

AKAI

MODEL **DX-57**

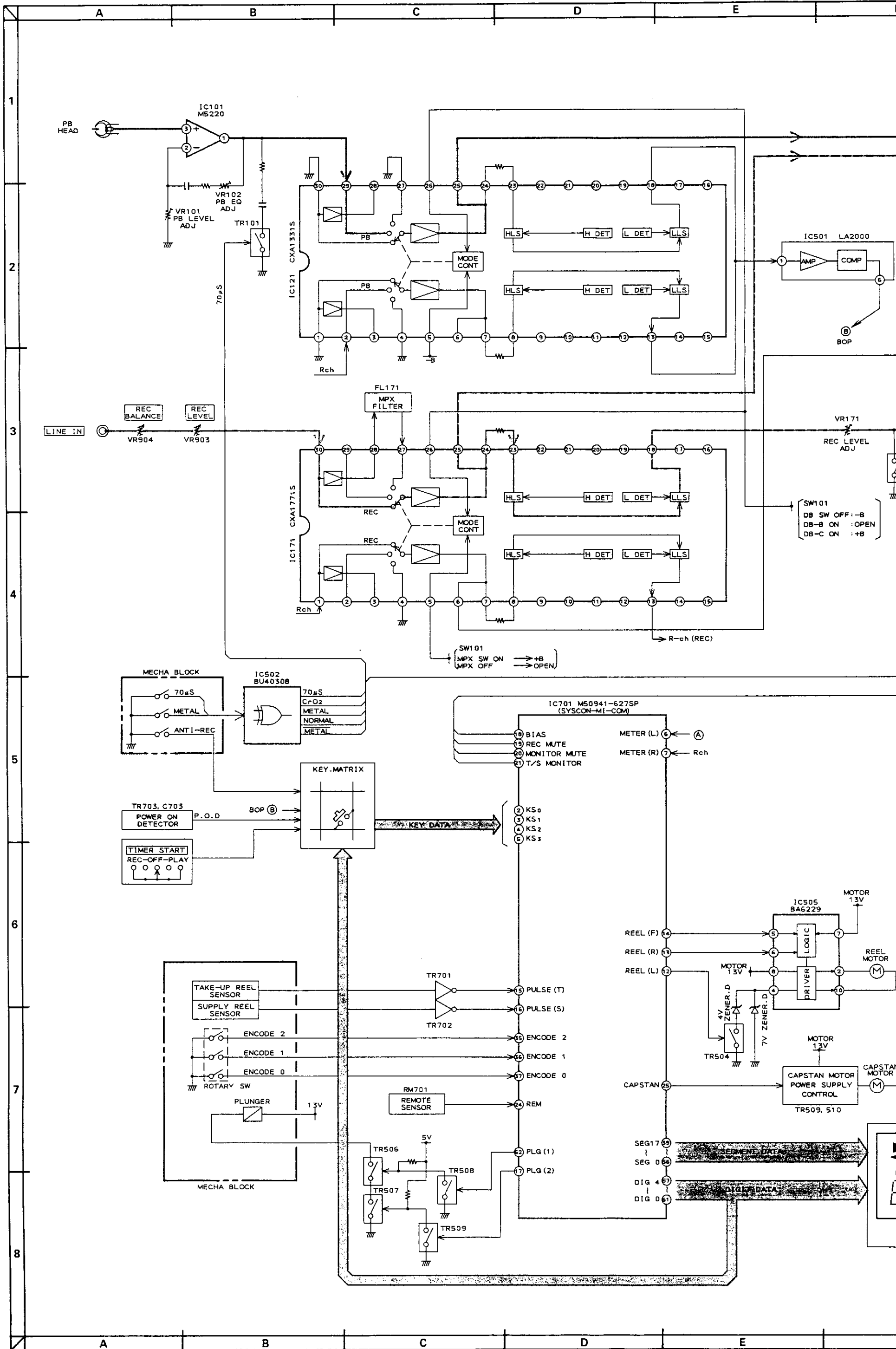
MODEL **GX-67**

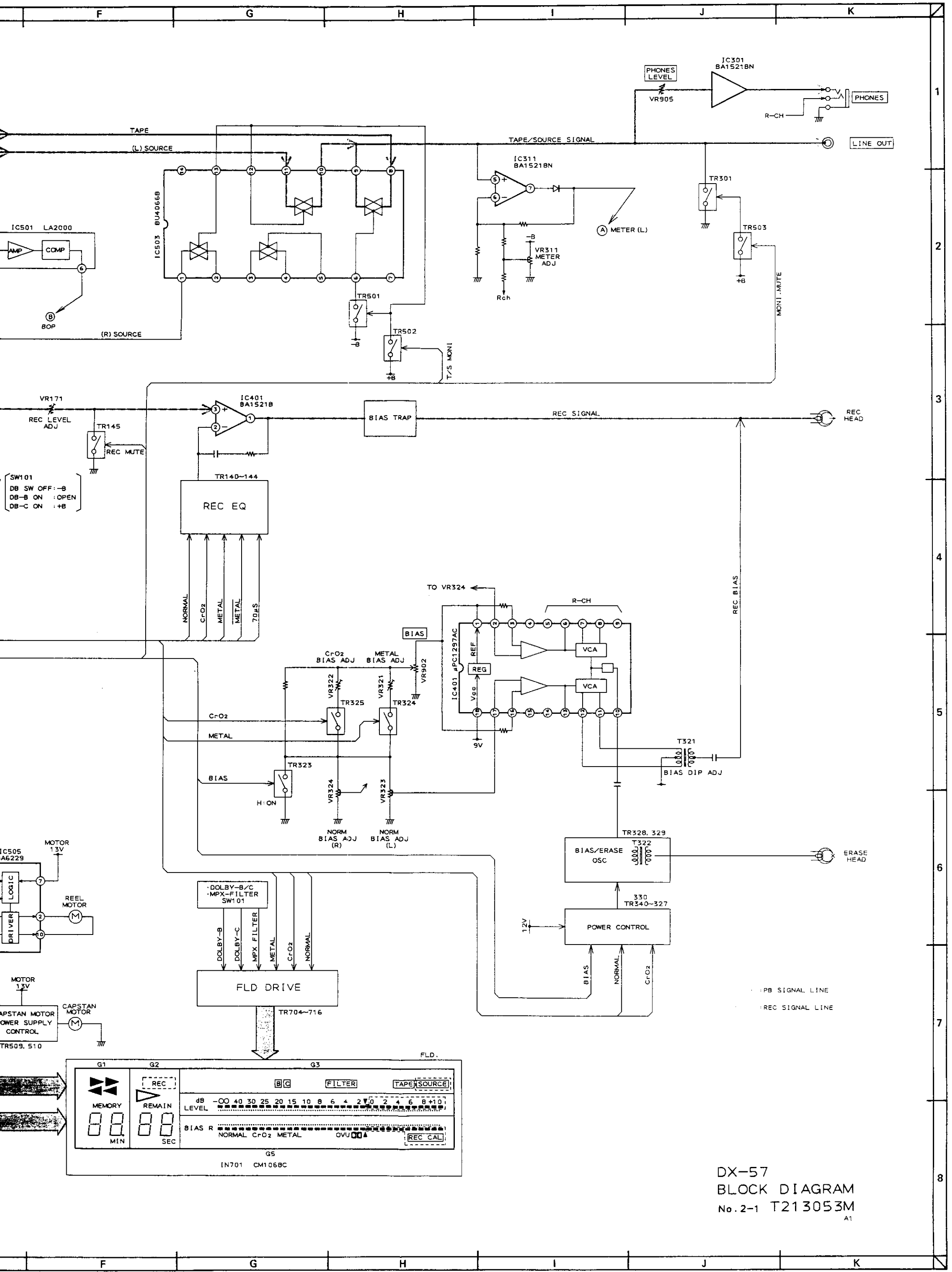
SCHEMATIC DIAGRAMS AND PC BOARDS

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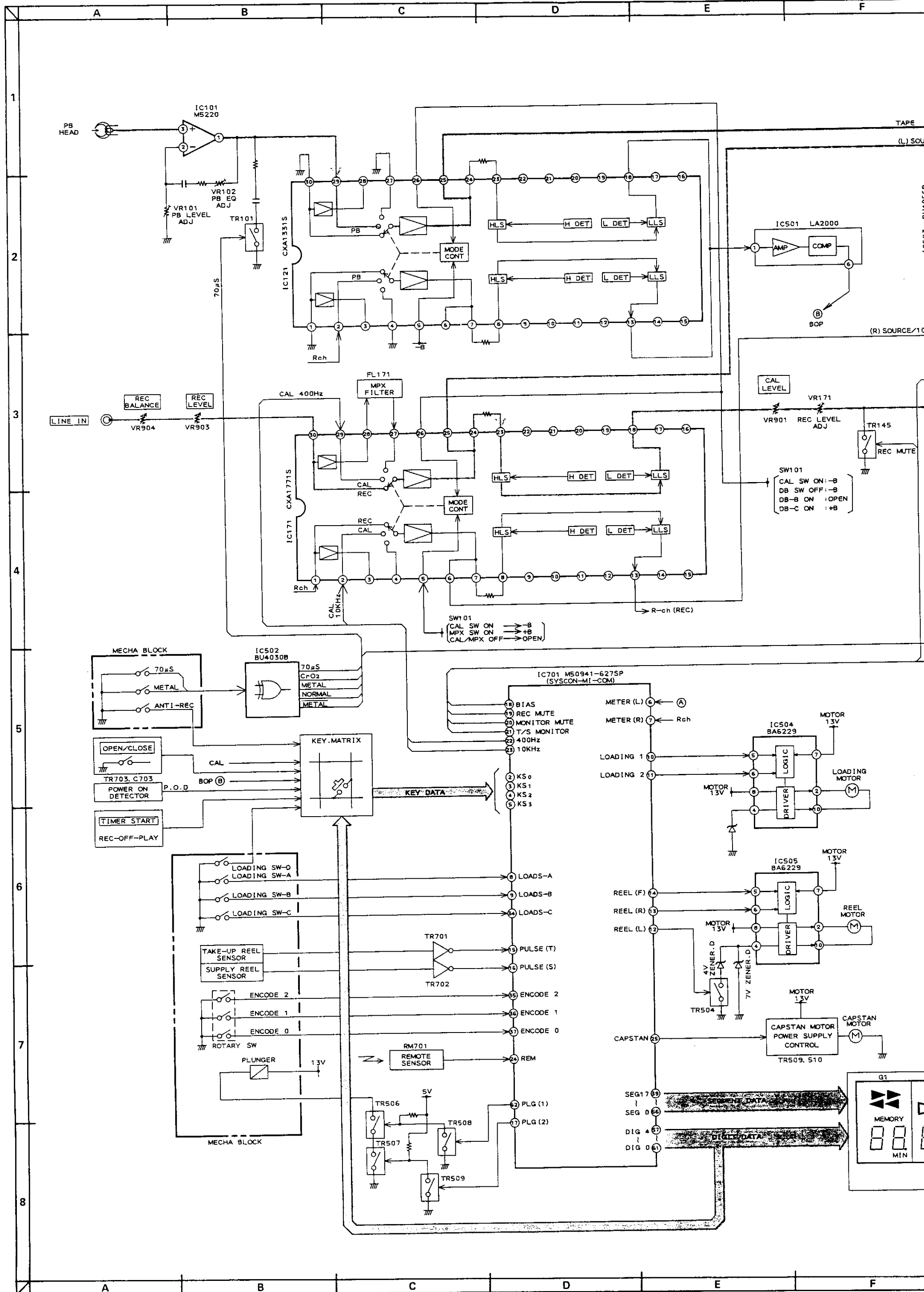
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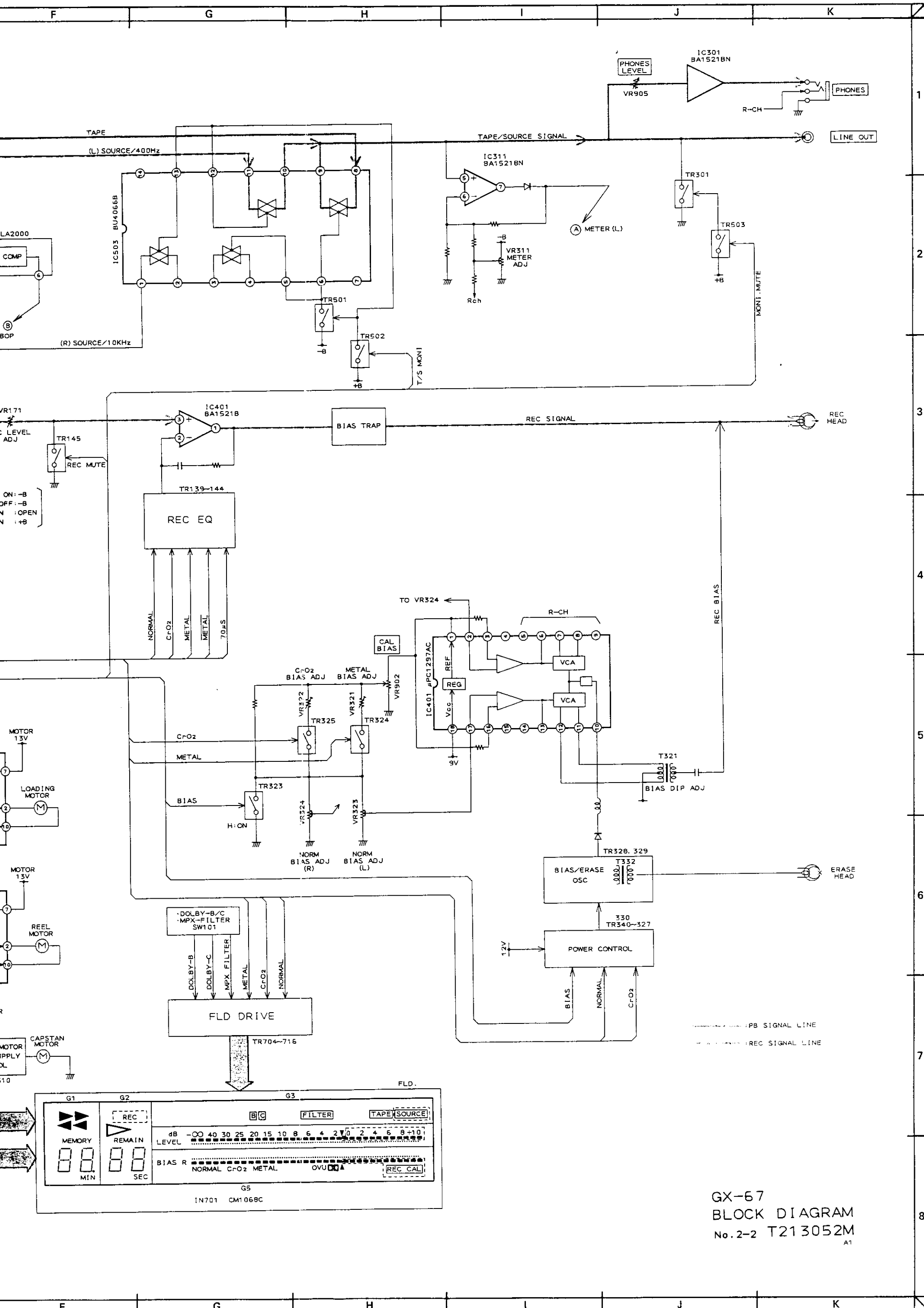
Use these schematic diagrams and PC boards together with the provided service manual.



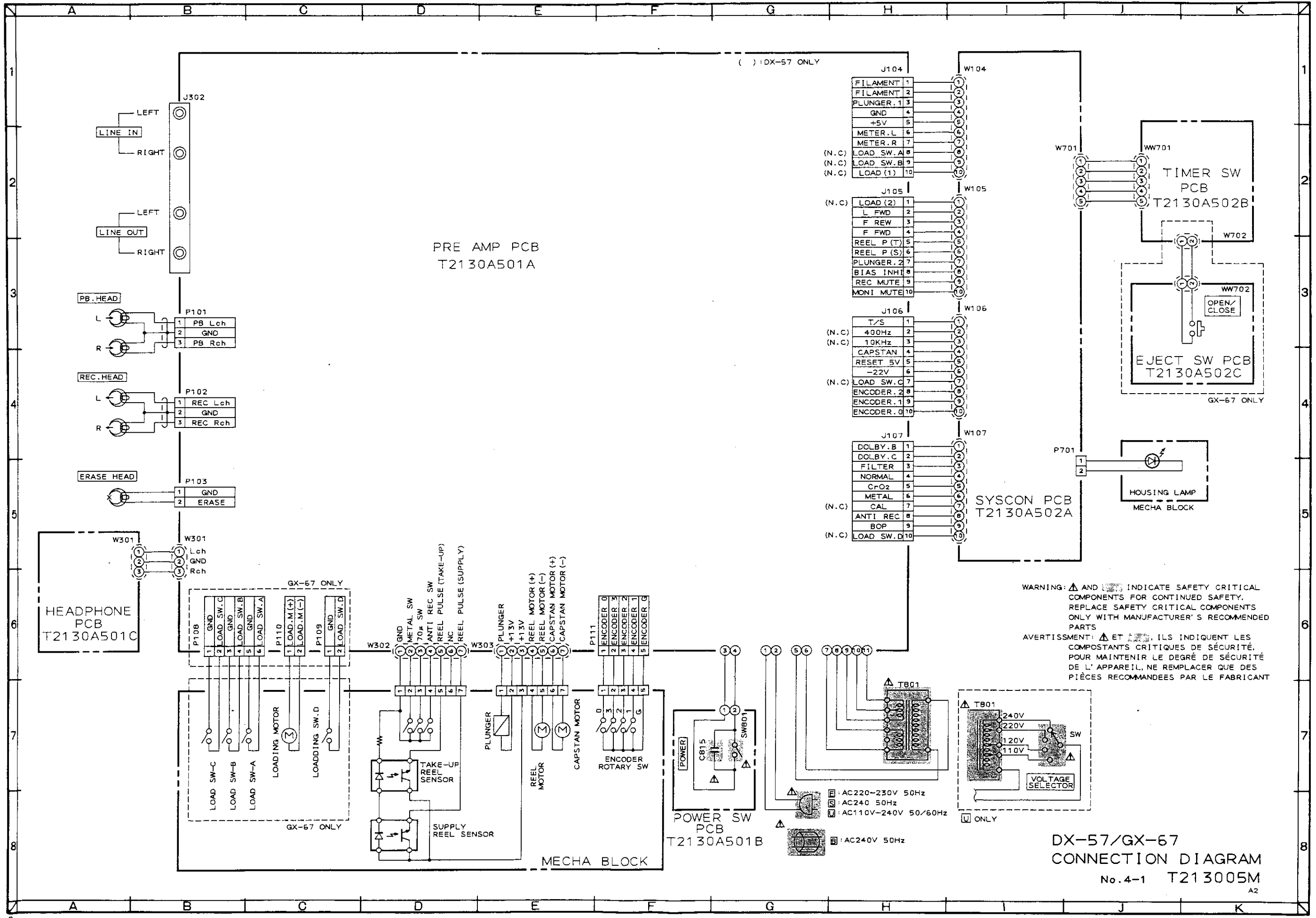


DX-57
BLOCK DIAGRAM
No. 2-1 T213053M
A1





GX-67
 BLOCK DIAGRAM
 No. 2-2 T213052M
 A1



PRE AMP PCB
T2130A501A

HEADPHONE
PCB
T2130A501C

POWER SW
PCB
T2130A501B

SYSCON PCB
T2130A502A

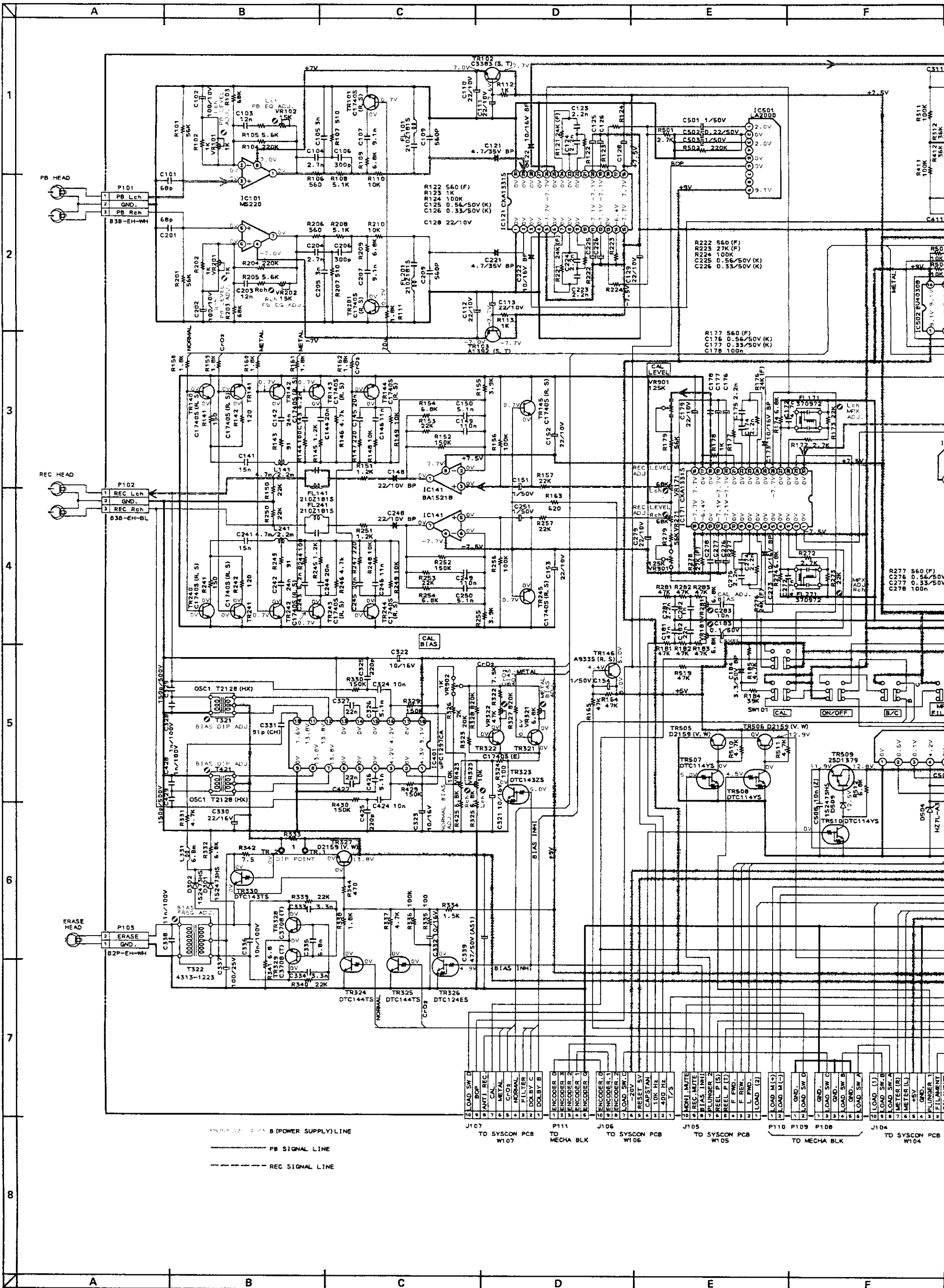
TIMER SW
PCB
T2130A502B

EJECT SW PCB
T2130A502C

WARNING: ⚠ AND ⚡ INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
AVERTISSEMENT: ⚠ ET ⚡ ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

- Ⓛ AC220-230V 50Hz
- Ⓜ AC240 50Hz
- Ⓨ AC110V-240V 50/60Hz
- Ⓩ ONLY
- ⓐ AC240V 50Hz

DX-57/GX-67
CONNECTION DIAGRAM
No. 4-1 T213005M
A2



--- B (POWER SUPPLY) LINE

— PB SIGNAL LINE

--- REC SIGNAL LINE

J107 TO SYSCON PCB W107
 P111 TO MECHA BLK
 J106 TO SYSCON PCB W106
 J105 TO SYSCON PCB W105
 P110 P109 P108 TO MECHA BLK
 J104 TO SYSCON PCB W104

LOAD SW C
 MONI MUTE
 REC. MUTE
 BIAS INTI
 PLUNGER 2
 REEL P (S)
 REEL P (T)
 F. REV.
 L. P.M.
 LOAD (2)
 LOAD M(L)
 GND.
 LOAD SW D
 LOAD SW C
 GND.
 LOAD SW E
 GND.
 LOAD SW A
 GND.
 LOAD (1)
 LOAD SW B
 LOAD SW A
 METER (R)
 METER (L)
 +5V
 GND.
 PLUNGER 1
 FILAMENT
 F. P.M.

TR324 DTC144TS
 TR325 DTC144TS
 TR326 DTC124ES
 TR327 DTC144TS
 TR328 DTC144TS
 TR329 DTC144TS
 TR330 DTC144TS
 TR331 DTC144TS
 TR332 DTC144TS
 TR333 DTC144TS
 TR334 DTC144TS
 TR335 DTC144TS
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 TR343 DTC144TS
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 TR345 DTC144TS
 TR346 DTC144TS
 TR347 DTC144TS
 TR348 DTC144TS
 TR349 DTC144TS
 TR350 DTC144TS

OSC1 T2128 (HX)
 OSC2 T2128 (HX)
 OSC3 T2128 (HX)
 OSC4 T2128 (HX)
 OSC5 T2128 (HX)
 OSC6 T2128 (HX)
 OSC7 T2128 (HX)
 OSC8 T2128 (HX)
 OSC9 T2128 (HX)
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 OSC28 T2128 (HX)
 OSC29 T2128 (HX)
 OSC30 T2128 (HX)

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 TR169 A9335 (R. S.)
 TR170 A9335 (R. S.)

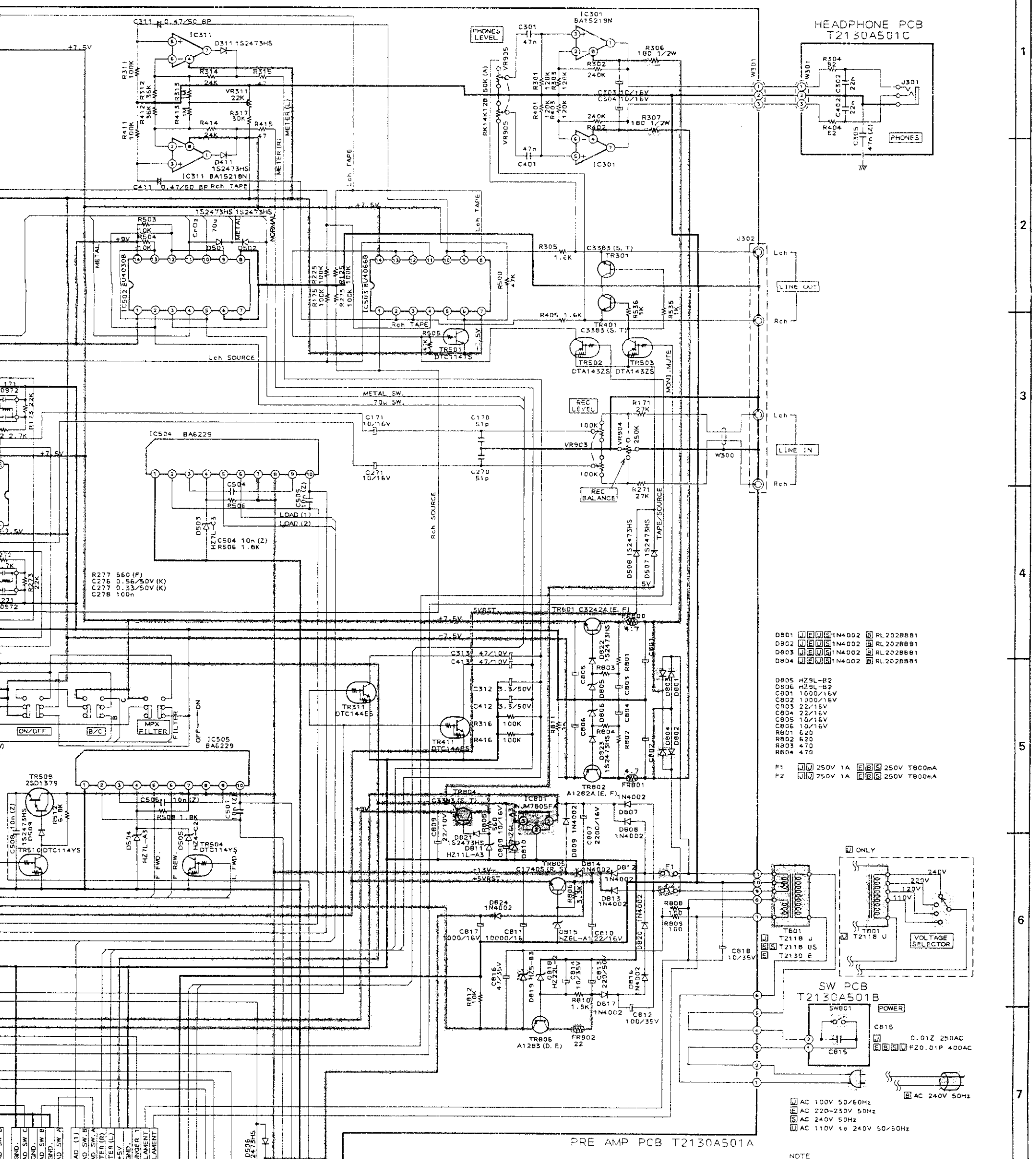
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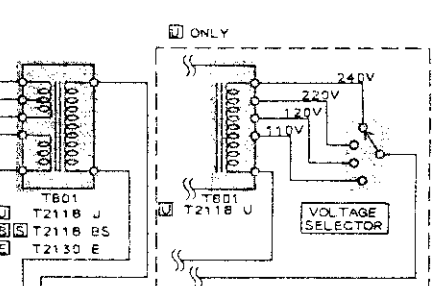
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 TR319 A9335 (R. S.)
 TR320 A9335 (R. S.)



- DB01 1N4002 RL2028881
- DB02 1N4002 RL2028881
- DB03 1N4002 RL2028881
- DB04 1N4002 RL2028881
- DB05 HZ9L-B2
- DB06 HZ9L-B2
- CB01 1000/16V
- CB02 1000/16V
- CB03 22/16V
- CB04 22/16V
- CB05 10/16V
- CB06 10/16V
- RB01 520
- RB02 520
- RB03 470
- RB04 470
- F1 250V 1A 250V T800mA
- F2 250V 1A 250V T800mA



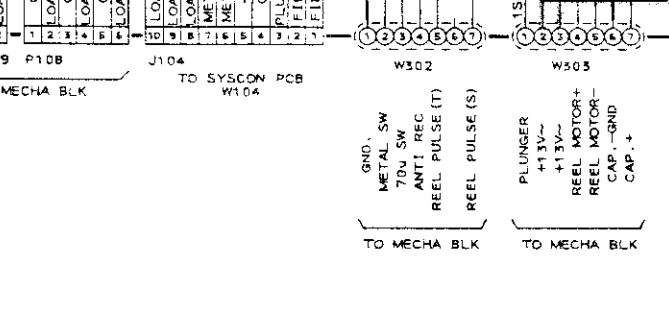
- AC 100V 50/60Hz
- AC 220-230V 50Hz
- AC 240V 50Hz
- AC 110V to 240V 50/60Hz

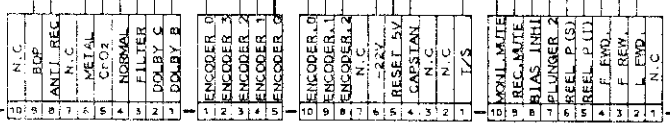
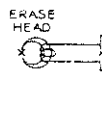
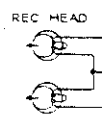
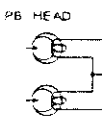
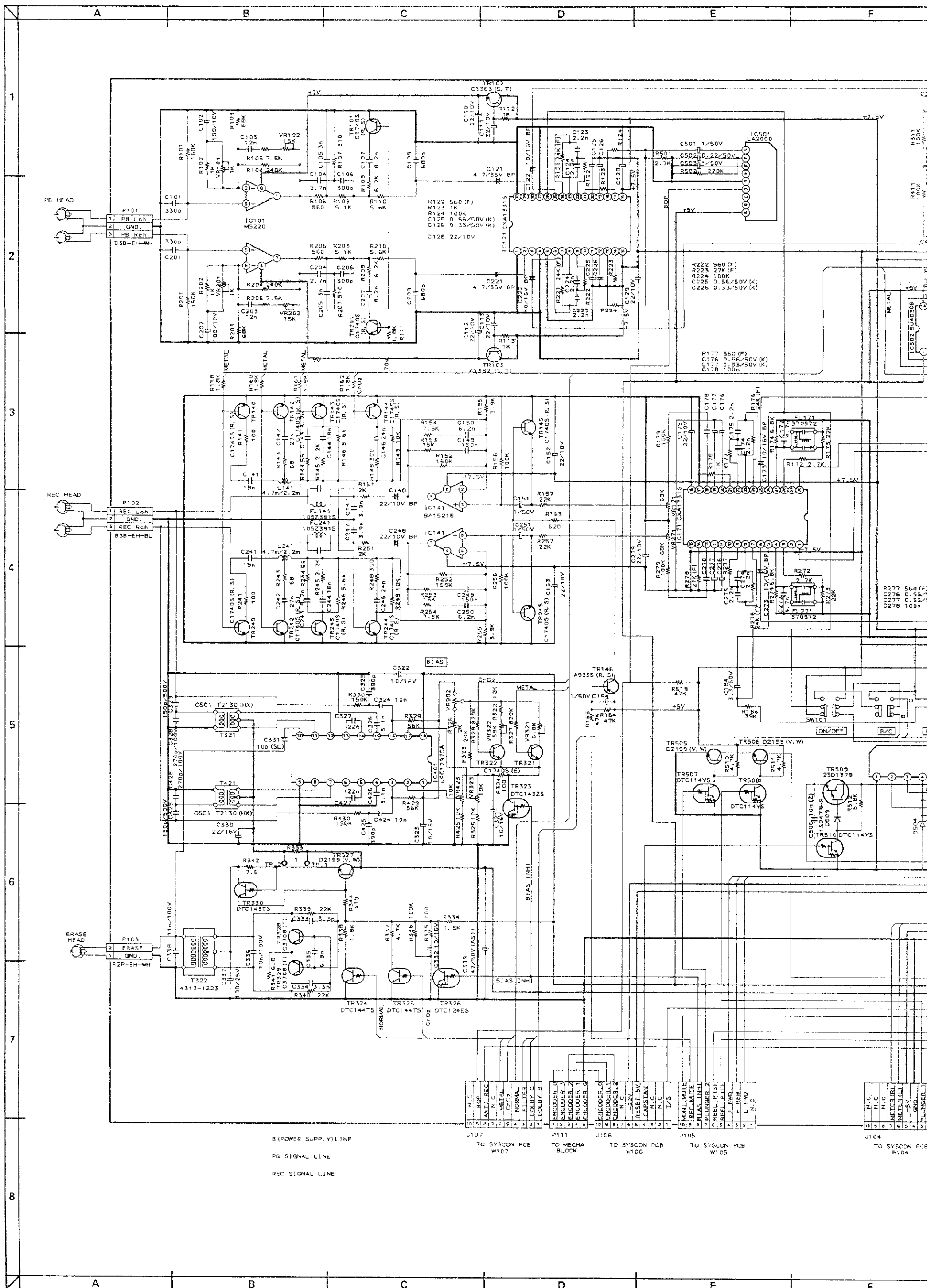
NOTE
 UNLESS OTHERWISE SPECIFIED,
 ALL RESISTORS IN OHMS 1/4W(J)
 ALL CAPACITORS IN μ F
 INDICATE EXAMPLE ABOUT HOW TO
 DESCRIBE CAPACITOR VALUE.
 47n SHOWS 0.047 μ F
 (n=10⁻⁹ μ F)

WARNING: AND INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT: ET ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

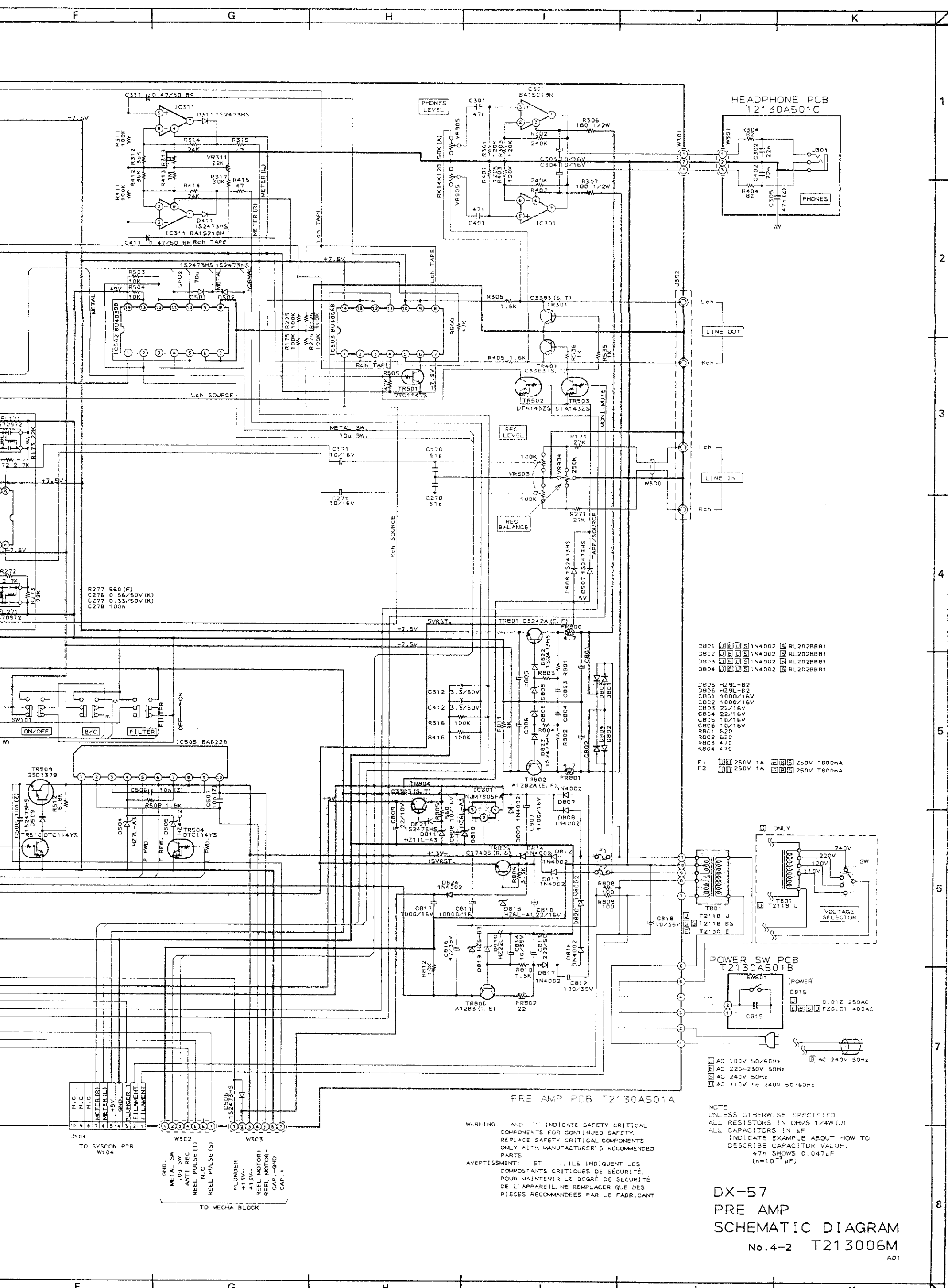
GX-67
PRE AMP
SCHEMATIC DIAGRAM
 No.4-3 T213007M
 A01



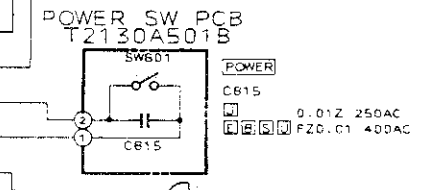
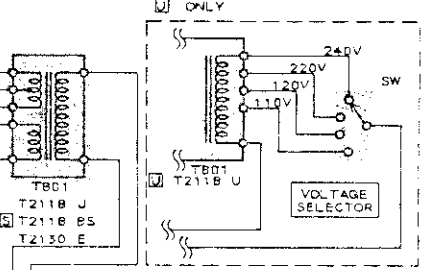


B (POWER SUPPLY) LINE
PB SIGNAL LINE
REC SIGNAL LINE

C107 TO SYSCON PCB W107
P111 TO MECHA BLOCK
J106 TO SYSCON PCB W106
J105 TO SYSCON PCB W105
J104 TO SYSCON PCB W104



- D801 1N4002 RL 2028881
- D802 1N4002 RL 2028881
- D803 1N4002 RL 2028881
- D804 1N4002 RL 2028881
- D805 H29L-B2
- D806 H29L-B2
- C801 1000/16V
- C802 1000/16V
- C803 22/16V
- C804 22/16V
- C805 10/16V
- C806 10/16V
- R801 620
- R802 620
- R803 470
- R804 470
- F1 250V 1A
- F2 250V 1A

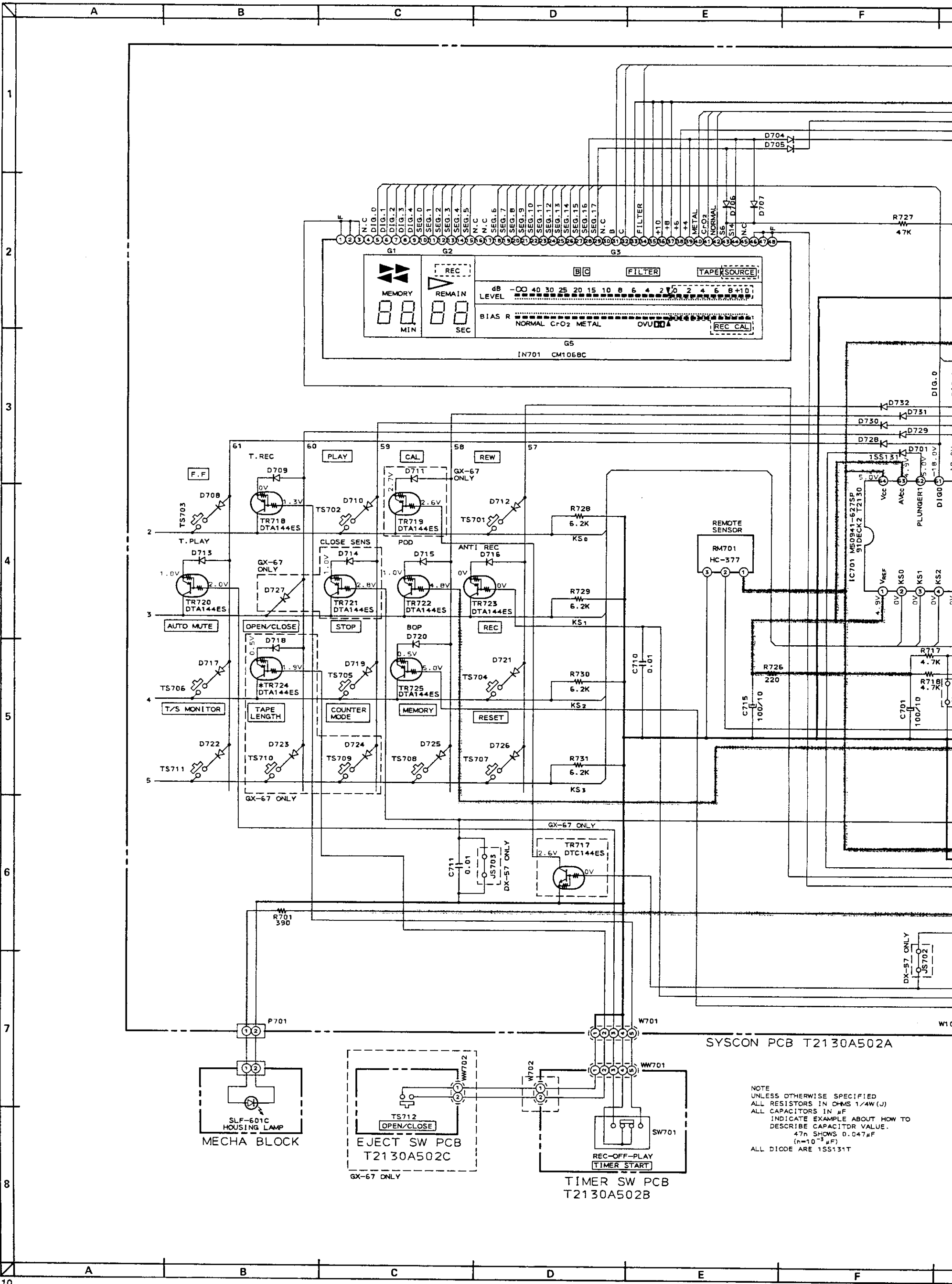


- AC 100V 50/60Hz
- AC 220-230V 50Hz
- AC 240V 50Hz
- AC 110V to 240V 50/60Hz

WARNING: AND INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.

AVERTISSEMENT: ET ILS INDIQUENT LES COMPOSANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT.

DX-57
PRE AMP
SCHEMATIC DIAGRAM
No. 4-2 T213006M
AD1



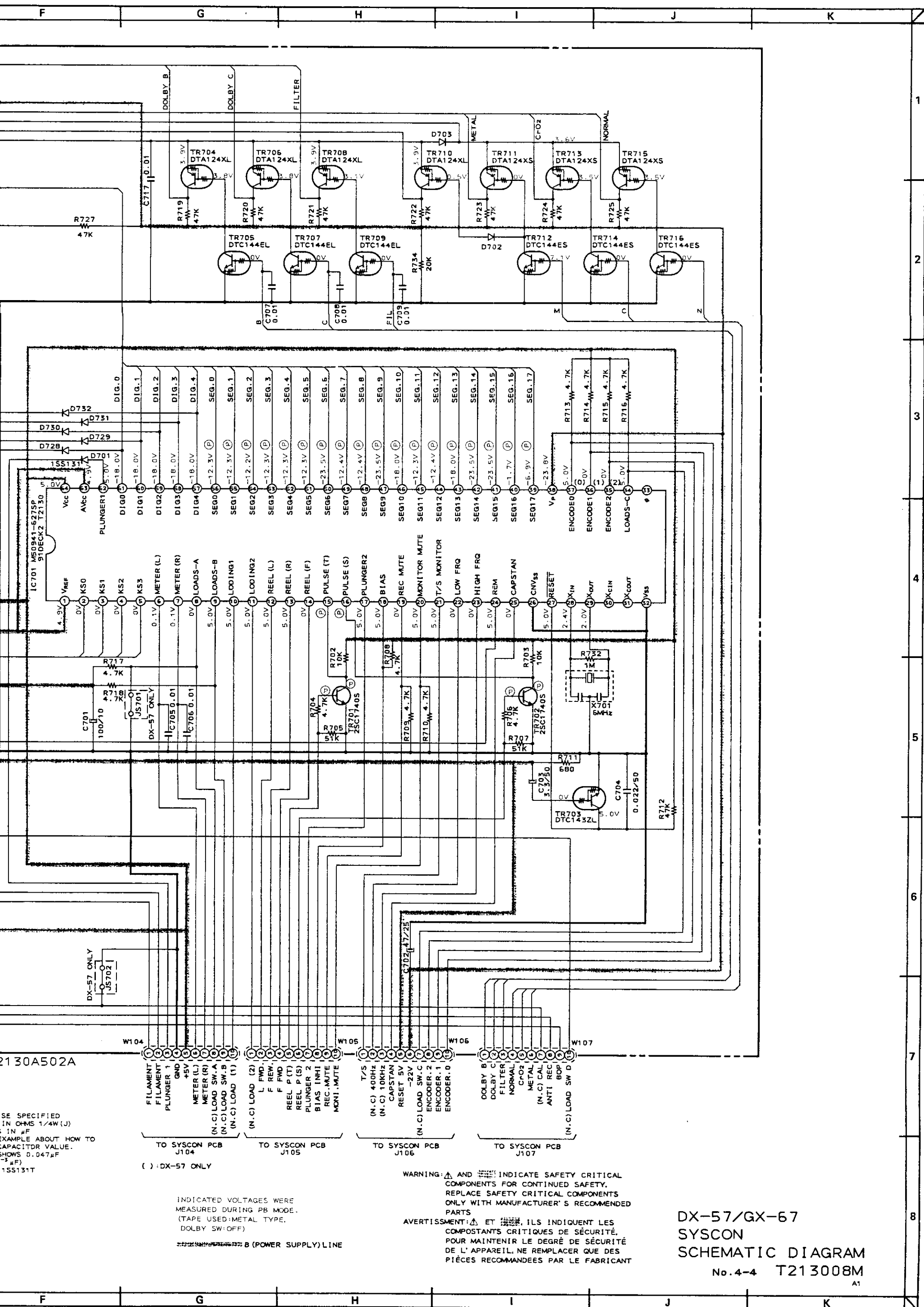
SYSCON PCB T2130A502A

NOTE
 UNLESS OTHERWISE SPECIFIED
 ALL RESISTORS IN OHMS 1/4W(J)
 ALL CAPACITORS IN μ F
 INDICATE EXAMPLE ABOUT HOW TO
 DESCRIBE CAPACITOR VALUE.
 47n SHOWS 0.047 μ F
 (n=10⁻⁹ μ F)
 ALL DIODE ARE 1SS131T

MECHA BLOCK
 SLF-601C
 HOUSING LAMP

EJECT SW PCB
 T2130A502C
 TS712
 OPEN/CLOSE
 GX-67 ONLY

TIMER SW PCB
 T2130A502B
 SW701
 REC-OFF-PLAY
 TIMER START



SE SPECIFIED
IN OHMS 1/4W(J)
IN #F
EXAMPLE ABOUT HOW TO
CAPACITOR VALUE.
SHOWS 0.047#F
#F)
155131T

() : DX-57 ONLY

INDICATED VOLTAGES WERE
MEASURED DURING PB MODE.
(TAPE USED: METAL TYPE,
DOLBY SW: OFF)

***** B (POWER SUPPLY) LINE

WARNING: Δ AND \square INDICATE SAFETY CRITICAL
COMPONENTS FOR CONTINUED SAFETY.
REPLACE SAFETY CRITICAL COMPONENTS
ONLY WITH MANUFACTURER'S RECOMMENDED
PARTS

AVERTISSEMENT: Δ ET \square ILS INDIQUENT LES
COMPOSANTS CRITIQUES DE SÉCURITÉ.
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ
DE L'APPAREIL, NE REMPLACER QUE DES
PIÈCES RECOMMANDÉES PAR LE FABRICANT

DX-57/GX-67
SYSCON
SCHEMATIC DIAGRAM
No. 4-4 T213008M
A1

PRINCIPAL PARTS LOCATION

ICS

C101	E1,2	TR142	D3,4
C121	C1	TR143	C3,4
C141	C3	TR144	C3,4
IC171	E3	TR145	C3
IC301	G,H6	TR146	C5
IC311	A,B3	TR201	E1
C401	C5	TR240	93,4
C501	B1	TR241	83,4
C502	F4	(67 ONLY)	
C503	A2	TR242	93,4
IC504	F6	TR243	93,4
(67 ONLY)		TR244	C3,4
IC505	E6	TR245	C3
C801	34	TR301	A2

CONNECTORS

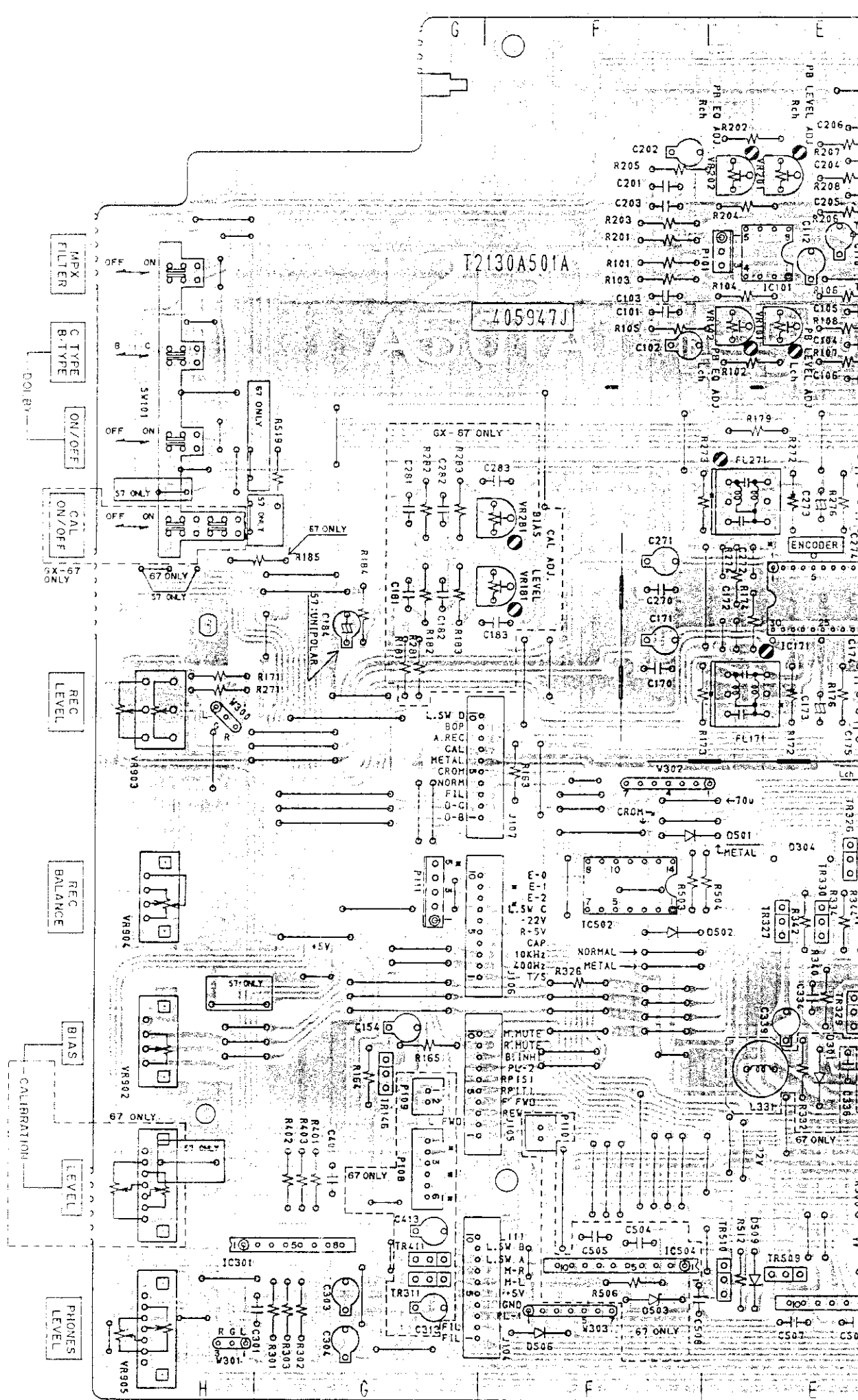
P101	E1,2
P102	C4
P103	D5
P108	G5,6
(67 ONLY)	
P109	G5
(67 ONLY)	
P110	F5
(67 ONLY)	
P111	G4
J104	F,G6
J105	F,G5
J106	F,G4,5
J107	F,G4
J302	A2,3

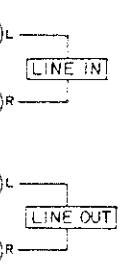
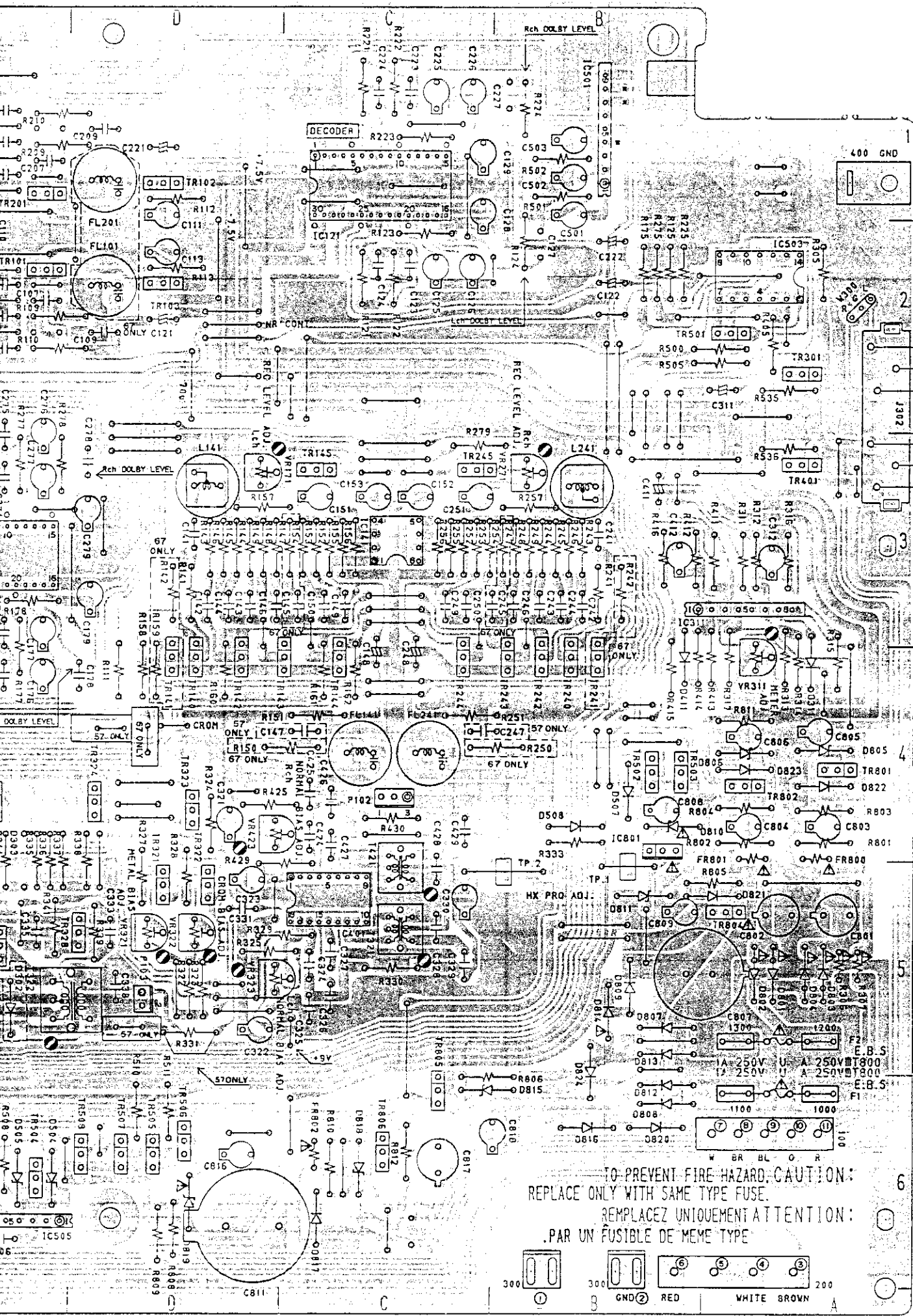
WIRES

W300	A2,H4
W301	H6
W302	F4
W303	F6

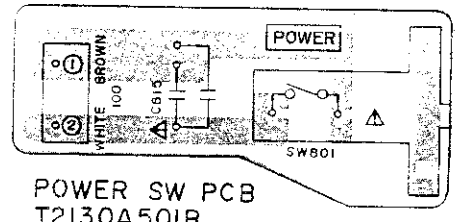
TRANSISTORS

TR101	E2	TR801	A4
TR102	D1	TR802	A4
TR103	D2	TR804	A5
TR140	D3,4	TR805	C6
TR141	D3,4	TR806	C6
(67 ONLY)			



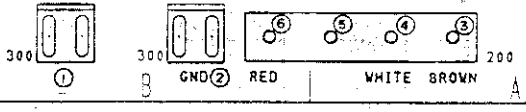


HEADPHONE PCB
T2130A501C



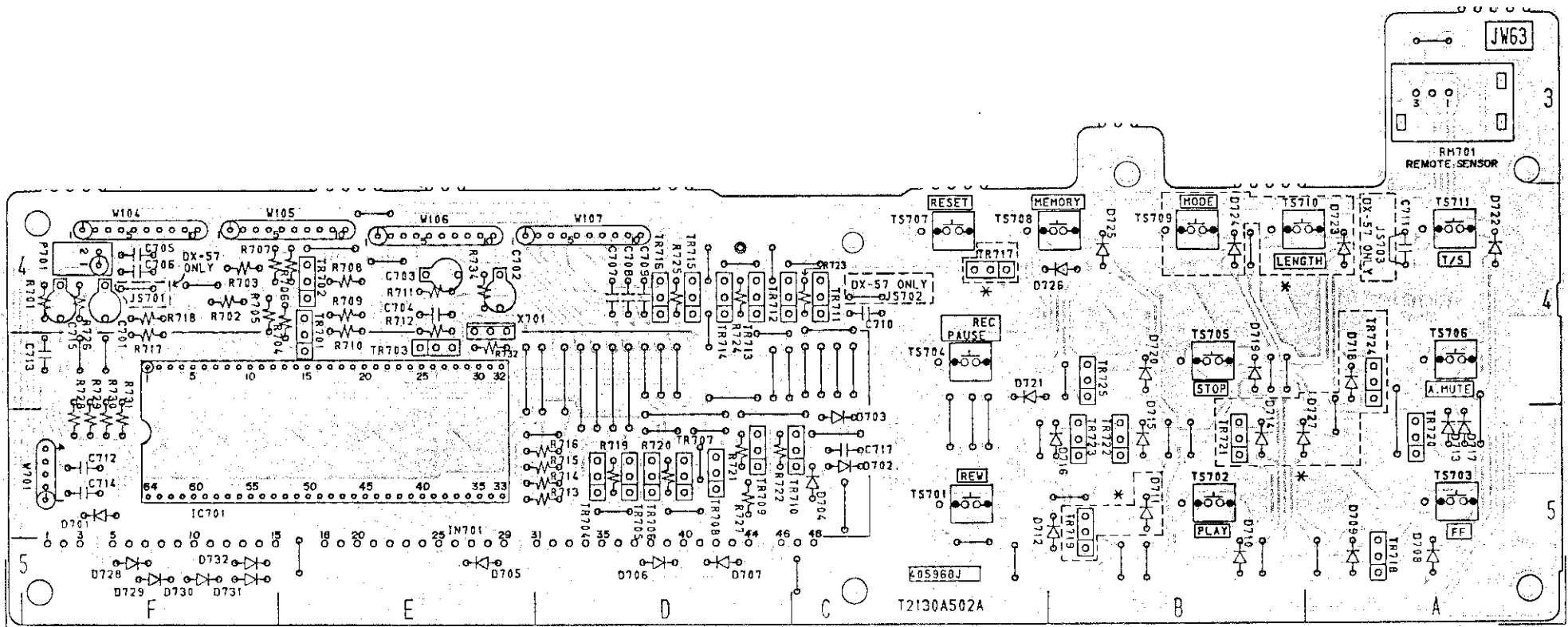
POWER SW PCB
T2130A501B

TO PREVENT FIRE HAZARD, CAUTION:
REPLACE ONLY WITH SAME TYPE FUSE.
REMPLEZ UNIQUEMENT ATTENTION:
PAR UN FUSIBLE DE MEME TYPE



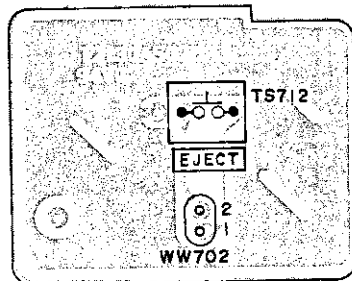
PRE AMP PCB T2130A501A1

WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS - FOR CONTINUED SAFETY, REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.
AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SECURITE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL, NE REMPLACER QUE DES PIECES RECOMMANDEES PAR LE FABRICANT

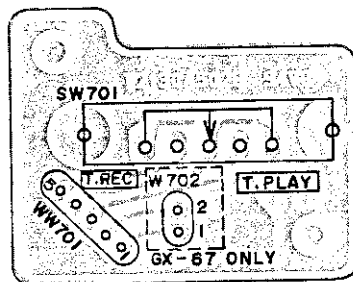


SYSCON PCB T2130A502A

* MARK ARE GX - 67 ONLY



EJECT SW PCB
T2130A502C
(GX-67 ONLY)



TIMER SW PCB
T2130A502B

ABBREVIATIONS (CASSETTE)

ABBREVIATION	EXPLANATION	ABBREVIATION	EXPLANATION
AC	Alternating Current	MIN	MINute
A/D	Analog/Digital	MML	Maximum Modulation Level
AF	Auto Fader	MOL	Maximum Output Level
AMP	AMPLifier	MPX	Multi PleX
AR	Anti Recording	NC	Not Connected (No Connection)
AT BIAS	Auto Turning BIAS	NFB	Negative Feed Back
ATT	ATTenuator	NORM	NORMal
BAL	BALance	NR	Noise Reduction
BEF	Band Elimination Filter	OSC	OSCillator (OSCillation)
BSS	Blank Search System	P	Pulse
CAP M	CAPstan Motor	PB	Play Back
CH	CHannel	QMSS	Quick Memory Search System
COMP	COMPARator	QR	Quick Reverse
CONT	CONTinuance	R CH	Right CHannel
CRLP	Computer Recording Level Processing	REC	RECord (RECording)
CS	Chip Select	REV	REVerse
D/A	Digital/Analog	ROT	ROTation
DC	Direct Current	REW	REWind
DET	DETECTOR	SEC	SECond
DISCRI	DISCRIminator	SELE	SELEctor
DUB	DUBbing	SENS	SENSitivity
EQ	EQUALizer	SEPP	Single Ended Push Pull
FF (or F.FWD)	Fast Foward	SIG	SIGNal
FLD	FLuorescent Display	SPECT	SPECTrum
FREQ	FREQUENCY	STD	STANdard
FWD	ForWarD	SW	SWitch
GND	GrouND	SYSCON	SYStem CONTrOl
H	High	TP	Test Point
HPF	High Pass Filter	TRIG	TRIGa
IND	INDicator	VCA	Voltage Control Attenuator
IPLS	Instant Program Location System	VOL	VOLume
L	Low	VOLT	VOLTage
L CH	Left CHannel	VR	Variable Resistor
LED	Light Emitting Diode	X'TAL	cysTAL
MEMO	MEMORy	X1	Normal speed
MICOM	MicroCOMputer	X2	Dubble speed