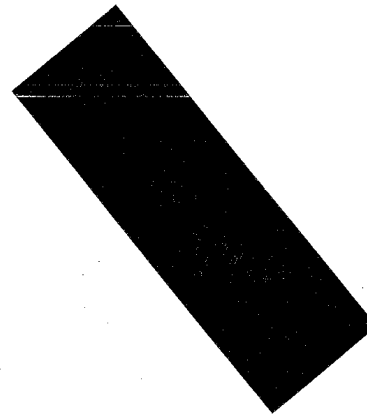


SECTION 7

Wiring Diagrams

7.1 GENERAL

This section contains wiring diagrams which, when used in conjunction with the troubleshooting procedures (Section 5), aid in isolating a malfunction to a replacement component or group of components.



T3 (413-0003-018) 208/230/460 -230 60 HZ		
INCOMING SERVICE	INPUT SIDE CONNECTIONS	OUTPUT CONNECTIONS
208 VAC 60 HZ	H3 TO FU1 JUMPER H2 TO FU2 H4 TO FU3	X1 TO SDC- TB9-1 X2 TO SDC- TB9-3 X3 TO SDC- TB9-5
230 VAC 60 HZ	H3 TO FU1 JUMPER H2 TO FU2 H1 TO FU3	X1 TO SDC- TB9-1 X2 TO SDC- TB9-3 X3 TO SDC- TB9-5
460 VAC 60 HZ	H3 TO FU1 JUMPER H2 TO FU2 H1 TO FU3	X1 TO SDC- TB9-1 X2 TO SDC- TB9-3 X3 TO SDC- TB9-5

T3 (413-0003-020) 415/380-230 50 HZ		
INCOMING SERVICE	INPUT SIDE CONNECTIONS	OUTPUT CONNECTIONS
415 VAC 50 HZ	H3- TO FU1 H2- TO FU2 H1- TO FU3	X1 TO SDC- TB9-1 X2 TO SDC- TB9-3 X3 TO SDC- TB9-5
380 VAC 50 HZ	H3- TO FU1 H2- TO FU2 H4- TO FU3	X1 TO SDC- TB9-1 X2 TO SDC- TB9-3 X3 TO SDC- TB9-5

T3 (413-0003-019) 575-230 60 HZ		
INCOMING SERVICE	INPUT SIDE CONNECTIONS	OUTPUT CONNECTIONS
575 VAC 60 HZ	H3 TO FU1 H2 TO FU2 H1 TO FU3	X1 TO SDC- TB9-1 X2 TO SDC- TB9-3 X3 TO SDC- TB9-5

T3-MAIN ISOLATION TRANSFORMER

(NOTE 2)

(NOTE 1)

HEATER VALUES		
CONTACTOR NAME	60 HZ SERV.	50 HZ SERV.
SPINDLE MTR. CONT.	N3 (409-3001-015)	N33 (409-3001-030)
FLOOD MTR. CONT.	N8 (409-3001-022)	N11 (409-3001-027)
SPINDLE FAN CONT.	N7 (409-3001-026)	N8 (409-3001-022)

AC LINE	FU1,2,3 VALUES	HURCO PART NO.
208 VAC	FRS 25- 600 VAC	409-1001-045
230 VAC	FRS 25- 600 VAC	409-1001-045
380 VAC	FRS 15- 600 VAC	409-1001-032
415 VAC	FRS 15- 600 VAC	409-1001-032
460 VAC	FRS 12- 600 VAC	409-1001-029
575 VAC	FRS 10- 600 VAC	409-1001-045

HOUR METER	
60 HZ SERVICE	50 HZ SERVICE
ENGLER # 10 NG 7 405-1003-001	ENGLER # 60 NG 7 405-1003-002

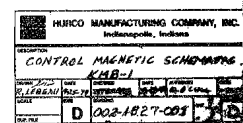
LUBE TIMER	
60 HZ SERVICE	50 HZ SERVICE
REPEAT CYCLE TIMER 405-4001-005	REPEAT CYCLE TIMER 405-4001-008

NOTES

1. ON KMB1 ONLY.
2. ON KMB4-m ONLY.

HURCO MANUFACTURING COMPANY, INC. Indianapolis, Indiana	
VOLTAGE CONVERSION CHART	
FROM	TO
115V	230V
230V	115V
460V	230V
230V	460V
575V	230V
230V	575V
N/A	D
002-1854-001	1 A

Figure 7-1 Voltage Conversion Chart



7-5/7-6

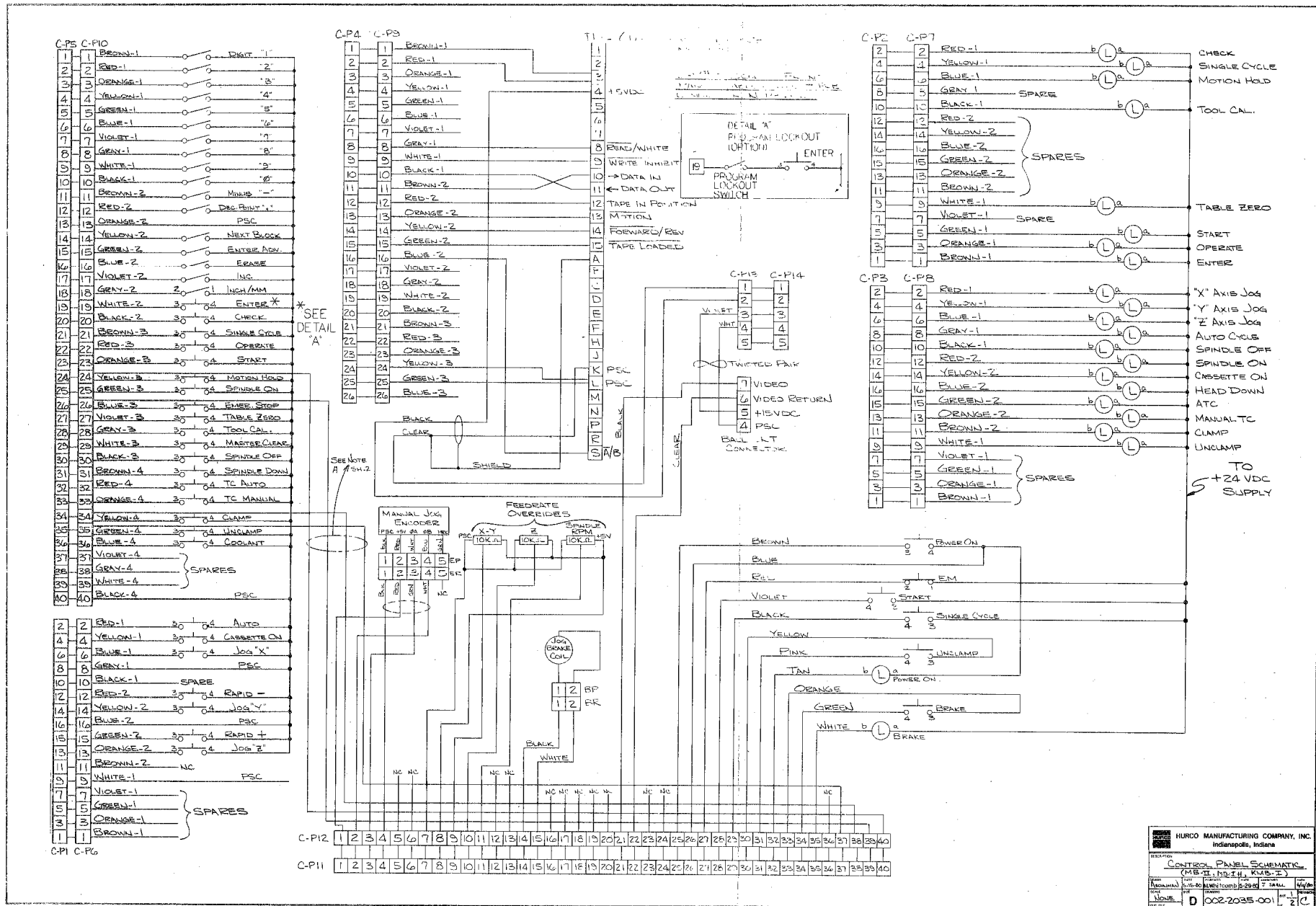


Figure 7-3 Control Panel Schematic (Sheet 1 of 2)

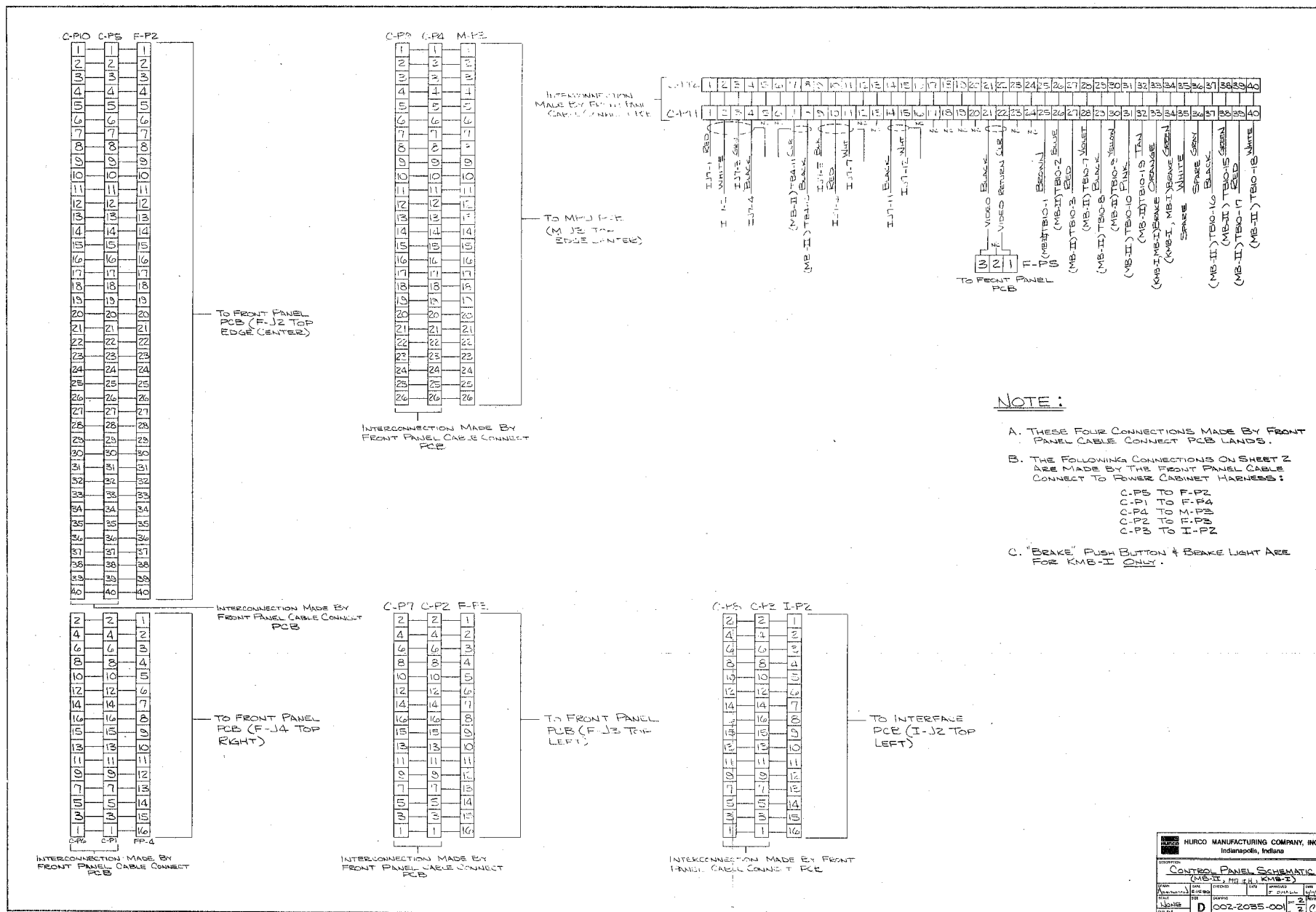
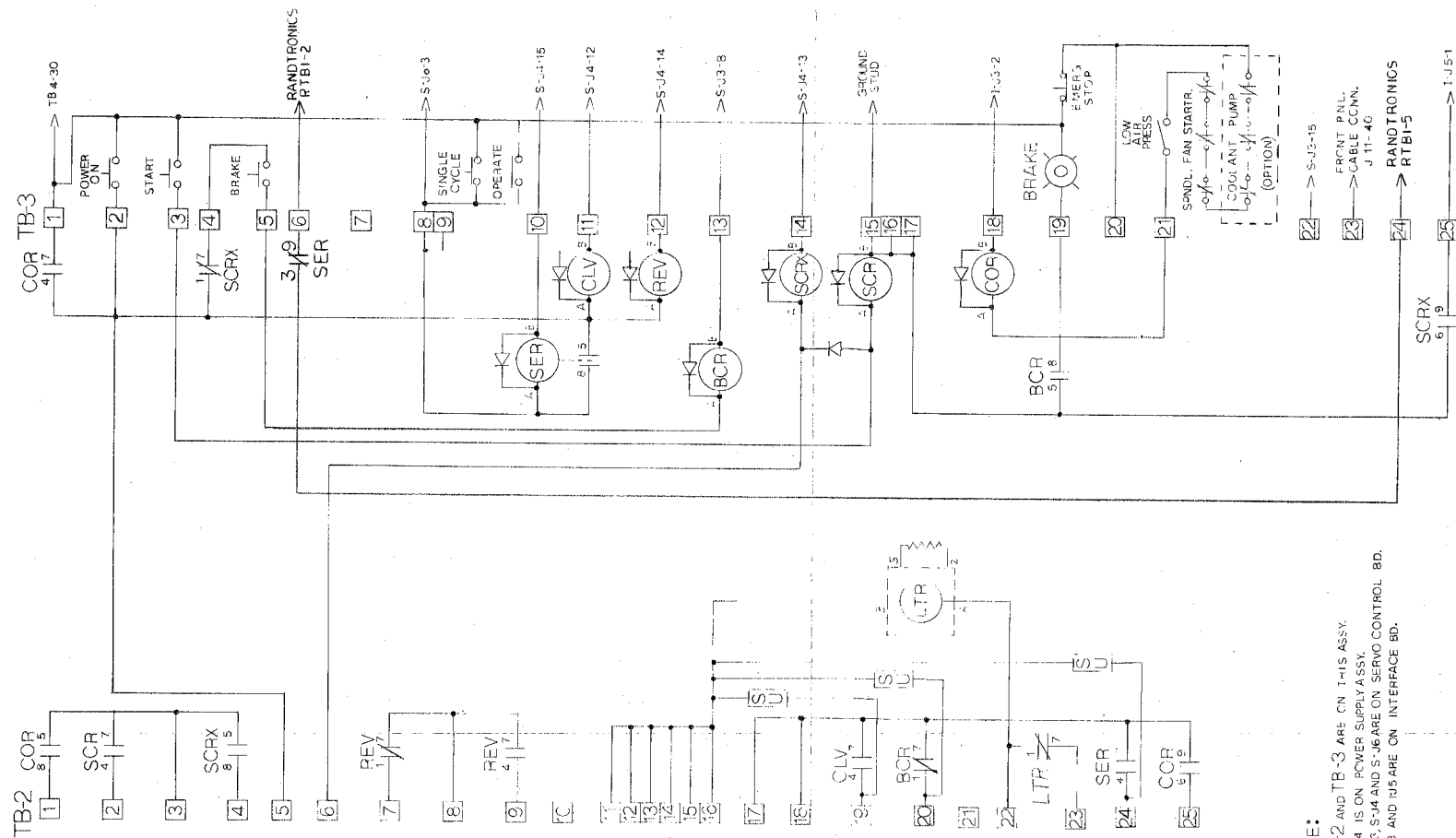


Figure 7-3 Control Panel Schematic (Sheet 2 of 2)



NOTE:

TB-2 and TB-3 ARE ON THIS ASSY.
 TB-4 IS ON POWER SUPPLY ASSY.
 S-J3, S-J4 and S-J6 ARE ON SERVO CONTROL BD.
 I-J3 and I-J5 ARE ON INTERFACE BD.

Figure 7-4 Relay Panel Schematic

7-11/7-12

HURCO MANUFACTURING COMPANY, INC. Indianapolis, Indiana					
CNC RELAY PANEL ASSEMBLY					
DRAWN BY Ncne	DATE 11/18/83	CHECKED J. MCKEY	DATE 11/18/83	DESIGNED J. MCKEY	REVISED J. MCKEY
SCALE C	PART 0021819 001	SHEET 2	OF 2	REVISION J	DATE 11/18/83

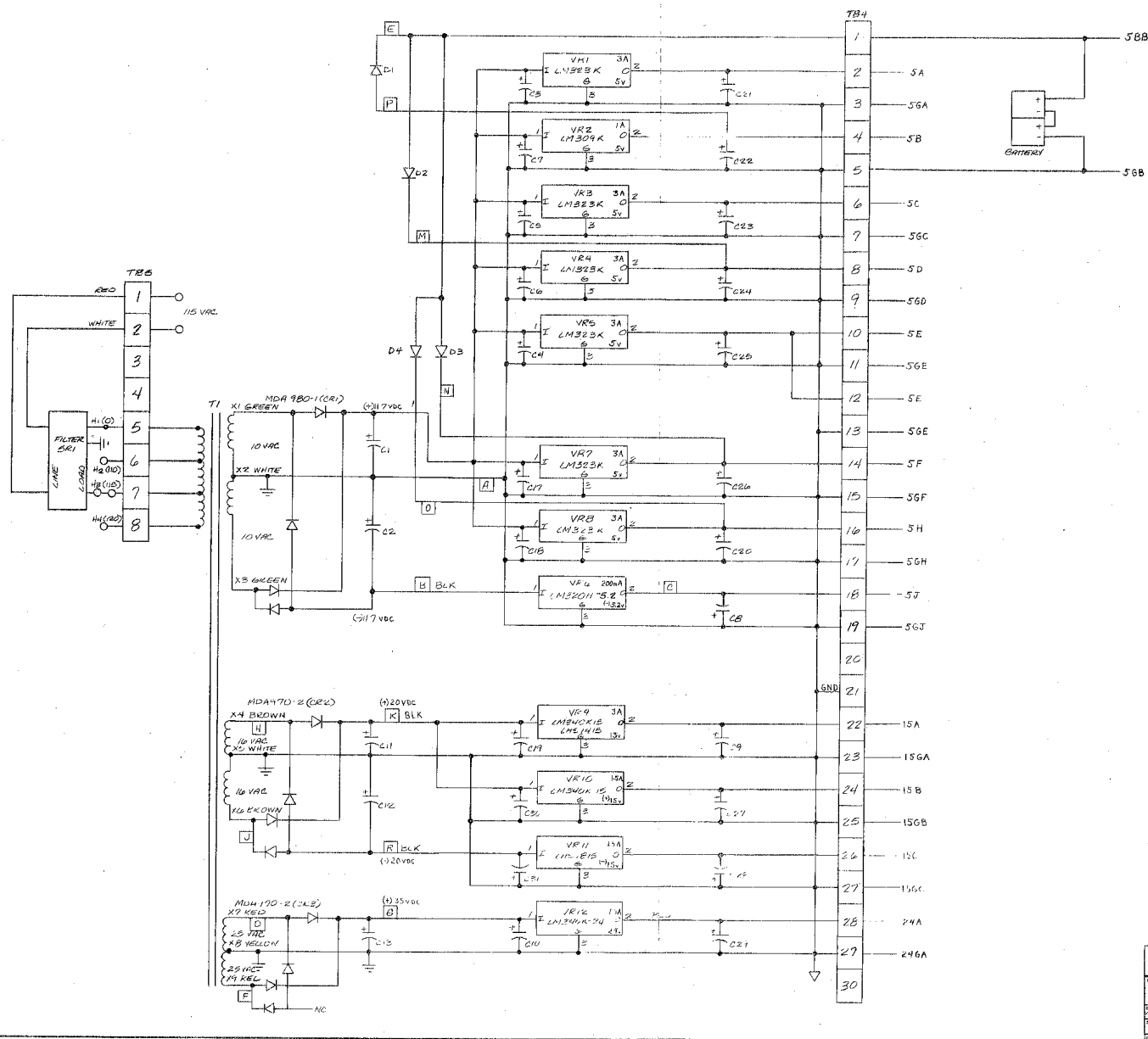


Figure 7-5 DC Power Supply Schematic

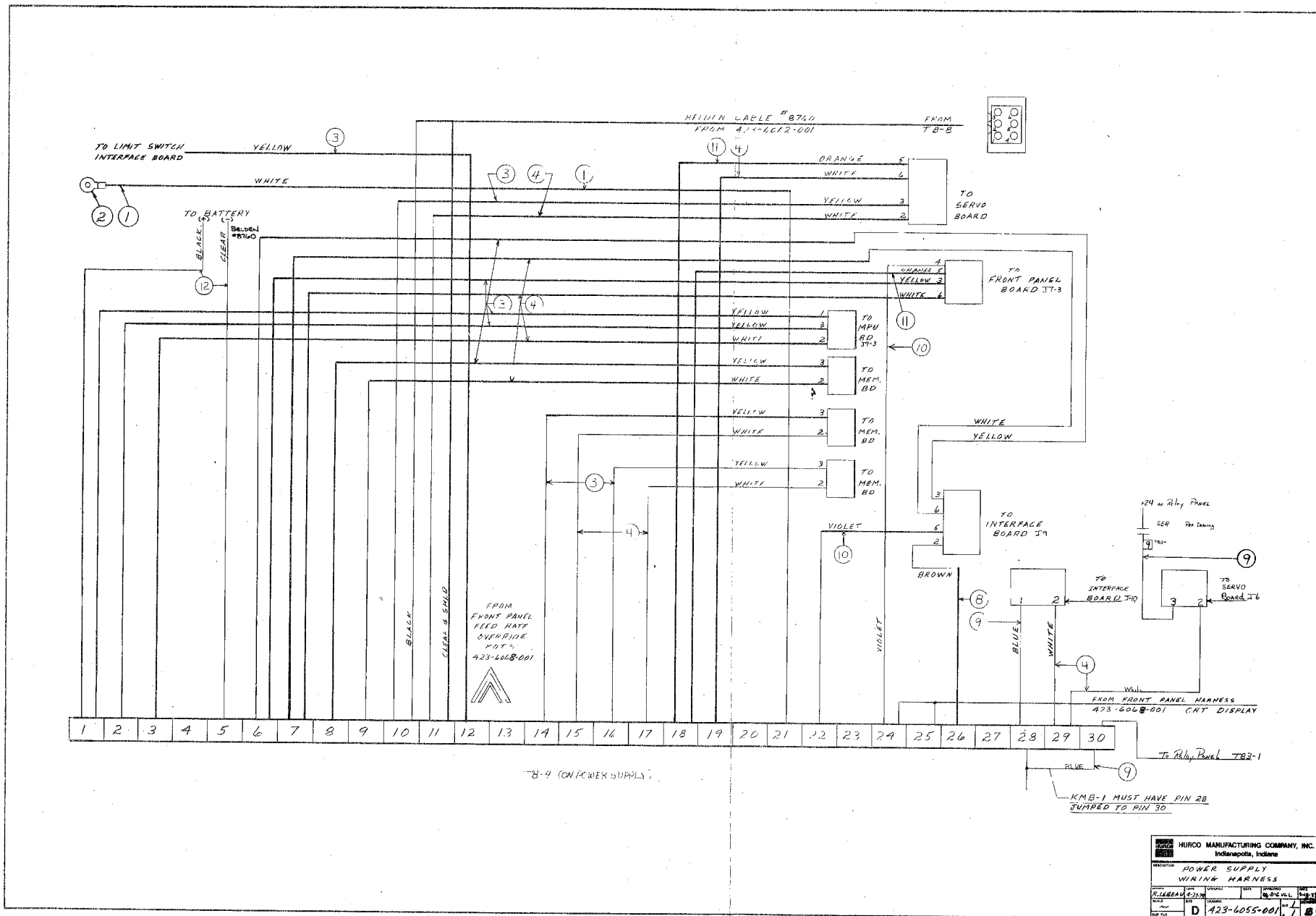
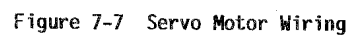
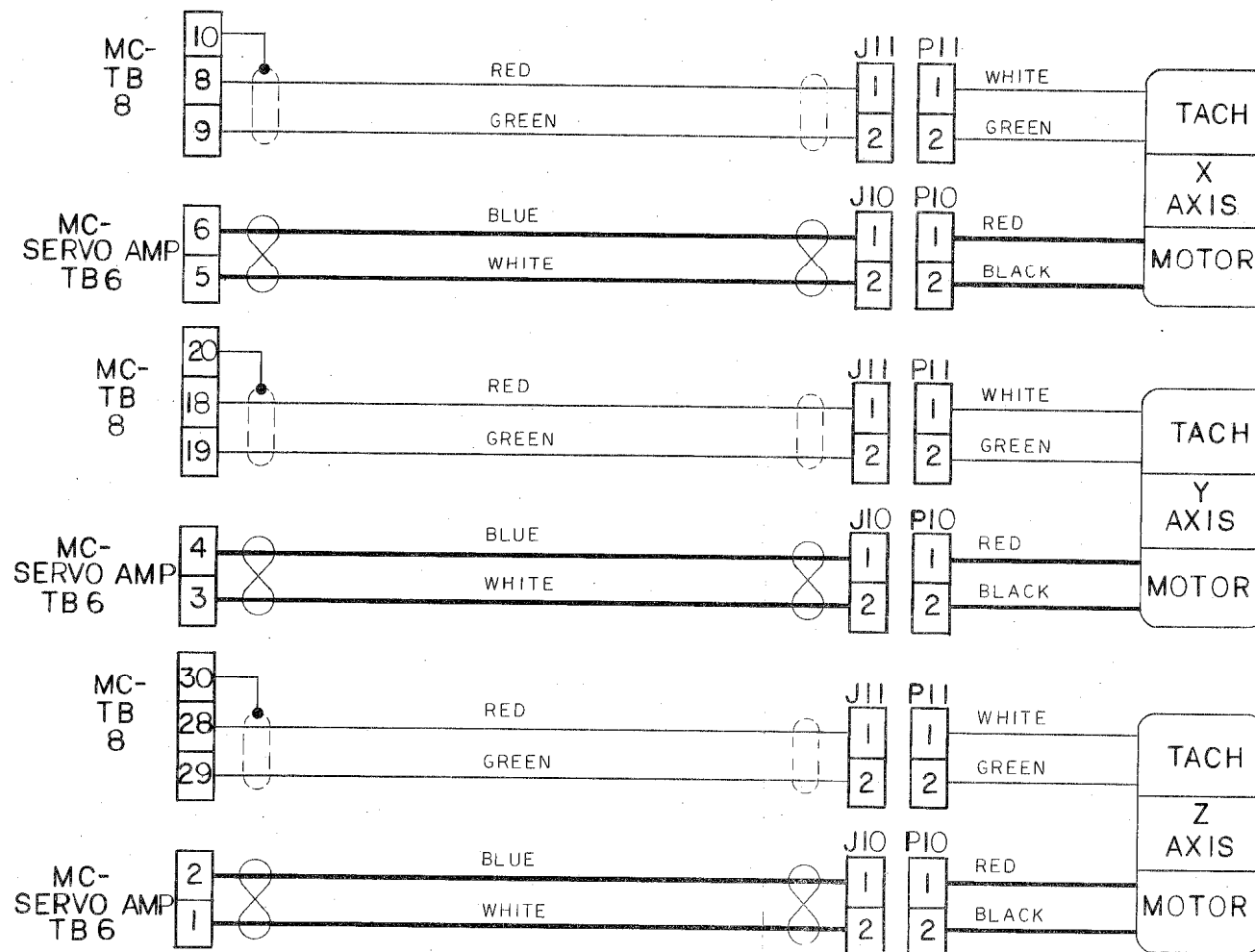


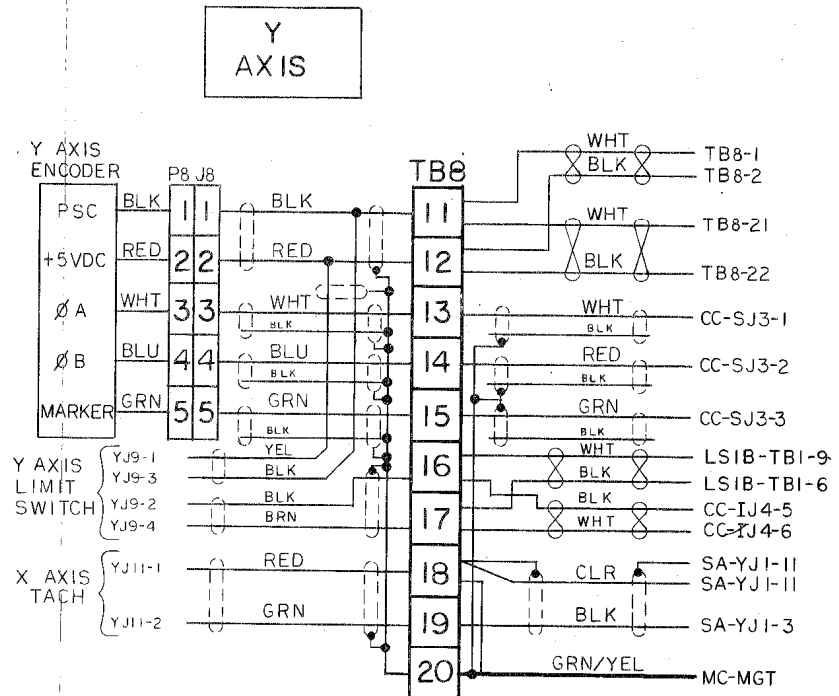
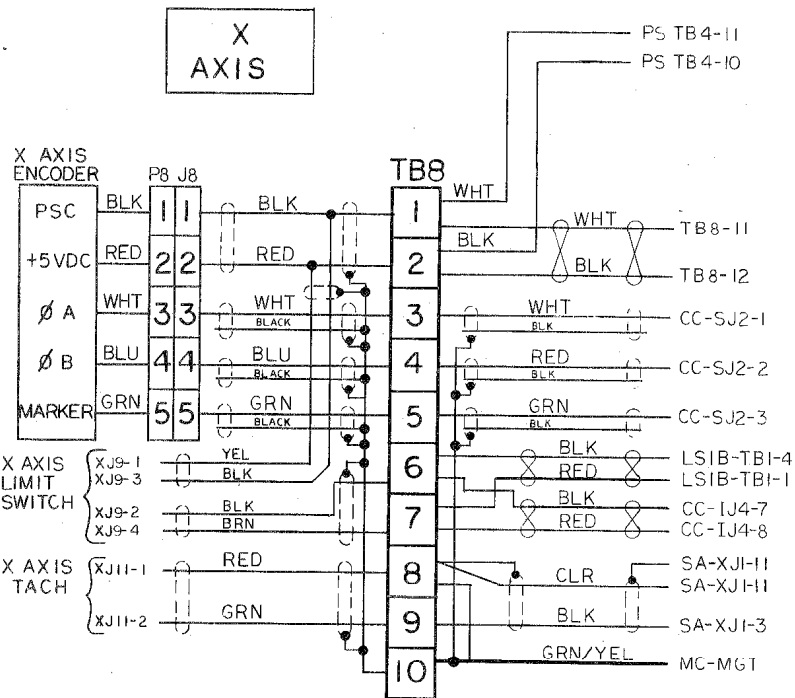
Figure 7-6 Power Supply Harness





HURCO MANUFACTURING COMPANY, INC. Indianapolis, Indiana			
MOTOR & TACHOMETER SCHEMATIC			
DATE	REV	TR	PR
NONE	D	002-1859-001	7A

Figure 7-8 Motor and Tach Schematic



ABBREVIATIONS

CC	COMPUTER CARD CAGE
SA	SERVO AMPLIFIER
MC	MAIN CABINET
LSIB	LIMIT SWITCH INTERFACE BOARD
PS	POWER SUPPLY

HURCO MANUFACTURING COMPANY, INC.			
Indianapolis, Indiana			
X, Y, Z, AND TB8			
SCHEMATIC			
DATE	REV	APP'D	CHK'D
NONE	D	002-1851-001	2

Figure 7-9 X, Y, Z and TB8 Schematic (Sheet 1 of 2)

Z AXIS

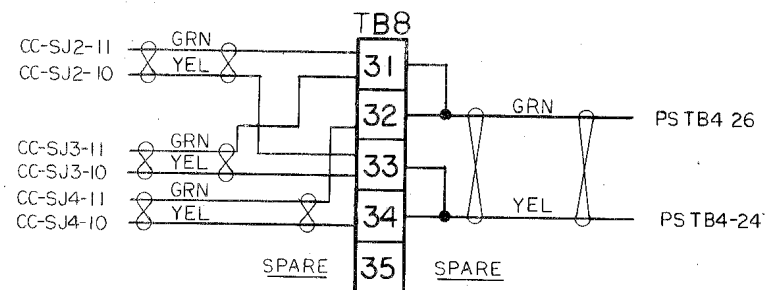
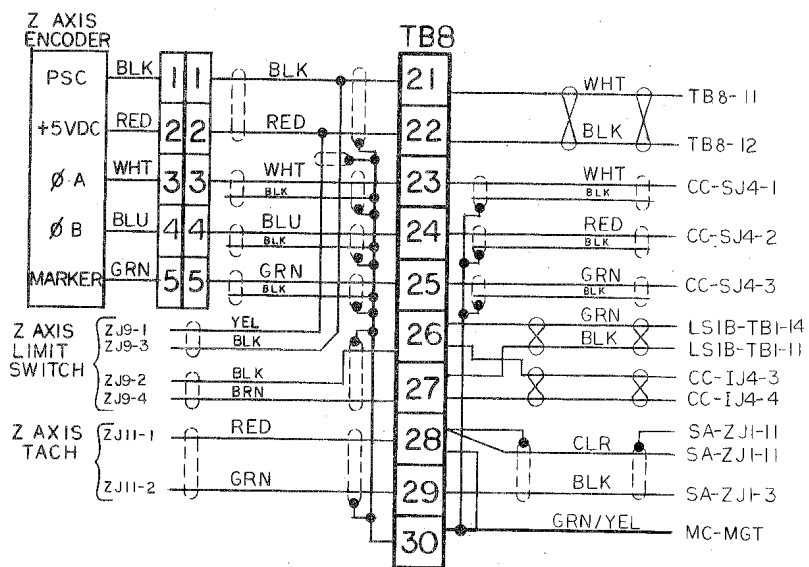
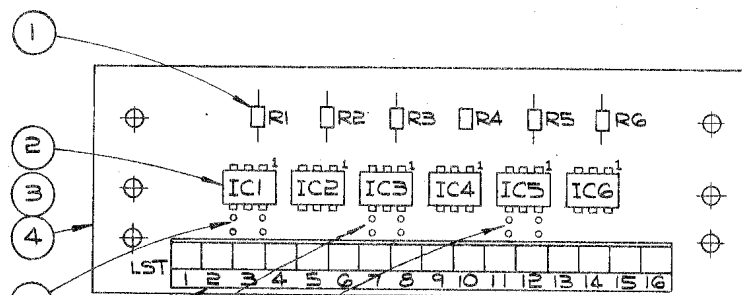
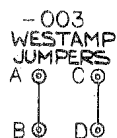
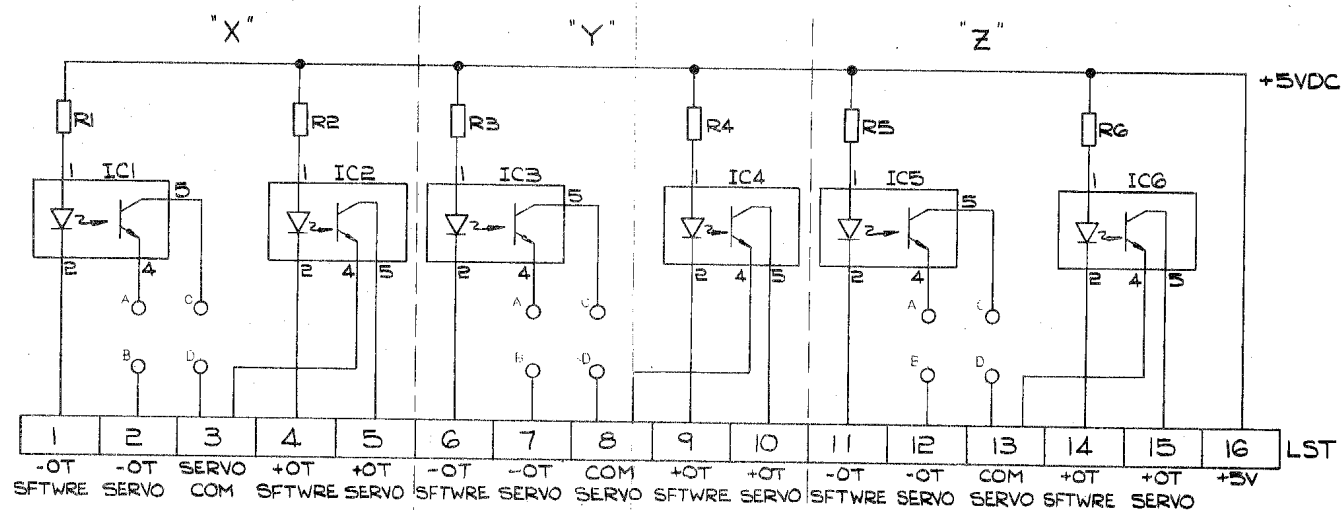


Figure 7-9 X, Y, Z and TB8 Schematic (Sheet 2 of 2)

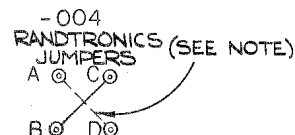


NOTE:
R1 THRU R6 ARE 470 Ω 1/4
WATT 5%. IC1 THRU IC6 ARE
HIUGE. LST-WAGO #238-116
PC TERMINAL BLOCK

-004 NOTES:
FOR RANDTRONICS SERVO AMP
APPLICATIONS- DOTTED JUMPER
RUN IS INSTALLED ON NON-COMPONENT
SIDE. USE ITEM #5 (6) PLACES.



COMPONENT SIDE
VIEW "A"



HURCO MANUFACTURING COMPANY, INC. Indianapolis, Indiana			
DESCRIPTION AXES LIMIT SWITCH BOARD (PHYSICAL SCHEM)			
DRAWN RICH	DATE 1/18/81	CHECKED TMW	DATE 1/13/81
SCALE 2:1	SIZE C	QUANTITY 415-0102	REV 1 B

Figure 7-10 Axis Limit Switch Board