

# AKAI

MODEL **DX-57**

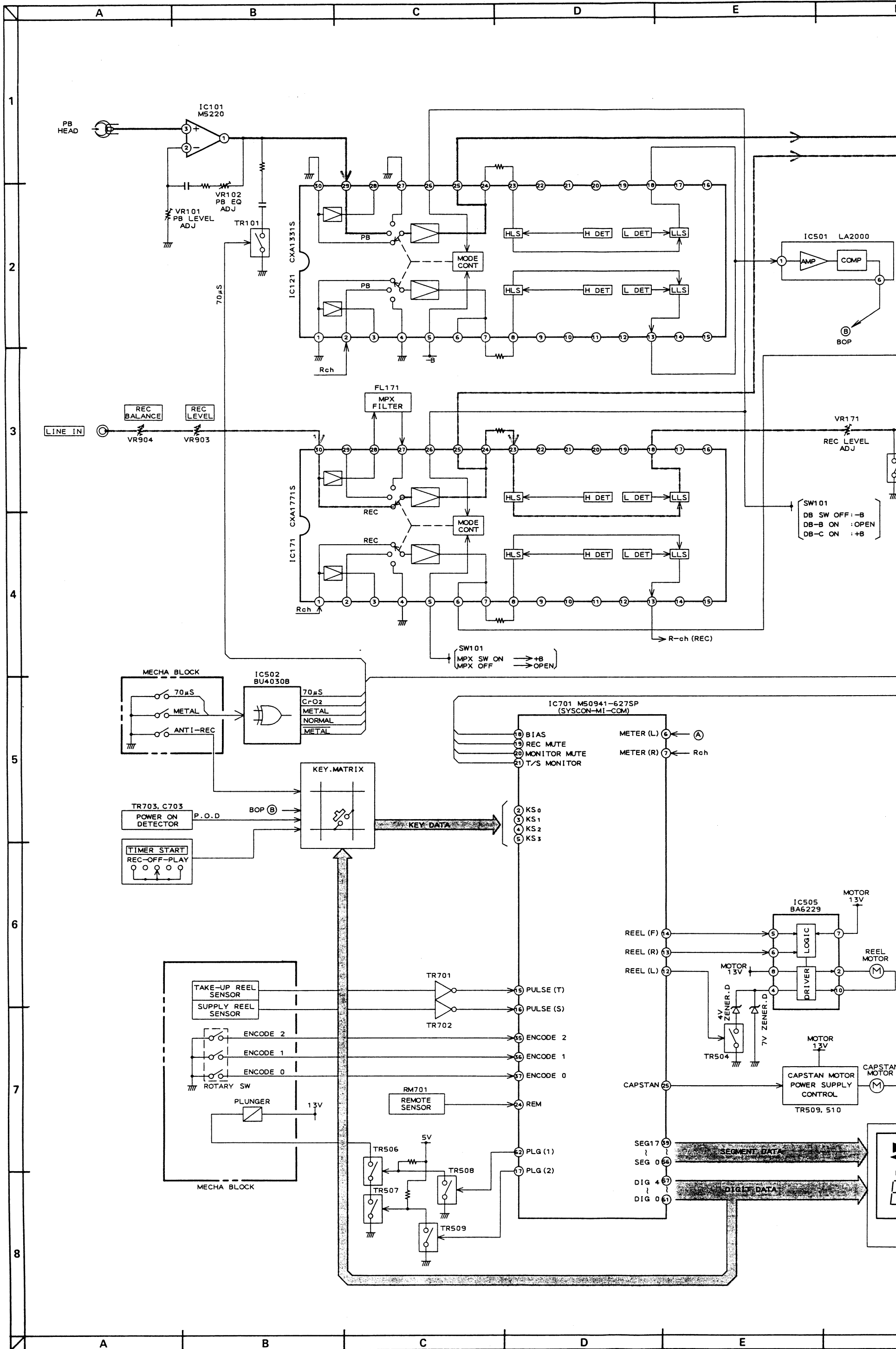
MODEL **GX-67**

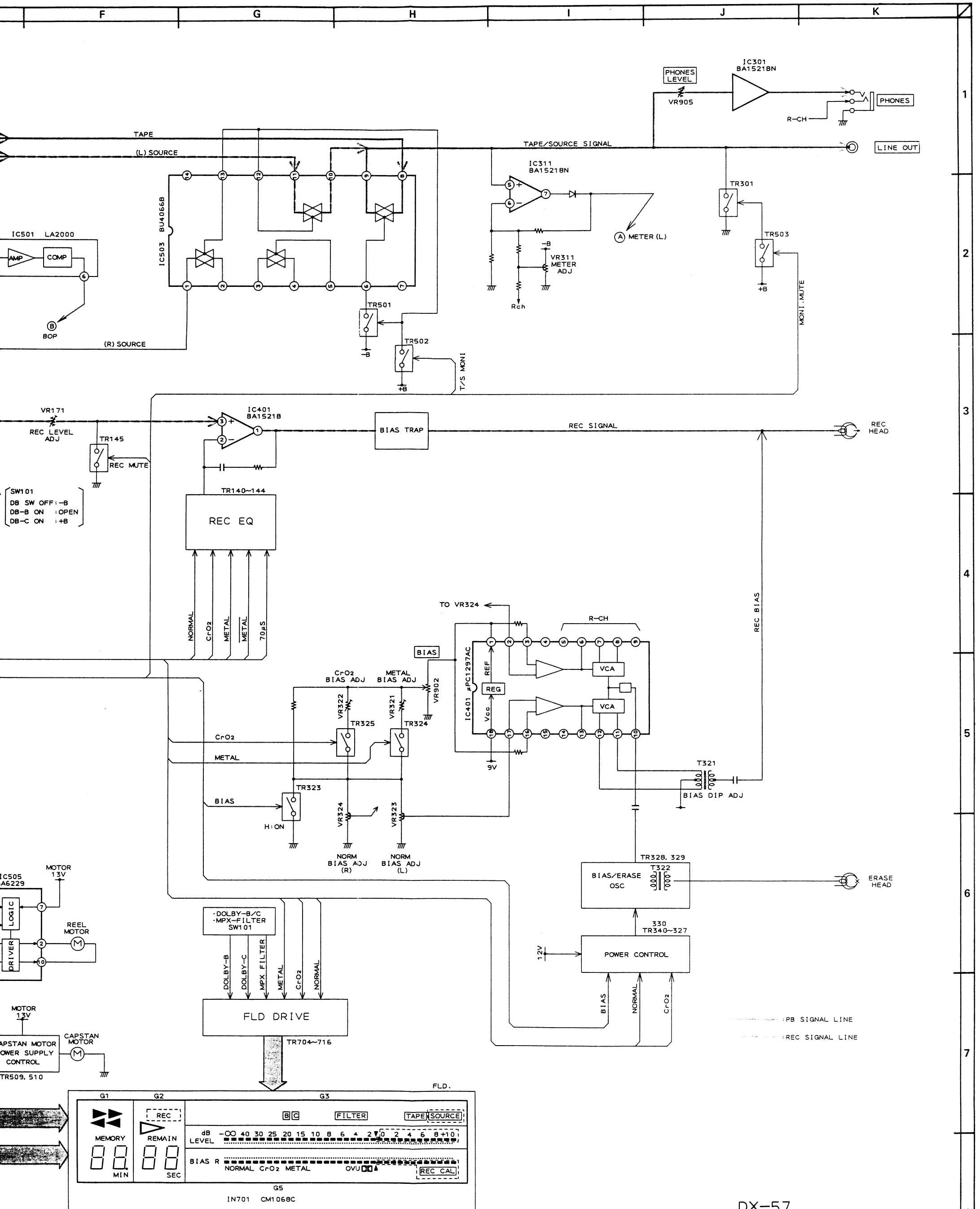
## SCHEMATIC DIAGRAMS AND PC BOARDS

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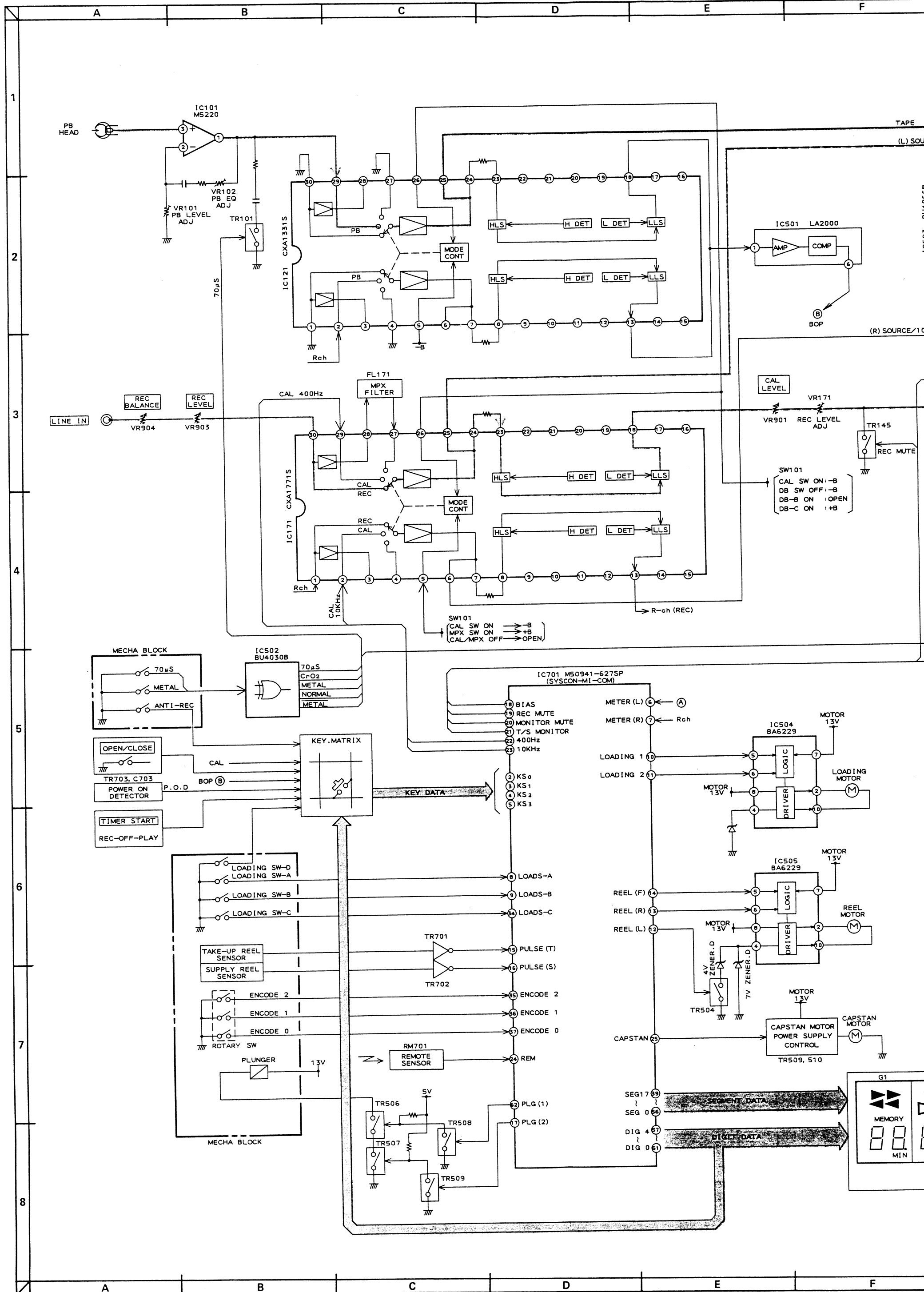
Use these schematic diagrams and PC boards together with the provided service manual.



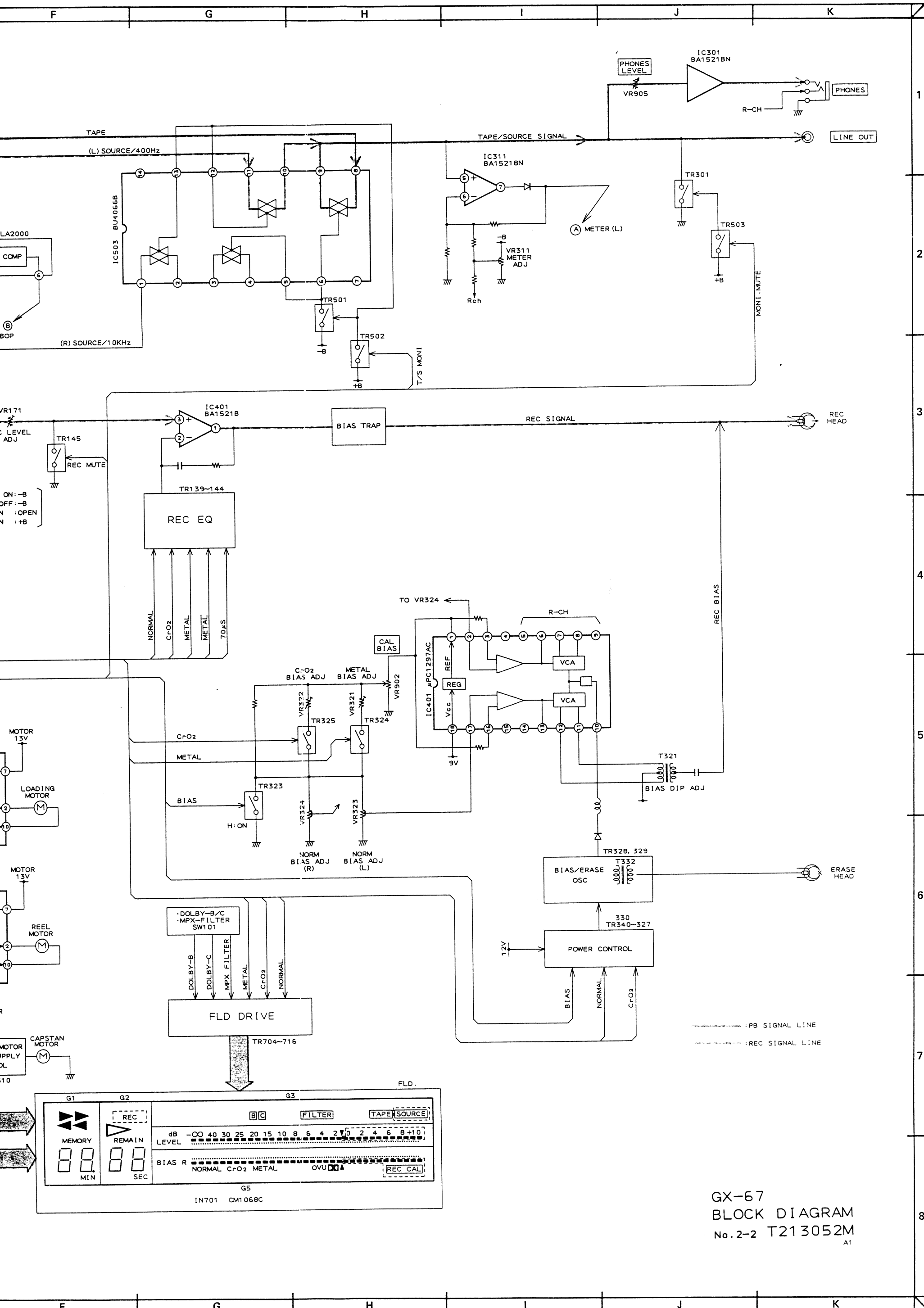


DX-57  
BLOCK DIAGRAM  
No. 2-1 T213053M  
A1

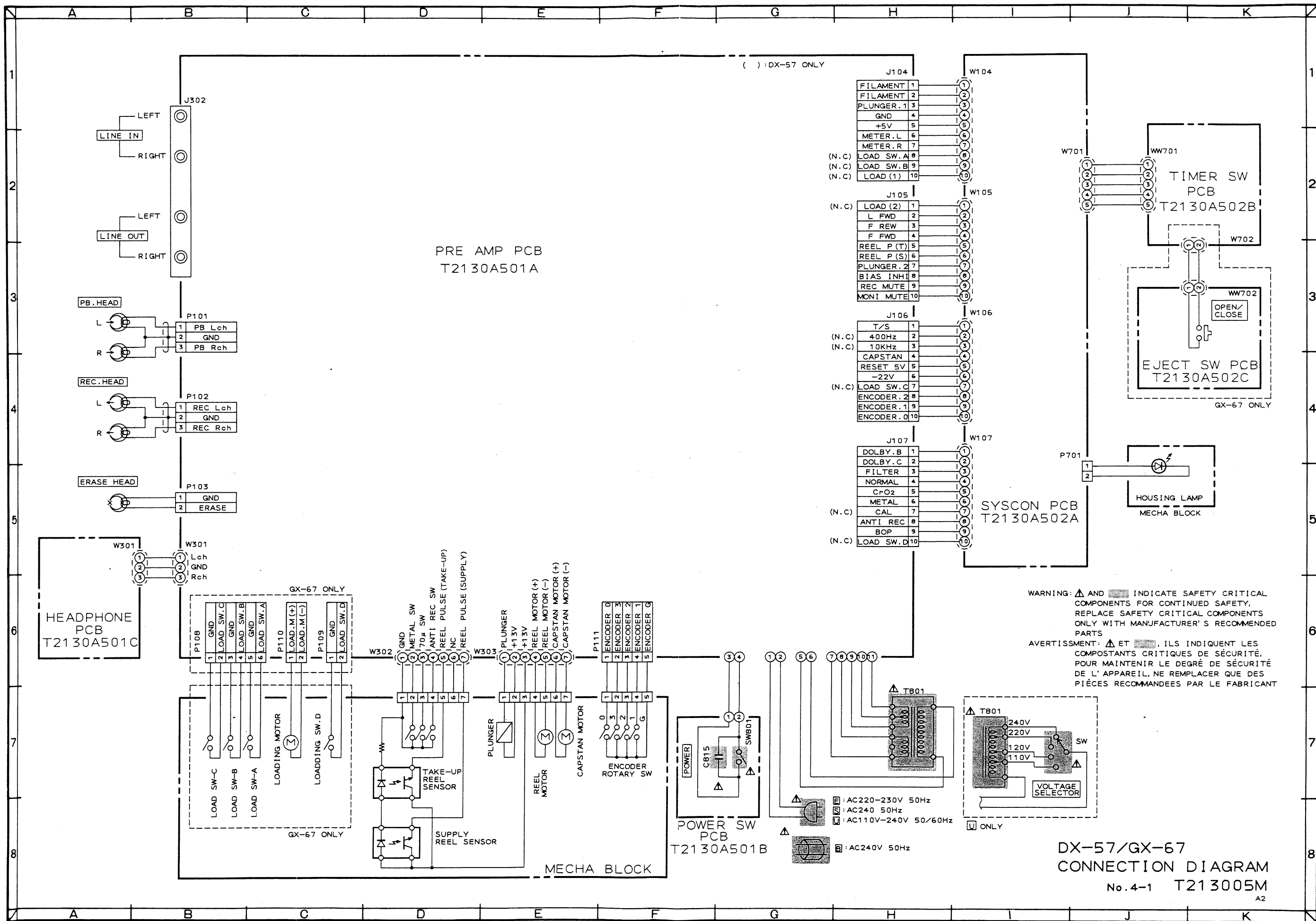
1  
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3







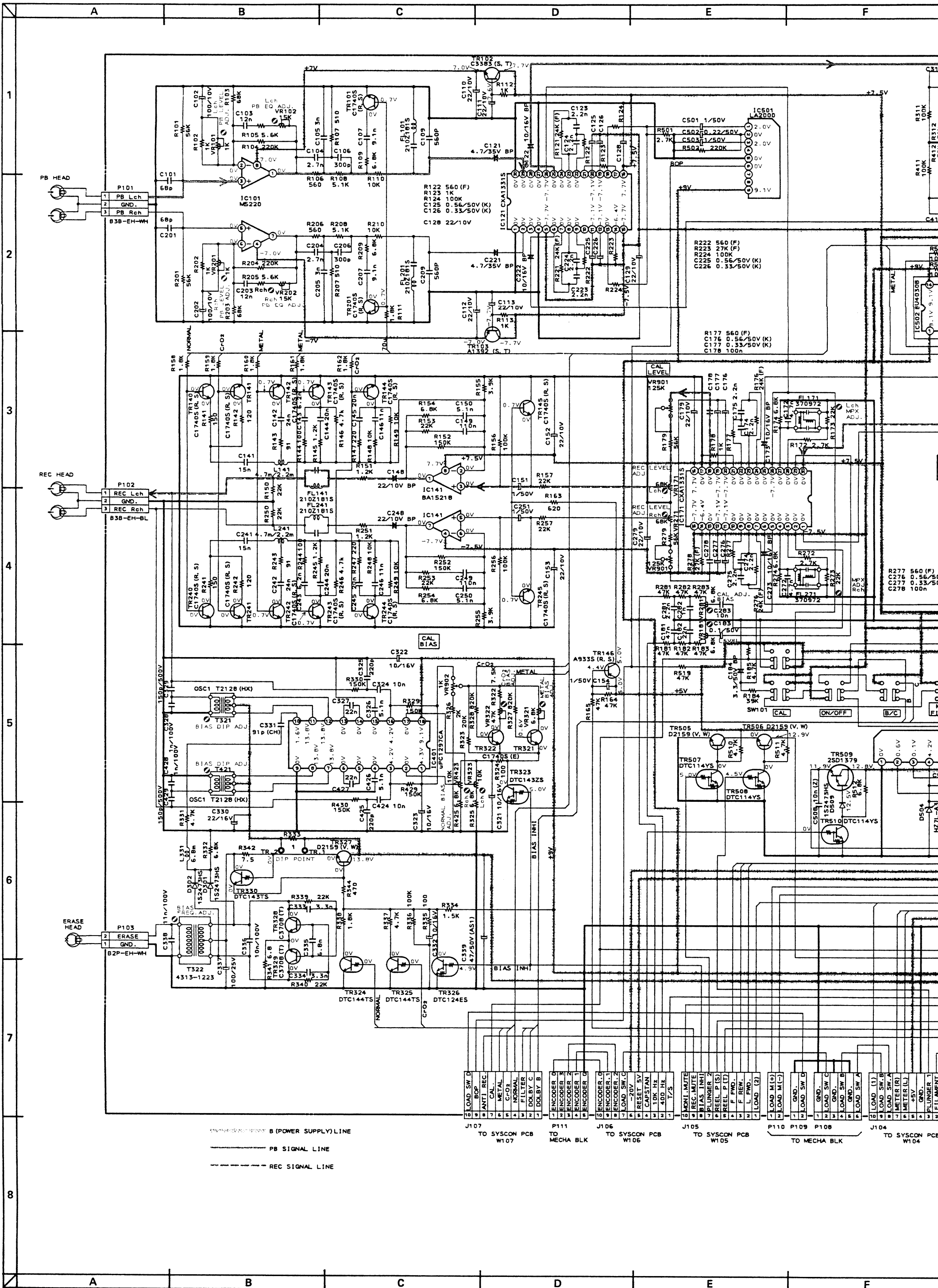
GX-67  
 BLOCK DIAGRAM  
 No. 2-2 T213052M  
 A1



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



B (POWER SUPPLY) LINE

PB SIGNAL LINE

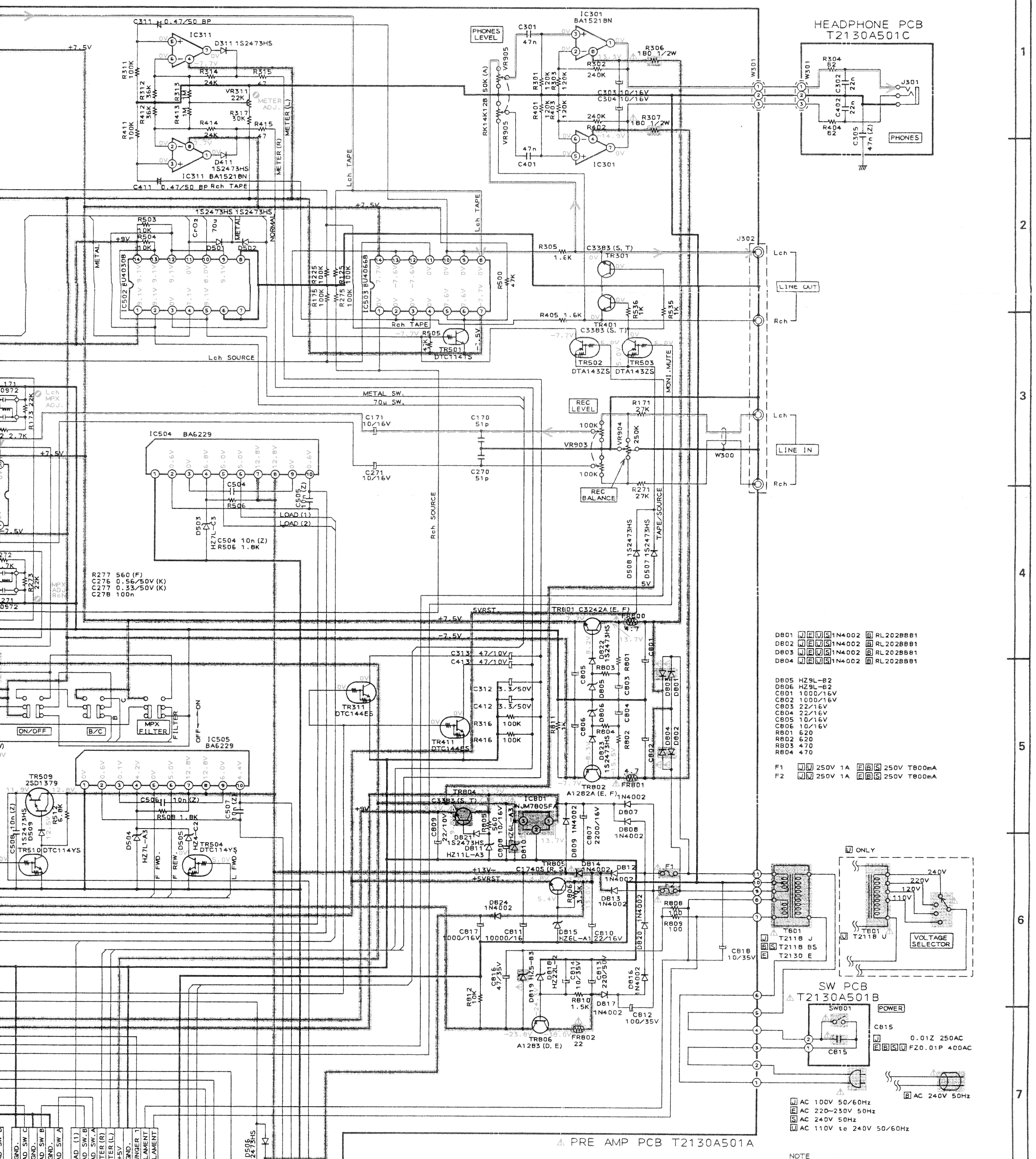
REC SIGNAL LINE

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

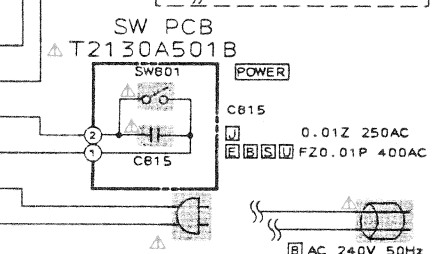
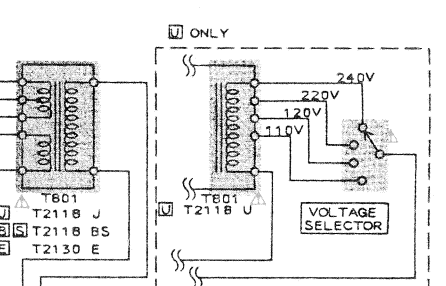
1  
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7  
8

A B C D E F

A B C D E F



- DB01 [Symbol] 1N4002 [Symbol] RL202BB81
- DB02 [Symbol] 1N4002 [Symbol] RL202BB81
- DB03 [Symbol] 1N4002 [Symbol] RL202BB81
- DB04 [Symbol] 1N4002 [Symbol] RL202BB81
  
- 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 620
- RB02 620
- RB03 470
- RB04 470
  
- F1 [Symbol] 250V 1A [Symbol] 250V T800mA
- F2 [Symbol] 250V 1A [Symbol] 250V T800mA



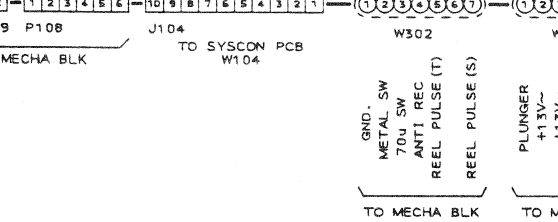
NOTE  
UNLESS OTHERWISE SPECIFIED  
ALL RESISTORS IN OHMS 1/4W(J)  
ALL CAPACITORS IN  $\mu$ F  
INDICATE EXAMPLE ABOUT HOW TO  
DESCRIBE CAPACITOR VALUE.  
47n SHOWS 0.047 $\mu$ F  
(n=10<sup>-3</sup>  $\mu$ F)

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

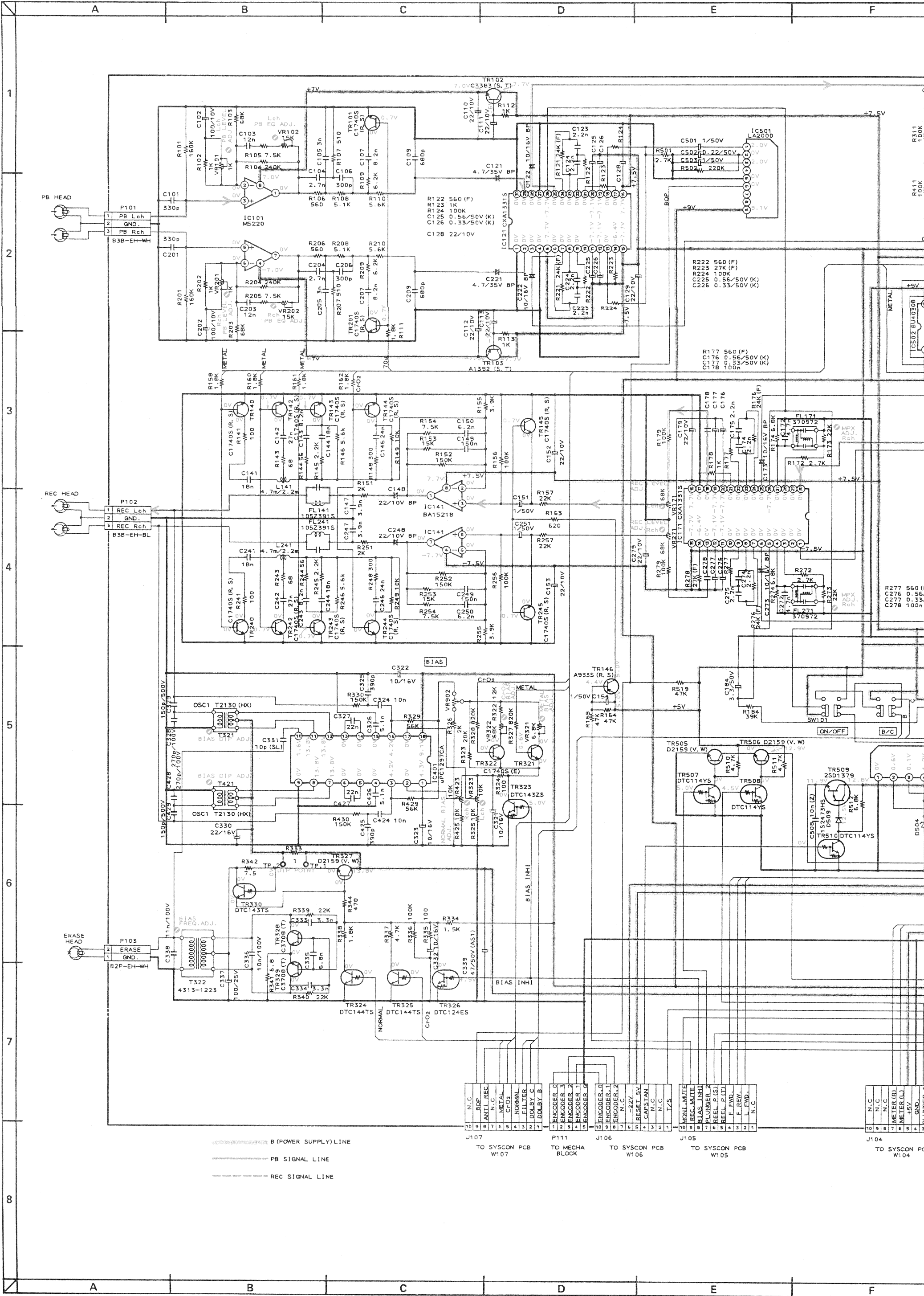
WARNING:  $\Delta$  AND  $\square$  INDICATE SAFETY CRITICAL  
COMPONENTS FOR CONTINUED SAFETY.  
REPLACE SAFETY CRITICAL COMPONENTS  
ONLY WITH MANUFACTURER'S RECOMMENDED  
PARTS

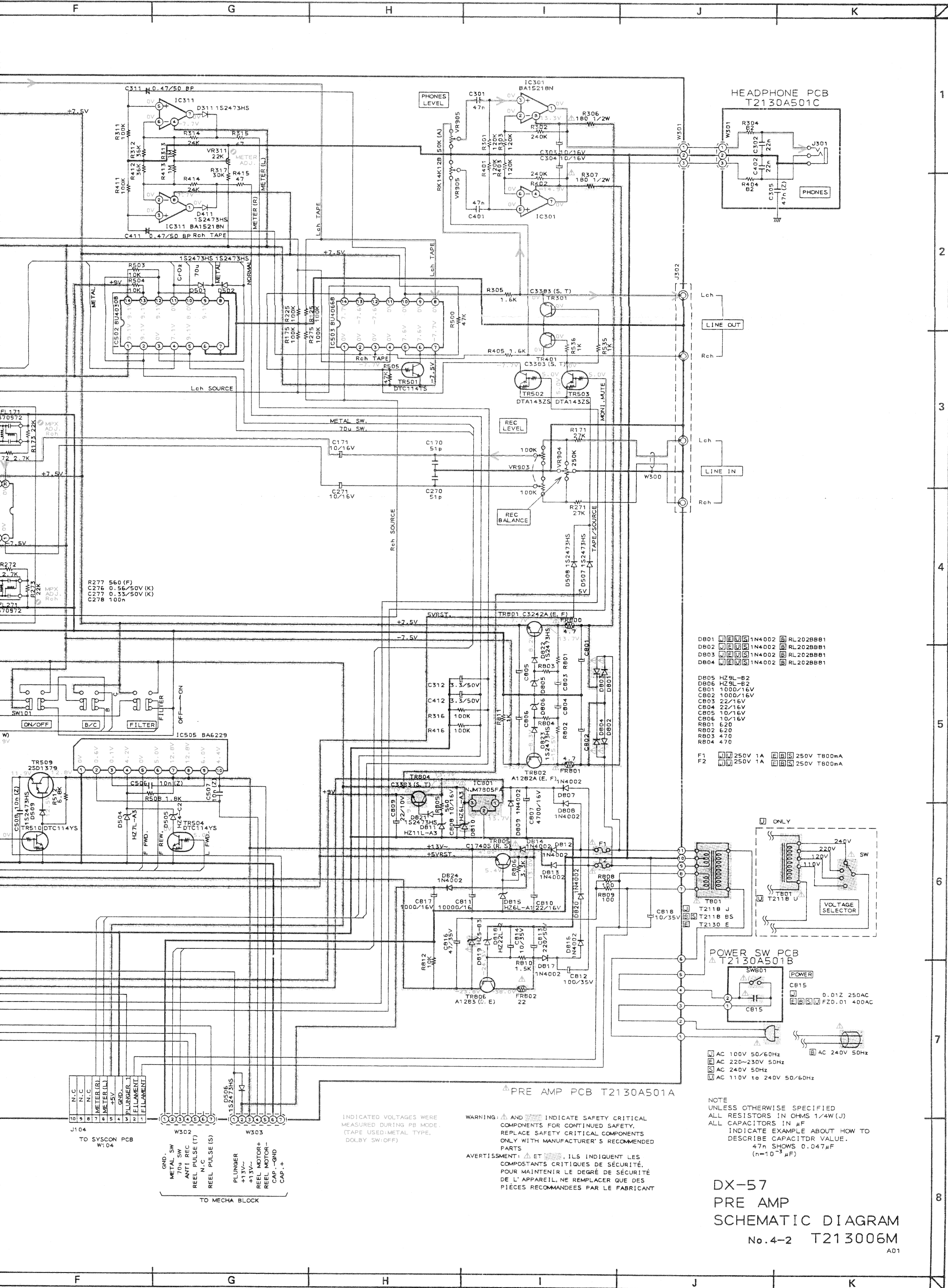
AVERTISSEMENT:  $\Delta$  ET  $\square$  ILS INDIQUENT LES  
COMPONENTS CRITIQUES DE SÉCURITÉ.  
POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ  
DE L'APPAREIL, NE REMPLACER QUE DES  
PIÈCES RECOMMANDÉES PAR LE FABRICANT

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

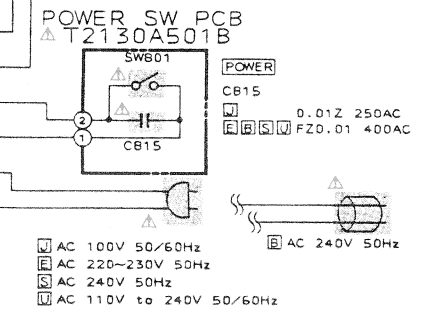
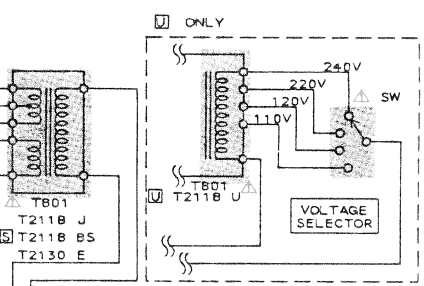








- DB01 [Symbol] 1N4002 [Symbol] RL202B881
- DB02 [Symbol] 1N4002 [Symbol] RL202B881
- DB03 [Symbol] 1N4002 [Symbol] RL202B881
- DB04 [Symbol] 1N4002 [Symbol] RL202B881
- DB05 HZ9L-B2
- DB06 HZ9L-B2
- CB01 1000/16V
- CB02 1000/16V
- CB03 22/16V
- CB04 22/16V
- CB05 10/16V
- CB06 10/16V
- RB01 620
- RB02 620
- RB03 470
- RB04 470
- F1 [Symbol] 250V 1A [Symbol] T800mA
- F2 [Symbol] 250V 1A [Symbol] T800mA



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

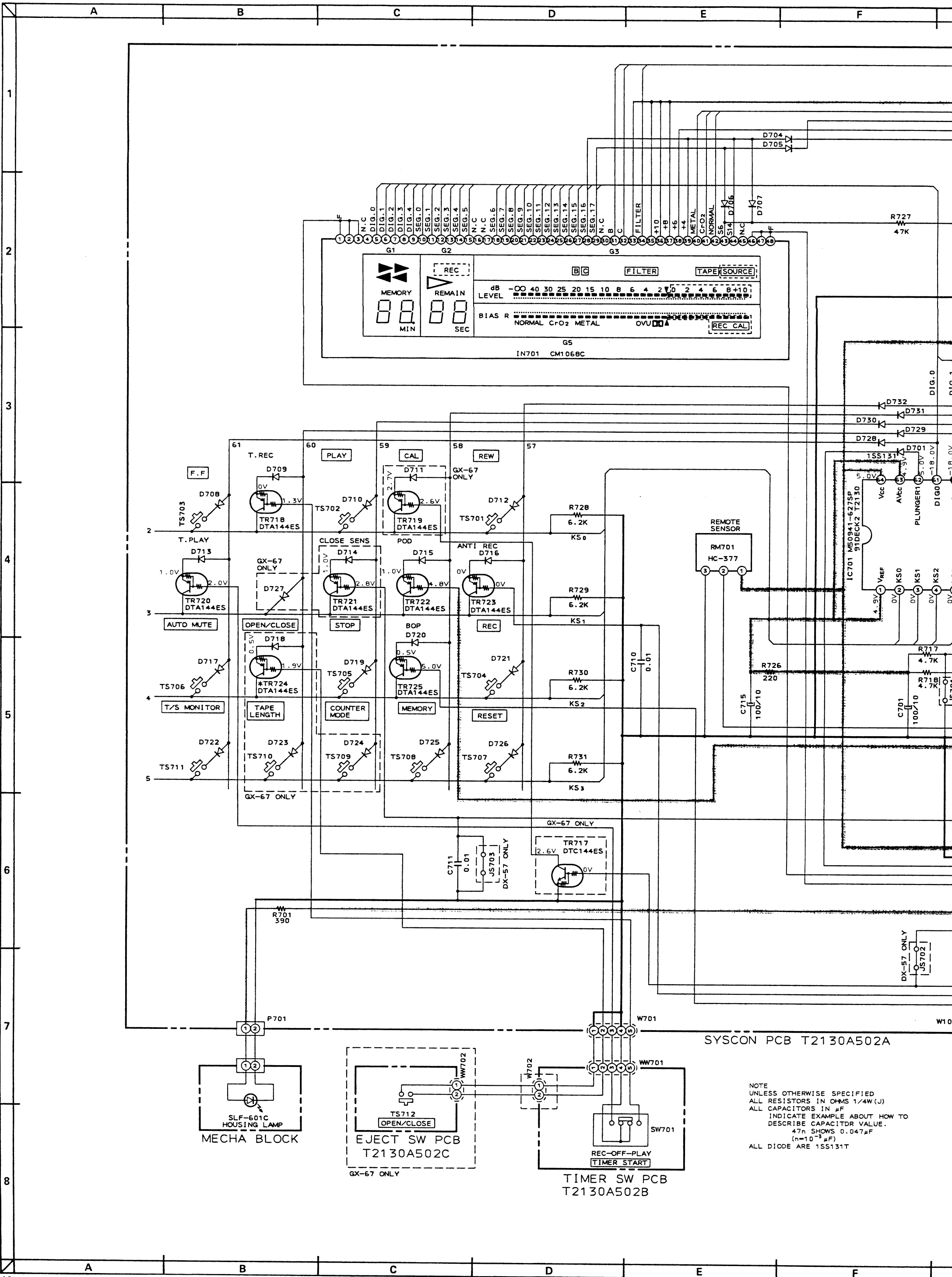
WARNING:  $\Delta$  AND  $\square$  INDICATE SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS

AVERTISSEMENT:  $\Delta$  ET  $\square$  ILS INDICENT LES COMPOSTANTS CRITIQUES DE SÉCURITÉ. POUR MAINTENIR LE DEGRÉ DE SÉCURITÉ DE L'APPAREIL, NE REMPLACER QUE DES PIÈCES RECOMMANDÉES PAR LE FABRICANT

NOTE: UNLESS OTHERWISE SPECIFIED ALL RESISTORS IN OHMS 1/4W (J) ALL CAPACITORS IN  $\mu$ F INDICATE EXAMPLE ABOUT HOW TO DESCRIBE CAPACITOR VALUE. 47n SHOWS 0.047 $\mu$ F (n=10<sup>-3</sup>  $\mu$ F)

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

A01



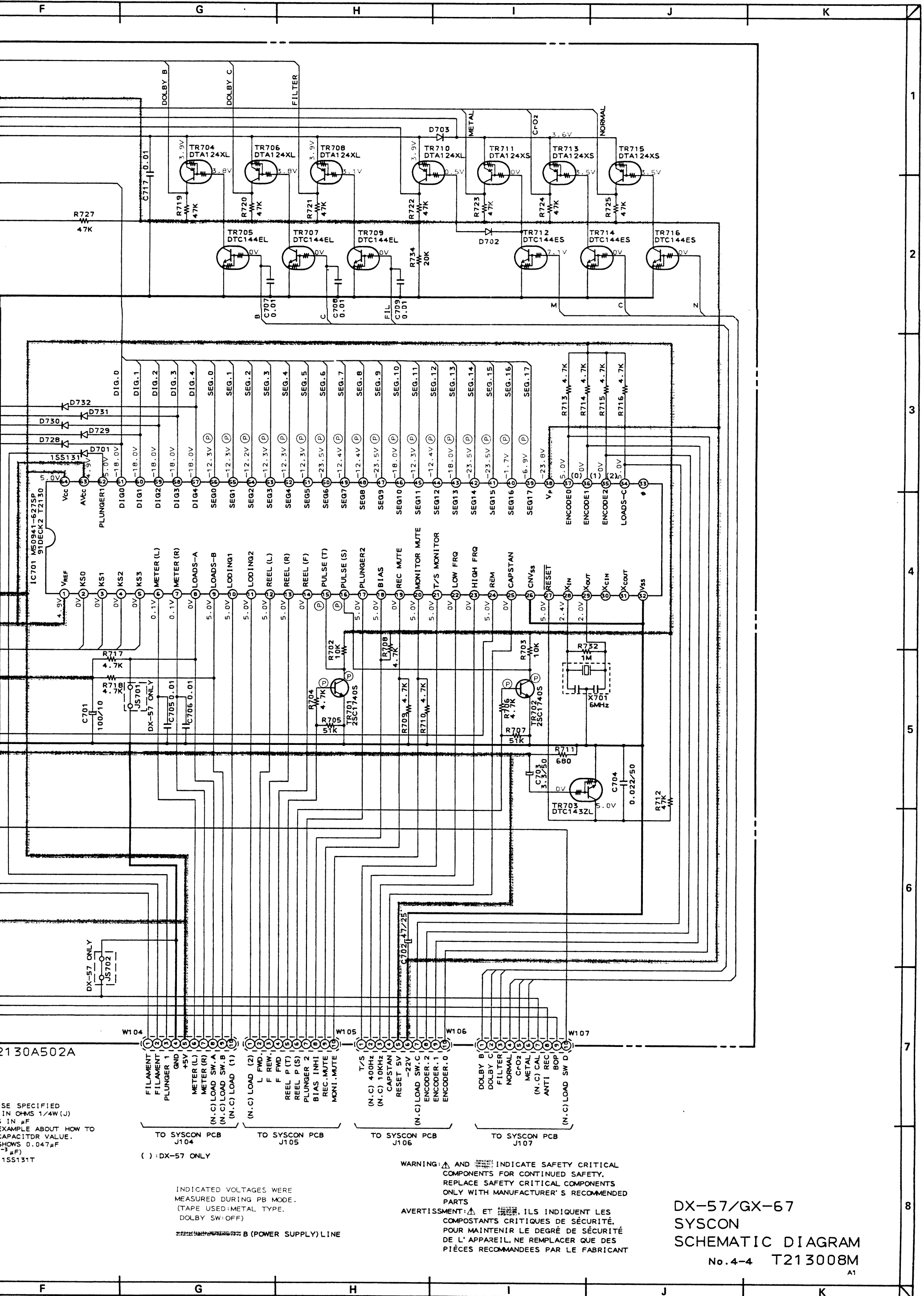
SYSCON PCB T2130A502A

NOTE  
 UNLESS OTHERWISE SPECIFIED  
 ALL RESISTORS IN OHMS 1/4W(J)  
 ALL CAPACITORS IN  $\mu$ F  
 INDICATE EXAMPLE ABOUT HOW TO  
 DESCRIBE CAPACITR VALUE.  
 47n SHOWS 0.047 $\mu$ F  
 (n=10<sup>-3</sup>  $\mu$ F)  
 ALL DIODE ARE 1SS131T

MECHA BLOCK

EJECT SW PCB  
 T2130A502C  
 GX-67 ONLY

TIMER SW PCB  
 T2130A502B



SE SPECIFIED  
 IN OHMS 1/4W(J)  
 IN #F  
 EXAMPLE ABOUT HOW TO  
 CAPACITDR 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:  $\Delta$  AND  $\square$  INDICATE SAFETY CRITICAL  
 COMPONENTS FOR CONTINUED SAFETY.  
 REPLACE SAFETY CRITICAL COMPONENTS  
 ONLY WITH MANUFACTURER'S RECOMMENDED  
 PARTS

AVERTISSEMENT:  $\Delta$  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

IC101	.....	E1,2
IC121	.....	C1
IC141	.....	C3
IC171	.....	E3
IC301	.....	G,H6
IC311	.....	A,B3
IC401	.....	C5
IC501	.....	B1
IC502	.....	F4
IC503	.....	A2
IC504	.....	F6
.....	(67 ONLY)	
IC505	.....	E6
IC801	.....	B4

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

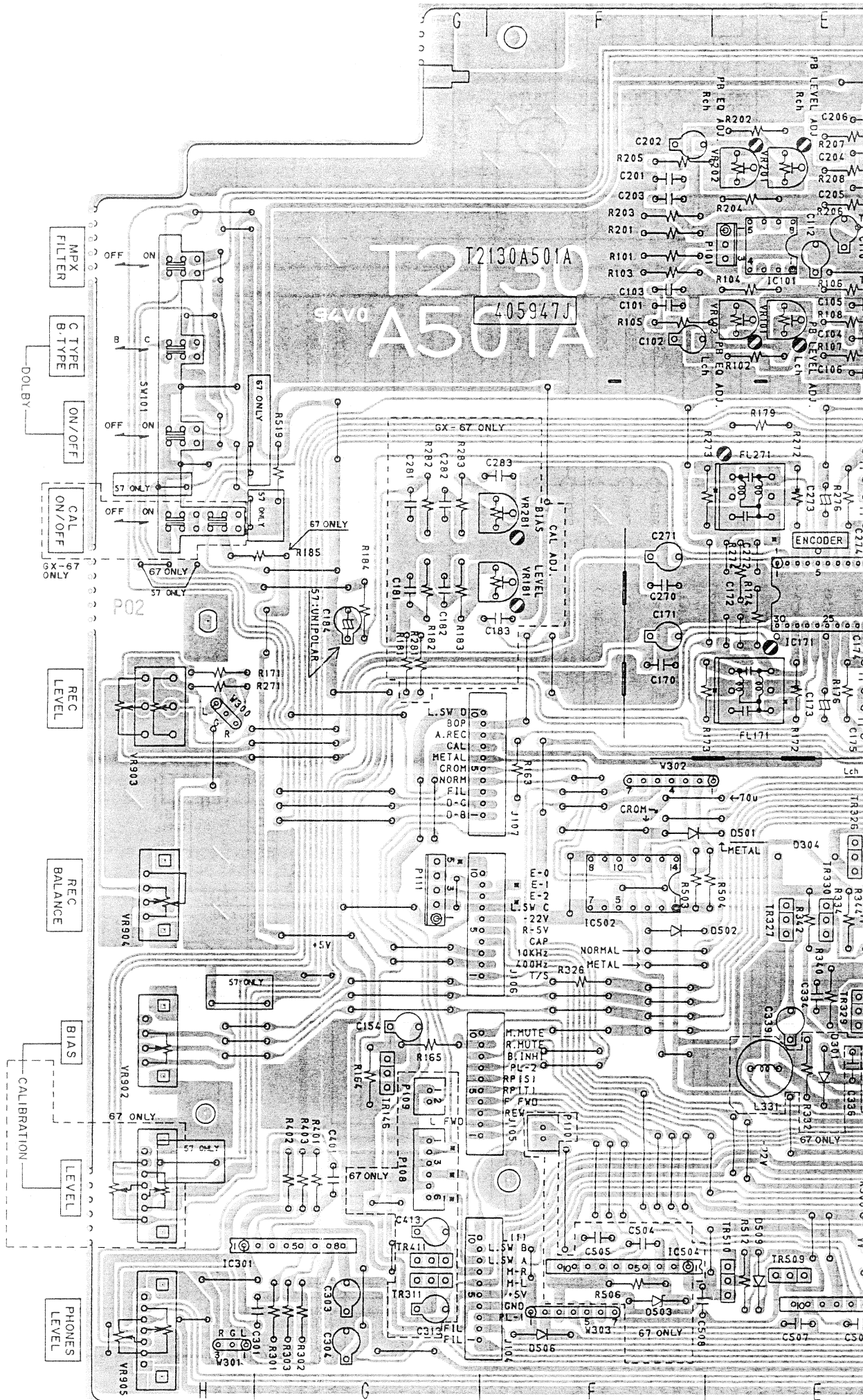
WIRES

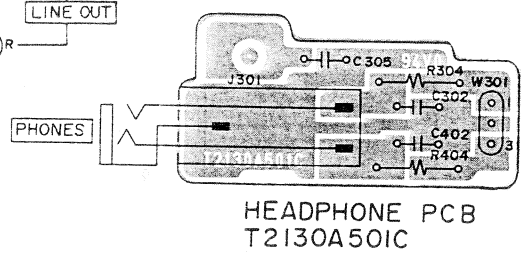
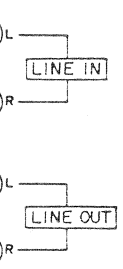
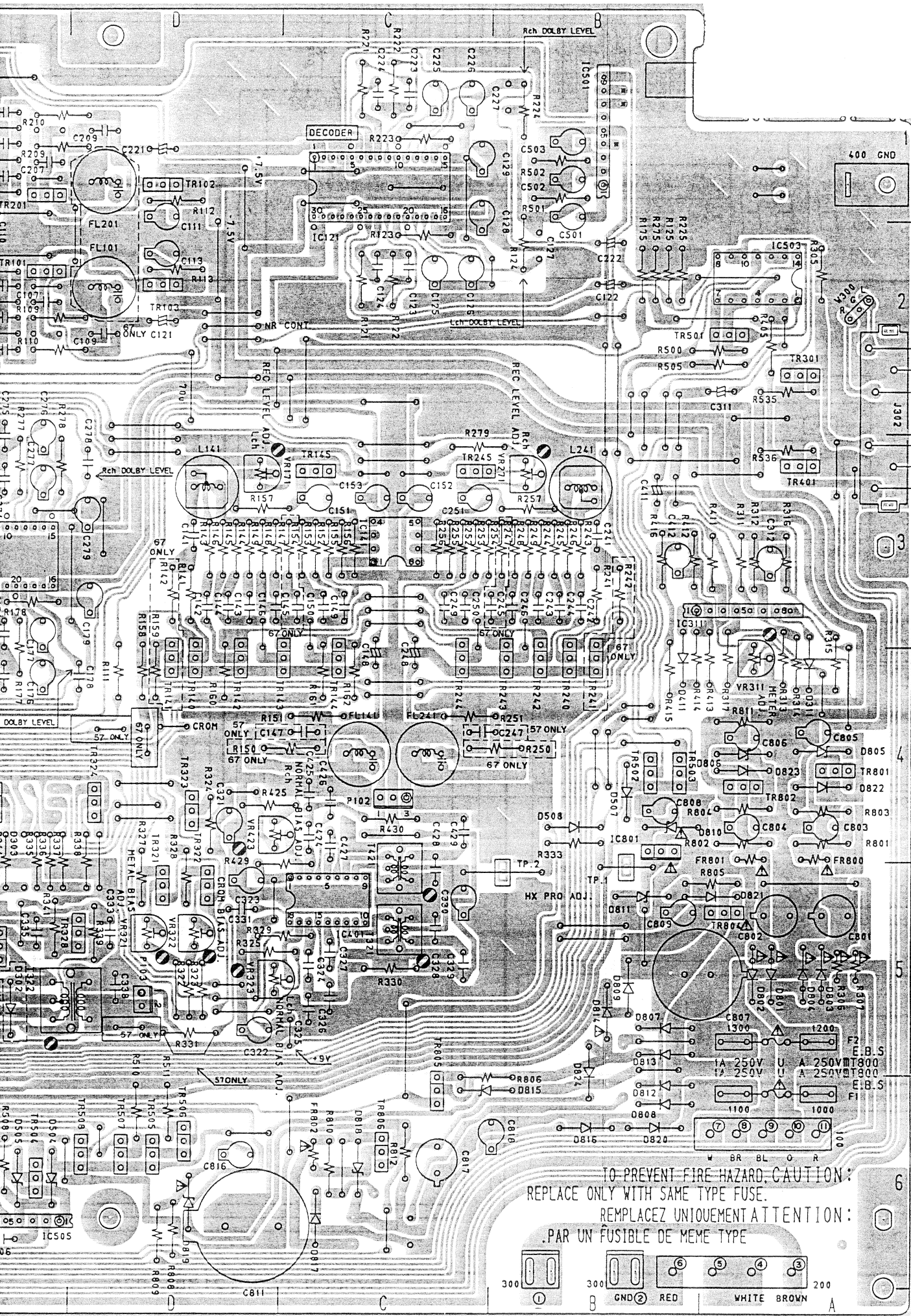
W300	.....	A2,H4
W301	.....	H6
W302	.....	F4
W303	.....	F6

TRANSISTORS

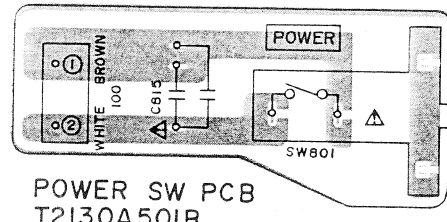
TR101	.....	E2
TR102	.....	D1
TR103	.....	D2
TR140	.....	D3,4
TR141	.....	D3,4
.....	(67 ONLY)	

TR142	.....	D3,4
TR143	.....	C3,4
TR144	.....	C3,4
TR145	.....	C3
TR146	.....	G5
TR201	.....	E1
TR240	.....	B3,4
TR241	.....	B3,4
.....	(67 ONLY)	
TR242	.....	B3,4
TR243	.....	B3,4
TR244	.....	C3,4
TR245	.....	C3
TR301	.....	A2
TR311	.....	G6
TR321	.....	D5
TR322	.....	D5
TR323	.....	D4
TR324	.....	D4
TR325	.....	E4
TR326	.....	E4
TR327	.....	E4,5
TR328	.....	D5
TR329	.....	E5
TR330	.....	E4,5
TR401	.....	A3
TR411	.....	G6
TR501	.....	A2
TR502	.....	B4
TR503	.....	B4
TR504	.....	E6
TR505	.....	D6
TR506	.....	D6
TR507	.....	D6
TR508	.....	D6
TR509	.....	E6
TR510	.....	E6
TR801	.....	A4
TR802	.....	A4
TR804	.....	A5
TR805	.....	C6
TR806	.....	C6



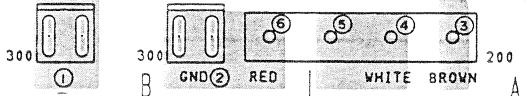


HEADPHONE PCB  
T2130A501C



POWER SW PCB  
T2130A501B

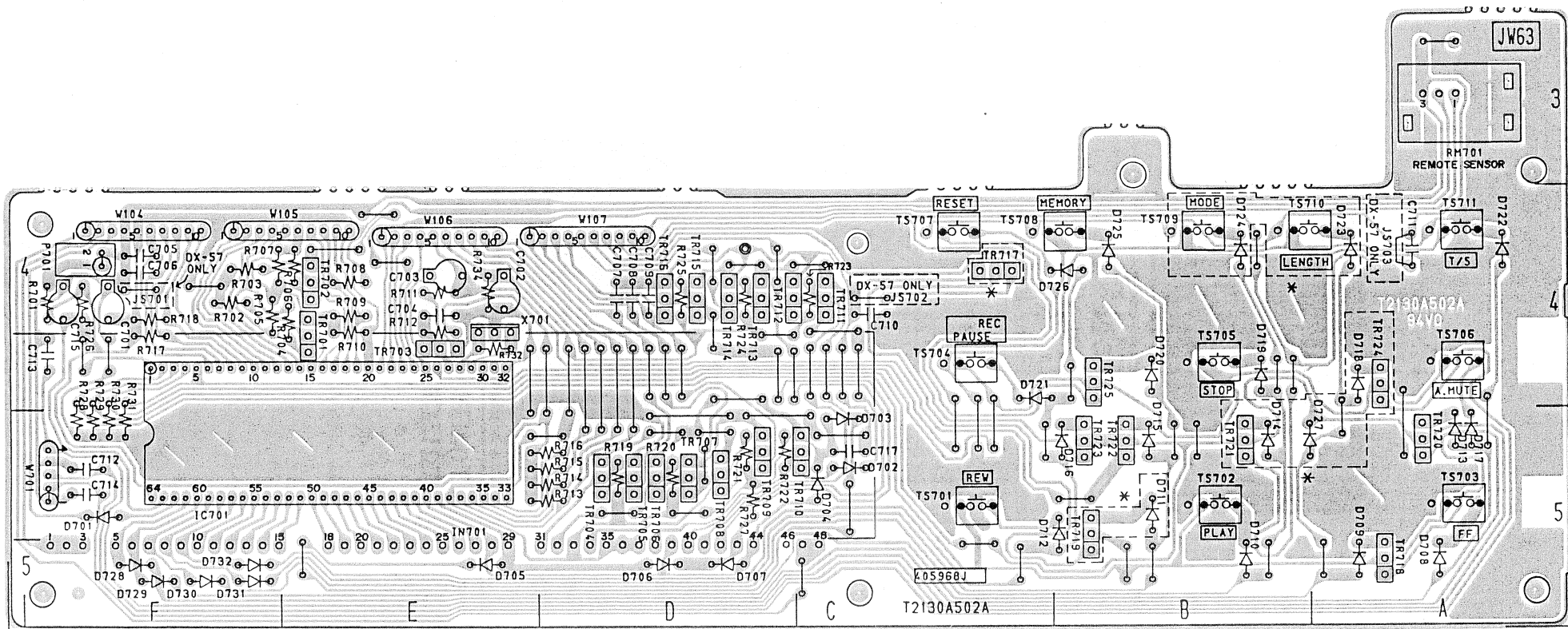
TO PREVENT FIRE HAZARD, CAUTION:  
REPLACE ONLY WITH SAME TYPE FUSE.  
REPLACEZ UNIQUEMENT ATTENTION:  
PAR UN FUSIBLE DE MEME TYPE



PRE AMP PCB T2130A501A J1

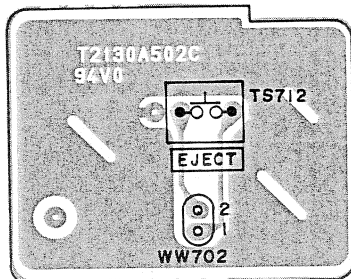
WARNING: Δ INDICATES SAFETY CRITICAL COMPONENTS FOR CONTINUED SAFETY. REPLACE SAFETY CRITICAL COMPONENTS ONLY WITH MANUFACTURER'S RECOMMENDED PARTS.  
AVERTISSEMENT: Δ IL INDIQUE LES COMPOSANTS CRITIQUES DE SECURITE. POUR MAINTENIR LE DEGRE DE SECURITE DE L'APPAREIL, NE REMPLACER QUE DES PIECES RECOMMENDEES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



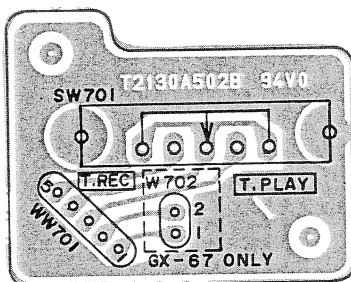


SYSCON PCB T2130A502A

\* 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