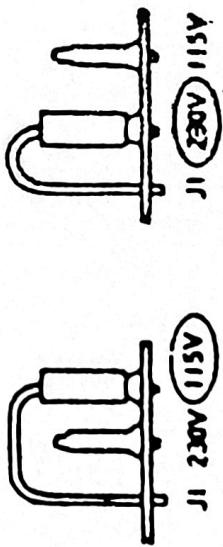
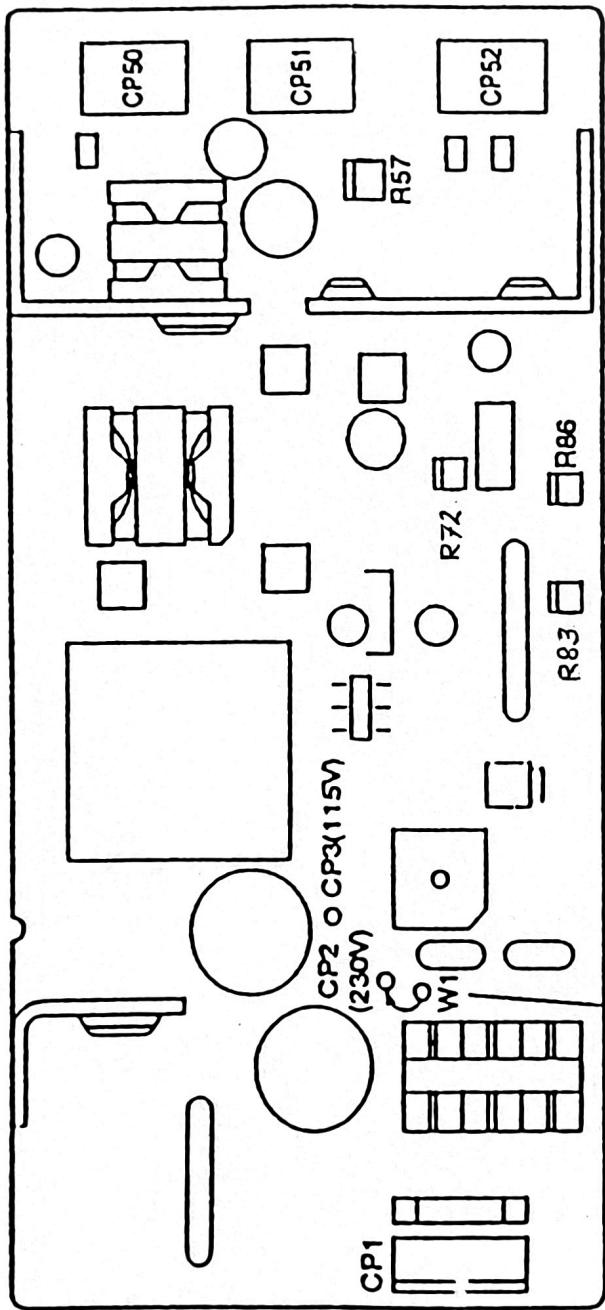


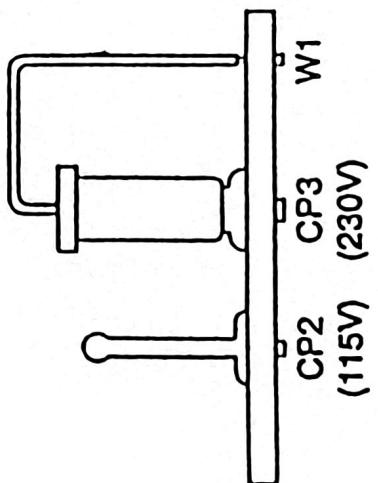
VR1 24V ADJUSTMENT
CN3 REMOTE CONTROL ON/OFF



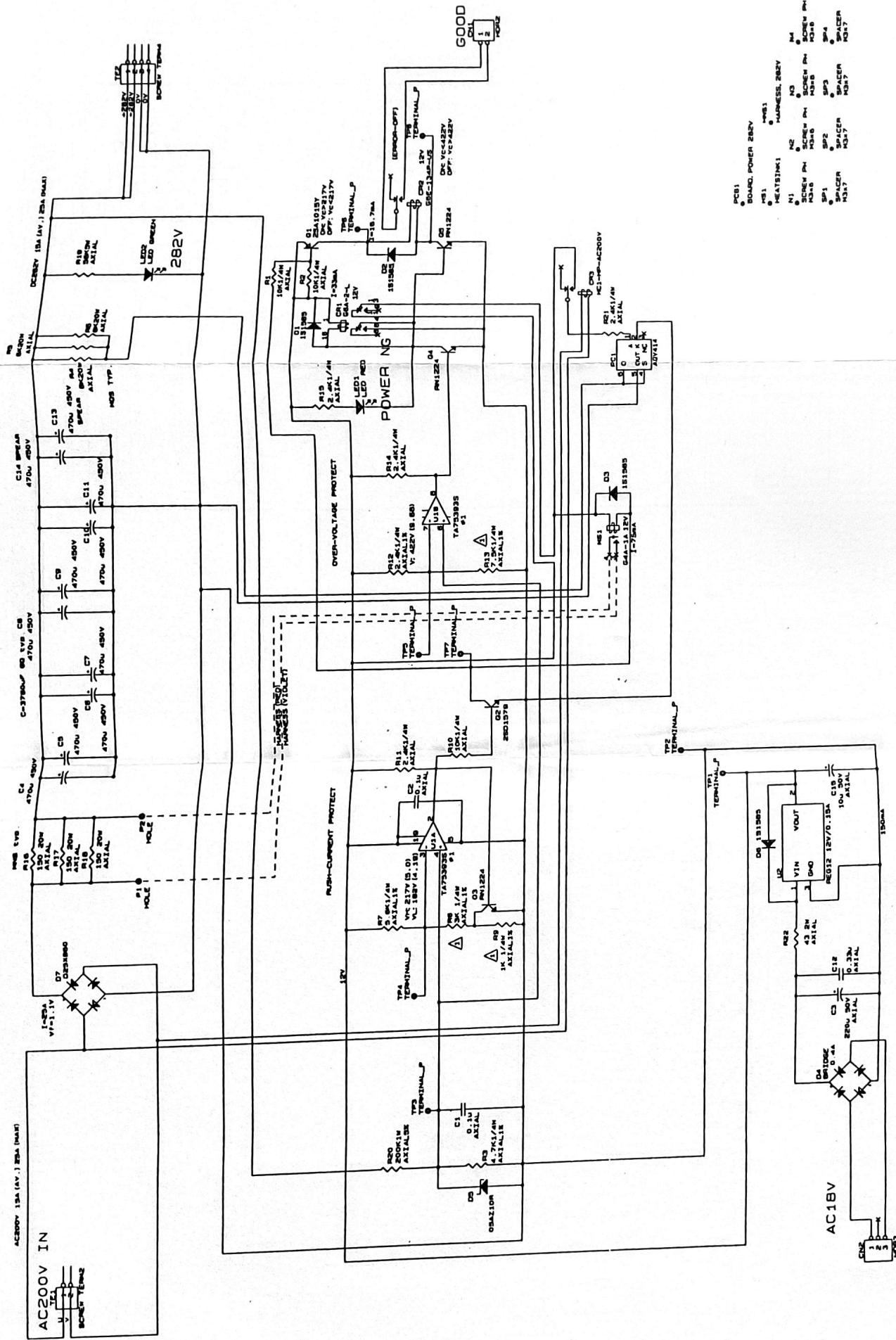
24 V POWER SUPPLY BOARD PCB LAYOUT



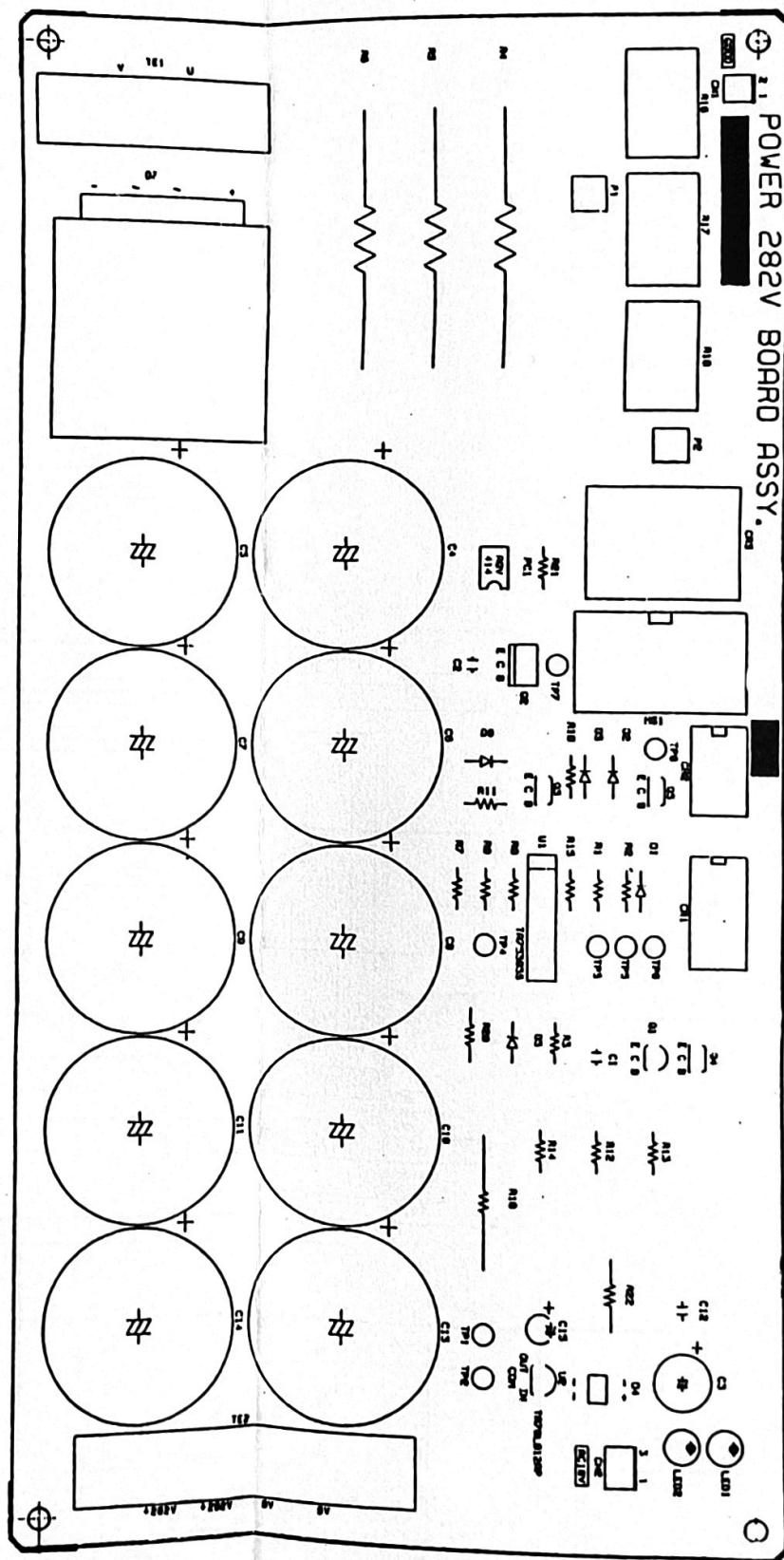
R57 -12V OUTPUT VOLTAGE ADJUSTMENT (V3)
 R72 +12V OUTPUT VOLTAGE ADJUSTMENT (V2)
 R83 +5V OUTPUT VOLTAGE ADJUSTMENT (V1)
 R86 POWER FAILURE SIGNAL ADJUSTMENT (PFS)

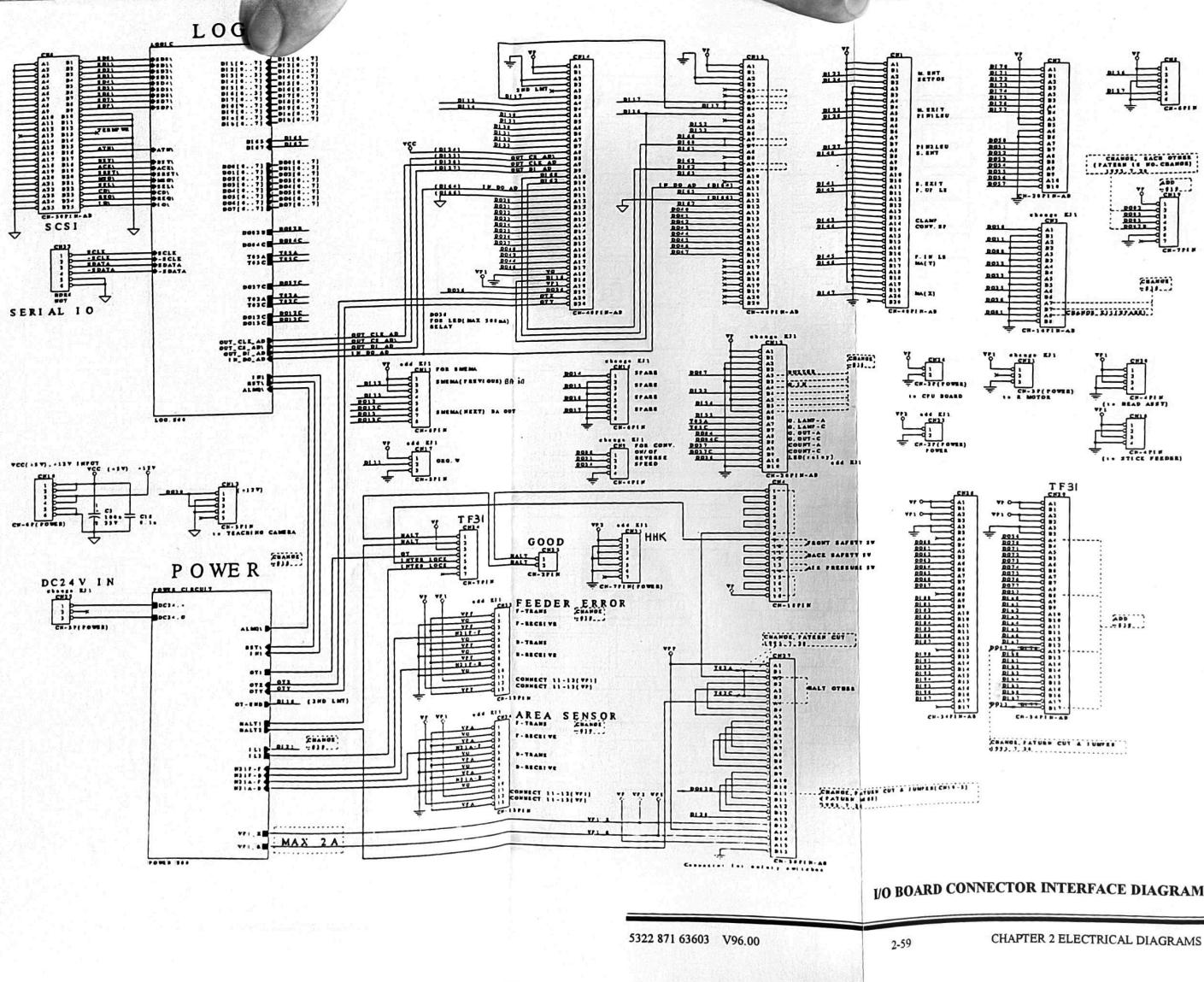


5/12 V POWER SUPPLY BOARD PCB LAYOUT

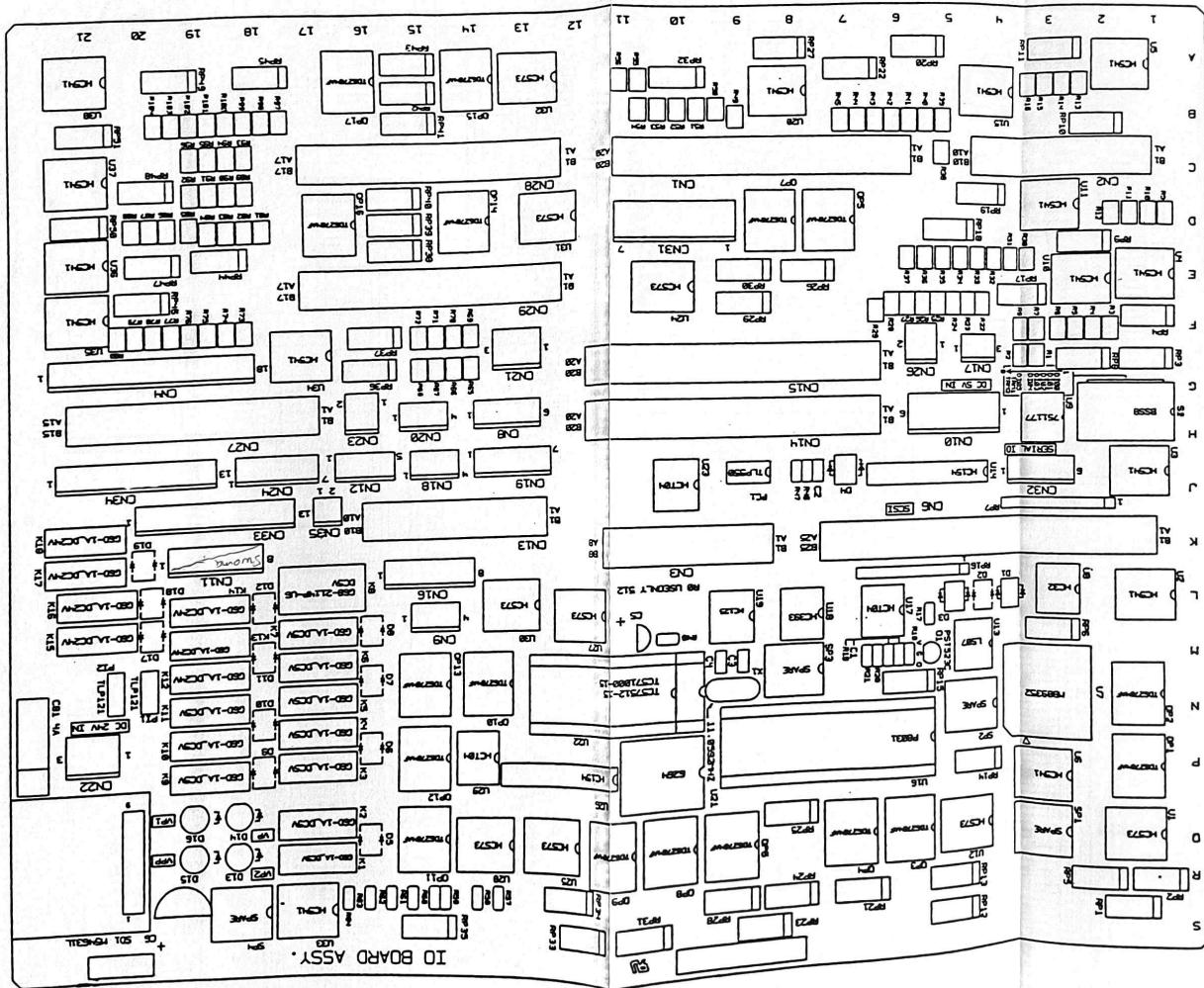


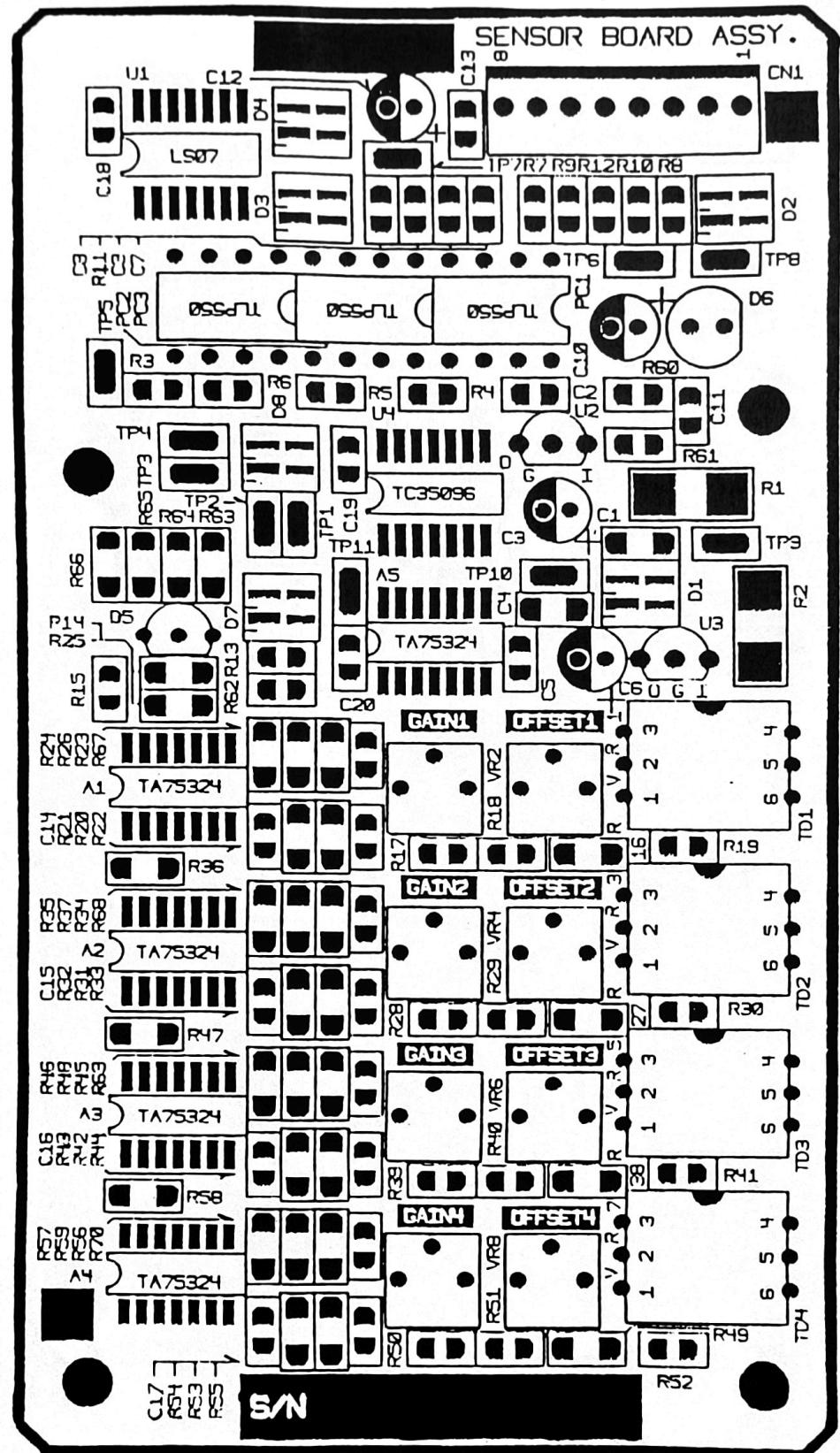
282 V DRIVER POWER BOARD PCB LAYOUT



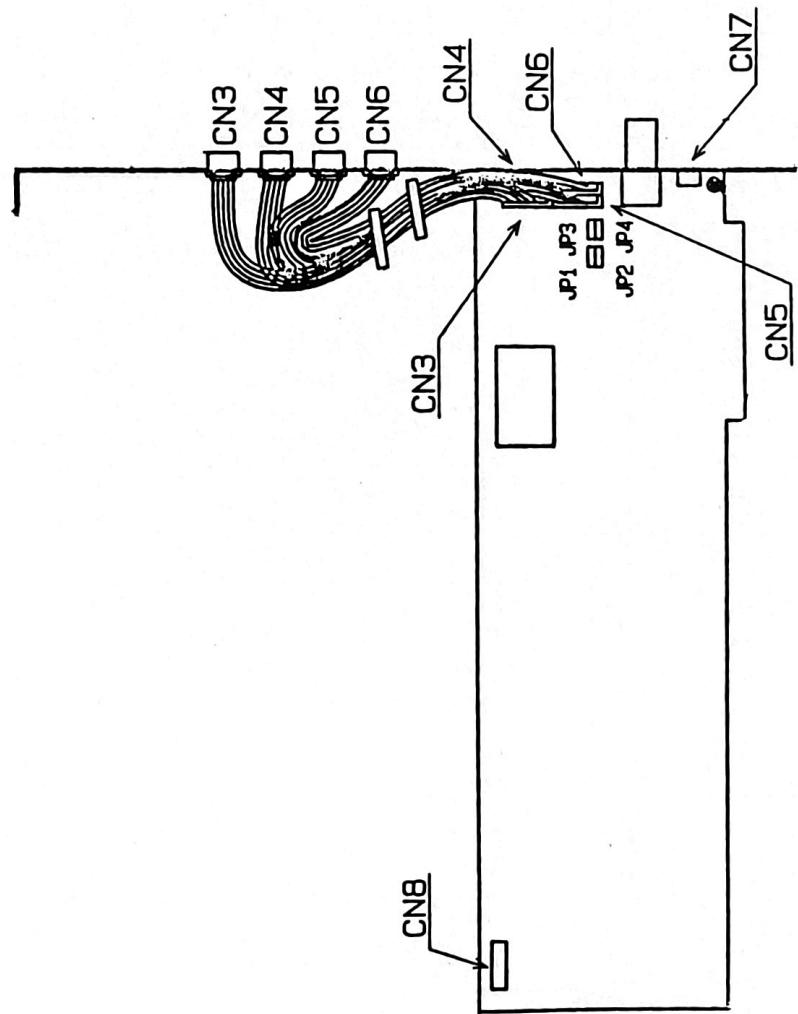
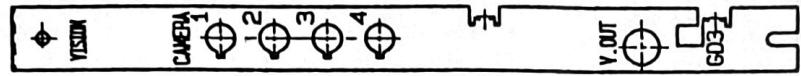


10 BOARD PCB LAYOUT

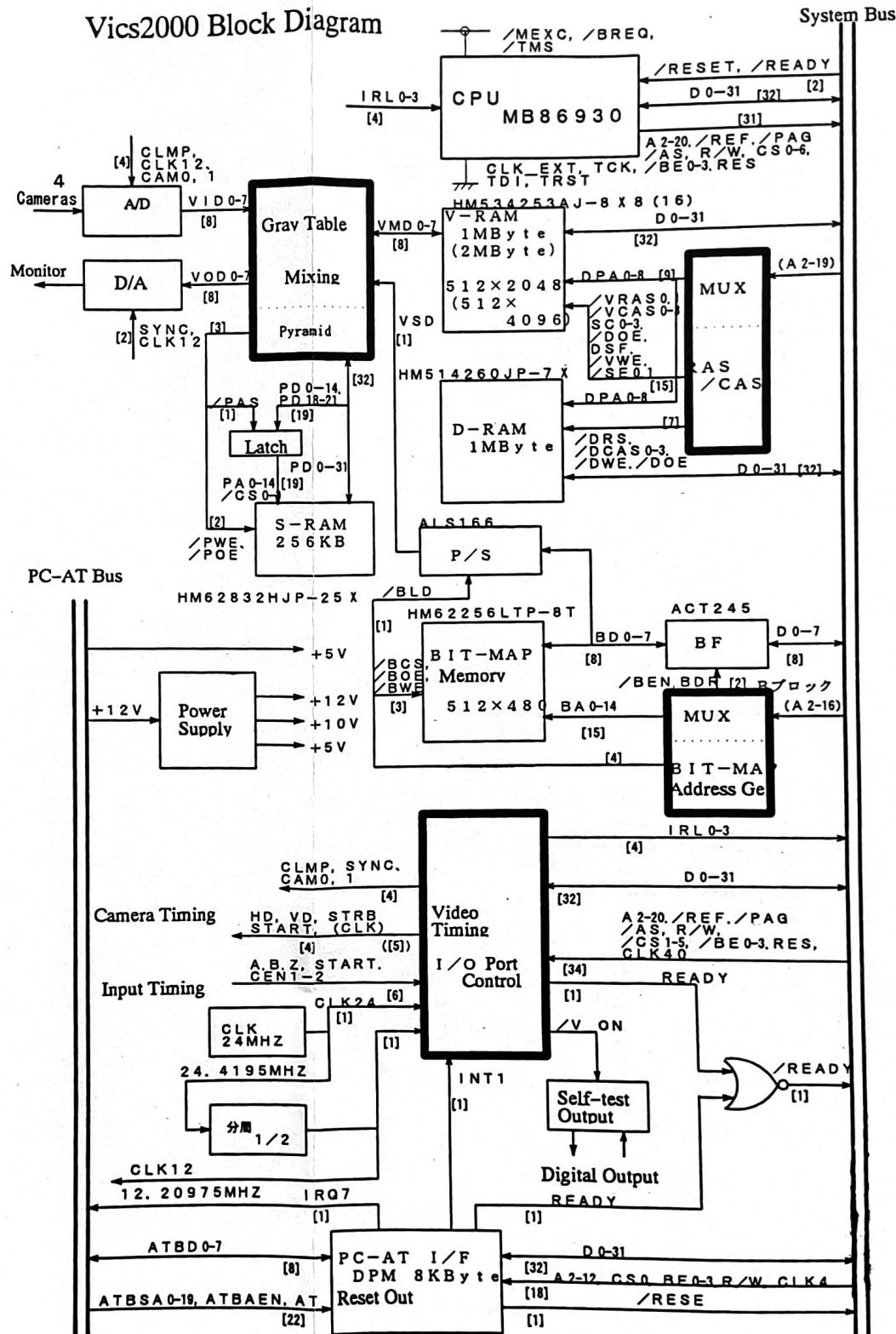




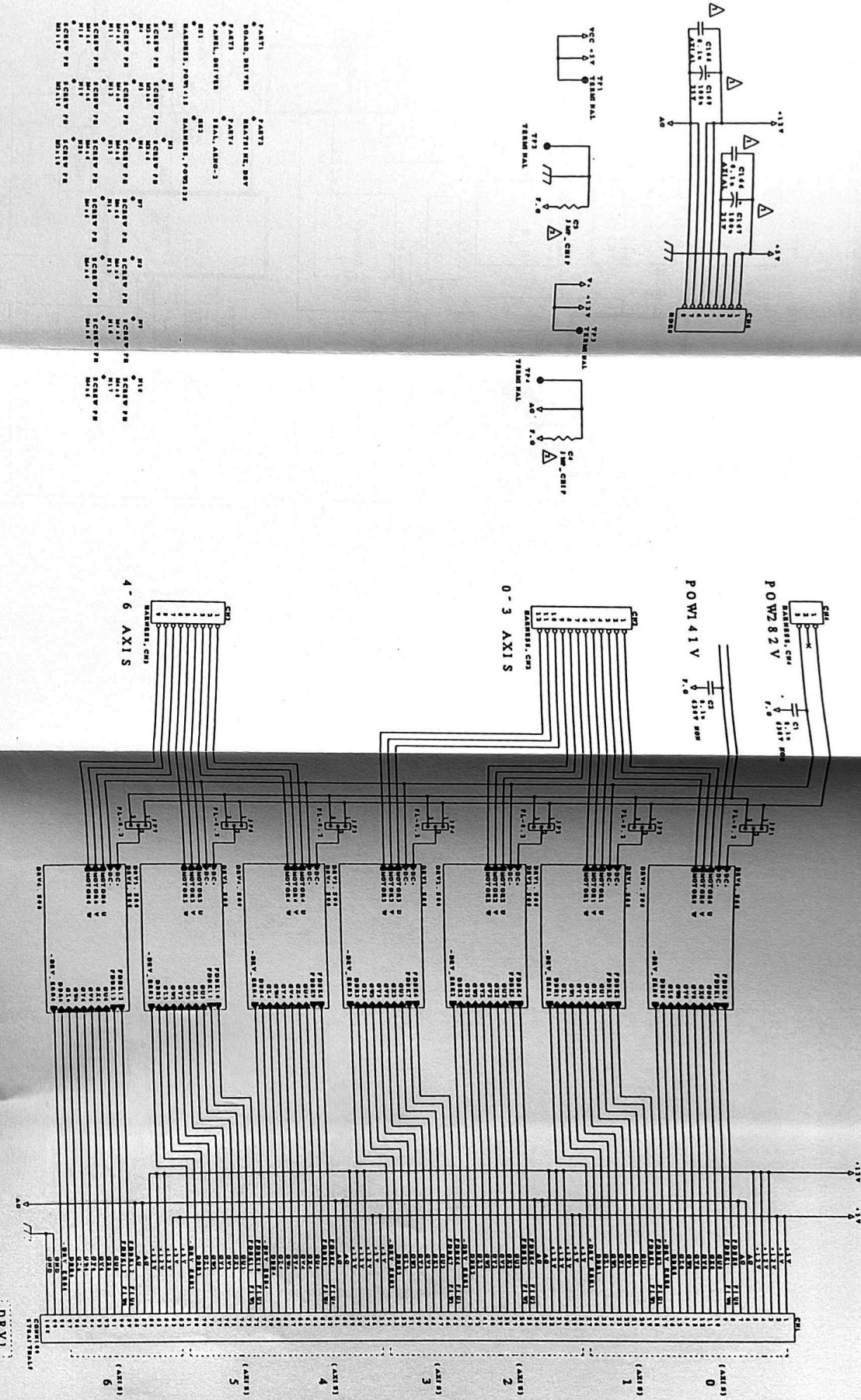
VACUUM BOARD PCB LAYOUT



VICS 2000 VISION BOARD PCB LAYOUT



VICS 2000 VISION BOARD BLOCK DIAGRAM



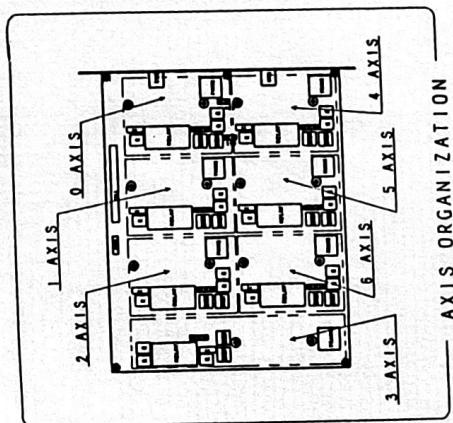
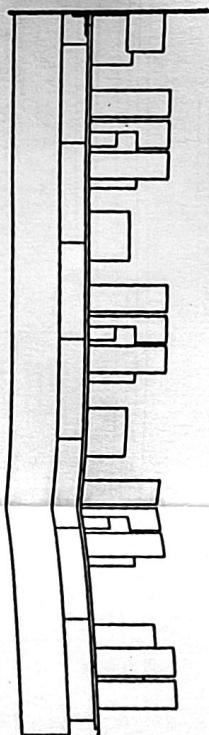
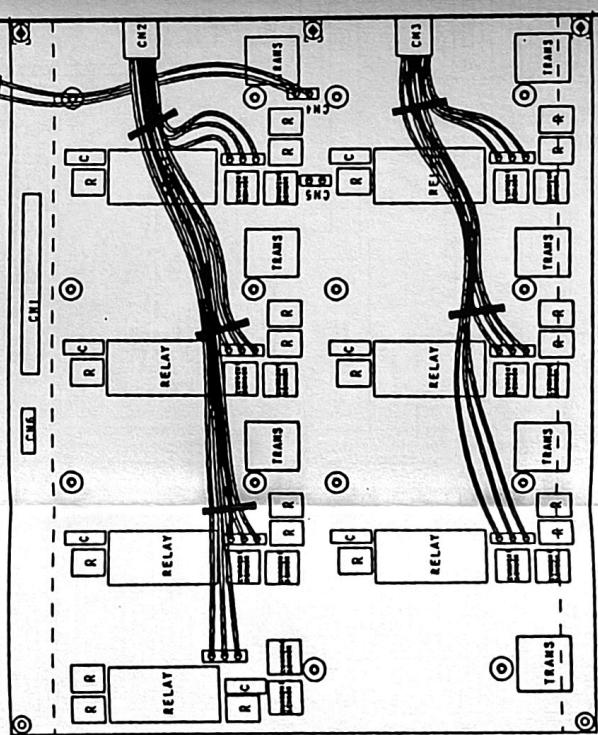
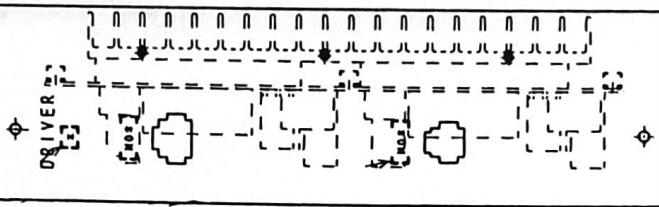
DRIVER BOARD CONNECTOR INTERFACE DIAGRAM

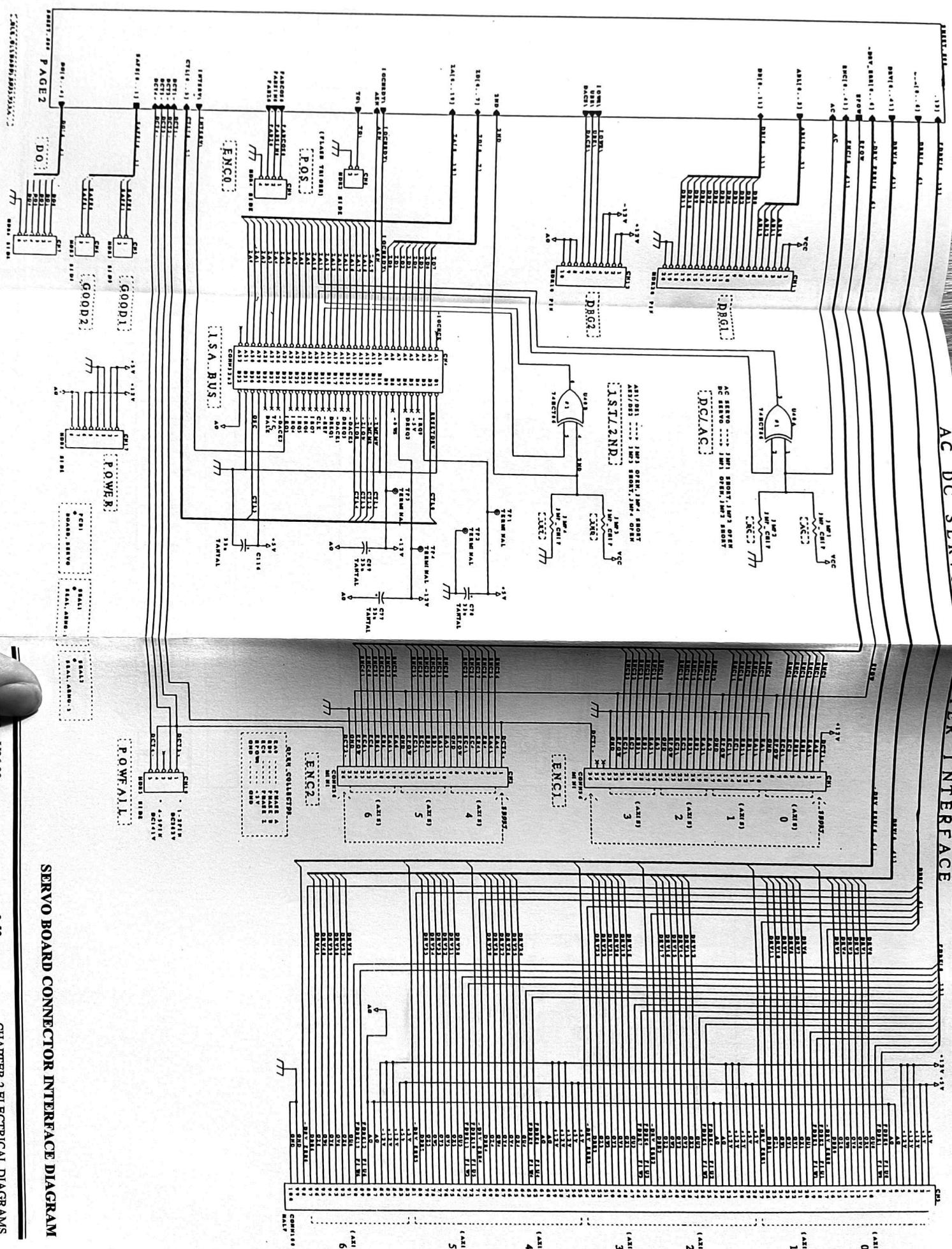
DRIVER BOARD PCB LAYOUT

CHAPTER 2 ELECTRICAL DIAGRAMS

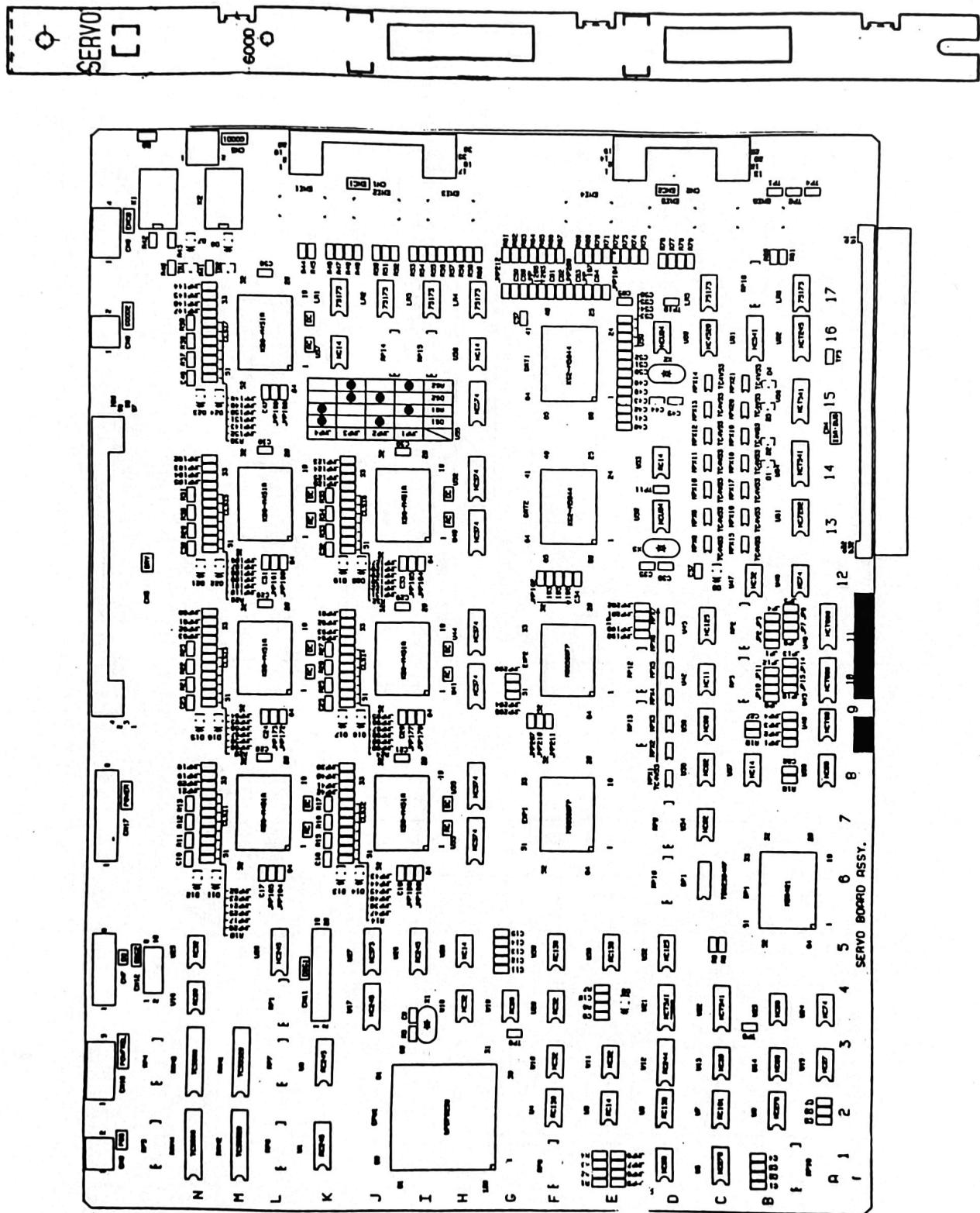
2-53

5322 871 63603 V96.00

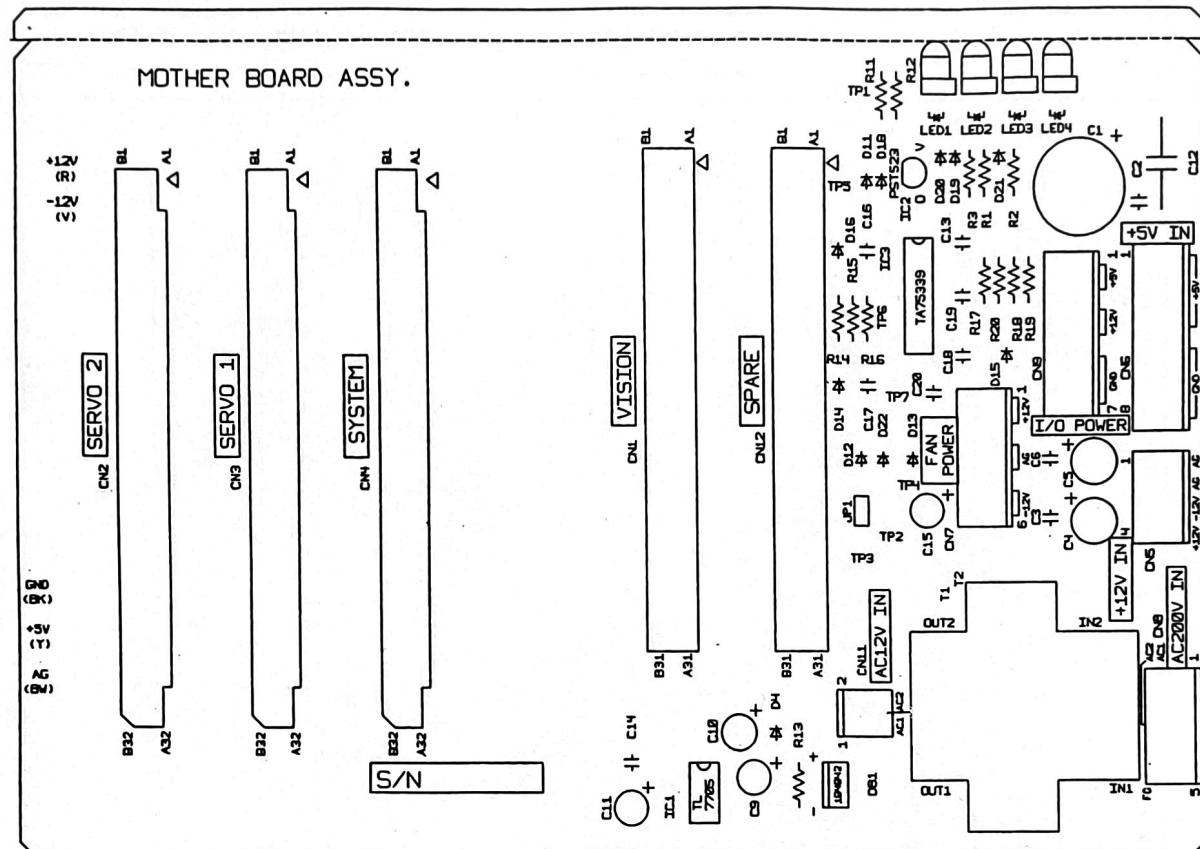




SERVO BOARD CONNECTOR INTERFACE DIAGRAM



SERVO BOARD PCB LAYOUT

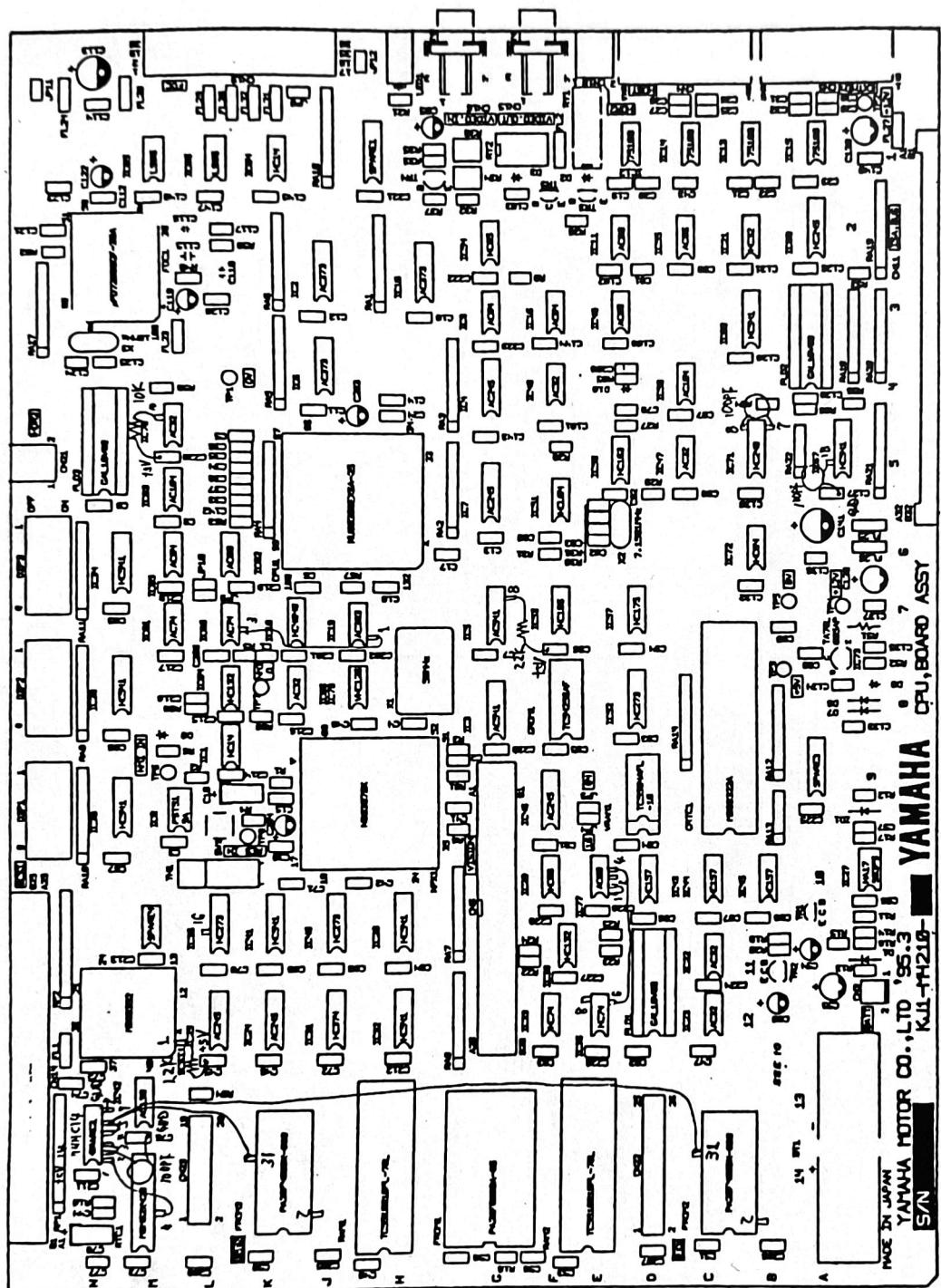


LED

GREEN O ● RED X :

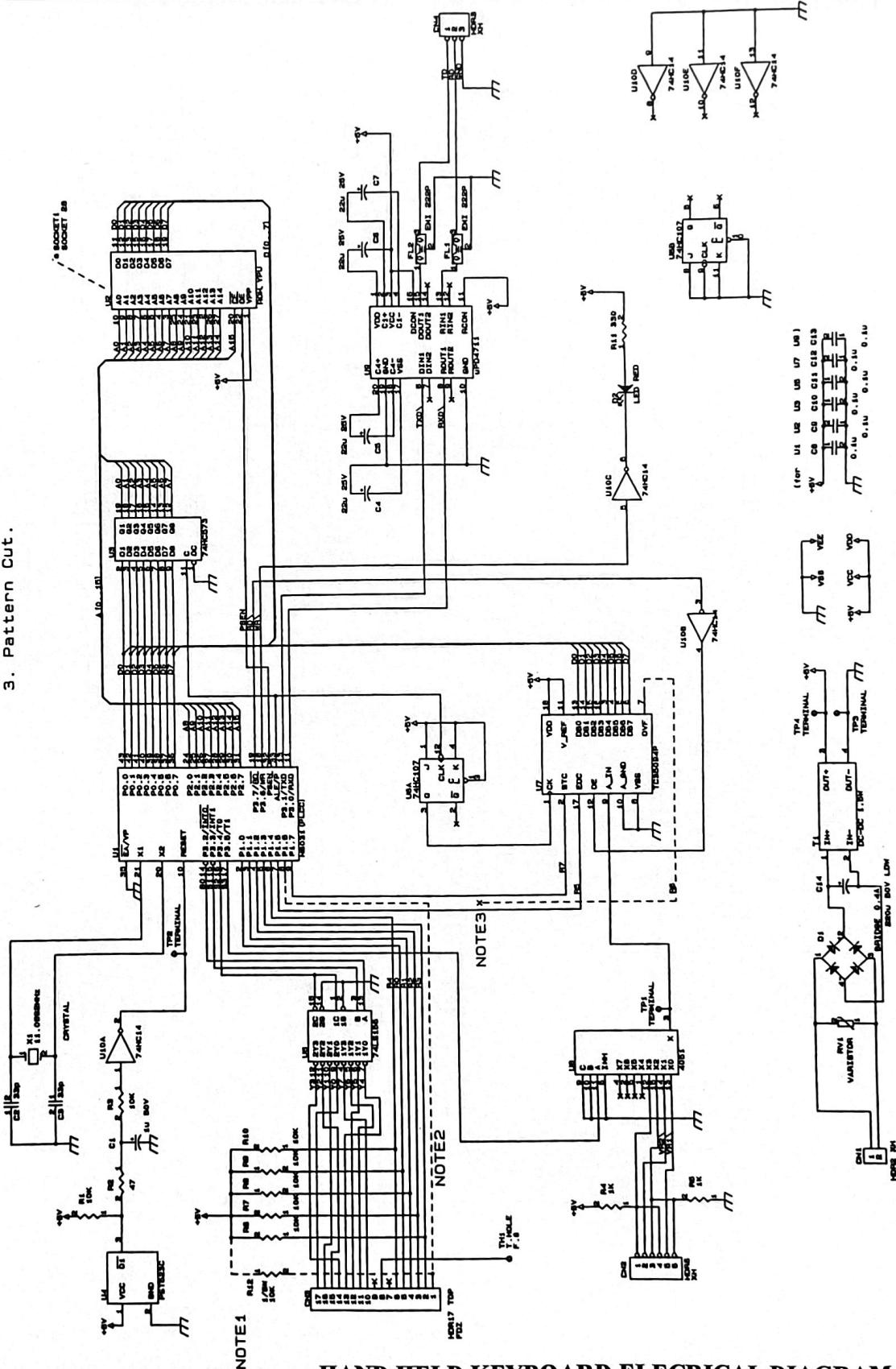
LED	AC POWER	+ 5 V	+ 12 V	- 12 V	Note
AC200V: $V_{ac} \geq 180V$ LED1 $V_{ac} < 160V$	●	-	-	-	AC
DC+5V: $V_i \geq 4.75V$ $V_i < 4.75V$ LED2 $V_i < 4.5V$	-	O	-	-	DCSV DCSV
AC+12V: $V_i \geq 10.8V$ $V_i < 10.8V$ LED3 $13.2V < V_i$	-	-	O	-	DC+12V
DC-12V: $V_o \leq -10.8V$ LED4 $V_o > -10.8V$ ただし $4V \leq V_i \leq 6V$ (注1)	-	-	-	O	DC-12V

MOTHER BOARD PCB LAYOUT



CPU BOARD PCB LAYOUT

- NOTE1. Pull Up Resistor Tuika.
 2. Jumper Wire Tuika.
 3. Pattern Cut.



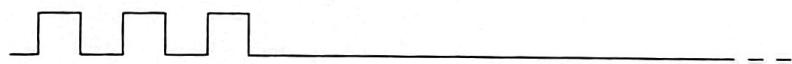
HAND HELD KEYBOARD ELECTRICAL DIAGRAM

Signals from Hand Held Keyboard LED after POWER ON:

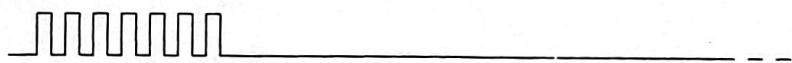
Normal condition.



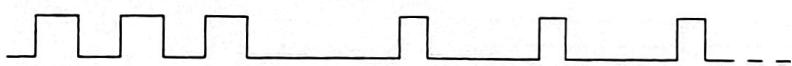
Memory or sheetkey defect.



Trouble due to external noise or defect HHK-board.



Cpu or ROM memory defect.



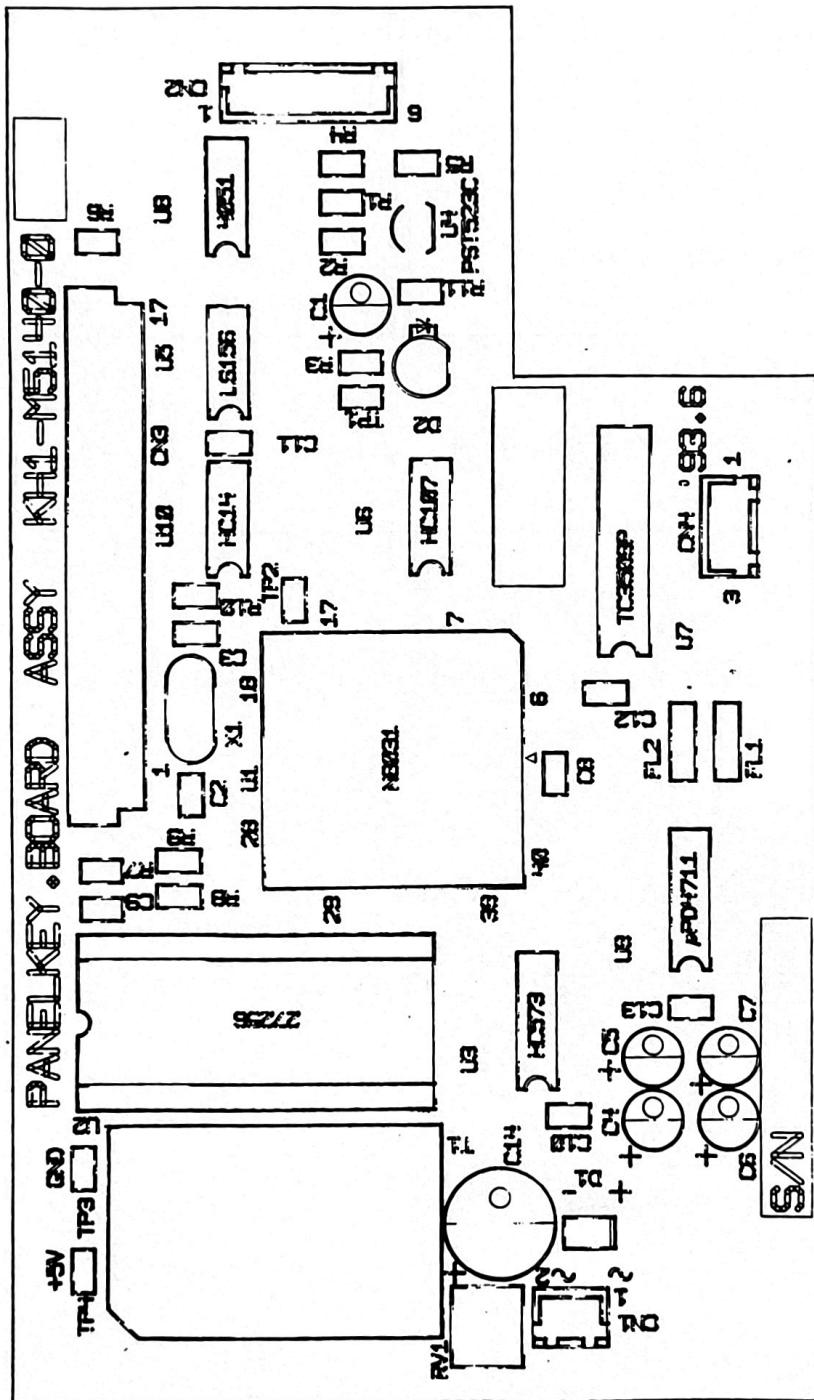
Joystick defect.

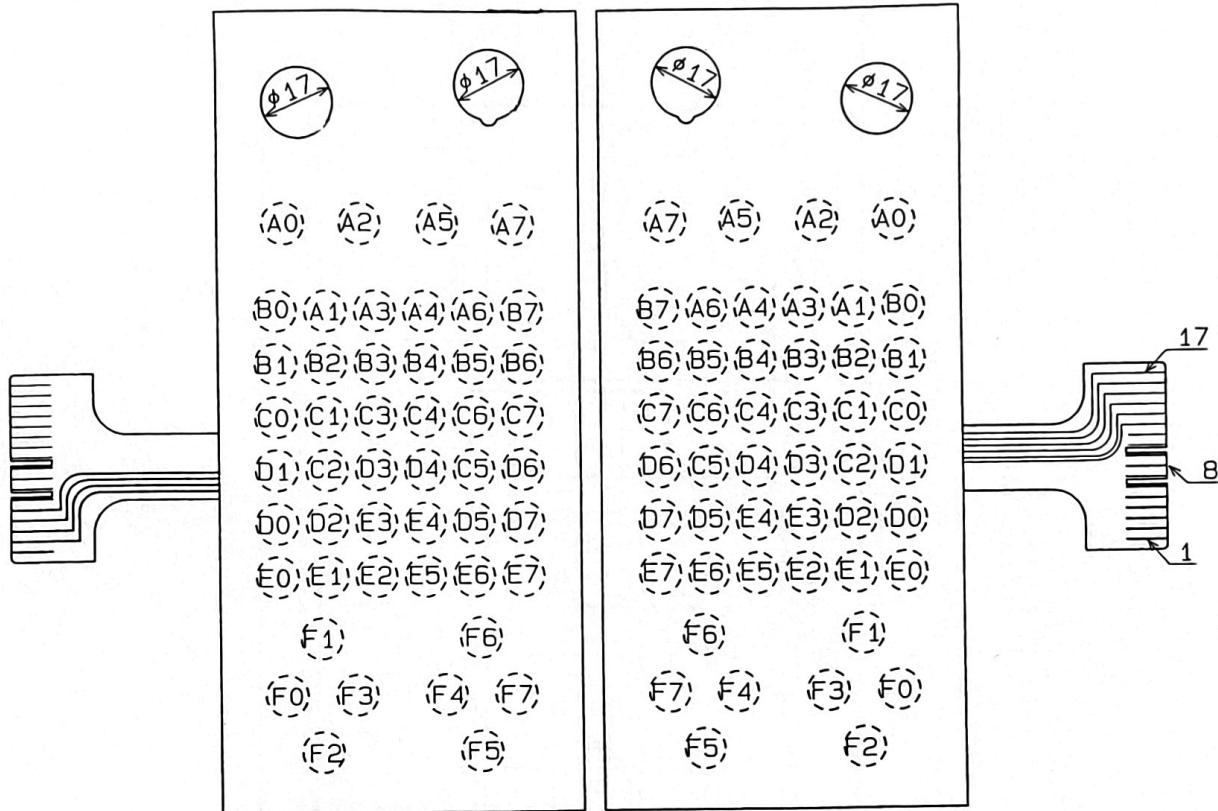


Sheetkey defect.



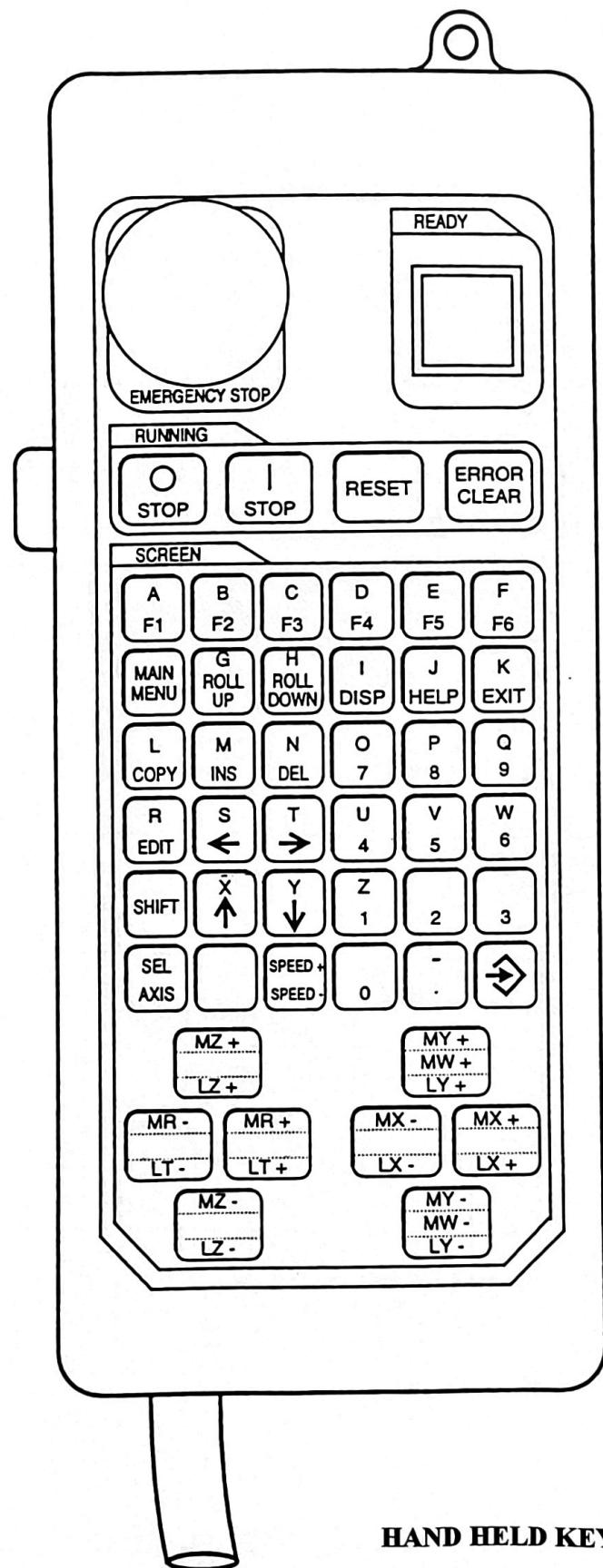
HAND HELD KEYBOARD STATUS LED SIGNALS



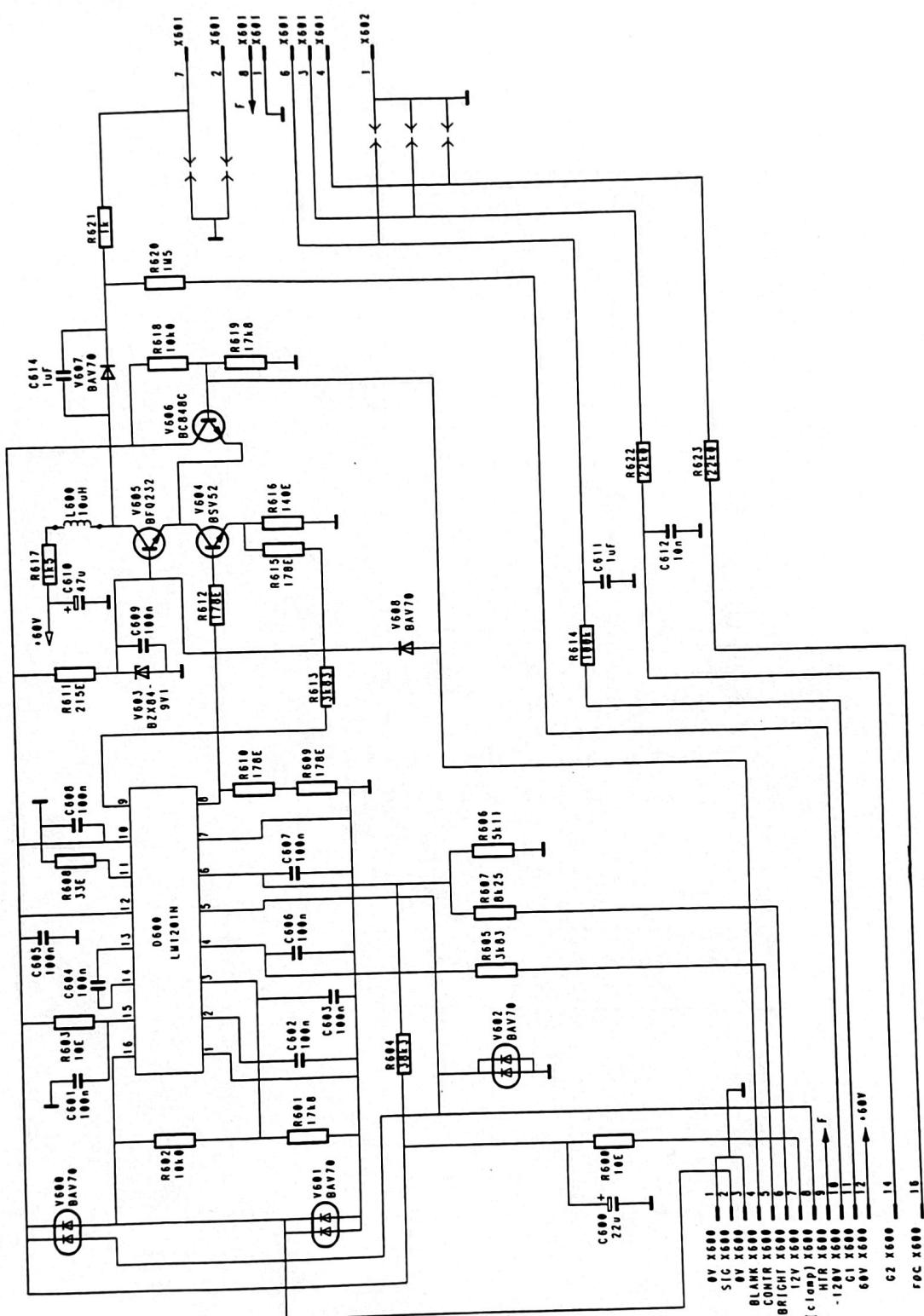


	10	11	12	13	14	15	16	17
1	F0	F1	F2	F3	F4	F5	F6	F7
2	E0	E1	E2	E3	E4	E5	E6	E7
3	D0	D1	D2	D3	D4	D5	D6	D7
4	C0	C1	C2	C3	C4	C5	C6	C7
5	B0	B1	B2	B3	B4	B5	B6	B7
6	A0	A1	A2	A3	A4	A5	A6	A7

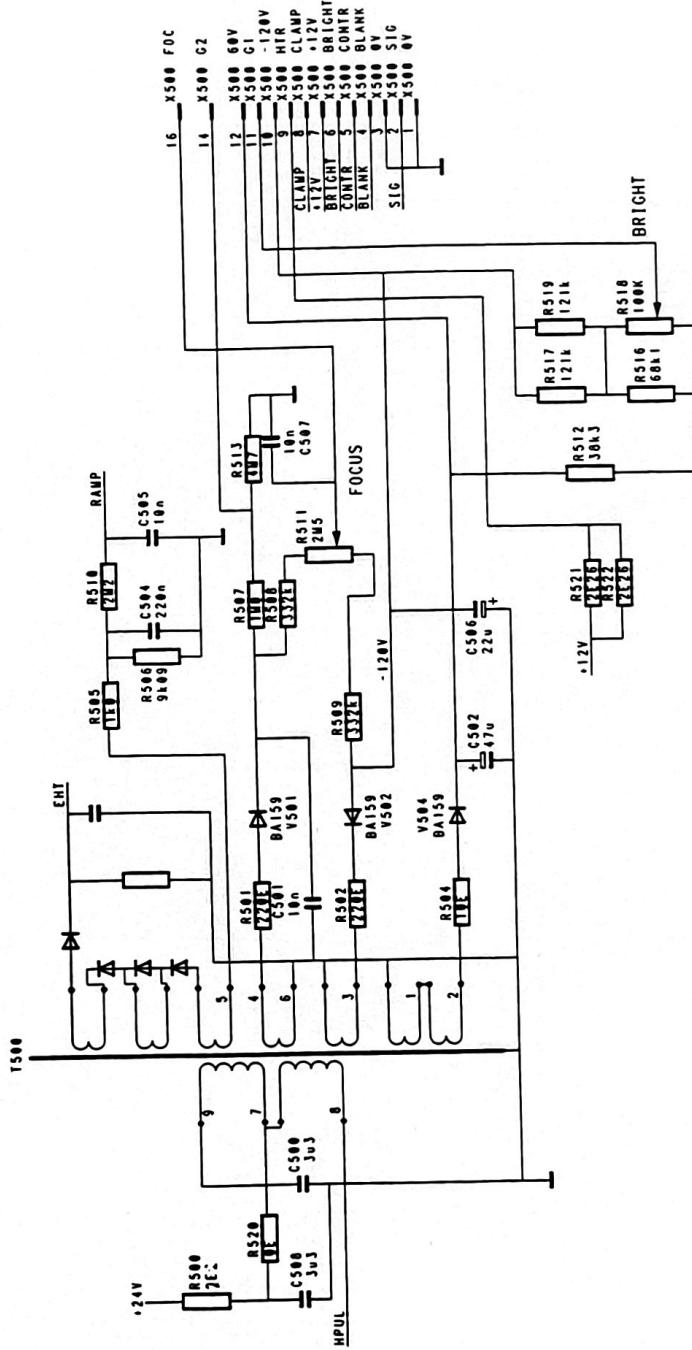
HAND HELD KEYBOARD SHEET CODING



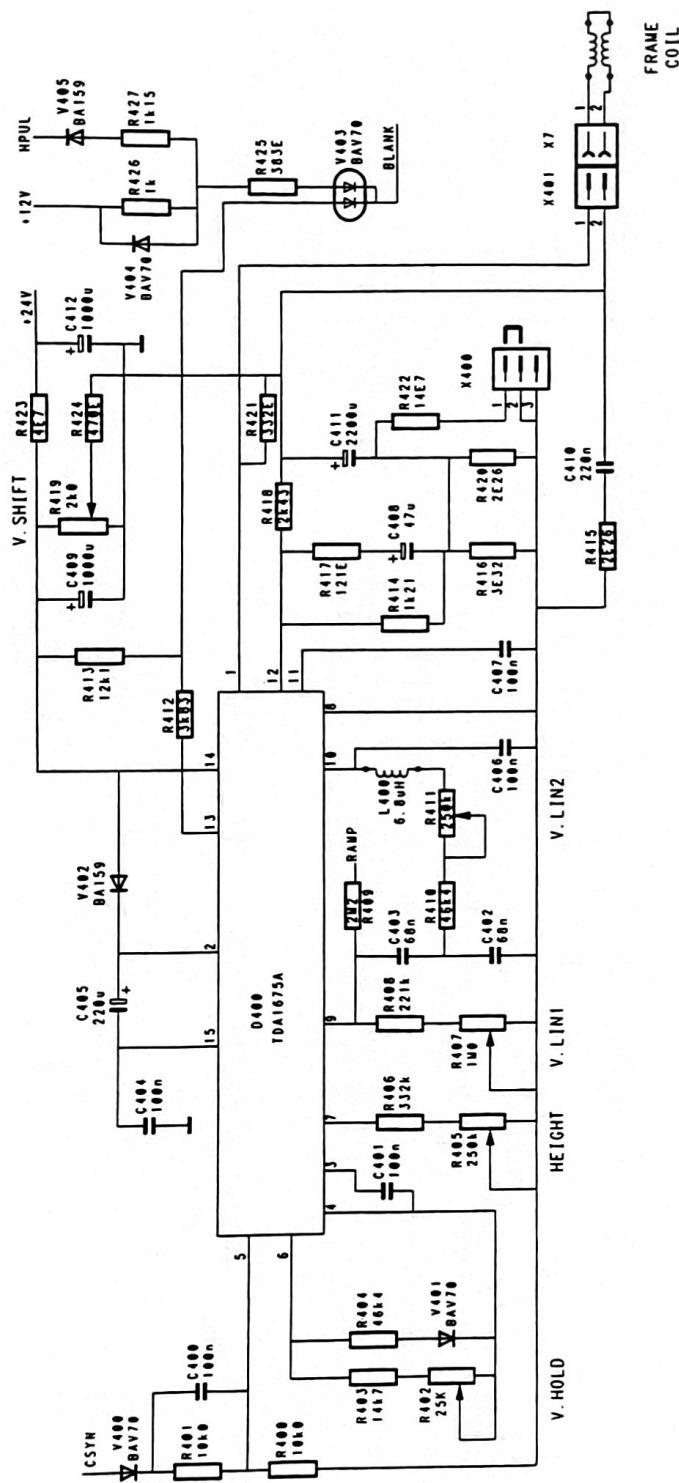
HAND HELD KEYBOARD LAYOUT



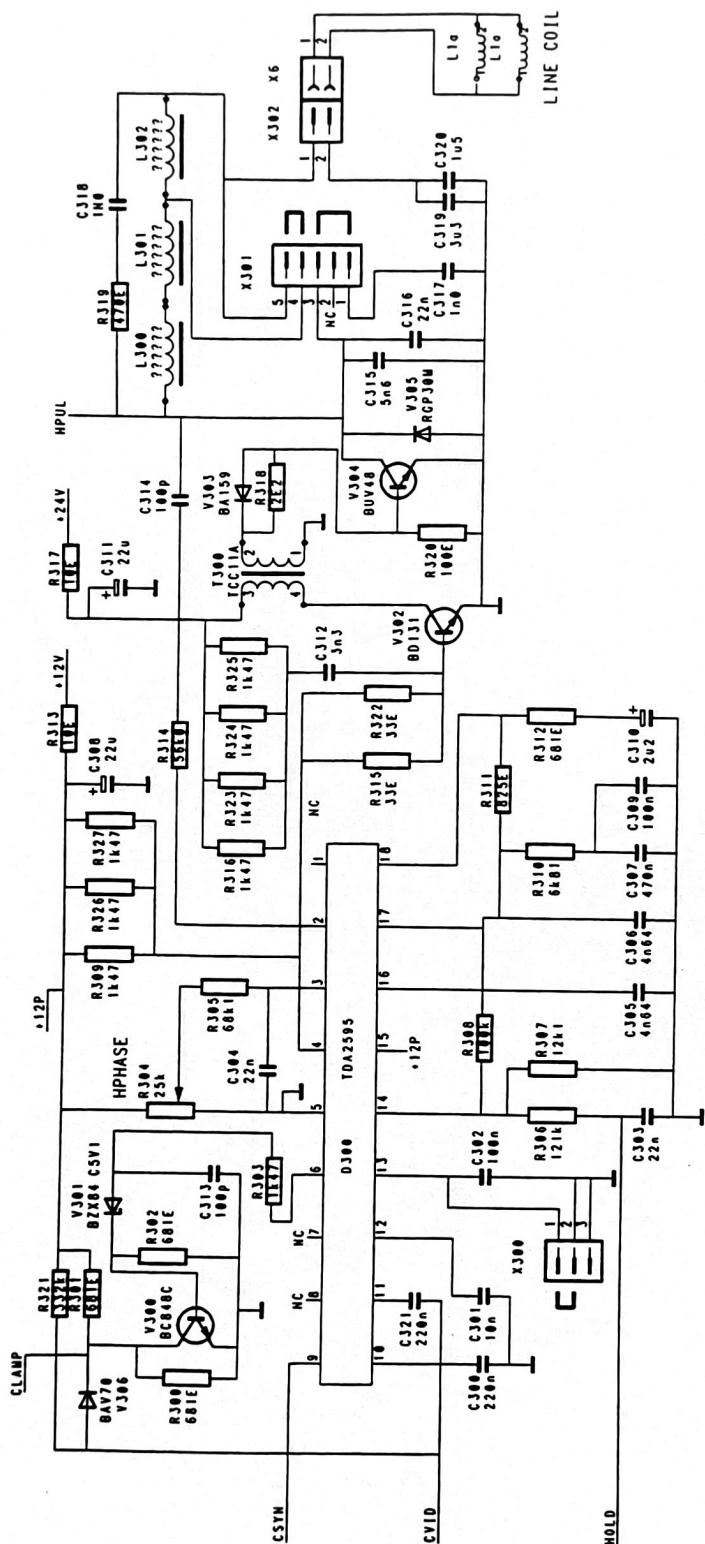
LDH2162 & LDH2163 CRT BOARD DIAGRAM



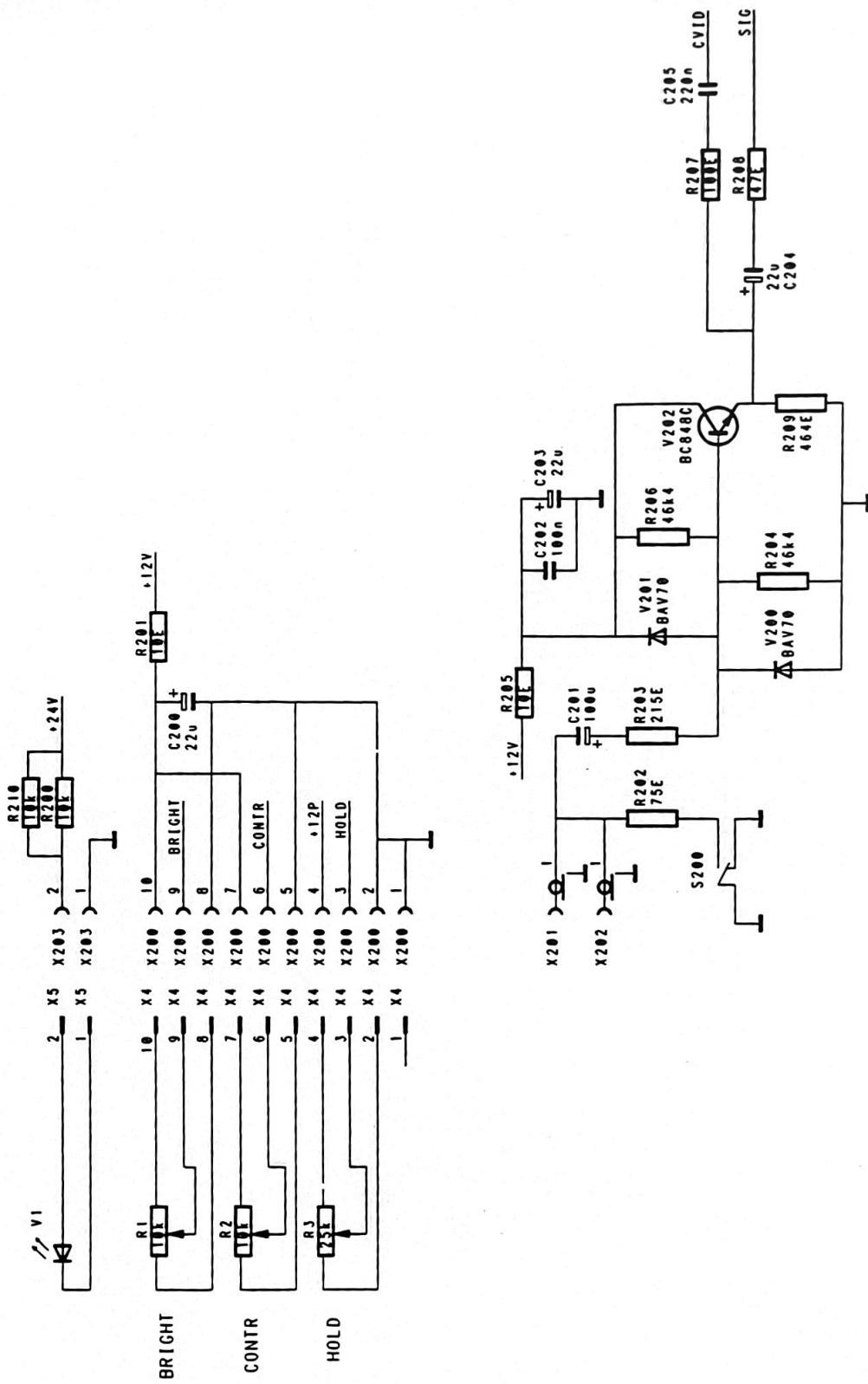
LDH2162 & LDH2163 MAIN BOARD : EHT STAGE DIAGRAM



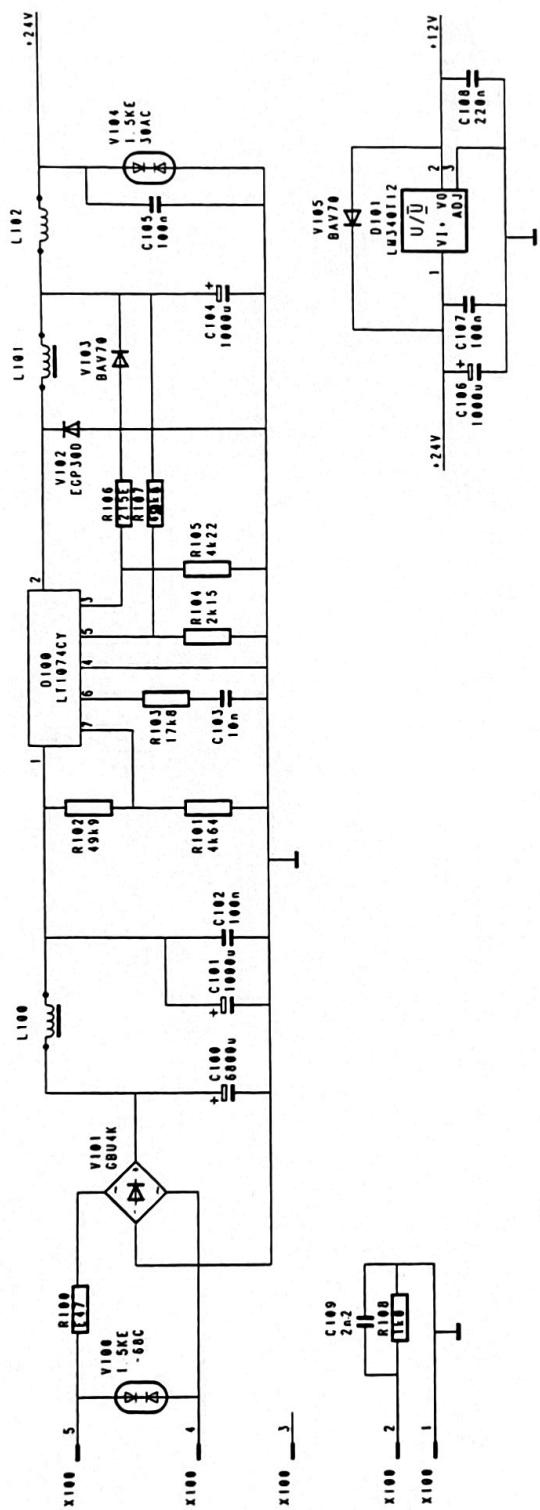
LDH2162 & LDH2163 MAIN BOARD : FRAME STAGE DIAGRAM



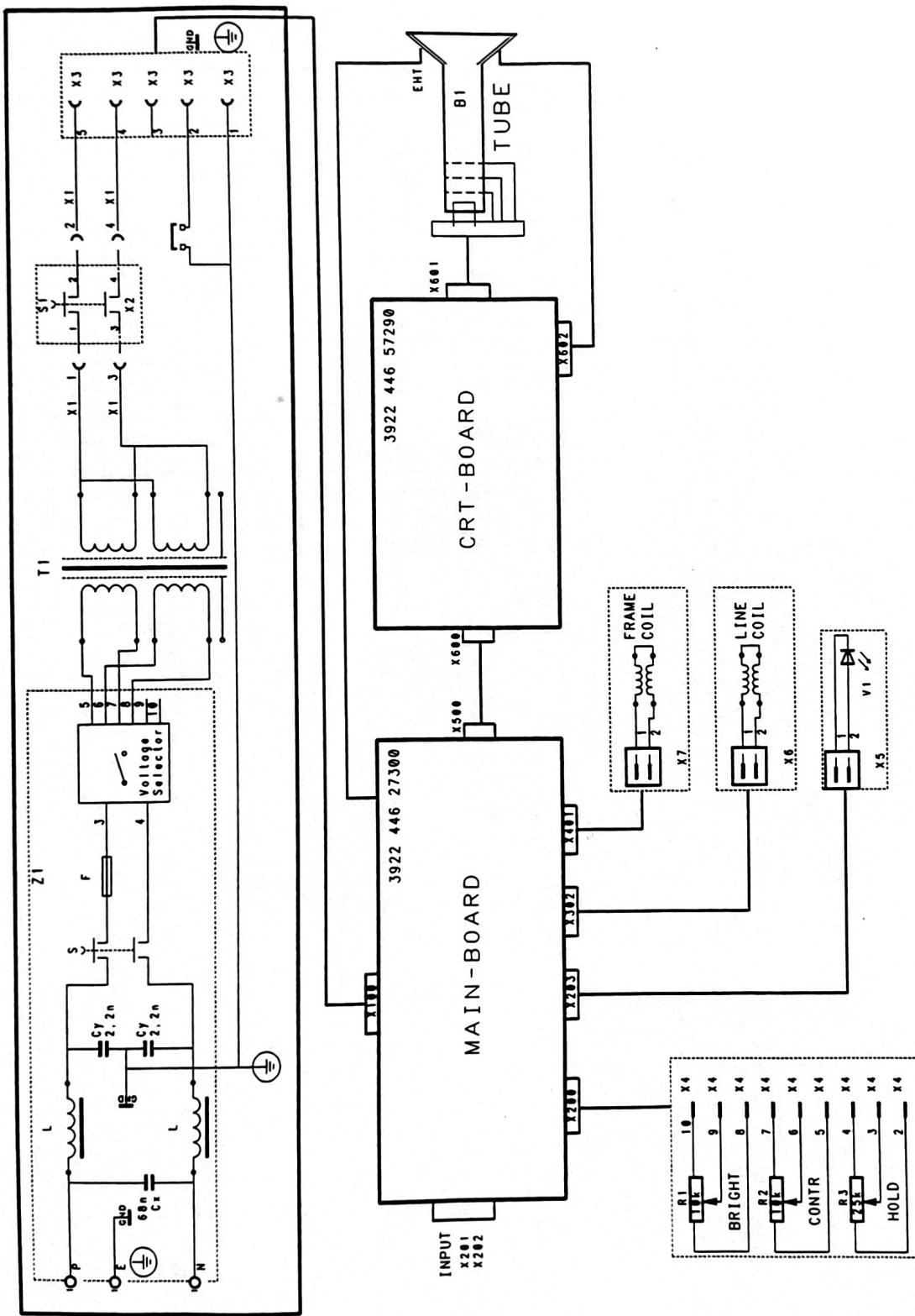
LDH2162 & LDH2163 MAIN BOARD : LINE STAGE DIAGRAM



LDH2162 & LDH2163 MAIN BOARD : VIDEO INPUT & CONTROLS DIAGRAM



LDH2162 & LDH2163 MAIN BOARD : POWER SUPPLY DIAGRAM



PHILIPS MONITOR LDH2162 & LDH2163 BLOCK DIAGRAM

ITEM NR.	ITEM NAME	REMARKS
SQ 42	SENSOR 1-3	HOOK WAIT SENSOR
SQ 43	SWITCH SAFETY	DOOR COVER LIMIT SWITCH

PNEUMATICAL ITEMS

ITEM NR.	ITEM NAME	REMARKS
YV 11	VALVE	HEAD VACUUM
YV 12	VALVE	HEAD DOWN
YV 13	VALVE	HOOK OPEN/CLOSE
YV 14	VALVE	LT STATION 1 VACUUM
YV 15	VALVE	LT STATION 2 VACUUM
YV 20	VALVE	HOOK ARM 1
YV 21	VALVE	HOOK ARM 2

SEVERAL ITEMS

ITEM NR.	ITEM NAME	REMARKS
SB 11	STOP SWITCH	EMERGENCY SWITCH
P1	I/F BOARD ASSY	-
M1	MOTOR ASSY	LX-AXIS MOTOR
M2	MOTOR ASSY	LY-AXIS MOTOR
M3	MOTOR ASSY	LZ-AXIS MOTOR
M4	MOTOR ASSY	LT-AXIS MOTOR
BRAKE	BRAKE	LX MAGNETIC BRAKE

CSM TRAYFEEDER 31 ITEM LIST

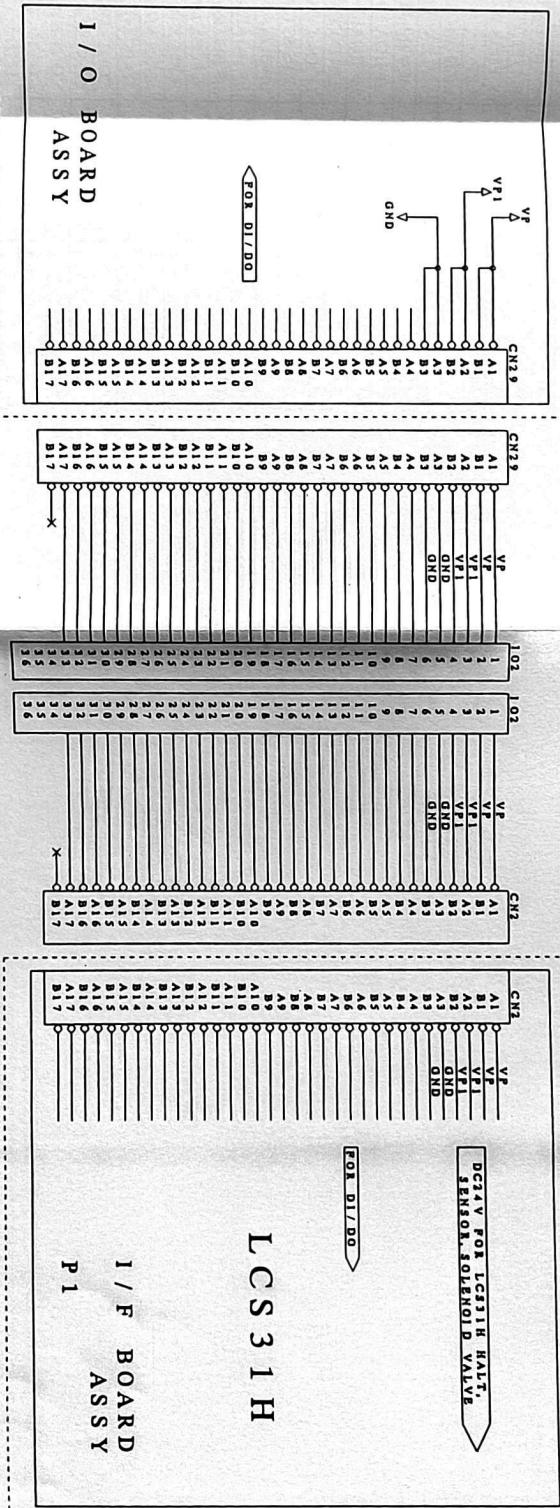
HARNESS (HNS) ITEMS

ITEM NR.	ITEM NAME	REMARKS
J600	HNS 2-1	LCS (I/01) ↔ I/F BOARD (CN3)
J602	HNS 3-1	MAIN M/C FG ↔ LCS FG
J603	HNS 301	DOOR COVER ↔ FG
J605	HNS 302	X-FLEX ↔ FG
J606	HNS 302	Y-FLEX ↔ FG
J607	HNS 302	Z-FLEX ↔ FG
J608	HNS 302	H-FLEX ↔ FG
J609	HNS 302	T-FLEX ↔ FG
J621	HNS 2-2	LCS (I/02) ↔ I/F BOARD (CN2)
J631	HNS 5-1	PI3 (PI LX,LY,LZ)
J632	HNS 5-2	PI4 (PI LT)
J633	HNS 5-3	Y-FLEX (LXP)
J636	HNS 5-6	LZP
J641	HNS 6-1	MO3 (MO LX,LY,LZ)
J642	HNS 6-3	Y-FLEX (LXM)
J645	HNS 6-2	MO4 (MO LT)
J651	HNS 7-1	I/F BOARD (CN4) ↔ EMG
J652	HNS 8-16	I/F BOARD (CN5) ↔ Z-BRAKE
J653	HNS 8-11	HEAD COVER LIMIT S/W
J654	HNS 8-11	DOOR COVER LIMIT S/W
J656	HNS 7-4	EMG STOP
J661	HNS 8-5	I/F BOARD (CN7) ↔ HOOK SENSOR, VALVE
J662	HNS 8-3	I/F BOARD (CN6) ↔ J666
J663	HNS 8-7	I/F BOARD (CN8) ↔ LT SENSOR, VALVE
J666	HNS 8-4	X-FLEX (HEAD SENSOR, VALVE)
J673	HNS 8-6	H-FLEX (HOOK SENSOR)
J690	HNS 1-6	MAIN MACHINE (I/O) ↔ J600 (EMG)
J691	HNS 4-1	MAIN MACHINE (I/O) ↔ J621 (DI/DO)
J692	HNS 1-5	CONTROLLER (PI3) ↔ J631 (PI LX,LY,LZ)
J693	HNS 1-7	CONTROLLER (PI4) ↔ J632 (PI LT)
J694	HNS 1-3	CONTROLLER (MO3) ↔ J641 (MO LX,LY,LZ)
J695	HNS 1-4	CONTROLLER (MO4) ↔ J645 (MO LT)
J700	HNS 1-9	MAIN M/C (XT23 DC24V) ↔ I/O BOARD TF (CN2)
J701	HNS 1-8	MAIN M/C (I/O CN9.10) ↔ I/O BOARD TF (CN9.10)
J702	HNS 1-10	MAIN M/C (XT23 EMG) ↔ I/O BOARD TF (CN6)
J703	HNS 1-11	I/O BOARD TF (CN20) ↔ J690

SENSOR ITEMS

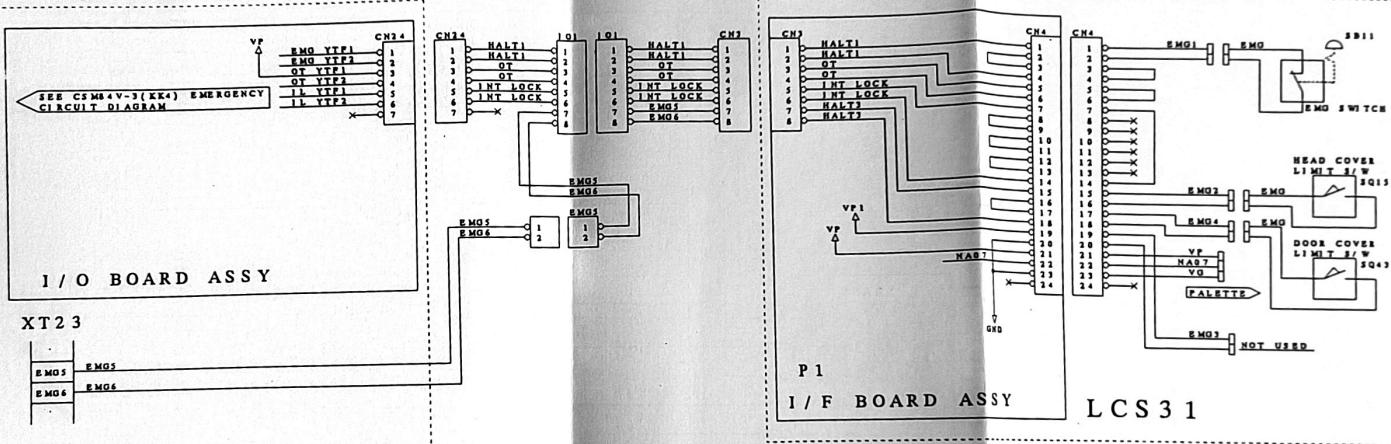
ITEM NR.	ITEM NAME	REMARKS
SQ11	PALLETTE SENS.	PALLETTE SET (RACK) SENSOR
SQ 12	SENSOR 1-1	HOOK OPEN SENSOR
SQ 13	SENSOR 1-1	HOOK CLOSE SENSOR
SQ 14	SENSOR 1-2	PALLETTE SET (STAGE) SENSOR
SQ 15	SWITCH SAFETY	HEAD COVER LIMIT SWITCH
SQ 19	PRESSURE SENS.	HEAD VACUUM SENSOR
SQ 20	SENSOR 1-1	HEAD DOWN SENSOR
SQ 25	SENSOR 1-4	LT STATION 1 VACUUM SENSOR
SQ 26	SENSOR 1-4	LT STATION 2 VACUUM SENSOR
SQ 40	SENSOR 1-5	HOOK FORWARD SENSOR
SQ 41	SENSOR 1-5	HOOK BACKWARD SENSOR

MAIN MACHINE



CSM TRAYFEEDER 31 POWER CIRCUIT DIAGRAM

MAIN MACHINE



CSM TRAYFEEDER 31 EMERGENCY CIRCUIT DIAGRAM

CSM TRAVELER 3 INTERCONNECTION DIAGRAM

