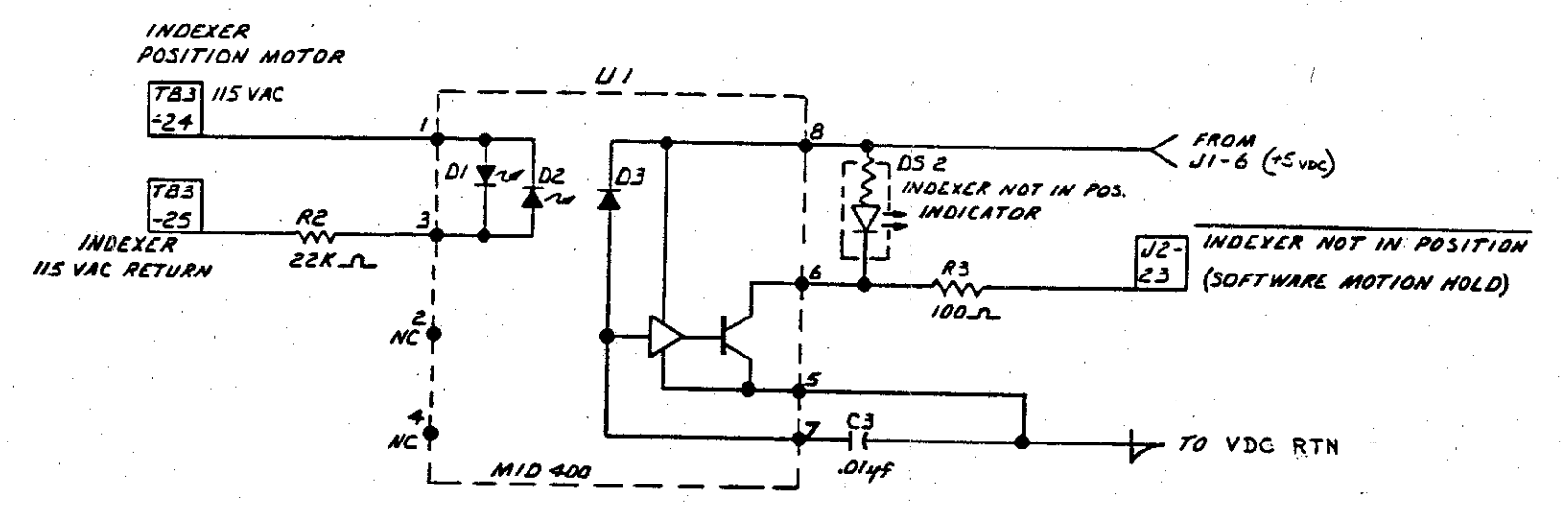
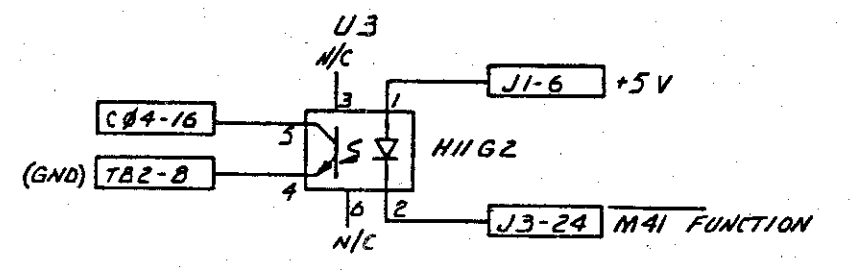
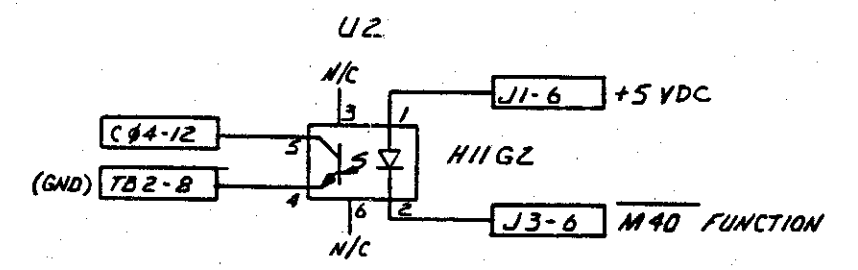
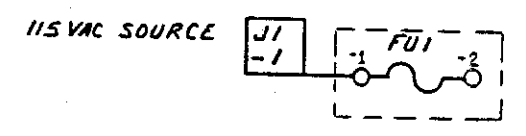
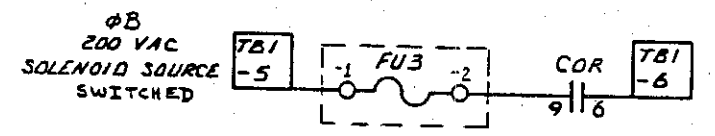
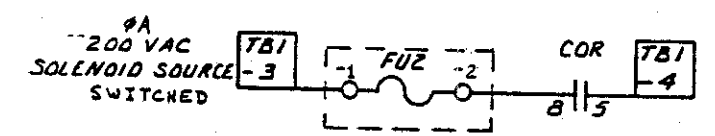
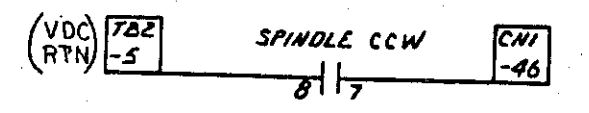
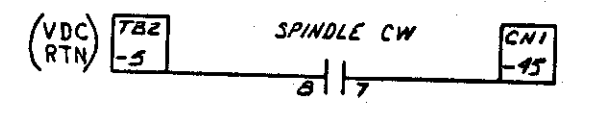
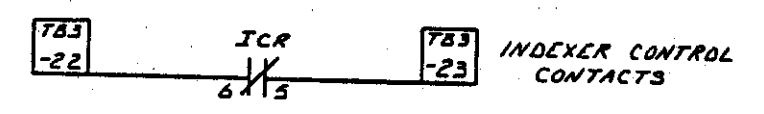
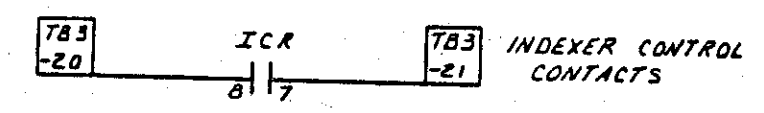
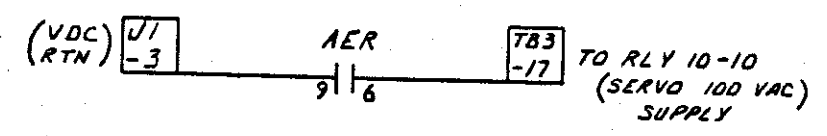
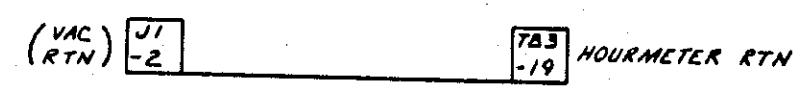
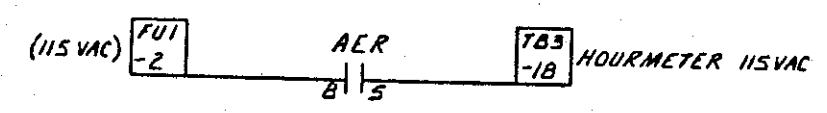
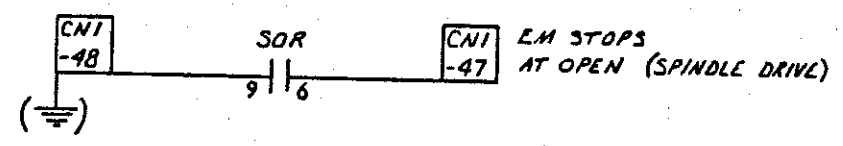
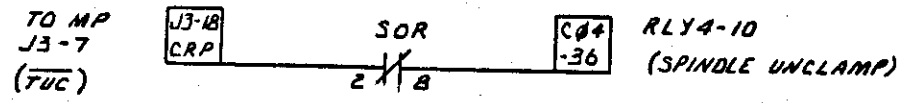
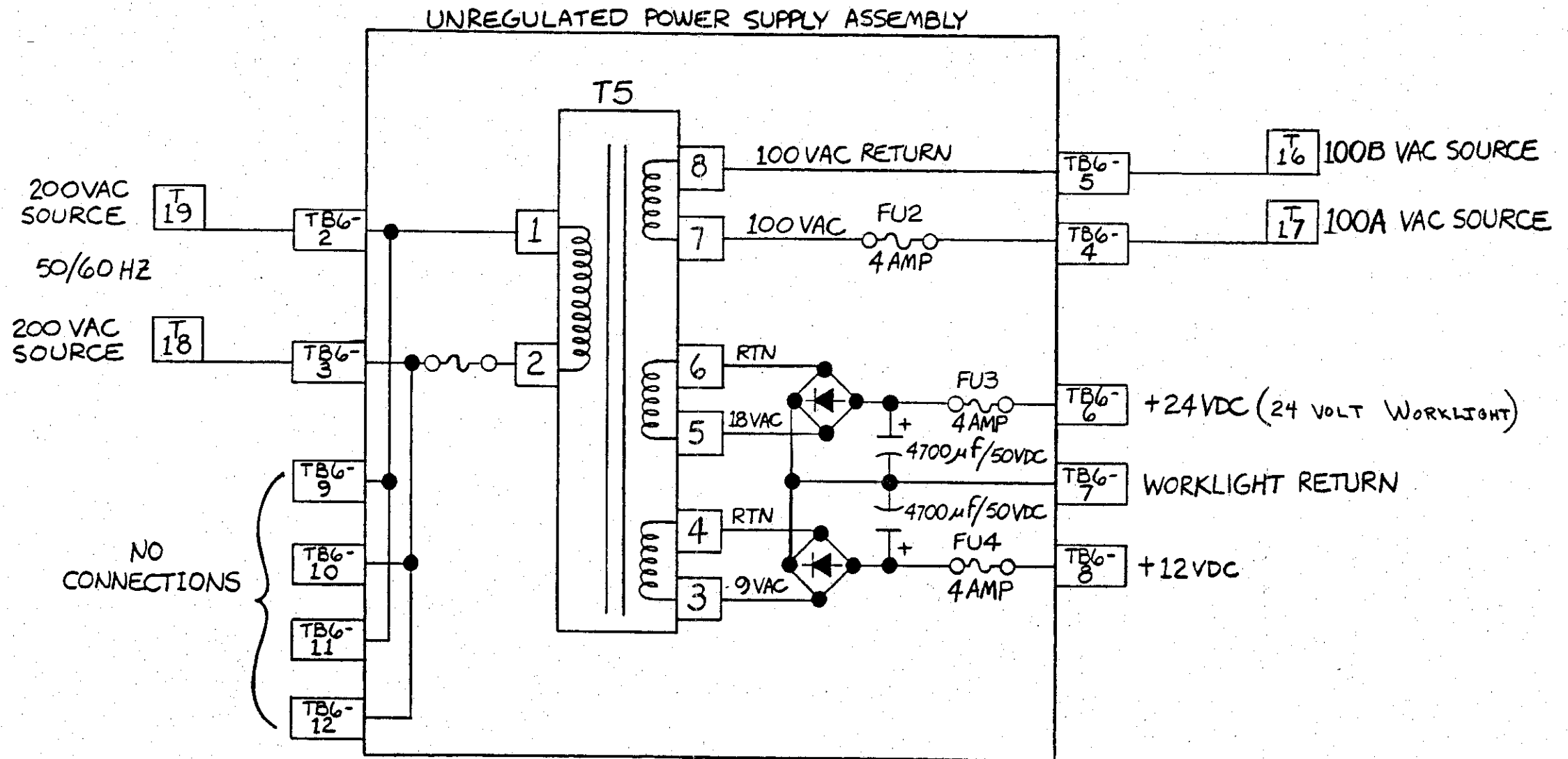


QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
SURFACE TREATMENT		EXCEPT AS NOTED	
NONE		ALL DIMENSIONS IN INCHES TOLERANCES DECIMAL 0 = .000 00 = .005 000 = .008 0000 = .010 00000 = .015	
HEAT TREATMENT		MURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
NONE		DESCRIPTION CONTROL RELAY PCB	
FIRST USED ON		DATE 26 NOV 82	
BMC-30		DATE 26 NOV 82	
THIRD ANGLE PROJECTION		APPROVED DATE 26 NOV 82	
SCALE NONE		CHECKED TAN	
UNIT OF MEAS PC		DATE 26 NOV 82	
		DRAWING D	
		NO. 0023210-014	
		REV. 1	
		A	



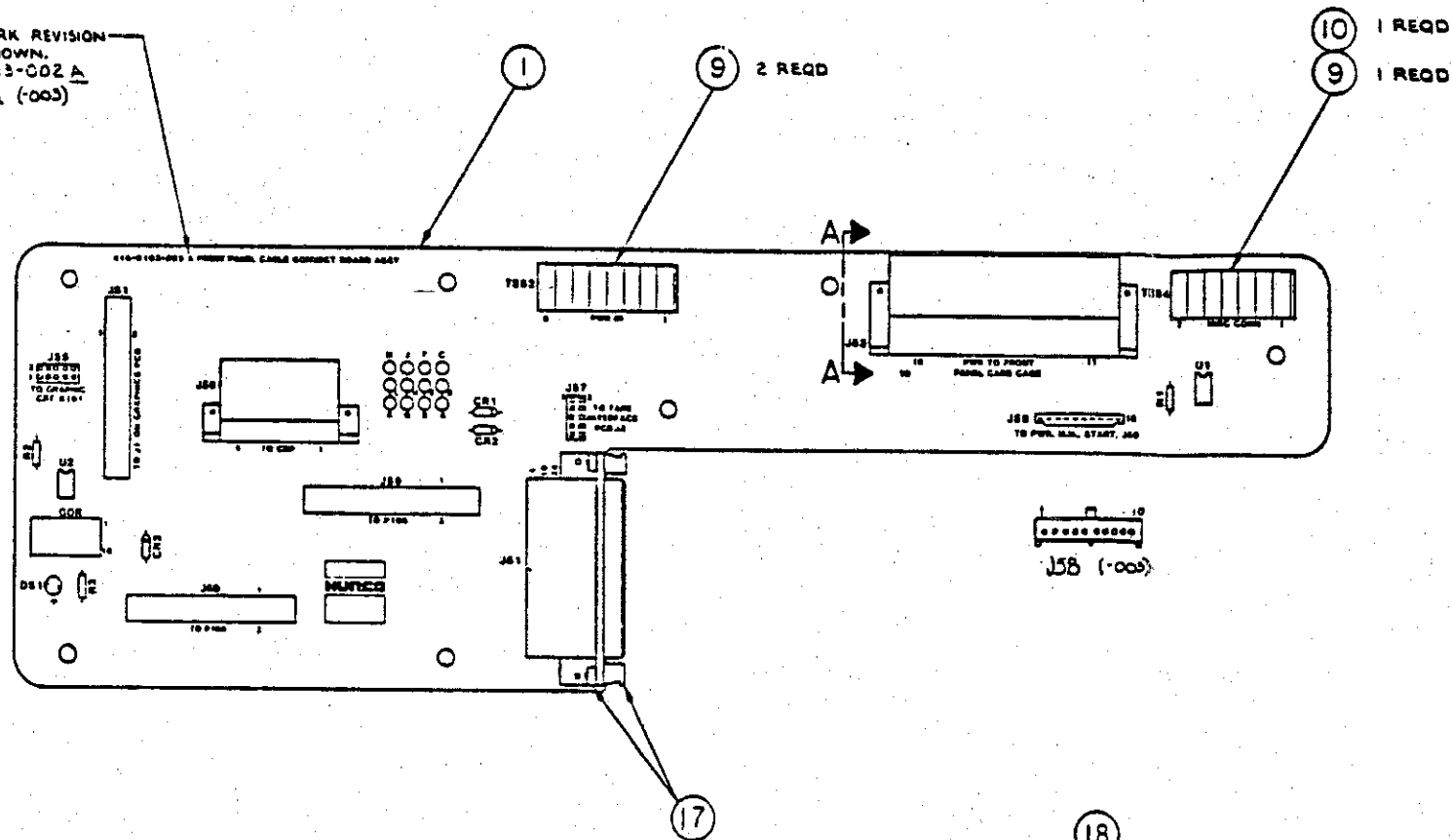
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
SURFACE TREATMENT		EXCEPT AS NOTED	
NONE		ALL DIMENSIONS IN INCHES	
HEAT TREATMENT		TOLERANCES DECIMAL	
NONE		.015 ± .002	
FIRST USED ON		BREAK ALL SHARP EDGES	
BMC-30		THIRD ANGLE PROJECTION	
		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
DESCRIPTION			
CONTROL RELAY PCB			
DATE: 8/21/84	CHECKED: TAW	DATE: 26 NOV 84	APPROVED: [Signature]
SCALE: 1/8" = 1"	SIZE: D	DRAWING: 0023210-014	REV: A



- 1) T
XX NUMBERS ARE TERMINAL STRIP PIN NUMBERS LOCATED ON THE MACHINE RELAY ASSEMBLY.
- 2) REFERENCE 002-3203-001/-003 POWER DISTRIBUTION PANEL.

QTY	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
SURFACE TREATMENT		EXCEPT AS NOTED	HURCO MANUFACTURING COMPANY INC. INDIANAPOLIS, IN U.S.A.
HEAT TREATMENT		ALL DIMENSIONS IN INCHES TOLERANCES DECIMAL 0 .030 00 .015 000 .005 0000 .0005 ANGULAR ±0°30'	
FIRST USED ON		THIRD ANGLE PROJECTION	DESCRIPTION UNREGULATED POWER SUPPLY SCHEMATIC
BMC 30/40/50		DRAWN: TMW CHECKED: TMW DATE: NOV 86 APPROVED:	DATE: NOV 86 DATE: NOV 86 DATE: NOV 86
UNIT OF MEAS		SCALE: B	DRAWING: 002-3210-015 SHT: 1 of 1 REV: A

PERMANENTLY MARK REVISION
LEVEL IN AREA SHOWN.
EXAMPLE: 415-0193-002 A
or (-003)

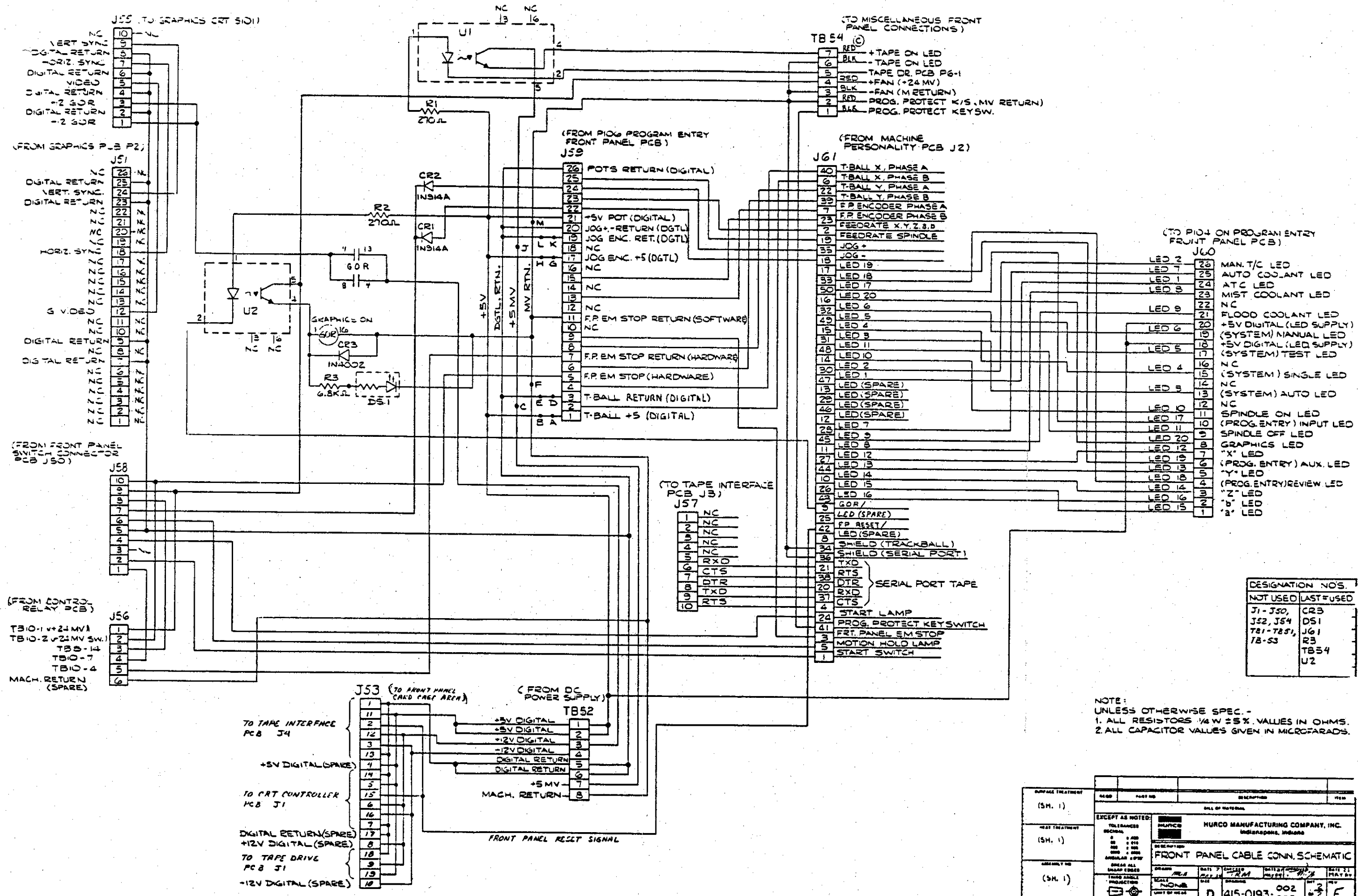


SECTION A-A
INSTALLATION OF RIVET
TYPICAL 6 PLACES
NOTE: INSTALL RIVET FROM THE
BOTTOM OF THE PC BOARD

NOTE
FOR PARTS NOT IDENTIFIED BY ITEM NUMBER
SEE PARTS LIST 'REMARKS' COLUMN FOR
CORRESPONDING REFERENCE DESIGNATION

QTY	PART NUMBER	ITEM DESCRIPTION	ITEM
1	406-0808-013	HEADER, 10 PIN	J58 19
6	111-0241-008	RIVET, POP, 1/32 DIA x 1/4 GRIP, AL	18
1	406-0803-355	LATCHING BLOCK SET	J61 17
1	406-0803-348	CONNECTOR, RIGHT ANGLE, 50 PIN	J61 16
3	406-0802-037	HEADER, STRAIGHT, 26 PIN	J51, J59, J60 15
2	406-0803-315	HEADER, STRAIGHT POST, 10 POS	J55, 57 14
1	406-0803-070	RECEPTACLE, DIP STRIP, 10 POS	J58 13
1	406-0803-681	HEADER, RIGHT-ANGLE, 19 POS	J53 12
1	406-0803-878	HEADER, RIGHT-ANGLE, 6 POS	J56 11
1	406-4004-011	TERMINAL-RAIL, 3 POLE	TB54 10
3	406-4004-007	TERMINAL-RAIL, 4 POLE	TB52, 54 9
2	417-0004-005	PHOTON COUPLED ISOLATOR	U1, U2 8
1	403-2001-020	RELAY, 2 FORM C, 24VDC	GOR 7
1	411-2001-017	LED, SNAP-IN, GREEN	DS1 6
2	417-0001-001	SILICON RECTIFIER IN914A	CR1, 2 5
1	417-0001-003	SILICON RECTIFIER IN4002	CR3 4
1	407-0007-033	RESISTOR, 6.8K ~ 1/4 W 5% CARBON FILM	R3 3
2	407-0007-058	RESISTOR, 270 ~ 1/4 W 5% CARBON FILM	R1, R2 2
1	414-0183-002	PC BOARD	1
003	002	PARTS LIST	

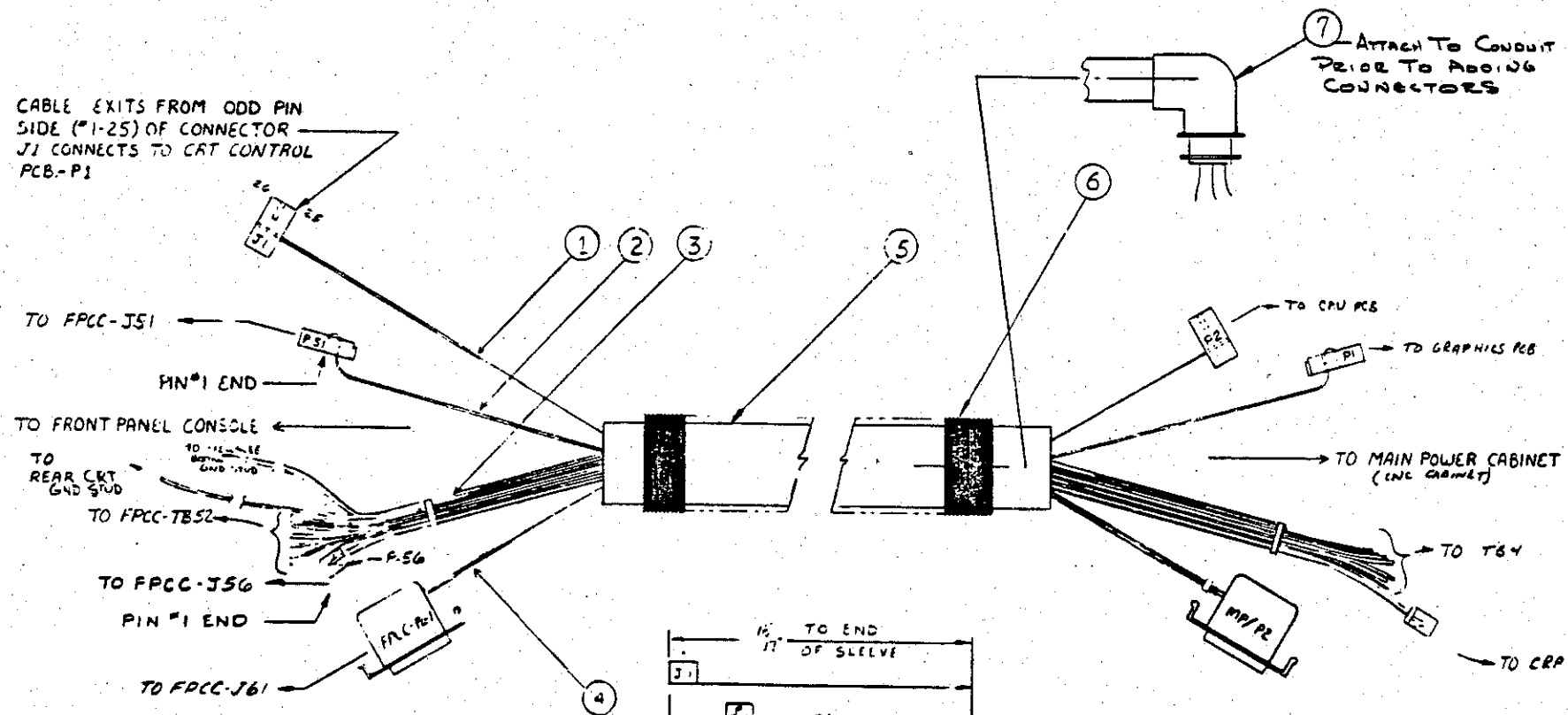
SURFACE TREATMENT	EXCEPT AS NOTED	MURCO HURCO MANUFACTURING COMPANY INC INDIANAPOLIS, IN U.S.A.			
NONE	ALL DIMENSIONS IN INCHES TOLERANCES DECIMAL 0 .030 00 .015 000 .008 0000 .0005 ANGULAR .010	DESCRIPTION FRONT PANEL CABLE CONNECT BOARD ASSEMBLY			
HEAT TREATMENT	BREAK ALL SHARP EDGES	DRAWN	DATE	CHECKED	DATE
NONE		1/1	JUN 84	1/1	JUL 84
FIRST USED ON	THIRD ANGLE PROJECTION	SCALE	SIZE	DRAWING	SMT
008-2803-011 THRU -020 MD-3		1/1	D	415-0193-002	1
		UNIT OF MEAS			REV
		PC		003	2 E



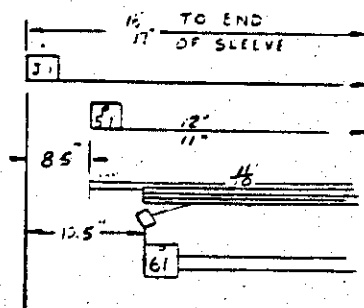
DESIGNATION NOS.	
NOT USED	LAST #USED
J1 - J50	CR3
J52, J54	DS1
T81-T85, J61	J61
T8-S3	R3
	TB54
	U2

NOTE:
 UNLESS OTHERWISE SPEC. -
 1. ALL RESISTORS 1/4 W ±5% VALUES IN OHMS.
 2. ALL CAPACITOR VALUES GIVEN IN MICROFARADS.

SURFACE TREATMENT		ALCO	PLAT NO	DESCRIPTION	REV
(SH. 1)				BILL OF MATERIALS	
HEAT TREATMENT		EXCEPT AS NOTED:		HURCO MANUFACTURING COMPANY, INC. Indianapolis, Indiana	
(SH. 1)		FRONT PANEL CABLE CONN. SCHEMATIC		DATE: 7/28/82 DRAWN: JMB CHECKED: TRM DATE: 7/28/82 REV: 2	
ASSEMBLY NO		D 415-0193-002		E	



NOTE:
 1. ABBREVIATIONS:
 CRP → CONTROL RELAY PCB
 FPCC → FRONT PANEL CABLE CONNECT IXX
 MC → MAIN POWER CABINET (INC. CABINET)
 CC → CARD CAGE



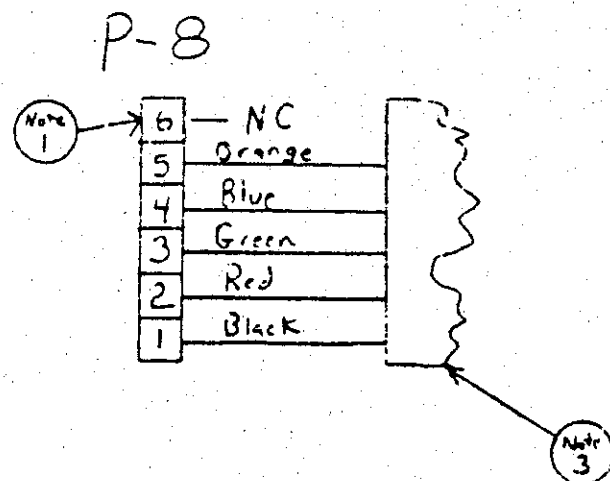
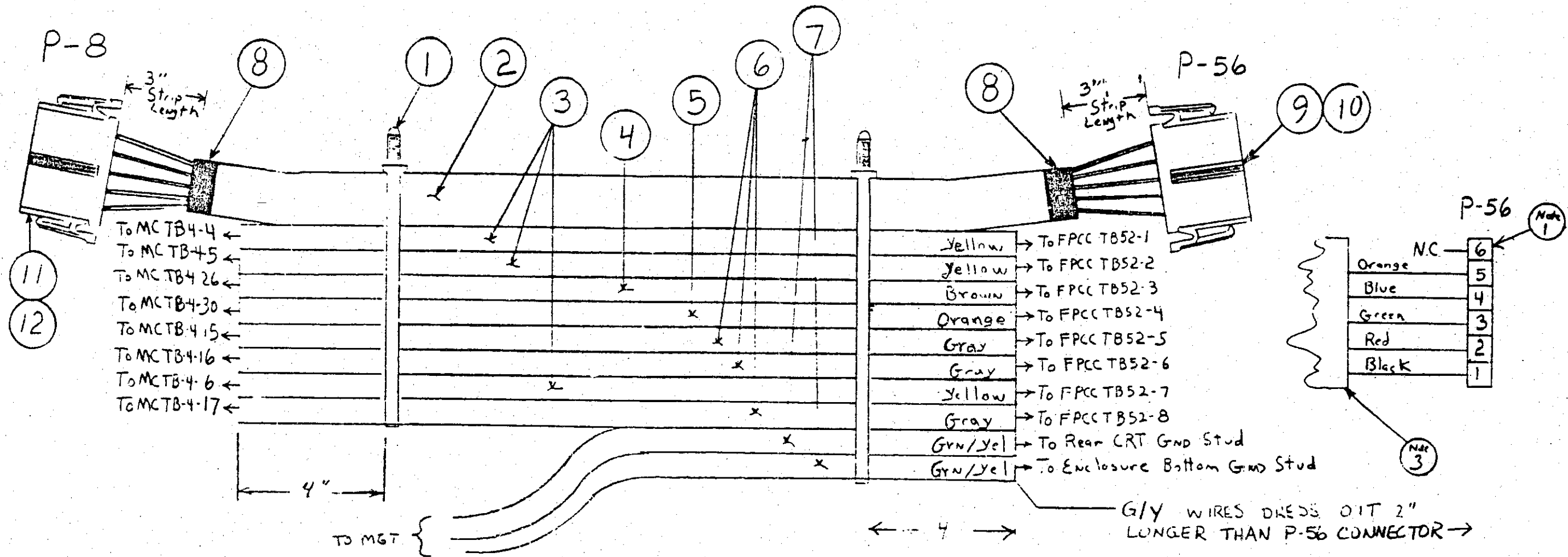
LEAD DRESS - FPCC END

QTY	PART NUMBER	ITEM DESCRIPTION	ITEM
1	423-6202-014	HARN. MC-CC-MP/PZ TO FPCC BMC 40/50	11
1	423-6202-013	HARN. TB4 TO FPCC J56 BMC 40/50	10
1	423-6202-012	HARN. BMC 40/50 TO FPCC	9
1	423-6202-011	HARN. FPCC-CPU-J2 BMC 40/50	8
1	408-0171-018	CORRLOK 90° FITTING 1/2" SIZE	7
161	408-0171-006	CONDUIT 1/2" CORRLOK	6
220	406-6010-006	SLEEVE, WOVEN 1/4" DIA.	5
1	423-6202-005	HARN. MC-CC-MP/PZ TO FPCC-P61	4
1	423-6202-004	HARN. TB4 + CRP TO FPCC P56	3
1	423-6202-003	HARN. FPCC TO MC-CC-GRAPHICS J1	2
1	423-6202-002	HARN. FPCC TO MC-CC-CPU-J2	1
010	001		

MURCO MANUFACTURING COMPANY, INC.
 INDIANAPOLIS, IN U.S.A.

DESCRIPTION
HARNASS ASSY. FPCC TO CNC

DATE 24	CHECKED	DATE	APPROVED	DATE 27
FEB. 76				MAR 76
SCALE	SIZE	DRAWING	SHEET	REV.
1/8" = 1"	D	423-6202-001	1	C
PART OF HEAD		010		

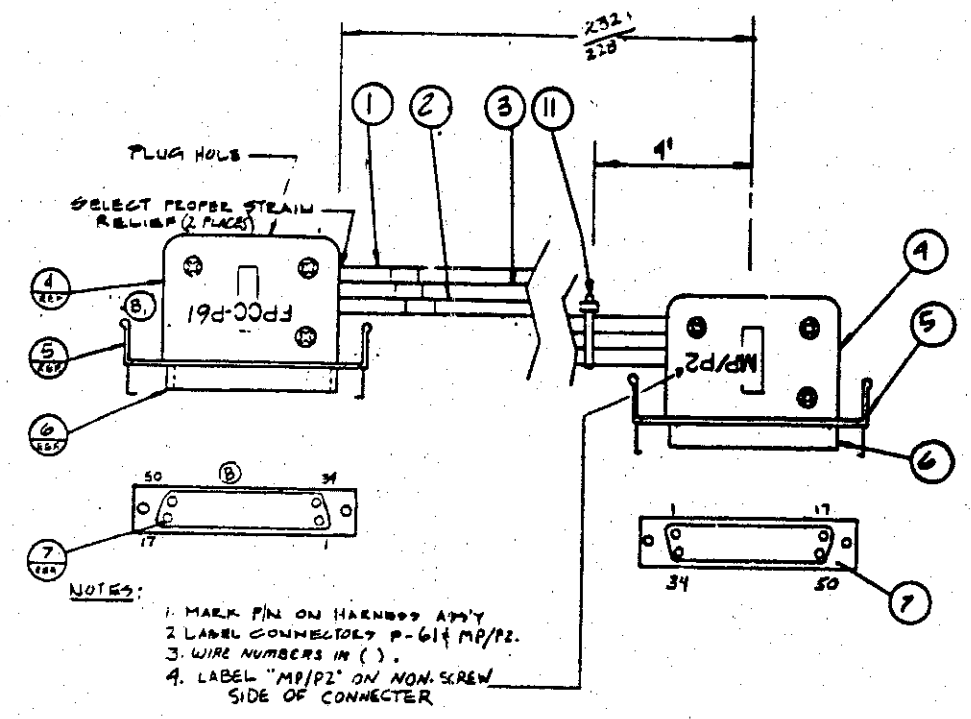
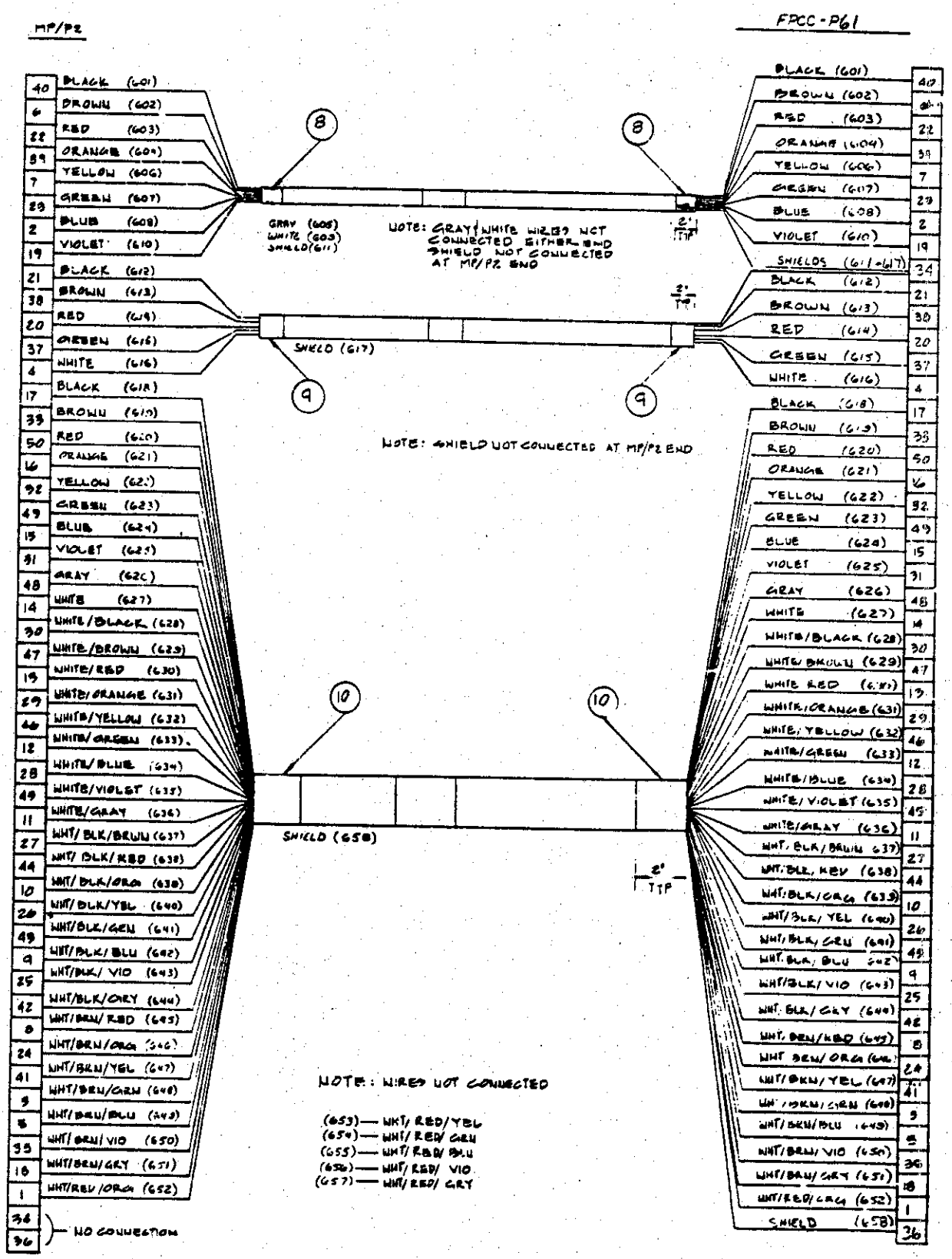


Notes

- 1) Insert Item #10 in open position of Plugs.
- 2) Label Harness with Hurco part Number
- 3) From shielded cable, Item # 2
- 4) USE TIE WRAPS ONLY WHERE SHOWN.

QTY	PART NUMBER	ITEM DESCRIPTION	ITEM
6	6	406-0803-062 CONTACT, PIN	12
1	1	406-0803-812 RECEPTACLE, IN-LINE, 6 POS.	11
6	6	406-7501-031 CONTACT, SOCKET # 66100-7 AMP	10
1	1	406-0803-673 HOUSING, PLUG, IN-LINE, 6 POS.	9
2"	2"	406-6781-004 SHRINK TUBING 1/4"	8
255"	450"	406-2002-020 WIRE, 12 AWG, GREEN/YELLOW	7
765"	675"	406-2003-018 WIRE, 14 AWG, GRAY	6
255"	225"	406-2003-013 WIRE, 14 AWG, ORANGE	5
255"	225"	406-2003-011 WIRE, 14 AWG, BROWN	4
765"	675"	406-2003-014 WIRE, 14 AWG, YELLOW	3
255"	225"	406-1244-003 WIRE, SHIELDED, 18 AWG, 6 COND	2
2	2	406-5001-006 TIE WRAP, MEDIUM	1
013	004		

HURCO MANUFACTURING COMPANY, INC
 INDIANAPOLIS IN U.S.A.
 DESCRIPTION
HARNES, TB4 TO FPCC J56
 DRAWN: R. G. ... DATE: 7/28/66
 CHECKED: ... DATE: ...
 SCALE: 1:1
 PART OF REAS: B
 DRAWING: 923-6202-013
 SHEET: 1
 REV: B



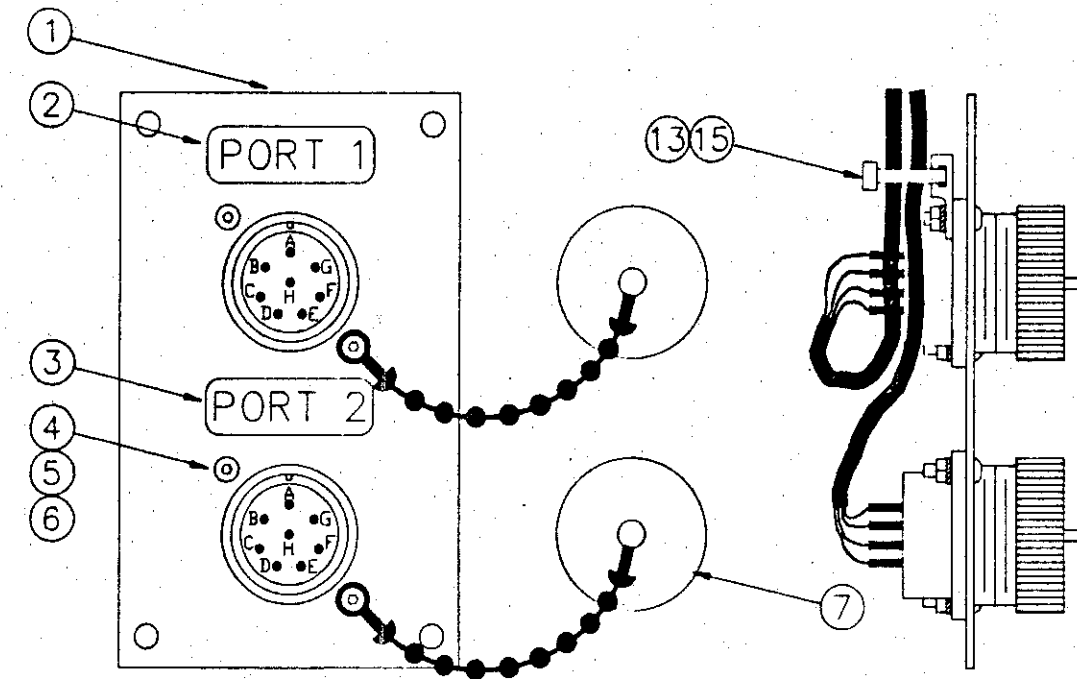
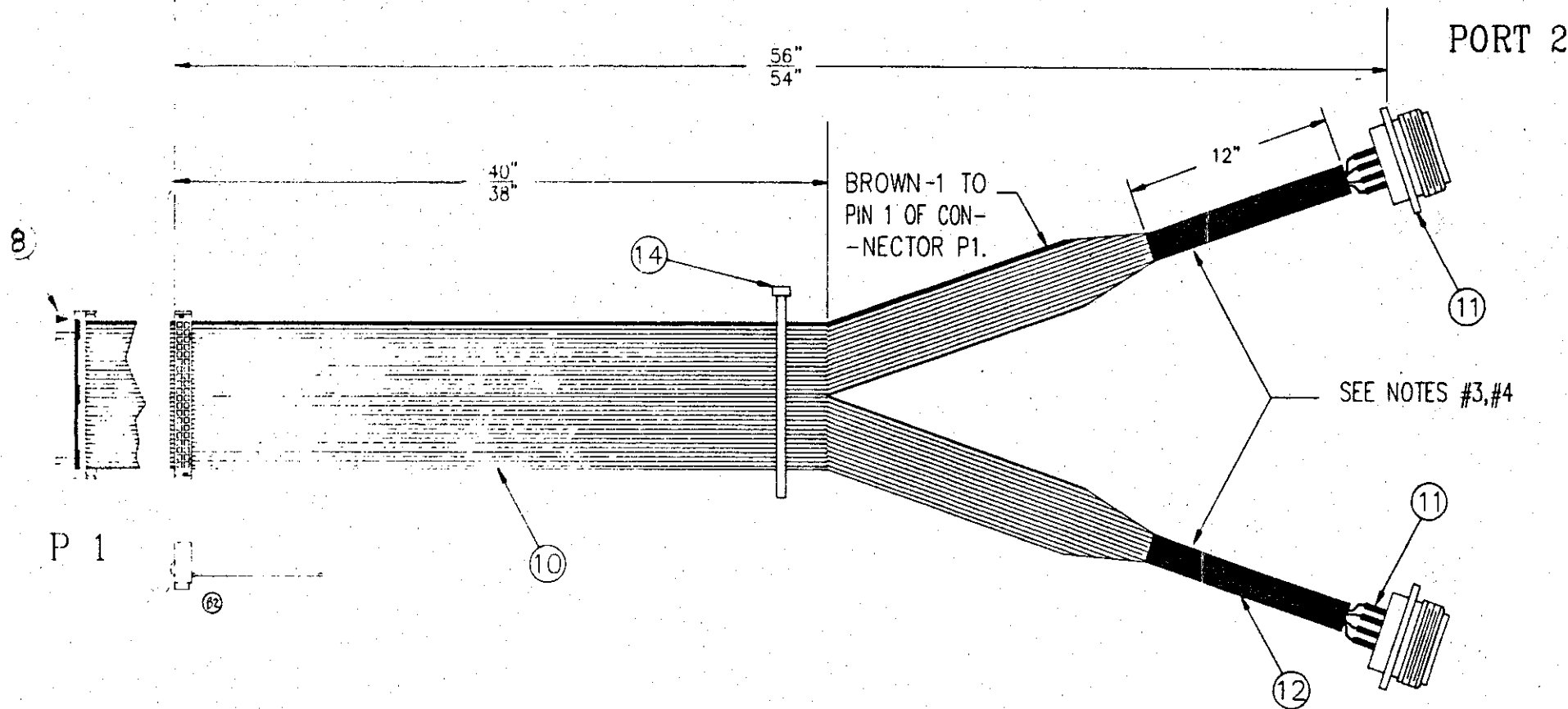
QTY	SIZE	DESCRIPTION	REVISION	DATE
1	1	400-600-006	WARP TIE MEDIUM	11
4	4	400-400-000	SHIELD TUBE - 1/2"	10
4	4	400-400-005	SHIELD TUBE - 3/8"	9
4	4	400-400-008	SHIELD TUBE - 1/4"	8
98	18	400-000-002	PN & CONTACT	7
2	8	400-000-004	COLLECTOR - 50 PM	6
2	8	400-000-005	SPRING LATCH - 50 PM	5
2	8	400-000-006	HAUSHA - 50 PM	4
260	230	400-400-008	WIRE - SHIELD - 23 AWG 40 COND	3
260	230	400-400-008	WIRE - SHIELD - 23 AWG 8 COND	2
260	230	400-400-008	WIRE - SHIELD - 23 AWG 16 COND	1
OM	005			

MURCO MANUFACTURING COMPANY, INC.
INDIANAPOLIS, IN, U.S.A.

ORDER NUMBER: **925-6202-005**

DATE: **11/8**

REVISION: **1**



P 1			PORT 1 (CHL 0)		
40	BLK 4	PG	A		
36	BLUE 4	RD	B		
38	GRAY 4	TD	C		
32	RED 4	CTS	D		
34	YEL 4	RTS	E		
28	GRAY 3	SG	F		
27	W/O 3	D'TR	G		
		NC	H		

P 1			PORT 2 (CHL 1)		
20	BLK 2	PG	A		
16	BLUE 2	RD	B		
18	GRAY 2	TD	C		
12	RED 2	CTS	D		
14	YEL 2	RTS	E		
8	GRAY 1	SG	F		
7	W/O 1	D'TR	G		
		NC	H		

TO ISBX-354
DUAL RS232
PCB.

NOTES:

- P1 PINS 1-6,9-11,13,15,17,19,21-26, 29-31,33,35,37, AND 39, ARE NOT CONNECTED AT THE PORT 1, PORT 2, END.
- PINS G AND H ON PORTS 1 AND 2 ARE NOT CONNECTED.
- DO NOT USE EXCESSIVE HEAT ON HEATSHRINK TO PREVENT DAMAGE TO RIBBON CABLE.
- FOLD BACK UNUSED WIRES UNDER EACH PIECE OF HEATSHRINK.

QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	1	406-5001-002	TIE MOUNT, PANDUIT	15
1	1	406-5001-005	TIE WRAP, SMALL	14
1	1	406-5001-006	TIE WRAP, MEDIUM	13
24"	24"	406-6481-003	HEATSHRINK, 3/16 INCH	12
1'	1'	406-6481-002	HEATSHRINK, 1/8 INCH	11
4.67'	4.67'	406-1559-003	CABLE, RIBBON 40 CON 28 GA	10
2	2	406-0121-009	RECEPT. MS3102A20-7S 8 POS	9
1	1	406-0802-048	CONN., 40 POS SCKT W/STRN RLF	8
—	2	406-0961-006	ASSY, DUST CAP AND CHAIN	7
—	4	117-5009-001	HEX NUT, M3	6
—	4	110-0066-004	LOCKWASHER, EXT. M3	5
—	4	108-5001-004	B.H.S.C.S., M3 X 12MM	4
—	1	703-0006-150	LABEL, PORT 2	3
—	1	703-0006-149	LABEL, PORT 1	2
—	1	802-2201-003	CONNECTOR PANEL, RS 232	1
003	002			

EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCES DECIMAL 0 .030 00 .015 000 .008 0000 .0008 ANGULAR ± 0°30'	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.
DESCRIPTION ASSY, RS232 HARNESS MAX 2	DATE JUL 87
DRAWN TRM	CHECKED DATE
THIRD ANGLE PROJECTION	APPROVED DATE 7/87
SCALE DRAWING	SIZE D
UNIT OF MEAS D	002-3215 -002 -003
	REV 1 B