

PARTS LISTINGS & WIRING DIAGRAMS

For

AUTOBEND 5C/TWO AXIS SYSTEMS

704-0001-642 February, 1993

Autobend 5C

Revision A

SAFETY PRECAUTIONS

Service personnel must be continuously alert to the practice of all necessary safety rules and precautions when servicing this equipment. Always observe the following safety precautions.

- **Always** disconnect the power source before attempting maintenance or service on the machine.
- **Always** turn the main disconnect switch to the OFF position before removing or working on any circuit boards, switches, fuses, cables, or components within the Power and/or CNC Control cabinets.
- Whenever work is to be performed in an area away from the disconnect switch, post a **'warning'** on/near the switch for others ***not*** to turn ON the power to the machine.
- If it becomes necessary to make any tests or checks with 'live' circuits, be extremely careful and follow all established safety practices. Remember, the 'line side' of the disconnect switch may be "hot" even though the switch is in the OFF position.

Important

Always wear the static control wrist strap when working inside the CNC control cabinet and avoid flexing the printed circuit boards (PCB's) when handling, removing, or inserting. Hairline cracks in the printed circuit etching may be the result of rough handling. These cracks are very difficult to isolate and often intermittent in operation.

Avoid touching the components ('devices') installed on a printed circuit board as static electricity may damage them!

PROPRIETARY INFORMATION

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GENERAL

The manual is intended for use in the identification, requisition and issuance of parts for the Hurco Autobend 5C. Parts listed in this manual meet specific critical equipment design specification requirements. The use of any non-recommended substitute replacement parts may be the source of added trouble. Do not assume that if parts look alike, they are the same. The majority of parts have special properties known only by the manufacturer. They are the result of particular requirements established by extensive research and testing. There is a continuing program to further improve existing parts. Many of these improvements cannot be detected by visual examination (comparing 'old' to 'new' items). For these stated reasons, it is extremely important that only recommended replacement parts be used.

The "Wiring Digrams in this manual are intended as an aid to isolate a malfunction when it becomes necessary to 'troubleshoot' the machine to find the source of an encountered problem.

NOTICE

Hurco products should be used only for the purpose and in the manner intended by their original design. It is recommended that **no** modifications be made to this product. Any modification of this product will void any expressed or implied warranty.

Hurco Manufacturing Company
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PARTS LIST

HOW TO ORDER REPLACEMENT PARTS

Hurco maintains a large inventory of service spare parts. Our Parts Order Processing personnel are thoroughly trained to handle all requests for replacement parts and can also answer your questions concerning the status of an existing order and shipping information (etc.).

Orders for parts may be placed by **telephone (1-800-638-1849)**, **telex (687-6024)**, **fax (317-298-2617)**, and/or by sending a letter with purchase order to:

HURCO Manufacturing Company
Parts Order Processing
One Technology Way
P.O. Box 68180
Indianapolis, IN 46268-0180

Explicit information is required so that we may process your request for parts. This information is detailed below.

Please have the following required information available when telephoning your request for parts.

1. Hurco CNC mill/machining center serial number. The serial number location is on the general information and warning label attached to the power cabinet door (near the disconnect switch).
2. Your Company name and complete address, including the postal zip code.
3. Name and telephone number of the person ordering the parts (include area code and extension).
4. COMPLETE shipping address (include the name and department of the person to receive the part). Also provide any special shipping instructions, including the desired mode of shipment (i.e. Air Express, UPS Blue, Standard UPS, etc.). Parts will be shipped prepaid and billed via invoice.
5. Your company's purchase order number, even if machine is under warranty.
6. Complete address to which invoices are to be mailed.
7. Give the Hurco part number, part name (description), and quantity (number of parts). Also state the source of this information, such as manual and page number, part number found on 'old' part,(etc.).

Special Notes:

When returning a part to Hurco, please fill out the "Return Authorization Tag" sent to you and ship the part to Hurco in the original container when possible.

Customer should order repair parts first and get the machine running. Once repaired then the broken parts can be returned.

ALL DEFECTIVE PARTS REPLACED UNDER WARRANTY AGREEMENT MUST BE RETURNED TO HURCO WITHIN THIRTY (30) DAYS.

This parts list is for use as an aid in the identification, requisition and issuance of parts for the Hurco Autobend 5C. Use only the part numbers specified within this manual for replacement parts. To locate a part number: 1) Identify the assembly that contains the component part from the "**Contents**" list below; 2) Refer to the page that illustrates the assembly breakdown; 3) Locate the component part and its item number on the illustration then refer to the item number within the part listing to determine its description and the Hurco part number.

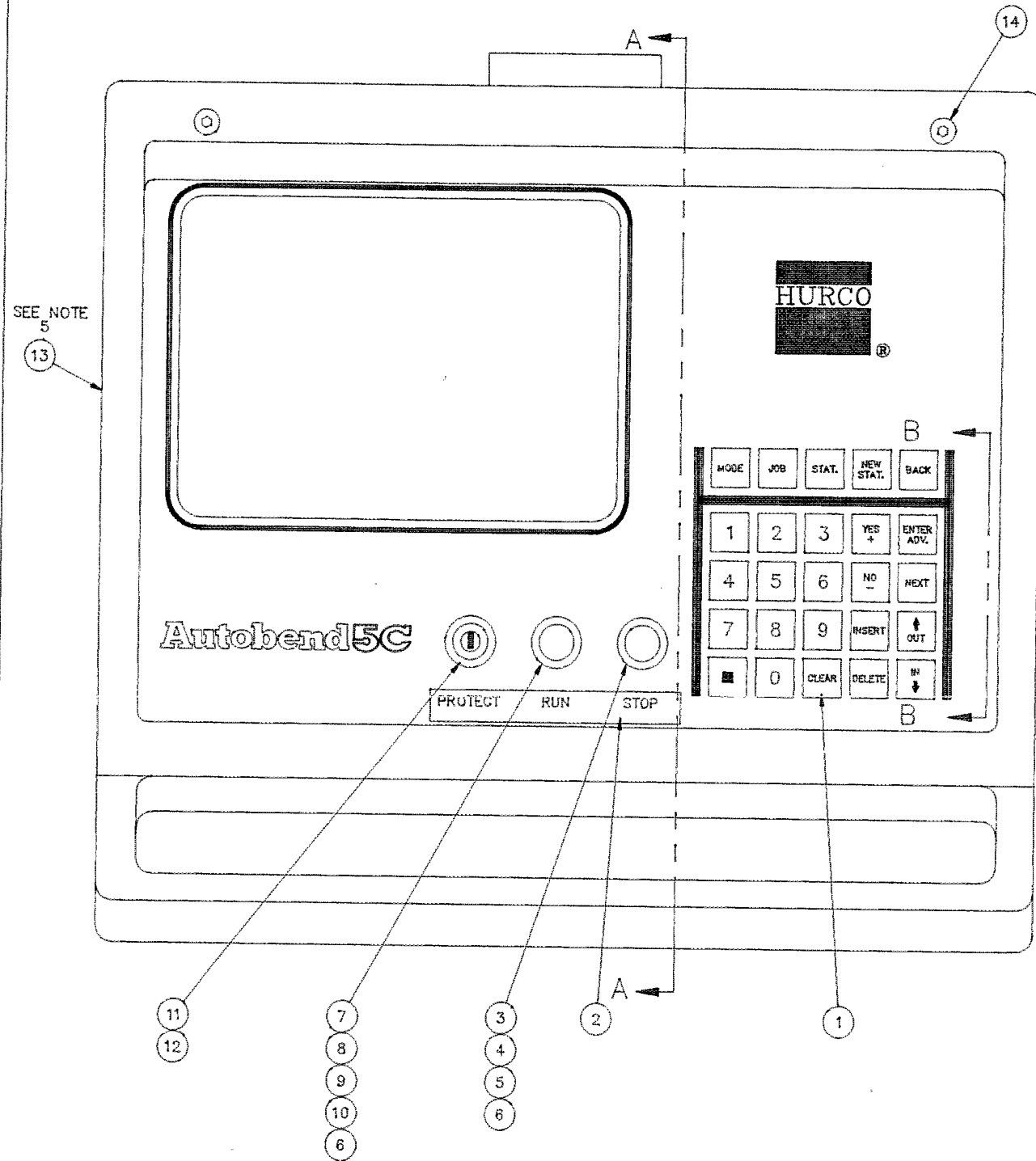
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DESCRIPTION	DRAWING NO.	PAGE
CONSOLE		
Console Assembly	001-1402-023	1 & 2
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Harness, 10 pin ribbon	423-0116-001 & 003	13
Harness, Control	423-0119-003 & 004	14
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PARTS LIST

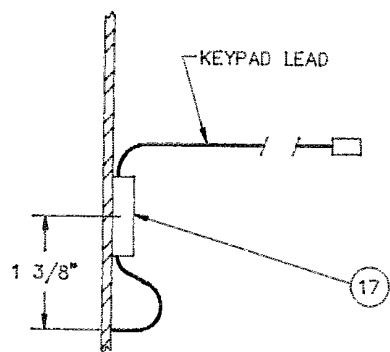
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DESCRIPTION	DRAWING NO.	PAGE
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NOTES:

1. REF: OPTIONAL LANGUAGE INSERTS
703-0003-063 THRU 067 KEYBOARD INSERT
703-0003-070 THRU 075 PB INSERT
2. CENTER THE LUBRICATION LABEL ON THIS SIDE.
3. USE LOCKTITE 232 ON ALL FASTENERS.
4. USE EPOXY TO ATTACH SAFETY LABEL IN CENTER OF REAR COVER.
5. DIAL DIRECT LABEL (ITEM 13) SHOULD BE LOCATED ON THE OUTSIDE UPPER LEFT CORNER OF THE LEFT-HAND SIDE WALL OF THE CONSOLE.
6. ATTACH KEYBOARD PANEL GROUND STRAP AT CENTER MOUNTING SCREW.

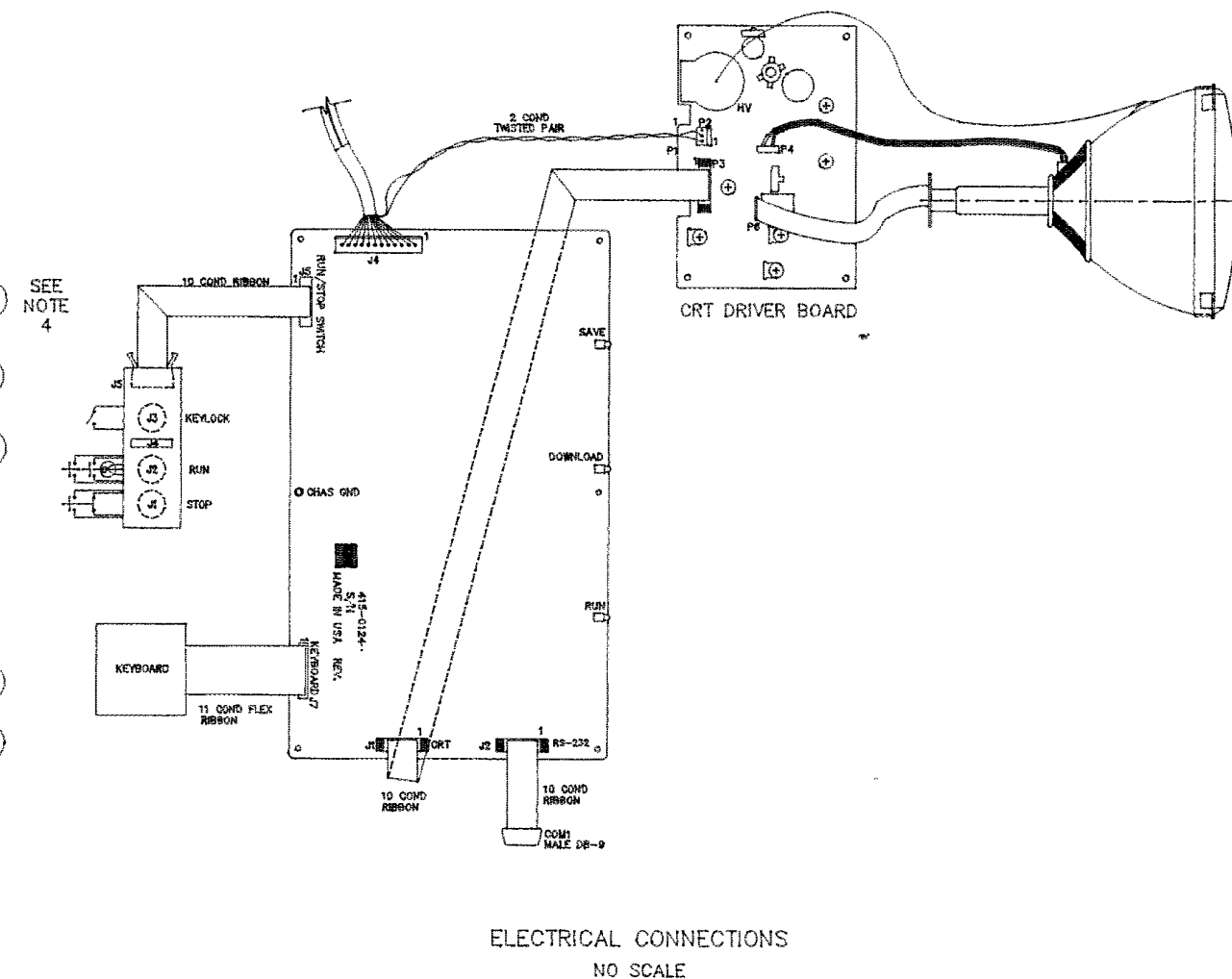
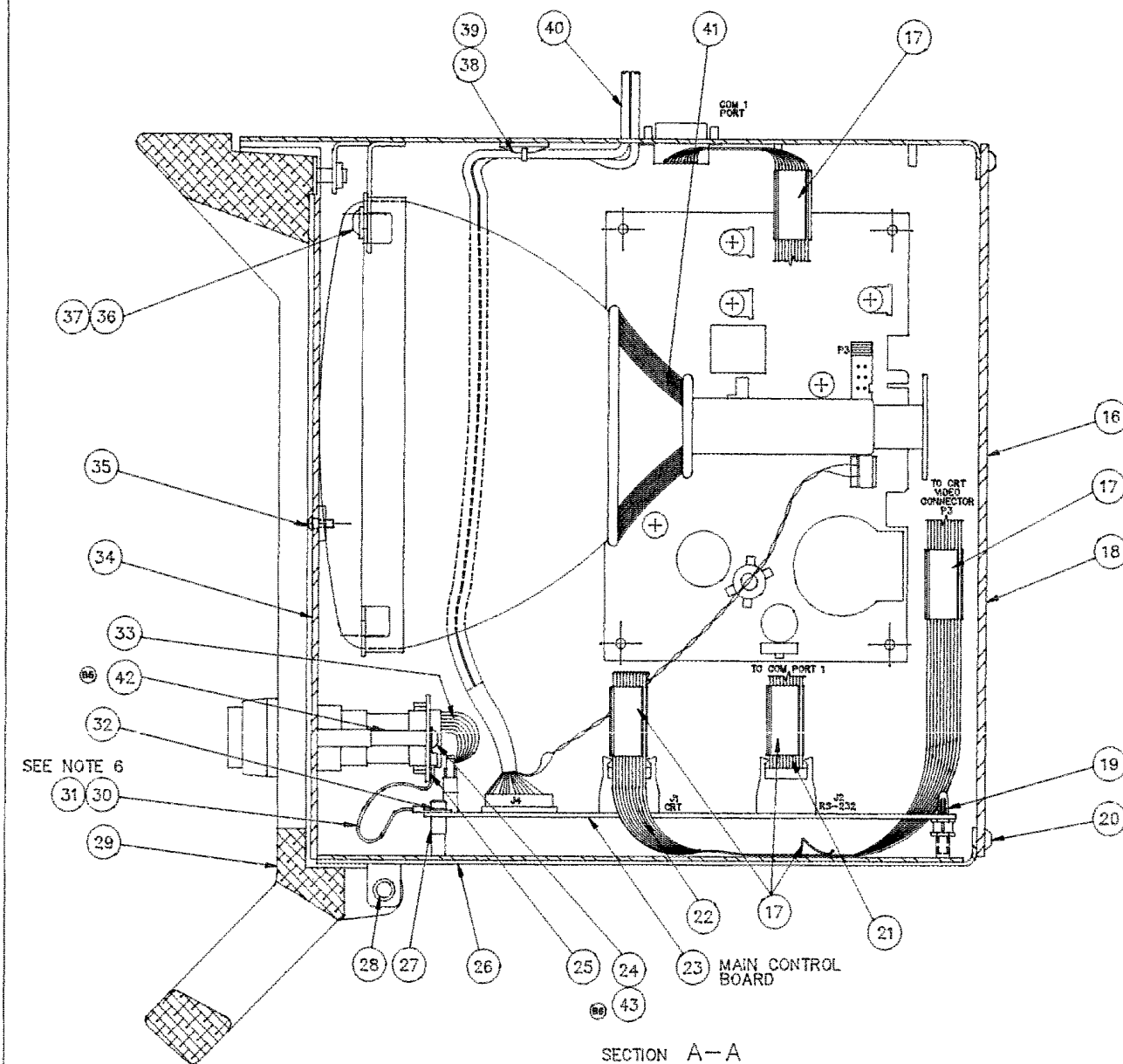


SECTION B-B

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1	404-9200-002	DIFFUSER, EXTENDED	5
1	404-4161-011	LENS CAP, RED	4
1	404-3677-002	SWITCH, P/B MOMENTARY 1 MAKE	3
1	703-0003-070	INSERT, PB ENGLISH	2
1	703-0003-062	INSERT, ENGLISH KEYBOARD	1

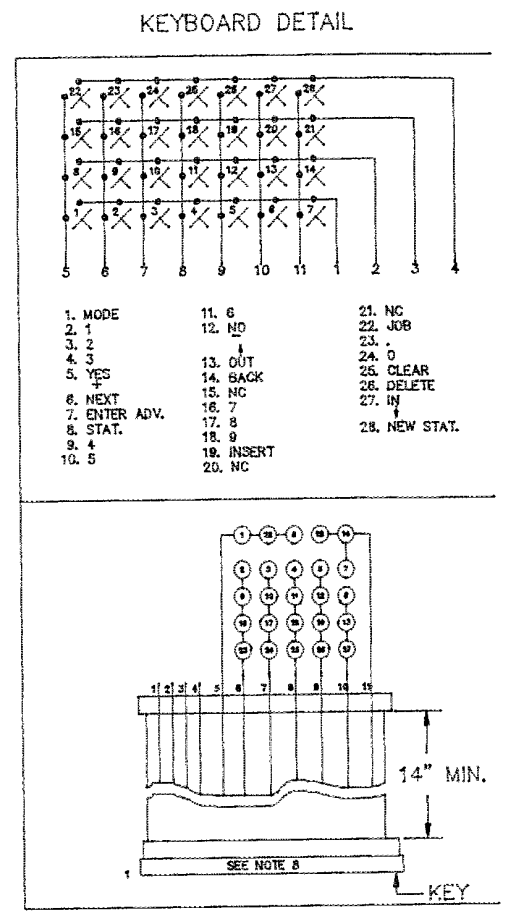
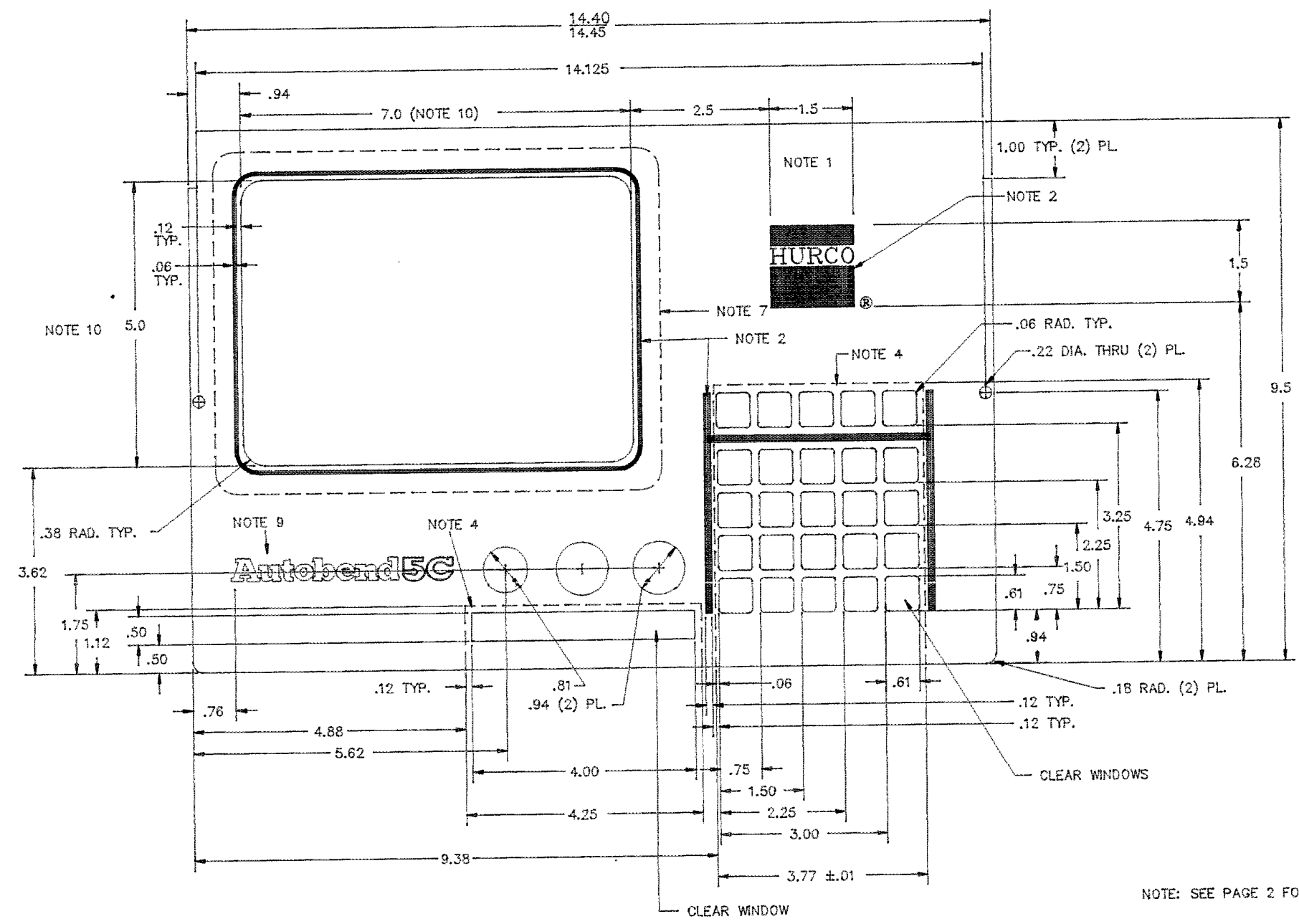
SEE NOTE 1

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
SURFACE TREATMENT			
EXCEPT AS NOTED: ALL DIMENSIONS IN BRACKETS TOLERANCE DECIMAL			
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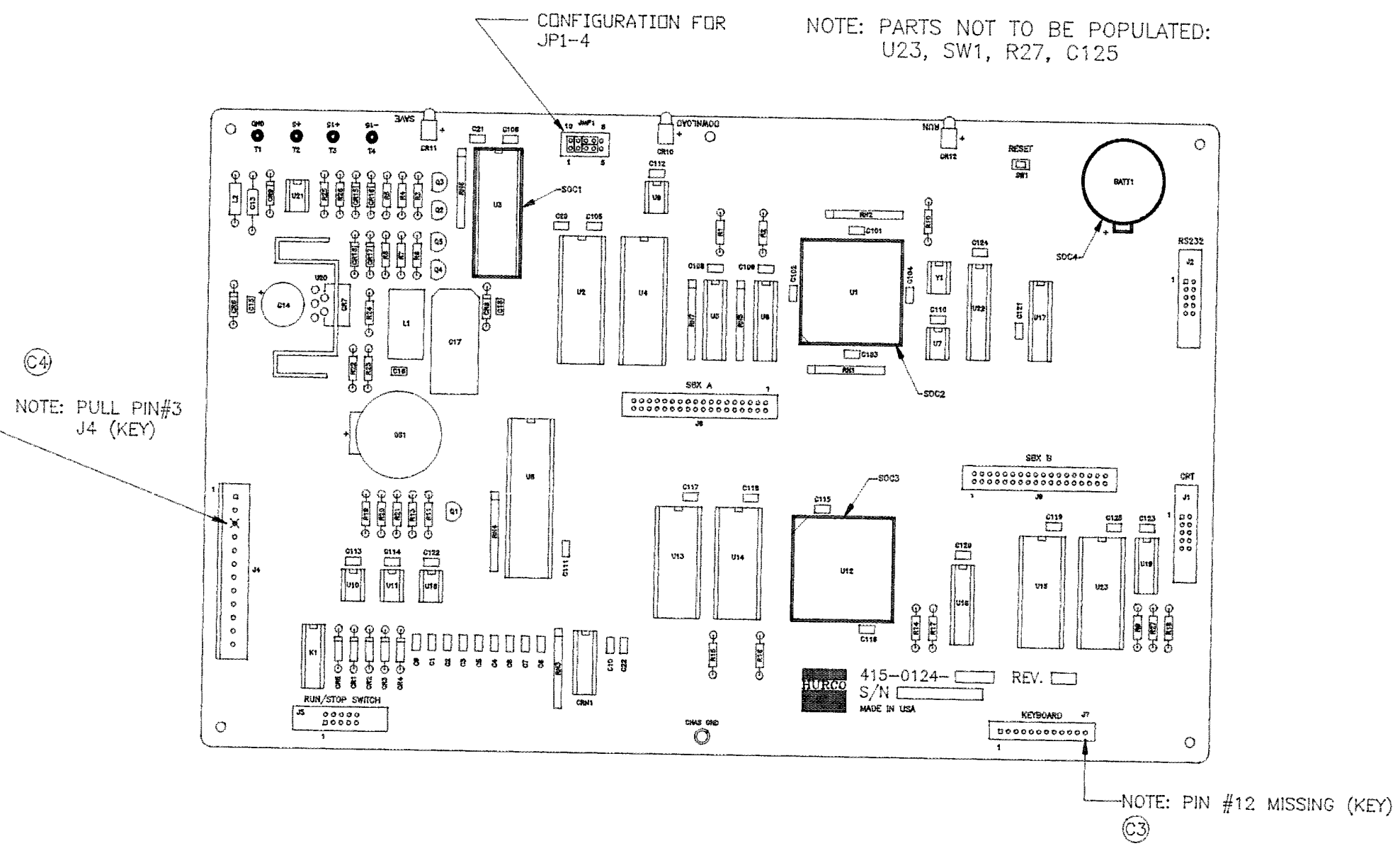
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SURFACE TREATMENT				EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE				HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.			
2				DECIMAL				DESCRIPTION			
2				.0000				ASSY, AB5C STD/188 CONSOLE			
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2				.0000				APPROVED			
2				.0000				DDC			
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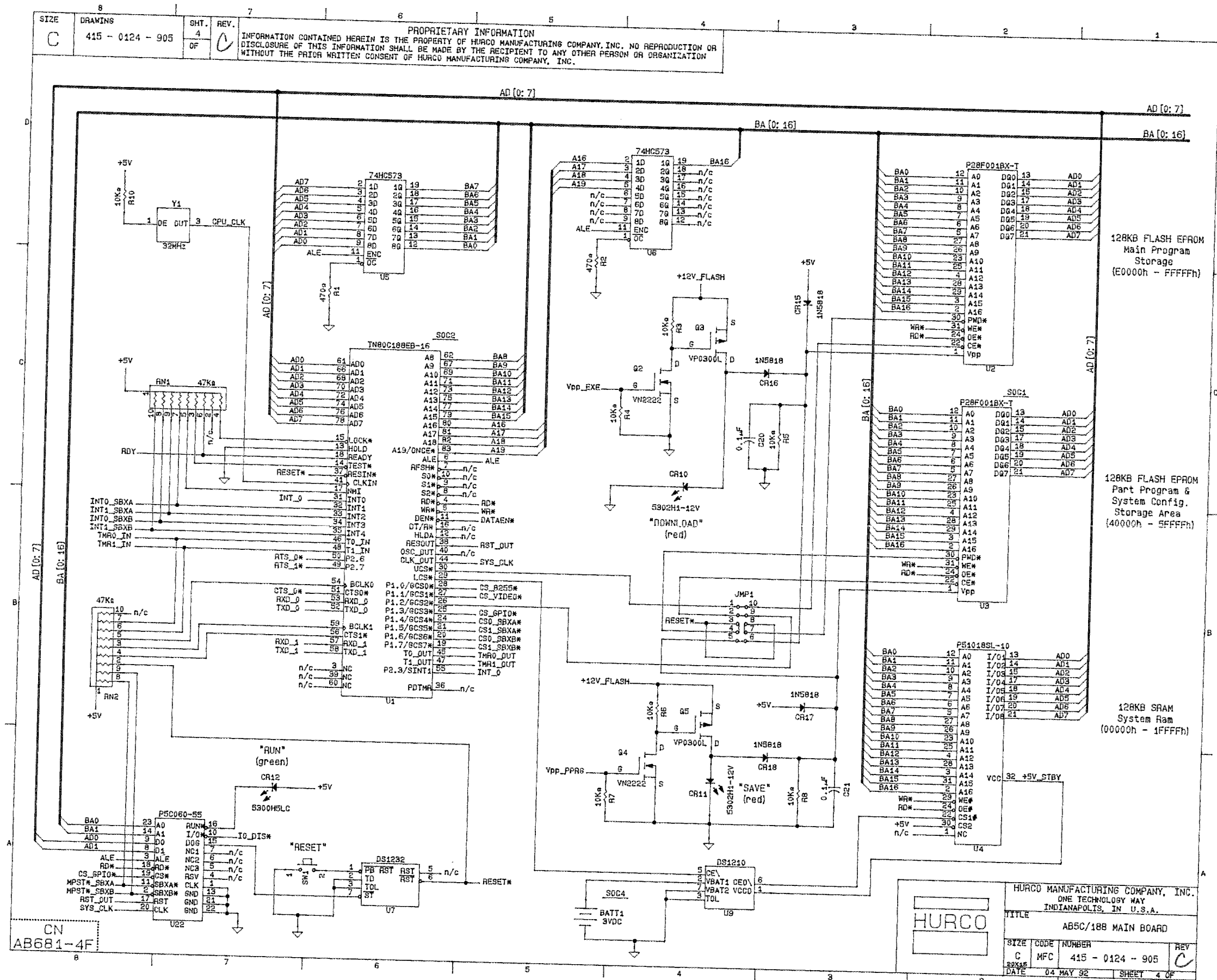
- NOTES:
1. LABEL TO BE BLACK BACKGROUND.
 2. SILVER -- PANTONE 877A.
 3. GRAPHIC LAYER -- .010 CLEAR POLYCARBONATE W/HARDCOTE & PRINTED TEXTURE.
 4. GRAPHIC INSERT POCKET FORMED BY CUT-OUTS IN SPACER (NOTE 6).
 5. SWITCH LAYERS -- .005 CLEAR MYLAR. SILVER CONTACTS -- KEYBOARD CABLE 14" MINIMUM LENGTH.
 6. SPACER -- .016 MYLAR & ADHESIVE TOTAL THICKNESS FOR GRAPHIC INSERT POCKETS.
 7. DISPLAY FILTER -- .12 THICK NOMINAL, PLEXIGLASS, TRANSPARENT BRONZE TINT, SHADE 2412, BEHIND OPEN WINDOW IN GRAPHIC LAYER. TWO SPRAY COATS OF "GUARDSMAN" ANTI-GLARE COATING TO BE APPLIED ON DISPLAY FILTER PRIOR TO INSTALLATION IN SWITCH PANEL.
 8. CABLE TERMINATION TO MATE TO SAMTEC TSS-112-01-L-S-12 SHROUDED SINGLE ROW TERMINAL HEADERS ON .0100" CENTERS W/ 10 MICROINCH GOLD ON CONTACT AREA. POSITION #12 ON CABLE TERMINATION SHOULD CONTAIN APPROPRIATE KEYING PLUG.
 9. "AUTOBEND 5" TO BE REDUCED TO SIZE INDICATED FROM HURCO SUPPLIED ARTWORK "AUTOBEND" PORTION TO BE SILVER; "5C" TO BE BLACK, OUTLINED IN SILVER.
 10. DIMENSIONS FOR DIE CUT THRU GRAPHIC LAYER.

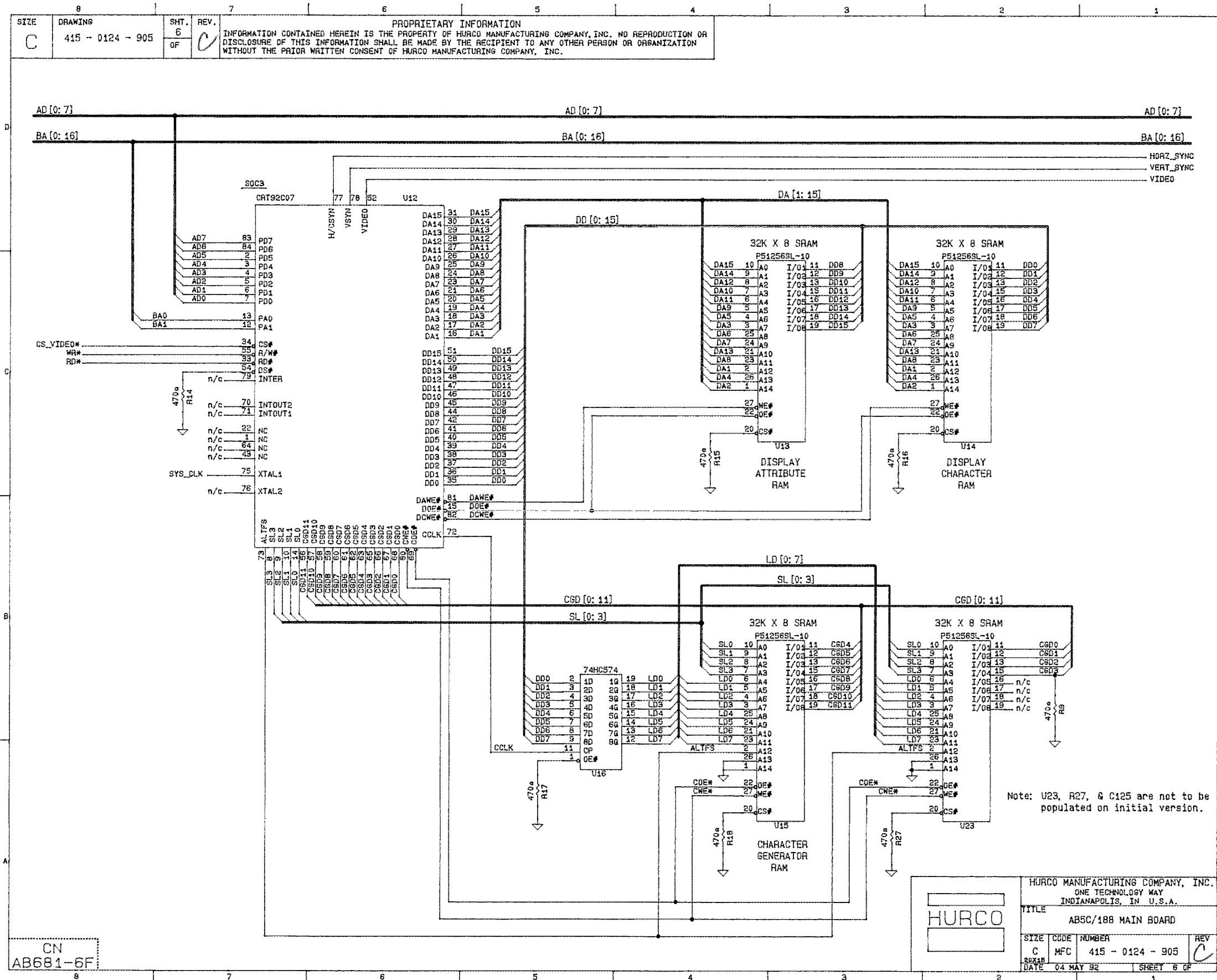
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										HEAT TREATMENT		DECIMAL				DESCRIPTION							
												.000 ±.0000 .000 ±.0100 .000 ±.0005 .0005 ±.0005 ANGULAR ± .0004 BREAK ALL SHARP EDGES				MEMBRANE SWITCH PANEL, AB5C STD/188							
										FIRST USED ON		THIRD ANGLE PROJECTION				DRAWN DRA		DATE 5-21-92	CHECKED MFC	DATE 5-28-92	APPROVED DDC	DATE 6-3-92	
B 12194 (1) DIM WAS .05, (2) DIM WAS 1.72										DRA 11 MFC 11		AB5C				SCALE 1=1		SIZE D	405-3001-024		REV. 1	2	
A 12127 REL																							
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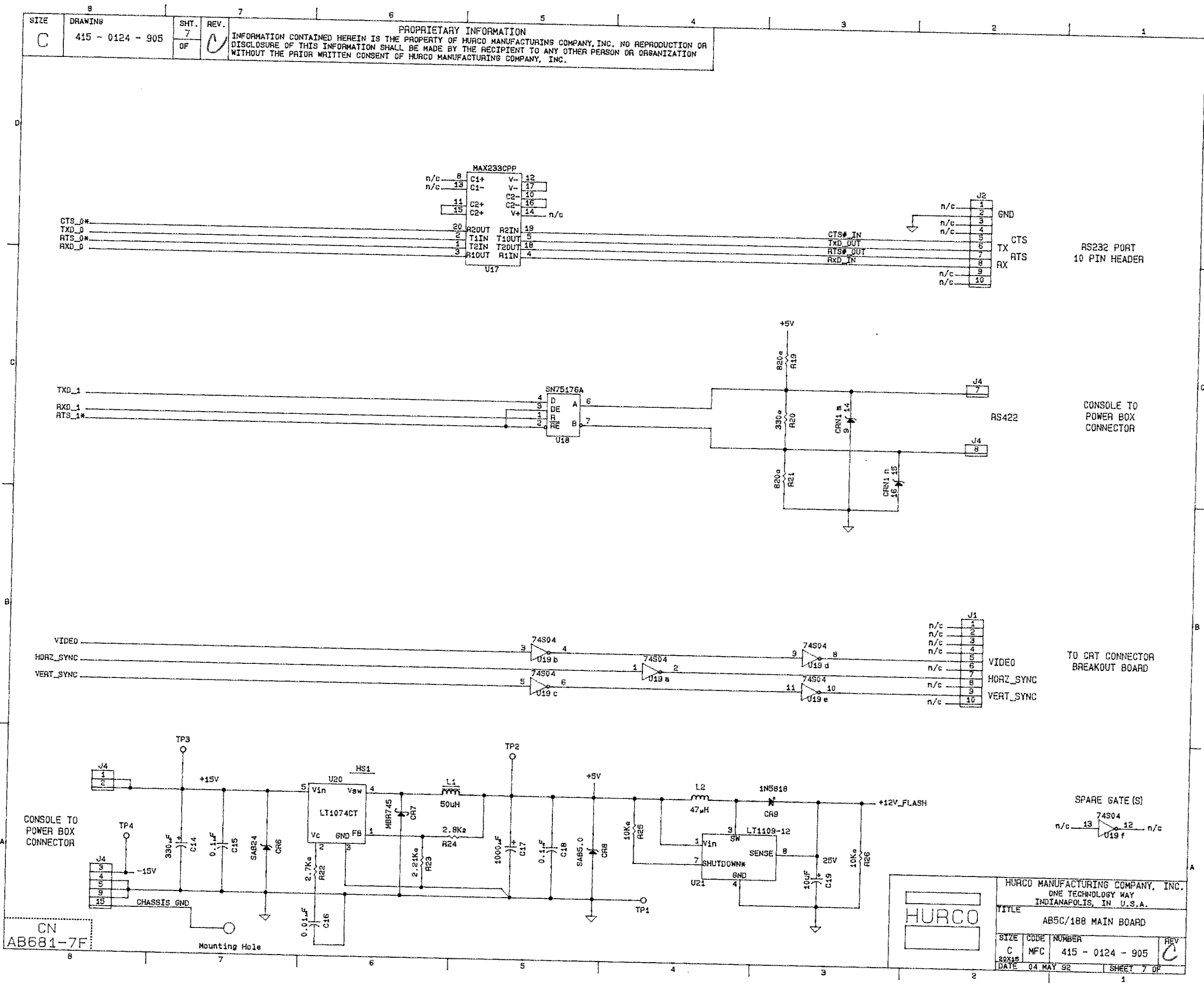


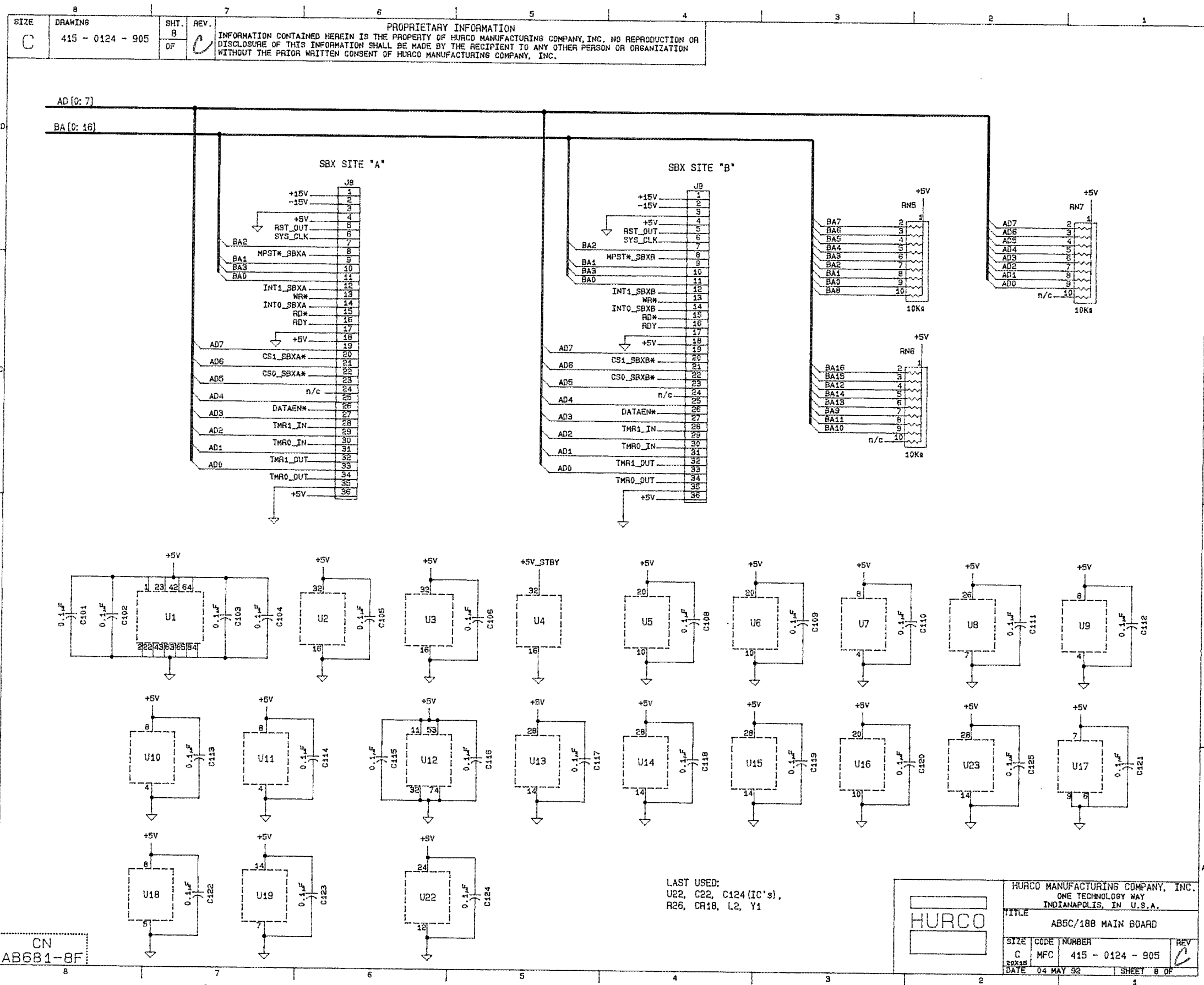
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SURFACE TREATMENT	EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL	HURCO HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.					
HEAT TREATMENT	.0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± .030° BREAK ALL SHARP EDGES	DESCRIPTION PCB ASSY, 188 MAIN CONTROL					
FIRST USED ON	THIRD ANGLE PROJECTION	DRAWN D.A.B.	DATE 07MAY92	CHECKED MFC	DATE 29MAY92	APPROVED	DATE
AB5C		SCALE NONE	SIZE C	DRAWING 415-0124-905	SHT. 2 OF	REV. C	









SIZE B	DRAWING 423-0116-001 -003	SHT. 1 OF 1	REV.	PROPRIETARY INFORMATION INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HURCO MANUFACTURING COMPANY, INC. NO REPRODUCTION OR DISCLOSURE OF THIS INFORMATION SHALL BE MADE BY THE RECIPIENT TO ANY OTHER PERSON OR ORGANIZATION WITHOUT THE PRIOR WRITTEN CONSENT OF HURCO MANUFACTURING COMPANY, INC.									
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NOTE 1: BROWN CONDUCTOR AT ARROW SIDE OF THE CONNECTOR.

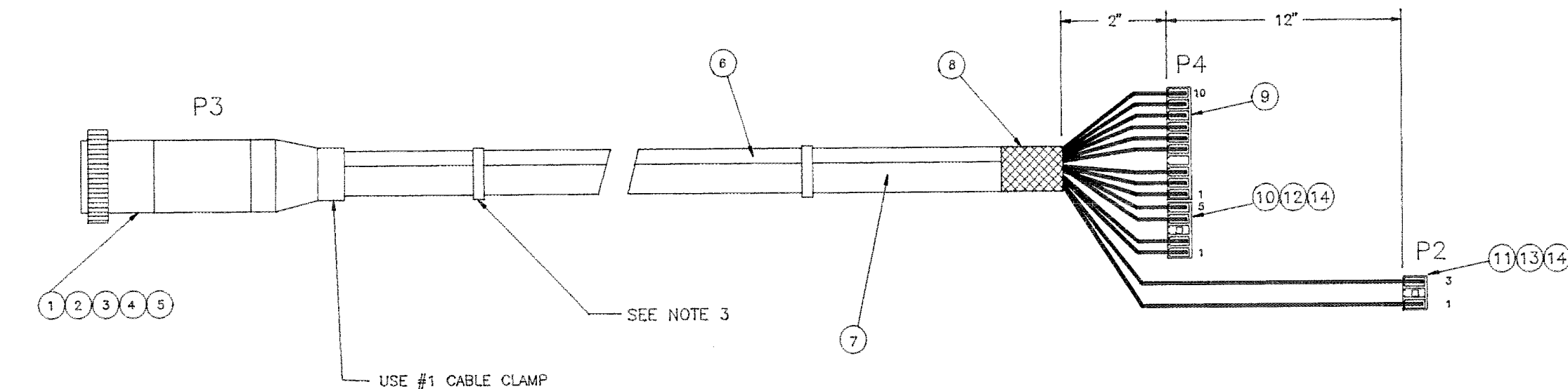
NOTE 2: LABEL ASSY. WITH HURCO P/N AND REVISION.

2	2	406-0806-017	CONNECTOR, 10 PIN	2
30"	9"	406-1559-004	CABLE, 10 CONDUCTOR FLAT	1
QTY. -003	QTY. -001	PART NUMBER	ITEM DESCRIPTION	ITEM

PARTS LIST											
SURFACE TREATMENT ~											
HEAT TREATMENT ~											
FIRST USED ON AUTOBEND											
THIRD ANGLE PROJECTION [Symbol]											
EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± 0.30° BREAK ALL SHARP EDGES											
HURCO HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.											
DESCRIPTION HARNESS, 10-PIN RIBBON											
DRAWN DAB		DATE 07DEC91		CHECKED		DATE		APPROVED		DATE	
SCALE NONE		SIZE B		DRAWING 423-0116-001 -003		SHT. 1 OF 1		REV.			
UNIT OF MEAS PC											

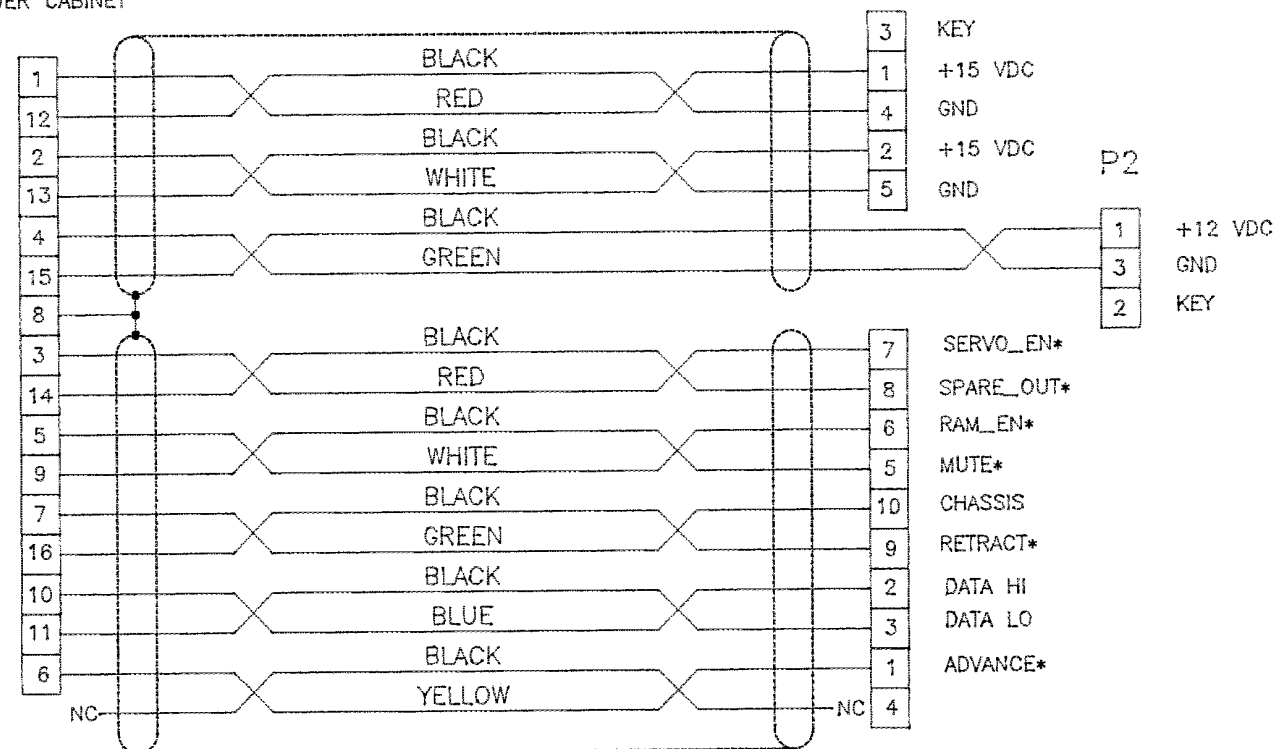
REV	P.L.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APPROVE BY	DATE	OF
E	12127	ADDED -003	DAB	5/7 92					
D	11898	REDRAWN ON CAD, NEW CONNECTORS	DAB	12/29 91					

CN
AB127



P3
POWER CABINET

P4
CONSOLE (MAIN PCB)

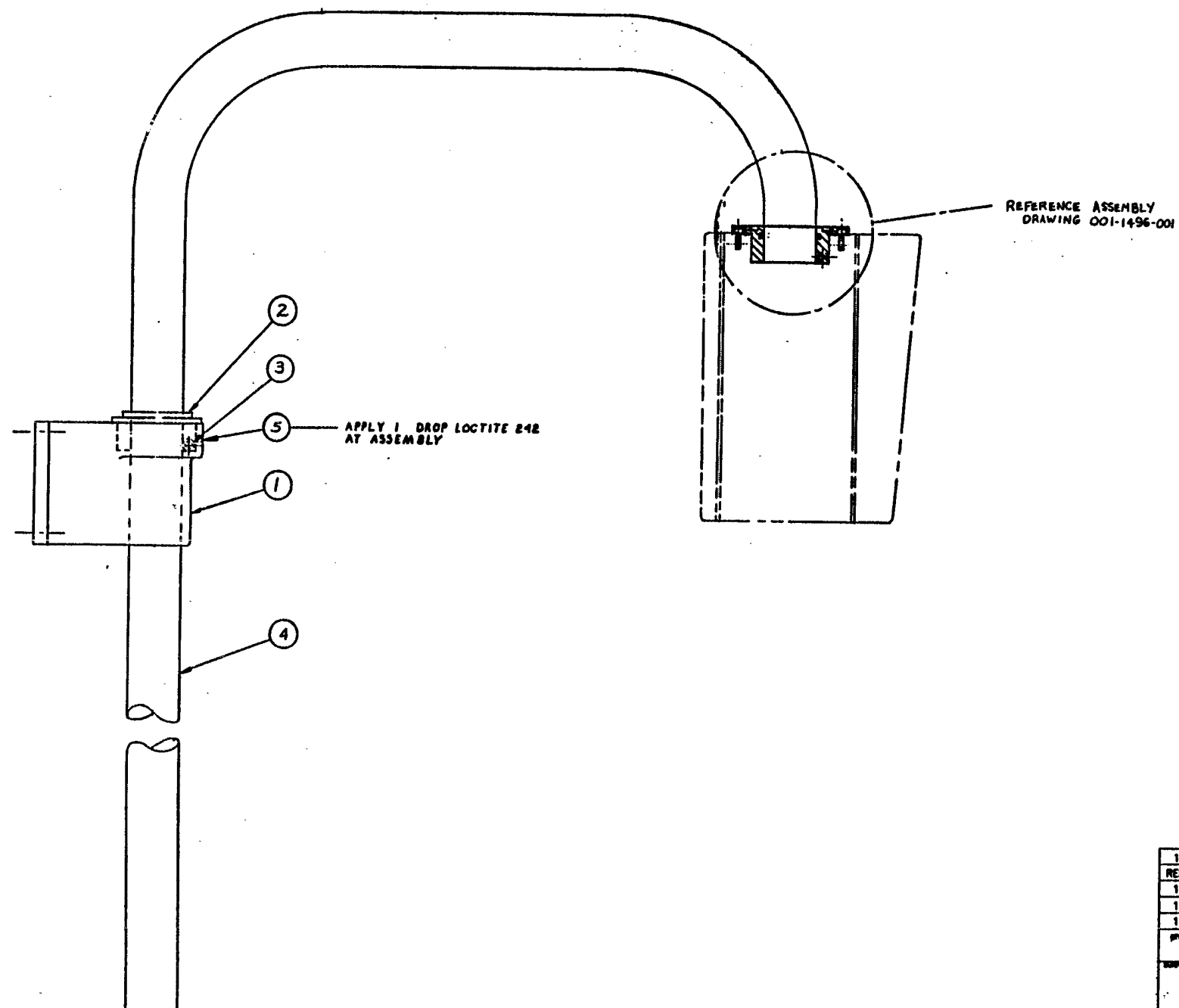


NOTES:

1. MARK HARNESS WITH PART NUMBER AND REVISION.
2. MARK CONNECTORS AS SHOWN.
3. USE TIE WRAP (ITEM 15) EVERY 18" APPROX.
4. COMBINE ITEMS 9 AND 10 AS SHOWN AND COVER WITH ITEM 12.
5. ON -003 ASSY: HARNESS LENGTH TO BE 15' ± 2" FROM P3 TO P4, END TO END.
6. ON -004 ASSY: HARNESS LENGTH TO BE 25' ± 2" FROM P3 TO P4, END TO END.
7. USE ITEMS 2, 16 AND 17 WHEN CONNECTING SHIELD TO ITEM 1.

QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	1	406-6481-002	SHRINK TUBING, 1/8" BLACK	18
3	3	406-2005-020	WIRE, 18 AWG BLACK	17
16	10	406-5001-006	TIE-WRAP, MEDIUM	15
2	2	406-0803-086	PLUG, MTA KEYING	14
1	1	406-0803-221	COVER, MTA 3-POS	13
1	1	406-0803-946	COVER, CLOSED END STRAIN RELIEF	12
1	1	406-0803-933	CONNECTOR, MTA 3-POS 18AWG	11
1	1	406-0803-225	CONNECTOR, MTA 5-POS 18AWG	10
1	1	406-0803-935	CONNECTOR, MTA 10-POS 24AWG	9
4	4	406-6481-005	HEATSHRINK, 3/8"	8
26	16	406-1245-006	CABLE, 5 TWISTED PR, 24 AWG	7
25	15	406-1244-007	CABLE, 3 TWISTED PR, 18 AWG	6
1	1	406-0864-001	BACKSHELL EXTENDER	5
1	1	406-7505-003	CLAMP, CONNECTOR CABLE	4
9	9	406-7501-021	SOCKET, 20-24 GA SOCKET	3
7	7	406-7501-031	SOCKET, 16-18 GA CONTACT	2
1	1	406-0481-003	PLUG, CPC SIZE 17, 16-POS	1

CN
AB154



1	103-5127-018	SSS, M6 X 16 HALF DOG POINT	5
REF	801-0818-002	CONTROL ARM	4
1	101-5008-004	SHCS, M6 X 16	3
1	801-0802-001	CLAMP, TUBE	2
1	801-0817-001	BRACKET, CONTROL ARM MOUNTING	1
QTY.	PART NUMBER	PART DESCRIPTION	QTY.
PARTS LIST			
EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES UNLESS OTHERWISE SPECIFIED			
HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.			
ASSY. CONTROL ARM DS EXPD NONE PC			
001-1407-001		001-1405-001	$\frac{1}{2}$ H

4

3

2

1

C

DRAWING

001-1496-001

SHEET

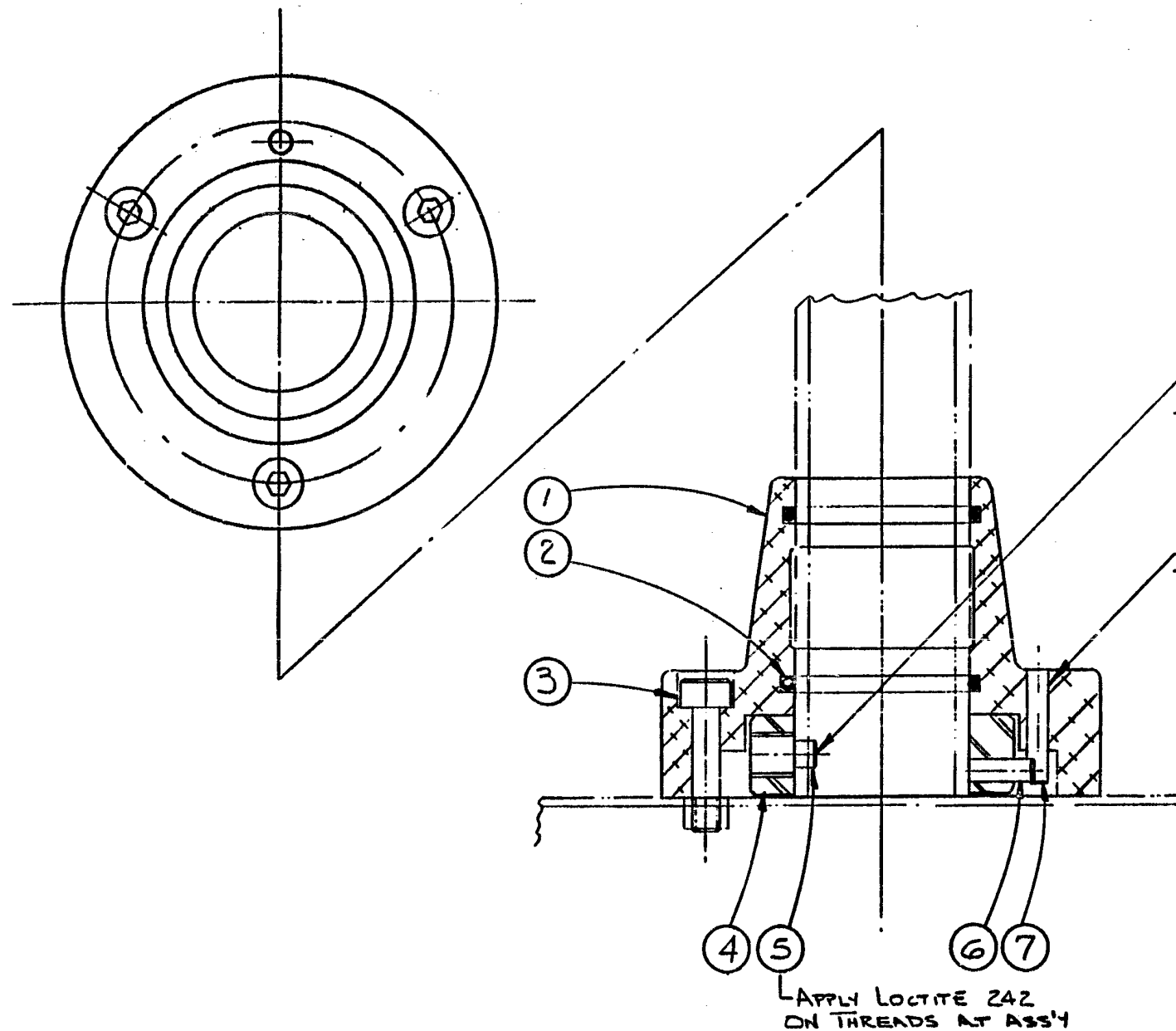
1

REV.

B

PROPRIETARY INFORMATION

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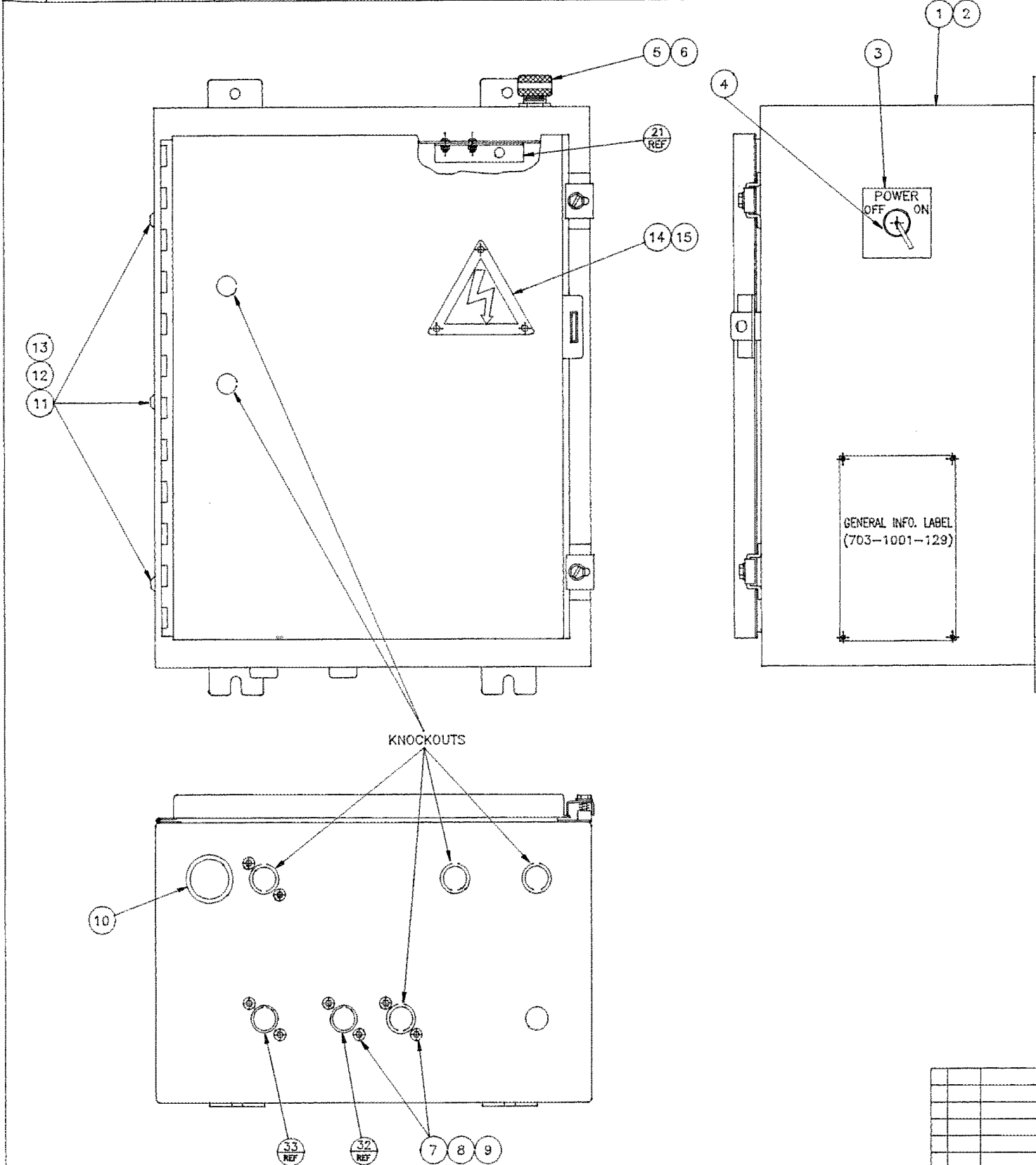


.344 DIA. DRILL THRU WALL OF SUPPORT TUBE. DETERMINE PROPER RADIAL POSITION AT ASSY. ON PRESS BRAKE.

SHOWN OUT OF TRUE POSITION

APPLY LOCTITE 242 ON THREADS AT ASSY

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	112-5024-006	SPRING PIN 6mm DIA. x 30mm LG.	7
1	112-5024-004	SPRING PIN 6mm DIA. x 20mm LG.	6
1	103-0009-016	HALF DOG POINT SOL SET SCZ. 1/2-13 x 7/8 LG.	5
1	801-0786-003	RETAINING COLLAR	4
3	101-5010-009	S.H.C.S. M8 x 35 LG.	3
2	608-2001-226	O'RING #2-226 NEOPRENE	2
1	801-0786-004	GUIDE & SUPPORT TUBE	1
PARTS LIST			
SURFACE TREATMENT			
EXCEPT AS NOTED			
ALL DIMENSIONS IN INCHES			
TOLERANCES DECIMAL			
0 ± .030			
00 ± .015			
000 ± .008			
0000 ± .0005			
ANGULAR ± 0°30'			
HEAT TREATMENT			
BREAK ALL SHARP EDGES			
THIRD ANGLE PROJECTION			
FIRST USED ON			
HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.			
DESCRIPTION			
GUIDE ASSY. AUTO BEND			
DRAWN J. NAUGHT			
DATE 5-2-86			
CHECKED			
DATE			
APPROVED			
DATE 5/1/86			
SCALE 1/1			
SIZE			
DRAWING			
SHEET 1			
REV B			
UNIT OF MEAS. C			
001-1496-001			



PART NUMBER DESCRIPTION

- 001-1502-009 - ASSY., AB5C 115 VAC U.S.A. POWER CABINET
- 001-1502-010 - ASSY., AB5C 230 VAC U.S.A. POWER CABINET
- 001-1502-011 - ASSY., AB5C 230 VAC AUSTRALIAN POWER CABINET
- 001-1502-012 - ASSY., AB5C 230 VAC EUROPEAN POWER CABINET
- 001-1502-013 - ASSY., AB5C 230 VAC CINCINNATI COST BREAKER POWER CABINET
- 001-1502-014 - ASSY., AB5C 115 VAC CINCINNATI OEM POWER CABINET
- 001-1502-015 - ASSY., AB5C 115 VAC LVD OEM POWER CABINET
- 001-1502-016 - ASSY., AB5C 230 VAC LVD OEM POWER CABINET

QTY.	QTY.	QTY.	QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	1	1	1	1	703-0003-101	LABEL, POWER CABINET FUSE IDENTIFICATION	52
1	1	1	1	1	406-7001-075	RING TONGUE, 3/8" 14-16 AWG	51
30"	30"	30"	30"	30"	406-2003-022	WIRE, 14 AWG GRN/YEL	50
1	1	1	1	1	110-0061-007	EXT TOOTH LOCKWASHER, 3/8"	49
1	1	1	1	1	001-1511-001	SPARE FUSE KIT	48
85"	85"	42"	85"	85"	406-2003-010	WIRE, 14 GA BLACK	47
1	1	1	1	1	801-0818-001	PANEL, POWER SUPPLY	46
2	2	2	2	2	108-5002-003	BHSCS, M4 X 0.7 P X 12 LG	45
2	2	2	2	2	409-1001-055	FUSE, FNM 4A 250V, DUAL SLOW BLO	44
1	1	1	1	1	409-2001-025	FUSE BLOCK HOLDER	43
4	4	4	4	4	110-5001-004	WASHER, FLAT M6	42
4	4	4	4	4	110-0066-011	LOCKWASHER, M6 EXT TOOTH	41
4	4	4	4	4	101-5008-003	SHCS, M6 X 1.0 P X 12 LG	40
1	1	1	1	1	413-0003-131	SERVO TRANSFORMER, 33 VAC SEC.	39
4	4	4	4	4	110-0066-009	LOCKWASHER, M5 EXT TOOTH	38
4	4	4	4	4	101-5007-012	SHCS, M5 X 0.8 P X 45 LG	37
1	1	1	1	1	413-0003-130	POWER TRANSFORMER, 12 VAC SEC.	36
2	2	2	2	2	409-1001-056	FUSE, FNM 7A 250V, DUAL SLOW BLO	35
40"	40"	40"	40"	40"	406-2003-012	WIRE, 14 GA RED	34
1	1	1	1	1	423-0120-002	CONTROL CABLE, POWER SUPPLY	33
1	1	1	1	1	423-0121-001	CABLE, PWR SUPPLY PERIPH.	32
8	8	8	8	8	110-0131-001	PCB SUPPORT, RICHCO #MSCBS-8-19	31
1	1	1	1	1	415-0228-004	PCB, POWER SUPPLY	30
1	1	1	1	1	409-0001-005	FILTER, 10A	29
.5FT	.5FT	.5FT	.5FT	.5FT	406-2005-030	WIRE, 18 GA GRN/YEL	28
1	1	1	1	1	406-7001-007	QUICK DISC, 1/4" 18/22 GA RED	27
4	4	4	4	4	406-7001-037	TERMINAL, QDC 14/16 AWG	26
2	2	2	2	2	406-7001-017	RING TONGUE, 1/16 GA #6 BLUE	25
1	1	1	1	1	404-4161-010	FLANGE, EMERGENCY STOP MTG.	24
1	1	1	1	1	404-7001-018	CONTACT BLOCK, 2 NO SLOW-MK/BK	23
4	4	4	4	4	406-7001-053	QUICK DISCONNECT, 3/16" BLUE	22
1	1	1	1	1	802-1765-002	BRACKET, INTERLOCK SWITCH	21
1	1	1	1	1	404-5201-004	SWITCH, DP CHEAT INTERLOCK	20
6	6	6	6	6	110-0067-006	LOCKWASHER, INT. M4	19
2	2	2	2	2	117-5011-001	NUT, HEX M4	18
2	2	2	2	2	110-5001-002	WASHER, FLAT M4	17
4	4	4	4	4	108-5002-002	BHSCS, M4 X 0.7 P X 10 LG	16
3	3	3	3	3	111-0241-001	RIVET, AD-32-ABS SCOVIL	15
1	1	1	1	1	703-0006-049	LABEL, SAFETY SIGN WARNING PL	14
7	7	7	7	7	110-5001-003	WASHER, FLAT, M5	13
3	3	3	3	3	117-5012-001	NUT, HEX, M5	12
3	3	3	3	3	108-5003-004	BHSCS, M5 X 0.8 P X 12 LG	11
1	1	1	1	1	408-8001-018	PLUG, HOLE, 1.75" DIA	10
8	8	8	8	8	117-5009-001	NUT, HEX M3	9
8	8	8	8	8	110-0067-004	LOCKWASHER, M3 INT. TOOTH	8
8	8	8	8	8	108-5001-004	BHSCS, M3 X 0.5 P X 12 LG	7
1	1	1	1	1	408-8501-001	LOCKNUT, 1/2" CONDUIT	6
1	1	1	1	1	408-8003-001	CORD GRIP, 1/2" .500 TO .625	5
1	1	1	1	1	404-7001-017	ACTUATOR, LONG ROTARY LEVER 90D	4
1	1	1	1	1	703-1001-093	LABEL, POWER ON/OFF	3
1	1	1	1	1	801-0815-002	ENCLOSURE, LVD-OEM	2
1	1	1	1	1	801-0815-001	ENCLOSURE, POWER SUPPLY	1

B 12227 ADDED ITEM 52		A 12127 RELEASE	
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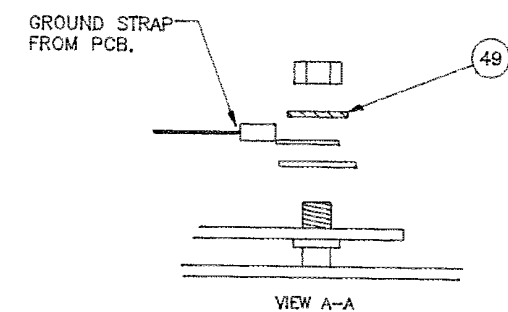
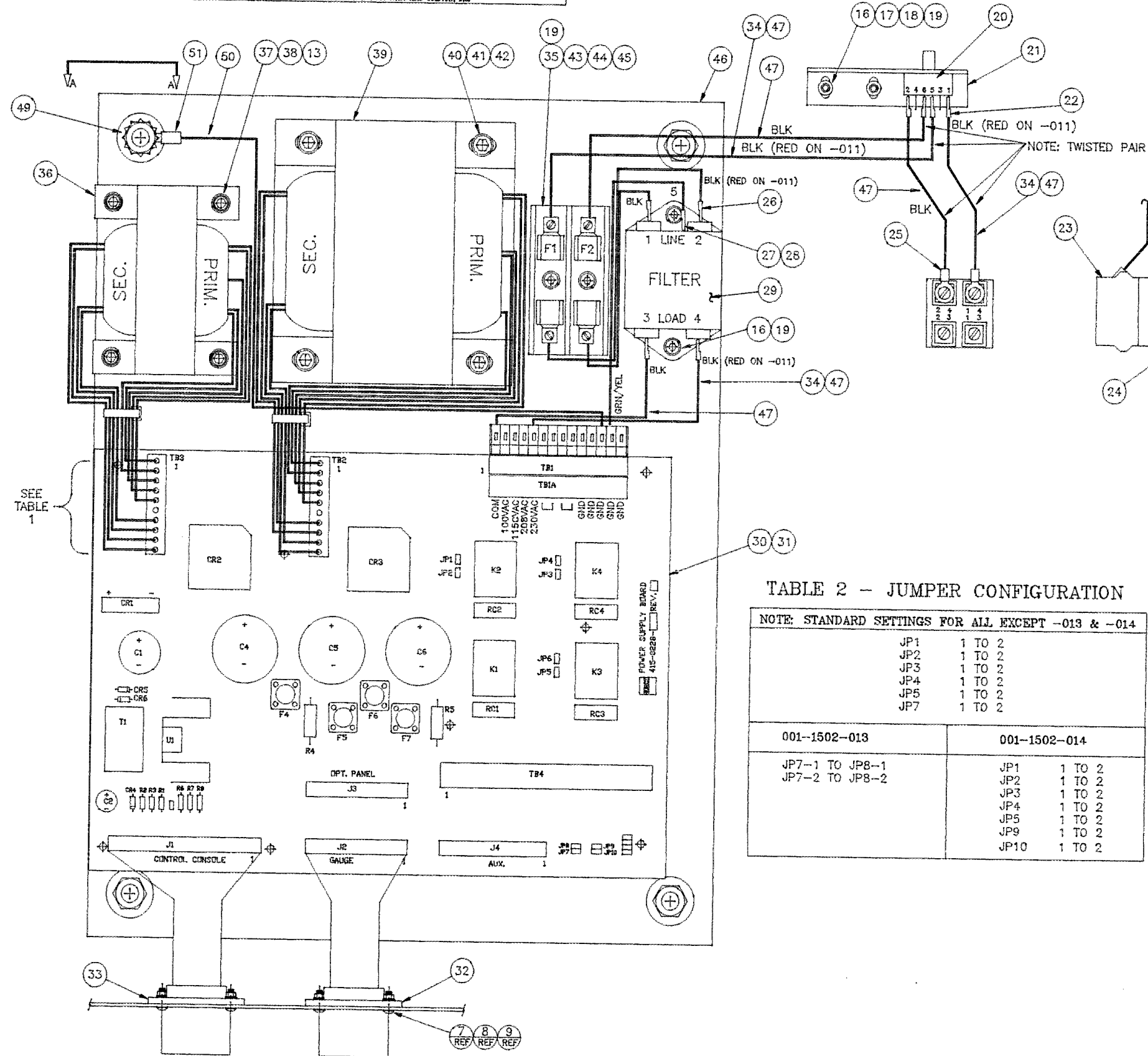


TABLE 1

WIRING COLOR CODE				
TB3			TB2	
TERM. #	FUNCTION	WIRE CLR.	TERM. #	FUNCTION WIRE CLR.
1	COM	BLK	1	COM BLK
2	100	BLK/WHT	2	100 BLK/WHT
3	115	WHT	3	115 WHT
4	201	RED	4	201 RED
5	230	RED/WHT	5	230 RED/WHT
6	NC	OPEN	6	NC OPEN
7	A 11VAC(8A)	YEL	7	A 33VAC (16A) GRN
8	B SEC	YEL	8	B SEC GRN
9	A 11VAC(2A)	GRN	9	A SEC YEL
10	B SEC	GRN	10	B SEC YEL

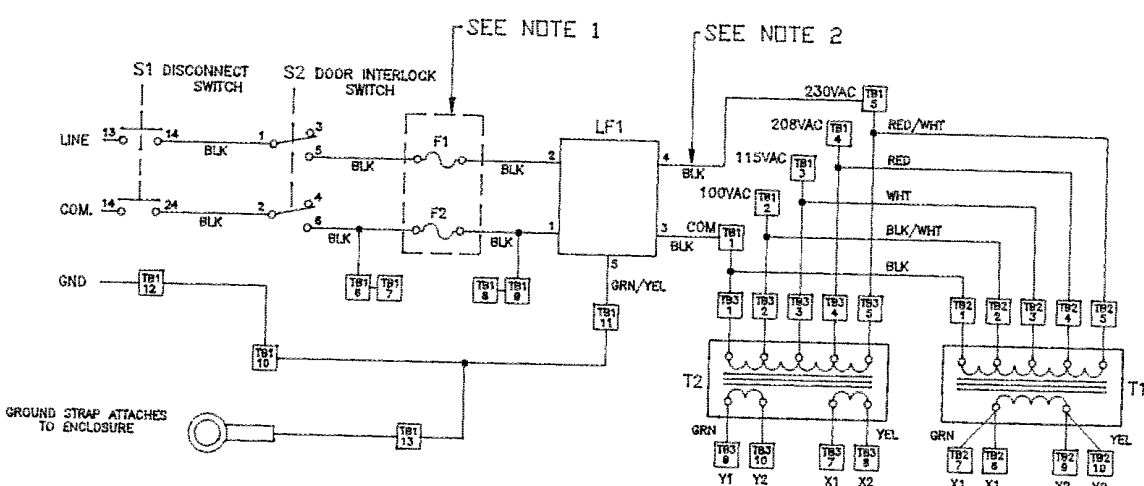
TABLE 2 - JUMPER CONFIGURATION

NOTE: STANDARD SETTINGS FOR ALL EXCEPT -013 & -014		
	JP1	1 TO 2
	JP2	1 TO 2
	JP3	1 TO 2
	JP4	1 TO 2
	JP5	1 TO 2
	JP6	1 TO 2
	JP7	1 TO 2
001-1502-013	001-1502-014	
JP7-1 TO JP8-1	JP1	1 TO 2
JP7-2 TO JP8-2	JP2	1 TO 2
	JP3	1 TO 2
	JP4	1 TO 2
	JP5	1 TO 2
	JP9	1 TO 2
	JP10	1 TO 2

CN
AB094-2

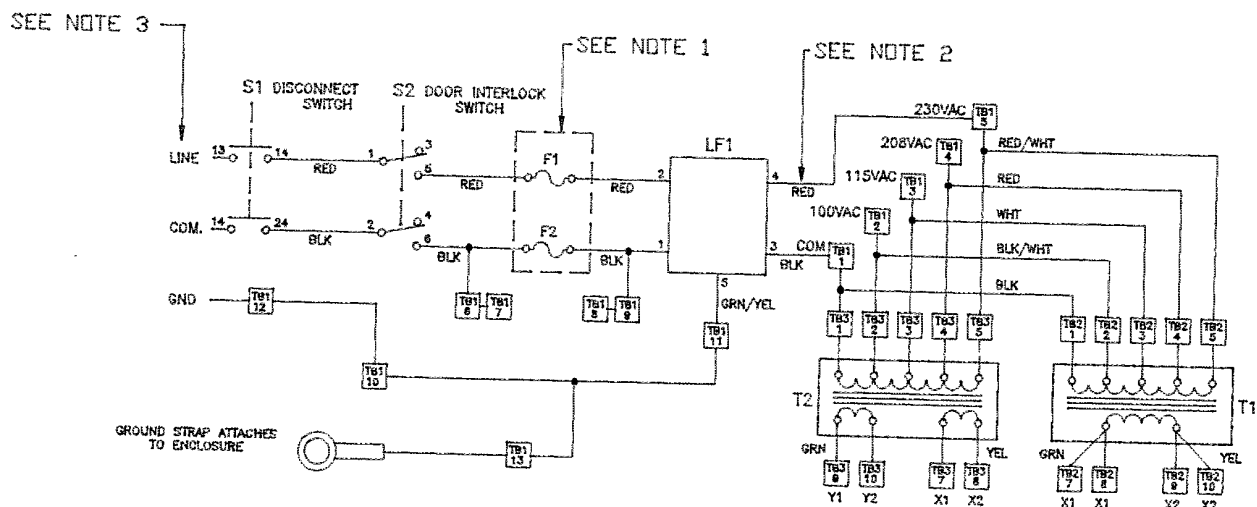
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL	
TREAT TREATMENT		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
FIRST LINE ON		DESCRIPTION ASSY., AB5C POWER CABINET	
THIRD ANGLE PROJECTION		SCALE 1=1	
DATE		DATE	
06/02/92		06/02/92	
AET		AET	
001-1502-009		001-1502-016	
THRU		THRU	
001-1502-016		001-1502-016	

WIRING DIAGRAM FOR ALL 01-1502-XXX WITH EXCEPTION OF 001-1502-011



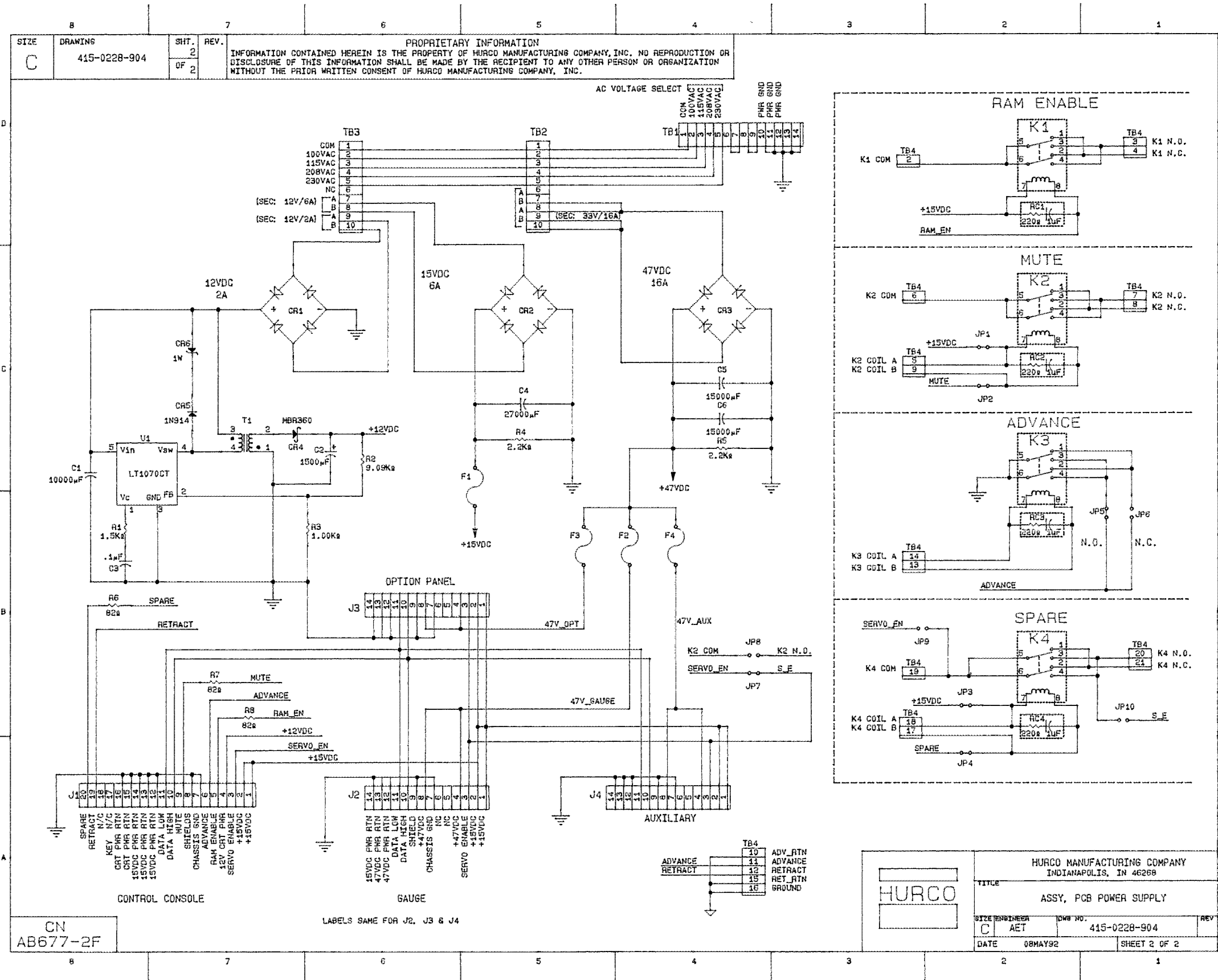
- NOTES:
- 1) FUSE F1 & F2 ITEM #35 FOR 115VAC
ITEM # 44 FOR 230VAC.
 - 2) CONNECT LF1-4 WIRE TO TB1-5 FOR
230 VAC OPERATION. CONNECT TO
TB1-3 FOR 115 VAC OPERATION.
 - 3) ON -011 ASSEMBLY LINE WIRES ARE RED
(ITEM # 34) INSTEAD OF BLACK (ITEM #47).

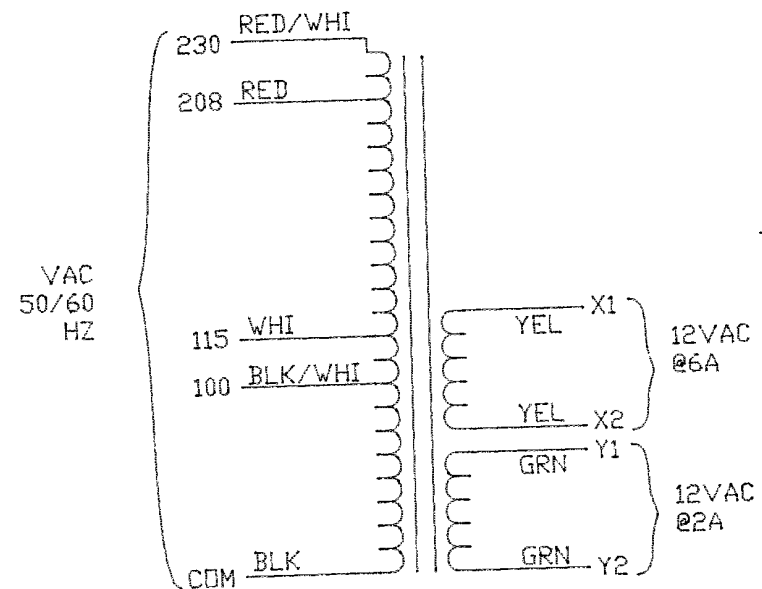
WIRING DIAGRAM FOR 001-1502-011



CN
AB094-3

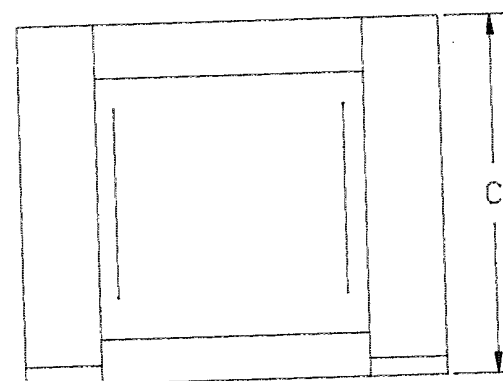
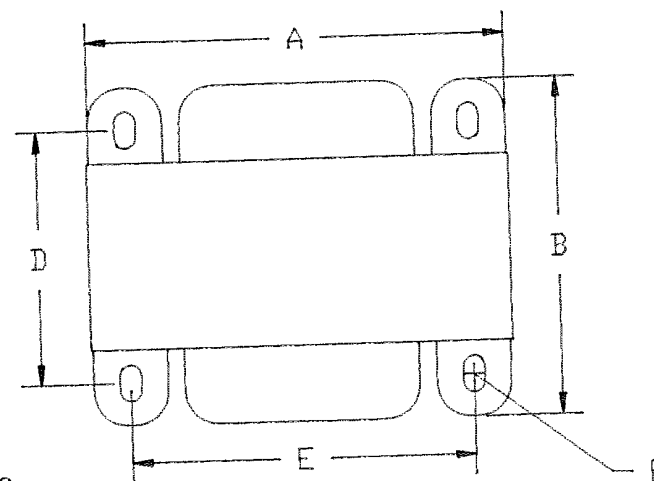
SURFACE TREATMENT 	EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .00 ±.0000 .01 ±.0005 .02 ±.0010 .03 ±.0015 .04 ±.0020 .05 ±.0025 .06 ±.0030 .07 ±.0035 .08 ±.0040 .09 ±.0045 .10 ±.0050 ANGULAR ± .030° BREAK ALL SHARP EDGES			HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.		
		DESCRIPTION ASSY., AB5C POWER CABINET				
FINISH TREATMENT 	FIRST USED ON 	DRAWN KLP	CHECKED AET	DATE 08/02/92	APPROVED DATE 08/02/92	REV.
		SCALE 1=1 UNIT OF MEAS PC	SIZE D	DRAWING 001-1502-009 THRU 001-1502-016		SHT. 3 OF 3





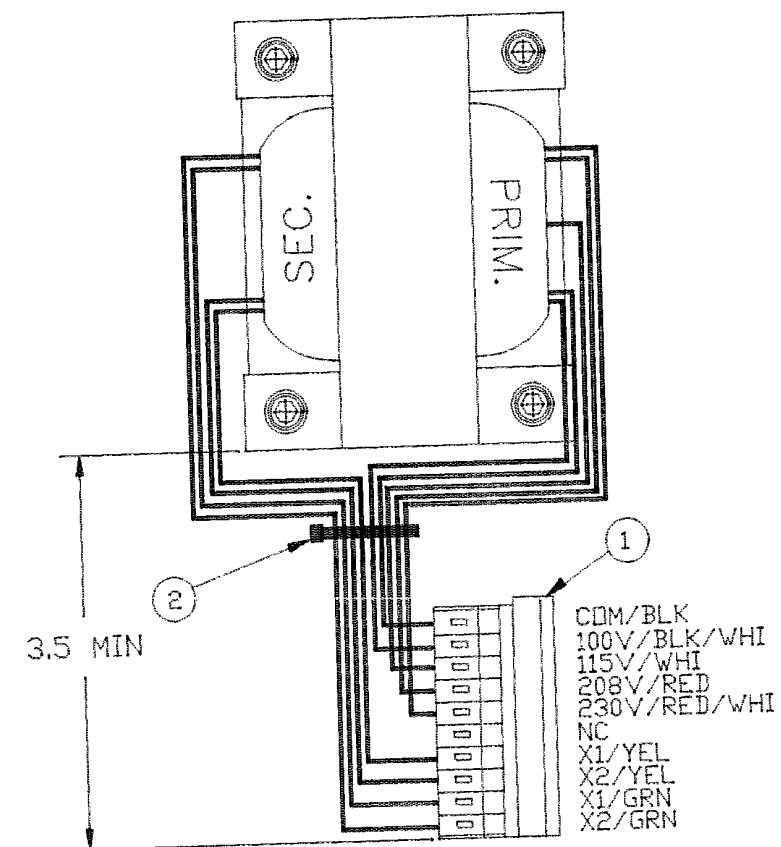
DIMENSIONS					
MAX.			MOUNTING		
A	B	C	D	E	F
3.81	3.00	3.19	2.25 +/- .13	3.13 +/- .06	2.03V X.326D

SECONDARY	V@FULL LOAD
X1--X2	11.5-12.5@6A
Y1--Y2	11.5-12.5@2A



NOTES:

- USE 29 LAMINATION M6 E1-1 1/4
UL RECOGNIZED MEC 130 INSULATION SYSTEM
- WIRES STRIPPED 1/4" AND INSERTED AS SHOWN

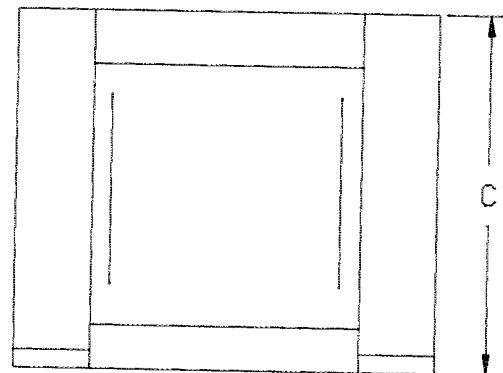
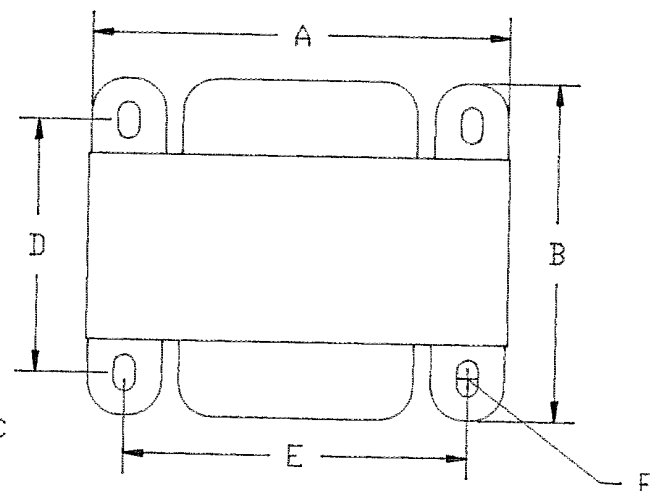
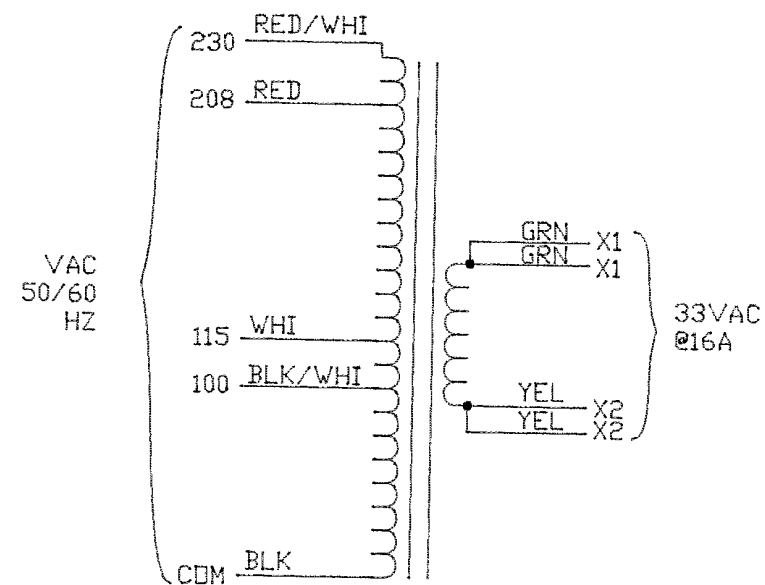


SEE NOTE 2.

REF	406-7501-010	WIRE TIE	2
REF	406-4005-207	CONNECTOR, 10 POS MALE .2 CEN	1
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
SURFACE TREATMENT	EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
SEE NOTES	DECIMAL .0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± 0°30' BREAK ALL SHARP EDGES	DESCRIPTION TRANSFORMER, AB5C 11VAC	
HEAT TREATMENT	~	DRAWN AET	DATE 28MAY92
FIRST USED ON	001-1502-009 THRU -016	SCALE 1=1 UNIT OF MEAS PC	CHECKED AET
		DATE 29MAY92	APPROVED
		DRAWING 413-0003-130	DATE
		SHT. 1	REV.
		OF 1	

REV	DATE	CHK BY	DATE	APP BY	DATE	OF
A	12127	ORIGINAL ISSUE				
REVISION DESCRIPTION						

CN
AB691

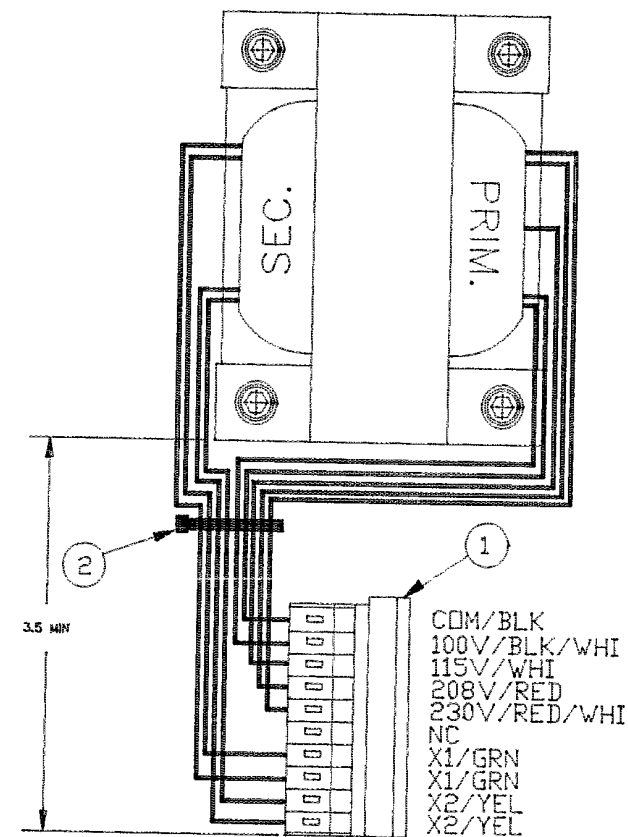


DIMENSIONS					
MAX.			MOUNTING		
A	B	C	D	E	F
5.31	5.00	4.44	3.63 +/- .13	4.38 +/- .06	.28W X.56D

SECONDARY	V@FULL LOAD
X1--X2	33V+/-2@16A

NOTES:

1. USE 29 LAMINATION M6 E1-1 3/4
UL RECOGNIZED MEC 130 INSULATION SYSTEM
2. WIRES STRIPPED 1/4" AND INSERTED AS SHOWN



SEE NOTE 2.

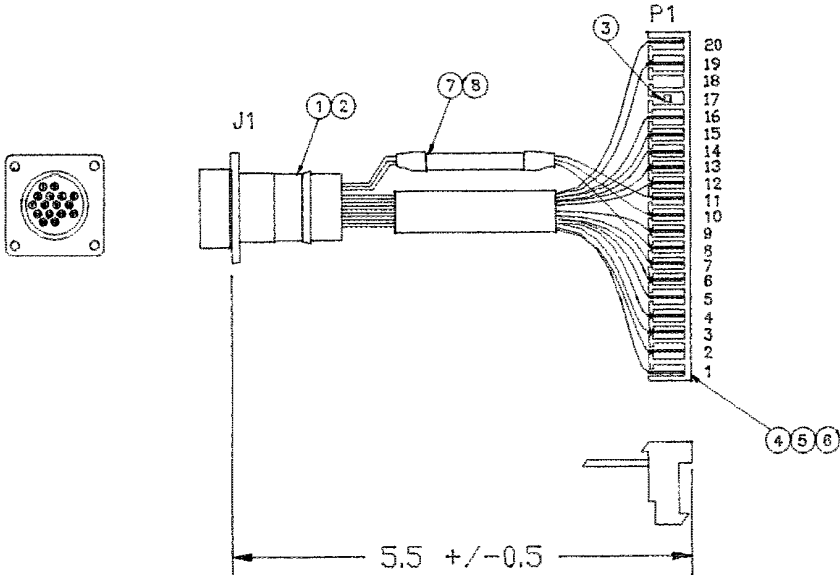
CN
AB690

REV	PLN NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE	DF
A	12127	ORIGINAL ISSUE							

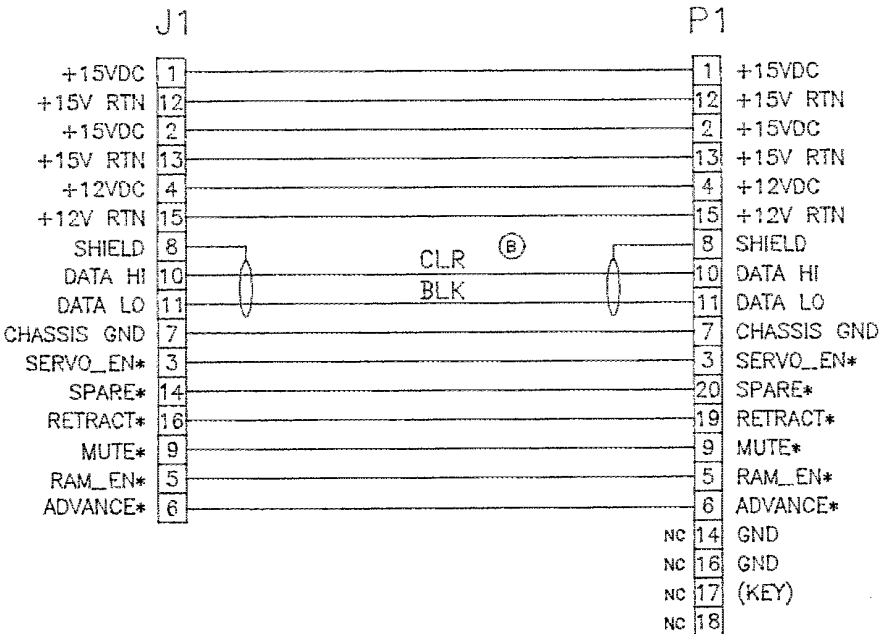
REF	406-7501-010	WIRE TIE	2
REF	406-4005-207	CONNECTOR, 10 POS MALE .2 CEN	1
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
SURFACE TREATMENT			
SEE NOTES			
HEAT TREATMENT			
EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± .030° BREAK ALL SHARP EDGES			
THIRD ANGLE PROJECTION			
FIRST USED ON 001-1502-009 THRU -016			
HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.			
DESCRIPTION TRANSFORMER, AB5C 33VAC			
DRAWN AET	DATE 28MAY92	CHECKED AET	DATE 29MAY92
SCALE 1=1	SIZE C	UNIT OF MEAS PC	SHT. 1 OF 1

SIZE	DRAWING	SHT.	REV.
C	423-0120-002	1 OF 1	

PROPRIETARY INFORMATION
 INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HURCO MANUFACTURING COMPANY, INC. NO REPRODUCTION OR DISCLOSURE OF THIS INFORMATION SHALL BE MADE BY THE RECIPIENT TO ANY OTHER PERSON OR ORGANIZATION WITHOUT THE PRIOR WRITTEN CONSENT OF HURCO MANUFACTURING COMPANY, INC.



- NOTES:
 1. LABEL HARNESS WITH PART NUMBER AND REVISION.
 2. LABEL CONNECTORS AS SHOWN.



2"	406-6481-004	TUBING, SHRINK 1/4 DIA	8
6"	406-1242-002	CABLE 2 COND SHIELD 18 AWG	7
1	406-0803-952	COVER, MTA-156 20-POS STRAIN RELIEF	6
1	406-0803-236	HOUSING, MTA-156 20-POS 18 AWG	5
84"	406-1683-010	WIRE, BLK 18 AWG	4
1	406-0803-086	KEYING PLUG, MTA-156	3
16	406-7501-010	PIN CONTACT, 18-16 GA	2
1	406-0485-004	RECEPTACLE, STD SEX SQ FL 17-16	1

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
SURFACE TREATMENT			
HEAT TREATMENT			
FIRST USED ON			
THRU			
SCALE			
UNIT OF MEAS			
DRAWN			
CHECKED			
DATE			
APPROVED			
DATE			
SHT.			
REV.			

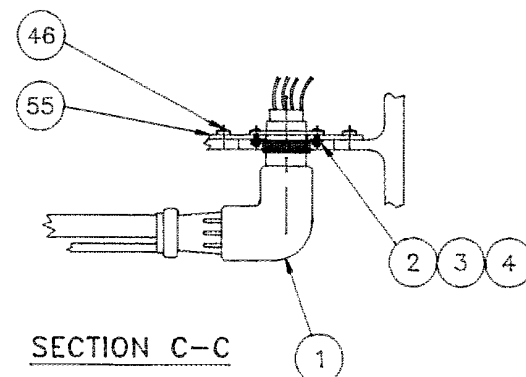
CN
 AB162

REV	P.L.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APPROV BY	DATE	DF
B	12194	ADDED COLORS, 84 WAS 65, 16 WAS 11		6/19/92					
A	12127	ORIGINAL ISSUE							

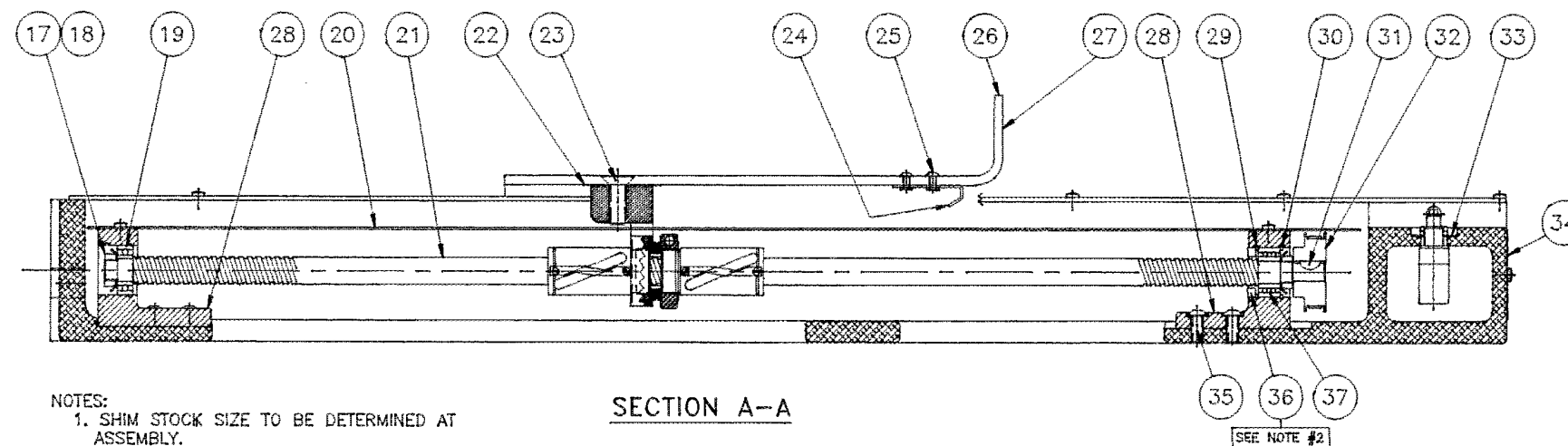
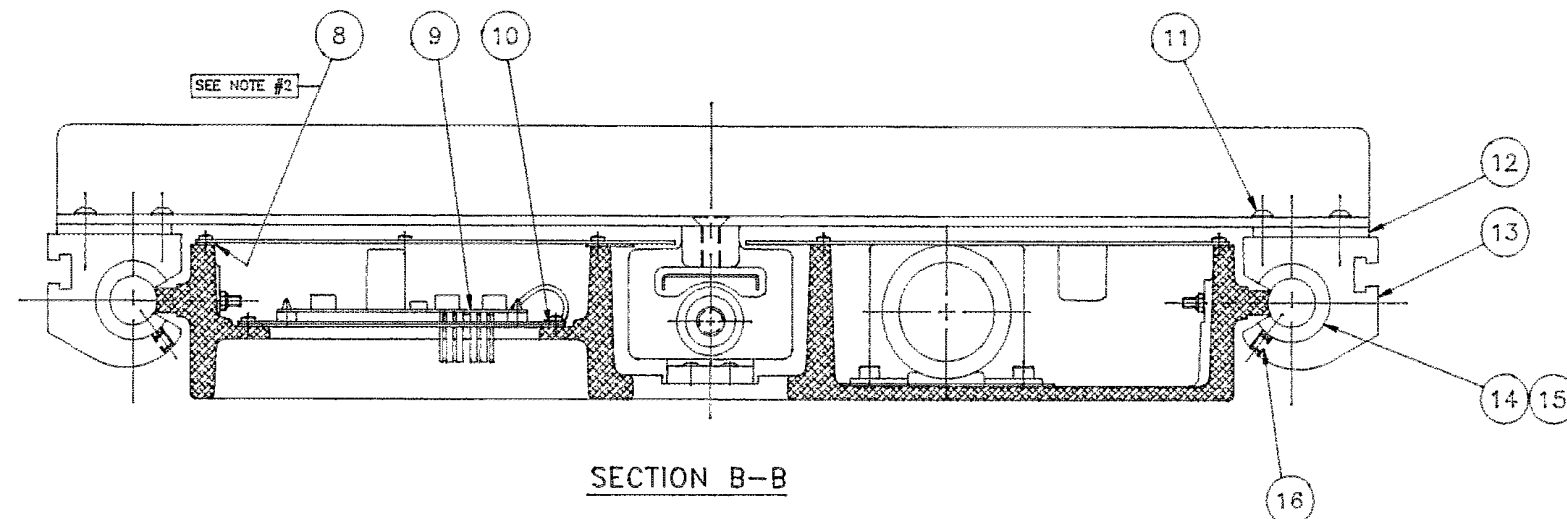
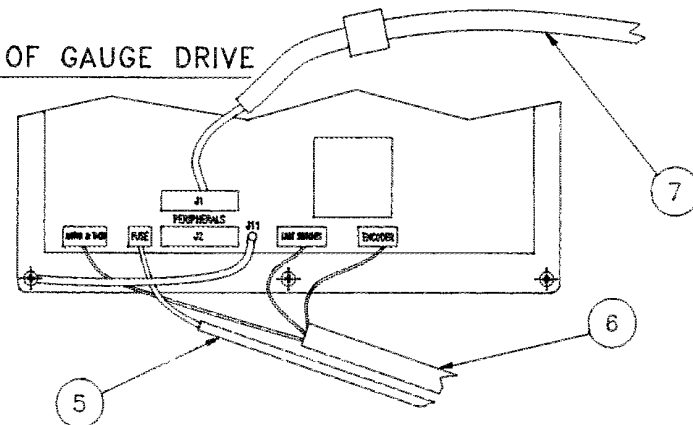
**B**

A

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PLAN VIEW OF GAUGE DRIVE



- NOTES:
- SHIM STOCK SIZE TO BE DETERMINED AT ASSEMBLY.
801-0813-001 - RED (.002)
-002 - BLUE (.005)
-003 - BROWN (.010)
-004 - YELLOW (.020)
 - X-30 CONTACT CEMENT TO BE USED TO ASSEMBLE ITEMS #8 AND 36.
 - PART NUMBER - 001-1426-003 - STANDARD GAUGE
001-1426-004 - LVD/OEM GAUGE

CN
AB039-1

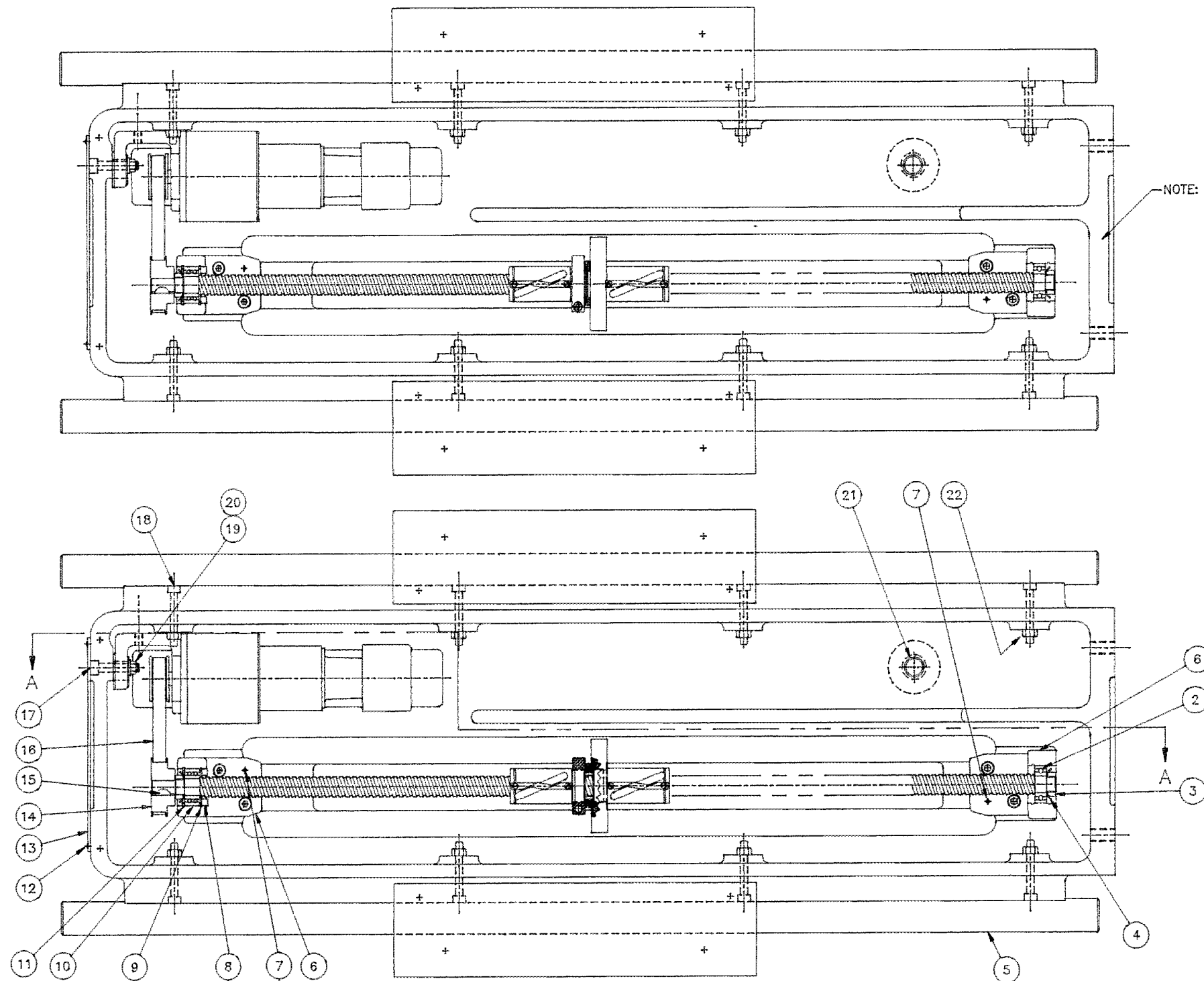
QTY.	QTY.	PART NUMBER	PART DESCRIPTION	QTY.
1	1	801-0732-003	PLATE, INTERNAL GAUGE HARNESS	55
1	1	703-1001-129	LABEL, INFO & WARNING	54
4	4	111-0241-001	RIVET, A6-32 SCOVIL	53
1	1	704-0001-287	PACKING LIST, AUTOBEND	52
1	1	001-1430-001	ASSY, SHIPPING BOX	51
1	1	801-0616-003	ARM, 32" ABS CONTROL LVD/OEM	50
1	1	801-0616-002	ARM, 32" ABS CONTROL	49
1	1	801-0647-002	FRAME, S7 MAIN	48
1	1	204-0002-002	GEARBELT, 170XL037	47
36	36	123-0001-008	SCREW, #10 X 1/2 TYPE B, PH TAP	46
2	2	901-0080-001	ROD, S7 GUIDE	45
8	8	117-0100-007	LOCKNUT, M6 DIN 985	44
2	2	101-8010-004	SHCS, M8 X 1.25 P X 18 LG.	43
1	1	001-1424-001	ASSY, S7 MOTOR, TACH., ENCODER	42
4	4	112-5026-002	SPRING PIN, M10 X 24 LG.	41
1	1	801-0648-001	COVER, RIGHT GAUGE	40
2	2	112-5024-004	SPRING PIN, M6 X 20 LG.	39
1	1	801-0648-002	COVER, LEFT GAUGE	38
1	1	211-0035-003	BEARING, DBL ROW BALL MRC 5202SBK72	37
1	1	801-0746-001	RING, STOP BUMPER	36
4	4	108-5005-004	BHCS, M8 X 1.25 P X 20 LG.	35
1	1	703-1001-082	NAMEPLATE, S7	34
1	1	605-8001-009	WASHER, BELLEVILLE #B1250-89	33
1	1	208-0002-001	PULLEY, GEARBELT #30XL037	32
1	1	609-0001-010	KEY, #4 WOODRUFF (3/32 X 5/8)	31
1	1	113-0001-013	RETAINING RING, INT. BASIC 1.375	30
1	1	113-0008-025	RETAINING RING, BOW 1.375 X 1.526	29
2	2	801-0645-001	BRACKET, DRIVE BEARING	28
2.83"	2.83"	703-0003-009	TAPE, BLACK/YELLOW STRIPED WARNING	27
1	1	801-0735-004	SADDLE, S7	26
2	2	108-8003-004	RHSCS, M5 X 0.8 P X 12 LG	25
1	1	801-0912-001	SWITCH ACTUATOR	24
1	1	102-5007-004	FHSCS, M12 X 1.75 P X 35 LG.	23
1	1	801-0813-XXX	SHIM STOCK, S7 (SEE NOTE 1)	22
1	1	001-1525-002	ASSY, S7 BALL NUT/PRELOAD	21
1	1	801-0636-001	COVER, BALL SCREW	20
1	1	211-0009-025	BEARING, BALL 6202-2RS	19
2	2	211-0088-001	LOCKWASHER, BEARING #AFBM W-02	18
2	2	211-0087-001	LOCKNUT, BEARING #AFBMA N-02	17
4	4	103-5185-021	SHSS, M8 X 1.25 P X 10 LG. CONE PT.	16
4	4	608-0005-005	SEAL, BALL BUSHING, OP STD 1.25 DIA.	15
4	4	211-5002-008	BUSHING, BALL (SUPER 20 CPH)	14
2	2	801-0703-001	BEARING BLOCK	13
2	2	801-0735-005	PAD, S7 SADDLE	12
8	8	108-5006-003	BHCS, M10 X 1.5 P X 25 LG.	11
1	1	608-3044-002	GASKET, ELECTRICAL BOX 3/32 THK.	10
1	1	001-1408-004	ASSY, SMART GAUGE DRIVE	9
1	1	608-3044-011	GASKET, MAIN FRAME	8
1	1	423-8085-011	HARNESS, INTERIOR PERIPHERAL	7
1	1	423-6091-003	HARNESS, MTR/TACH/ENC/CAL SW.	6
1	1	423-6087-003	HARNESS, GAUGE CIR, BREAKER S7	5
4	4	117-5009-001	HEX NUT, M3 X .5 P	4
4	4	110-0082-001	LOCKWASHER, #4 INTERNAL	3
4	4	109-5008-006	PHMS, M3 X 0.5 P X 10 LONG	2
1	1	423-0057-010	HARNESS, EXTERIOR PERIPHERAL	1

QTY.	QTY.	PART NUMBER	PART DESCRIPTION	QTY.
1	1	801-0732-003	PLATE, INTERNAL GAUGE HARNESS	55
1	1	703-1001-129	LABEL, INFO & WARNING	54
4	4	111-0241-001	RIVET, A6-32 SCOVIL	53
1	1	704-0001-287	PACKING LIST, AUTOBEND	52
1	1	001-1430-001	ASSY, SHIPPING BOX	51
1	1	801-0616-003	ARM, 32" ABS CONTROL LVD/OEM	50
1	1	801-0616-002	ARM, 32" ABS CONTROL	49
1	1	801-0647-002	FRAME, S7 MAIN	48
1	1	204-0002-002	GEARBELT, 170XL037	47
36	36	123-0001-008	SCREW, #10 X 1/2 TYPE B, PH TAP	46
2	2	901-0080-001	ROD, S7 GUIDE	45
8	8	117-0100-007	LOCKNUT, M6 DIN 985	44
2	2	101-8010-004	SHCS, M8 X 1.25 P X 18 LG.	43
1	1	001-1424-001	ASSY, S7 MOTOR, TACH., ENCODER	42
4	4	112-5026-002	SPRING PIN, M10 X 24 LG.	41
1	1	801-0648-001	COVER, RIGHT GAUGE	40
2	2	112-5024-004	SPRING PIN, M6 X 20 LG.	39
1	1	801-0648-002	COVER, LEFT GAUGE	38
1	1	211-0035-003	BEARING, DBL ROW BALL MRC 5202SBK72	37
1	1	801-0746-001	RING, STOP BUMPER	36
4	4	108-5005-004	BHCS, M8 X 1.25 P X 20 LG.	35
1	1	703-1001-082	NAMEPLATE, S7	34
1	1	605-8001-009	WASHER, BELLEVILLE #B1250-89	33
1	1	208-0002-001	PULLEY, GEARBELT #30XL037	32
1	1	609-0001-010	KEY, #4 WOODRUFF (3/32 X 5/8)	31
1	1	113-0001-013	RETAINING RING, INT. BASIC 1.375	30
1	1	113-0008-025	RETAINING RING, BOW 1.375 X 1.526	29
2	2	801-0645-001	BRACKET, DRIVE BEARING	28
2.83"	2.83"	703-0003-009	TAPE, BLACK/YELLOW STRIPED WARNING	27
1	1	801-0735-004	SADDLE, S7	26
2	2	108-8003-004	RHSCS, M5 X 0.8 P X 12 LG	25
1	1	801-0912-001	SWITCH ACTUATOR	24
1	1	102-5007-004	FHSCS, M12 X 1.75 P X 35 LG.	23
1	1	801-0813-XXX	SHIM STOCK, S7 (SEE NOTE 1)	22
1	1	001-1525-002	ASSY, S7 BALL NUT/PRELOAD	21
1	1	801-0636-001	COVER, BALL SCREW	20
1	1	211-0009-025	BEARING, BALL 6202-2RS	19
2	2	211-0088-001	LOCKWASHER, BEARING #AFBM W-02	18
2	2	211-0087-001	LOCKNUT, BEARING #AFBMA N-02	17
4	4	103-5185-021	SHSS, M8 X 1.25 P X 10 LG. CONE PT.	16
4	4	608-0005-005	SEAL, BALL BUSHING, OP STD 1.25 DIA.	15
4	4	211-5002-008	BUSHING, BALL (SUPER 20 CPH)	14
2	2	801-0703-001	BEARING BLOCK	13
2	2	801-0735-005	PAD, S7 SADDLE	12
8	8	108-5006-003	BHCS, M10 X 1.5 P X 25 LG.	11
1	1	608-3044-002	GASKET, ELECTRICAL BOX 3/32 THK.	10
1	1	001-1408-004	ASSY, SMART GAUGE DRIVE	9
1	1	608-3044-011	GASKET, MAIN FRAME	8
1	1	423-8085-011	HARNESS, INTERIOR PERIPHERAL	7
1	1	423-6091-003	HARNESS, MTR/TACH/ENC/CAL SW.	6
1	1	423-6087-003	HARNESS, GAUGE CIR, BREAKER S7	5
4	4	117-5009-001	HEX NUT, M3 X .5 P	4
4	4	110-0082-001	LOCKWASHER, #4 INTERNAL	3
4	4	109-5008-006	PHMS, M3 X 0.5 P X 10 LONG	2
1	1	423-0057-010	HARNESS, EXTERIOR PERIPHERAL	1

NOTE:
 AFTER ACCURACY
 CHECKING, $\frac{224}{230}$ DIA,
 DRILL THRU, (2) PLCS,
 FOR INSERTION OF
 SPRING PIN, ITEM #39.

NOTE:
 AFTER ACCURACY CHECK, DRILL
 .397 DIA X 1.0 DEEP,
 (4) PLACES, FOR SPRING
 PIN, ITEM #41.

SURFACE TREATMENT	EXCEPT AS NOTED ALL DIMENSIONS IN UNLESS TOLERANCE				HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.			
	DECIMAL .00 ±.0000 .000 ±.0000 .0000 ±.0000 ANGULAR ± .030° BREAK ALL SHARP EDGES THIRD ANGLE PROJECTION				DESCRIPTION ASSEMBLY, S7 GAUGE DRAWN J.L.W. 10/22/91 CHECKED R.J.H. 10/25/91 APPROVED D.D.C. 10-31-91			
HEAT TREATMENT	S7				SCALE	1=2	SIZE	D
FIRST USED ON	S7				UNIT OF MEAS	PC	DRAWING	001-1426-003
								-004
								2
								2



NOTE: AFTER ACCURACY CHECK, DRILL $\frac{224}{230}$ DIA X 1.0 DEEP (2) PLACES FOR INSERTION OF SPRING PIN, ITEM #7.

BOTTOM VIEW OF S8 GAUGE

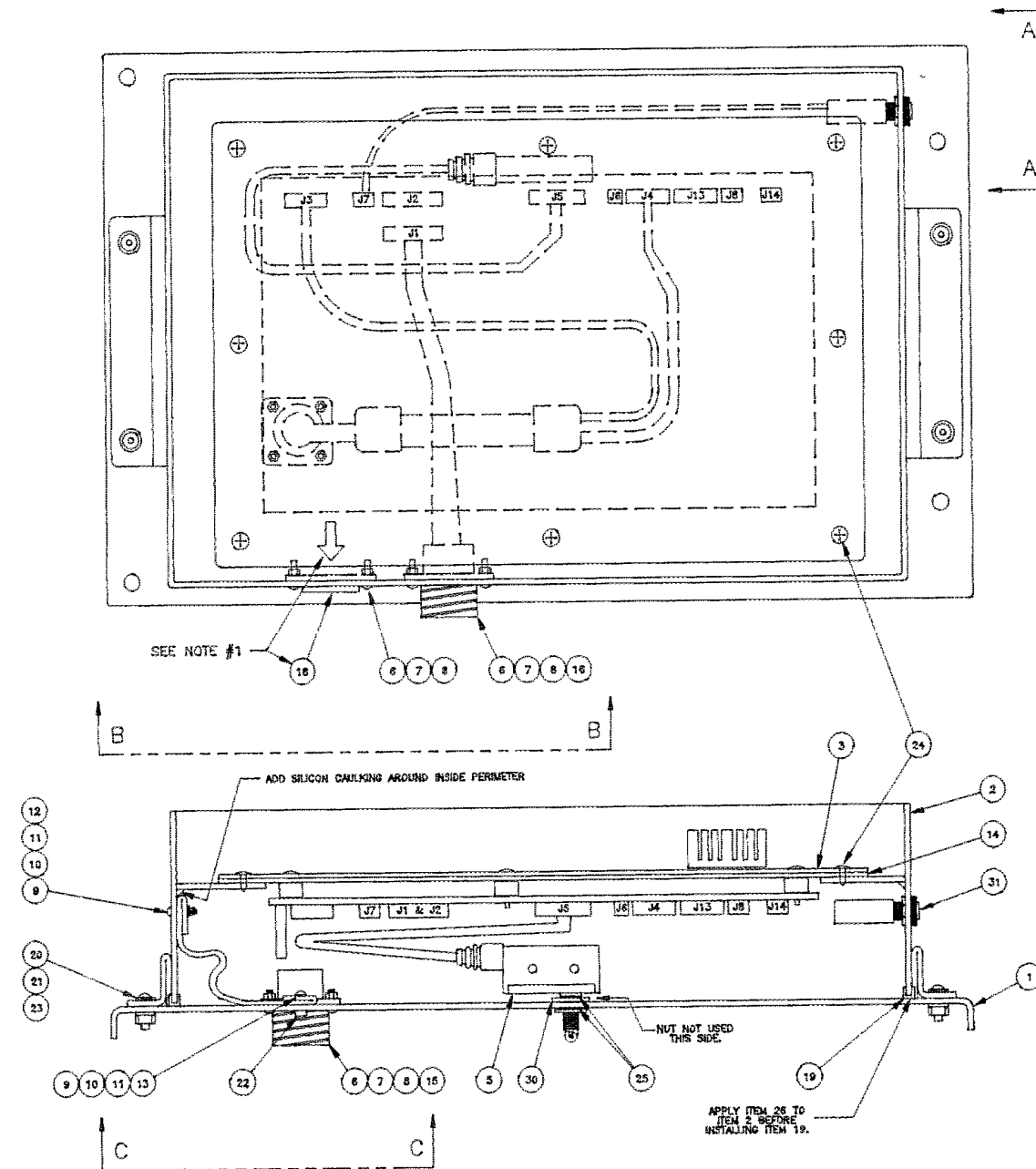
- NOTE:
- (1) 801-0814-001 RED (.002)
 - 801-0814-002 BLUE (.005)
 - 801-0814-003 BROWN (.010)
 - 801-0814-004 YELLOW (.020)
- (TO BE DETERMINED AT ASSY.)
- (2) ITEMS 40, 41, 42, 43, & 44 NOT SHOWN ON ASSEMBLY.
 - (3) X-30 CONTACT CEMENT TO BE USED TO ASSEMBLE ITEM #8.

NOTE: THIS UNIT SAME ITEMS AS UNIT BELOW.

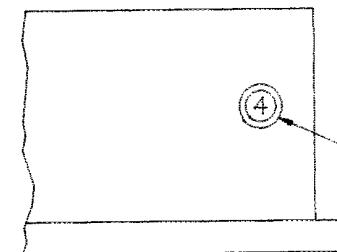
SEE NOTE 2	(V2)	1	423-0057-011	HARNES, EXTERIOR PERIPHERAL	46
		1	001-1453-006	ASSY, S8 SMART GAUGE DRIVE	45
		4	111-0241-001	RIVET, AD-32 SCOVIL	44
		1	703-1001-129	INFO & WARNING LABEL	43
SEE NOTE 1	(U8)	1	001-1430-001	ASSY, SHIPPING BOX	42
		1	704-0001-267	PACKING LIST, AB5	41
		1	801-0616-002	CONTROL ARM, STD	40
	(V1)	1	423-0057-010	HARNES, EXTERIOR PERIPHERAL	39
SEE NOTE 1		8	211-5002-008	BUSHING, BALL SUPER 20-OPN	38
		8	608-0005-005	SEAL, BALL BUSHING OP STD 1.25	37
		8	103-5165-021	SSS, M8 X 1.25 P X 10 LG. CONE PT.	36
		4	801-0703-001	BLOCK, BEARING	35
SEE NOTE 1		16	108-5006-002	BHSCS, M10 X 1.5 P X 20 LG.	34
		8	112-5026-001	SPRING PIN, M10 X 20 LG.	33
		8	101-5008-008	SHCS, M6 X 1 P X 20 LG.	32
		1	001-1453-005	ASSY, S6 SMART GAUGE DRIVE	31
SEE NOTE 1		2	801-0814-XXX	SHIM STOCK	30
		2	001-1525-001	ASSY, BALLNUT/PRELOAD	29
		8	108-5005-004	BHSCS, M8 X 1.25 P X 20 LG.	28
		4	102-5006-008	FHSCS, M10 X 1.5 P X 25 LG.	27
SEE NOTE 1		2	801-0712-001	CARRIAGE	26
		1.8*	703-0003-009	TAPE, BLK/YEL STRIPED WARNING	25
		2	001-1424-002	ASSY, MOTOR TACH, ENCODER	24
		2	801-0706-001	FRAME	23
SEE NOTE 1		16	117-0100-007	LOCKNUT, M6 X 1 P	22
		2	408-8001-040	PLUG, HOLE HEYCO #DP-750	21
		4	110-0066-012	LOCKWASHER, EXT. M8	20
		4	117-5015-001	NUT, HEX, M8 X 1.25 P	19
SEE NOTE 1		2	101-5010-008	SHCS, M8 X 1.25 P X 30 LG.	18
		4	101-5010-010	SHCS, M8 X 1.25 P X 40 LG.	17
		2	204-0002-007	BELT, TIMING, 130XLD37	16
		2	609-0001-010	KEY, #4 WOODRUFF, 3/32 X 5/8	15
SEE NOTE 1		2	208-0002-001	PULLEY, GEAR BELT, BROWN #30XLM037	14
		2	703-1001-081	NAMEPLATE, AB5/S8	13
		4	123-0001-008	SCREW, PPH, TYPE B TAP #10 X 1/2 LG	12
		2	113-0001-013	RETAINING RING, INT. BASIC, 1.375	11
SEE NOTE 1		2	211-0035-003	BEARING, DBL ROW BALL, #MRC-5202SBKZZ	10
		2	113-0008-025	RETAINING RING, BOW 1.375 X 1.526	9
		2	801-0746-001	RING, STOP BUMPER	8
		4	112-5024-004	SPRING PIN, M8 X 20 LG.	7
SEE NOTE 1		4	801-0645-001	BRACKET, DRIVE BEARING	6
		4	901-0083-001	ROD, GUIDE	5
		4	211-0088-001	LOCKWASHER, BEARING, AFBM W-02	4
		4	211-0087-001	LOCKNUT, BEARING, AFBM N-02	3
SEE NOTE 1		2	211-0009-025	BEARING, BALL, 6202-2RS	2
					1

QTY.	PART NUMBER	ITEM DESCRIPTION	PRQ
PARTS LIST			
SURFACE TREATMENT			
EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .01 .03 .05 .07 .10 .15 .20 .25 .30 .35 .40 .45 .50 .55 .60 .65 .70 .75 .80 .85 .90 .95 1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00 2.10 2.20 2.30 2.40 2.50 2.60 2.70 2.80 2.90 3.00 3.10 3.20 3.30 3.40 3.50 3.60 3.70 3.80 3.90 4.00 4.10 4.20 4.30 4.40 4.50 4.60 4.70 4.80 4.90 5.00 5.10 5.20 5.30 5.40 5.50 5.60 5.70 5.80 5.90 6.00 6.10 6.20 6.30 6.40 6.50 6.60 6.70 6.80 6.90 7.00 7.10 7.20 7.30 7.40 7.50 7.60 7.70 7.80 7.90 8.00 8.10 8.20 8.30 8.40 8.50 8.60 8.70 8.80 8.90 9.00 9.10 9.20 9.30 9.40 9.50 9.60 9.70 9.80 9.90 10.00 10.10 10.20 10.30 10.40 10.50 10.60 10.70 10.80 10.90 11.00 11.10 11.20 11.30 11.40 11.50 11.60 11.70 11.80 11.90 12.00 12.10 12.20 12.30 12.40 12.50 12.60 12.70 12.80 12.90 13.00 13.10 13.20 13.30 13.40 13.50 13.60 13.70 13.80 13.90 14.00 14.10 14.20 14.30 14.40 14.50 14.60 14.70 14.80 14.90 15.00 15.10 15.20 15.30 15.40 15.50 15.60 15.70 15.80 15.90 16.00 16.10 16.20 16.30 16.40 16.50 16.60 16.70 16.80 16.90 17.00 17.10 17.20 17.30 17.40 17.50 17.60 17.70 17.80 17.90 18.00 18.10 18.20 18.30 18.40 18.50 18.60 18.70 18.80 18.90 19.00 19.10 19.20 19.30 19.40 19.50 19.60 19.70 19.80 19.90 20.00 20.10 20.20 20.30 20.40 20.50 20.60 20.70 20.80 20.90 21.00 21.10 21.20 21.30 21.40 21.50 21.60 21.70 21.80 21.90 22.00 22.10 22.20 22.30 22.40 22.50 22.60 22.70 22.80 22.90 23.00 23.10 23.20 23.30 23.40 23.50 23.60 23.70 23.80 23.90 24.00 24.10 24.20 24.30 24.40 24.50 24.60 24.70 24.80 24.90 25.00 25.10 25.20 25.30 25.40 25.50 25.60 25.70 25.80 25.90 26.00 26.10 26.20 26.30 26.40 26.50 26.60 26.70 26.80 26.90 27.00 27.10 27.20 27.30 27.40 27.50 27.60 27.70 27.80 27.90 28.00 28.10 28.20 28.30 28.40 28.50 28.60 28.70 28.80 28.90 29.00 29.10 29.20 29.30 29.40 29.50 29.60 29.70 29.80 29.90 30.00 30.10 30.20 30.30 30.40 30.50 30.60 30.70 30.80 30.90 31.00 31.10 31.20 31.30 31.40 31.50 31.60 31.70 31.80 31.90 32.00 32.10 32.20 32.30 32.40 32.50 32.60 32.70 32.80 32.90 33.00 33.10 33.20 33.30 33.40 33.50 33.60 33.70 33.80 33.90 34.00 34.10 34.20 34.30 34.40 34.50 34.60 34.70 34.80 34.90 35.00 35.10 35.20 35.30 35.40 35.50 35.60 35.70 35.80 35.90 36.00 36.10 36.20 36.30 36.40 36.50 36.60 36.70 36.80 36.90 37.00 37.10 37.20 37.30 37.40 37.50 37.60 37.70 37.80 37.90 38.00 38.10 38.20 38.30 38.40 38.50 38.60 38.70 38.80 38.90 39.00 39.10 39.20 39.30 39.40 39.50 39.60 39.70 39.80 39.90 40.00 40.10 40.20 40.30 40.40 40.50 40.60 40.70 40.80 40.90 41.00 41.10 41.20 41.30 41.40 41.50 41.60 41.70 41.80 41.90 42.00 42.10 42.20 42.30 42.40 42.50 42.60 42.70 42.80 42.90 43.00 43.10 43.20 43.30 43.40 43.50 43.60 43.70 43.80 43.90 44.00 44.10 44.20 44.30 44.40 44.50 44.60 44.70 44.80 44.90 45.00 45.10 45.20 45.30 45.40 45.50 45.60 45.70 45.80 45.90 46.00 46.10 46.20 46.30 46.40 46.50 46.60 46.70 46.80 46.90 47.00 47.10 47.20 47.30 47.40 47.50 47.60 47.70 47.80 47.90 48.00 48.10 48.20 48.30 48.40 48.50 48.60 48.70 48.80 48.90 49.00 49.10 49.20 49.30 49.40 49.50 49.60 49.70 49.80 49.90 50.00 50.10 50.20 50.30 50.40 50.50 50.60 50.70 50.80 50.90 51.00 51.10 51.20 51.30 51.40 51.50 51.60 51.70 51.80 51.90 52.00 52.10 52.20 52.30 52.40 52.50 52.60 52.70 52.80 52.90 53.00 53.10 53.20 53.30 53.40 53.50 53.60 53.70 53.80 53.90 54.00 54.10 54.20 54.30 54.40 54.50 54.60 54.70 54.80 54.90 55.00 55.10 55.20 55.30 55.40 55.50 55.60 55.70 55.80 55.90 56.00 56.10 56.20 56.30 56.40 56.50 56.60 56.70 56.80 56.90 57.00 57.10 57.20 57.30 57.40 57.50 57.60 57.70 57.80 57.90 58.00 58.10 58.20 58.30 58.40 58.50 58.60 58.70 58.80 58.90 59.00 59.10 59.20 59.30 59.40 59.50 59.60 59.70 59.80 59.90 60.00 60.10 60.20 60.30 60.40 60.50 60.60 60.70 60.80 60.90 61.00 61.10 61.20 61.30 61.40 61.50 61.60 61.70 61.80 61.90 62.00 62.10 62.20 62.30 62.40 62.50 62.60 62.70 62.80 62.90 63.00 63.10 63.20 63.30 63.40 63.50 63.60 63.70 63.80 63.90 64.00 64.10 64.20 64.30 64.40 64.50 64.60 64.70 64.80 64.90 65.00 65.10 65.20 65.30 65.40 65.50 65.60 65.70 65.80 65.90 66.00 66.10 66.20 66.30 66.40 66.50 66.60 66.70 66.80 66.90 67.00 67.10 67.20 67.30 67.40 67.50 67.60 67.70 67.80 67.90 68.00 68.10 68.20 68.30 68.40 68.50 68.60 68.70 68.80 68.90 69.00 69.10 69.20 69.30 69.40 69.50 69.60 69.70 69.80 69.90 70.00 70.10 70.20 70.30 70.40 70.50 70.60 70.70 70.80 70.90 71.00 71.10 71.20 71.30 71.40 71.50 71.60 71.70 71.80 71.90 72.00 72.10 72.20 72.30 72.40 72.50 72.60 72.70 72.80 72.90 73.00 73.10 73.20 73.30 73.40 73.50 73.60 73.70 73.80 73.90 74.00 74.10 74.20 74.30 74.40 74.50 74.60 74.70 74.80 74.90 75.00 75.10 75.20 75.30 75.40 75.50 75.60 75.70 75.80 75.90 76.00 76.10 76.20 76.30 76.40 76.50 76.60 76.70 76.80 76.90 77.00 77.10 77.20 77.30 77.40 77.50 77.60 77.70 77.80 77.90 78.00 78.10 78.20 78.30 78.40 78.50 78.60 78.70 78.80 78.90 79.00 79.10 79.20 79.30 79.40 79.50 79.60 79.70 79.80 79.90 80.00 80.10 80.20 80.30 80.40 80.50 80.60 80.70 80.80 80.90 81.00 81.10 81.20 81.30 81.40 81.50 81.60 81.70 81.80 81.90 82.00 82.10 82.20 82.30 82.40 82.50 82.60 82.70 82.80 82.90 83.00 83.10 83.20 83.30 83.40 83.50 83.60 83.70 83.80 83.90 84.00 84.10 84.20 84.30 84.40 84.50 84.60 84.70 84.80 84.90 85.00 85.10 85.20 85.30 85.40 85.50 85.60 85.70 85.80 85.90 86.00 86.10 86.20 86.30 86.40 86.50 86.60 86.70 86.80 86.90 87.00 87.10 87.20 87.30 87.40 87.50 87.60 87.70 87.80 87.90 88.00 88.10 88.20 88.30 88.40 88.50 88.60 88.70 88.80 88.90 89.00 89.10 89.20 89.30 89.40 89.50 89.60 89.70 89.80 89.90 90.00 90.10 90.20 90.30 90.40 90.50 90.60 90.70 90.80 90.90 91.00 91.10 91.20 91.30 91.40 91.50 91.60 91.70 91.80 91.90 92.00 92.10 92.20 92.30 92.40 92.50 92.60 92.70 92.80 92.90 93.00 93.10 93.20 93.30 93.40 93.50 93.60 93.70 93.80 93.90 94.00 94.10 94.20 94.30 94.40 94.50 94.60 94.70 94.80 94.90 95.00 95.10 95.20 95.30 95.40 95.50 95.60 95.70 95.80 95.90 96.00 96.10 96.20 96.30 96.40 96.50 96.60 96.70 96.80 96.90 97.00 97.10 97.20 97.30 97.40 97.50 97.60 97.70 97.80 97.90 98.00 98.10 98.20 98.30 98.40 98.50 98.60 98.70 98.80 98.90 99.00 99.10 99.20 99.30 99.40 99.50 99.60 99.70 99.80 99.90 100.00			

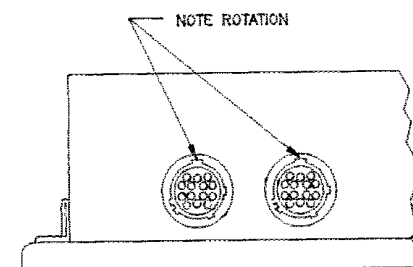
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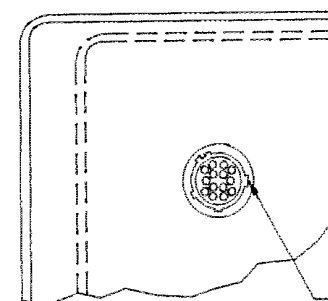
A
A



VIEW A



VIEW B



VIEW C

NOTES:

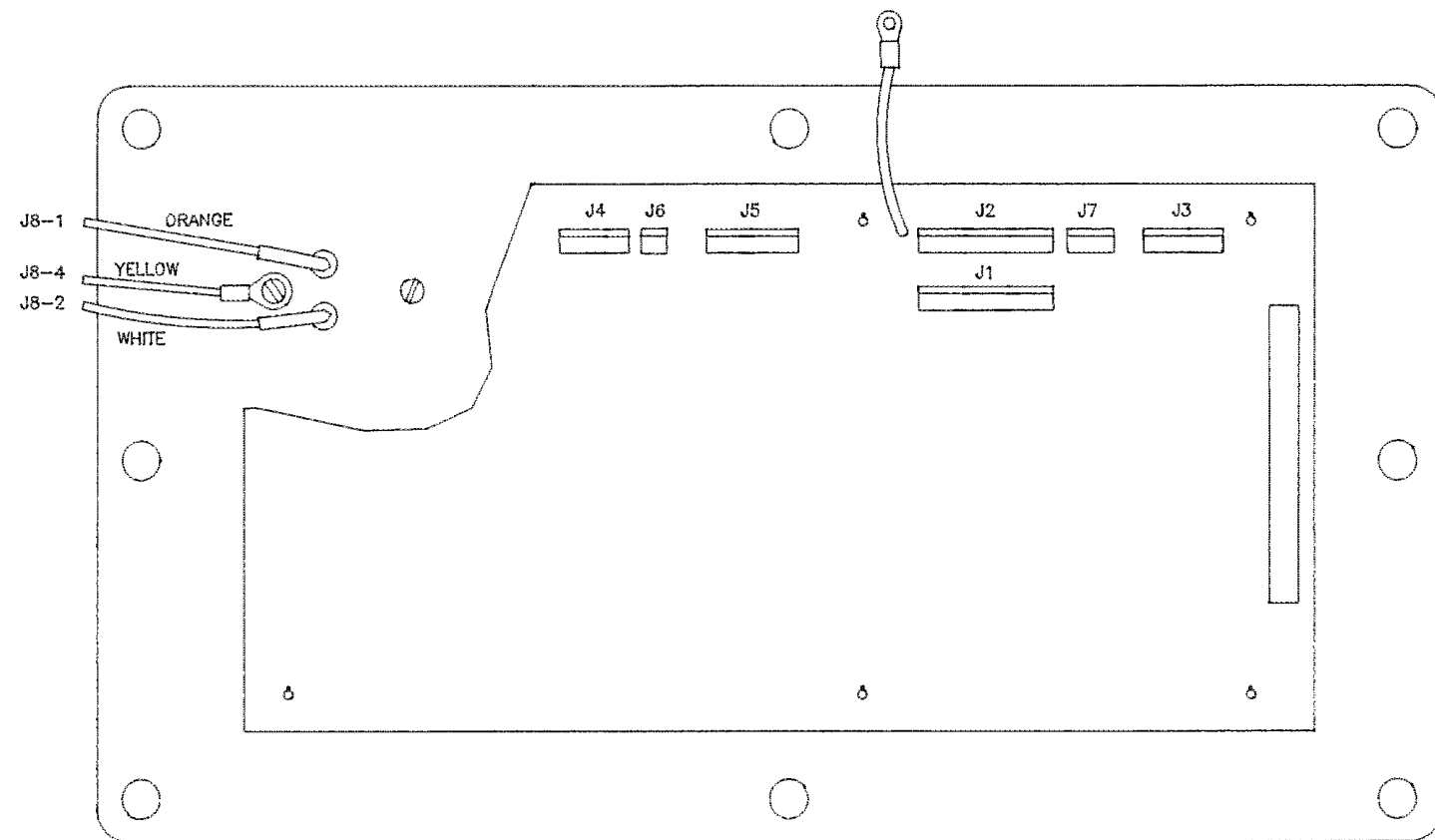
1. INSTALL ITEM 18 IN DIRECTION INDICATED.
2. ITEM 17 INSTALLED IN PLACE OF ITEM 18. CONNECT OTHER END OF CABLE TO J2 OF ITEM 3.
3. ASSY. -005 FOR S6 GAUGES.
ASSY -005 AND -006 REQUIRED FOR S8 GAUGES.

SECURE ITEM 31 SUCH THAT THE NUMBER "4" IS ORIENTED AS SHOWN.

SEE NOTE #2

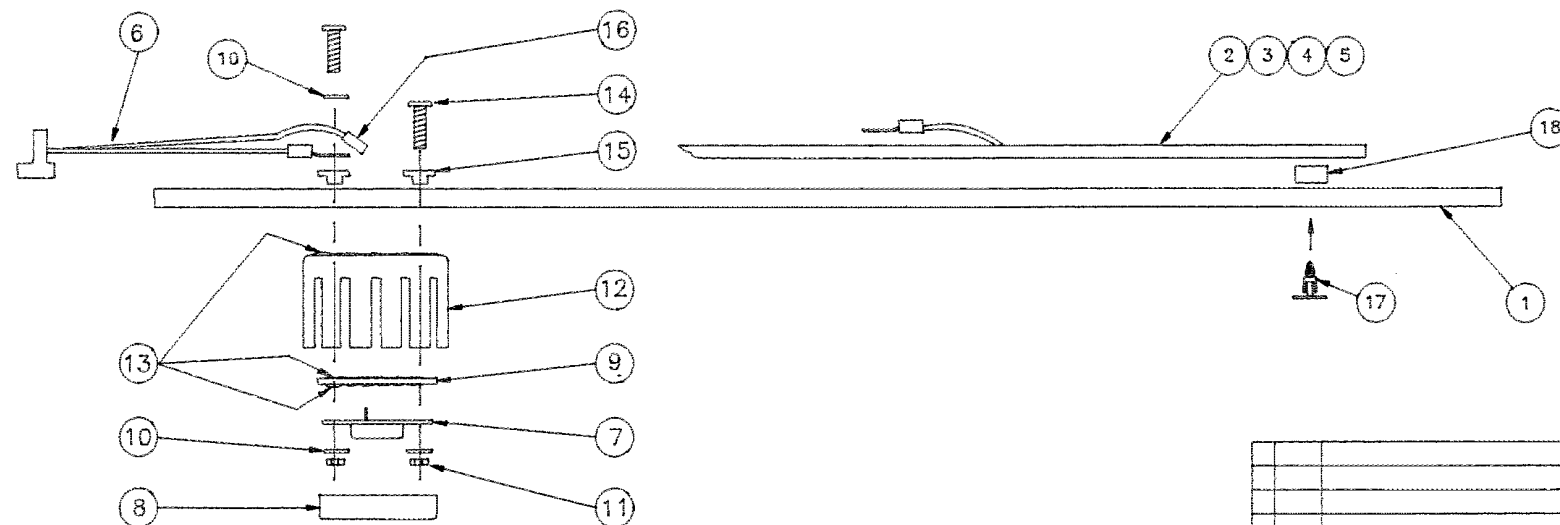
1	1	423-6087-001	HARNESS, CIRCUIT BREAKER	31
1	1	110-0064-009	THREAD SEALING WASHER	30
				29
				28
				27
REF	REF	334-0001-005	CONTACT CEMENT X30	26
2	2	110-0082-009	9/16 INT. TOOTH WASHER	25
8	8	123-0001-008	SCREW, SELF TAPPING #10 X 1/2	24
REF	REF	117-1002-003	M6 NUTSERT	23
REF	REF	117-1002-001	M4 NUTSERT	22
4	4	110-0067-007	M6 INT. TOOTH WASHER	21
4	4	101-5008-004	M6 X 16 SHCS	20
51"	51"	608-3044-039	GASKET, MOLDED	19
-	1	408-8001-026	HOLE PLUG, BP 1-1/8	18
1	-	423-6085-012	HARNESS, INTERIOR PERIPHERAL	17
1	1	423-6085-009	HARNESS, INTERIOR PERIPHERAL	16
1	1	423-6089-002	HARNESS, MOTOR, TACH, ENCODER	15
1	1	608-3044-002	GASKET, GAUGE DRIVE	14
2	2	324-0004-001	STRAP	13
2	2	117-5011-001	M4 X .7 STD. HEX NUT	12
4	4	110-5001-002	M4 FLAT WASHER	11
4	4	110-0067-006	M4 INT. TOOTH LOCKWASHER	10
4	4	108-5002-003	M4 X .7 X 12 SHCS	9
12	12	117-5009-001	M3 X .5 STD. HEX NUT	8
12	12	110-0067-004	M3 INT. TOOTH LOCKWASHER	7
12	12	101-5006-003	M3 X .5 X 10 SHCS	6
1	1	423-6210-001	HARNESS, CALIBRATION SWITCH	5
				4
1	1	001-1408-004	ASSEMBLY, GAUGE DRIVE	3
1	1	901-0107-001	ENCLOSURE, ELECTRONICS	2
1	1	801-0811-001	BASE, ELECTRICAL ENCLOSURE, AB6C	1
QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM

				SURFACE TREATMENT				EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCES DECIMAL				 HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.			
												DESCRIPTION			
				HEAT TREATMENT								AUTOBEND S6/S8			
												ELECTRICAL ENCLOSURE ASSEMBLY			
												DRAWN D.A.B. DATE 1/18/91 CHECKED DATE 1/22/91 APPR'D. DATE 2/5/91			
												SCALE 1:1			
												SHEET 1 OF 1			
												D 001-1453-005 006			
												PC			



NOTES:

1. SOLDER CABLE ORANGE AND WHITE LEADS AS SHOWN ABOVE AND THEN SHRINK FIT OVER SOLDER JOINT.
2. ENSURE ITEM 13 THERMAL COMPOUND IS APPLIED PER VIEW AT LEFT TO THE SHOWN AREAS.
3. -004 ASSEMBLY IS FOR S6, S7 AND S8 GAUGE DRIVES
-005 ASSEMBLY IS FOR 2ND AXIS UPACTING OPTIONS
-006 ASSEMBLY IS FOR 2ND AXIS DOWNACTING OPTIONS
-007 ASSEMBLY IS FOR 2ND AXIS M-STOP SMALL AND LARGE DC DRIVE OPTIONS
4. USE ITEM #18 IN CONJUNCTION WITH ITEM #17 FOR ADDITIONAL SUPPORT.

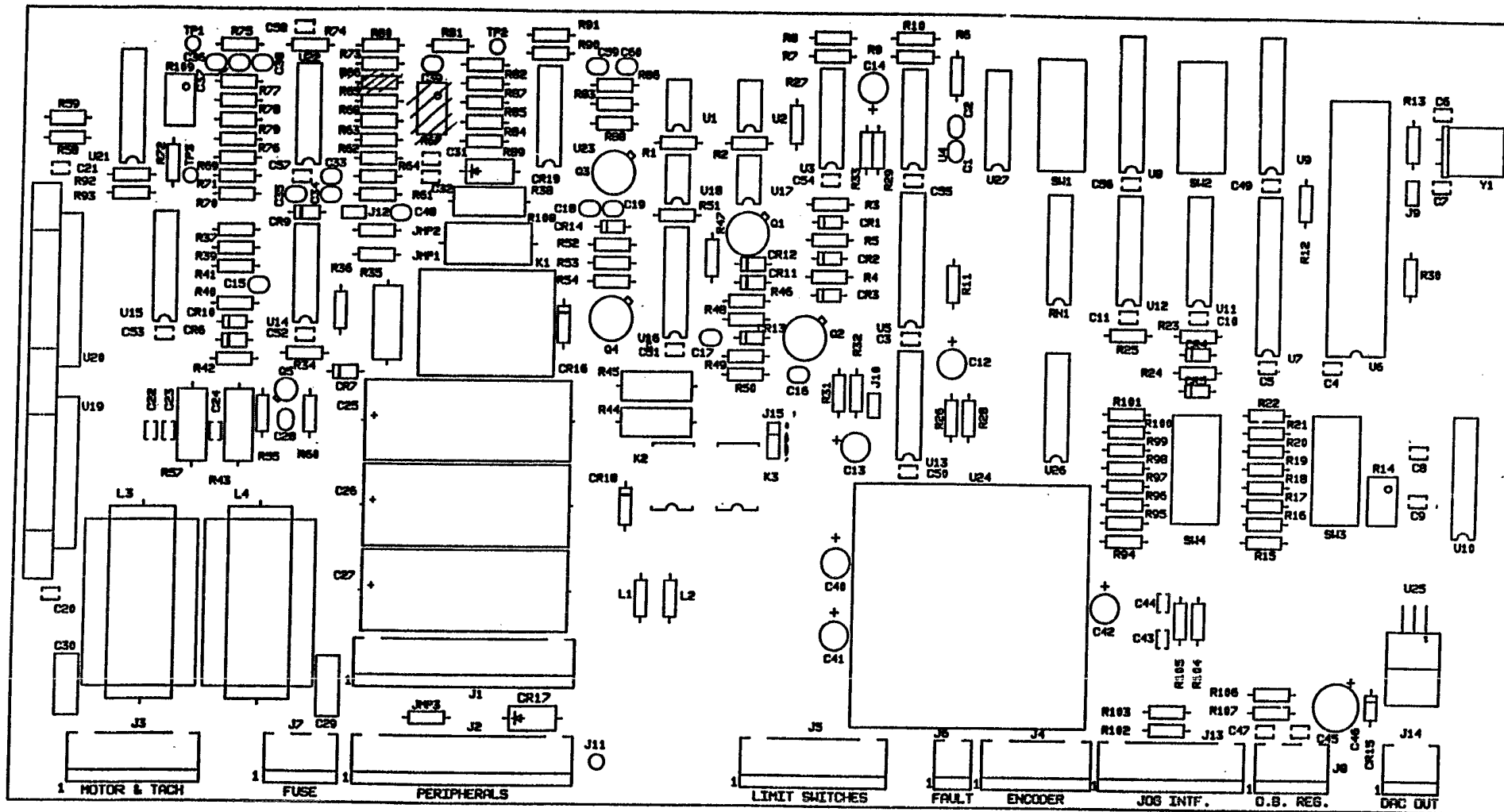


6	6	6	6	110-0129-007	SPACER, .266 ID, .5 OD, 1/4" LG	19
6	6	6	6	421-0001-032	STANDOFF, PCB MOUNT PLASTIC	18
2"	2"	2"	2"	406-6481-002	HEATSHRINK, 1/8"	17
2	2	2	2	406-1021-025	WASHER, #4 NYLON SHOULDER	16
2	2	2	2	109-5008-007	PHMS, M3 X 12	15
REF	REF	REF	REF	702-0005-001	HEATSINK COMPOUND	14
1	1	1	1	420-0002-007	HEATSINK, TO-3	13
2	2	2	2	117-5003-001	HEXNUT, M3	12
3	3	3	3	110-0062-001	LOCKWASHER, #4 INT TOOTH	11
1	1	1	1	406-1021-015	INSULATOR, TO-3 MYLAR	10
1	1	1	1	406-1021-018	COVER, IC INSULATING	9
1	1	1	1	417-0003-019	LM338K REGULATOR	8
1	1	1	1	423-0124-001	HARNESS, MOSFET DRIVE REGULATOR	7
1	-	-	-	415-0242-004	PCB, SMART GAUGE DRIVE II M-STOP	6
-	1	-	-	415-0242-003	PCB, SMART GAUGE DRIVE II DOWNACTING	5
-	-	1	-	415-0242-002	PCB, SMART GAUGE DRIVE II UPACTING	4
-	-	-	1	415-0242-001	PCB, SMART GAUGE DRIVE II GAUGE	3
1	1	1	1	801-0844-001	COVER, MOSFET GAUGE ENCLOSURE	2
-007	-006	-005	-004			1
M-STOP	DWN	2ND	GAUGE			

				SURFACE TREATMENT				EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE				HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.			
				DECIMAL				.0000				DESCRIPTION			
				.000				±.0150				DRAWN			
				.000				±.0050				S. HOGAN			
				.000				±.0005				DATE			
				ANGULAR ± .030°				BREAK ALL				11/89			
				SHARP EDGES				THIRD ANGLE				PROJECTION			
								UNIT OF MEAS				NONE			
								PC				D			
												001-1408			
												004			
												005			
												006			
												007			

CN
AB013

C 10812 ADDED ITEM 18
B 10693 ADD -007 ASSEMBLY
A 10808 ORIGINAL ISSUE



Switch S1 and S4 are not used for Smart Gauge Drives only

DIP Switch Settings for 415-0242-901 Rev. D or later

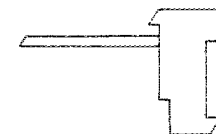
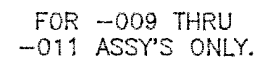
Switch S2 (divisor settings for Gauge I.D., Encoder and Lead Screw Compensation)

Switch Positions S2	1	2	3	4	5	6	7	8	I.D., Encoder and Screw Compensation
	OFF	ON	ON						Right Rear Inside
	ON	OFF	ON						Left Rear Inside
	OFF	OFF	ON						Right Rear Outside
	ON	ON	OFF						Left Rear Outside
				OFF					300 line encoder
				ON					500 Line encoder
					OFF	ON	ON		.001 compensation
					ON	OFF	ON		.002 compensation
					ON	ON	OFF		.004 compensation
								ON	+ compensation
								OFF	- compensation

Switch S3 (divisor settings for Gauge Drive Speeds)

Switch Positions S3	1	2	3	4	5	6	7	8	Range of pot adjustment
	OFF								6.2K - 26.2K
		OFF							20K - 40K
			OFF						30K - 50K
				OFF					43K - 63K
					OFF				51K - 71K
						OFF			62K - 82K
							OFF		68K - 88K
								OFF	82K - 102K

[illegible]

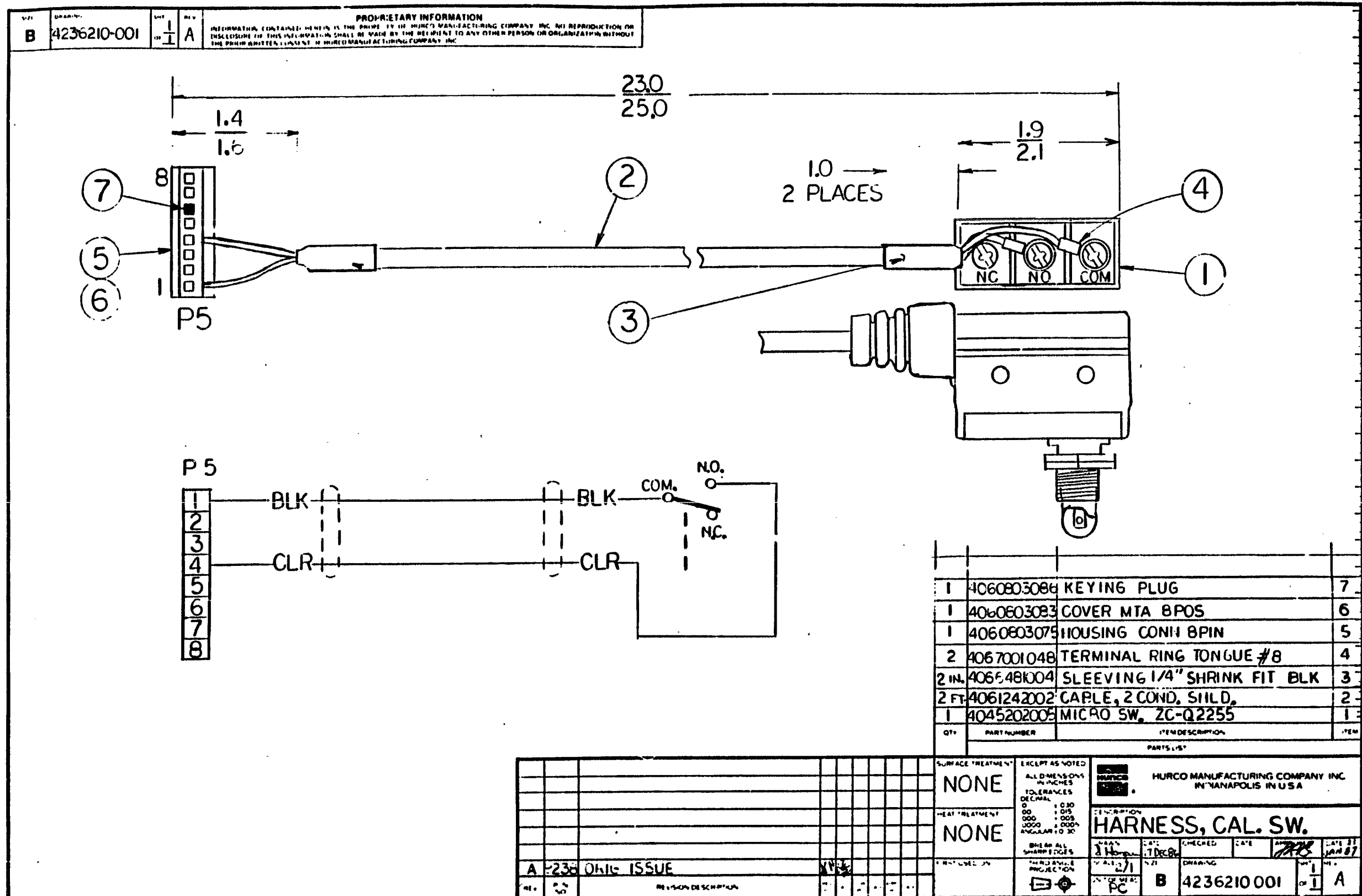


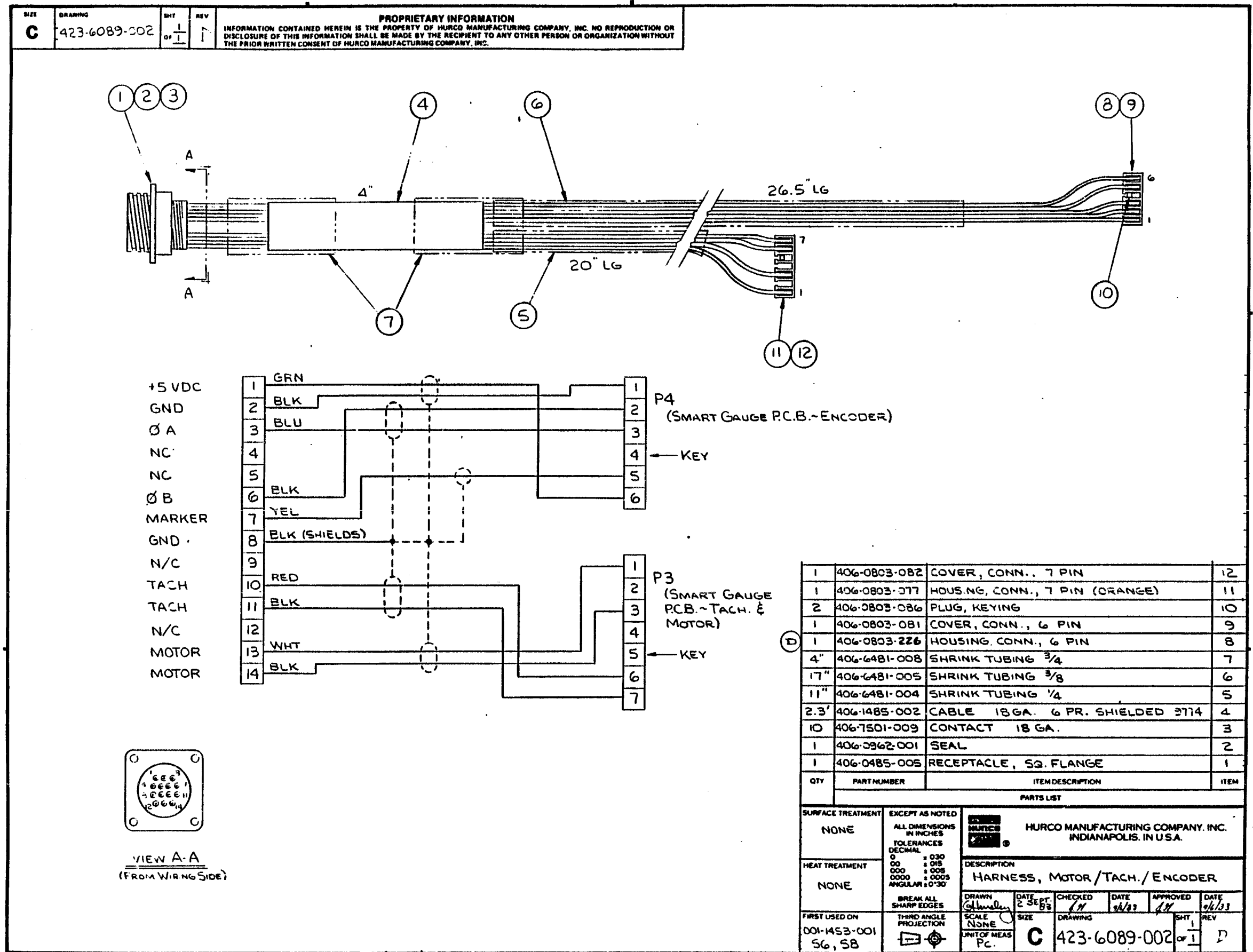
P/N	ASSEMBLY DESCRIPTION	LENGTH
-009	S6 & S8 INTERNAL	8"
-010	HYD 2AX	18"
-011	S7 INTERNAL	32"
-012	S8 INTERNAL DAISY	9"

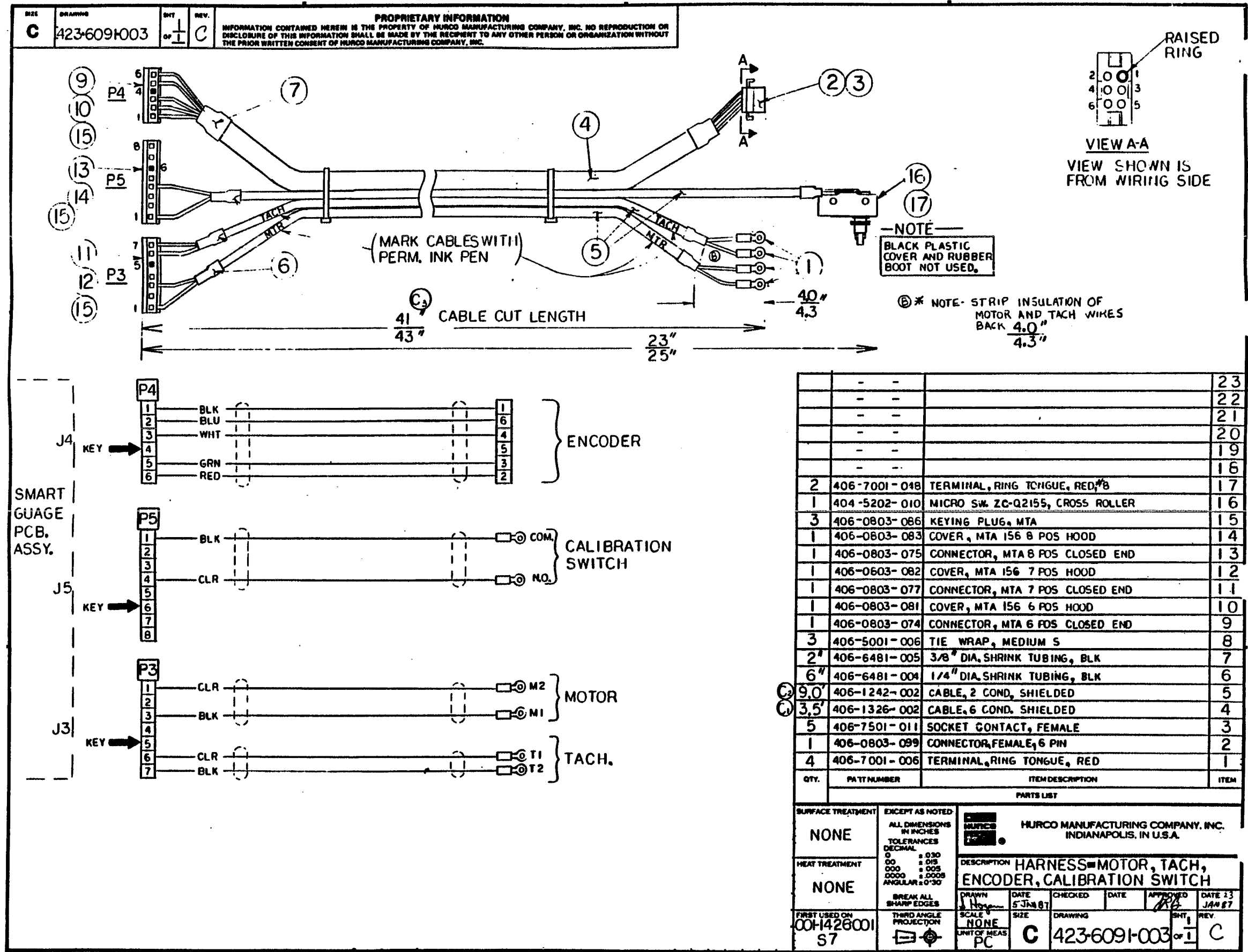
1. LABEL HARNESS WITH PART NUMBER AND REVISION.
2. LABEL CONNECTORS AS SHOWN.
3. USE ITEMS 11 AND 12 WHEN CONNECTING SHIELD AT BOTH ENDS.

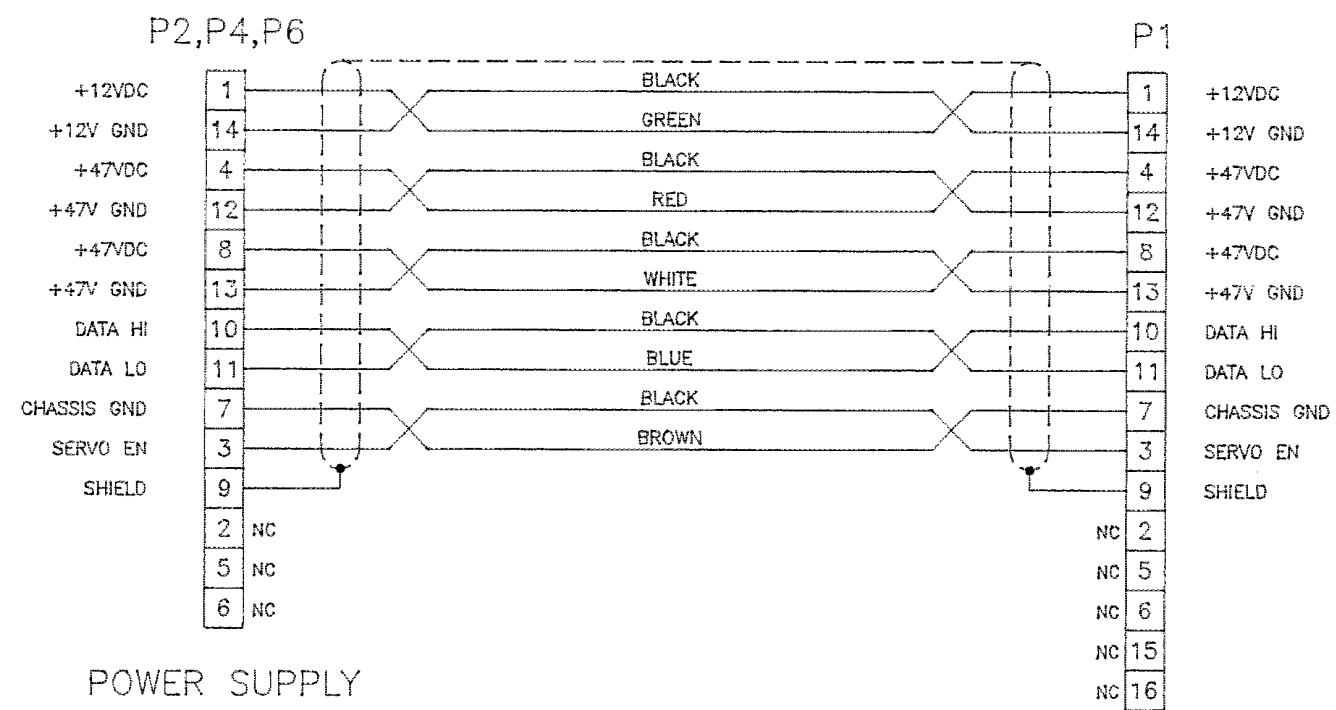
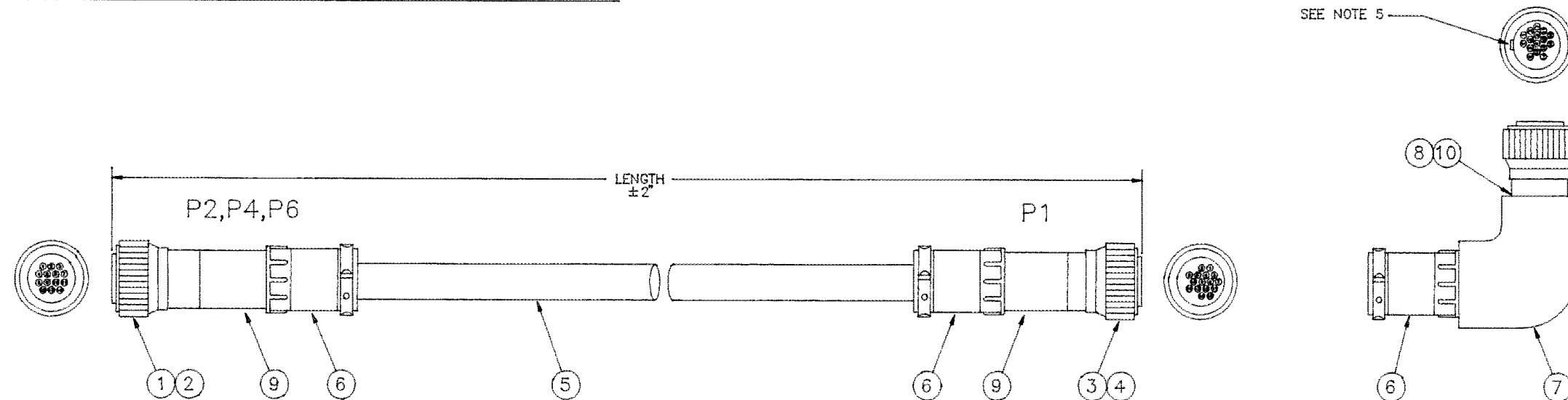
5"	5"	5"	5"	406-2005-020	WIRE, 18 AWG BLACK	12
2"	2"	2"	2"	406-6481-002	SHRINK TUBING, 1/8" BLACK	11
3"	3"	3"	3"	406-6481-010	SHRINK TUBING, 1/2" BLACK	10
1	1	1	1	406-0962-001	SEAL, CPC PERIPHERAL	9
1	1	1	1	406-0803-086	KEYING PLUG, MTA-156	8
1	1	1	1	406-0803-950	COVER, MTA-156 12-POS STRAIN RELIEF	7
1	1	1	1	406-0803-078	HOUSING, MTA-156 12-POS 18 AWG	6
9"	32"	18"	8"	406-1245-005	CABLE, 5 TWISTED PR, 18 AWG	5
11	---	---	---	406-7501-009	SOCKET CONTACT, 18-16 GA	4
1	---	---	---	406-0485-005	RECEPTACLE, REV SEX SQ FL 17-16	3
---	11	11	11	406-7501-010	PIN CONTACT, 18-16 GA	2
---	1	1	1	406-0485-004	RECEPTACLE, STD SEX SQ FL 17-16	1
QTY.	QTY.	QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
-012	-011	-010	-008		PARTS LIST	

[illegible]









NOTES:

1. MARK HARNESS WITH PART NUMBER AND REVISION.
2. LABEL CONNECTORS AS SHOWN.
3. ON -010 ASSY, 90 DEG ELBOW (ITEM 7) IS PLACED BETWEEN THE PLUG (ITEM 3) AND THE CABLE CLAMP (ITEM 6).
4. ON -011 ASSY, ITEMS 7, 8 AND 10 ARE USED AT BOTH ENDS.
5. LARGE KEYING TAB OF CONNECTOR TO BE POSITIONED AS SHOWN.
6. USE ITEMS 11 AND 12 WHEN CONNECTING SHIELD AT BOTH ENDS.

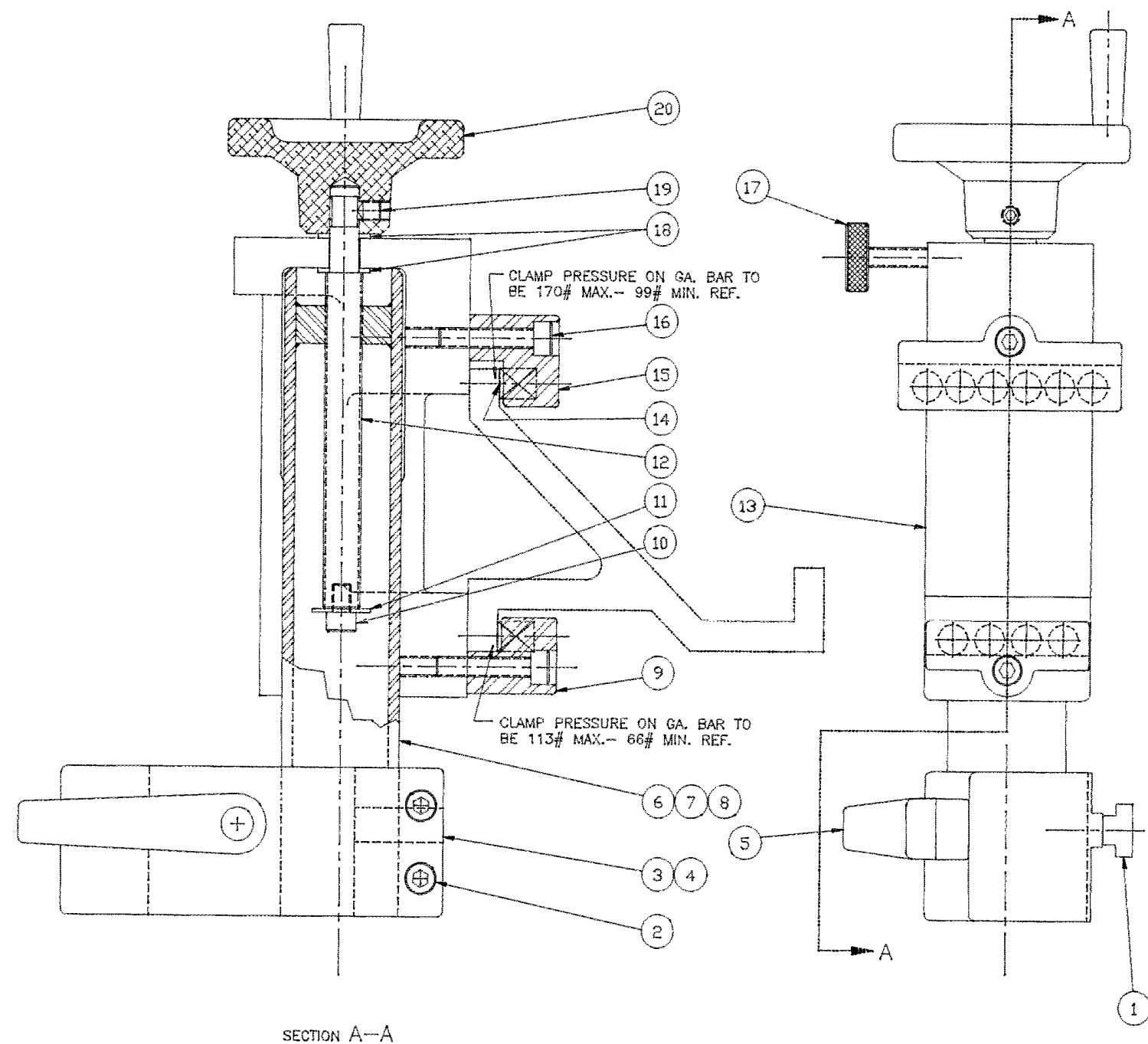
2"	2"	2"	2"	406-6481-002	SHRINK TUBING, 1/8" BLACK	12
4"	4"	4"	4"	406-2005-020	WIRE, 18 AWG BLACK	11
---	---	2	1	406-0481-008	INSERT, THREADED	10
2	2	---	1	406-0964-001	BACKSHELL EXTENDER, PVC SIZE 17	9
---	---	REF	REF	334-0001-022	PVC CEMENT	8
---	---	2	1	406-0481-007	PVC ELBOW, 90 DEG	7
2	2	2	2	406-7505-003	CABLE CLAMP, CPC 17 SERIES	6
3'	7'	20'	18'	406-1245-005	CABLE, 5 TWISTED PAIR, 18 AWG	5
11	11	11	11	406-7501-009	SOCKET CONTACTS, 18-16 GA	4
1	1	1	1	406-0481-003	PLUG, STD SEX 17-16	3
11	11	11	11	406-7501-010	PIN CONTACTS, 18-16 GA	2
1	1	1	1	406-0481-002	PLUG, REV SEX 17-14	1
QTY. -013	QTY. -012	QTY. -011	QTY. -010	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST						

P/N	ASSEMBLY DESCRIPTION	LENGTH
-010	GAUGE CABLE	18'
-011	GAUGE CHAIN CABLE	20'
-012	UP-ACTING CABLE	7'
-013	CINCINNATI FM 2ND AXIS CABLE	3'

PERIPHERAL

A	12127	ORIGINAL RELEASE	O B	87	
REV	PAGE	REVISION DESCRIPTION	REV	DIRECTOR	DATE/PAGE/COUNT

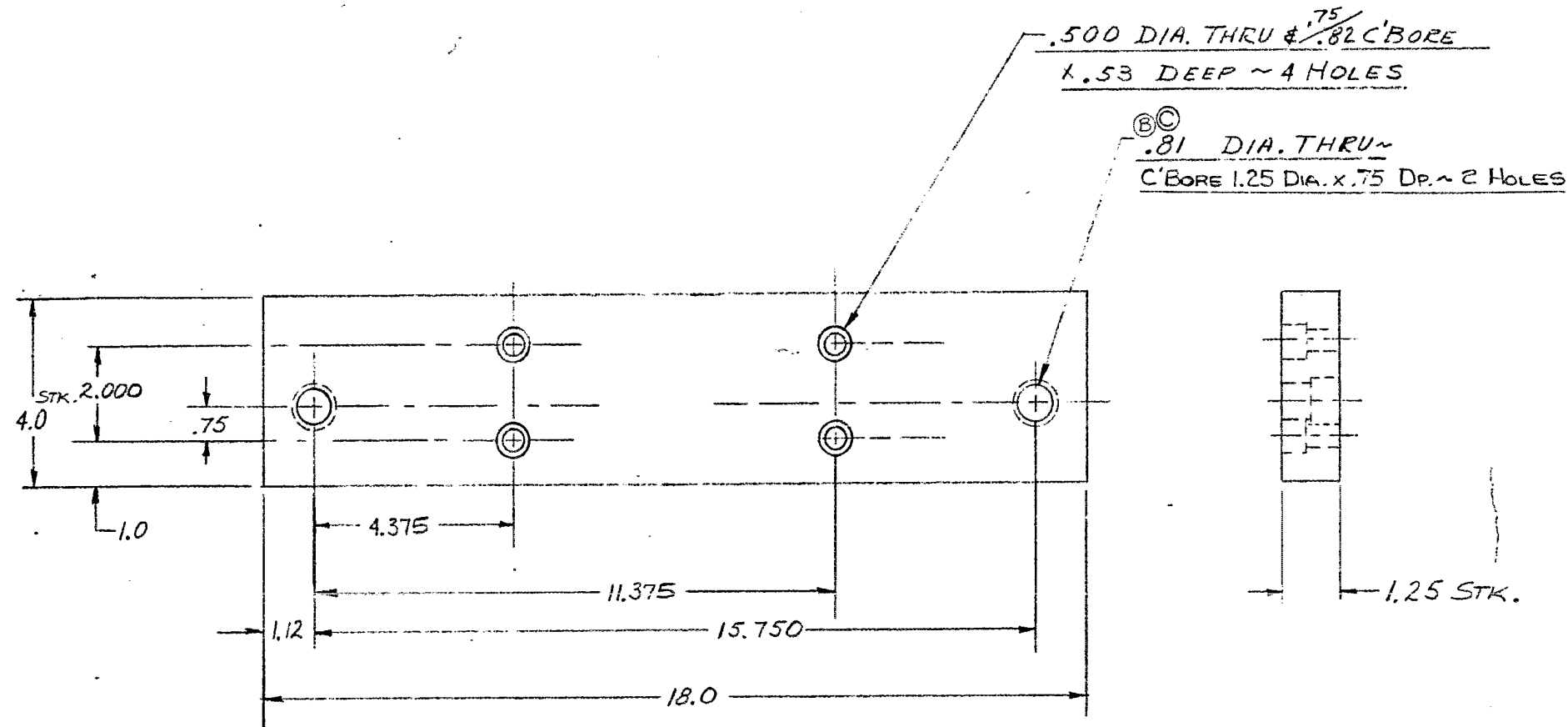
SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL		 HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
		.0 ±.0000 .00 ±.0100 .000 ±.0005 .0000 ±.0000 ANGULAR ± .034° INTERNAL SHARP EDGES		DESCRIPTION	
HEAT TREATMENT				HARNESS, EXTERIOR PERIPHERAL	
FIRST USED ON		DRAWN DAB	DATE 31MAR92	CHECKED DATE APPROVED DATE 	REV.
ABS C W/188 		SCALE NONE UNIT OF MEAS IN PC	SIZE D	DRAWING 423-0057	SHT. OF 1 -010 THRU -013

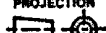


NOTE:
 (1) 001 & 002 ARE 11" VERTICAL ADJUST TUBES
 003 & 004 ARE 18" VERTICAL ADJUST TUBES
 005 & 006 ARE 24" VERTICAL ADJUST TUBES

1	1	1	1	1	1	813-0124-001	HANDWHEEL	20
2	2	2	2	2	2	103-5165-021	SHCS, M8 X 1.25 P X 10 LG CONE PT.	19
2	2	2	2	2	2	211-1202-008	THRUST RACE-TORRINGTON TRB-815	18
1	1	1	1	1	1	804-0821-007	CLAMP, BALL BEARING SWIVEL PAD	17
2	2	2	2	2	2	101-5010-010	SHCS, M8 X 1.25 P X 40 LG	16
1	1	1	1	1	1	801-0788-002	BAR, UPPER CLAMP	15
10	10	10	10	10	10	605-0071-003	SPRING, COMPRESSION	14
1	1	1	1	1	1	801-0789-001	BRACKET, GAUGE BAR	13
1	1	1	1	1	1	801-0639-002	SCREW, ADJUSTING	12
1	1	1	1	1	1	110-5001-005	WASHER, FLAT M8	11
1	1	1	1	1	1	101-5010-002	SHCS, M8 X 1.25 P X 12 LG	10
1	1	1	1	1	1	801-0788-001	BAR, LOWER CLAMP	9
1	1	0	0	0	0	901-0082-003	TUBE, VERTICAL ADJUST 24"	8
0	0	1	1	0	0	901-0082-002	TUBE, VERTICAL ADJUST 18"	7
0	0	0	0	1	1	901-0082-001	TUBE, VERTICAL ADJUST 11"	6
1	1	1	1	1	1	803-0521-006	HANDLE, ADJUST M10 X 50 LG	5
1	0	1	0	1	0	801-0642-004	BRACKET, HORIZONTAL, RIGHT	4
0	1	0	1	0	1	801-0642-003	BRACKET, HORIZONTAL, LEFT	3
2	2	2	2	2	2	101-5010-007	SHCS, M8 X 1.25 P X 25 LG	2
1	1	1	1	1	1	801-0660-001	T-NUT	1
QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
-006	-005	-004	-003	-002	-001			

SURFACE TREATMENT EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .000 .0000 .001 .0005 .002 .0010 .003 .0015 .004 .0020 .005 .0025 .006 .0030 .007 .0035 .008 .0040 .009 .0045 .010 .0050 .011 .0055 .012 .0060 .013 .0065 .014 .0070 .015 .0075 .016 .0080 .017 .0085 .018 .0090 .019 .0095 .020 .0100 .021 .0105 .022 .0110 .023 .0115 .024 .0120 .025 .0125 .026 .0130 .027 .0135 .028 .0140 .029 .0145 .030 .0150 .031 .0155 .032 .0160 .033 .0165 .034 .0170 .035 .0175 .036 .0180 .037 .0185 .038 .0190 .039 .0195 .040 .0200 .041 .0205 .042 .0210 .043 .0215 .044 .0220 .045 .0225 .046 .0230 .047 .0235 .048 .0240 .049 .0245 .050 .0250 .051 .0255 .052 .0260 .053 .0265 .054 .0270 .055 .0275 .056 .0280 .057 .0285 .058 .0290 .059 .0295 .060 .0300 .061 .0305 .062 .0310 .063 .0315 .064 .0320 .065 .0325 .066 .0330 .067 .0335 .068 .0340 .069 .0345 .070 .0350 .071 .0355 .072 .0360 .073 .0365 .074 .0370 .075 .0375 .076 .0380 .077 .0385 .078 .0390 .079 .0395 .080 .0400 .081 .0405 .082 .0410 .083 .0415 .084 .0420 .085 .0425 .086 .0430 .087 .0435 .088 .0440 .089 .0445 .090 .0450 .091 .0455 .092 .0460 .093 .0465 .094 .0470 .095 .0475 .096 .0480 .097 .0485 .098 .0490 .099 .0495 .100 .0500 .101 .0505 .102 .0510 .103 .0515 .104 .0520 .105 .0525 .106 .0530 .107 .0535 .108 .0540 .109 .0545 .110 .0550 .111 .0555 .112 .0560 .113 .0565 .114 .0570 .115 .0575 .116 .0580 .117 .0585 .118 .0590 .119 .0595 .120 .0600 .121 .0605 .122 .0610 .123 .0615 .124 .0620 .125 .0625 .126 .0630 .127 .0635 .128 .0640 .129 .0645 .130 .0650 .131 .0655 .132 .0660 .133 .0665 .134 .0670 .135 .0675 .136 .0680 .137 .0685 .138 .0690 .139 .0695 .140 .0700 .141 .0705 .142 .0710 .143 .0715 .144 .0720 .145 .0725 .146 .0730 .147 .0735 .148 .0740 .149 .0745 .150 .0750 .151 .0755 .152 .0760 .153 .0765 .154 .0770 .155 .0775 .156 .0780 .157 .0785 .158 .0790 .159 .0795 .160 .0800 .161 .0805 .162 .0810 .163 .0815 .164 .0820 .165 .0825 .166 .0830 .167 .0835 .168 .0840 .169 .0845 .170 .0850 .171 .0855 .172 .0860 .173 .0865 .174 .0870 .175 .0875 .176 .0880 .177 .0885 .178 .0890 .179 .0895 .180 .0900 .181 .0905 .182 .0910 .183 .0915 .184 .0920 .185 .0925 .186 .0930 .187 .0935 .188 .0940 .189 .0945 .190 .0950 .191 .0955 .192 .0960 .193 .0965 .194 .0970 .195 .0975 .196 .0980 .197 .0985 .198 .0990 .199 .0995 .200 .1000 .201 .1005 .202 .1010 .203 .1015 .204 .1020 .205 .1025 .206 .1030 .207 .1035 .208 .1040 .209 .1045 .210 .1050 .211 .1055 .212 .1060 .213 .1065 .214 .1070 .215 .1075 .216 .1080 .217 .1085 .218 .1090 .219 .1095 .220 .1100 .221 .1105 .222 .1110 .223 .1115 .224 .1120 .225 .1125 .226 .1130 .227 .1135 .228 .1140 .229 .1145 .230 .1150 .231 .1155 .232 .1160 .233 .1165 .234 .1170 .235 .1175 .236 .1180 .237 .1185 .238 .1190 .239 .1195 .240 .1200 .241 .1205 .242 .1210 .243 .1215 .244 .1220 .245 .1225 .246 .1230 .247 .1235 .248 .1240 .249 .1245 .250 .1250 .251 .1255 .252 .1260 .253 .1265 .254 .1270 .255 .1275 .256 .1280 .257 .1285 .258 .1290 .259 .1295 .260 .1300 .261 .1305 .262 .1310 .263 .1315 .264 .1320 .265 .1325 .266 .1330 .267 .1335 .268 .1340 .269 .1345 .270 .1350 .271 .1355 .272 .1360 .273 .1365 .274 .1370 .275 .1375 .276 .1380 .277 .1385 .278 .1390 .279 .1395 .280 .1400 .281 .1405 .282 .1410 .283 .1415 .284 .1420 .285 .1425 .286 .1430 .287 .1435 .288 .1440 .289 .1445 .290 .1450 .291 .1455 .292 .1460 .293 .1465 .294 .1470 .295 .1475 .296 .1480 .297 .1485 .298 .1490 .299 .1495 .300 .1500 .301 .1505 .302 .1510 .303 .1515 .304 .1520 .305 .1525 .306 .1530 .307 .1535 .308 .1540 .309 .1545 .310 .1550 .311 .1555 .312 .1560 .313 .1565 .314 .1570 .315 .1575 .316 .1580 .317 .1585 .318 .1590 .319 .1595 .320 .1600 .321 .1605 .322 .1610 .323 .1615 .324 .1620 .325 .1625 .326 .1630 .327 .1635 .328 .1640 .329 .1645 .330 .1650 .331 .1655 .332 .1660 .333 .1665 .334 .1670 .335 .1675 .336 .1680 .337 .1685 .338 .1690 .339 .1695 .340 .1700 .341 .1705 .342 .1710 .343 .1715 .344 .1720 .345 .1725 .346 .1730 .347 .1735 .348 .1740 .349 .1745 .350 .1750 .351 .1755 .352 .1760 .353 .1765 .354 .1770 .355 .1775 .356 .1780 .357 .1785 .358 .1790 .359 .1795 .360 .1800 .361 .1805 .362 .1810 .363 .1815 .364 .1820 .365 .1825 .366 .1830 .367 .1835 .368 .1840 .369 .1845 .370 .1850 .371 .1855 .372 .1860 .373 .1865 .374 .1870 .375 .1875 .376 .1880 .377 .1885 .378 .1890 .379 .1895 .380 .1900 .381 .1905 .382 .1910 .383 .1915 .384 .1920 .385 .1925 .386 .1930 .387 .1935 .388 .1940 .389 .1945 .390 .1950 .391 .1955 .392 .1960 .393 .1965 .394 .1970 .395 .1975 .396 .1980 .397 .1985 .398 .1990 .399 .1995 .400 .2000 .401 .2005 .402 .2010 .403 .2015 .404 .2020 .405 .2025 .406 .2030 .407 .2035 .408 .2040 .409 .2045 .410 .2050 .411 .2055 .412 .2060 .413 .2065 .414 .2070 .415 .2075 .416 .2080 .417 .2085 .418 .2090 .419 .2095 .420 .2100 .421 .2105 .422 .2110 .423 .2115 .424 .2120 .425 .2125 .426 .2130 .427 .2135 .428 .2140 .429 .2145 .430 .2150 .431 .2155 .432 .2160 .433 .2165 .434 .2170 .435 .2175 .436 .2180 .437 .2185 .438 .2190 .439 .2195 .440 .2200 .441 .2205 .442 .2210 .443 .2215 .444 .2220 .445 .2225 .446 .2230 .447 .2235 .448 .2240 .449 .2245 .450 .2250 .451 .2255 .452 .2260 .453 .2265 .454 .2270 .455 .2275 .456 .2280 .457 .2285 .458 .2290 .459 .2295 .460 .2300 .461 .2305 .462 .2310 .463 .2315 .464 .2320 .465 .2325 .466 .2330 .467 .2335 .468 .2340 .469 .2345 .470 .2350 .471 .2355 .472 .2360 .473 .2365 .474 .2370 .475 .2375 .476 .2380 .477 .2385 .478 .2390 .479 .2395 .480 .2400 .481 .2405 .482 .2410 .483 .2415 .484 .2420 .485 .2425 .486 .2430 .487 .2435 .488 .2440 .489 .2445 .490 .2450 .491 .2455 .492 .2460 .493 .2465 .494 .2470 .495 .2475 .496 .2480 .497 .2485 .498 .2490 .499 .2495 .500 .2500 .501 .2505 .502 .2510 .503 .2515 .504 .2520 .505 .2525 .506 .2530 .507 .2535 .508 .2540 .509 .2545 .510 .2550 .511 .2555 .512 .2560 .513 .2565 .514 .2570 .515 .2575 .516 .2580 .517 .2585 .518 .2590 .519 .2595 .520 .2600 .521 .2605 .522 .2610 .523 .2615 .524 .2620 .525 .2625 .526 .2630 .527 .2635 .528 .2640 .529 .2645 .530 .2650 .531 .2655 .532 .2660 .533 .2665 .534 .2670 .535 .2675 .536 .2680 .537 .2685 .538 .2690 .539 .2695 .540 .2700 .541 .2705 .542 .2710 .543 .2715 .544 .2720 .545 .2725 .546 .2730 .547 .2735 .548 .2740 .549 .2745 .550 .2750 .551 .2755 .552 .2760 .553 .2765 .554 .2770 .555 .2775 .556 .2780 .557 .2785 .558 .2790 .559 .2795 .560 .2800 .561 .2805 .562 .2810 .563 .2815 .564 .2820 .565 .2825 .566 .2830 .567 .2835 .568 .2840 .569 .2845 .570 .2850 .571 .2855 .572 .2860 .573 .2865 .574 .2870 .575 .2875 .576 .2880 .577 .2885 .578 .2890 .579 .2895 .580 .2900 .581 .2905 .582 .2910 .583 .2915 .584 .2920 .585 .2925 .586 .2930 .587 .2935 .588 .2940 .589 .2945 .590 .2950 .591 .2955 .592 .2960 .593 .2965 .594 .2970 .595 .2975 .596 .2980 .597 .2985 .598 .2990 .599 .2995 .600 .3000 .601 .3005 .602 .3010 .603 .3015 .604 .3020 .605 .3025 .606 .3030 .607 .3035 .608 .3040 .609 .3045 .610 .3050 .611 .3055 .612 .3060 .613 .3065 .614 .3070 .615 .3075 .616 .3080 .617 .3085 .618 .3090 .619 .3095 .620 .3100 .621 .3105 .622 .3110 .623 .3115 .624 .3120 .625 .3125 .626 .3130 .627 .3135 .628 .3140 .629 .3145 .630 .3150 .631 .3155 .632 .3160 .633 .3165 .634 .3170 .635 .3175 .636 .3180 .637 .3185 .638 .3190 .639 .3195 .640 .3200 .641 .3205 .642 .3210 .643 .3215 .644 .3220 .645 .3225 .646 .3230 .647 .3235 .648 .3240 .649 .3245 .650 .3250 .651 .3255 .652 .3260 .653 .3265 .654 .3270 .655 .3275 .656 .3280 .657 .3285 .658 .3290 .659 .3295 .660 .3300 .661 .3305 .662 .3310 .663 .3315 .664 .3320 .665 .3325 .666 .3330 .667 .3335 .668 .3340 .669 .3345 .670 .3350 .671 .3355 .672 .3360 .673 .3365 .674 .3370 .675 .3375 .676 .3380 .677 .3385 .678 .3390 .679 .3395 .680 .3400 .681 .3405 .682 .3410 .683 .3415 .684 .3420 .685 .3425 .686 .3430 .687 .3435 .688 .3440 .689 .3445 .690 .3450 .691 .3455 .692 .3460 .693 .3465 .694 .3470 .695 .3475 .696 .3480 .697 .3485 .698 .3490 .699 .3495 .700 .3500 .701 .3505 .702 .3510 .703 .3515 .704 .3520 .705 .3525 .706 .3530 .707 .3535 .708 .3540 .709 .3545 .710 .3550 .711 .3555 .712 .3560 .713 .3565 .714 .3570 .715 .3575 .716 .3580 .717 .3585 .718 .3590 .719 .3595 .720 .3600 .721 .3605 .722 .3610 .723 .3615 .724 .3620 .725 .3625 .726 .3630 .727 .3635 .728 .3640 .729 .3645 .730 .3650 .731 .3655 .732 .3660 .733 .3665 .734 .3670 .735 .3675 .736 .3680 .737 .3685 .738 .3690 .739 .3695 .740 .3700 .741 .3705 .742 .3710 .743 .3715 .744 .3720 .745 .3725 .746 .3730 .747 .3735 .748 .3740 .749 .3745 .750 .3750 .751 .3755 .752 .3760 .753 .3765 .754 .3770 .755 .3775 .756 .3780 .757 .3785 .758 .3790 .759 .3795 .760 .3800 .761 .3805 .762 .3810 .763 .3815 .764 .3820 .765 .3825 .766 .3830 .767 .3835 .768 .3840 .7
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18.0										306-0020-204										1 1/4 X 4 HR STEEL										1									
REQD.										PART NO.										DESCRIPTION										ITEM									
BILL OF MATERIAL																																							
EXCEPT AS NOTED:																				HURCO MANUFACTURING COMPANY, INC. Indianapolis, Indiana																			
TOLERANCES DECIMAL										DESCRIPTION																													
.0 ± .030										PLATE GAUGE MTG.																													
.00 ± .015										DRAWN 1/8																													
.000 ± .005										DATE 8/2/83																													
.0000 ± .0005										CHECKED 																													
ANGULAR ± 0°30'										DATE 8/2/83																													
BREAK ALL SHARP EDGES										APPROVED 																													
THIRD ANGLE PROJECTION										SCALE 1/2																													
										SIZE C																													
										DRAWING 801-0709-001																													
										UNIT OF MEAS. PC																													
										INT. 1																													
										REV. E																													
REV.										P.L.N. NO.										REVISION DESCRIPTION										REV BY									
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SURFACE TREATMENT									
BLACK OXIDE									
HEAT TREATMENT									
NONE									
ASSEMBLY NO.									
C	11079	1.50 DIM. ADDED	JLW	11-15 90		WEH	11-16 90		
B	11053	1) ADD (2).75-10 TAPPED H/LS 2) WAS BLACK PAINT	JLW	10-16 90		WEH	10-31 90		
A	7147	Original Issue		10-17 90					
REV.	P.I.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE	OF

26.0
306-0020-204
1 1/4 X 4 H.R. STEEL

REQD.

PART NO.

DESCRIPTION

ITEM

EXCEPT AS NOTED:

TOLERANCES DECIMAL

.0 ± .030

.00 ± .015

.000 ± .005

.0000 ± .0005

ANGULAR ± 30'

BREAK ALL SHARP EDGES

THIRD ANGLE PROJECTION

BILL OF MATERIAL

HURCO MANUFACTURING COMPANY, INC.

Indianapolis, Indiana

DESCRIPTION

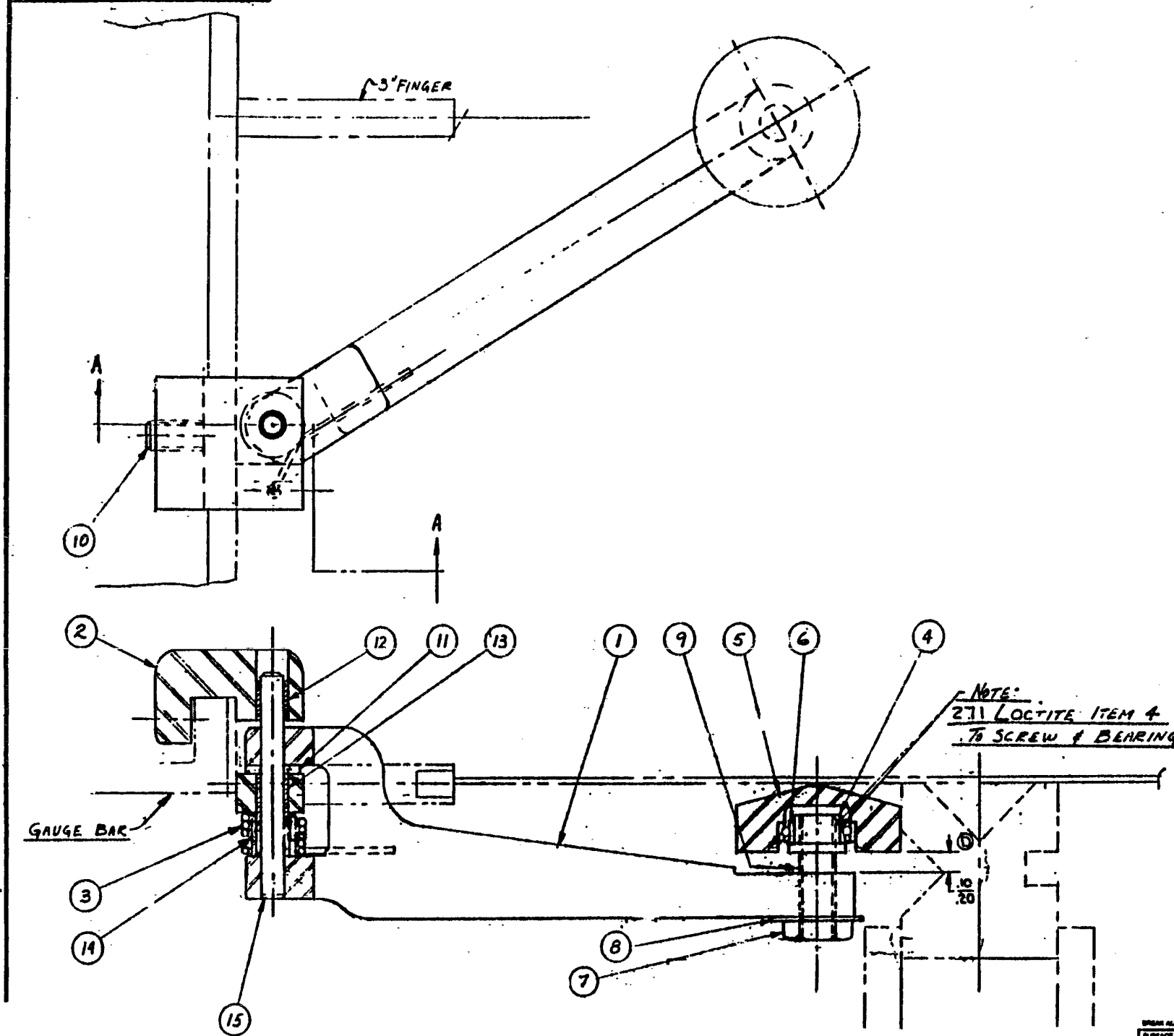
PLATE, GAUGE MTG.

DRAWN 18	DATE 83 2/28	CHECKED [Signature]	DATE 83 2/28	APPROVED [Signature]	DATE 83 2/28
SCALE 1/2	SHEET 1	DRAWING	REV.	REV.	REV.

UNIT OF MEAS. C

801-0709-003

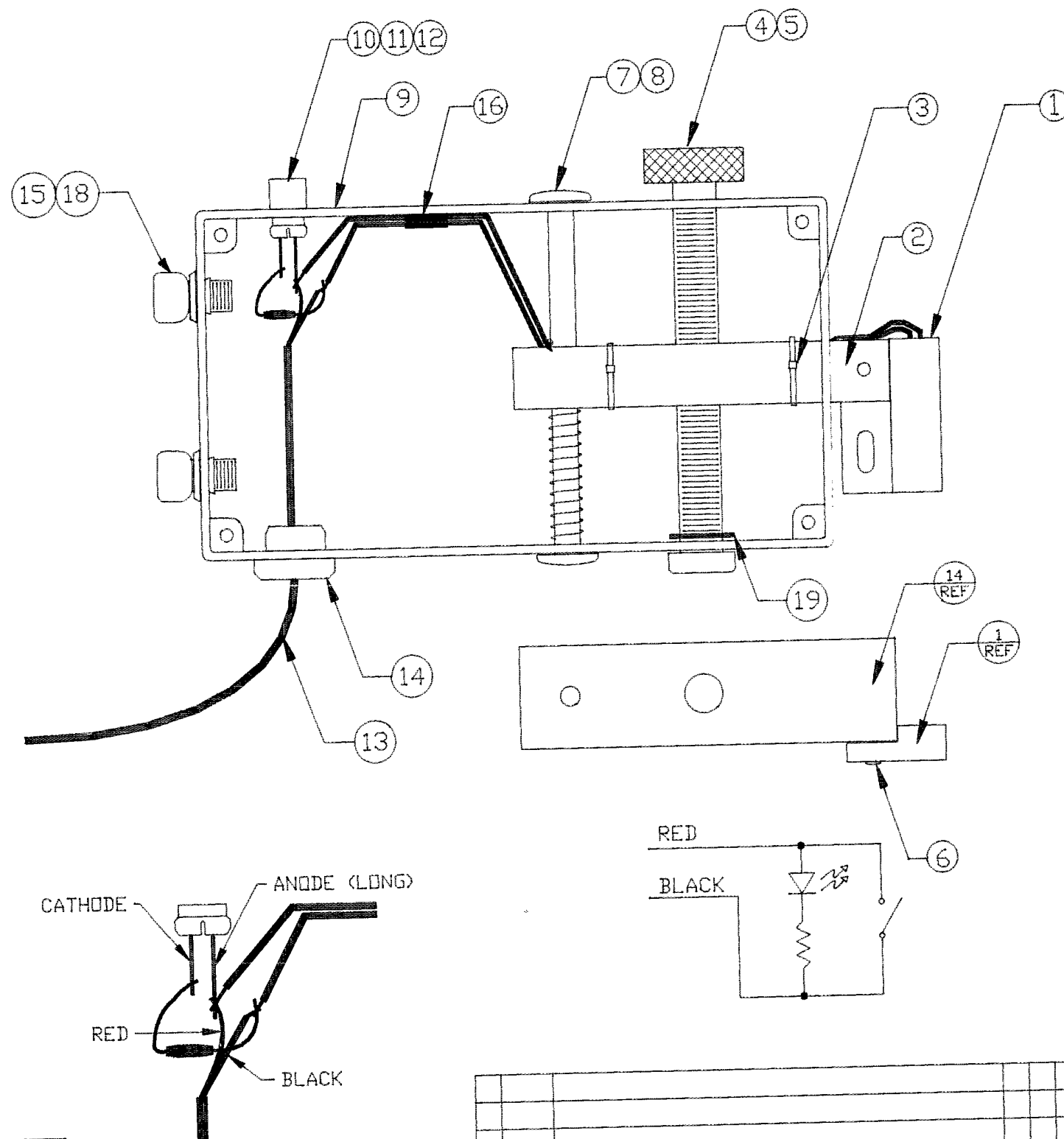
C 001-1146-001



ITEM	PART #	DESCRIPTION	QTY.
15	112-6001-003	GROOVE PIN .312 DIA X 3 LG	1
14	211-7026-001	OILITE AA-630-11	1
13	211-7016-001	OILITE AA-306-6	REF
12	211-7016-002	OILITE AA-306-7	REF
11	211-7203-002	OILITE TT-710-1	1
10	604-0821-001	VLIER SC-338 CLAMP	1
9	103-0008-036	1/2 - 15 X 1 1/4" S.S.S.	1
8	110-0002-005	1/2 SAE WASHER	1
7	117-0002-005	1/2 - 13 JAM-NUT	1
6	211-0015-009	BEARING-HRC-B538DD	1
5	801-0242-002	WHEEL 2 1/4" DIA.	1
4	801-0241-001	BEARING SHAFT	1
3	801-0240-001	SPRING	1
2	801-0238-001	SWING ARM	1

BREAK ALL SHARP EDGES		SURFACE TREATMENT	
NONE		NONE	
TOLERANCES		HURCO MANUFACTURING COMPANY, INC. Indianapolis, Indiana	
SHOWN AS NOTED UNLESS OTHERWISE SPECIFIED		STOCK SUPPORT	
DATE	BY	DATE	BY
1-28-70	G. B. Jones	1-28-70	G. B. Jones
SCALE	FULL	SCALE	FULL
ASSEMBLY NO.		ASSEMBLY NO.	

- NOTES:
- ITEM 7 INSERTED FROM TOP, SCREW IN BOTTOM.
 - ITEM 5 TURNED 3/4 ROTATION AFTER CONTACT WITH NYLON.
 - DRESS WIRES OF ITEM 1 SO FULL TRAVEL CAN BE ACHIEVED.
 - USE ITEM 17 FOR ASSY OF ITEMS 1, 11, 12 & 13.
 - LABEL ASSEMBLY WITH PART NUMBER ON TOP OF BOX.
 - PACK IN SEALED BUBBLE PACK BAG FOR PROTECTION DURING SHIPPING.

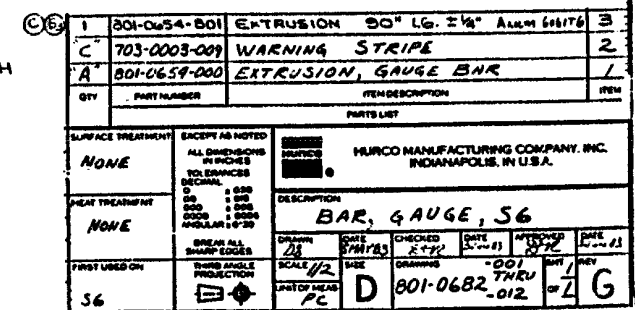


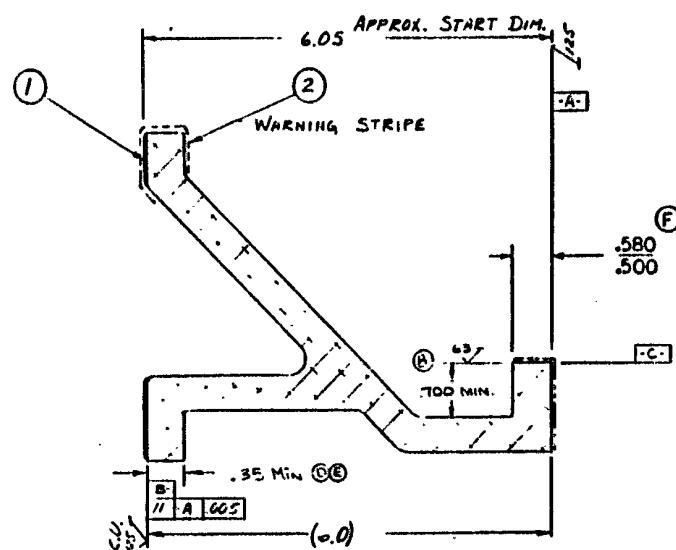
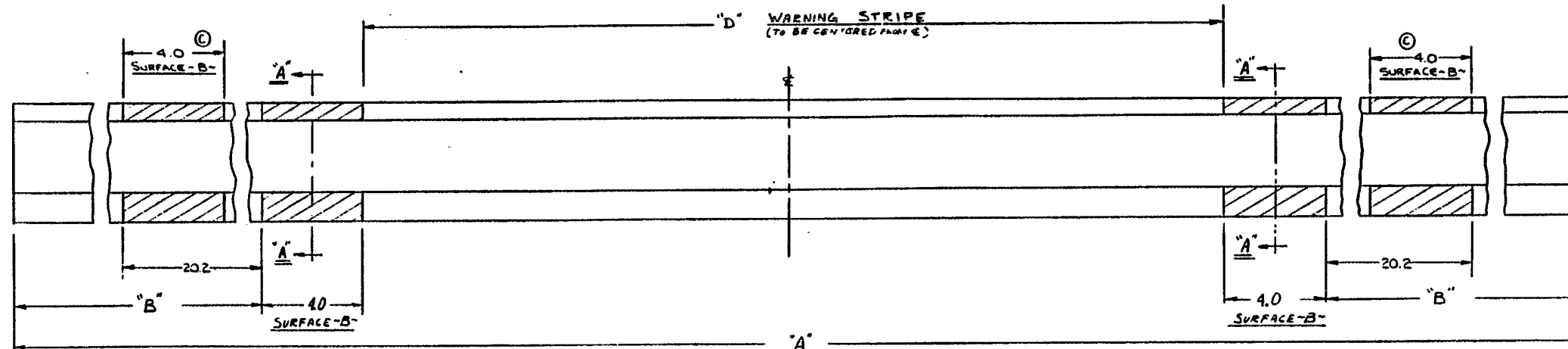
QTY.	PART NUMBER	ITEM DESCRIPTION	REF
1	418-5001-009	ACTUATOR, MAGNETIC	REF
1	408-7501-048	E-CLIP, RETAINER RING, 5/16"	19
2	117-1002-002	NUTSERT, M5	18
3"	406-6481-003	SHRINK WRAP, 3/16" BLACK	17
1	406-5001-023	CORD CLIP, ADHESIVE BACKED	16
2	604-0003-002	THUMB SCREW, 10-32 X 1/2"	15
1	406-0530-003	STRAIN RELIEF BUSHING	14
15'	406-1242-006	CABLE, 2 COND. 22 AWG	13
1	407-0035-297	RESISTOR, 1.21K 1/4W 1%	12
1	411-2001-033	LED, 1mA RED DIFFUSED, T1-3/4	11
1	411-3001-015	LENS, LED MOUNTING .25" MNT. HOLE	10
1	801-0855-003	ENCLOSURE, RETRACT ADJ. MOUNTING	9
1	605-0029-008	SPRING, 7/16" O.D. X 1-7/8" L, .035 WIRE DIA	8
1	421-0001-035	GUIDE POST, 3/16" X 2-1/2"	7
1	102-5001-003	FHSOS, M3 X 10	6
1	408-8501-013	NUT, ELASTIC LOCKING, 5/16"	5
1	604-0003-001	THUMB SCREW, 5/16" X 3"	4
2	406-5001-006	CABLE TIE	3
1	801-0855-004	BAR, RETRACT ADJUST	2
1	418-5001-008	SWITCH, MAGNETIC	1
PARTS LIST			
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM

SURFACE TREATMENT	EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± 0°30' BREAK ALL SHARP EDGES	HURCO HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.					
HEAT TREATMENT		DESCRIPTION ASSY, RETRACT @ PINCHPOINT					
FIRST USED ON	AB5C	DRAWN A.E.T.	DATE 17AUG92	CHECKED A.E.T.	DATE 04SEP92	APPROVED	DATE
		SCALE N/A	SIZE B	DRAWING 001-1529-003		SHT. 1 OF 1	REV.
		UNIT OF MEAS EA.					

CN
AB478

REV	P.I.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE	DF
A	12308	ORIGINAL ISSUE							



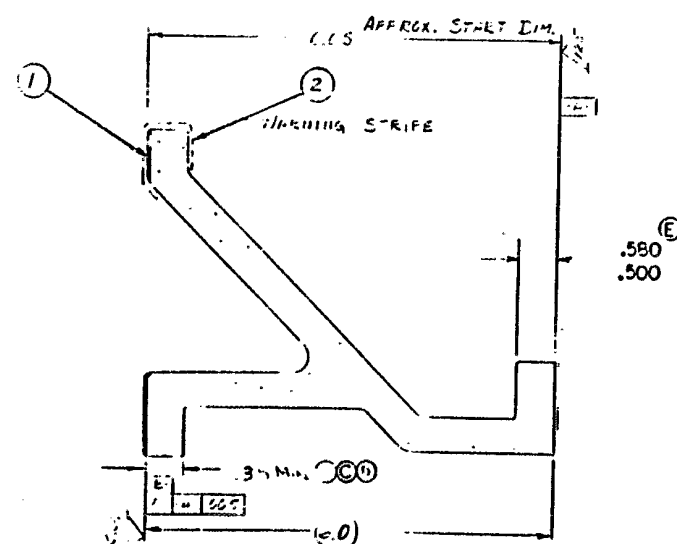
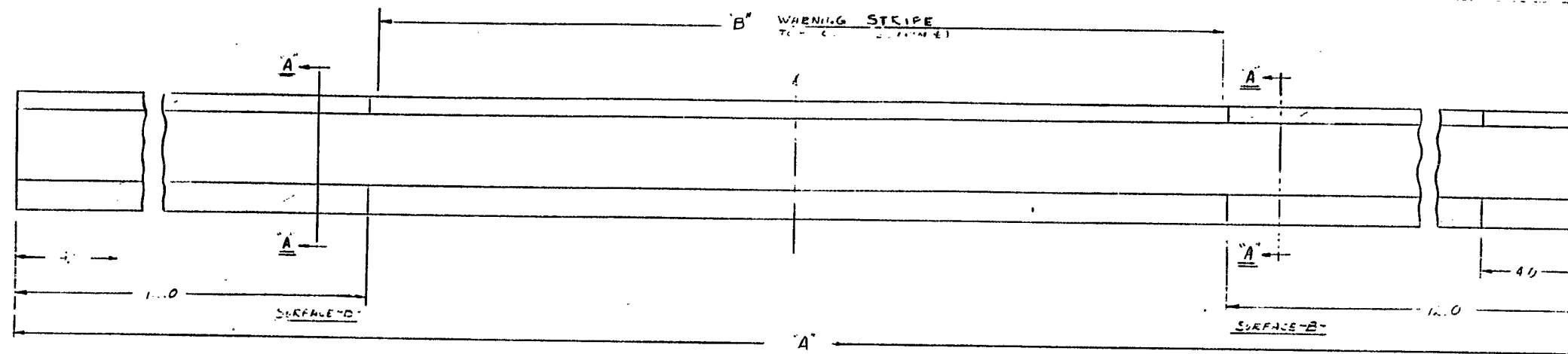


SECTION A-A
 SCALE 1/1

- NOTES:
- 1) WHEN MACHINING SURFACE-A, SHIM UNDER CLAMPS.
 - 2) SURFACE "A" STRAIGHT W/ .010 TOTAL.
 - 3) SURFACE "A" STRAIGHT W/ .001 PER FOOT.
 - 4) SURFACES "B" TO BE REGARDED SEPARATELY.
 - 5) (DIM. "C" IS GAUGE MOUNTING BETWEEN INBOARD BOLTS.) (THIS IS FOR REF. TO MANUAL ONLY.)
 - 6) WHEN GAUGE BAR IS CLAMPED AT SURFACE-B, SURFACE-A-TO BE PERPENDICULAR TO TABLE WITHIN .005.

SB GAUGE BAR	LENGTH "A"	"B"	"C" REF.	"D"	ITEMS
301-0683-001	90" (7-6)	24"	112 CM	34"	2.2
-002	96" (8-0)	24"	112 CM	34"	1.2
-003	102" (8-6)	24"	112 CM	44"	1.2
-004	108" (9-0)	24"	112 CM	52"	1.2
-005	114" (9-6)	24"	112 CM	52"	2.4
-006	120" (10-0)	24"	112 CM	62"	1.2
-007	126" (10-6)	24"	112 CM	62"	1.2
-008	132" (11-0)	24"	112 CM	76"	1.2
-009	138" (11-6)	24"	112 CM	76"	1.2
-010	144" (12-0)	24"	112 CM	76"	1.2
-011	150" (12-6)	24"	112 CM	76"	1.2
-012	156" (13-0)	24"	112 CM	92"	1.2
-013	162" (13-6)	24"	112 CM	92"	1.2
-014	168" (14-0)	24"	112 CM	92"	1.2
-015	174" (14-6)	24"	112 CM	92"	1.2
-016	180" (15-0)	24"	112 CM	108"	1.2
-017	186" (15-6)	24"	112 CM	108"	1.2
-018	192" (16-0)	24"	112 CM	108"	1.2
-019	198" (16-6)	24"	112 CM	108"	1.2
-020	204" (17-0)	24"	112 CM	108"	1.2
-021	210" (17-6)	24"	112 CM	108"	1.2

SURFACE TREATMENT		EXCEPT AS NOTED		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN, U.S.A.	
NONE		ALL DIMENSIONS IN INCHES TOLERANCES DECIMALS		DESCRIPTION BAR, GAUGE, SB	
HEAT TREATMENT		NONE		DRAWN DATE 11/2/83	
FIRST USED ON		NONE		CHECKED DATE 11/2/83	
SB		NONE		APPROVED DATE 11/2/83	
				SCALE 1/2	
				UNIT OF MEAS IN	
				D 301-0683-021	
				F	



- NOTES:
- 1) SURFACE A, SHIP UNDER CLIMB.
 - 2) SURFACE A STRAIGHT W/ .010 TOTAL.
 - 3) SURFACE A STRAIGHT W/ .001 PER FOOT.
 - 4) SURFACES B TO BE REGARDED SEPARATELY.
 - 5) (DIM. C) IS GAUGE MOUNTING BETWEEN INBOARD BOLTS.

SECTION A-A
SCALE 1/1

PARTS LIST				ITEM	
NO.	QTY	NO.	QTY	DESCRIPTION	
001	1	002	1	EXTRUSION, GAUGE BAR	1
003	1	004	1	EXTRUSION, 90 LONG	2
005	1	006	1	EXTRUSION, 114 LONG	3
007	1	008	1	WARNING STRIPE	4

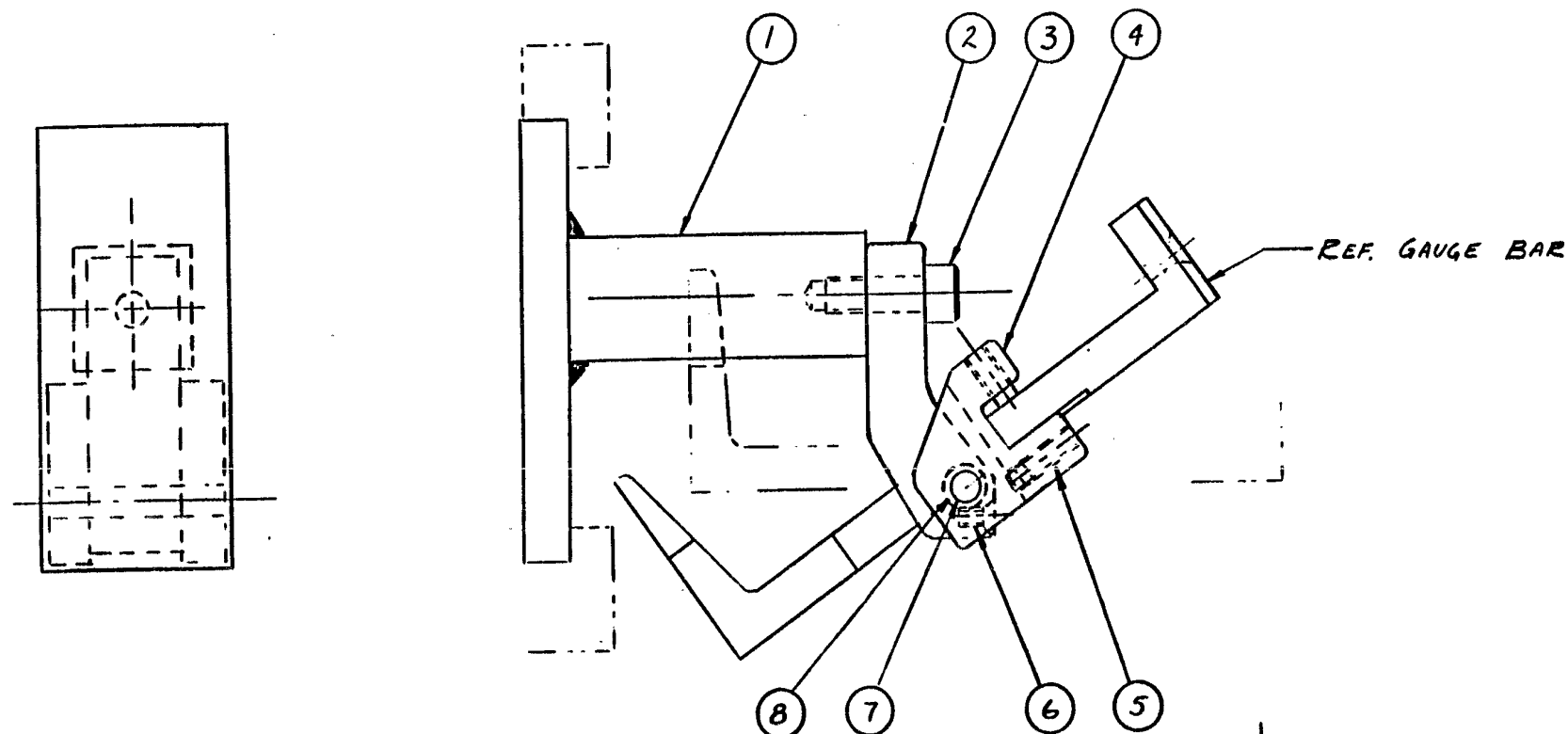
S8 GAUGE BAR	LENGTH A	STRIPE B
801-0684-001	90" (7'-6")	65"
" -002	96" (8'-0")	70"
" -003	102" (8'-6")	76"
" -004	108" (9'-0")	82"
" -005	114" (9'-6")	88"
" -006	120" (10'-0")	94"
" -007	126" (10'-6")	100"
" -008	132" (11'-0")	106"
" -009	138" (11'-6")	112"
" -010	144" (12'-0")	118"
" -011	150" (12'-6")	124"
" -012	156" (13'-0")	130"
" -013	162" (13'-6")	136"
" -014	168" (14'-0")	142"
" -015	174" (14'-6")	148"
" -016	180" (15'-0")	154"
" -017	186" (15'-6")	160"
" -018	192" (16'-0")	166"
" -019	198" (16'-6")	172"
" -020	204" (17'-0")	178"
" -021	210" (17'-6")	184"

SURFACE TREATMENT		EXCEPT AS NOTED	
NONE		ALL DIMENSIONS IN INCHES	
HEAT TREATMENT		TOLERANCES	
NONE		FRACTIONS	
FIRST USED ON		DECIMALS	
NONE		ANGULAR	
THIRD ANGLE PROJECTION		BASIC	
NONE		HURCO MANUFACTURING COMPANY INC.	
NONE		INDIANAPOLIS IN U.S.A.	
NONE		DESCRIPTION	
NONE		BAC, GAUGE, S8, VERTICAL	
NONE		DRAWN	
NONE		DATE	
NONE		CHECKED	
NONE		DATE	
NONE		APPROVED	
NONE		DATE	
NONE		SCALE	
NONE		D	
NONE		301-0184	
NONE		REV	
NONE		1	

SIZE C	DRAWING 001-1440-001	SHT 1	REV. C	PROPRIETARY INFORMATION INFORMATION CONTAINED HEREIN IS THE PROPERTY OF MURCO MANUFACTURING COMPANY, INC. NO REPRODUCTION OR DISCLOSURE OF THIS INFORMATION SHALL BE MADE BY THE RECIPIENT TO ANY OTHER PERSON OR ORGANIZATION WITHOUT THE PRIOR WRITTEN CONSENT OF MURCO MANUFACTURING COMPANY, INC.
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NOTE FOR GAUGE BAR.

- ① 1) S7 GAUGE CAN USE 5" CHANNEL FROM 48" TO 90" LONG - 001-1448-XXX.
- 2) S7 GAUGE WILL USE 6" CHANNEL FROM 96" TO 114" LONG - SEE DWG. 001-1442-XXX.
- 3) S8 GAUGE WILL USE SS PIN 013-1129-XXX AS IS FOR ANY LENGTH, 90" THRU 114".
- 4) S6 GAUGE WILL USE 5" CHANNEL TO 90" LONG SEE DWG 001-1448-XXX FOR 30" TO 90" LONG.



REF: ITEMS 2 THRU 8 SAME AS 001-1238-003

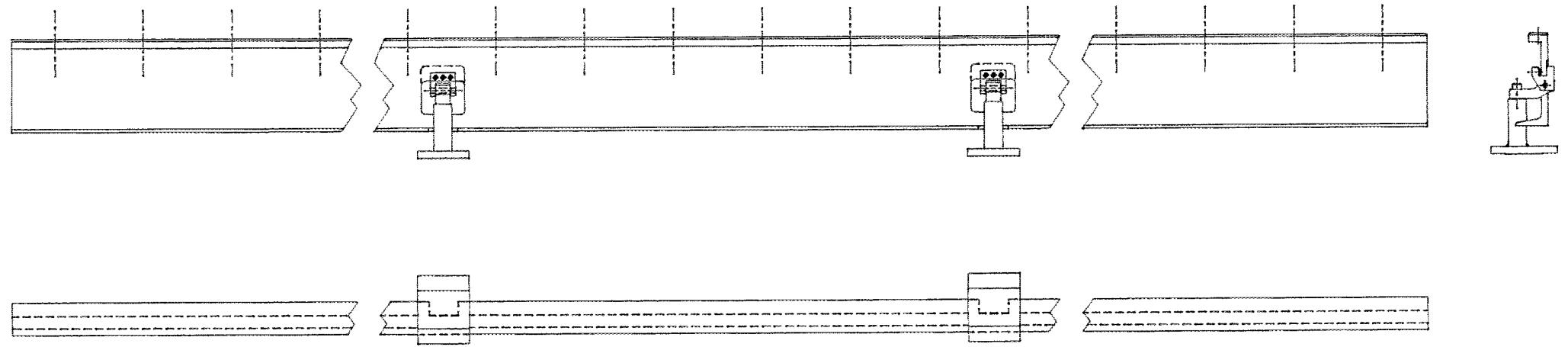
QTY	PART NUMBER	ITEM DESCRIPTION	ITEM
1	211-7017-005	BUSHING, 5/16 DIA x 7/16 O.D. x 3/4 LG	8
1	112-600-005	GROOVE PIN, 5/16 DIA x 1 3/4	7
1	102-0084-001	SCREW, 10-32 x 3/8 FHSCS	6
4	103-0046-012	SCREW, 5/16-18 x 1/2 SSS	5
1	801-0358-001	PIVOT CLAMP	4
1	101-0007-005	SCREW, 3/8-16 x 1 SHCS	3
1	801-0359-001	PIVOT BRACKET	2
1	701-0088-001	MOUNTING, TILTING BAR	1

... PARTS LIST ...

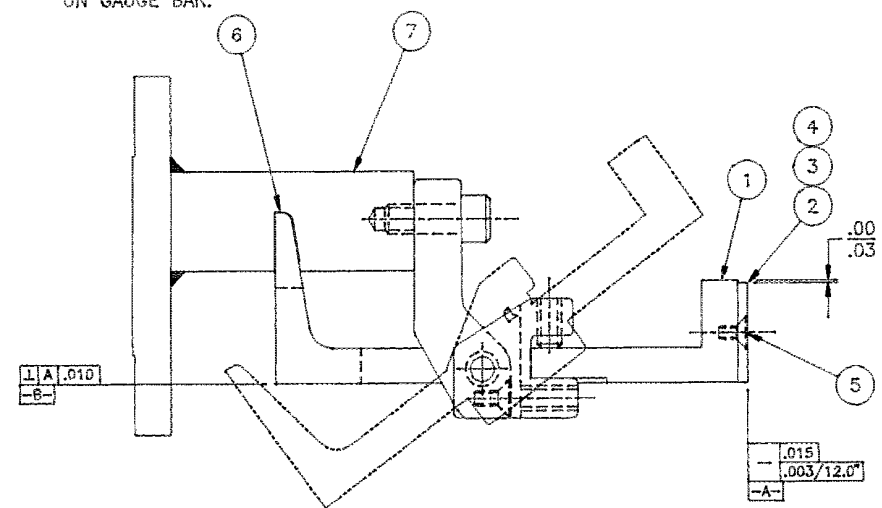
SURFACE TREATMENT None	EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCES DECIMAL 0 ±.030 00 ±.015 000 ±.005 0000 ±.0005 ANGULAR ±.0°/30°	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT None	BREAK ALL SHARP EDGES	DESCRIPTION TILTING BRACKET ASSY.	
FIRST USED ON S6, S7, S8	THIRD ANGLE PROJECTION	DRAWN Rg DATE 6/21/83 SCALE 1/1 UNIT OF MEAS IN	CHECKED Rg DATE 6/21/83 APPROVED Rg DATE 7/16/83 REV. C

SURFACE TREATMENT	EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCES DECIMAL 0 ±.030 00 ±.015 000 ±.005 0000 ±.0005 ANGULAR ±0°30'	 HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.					
HEAT TREATMENT		DESCRIPTION ASSTY, GAUGE BAR, 5"					
	BREAK ALL SHARP EDGES	DRAWN DB	DATE 26 OCT 83	CHECKED WAL	DATE 31 NOV 83	APPROVED PLC	DATE 11 NOV 83
FIRST USED ON	THIRD ANGLE PROJECTION 	SCALE NONE	SIZE C	DRAWING 001-1448	SHT. -001 THRU -012	REV. 1 OF 1	E
56457							

SIZE	DRAWING	REV.	REV.	REV.
D	001-1442-THRU 005	001	1	1
PROPRIETARY INFORMATION				
INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HURCO MANUFACTURING COMPANY, INC. NO REPRODUCTION OR DISCLOSURE OF THIS INFORMATION SHALL BE MADE BY THE RECIPIENT TO ANY OTHER PERSON OR ORGANIZATION WITHOUT THE PRIOR WRITTEN CONSENT OF HURCO MANUFACTURING COMPANY, INC.				



NOTE:
CENTER ITEM 10 LENGTHWISE
ON GAUGE BAR.

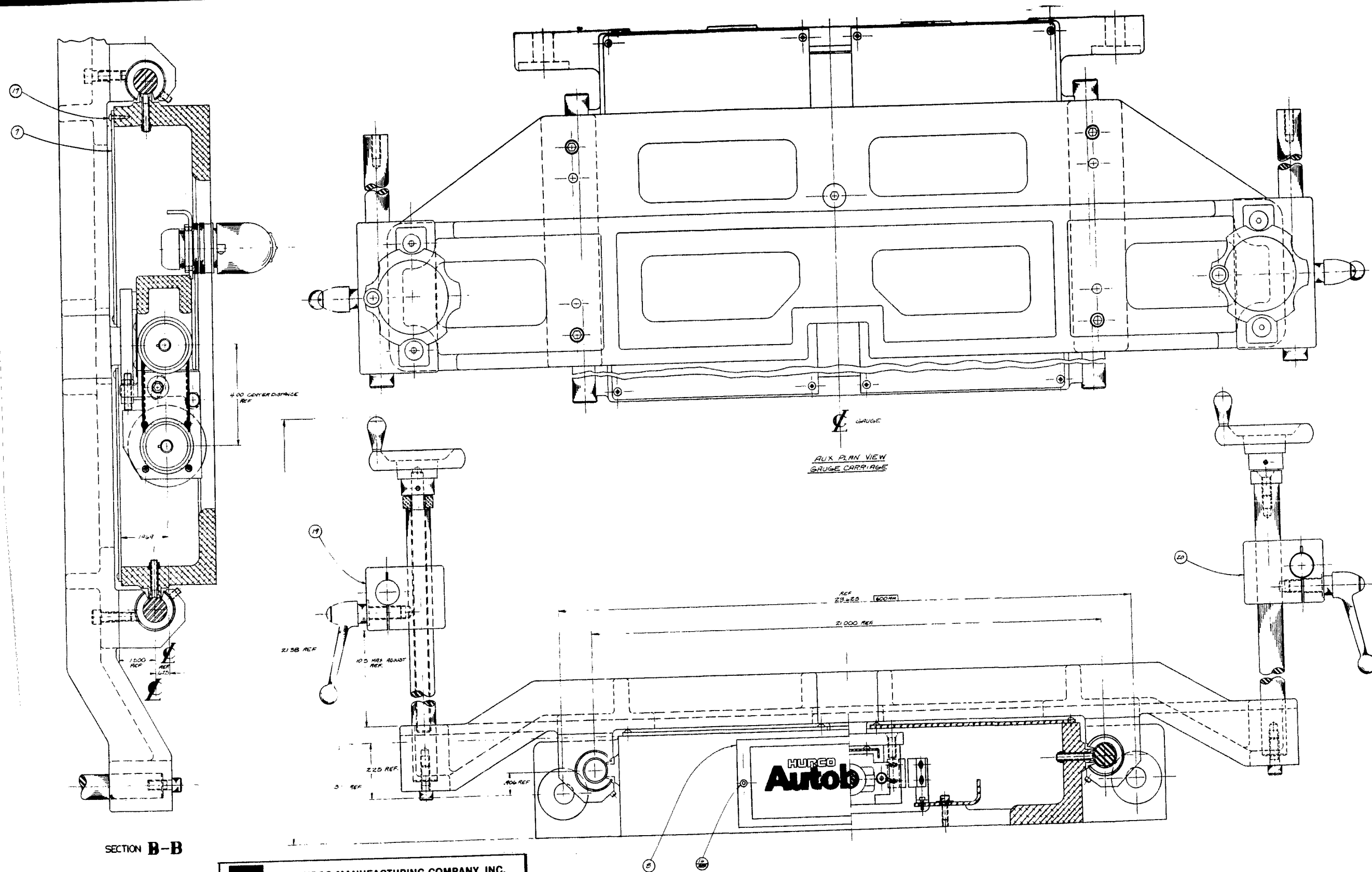


END VIEW SHOWING
TILTING BRACKET ASSY
INSTALLED, TYP (2) PLCS.

REF	—	—	—	—	801-0699-005	CONT. REAR GAUGE BAR, 10'-0"	16
—	REF	—	—	—	801-0699-004	CONT. REAR GAUGE BAR, 9'-6"	15
—	—	REF	—	—	801-0699-003	CONT. REAR GAUGE BAR, 9'-0"	14
—	—	—	REF	—	801-0699-002	CONT. REAR GAUGE BAR, 8'-6"	13
—	—	—	—	REF	801-0699-001	CONT. REAR GAUGE BAR, 8'-0"	12
2	2	2	2	2	614-0002-051	SPACER, 9.0 X 24.0	11
2	2	2	2	2	614-0002-046	END CAP, 17.6 X 33.0	10
2	2	2	1	1	614-0002-045	COLLAR, 6.0 X 26.2	9
1	1	1	1	1	614-0002-042	WRAP, 54.1 X 144.0	8
2	2	2	2	2	001-1440-001	ASSY, TILTING BRACKET	7
9'	9'	8'	8'	7'	703-0003-009	WARNING STRIPE	6
20	19	18	17	16	102-0003-001	FHSCS, #8-32 X 3/8" LG	5
2	2	—	1	—	813-5074-005	42" GAUGE BAR FACE	4
1	—	3	—	1	813-5074-004	36" GAUGE BAR FACE	3
—	1	—	2	2	813-5074-003	30" GAUGE BAR FACE	2
120"	114"	108"	102"	96"	813-0129-000	EXTRUSION, 6" CONTINUOUS ALUMINUM	1
QTY. 10'-0" -005	QTY. 9'-6" -004	QTY. 9'-0" -003	QTY. 8'-6" -002	QTY. 8'-0" -001	PART NUMBER	ITEM DESCRIPTION	ITEM

SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT		.00 .0000 .00 .0000 .0000 .0000 ANGULAR & 90° BREAK ALL SHARP EDGES		DESCRIPTION ASSY, 6" GAUGE BAR	
FIRST USED ON		THIRD ANGLE PROJECTION		DATE 10-10-83	
S7		D		DATE 11-9-83	
REV. 1		REV. 1		DATE 11-9-83	
REV. 2		REV. 2		DATE 11-9-83	
REV. 3		REV. 3		DATE 11-9-83	
REV. 4		REV. 4		DATE 11-9-83	
REV. 5		REV. 5		DATE 11-9-83	
REV. 6		REV. 6		DATE 11-9-83	
REV. 7		REV. 7		DATE 11-9-83	
REV. 8		REV. 8		DATE 11-9-83	
REV. 9		REV. 9		DATE 11-9-83	
REV. 10		REV. 10		DATE 11-9-83	
REV. 11		REV. 11		DATE 11-9-83	
REV. 12		REV. 12		DATE 11-9-83	
REV. 13		REV. 13		DATE 11-9-83	
REV. 14		REV. 14		DATE 11-9-83	
REV. 15		REV. 15		DATE 11-9-83	
REV. 16		REV. 16		DATE 11-9-83	
REV. 17		REV. 17		DATE 11-9-83	
REV. 18		REV. 18		DATE 11-9-83	
REV. 19		REV. 19		DATE 11-9-83	
REV. 20		REV. 20		DATE 11-9-83	
REV. 21		REV. 21		DATE 11-9-83	
REV. 22		REV. 22		DATE 11-9-83	
REV. 23		REV. 23		DATE 11-9-83	
REV. 24		REV. 24		DATE 11-9-83	
REV. 25		REV. 25		DATE 11-9-83	
REV. 26		REV. 26		DATE 11-9-83	
REV. 27		REV. 27		DATE 11-9-83	
REV. 28		REV. 28		DATE 11-9-83	
REV. 29		REV. 29		DATE 11-9-83	
REV. 30		REV. 30		DATE 11-9-83	
REV. 31		REV. 31		DATE 11-9-83	
REV. 32		REV. 32		DATE 11-9-83	
REV. 33		REV. 33		DATE 11-9-83	
REV. 34		REV. 34		DATE 11-9-83	
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REV. 37		REV. 37		DATE 11-9-83	
REV. 38		REV. 38		DATE 11-9-83	
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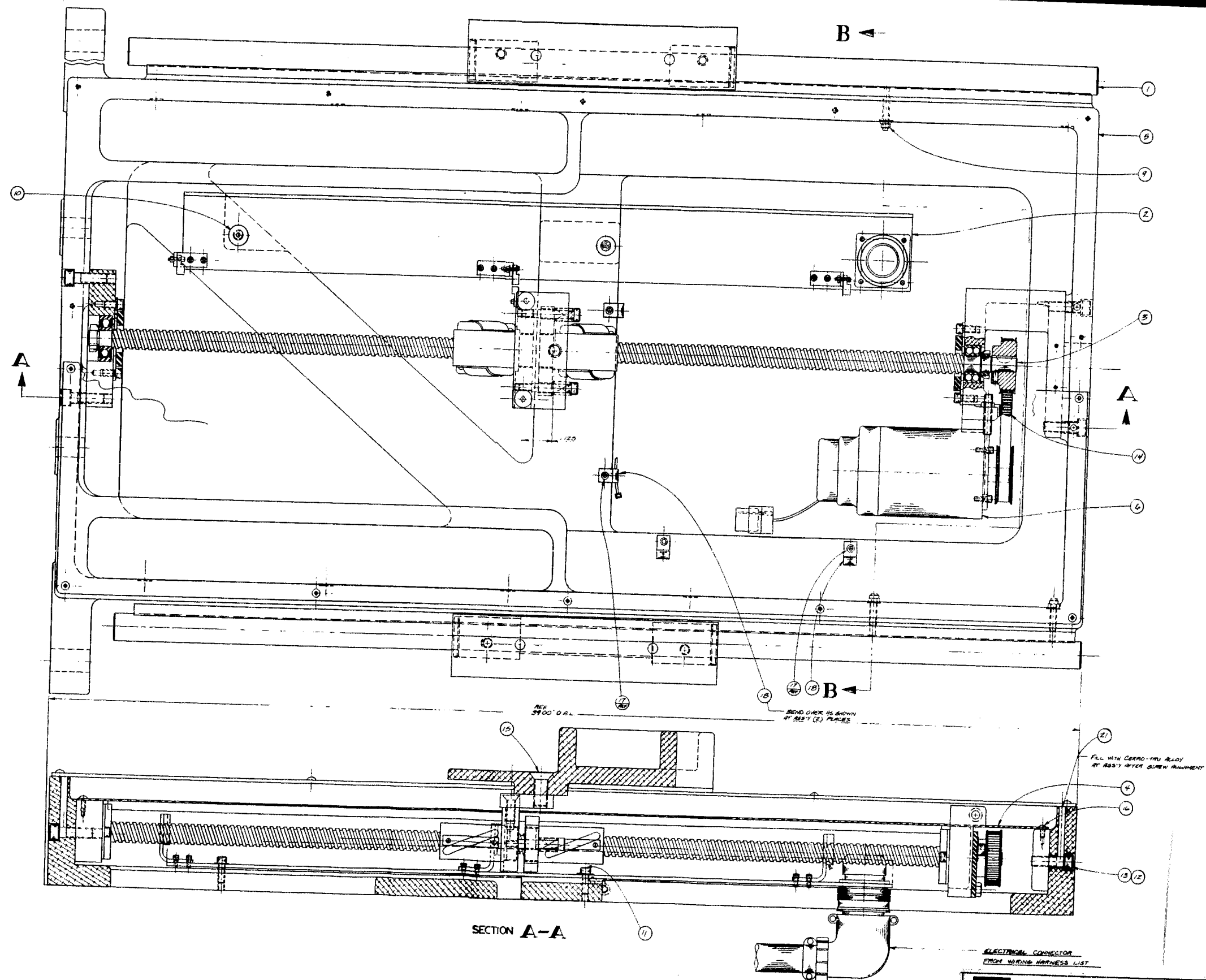
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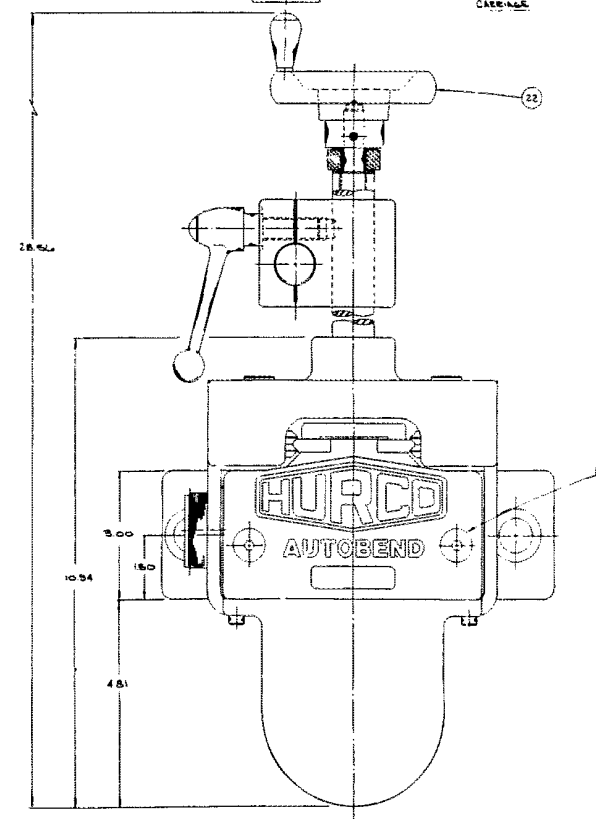
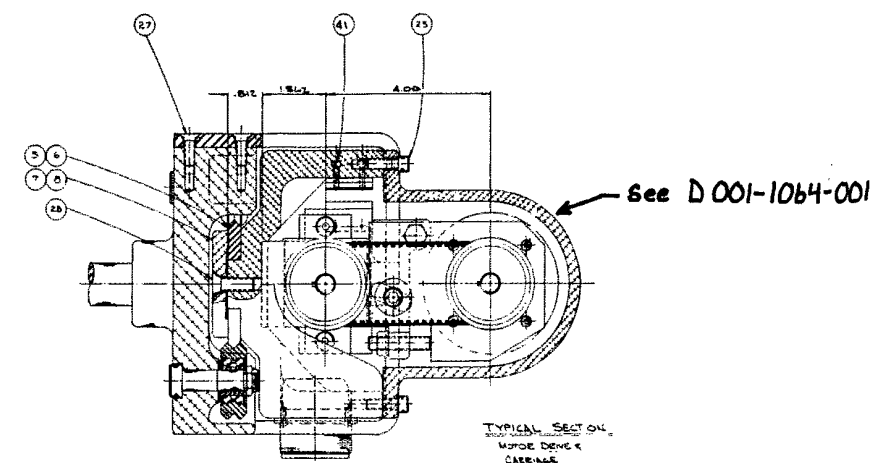
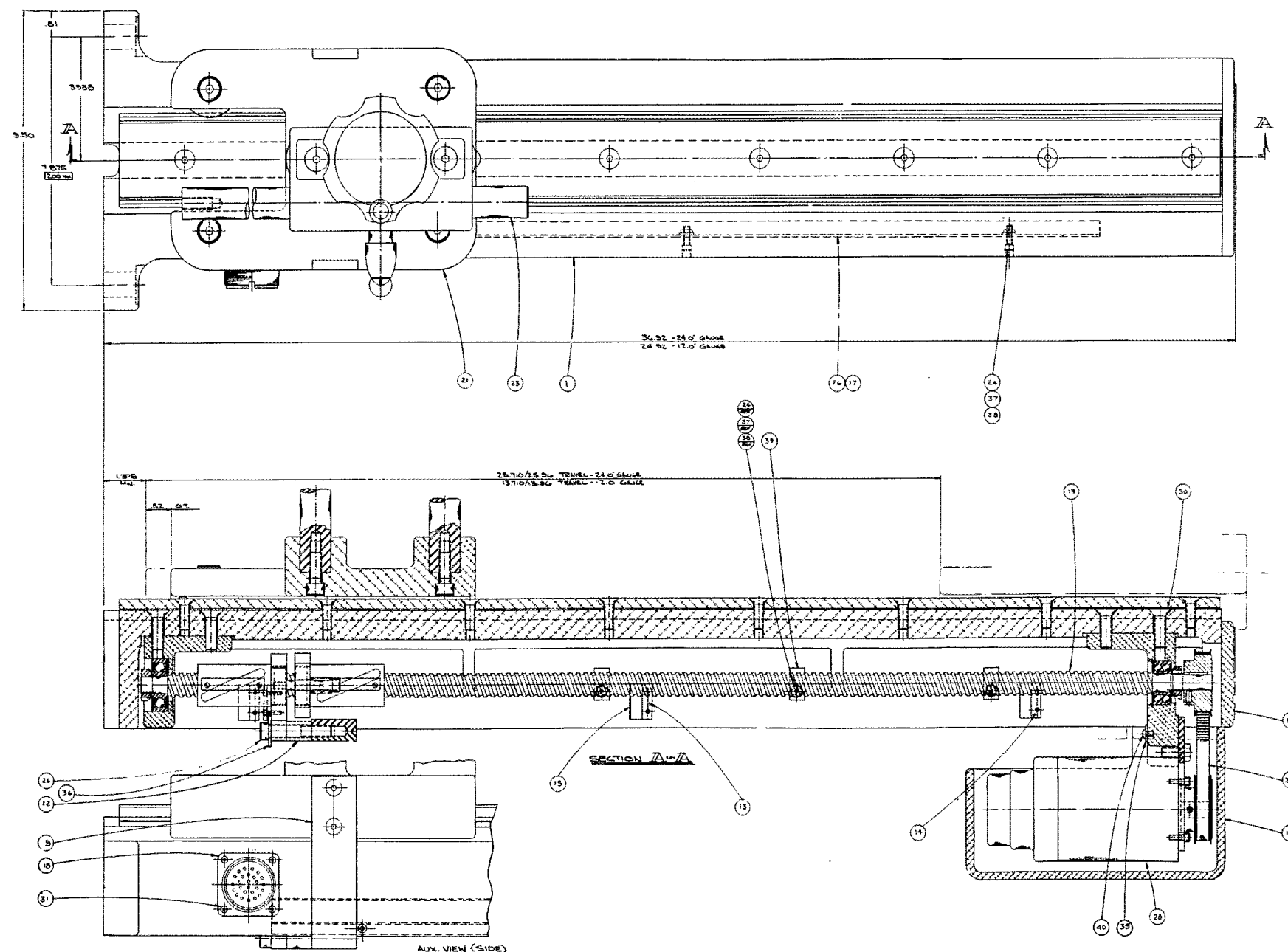
SECTION B-B

 HURCO MANUFACTURING COMPANY, INC. Indianapolis, Indiana					
DESCRIPTION					
DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
SCALE	SIZE	DRAWING		SHT.	REV.
UNIT OF MEAS.	E	001-1125		OF	F

Lead Screw Gauge Assembly (sheet 2 of 2)



 HURCO MANUFACTURING COMPANY, INC. Indianapolis, Indiana						
DESCRIPTION						
DRAWN	DATE	CHECKED	DATE	APPROVED	DATE	
SCALE	SIZE	DRAWING			SHT.	REV.
UNIT OF MEAS.	E	001-1125			OF	C



PROPRIETARY INFORMATION
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REV	DATE	DESCRIPTION	BY	CHKD
1	10-1-78	DESIGN	J. J. J.	J. J. J.
2	10-1-78	MANUFACTURING	J. J. J.	J. J. J.
3	10-1-78	ASSEMBLY	J. J. J.	J. J. J.
4	10-1-78	TESTING	J. J. J.	J. J. J.
5	10-1-78	REVISION	J. J. J.	J. J. J.

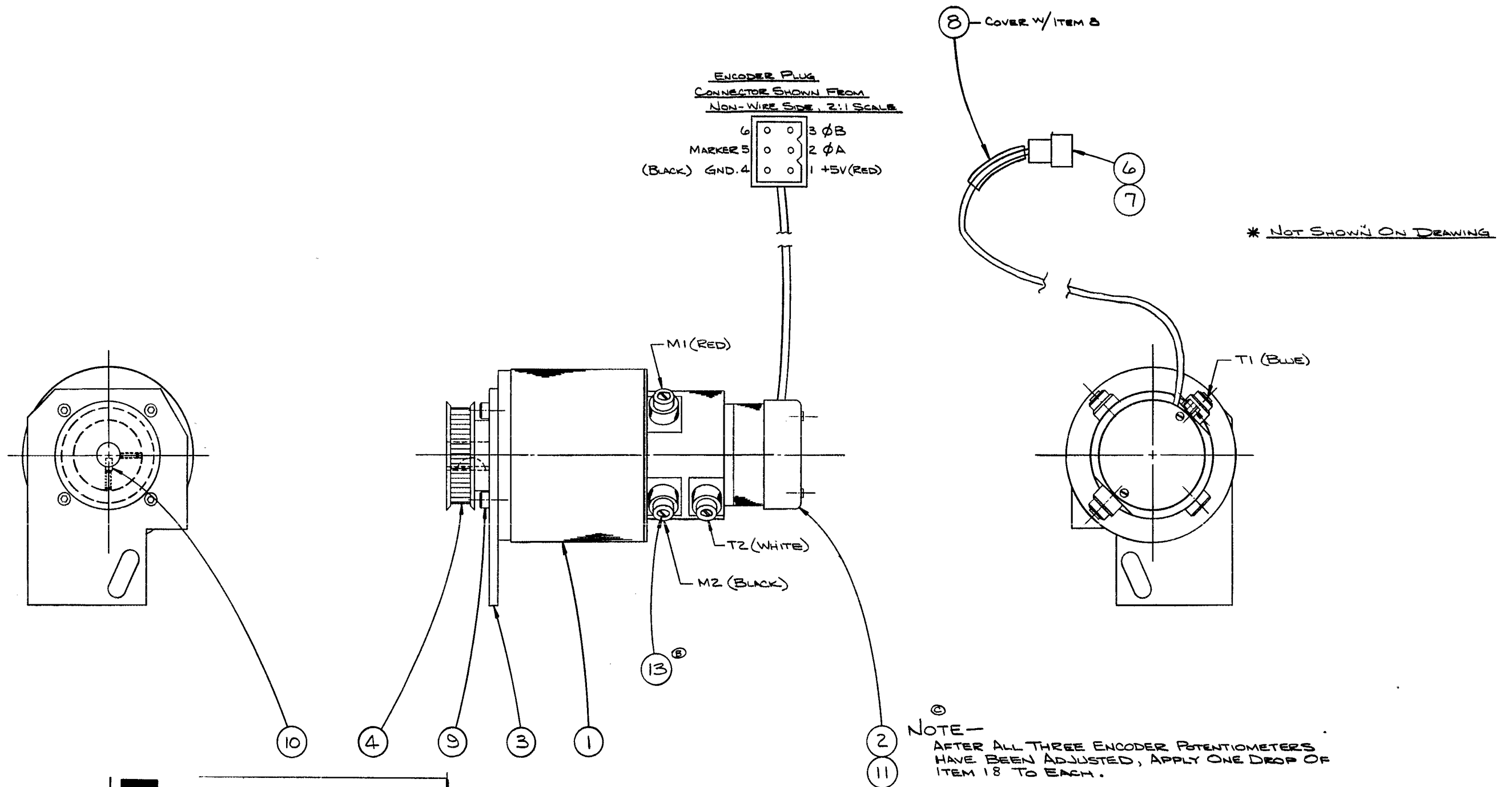
SIZE		ASSEMBLY N°	REV.	PARTS LIST - HURCO MFG. CO.												ASSEMBLY DESCRIPTION:		
DWS. SIZE	DRAWING NUMBER	C	QUANTITY PER ASSEMBLY												MAIN GAUGE ASSEMBLY - REAR			
			12" L.H.	12" R.H.	24" L.H.	24" R.H.									MODEL:	AUTOBEND S-5		
			001	002	003	004									DRAWING DESCRIPTION	ITEM		
E	801-0053-001		1												12" MAIN FRAME - L.H. REAR	1		
E	801-0053-002			1											12" MAIN FRAME - R.H. REAR	1		
E	801-0048-001				1										24" MAIN FRAME - L.H. REAR	1		
E	801-0048-002					1									24" MAIN FRAME - R.H. REAR	1		
B	801-0059-003		2	2											CARRIAGE WAY - 12"	5		
B	801-0059-004				2	2									CARRIAGE WAY - 24"	6		
C	801-0062-001		1	1											WAY CLAMP - 12"	7		
C	801-0062-002				1	1									WAY CLAMP - 24"	8		
C	901-0008-001		1	1	1	1									DRIVE YOKE	9		
D	801-0056-001		1	1	1	1									DRIVE MOTOR GUARD	10		
B	801-0058-003		1	1	1	1									END CAP	11		
B	801-0069-001		1	1	1	1									SPACER	12		
B	801-0063-001		1	1	1	1									NUT PLATE (STEEL)	13		
B	801-0064-001		2	2	2	2									NUT PLATE (ALUMINUM)	14		
B	801-0070-001		1	1	1	1									SWITCH SHIELD	15		
B	801-0099-001				1	1									WIRING COVER	16		
B	801-0099-002		1	1											WIRING COVER	17		
C	423-6012-001		1	1											GAUGE WIRING HARNESS	18		
C	423-6012-002				1	1									GAUGE WIRING HARNESS	18		
D	001-1064-001		1	1											LEAD SCREW-DRIVE ASSEMBLY	19		
															DRAWN BY	W. C. Kuester	DATE	4/22/77
															CHECKED BY		DATE	
															APPROVED BY	J. Nance	DATE	10/28/77
															SIZE	ASSEMBLY N°	REV.	SMT 1
															E	001-1013	C	OF 3
															REV.	ECN N°	DATE	BY
															C	2606	5-2-78	Ds
															B	ECN 2246	10-27-77	Wc
															A	2239	10-24-77	S

HOF 75 - 7/74

HBF 75 - 7/74

PARTS LIST - HURCO MFG. CO.												ASSEMBLY DESCRIPTION:			
SIZE	ASSEMBLY N ^o	REV.	QUANTITY PER ASSEMBLY								MAIN GAUGE ASSEMBLY - REAR				
DWS. SIZE	DRAWING NUMBER	C	12"	12"	24"	24"						MODEL:	AUTOBEND S-5		
			L.H.	R.H.	L.H.	R.H.									
			001	002	003	004									
D	001-1064-002				1	1						LEAD SCREW-DRIVE ASSEMBLY	19		
C	001-1032-001		1	1	1	1						MOTOR-ENCODER ASSEMBLY	20		
D	001-1062-001		1	1	1	1						CARRIAGE ASSEMBLY	21		
D	001-1034-001		1		1							VERTICAL GAUGE SUPPORT ASSEMBLY	22		
D	001-1034-002			1		1						VERTICAL GAUGE SUPPORT ASSEMBLY	22		
	101-0003-003		6	6	6	6						#8-32 X 1/2" LG. S.H.C.S.	24		
	101-0005-004		4	4	4	4						1/4-20 X 3/4" LG. S.H.C.S.	25		
	101-0047-008		1	1	1	1						3/8-16 X 1 3/4" LG. S.H.C.S.N.	26		
	102-0005-004		4	4	4	4						1/4-20 X 3/4" LG. F.H.S.C.S.	27		
	102-0006-004		5	5	8	8						5/16-18 X 1" LG. F.H.S.C.S.	28		
	102-0007-004		2	2	2	2						3/8-16 X 1" LG. F.H.S.C.S.	29		
	102-0007-005		4	4	4	4						3/8-16 X 1 1/4" LG. F.H.S.C.S.	30		
	108-0002-002		4	4	4	4						#6-32 X 3/8" LG. B.H.S.C.S.	31		
	204-0002-001		1	1	1	1						TIMING BELT - BROWNING #140XL037	32		
	406-5001-002		4	4	4	4						CABLE, TIE MOUNT - PANDUIT #TALS8M	33		
	406-5001-006		4	4	6	6						TIE WRAP - PANDUIT #SST21	34		
	408-7501-018		3	3	3	3						CLAMP - H.H. SMITH #1471	35		
	110-0002-003		1	1	1	1						3/8 NOM. I.D. FLAT WASHER	36		
	117-0002-016		6	6	8	8						#8-32 JAM NUT	37		
	110-0042-003		6	6	8	8						#8 LOCK WASHER	38		
												DRAWN BY	W. C. Kuester	DATE	4/22/77
												CHECKED BY		DATE	
												APPROVED BY	J. Nance	DATE	10/28/77
												SIZE	ASSEMBLY N ^o	REV.	SMT 2
												E	001-1013	C	OF 3
												REV.	ECN N ^o	DATE	BY

HOF 75 - 7/74



HURCO HURCO MANUFACTURING COMPANY, INC. Indianapolis, Indiana					
DESCRIPTION					
DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
SCALE	SIZE	DRAWING	-004	SHT.	REV.
UNIT OF MEAS.	D	001-1032-005	OF		C

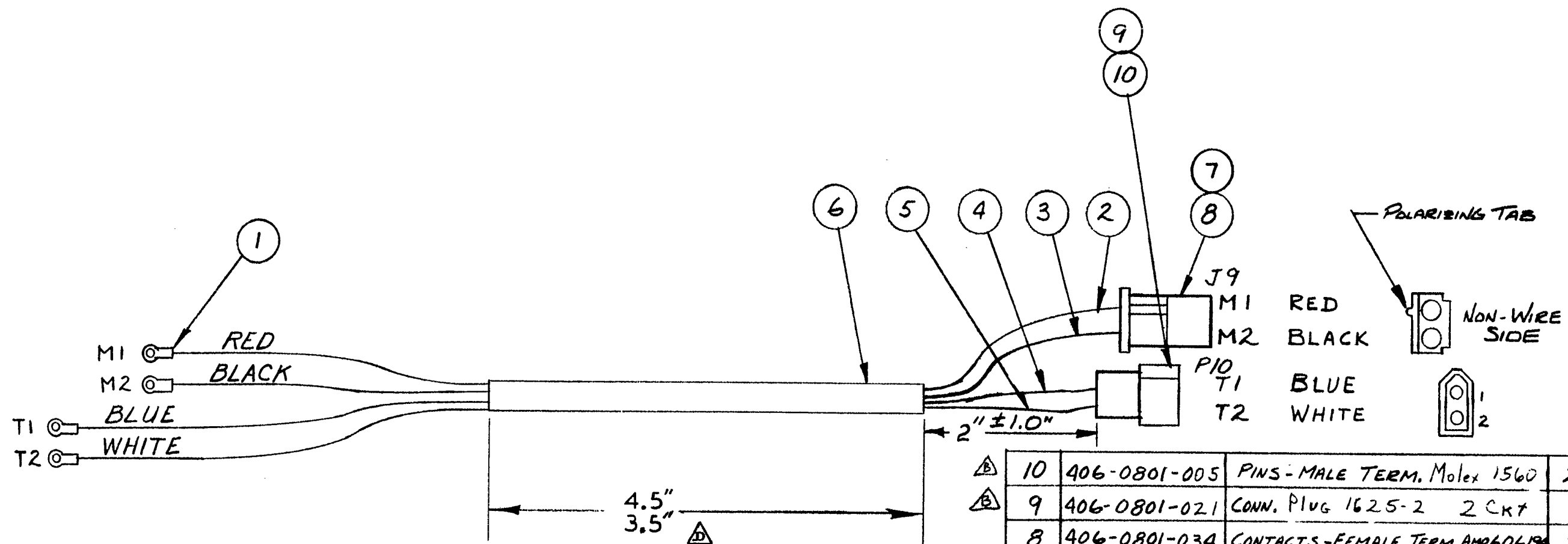
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C		001-1032		H		QUANTITY PER ASSEMBLY										MOTOR/ENCODER ASSEMBLY		
Dwg. SIZE		DRAWING NUMBER														MODEL: AUTOBEND S-4 & S-5		
																DRAWING DESCRIPTION		ITEM
C		401-4002-001		1		1										MOTOR/TACHOMETER ASSEMBLY	1	
B		416-0248-008		1		1										ENCODER - DIFFERENTIAL BODY	2	
B		801-0027-002		1		1										MOTOR MOUNTING BRACKET	3	
B		208-0002-001		1		1										TIMING BELT PULLEY	4	
		407-0004-010		1		1										CAPACITOR, 2.2 uf, 25V TANTALUM	5	
		406-0801-003		1		1										CONN. RECEPTACLE - MOLEX #1625-6P1	6	
		406-0801-005		5		2										PINS - MALE TERM - MOLEX #1560	7	
		406-6481-004		6"		6"										SHRINKABLE SLEEVE, 1/4 DIA. ALPHAFIT 221	8	
		101-0003-003		4		4										#8-32 x 1/2 S.H.C.S.	9	
		609-0001-010		1		1										#305 WOODRUFF KEY	10	
C		401-4002-004		-		1										MOTOR/TACH ASSY.-ELECTROCRAPT	1	
		348-0001-001		3		3										TORQUE SEAL-YELLOW	18	
		416-0248-009		1		1										ENCODER DISC FOR	11	
																416-0248-008		
		406-0801-021		-		1										CONN. Plug #1625-2 2 CRT.	12	
		406-0801-033		-		2										PINS-MALE TERM.-AMP 60620-4	13	
		406-0801-031		-		1										CONN. AMP1-4-80318-0 SOCKET	14	
		406-0801-034		-		2										CONTACTS-FEMALE TERM. AMP 60619-4	15	
B		423-0047 001						1								MOTOR/TACH CABLE	16	
		406-0801-052		5		5										.062 PIN 26/30 AWG. TIN	17	

H	5253	11-5	RA
G	4638	12-31	RA
F	3921	3-74	GB
E	3858	6-18	BC

D	3710	7-74	
C	3378	12-74	
B	3350	12-74	RA
A	NEW STR	CON 2251	

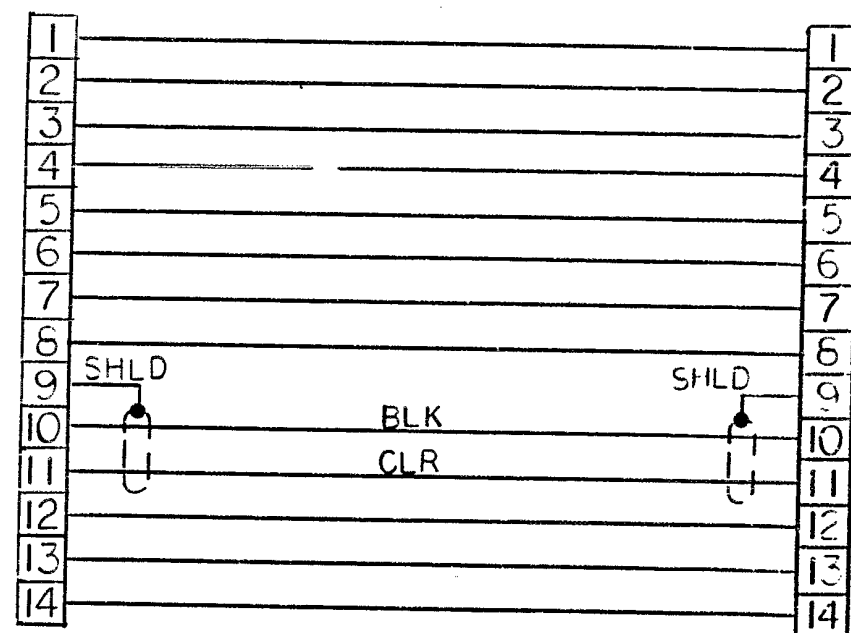
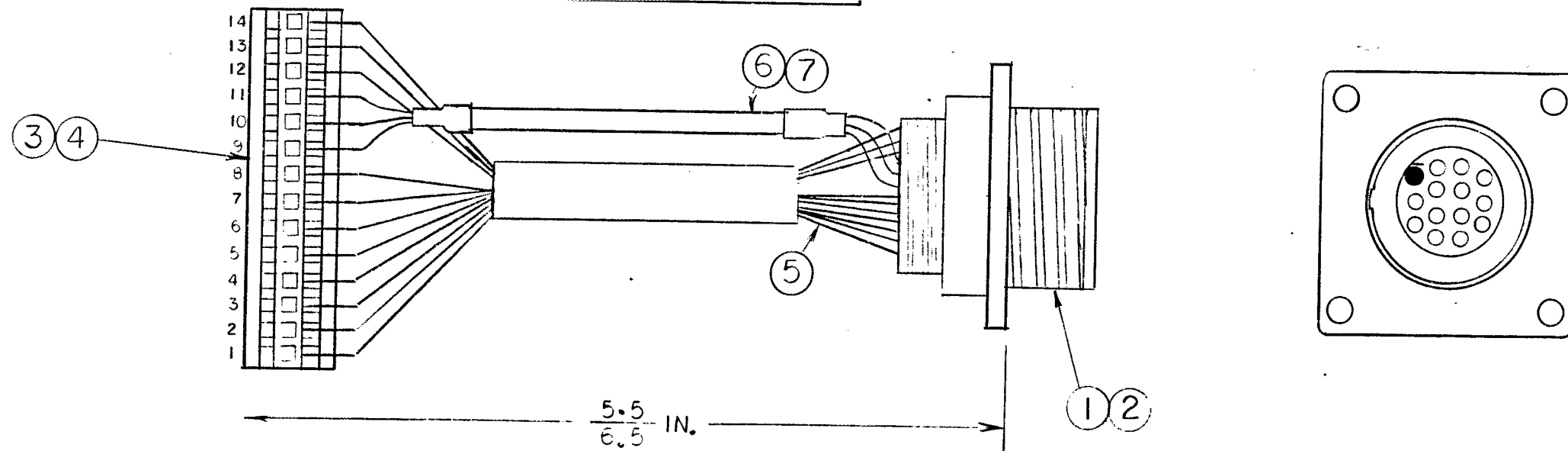
REV.	ECN N ^o	DATE	BY

DRAWN BY		D. Strang	DATE	7/28/77
CHECKED BY			DATE	
APPROVED BY		J. Nance	DATE	10/28/77
SIZE	ASSEMBLY N ^o		REV.	H
C	001-1032		SHT	1
			OF	1



10	406-0801-005	PINS-MALE TERM. Molex 1560	2
9	406-0801-021	CONN. Plug 1625-2 2 CRT	1
8	406-0801-034	CONTACTS-FEMALE TERM. AMP 60619	2
7	406-0801-031	CONN. AMP-1-4-80318-0 SOCKET	1
6	406-6481-005	3/8" SHRINK SLEEVE	4.5"
5	406-2005-029	WIRE 18 GAUGE WHITE 8918-9	11"
4	406-2005-026	WIRE 18 GAUGE BLUE 8918-6	11"
3	406-2005-020	WIRE 18 GAUGE BLACK 8918-10	10"
2	406-2005-022	WIRE 18 GAUGE RED 8918-2	10"
1	406-7001-006	TERMINAL RING	4

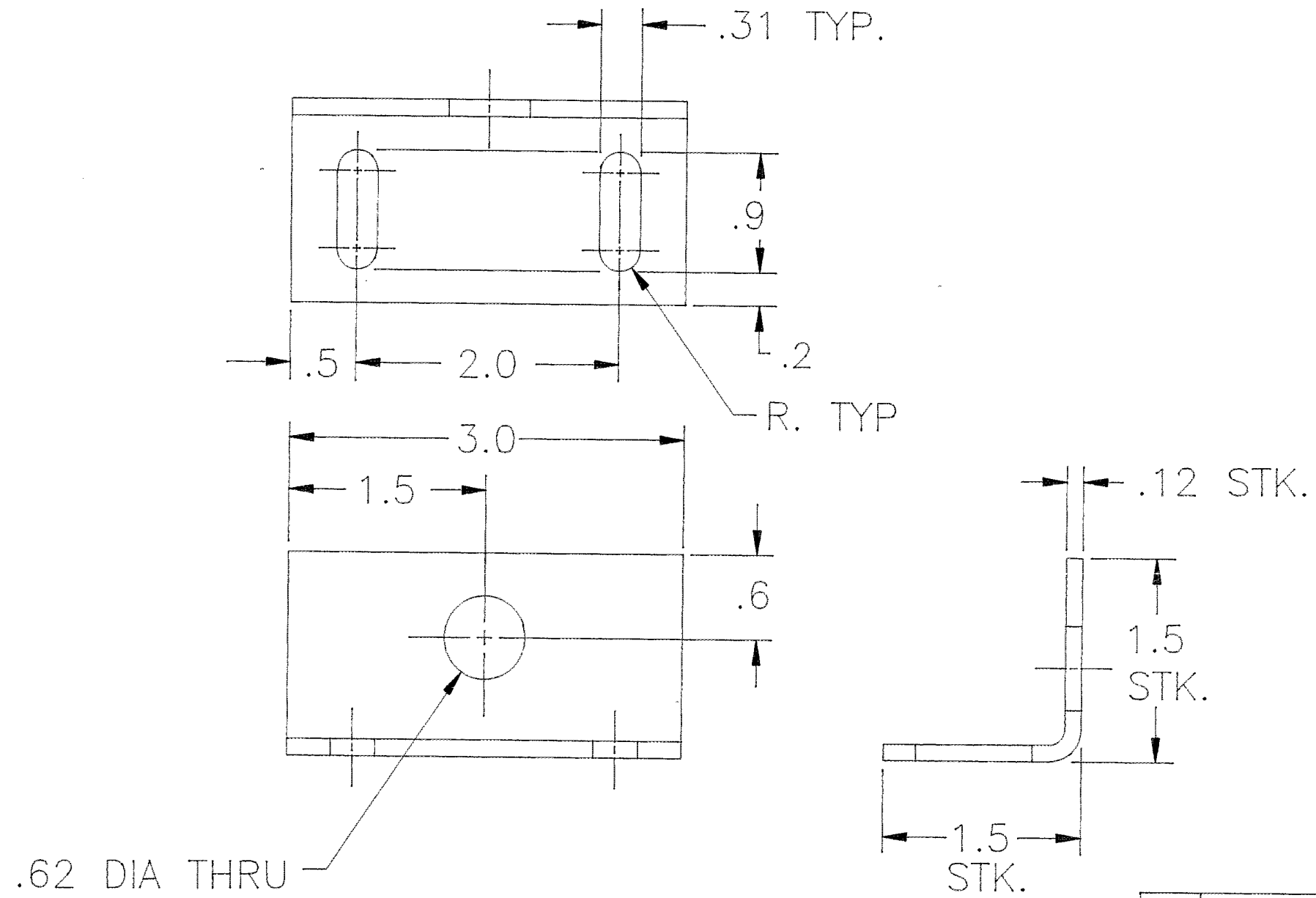
HURCO HURCO MANUFACTURING COMPANY, INC. Indianapolis, Indiana					
DESCRIPTION					
DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
SCALE	SIZE	DRAWING		SHT.	REV.
UNIT OF MEAS.	B	423-0047-001		OF	D



⑥	4"	4066481004 TUBING SHRINK 1/4 DIA.	7
	6"	4061242002 CABLE 2COND SHIELD 18 AWG	6
	70"	4061683010 WIRE BLK 18 AWG	5
	1	4060803267 COVER	4
	1	4060803231 MTA CONNECTOR, 14 P. 18 AWG.	3
	14	4067501009 SOCKET, 16-18 AWG.	2
	1	4060485005 RECEPTICAL FLANGE SOCKET 14 P	1
QTY	PART NUMBER	ITEM DESCRIPTION	ITEM

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SIZE	DRAWING	SHT.	REV.	PROPRIETARY INFORMATION INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HURCO MANUFACTURING COMPANY, INC. NO REPRODUCTION OR DISCLOSURE OF THIS INFORMATION SHALL BE MADE BY THE RECIPIENT TO ANY OTHER PERSON OR ORGANIZATION WITHOUT THE PRIOR WRITTEN CONSENT OF HURCO MANUFACTURING COMPANY, INC.
B	801-0803-002	1		
		OF 1		

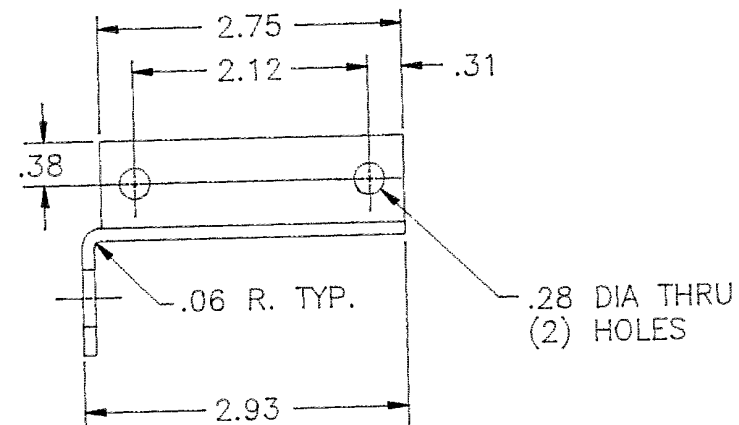
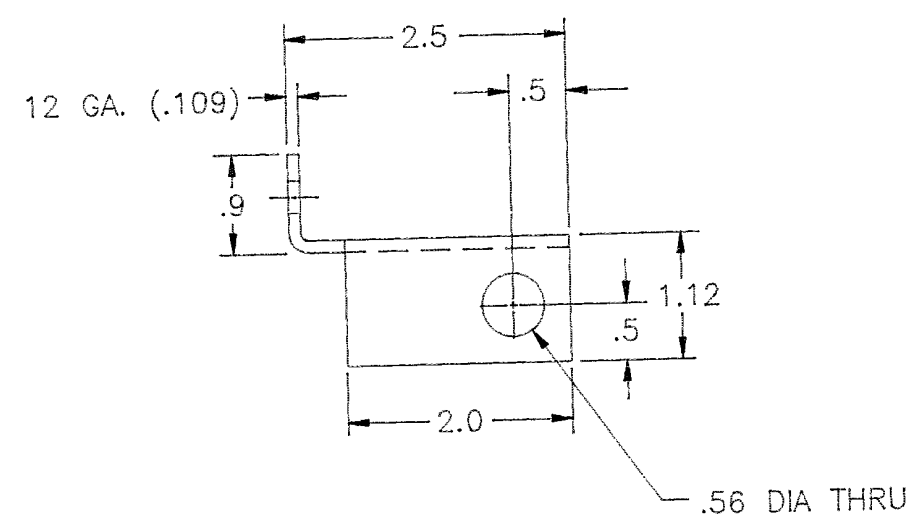
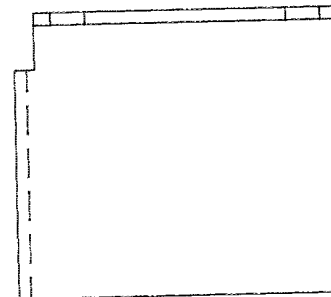


CN
AB265

REV	DATE	CHK	DATE	APP	DATE	DF
A	11550	REL.				

3.0"	303-0004-017	1/8 X 1 1/2 X 1 1/2	1020 H.R. ANGLE	-
QTY.	PART NUMBER	ITEM DESCRIPTION		ITEM
PARTS LIST				
SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL		
BLACK OXIDE		.0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± 0°30' BREAK ALL SHARP EDGES		
HEAT TREATMENT		THIRD ANGLE PROJECTION		
FIRST USED ON		SCALE		
001-1501-006		1=1		
		UNIT OF MEAS		
		PC		
		SIZE		
		B		
		DRAWING		
		801-0803-002		
		SHT.		
		1		
		REV.		
		1		

SIZE	DRAWING	SHT.	REV.	PROPRIETARY INFORMATION
C	801-0803-003	1 OF 1		INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HURCO MANUFACTURING COMPANY, INC. NO REPRODUCTION OR DISCLOSURE OF THIS INFORMATION SHALL BE MADE BY THE RECIPIENT TO ANY OTHER PERSON OR ORGANIZATION WITHOUT THE PRIOR WRITTEN CONSENT OF HURCO MANUFACTURING COMPANY, INC.



(B)	1	801-0803-803	12 GA (.109) X 3.2 X 3.9 LG. 1018 C.R.S.	—
QTY.	PART NUMBER	ITEM DESCRIPTION		ITEM
PARTS LIST				
SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE		
BLACK OXIDE		DECIMAL .0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± 0°30' BREAK ALL SHARP EDGES		
HEAT TREATMENT		HURCO HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.		
FIRST USED ON		DESCRIPTION BRACKET, S5 "UPGRADE KIT" (R.H.) LIMIT SWITCH		
001-1501-007		DRAWN J.L.W. DATE 11-05-91 CHECKED R.J.H. DATE 11-08-91 APPROVED DATE		
THIRD ANGLE PROJECTION		SCALE 1=1 UNIT OF MEAS PC SIZE C DRAWING 801-0803-003 SHT. 1 REV. 1		

REV	P.I.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APPROV BY	DATE	DF
B	11914	ADDED MAT'L SIZE IN DESCRIPTION	J.W.	12/13/91					
A	11550	RELEASED							

CN
AB267

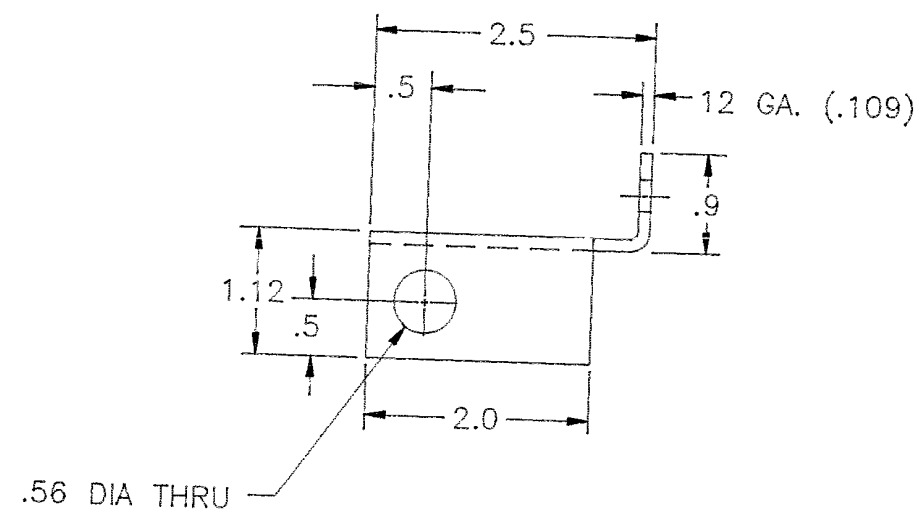
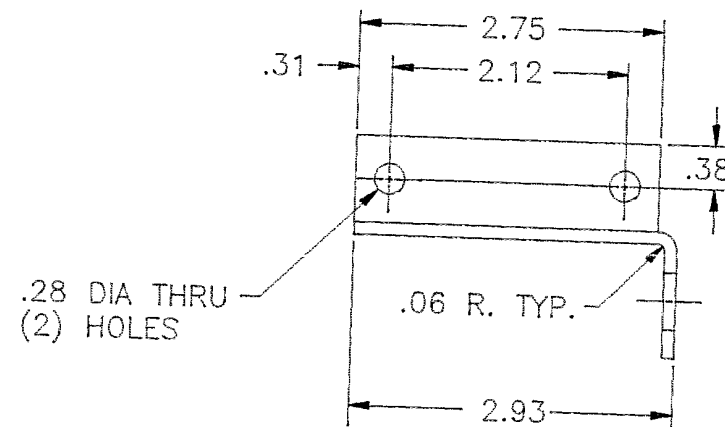
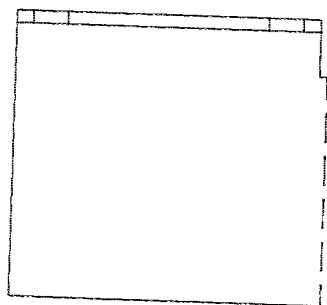
C

801-0803-004

OF
1

PROPRIETARY INFORMATION

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CN
AB270

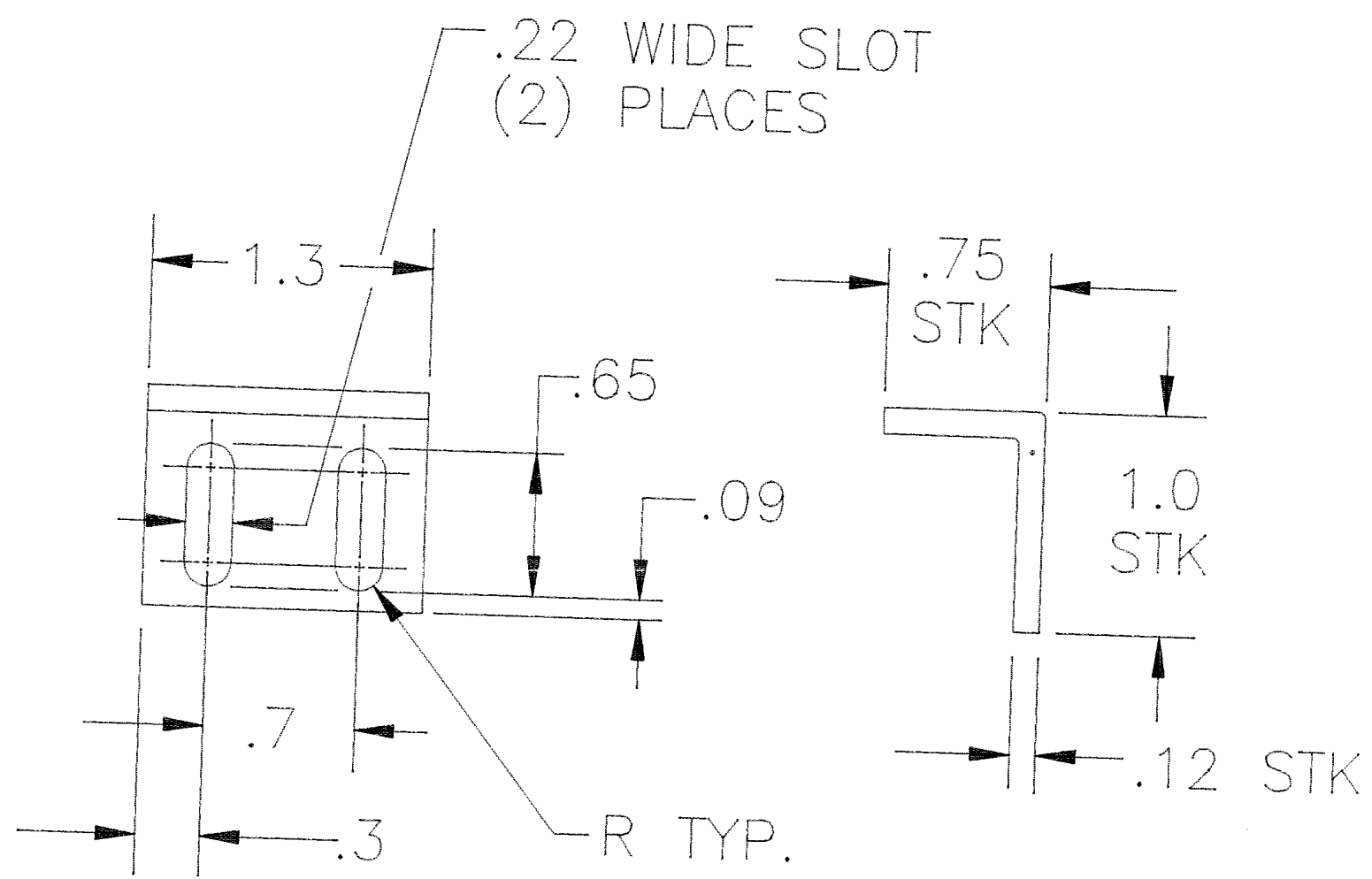
REV	P.L.N. NO.	REVISION DESCRIPTION	REV	DATE	CHK	DATE	APP	DATE	OF
B	11914	ADDED MAT'L SIZE IN DESCRIPTION	J.W.	11-13-91					
A	11550	RELEASED							

(B)

1	801-0803-803	12 GA. X 3.2 X 3.9 LG. 1018 C.R.S.		
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM	
PARTS LIST				
SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL		
BLACK OXIDE		.0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± 0°30'		
HEAT TREATMENT		BREAK ALL SHARP EDGES		
FIRST USED ON		THIRD ANGLE PROJECTION		
001-1501-007		SCALE 1=1 UNIT OF MEAS PC		
DRAWN J.L.W.		DATE 11-05-91	CHECKED R.J.H.	DATE 11-06-91
APPROVED		DATE		
DESCRIPTION BRACKET, S5 "UPGRADE KIT" (L.H.) LIMIT SWITCH		SHT. 1 OF 1		
DRAWING 801-0803-004		REV.		

SIZE	DRAWING	SHT.	REV.
A	801-0854-002	1 OF 1	

PROPRIETARY INFORMATION
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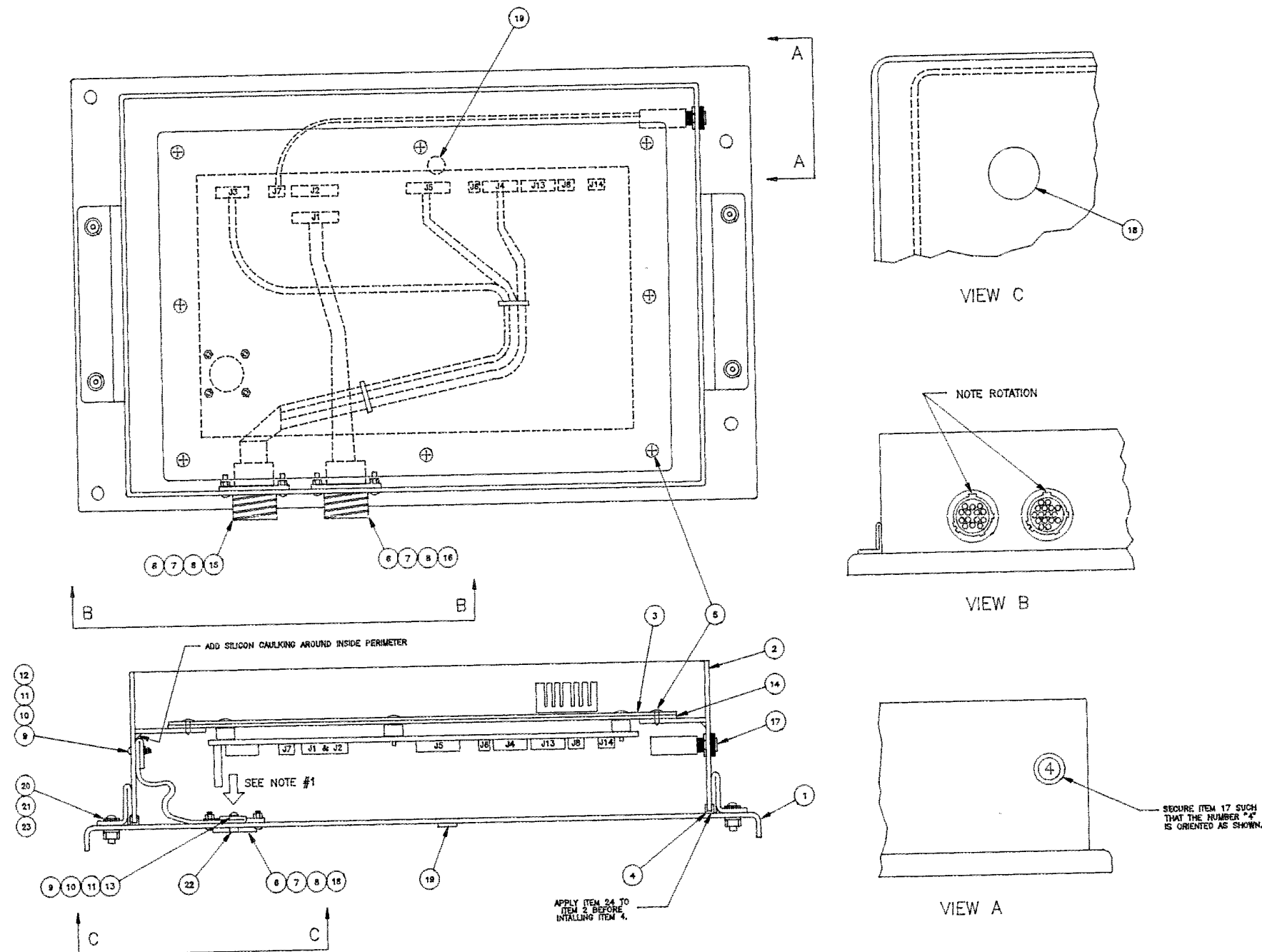


CN
AB278

1.3"	303-0004-006	1 X 3/4 X 1/8 ANGLE	
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL	
BLACK OXIDE		.0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± 0.30° BREAK ALL SHARP EDGES	
HEAT TREATMENT		DESCRIPTION	
~		SWITCH ACTUATOR, S5 "UPGRADE KIT"	
FIRST USED ON		DRAWN J.L.W.	
001-1501-007		DATE 2-28-92	
THIRD ANGLE PROJECTION		CHECKED R.J.H.	
UNIT OF MEAS PC		DATE 3-2-92	
		APPROVED	
		DATE	
		SHT. 1 OF 1	
		REV.	

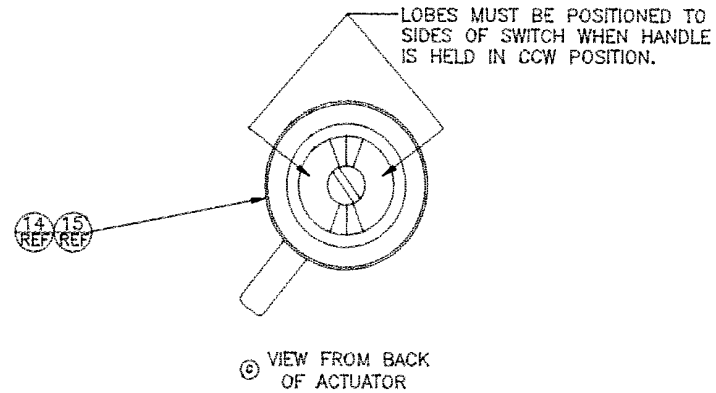
NOTES:

1. INSTALL ITEM 18 IN DIRECTION INDICATED.



REF	334-0001-005	CONTACT CEMENT X30	24
REF	117-1002-003	M6 NUTSERT	23
REF	117-1002-001	M4 NUTSERT	22
4	110-0067-007	M6 INT. TOOTH WASHER	21
4	101-5008-004	M6 X 16 SHCS	20
1	408-8001-041	HOLE PLUG, 9/16" BLACK	19
1	408-8001-026	HOLE PLUG, BP 1-1/8	18
1	423-6087-001	HARNES, CIRCUIT BREAKER	17
1	423-8085-009	HARNES, INTERIOR PERIPHERAL	16
1	423-6231-004	HARNES, ABSC REMOTE DRIVE INT	15
1	608-3044-002	GASKET, GAUGE DRIVE	14
2	324-0004-001	STRAP	13
2	117-5011-001	M4 X .7 STD. HEX NUT	12
4	110-5001-002	M4 FLAT WASHER	11
4	110-0067-006	M4 INT. TOOTH LOCKWASHER	10
4	108-5002-003	M4 X .7 X 12 SHCS	9
12	117-5009-001	M3 X .5 STD. HEX NUT	8
12	110-0067-004	M3 INT. TOOTH LOCKWASHER	7
12	101-5006-003	M3 X .5 X 10 SHCS	6
8	123-0001-008	SCREW, SELF TAPPING #10 X 1/2	5
51*	608-3044-039	GASKET, MOLDED	4
1	001-1408-004	ASSEMBLY, GAUGE DRIVE	3
1	901-0107-001	ENCLOSURE, ELECTRONICS	2
1	801-0811-001	BASE, ELECTRICAL ENCLOSURE, ABSC	1

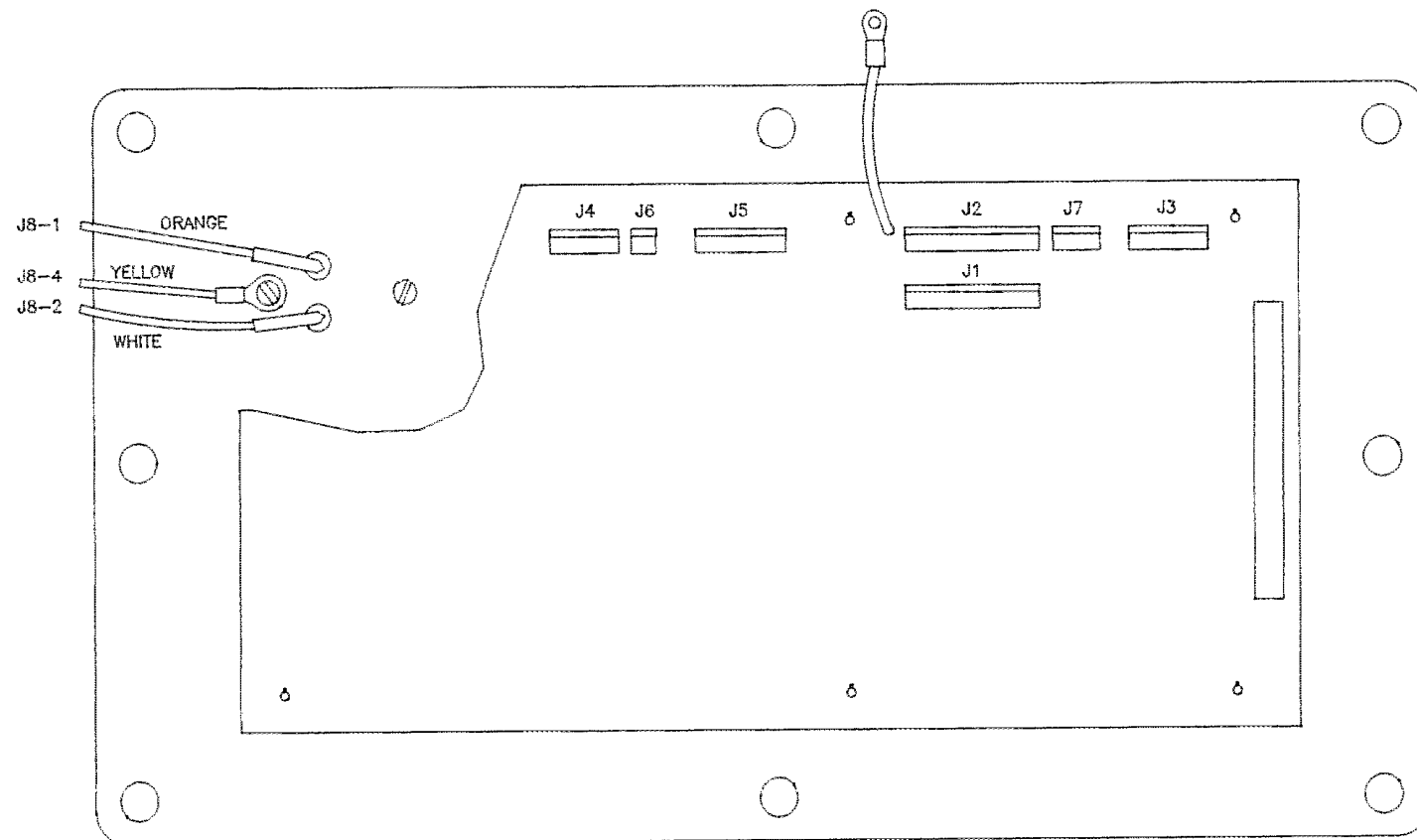
										SURFACE TREATMENT										EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE										 HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.									
																				DECIMAL .0000 ±.0000 .0001 ±.0100 .0002 ±.0050 .0003 ±.0005 .0004 ±.0005 .0005 ±.0005 .0006 ±.0005 .0007 ±.0005 .0008 ±.0005 .0009 ±.0005 .0010 ±.0005 .0011 ±.0005 .0012 ±.0005 .0013 ±.0005 .0014 ±.0005 .0015 ±.0005 .0016 ±.0005 .0017 ±.0005 .0018 ±.0005 .0019 ±.0005 .0020 ±.0005 .0021 ±.0005 .0022 ±.0005 .0023 ±.0005 .0024 ±.0005 .0025 ±.0005 .0026 ±.0005 .0027 ±.0005 .0028 ±.0005 .0029 ±.0005 .0030 ±.0005 .0031 ±.0005 .0032 ±.0005 .0033 ±.0005 .0034 ±.0005 .0035 ±.0005 .0036 ±.0005 .0037 ±.0005 .0038 ±.0005 .0039 ±.0005 .0040 ±.0005 .0041 ±.0005 .0042 ±.0005 .0043 ±.0005 .0044 ±.0005 .0045 ±.0005 .0046 ±.0005 .0047 ±.0005 .0048 ±.0005 .0049 ±.0005 .0050 ±.0005 .0051 ±.0005 .0052 ±.0005 .0053 ±.0005 .0054 ±.0005 .0055 ±.0005 .0056 ±.0005 .0057 ±.0005 .0058 ±.0005 .0059 ±.0005 .0060 ±.0005 .0061 ±.0005 .0062 ±.0005 .0063 ±.0005 .0064 ±.0005 .0065 ±.0005 .0066 ±.0005 .0067 ±.0005 .0068 ±.0005 .0069 ±.0005 .0070 ±.0005 .0071 ±.0005 .0072 ±.0005 .0073 ±.0005 .0074 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±.0005 .0999 ±.0005 1.0000 ±.0005 1.0001 ±.0005 1.0002 ±.0005 1.0003 ±.0005 1.0004 ±.0005 1.0005 ±.0005 1.0006 ±.0005 1.0007 ±.0005 1.0008 ±.0005 1.0009 ±.0005 1.0010 ±.0005 1.0011 ±.0005 1.0012 ±.0005 1.0013 ±.0005 1.0014 ±.0005 1.																			



1	-	-	404-0083-003	CONTACT BLOCK	1
1	-	-	404-7001-009	SWITCH, 2 POS ROTARY LEVER	15
1	-	-	404-4161-010	EMERG. STOP MOUNT. FLG.	14
3	3	3	110-0062-001	LOCKWASHER, INT. M4	13
3	3	3	108-5002-002	BHSCS, M4 X 0.7 P X 10 LG	12
1	1	1	603-0521-008	HANDLE	11
1	1	1	423-6209-001	HARNESS, FUSE IN-LINE, 4A	10
1	1	1	801-0816-001	OPTION PANEL, SMART GA.	9
-	1	-	001-1408-006	SMART GA. DRIVE ASSY, DOWN ACTING	8
1	-	1	001-1408-005	SMART GA. DRIVE ASSY, UP ACTING	7
8	8	8	123-0001-008	#10 X 1/2" LG SELF TAPPING SCREW	6
2	2	2	409-1001-086	FUSE, 4A SLO-BLO	5
1	1	1	423-6221-002	HARNESS, OPT. PNL. PERIPHERAL	4
1	-	-	423-6223-001	HARNESS, OPT. PNL. W/SW	3
-	1	1	423-6222-001	HARNESS, OPT. PNL. SMART GA. M.T.E.	
1	1	1	406-5001-012	TIE MOUNT, BAR LOCK	
2	2	2	406-5001-006	TIE WRAP, MEDIUM	1
QTY.	QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
-006	-005	-004		PARTS LIST	

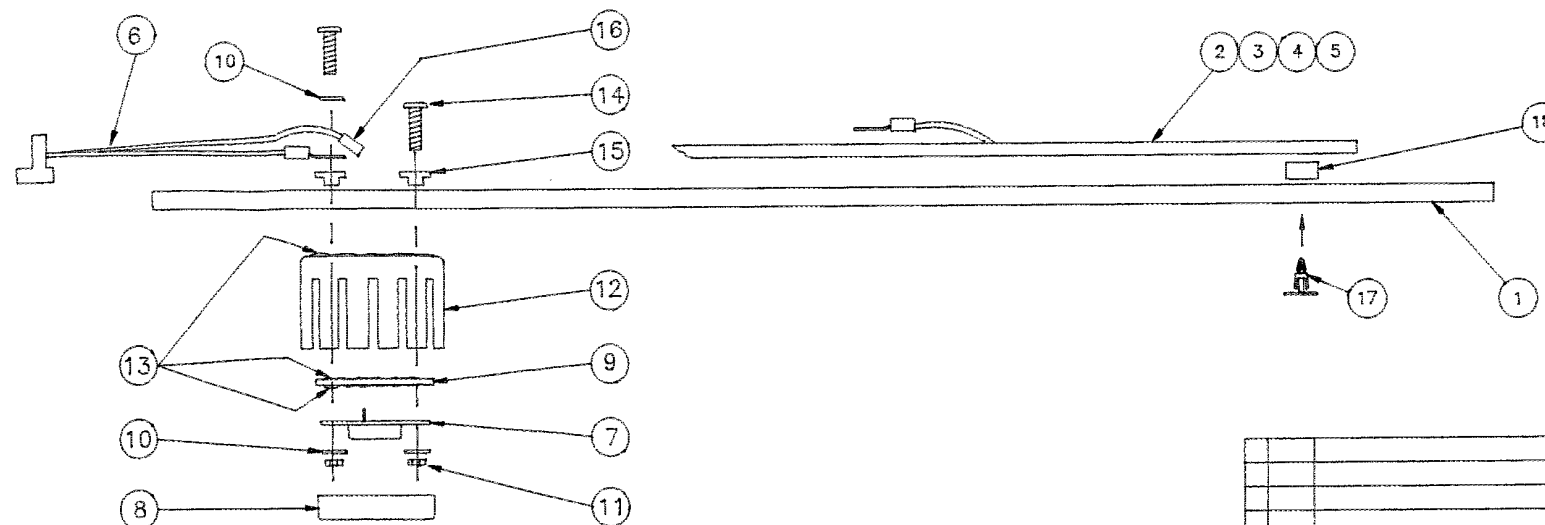
NOTE:
-004 UP-ACTING
-005 DOWN-ACTING
-006 UP-ACTING W/SW

										PARTS LIST									
										SURFACE TREATMENT  EXCEPT AS NOTED ALL DIMENSIONS IN UNLESS TELETYPE DECODAL  HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.									
										HEAT TREATMENT  DESCRIPTION OPTION PANEL, 2 AXIS UP/DOWN ACTING									
C 12277 ADDED VIEW FROM BACK OF ACTUATOR										DRAWN DATE CHECKED DATE APPROVED DATE S.HOGAN 12-14-69 S.HOGAN 12-14-69									
B 12127 REVISED & REDRAWN TO CAD										PART USED ON SCALE NONE SIZE DRAWING 001-1503-004 THIRD ANGLE PROJECTION UNIT OF MEAS. EA. D 001-1503-004 REV. 1									
NEW PART NO. REVISION DESCRIPTION										NEW PART NO. DATE OF CHANGE BY NEW PART NO. DATE OF CHANGE BY									



NOTES:

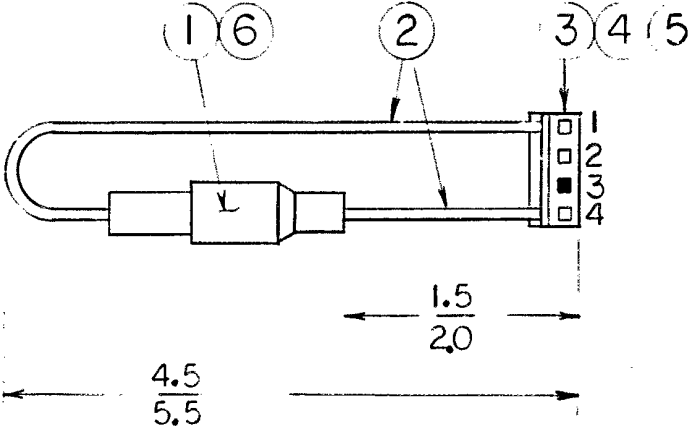
- SOLDER CABLE ORANGE AND WHITE LEADS AS SHOWN ABOVE AND THEN SHRINK FIT OVER SOLDER JOINT.
- ENSURE ITEM 13 THERMAL COMPOUND IS APPLIED PER VIEW AT LEFT TO THE SHOWN AREAS.
- 004 ASSEMBLY IS FOR S6, S7 AND S8 GAUGE DRIVES
-005 ASSEMBLY IS FOR 2ND AXIS UPACTING OPTIONS
-006 ASSEMBLY IS FOR 2ND AXIS DOWNACTING OPTIONS
-007 ASSEMBLY IS FOR 2ND AXIS M-STOP SMALL AND LARGE DC DRIVE OPTIONS
- USE ITEM #18 IN CONJUNCTION WITH ITEM #17 FOR ADDITIONAL SUPPORT.



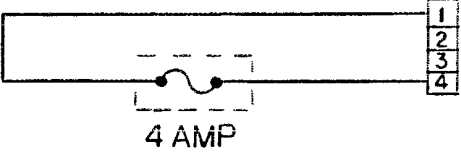
6	6	6	6	110-0129-007	SPACER, .266 ID, .5 OD, 1/4" LG	19
6	6	6	6	421-0001-032	STANDOFF, PCB MOUNT PLASTIC	17
2"	2"	2"	2"	406-6481-002	HEATSHRINK, 1/8"	16
2	2	2	2	406-1021-025	WASHER, #4 NYLON SHOULDER	15
2	2	2	2	109-5008-007	PHMS, M3 X 12	14
REF	REF	REF	REF	702-0005-001	HEATSINK COMPOUND	13
1	1	1	1	420-0002-007	HEATSINK, TO-3	12
2	2	2	2	117-5003-001	HEXNUT, M3	11
3	3	3	3	110-0082-001	LOCKWASHER, #4 INT TOOTH	10
1	1	1	1	406-1021-015	INSULATOR, TO-3 MYLAR	9
1	1	1	1	406-1021-018	COVER, IC INSULATING	8
1	1	1	1	417-0003-019	LM338K REGULATOR	7
1	1	1	1	423-0124-001	HARNES, MOSFET DRIVE REGULATOR	6
1	-	-	-	415-0242-004	PCB, SMART GAUGE DRIVE II M-STOP	5
-	1	-	-	415-0242-003	PCB, SMART GAUGE DRIVE II DOWNACTING	4
-	-	1	-	415-0242-002	PCB, SMART GAUGE DRIVE II UPACTING	3
-	-	-	1	415-0242-001	PCB, SMART GAUGE DRIVE II GAUGE	2
1	1	1	1	801-0844-001	COVER, MOSFET GAUGE ENCLOSURE	1
-007	-006	-005	-004	PART NUMBER	ITEM DESCRIPTION	ITEM
M-STOP	DWN	2ND	GAUGE			

SURFACE TREATMENT				EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL				HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.			
HEAT TREATMENT				DESCRIPTION				ASSY, SMART GAUGE DRIVE II			
FIRST USED ON				THIRD ANGLE PROJECTION				SCALE NONE			
001-1450-001				UNIT OF MEAS PC				D			
C 10912 ADDED ITEM 18				B 10693 ADD -007 ASSEMBLY				A 10608 ORIGINAL ISSUE			
REV				DATE				BY			

CN
AB013

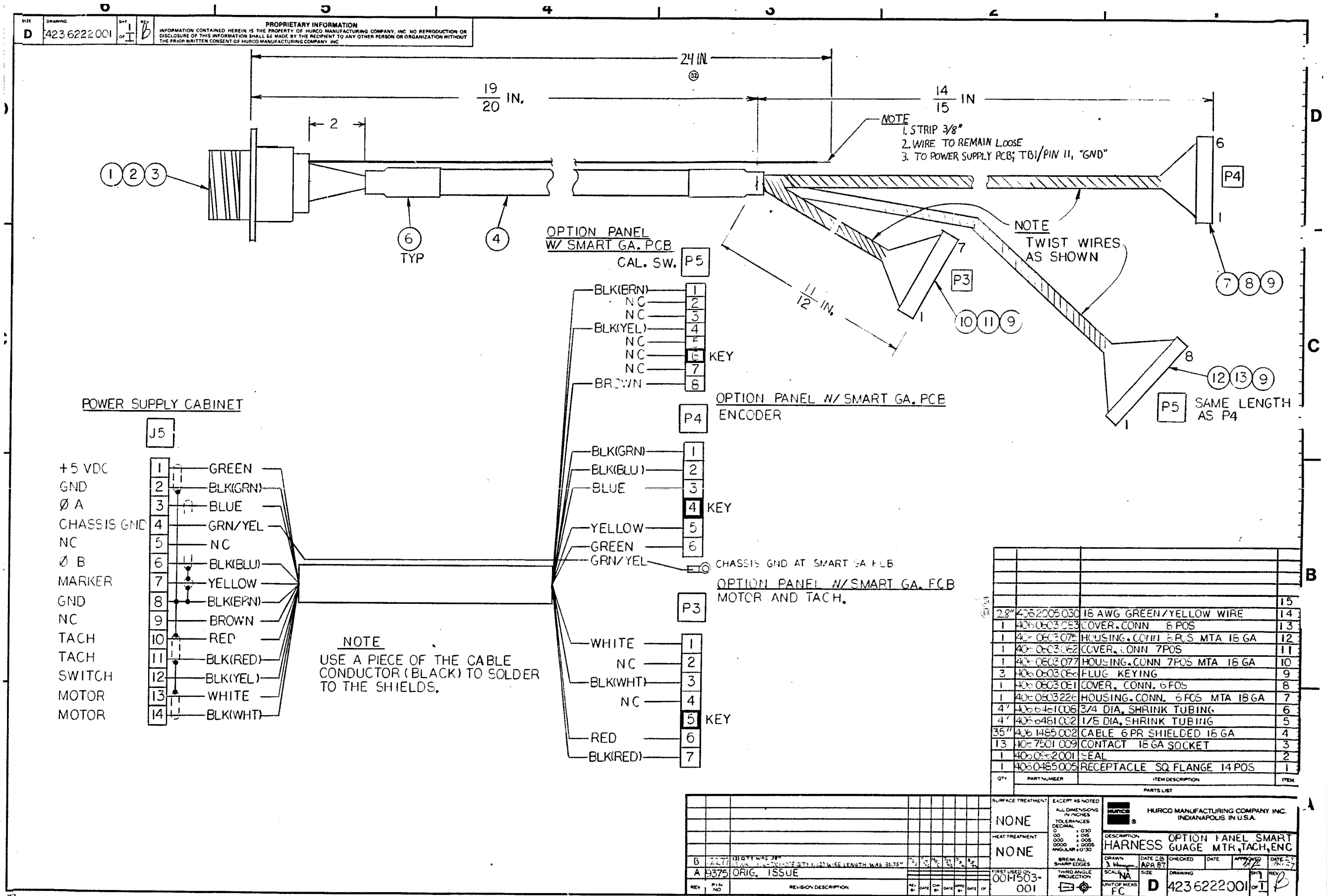


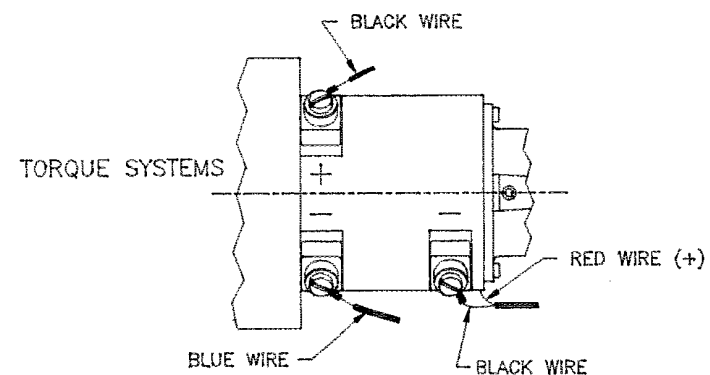
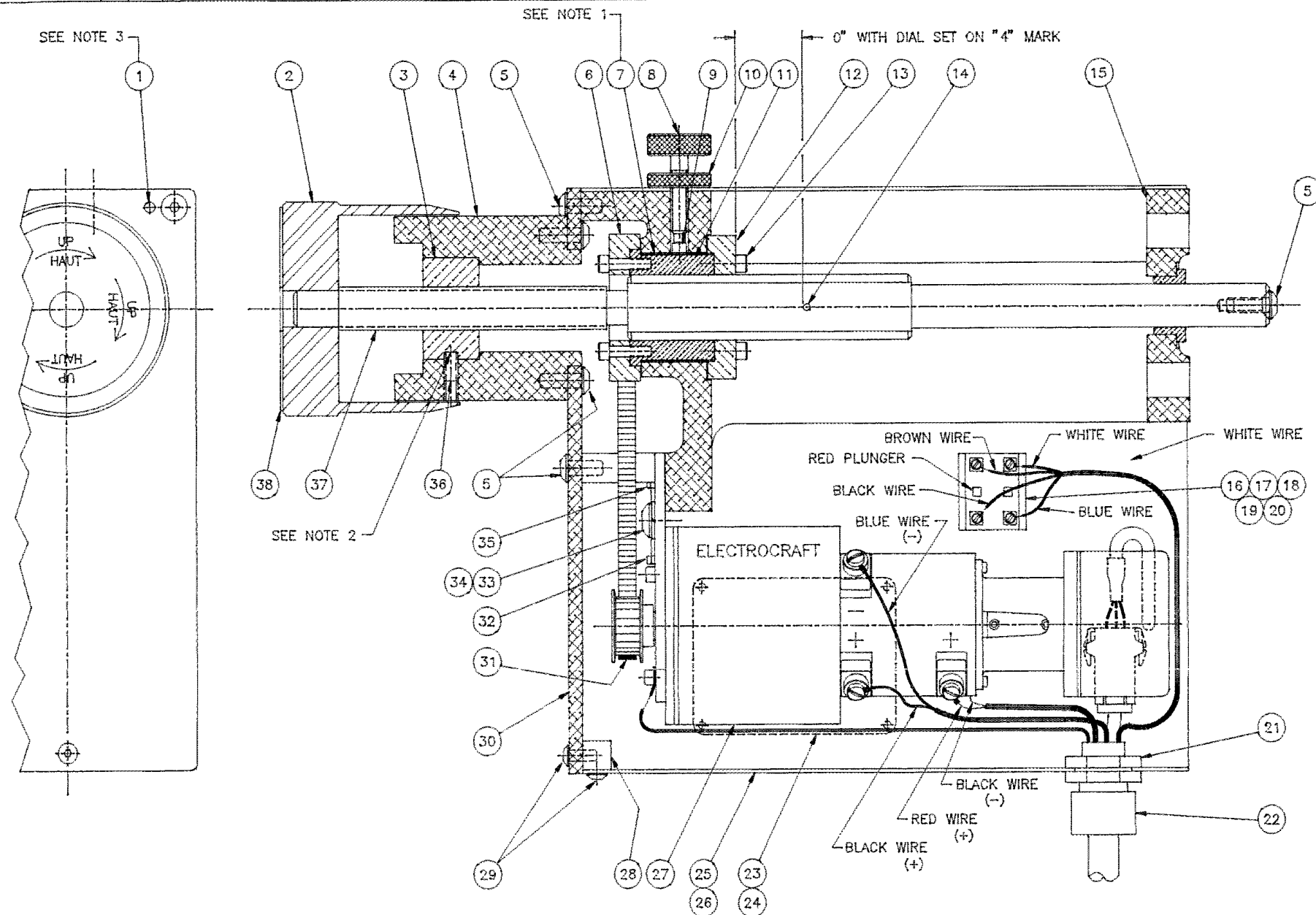
NOTE = REFER TO AMP
CATALOG NO.4507-1
PAGE A-305 FOR
ASSEMBLY PROCEDURES



QTY	PART NUMBER	ITEM DESCRIPTION	ITEM
1	4091001066	FUSE, 4A SLOW BLOW, 3 AS	6
1	4060403066	KEYING PLUG	5
1	4060803104	COVER, MTA, 156, 4 POS	4
1	4060803224	HOUSING, CONN, 4 POS	3
8'	4061663002	18 AWG RED WIRE B# 9910-2	2
1	4092001033	FUSE HOLDER, IN-LINE	1

SURFACE TREATMENT										EXCEPT AS NOTED									
NONE										ALL DIMENSIONS IN INCHES									
										TOLERANCES									
										DECIMAL									
										.030									
										.005									
										.0005									
										.0001									
										ANGULAR ± .010									
										BREAK ALL UNNOTED									
A 8250 ORIG ISSUE										DATE 10/23/87									
001-1426-002										DRAWN BY J. H. H. 1									
										PC B 423 6209 001 1 A									

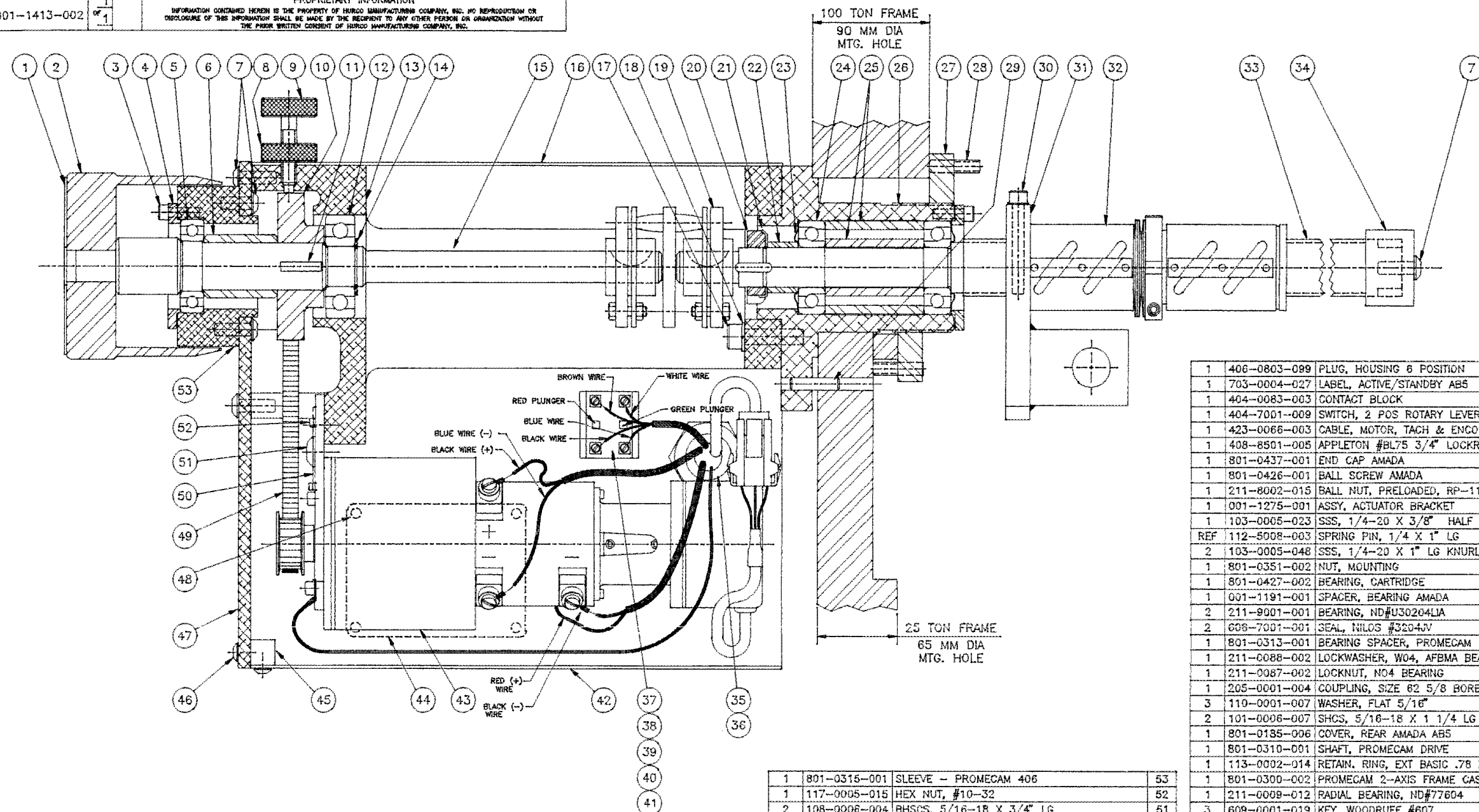




- NOTES:
1. CLEAN BORE OF CASTING. USE EASTMAN 910 (4 DROPS). SPREAD ON ETCHED SIDE OF BEARING. LINE UP CLAMP HOLE--INSERT ITEM 11. FORCE BEARING AGAINST CASTING. (TRIM EDGES IF PROTRUDING)
 2. SET SCREW MUST BE ON FLAT OF ITEM (2). 70 IN. LB. TORQUE.
 3. AFTER CYCLE, DRILL .18 DIA X .9 DEEP, AT PILOT HOLE TO INSERT 3/16 DIA SPRING PIN (ITEM 1), 2 PLACES.

1	703-0003-006	PROMECAM DIAL LABEL, L.H.	38
1	801-0182-003	DRIVE SCREW-L.H. LONG	37
1	103-0005-027	SSS, 1/4-20 X 1/2 LG KNURL CUT PT.	36
1	117-0005-015	NUT, HEX, #10-32	35
1	110-0001-007	WASHER, FLAT 5/16"	34
2	108-0006-004	BHSCS, 5/16-18 X 3/4 LG	33
1	105-0084-007	HHCS, #10-32 X 1 1/4 LG	32
1	204-0002-002	BELT, TIMING, 170XL037	31
1	801-0180-002	COVER, END PROMECAM 2-AXIS	30
11	108-0084-003	BHSCS, #10-32 X 1/2 LG	29
1	801-0237-001	SUPPORT, COVER 2-AXIS PROMECAM	28
1	001-1126-012	M.T.E. ASSY, PROMECAM 2-AXIS	27
1	801-0185-007	COVER, REAR PROMECAM AB5	26
1	801-0184-006	COVER, FRONT PROMECAM AB5	25
4	111-0241-001	RIVET, #AD-32-ABS SCOVIL	24
1	703-1001-053	LABEL, INF. VERTICAL AXIS CONTROL	23
1	423-0066-003	CABLE, MOTOR, TACH, ENCODER	22
1	408-8501-005	APPLETON, #BL75 3/4" LOCKRING	21
1	703-0004-027	LABEL, ACTIVE/STANDBY AB5	20
1	406-0803-099	PLUG, HOUSING 6 POSITION	19
1	404-4161-010	FLANGE, EMERGENCY STOP MOUNTING	18
1	404-0083-003	BLOCK, CONTACT	17
1	404-7001-009	SWITCH, 2 POS ROTARY LEVER	16
1	801-0300-001	FRAME, CASTING PROMECAM 2-AXIS	15
1	112-5004-015	SPRING PIN, 1/8 X 1 1/2 LG	14
8	101-0084-004	SHCS, #10-32 X 3/4 LG	13
1	801-0166-001	DRIVER, 2-AXIS PROMECAM	12
1	801-0162-001	SPACER, DRIVE PROMECAM	11
1	604-0001-003	MCS-312 SCREW CHECK NUT	10
1	801-0169-001	BRAKE, 2-AXIS PROMECAM	9
1	604-0001-004	SCREW, VLIER #AHS-312A	8
1	801-0264-001	PROMECAM BUSHING 2-AXIS	7
1	801-0163-001	PULLEY, DRIVEN, 2-AXIS PROMECAM	6
6	108-0005-004	BHSCS, 1/4-20 X 3/4 LG	5
1	801-0208-001	VERNIER, 2-AXIS PROMECAM	4
1	801-0183-002	LEFT HAND BRONZE NUT 2-AXIS	3
1	801-0223-003	PROMECAM DIAL 2-AXIS	2
2	112-5008-005	SPRING PIN, 3/16 DIA X 3/4 LG	1
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM

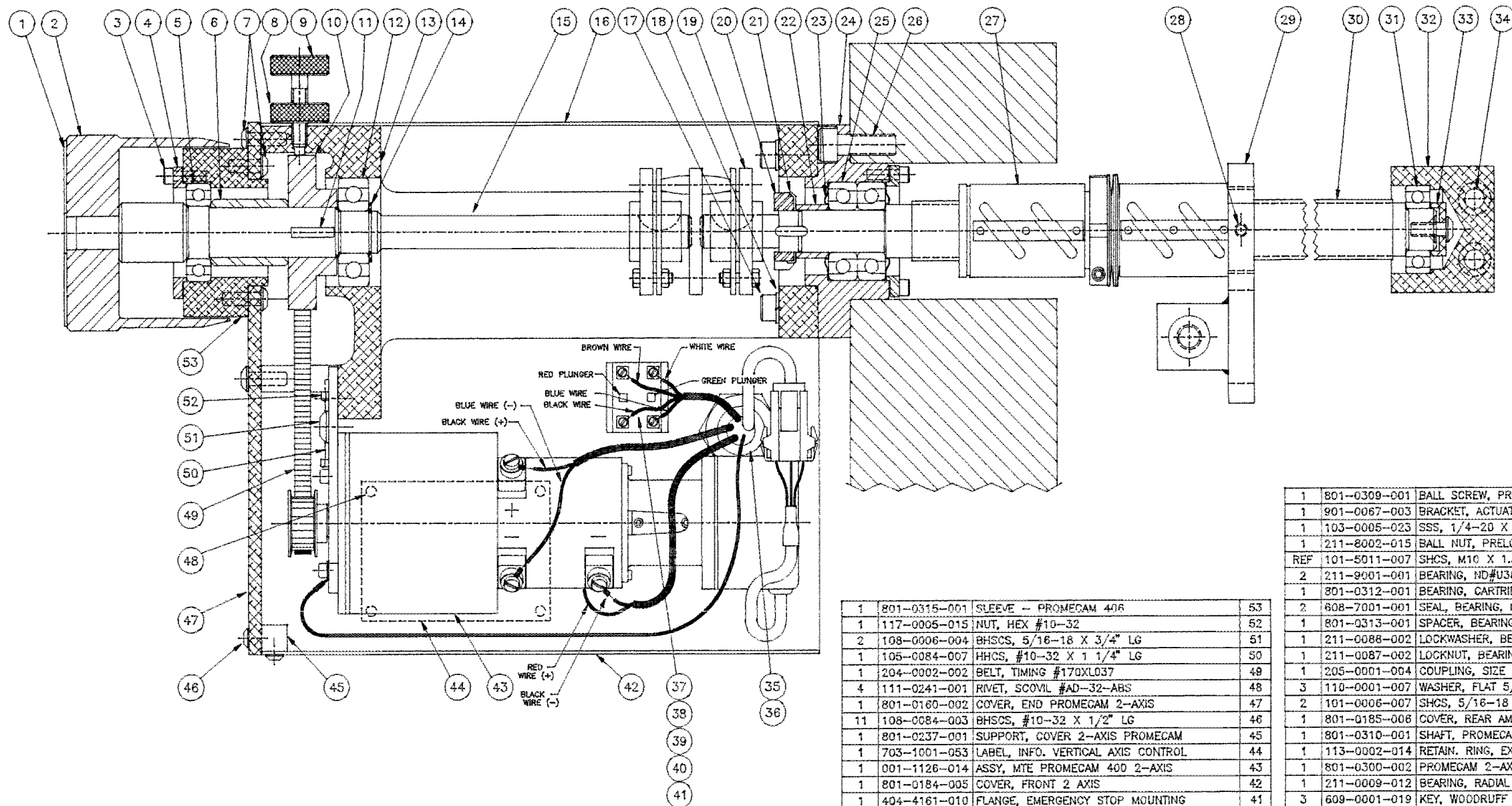
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1	801-0315-001	SLEEVE -- PROMECAM 406	53
1	117-0005-015	HEX NUT, #10-32	52
2	108-0006-004	BHSCS, 5/16-18 X 3/4" LG	51
1	105-0084-008	HHCS, #10-32 X 1 1/2" LG	50
1	204-0002-004	BELT, TIMING #190XL037	49
4	111-0241-001	RIVET, #A0-32-ABS SCOVIL	48
1	801-0160-002	COVER, END -- PROMECAM 2 AXIS	47
11	108-0084-003	BHSCS, #10-32 X 1/2" LG	46
1	801-0237-001	SUPPORT, COVER -- 2 AXIS PROMECAM	45
1	703-1001-053	LABEL, INFO. VERTICAL AXIS CONTROL	44
1	001-1126-013	ASSY, MTE AMADA 2-AXIS	43
1	801-0184-005	COVER, FRONT 2 AXIS	42
1	404-4161-010	FLANGE, EMERGENCY STOP MOUNTING	41
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
		PARTS LIST	

1	406-0803-089	PLUG, HOUSING 6 POSITION	36
1	703-0004-027	LABEL, ACTIVE/STANDBY ABS	35
1	404-0083-003	CONTACT BLOCK	38
1	404-7001-009	SWITCH, 2 POS ROTARY LEVER	37
1	423-0066-003	CABLE, MOTOR, TACH & ENCODER	36
1	408-8501-005	APPLETON #BL75 3/4" LOCKRING	35
1	801-0437-001	END CAP AMADA	34
1	801-0426-001	BALL SCREW AMADA	33
1	211-8002-015	BALL NUT, PRELOADED, RP-1105	32
1	001-1275-001	ASSY, ACTUATOR BRACKET	31
1	103-0065-023	SSS, 1/4-20 X 3/8" HALF DOG BRASS PT.	30
REF	112-5008-003	SPRING PIN, 1/4 X 1" LG	29
2	103-0005-048	SSS, 1/4-20 X 1" LG KNURL CUP PT	28
1	801-0351-002	NUT, MOUNTING	27
1	801-0427-002	BEARING, CARTRIDGE	26
1	001-1191-001	SPACER, BEARING AMADA	25
2	211-9001-001	BEARING, ND#U30204LJA	24
2	608-7001-001	SEAL, NILOS #3204JV	23
1	801-0313-001	BEARING SPACER, PROMECAM 400	22
1	211-0088-002	LOCKWASHER, W04, AFBMA BEARING	21
1	211-0087-002	LOCKNUT, N04 BEARING	20
1	205-0001-004	COUPLING, SIZE 62 5/8 BORE 3/16 K	19
3	110-0001-007	WASHER, FLAT 5/16"	18
2	101-0006-007	SHCS, 5/16-18 X 1 1/4 LG	17
1	801-0185-006	COVER, REAR AMADA A85	16
1	801-0310-001	SHAFT, PROMECAM DRIVE	15
1	113-0002-014	RETAIN. RING, EXT BASIC .78 DIA	14
1	801-0300-002	PROMECAM 2-AXIS FRAME CASTING	13
1	211-0009-012	RADIAL BEARING, ND#77604	12
3	609-0001-019	KEY, WOODRUFF #607	11
1	208-0002-008	SPROCKET 48XL037	10
1	604-0091-004	SCREW, VILER #AHS-312A	9
1	604-0001-003	MCS-312 SCREW CHECK NUT	8
6	108-0005-004	BHSCS, 1/4-20 X 3/4 LG	7
1	801-0327-001	SPACER	6
1	211-0009-013	BEARING, ND#773L05	5
2	801-0326-001	RETAINER, BEARING	4
6	101-0084-003	SHCS, #10-32 X 5/8 LG	3
1	801-0223-003	DIAL	2
1	703-0003-006	LABEL, L.H.	1
QTY.	PART NUMBER	ITEM DESCRIPTION	REV.
		PARTS LIST	

SURFACE TREATMENT 	EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .00 .00100 .01 .00150 .050 .00050 .0000 .00005 ANGULAR .0100° BREAK ALL SHARP EDGES		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.
HEAT TREATMENT 		DESCRIPTION ASSY, AMADA DRIVE S.HOGAN	DATE 5-28-87 CHECKED DATE APPROVED JRB DATE 5-23-87
FIRST USED ON ABCS	THIRD ANGLE PROJECTION 	SCALE 1=1 UNIT OF MEAS. IN EA	DRAWING 001-1413-002 SHEET 1 OF 1 REV.



QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	801-0315-001	SLEEVE -- PROMECAM 400	53
1	117-0005-015	NUT, HEX #10-32	52
2	108-0006-004	BHSCS, 5/16-18 X 3/4" LG	51
1	105-0084-007	HHCS, #10-32 X 1 1/4" LG	50
1	204-0002-002	BELT, TIMING #170XL037	49
4	111-0241-001	RIVET, SCOVIL #AD-32-ABS	48
1	801-0160-002	COVER, END PROMECAM 2-AXIS	47
11	108-0084-003	BHSCS, #10-32 X 1/2" LG	46
1	801-0237-001	SUPPORT, COVER 2-AXIS PROMECAM	45
1	703-1001-053	LABEL, INFO. VERTICAL AXIS CONTROL	44
1	001-1126-014	ASSY, MTE PROMECAM 400 2-AXIS	43
1	801-0184-005	COVER, FRONT 2 AXIS	42
1	404-4161-010	FLANGE, EMERGENCY STOP MOUNTING	41
1	406-0803-099	PLUG, HOUSING 6 POSITION	40
1	703-0004-027	LABEL, ACTIVE/STANDBY ABS	39
1	404-0083-003	CONTACT BLOCK	38
1	404-7001-009	SWITCH, 2 POS. ROTARY LEVER	37
1	423-0066-003	CABLE, MOTOR, TACH, ENCODER	36
1	408-8501-005	APPLETON BL75 3/4" LOCKRING	35
REF	101-5011-017	SHCS, M10 X 1.5 P X 75 LG	34
1	801-0348-001	END CAP 2 AXIS	33
1	801-0311-001	HOUSING, BEARING, PROMECAM	32
1	211-0009-011	RADIAL BEARING ND 773L04	31
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM

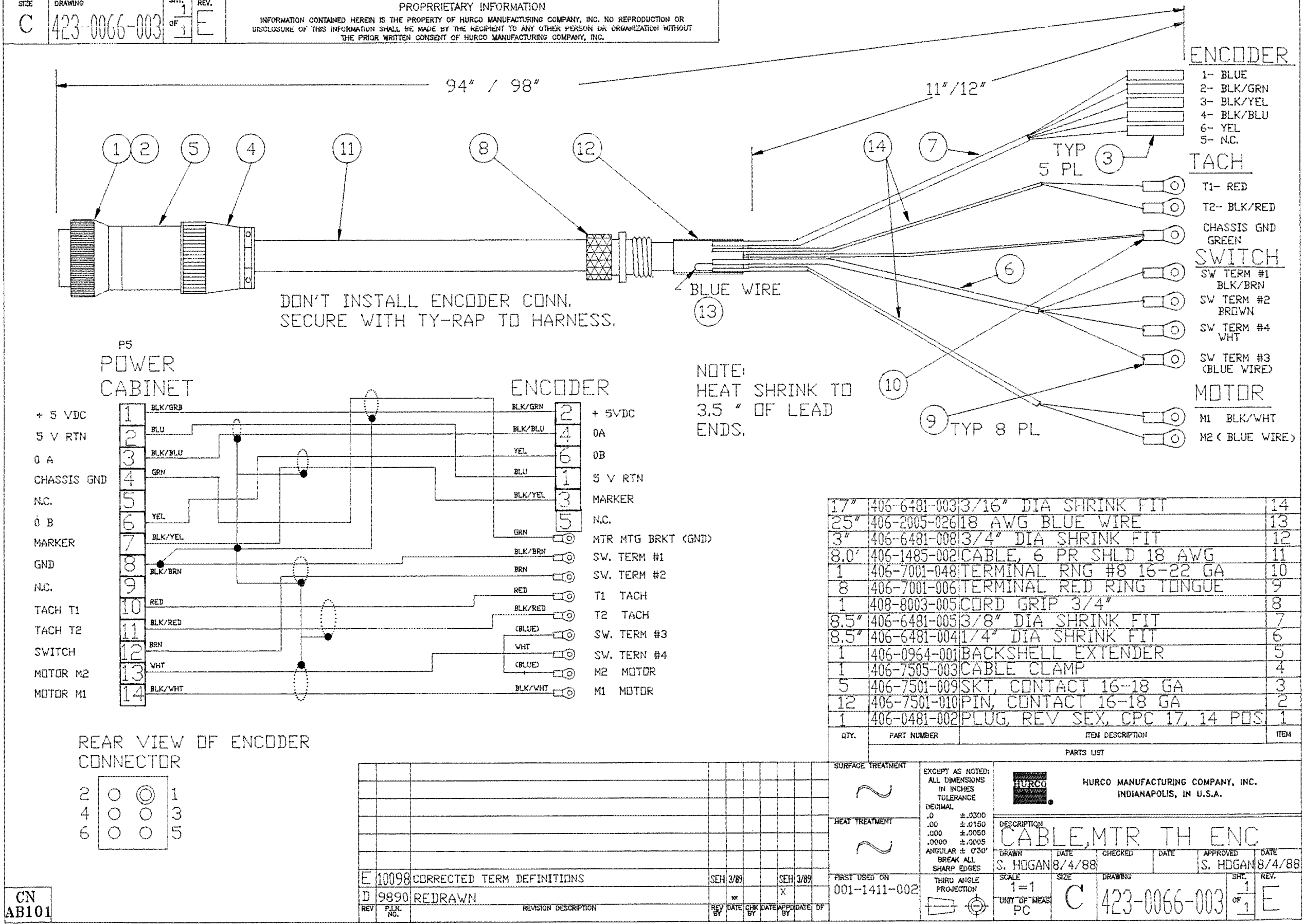
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	801-0309-001	BALL SCREW, PROMECAM 400 SERIES	30
1	901-0067-003	BRACKET, ACTUATOR PROMECAM 400	29
1	103-0005-023	SSS, 1/4-20 X 3/8 LG HALF DOG BRASS	28
1	211-8002-015	BALL NUT, PRELOADED RP-1105	27
REF	101-5011-007	SHCS, M10 X 1.5 P X 25 LG	26
2	211-9001-001	BEARING, ND#U30204LIA	25
1	801-0312-001	BEARING, CARTRIDGE PROMECAM	24
2	808-7001-001	SEAL, BEARING, NILOS #3204JV	23
1	801-0313-001	SPACER, BEARING PROMECAM 400	22
1	211-0088-002	LOCKWASHER, BEARING W04 AFBMA	21
1	211-0087-002	LOCKNUT, BEARING N04	20
1	205-0001-004	COUPLING, SIZE 62 5/8" BORE 3/16 K	19
3	110-0001-007	WASHER, FLAT 5/16"	18
2	101-0006-007	SHCS, 5/16-18 X 1 1/4 LG	17
1	801-0185-008	COVER, REAR AMADA ABS	16
1	801-0310-001	SHAFT, PROMECAM DRIVE	15
1	113-0002-014	RETAIN. RING, EXT BASIC .78 DIA	14
1	801-0300-002	PROMECAM 2-AXIS FRAME CASTING	13
1	211-0009-012	BEARING, RADIAL ND#77604	12
3	609-0001-019	KEY, WOODRUFF #607	11
1	208-0002-005	SPROCKET, TIMING BELT 40XL037	10
1	604-0001-004	SCREW, VILER #AHS-312A	9
1	604-0001-003	MCS-312 SCREW CHECK NUT	8
6	108-0005-004	BHSCS, 1/4-20 X 3/4 LG	7
1	801-0327-001	SPACER	6
1	211-0009-013	RADIAL BEARING N.D. 773L05	5
2	801-0326-001	RETAINER, BEARING	4
6	101-0084-003	SHCS, #10-32 X 5/8 LG	3
1	801-0223-003	PROMECAM DIAL 2-AXIS	2
1	703-0003-006	PROMECAM DIAL LABEL L.H.	1
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM

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AB075

B 12003 REDRAWN TO CAD

DATE 5-23-87 BY S.HOGAN

SURFACE TREATMENT	EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL +0.000 -0.000 +0.000 -0.000 ANGULAR ± 0.5° BREAK ALL SHARP EDGES	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.
HEAT TREATMENT	DESCRIPTION ASSY, PROMECAM 400 DRIVE	DATE 5-23-87 CHECKED JRB APPROVED JRB DATE 5-23-87
FIRST USED ON	SCALE 1=1	SIZE D
ABSC 001-1505-004	THIRD ANGLE PROJECTION	REV. 1

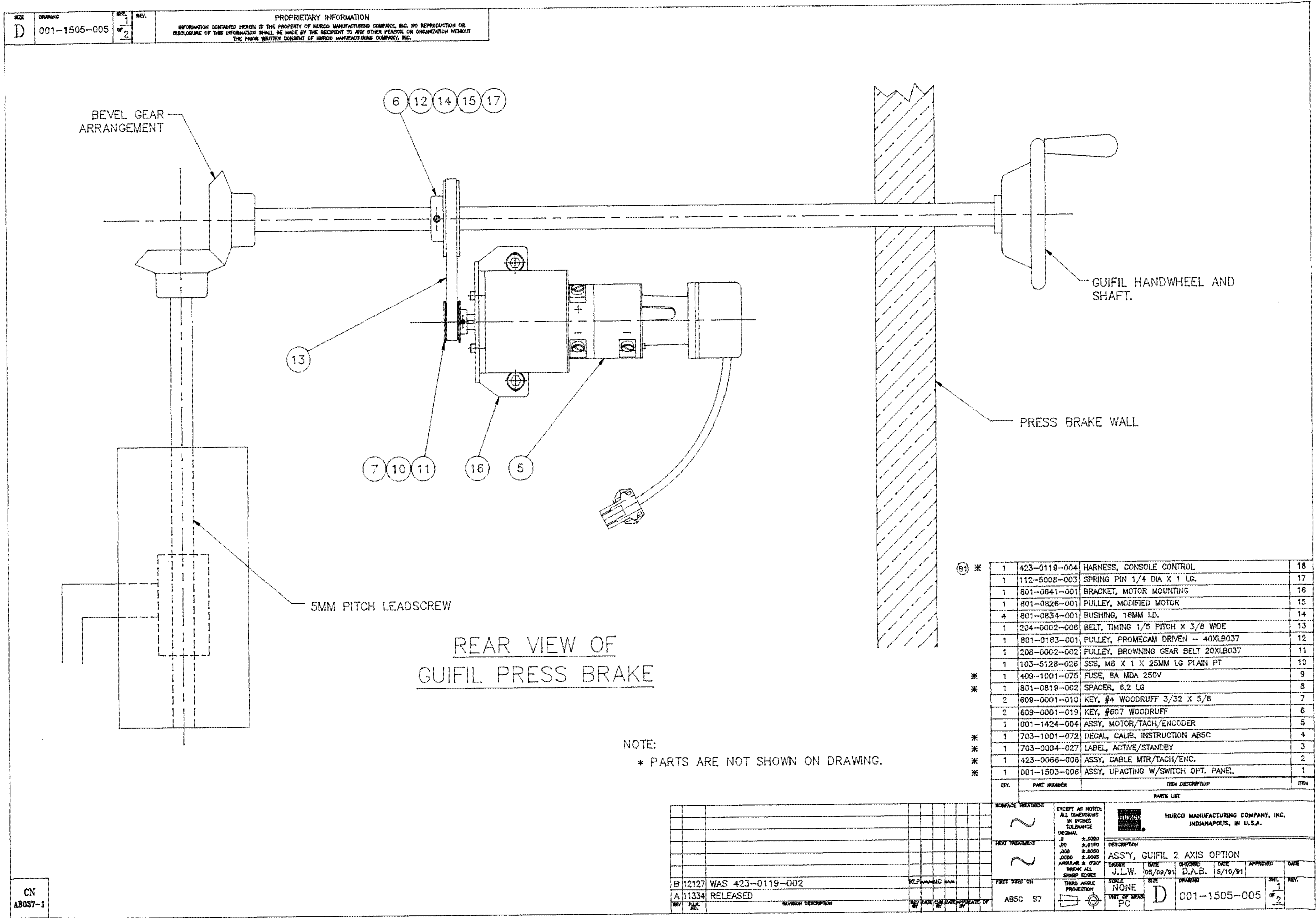


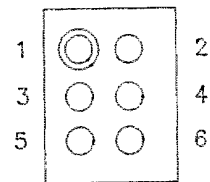
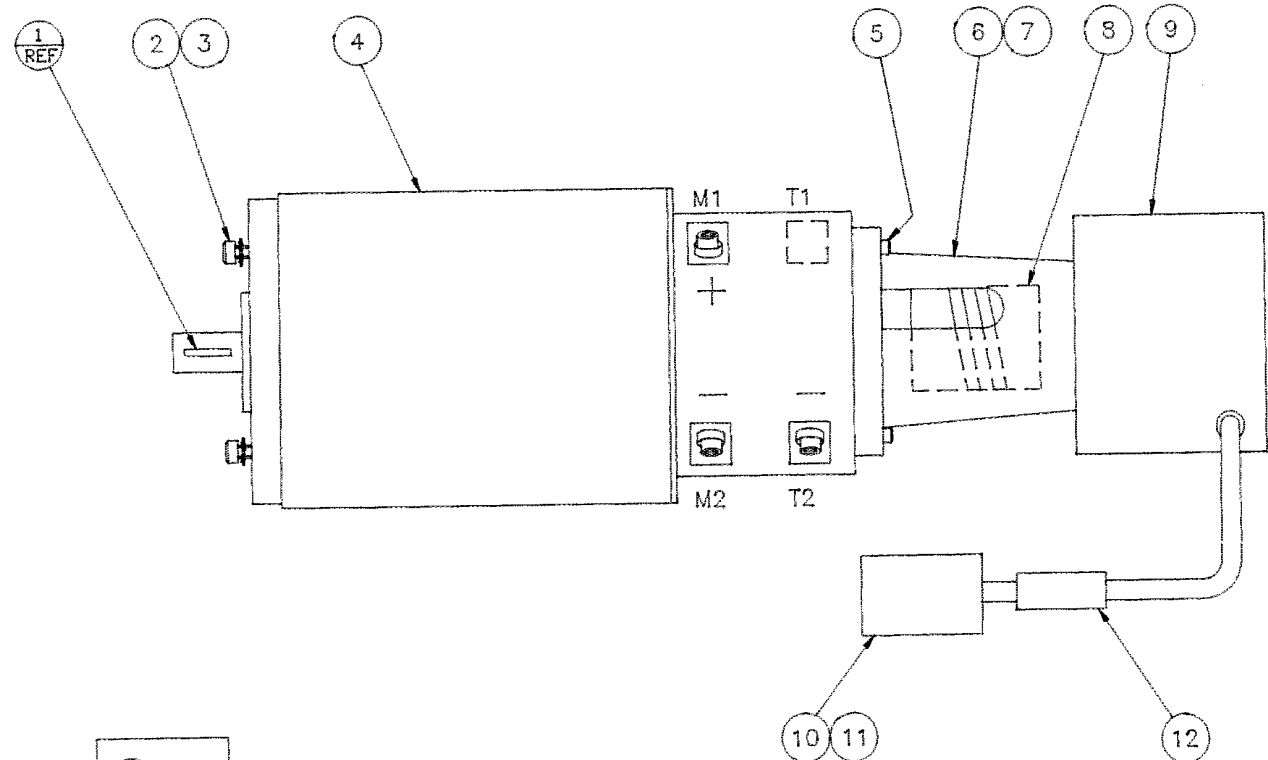
17"	406-6481-003	3/16" DIA SHRINK FIT	14
25"	406-2005-026	18 AWG BLUE WIRE	13
3"	406-6481-008	3/4" DIA SHRINK FIT	12
8.0'	406-1485-002	CABLE, 6 PR SHLD 18 AWG	11
1	406-7001-048	TERMINAL RNG #8 16-22 GA	10
8	406-7001-006	TERMINAL RED RING TONGUE	9
1	408-8003-005	CORD GRIP 3/4"	8
8.5"	406-6481-005	3/8" DIA SHRINK FIT	7
8.5"	406-6481-004	1/4" DIA SHRINK FIT	6
1	406-0964-001	BACKSHELL EXTENDER	5
1	406-7505-003	CABLE CLAMP	4
5	406-7501-009	SKT, CONTACT 16-18 GA	3
12	406-7501-010	PIN, CONTACT 16-18 GA	2
1	406-0481-002	PLUG, REV SEX, CPC 17, 14 POS	1
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM

SURFACE TREATMENT	EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± 0°30' BREAK ALL SHARP EDGES	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.
HEAT TREATMENT	DESCRIPTION CABLE, MTR TH ENC	
FIRST USED ON 001-1411-002	THIRD ANGLE PROJECTION	SCALE 1=1 UNIT OF MEAS PC
DRAWN S. HOGAN 8/4/88		CHECKED DATE
APPROVED S. HOGAN 8/4/88		DATE
SHT. 1 OF 1		REV. E

E 10098	CORRECTED TERM DEFINITIONS	SEH 3/89	SEH 3/89
D 9890	REDRAWN		
REV	P.I.N. NO.	REVISION DESCRIPTION	REV BY DATE CHK BY DATE APPR BY DATE OF

CN
AB101





VIEW OF ENCODER
CONNECTOR IS
FROM THE WIRING
SIDE

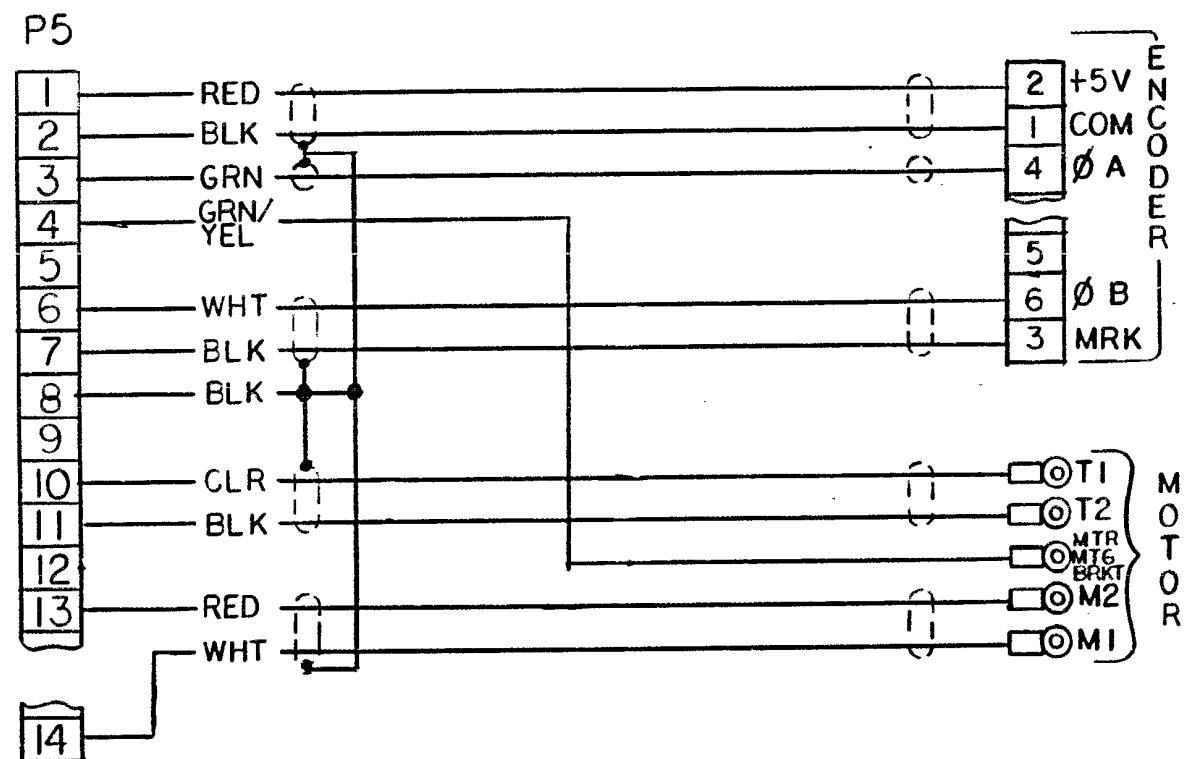
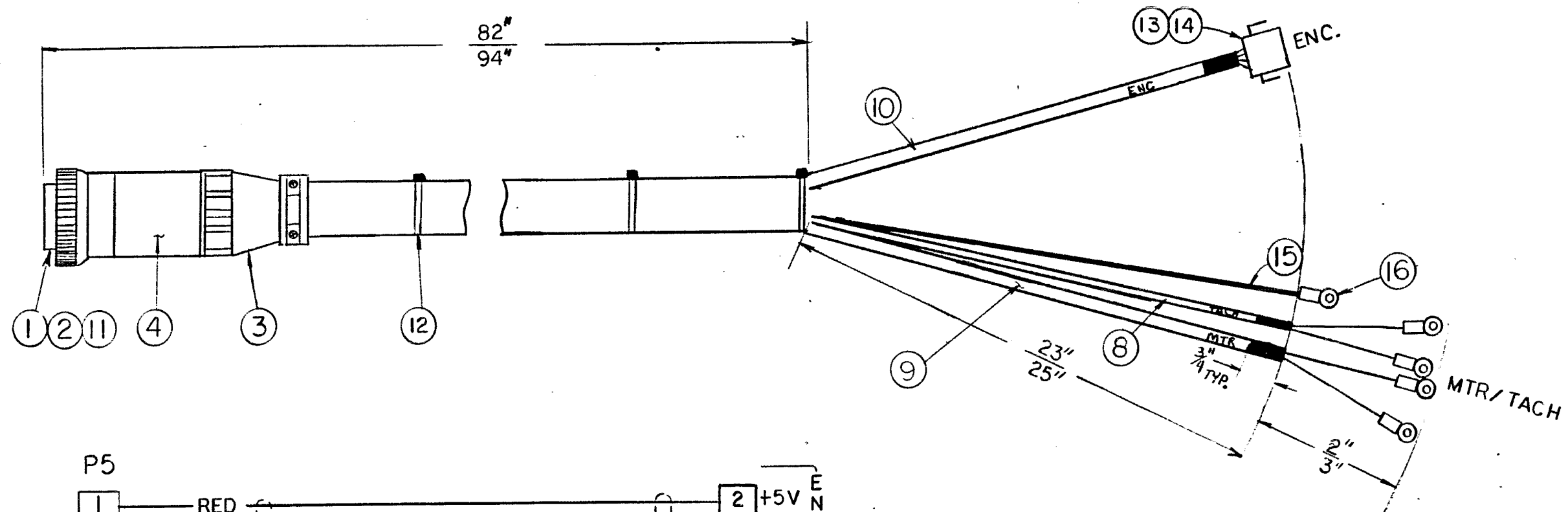
NOTE:
1. ENSURE ENCODER CABLE IS APPROXIMATELY 10 INCHES LONG. IF NOT, CUT CABLE TO THIS DIMENSION.

PIN NUMBER	HURCO SIGNAL	DATA-METRIC	LITTON	BEI
1	GROUND	BLK	BLK	BLK
2	+ 5 VDC	RED	RED	RED
3	MARKER	WHT/BLU	GRN	ORG
4	PHASE A	GRN	WHT	BLUE
5	CASE GRN			GRN
6	PHASE B	WHT	BLUE	YELLOW

FIELD SERVICE - USE ASSEMBLY BELOW:
ENCODER ASSY. (ITEMS 1 THRU 4)
001-1487-001

3"	406-8481-004	SHRINK SLEEVING, .25 DIA.	12
5	406-7501-028	PIN, 26 AWG TIN	11
1	406-0803-100	PLUG, 6 POS. CONNECTOR	10
1	416-0248-033	ENCODER, 200 LINE	9
1	205-0004-002	COUPLING, FLEX	8
4	101-0001-002	# 4 - 40 X .38 LG. SHCS	7
1	801-0651-001	BRACKET, ENCODER	6
2	101-0001-001	# 4 - 40 X .25 LG. SHCS	5
1	401-4002-002	ASSY, MOTOR / TACH	4
4	110-0082-003	# 8 LOCKWASHER (INT)	3
4	101-0003-004	# 8 - 32 X .62 LG SHCS	2
REF	609-0001-010	# 305 WOODRUFF KEY	1
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM

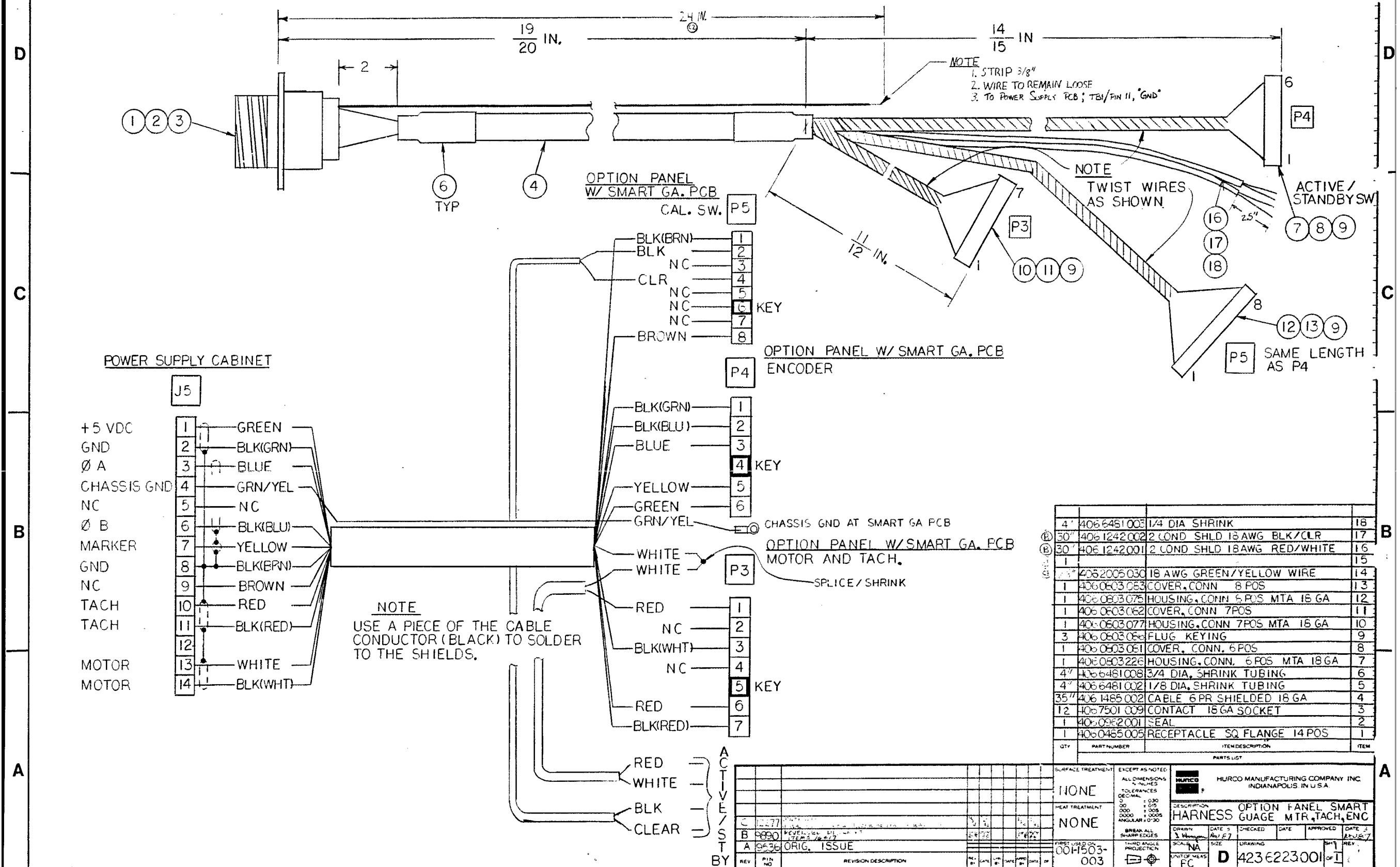
										SURFACE TREATMENT		EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE		 HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
										Z					
										HEAT TREATMENT		DECIMAL		DESCRIPTION	
										Z		.0000		ASSY, MOTOR / ENCODER - 200 LINE	
												.0000		DATE	
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												.0000		11/08/90	
												.0000		J.T.G.	
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1	406-7001-008	10 RING TERMINAL	16
126	406-2005-030	18 AWG GRN/YEL WIRE	15
5	406-7501-011	SOCKET CONTACT FEMALE	14
1	406-0803-099	CONNECTOR FEMALE 6 POS	13
10	406-5001-003	TIE WRAP SMALL	12
5	406-7501-012	PIN CONTACT, 20-24 GA.	11
119	406-1244-002	3 PR. SHLD. CABLE 22 AWG	10
126	406-1242-001	2 COND. SHLD. 18 AWG (RED/WHT)	9
126	406-1242-002	2 COND. SHLD. 18 AWG (BLK/CLR)	8
4	406-7001-006	RNG TNG TERMINAL RED	7
6	406-6481-006	1/2 D. SHRINK	6
5	406-6481-003	1/4 D. SHRINK	5
1	406-0964-001	BACKSHELL EXTENDER	4
1	406-7505-003	CABLE CLAMP	3
6	406-7501-010	PIN CONTACT, 18-16 GA	2
1	406-0481-002	PLUG REV SEX CPC 17 14 POS	1

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
------	-------------	------------------	------

SURFACE TREATMENT		EXCEPT AS NOTED	
NONE		ALL DIMENSIONS IN INCHES	
HEAT TREATMENT		TOLERANCES DECIMAL	
NONE		0 ± .030	
FIRST USED ON		00 ± .015	
001-1505-005		.000 ± .005	
		.0000 ± .0005	
		ANGULAR ± 0°30'	
		BREAK ALL SHARP EDGES	
		THIRD ANGLE PROJECTION	
		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
		DESCRIPTION MOTOR TACH ENCODER CABLE W/ ACTIVE/STDBY SW	
		DRAWN J. Hagan DATE 3 Nov 87	
		CHECKED DATE	
		APPROVED DATE 3 Nov 87	
		SCALE SIZE	
		DRAWING	
		UNIT OF MEAS. PC	
		C 423 0066 006 OF 1 C	



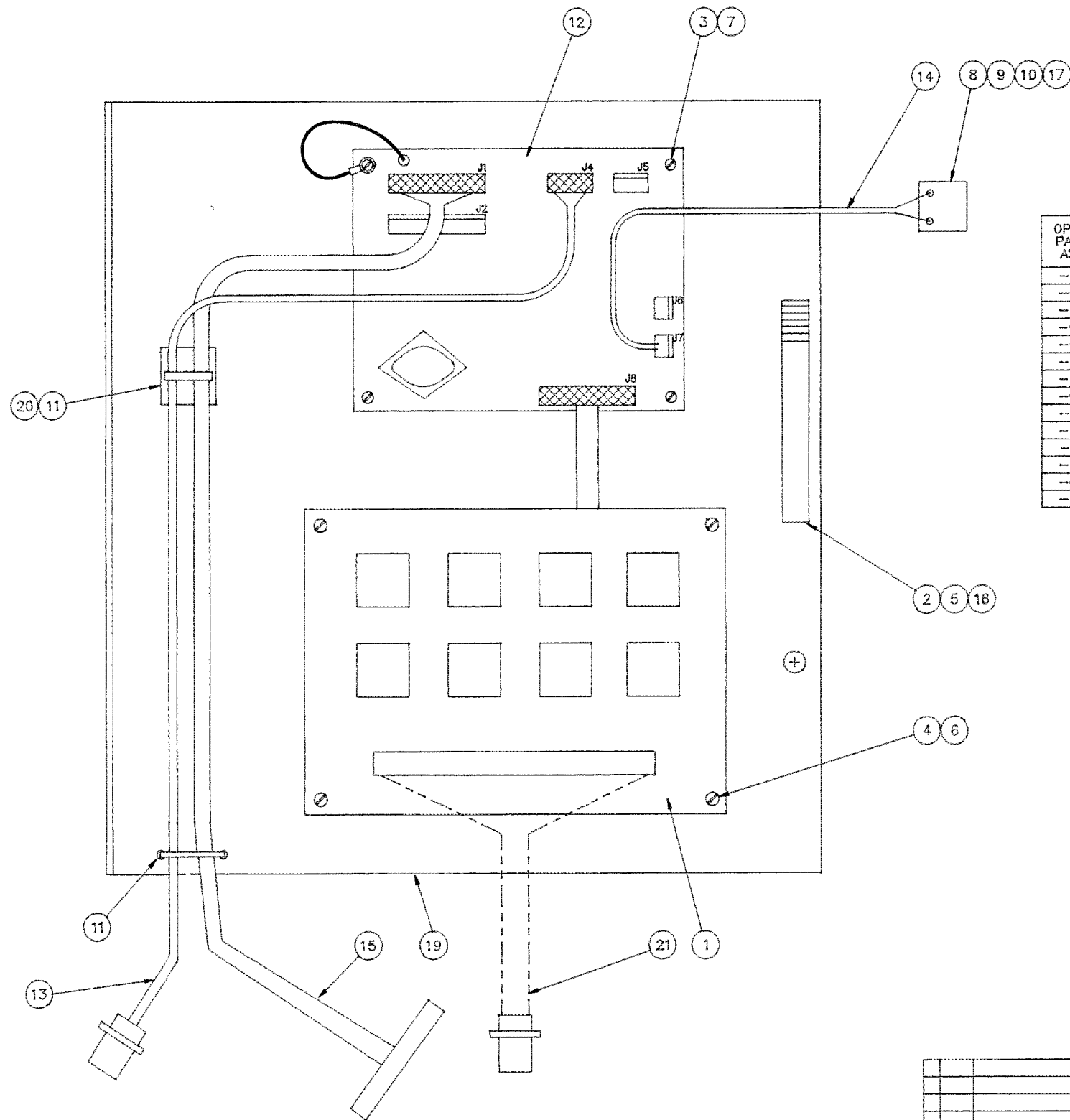


TABLE A

OPTION PANEL ASSY	DESCRIPTION	PART # FOR ITEM 1	PART # FOR ITEM 14	PART # FOR ITEM 21	PART # FOR ITEM 22
-001	STANDARD	415-0221-001	423-6094-001	N/R	703-1001-071
-002	LM DIACRO	001-1418-002	423-6094-001	N/R	N/R
-003	HM DIACRO	001-1418-003	423-6094-001	N/R	N/R
-004	AC MSTOP	001-1418-004	423-6094-001	N/R	N/R
-005	KOMATSU AC MSTOP	001-1418-005	423-6094-001	N/R	703-1001-084
-006	PACIFIC	415-0221-001	423-6094-001	N/R	703-1001-071
-007	WYSONG	001-1418-007	423-6094-001	423-6127-001	703-1001-087
-008	NIAGARA/STEELCASE	001-1418-001	423-6094-001	N/R	703-1001-071
-009	WYSONG	001-1418-008	423-6094-001	423-6127-002	703-1001-089
-010	NIAGARA	415-0221-001	423-6094-001	N/R	N/R
-011	WYSONG 150/90	001-1418-010	423-6094-001	423-6127-003	N/R
-012	HYD DIACRO 650 9115009	001-1418-011	423-6094-001	N/R	N/R
-013	HYD DIACRO 656 9115001	001-1418-012	423-6094-001	N/R	N/R
-015	CINCINNATI CB OEM	415-0221-001	423-6225-001	N/R	703-1001-071

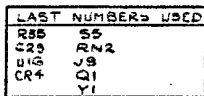
PLACE ON INSIDE OF
DOOR OF CABINET ASSY

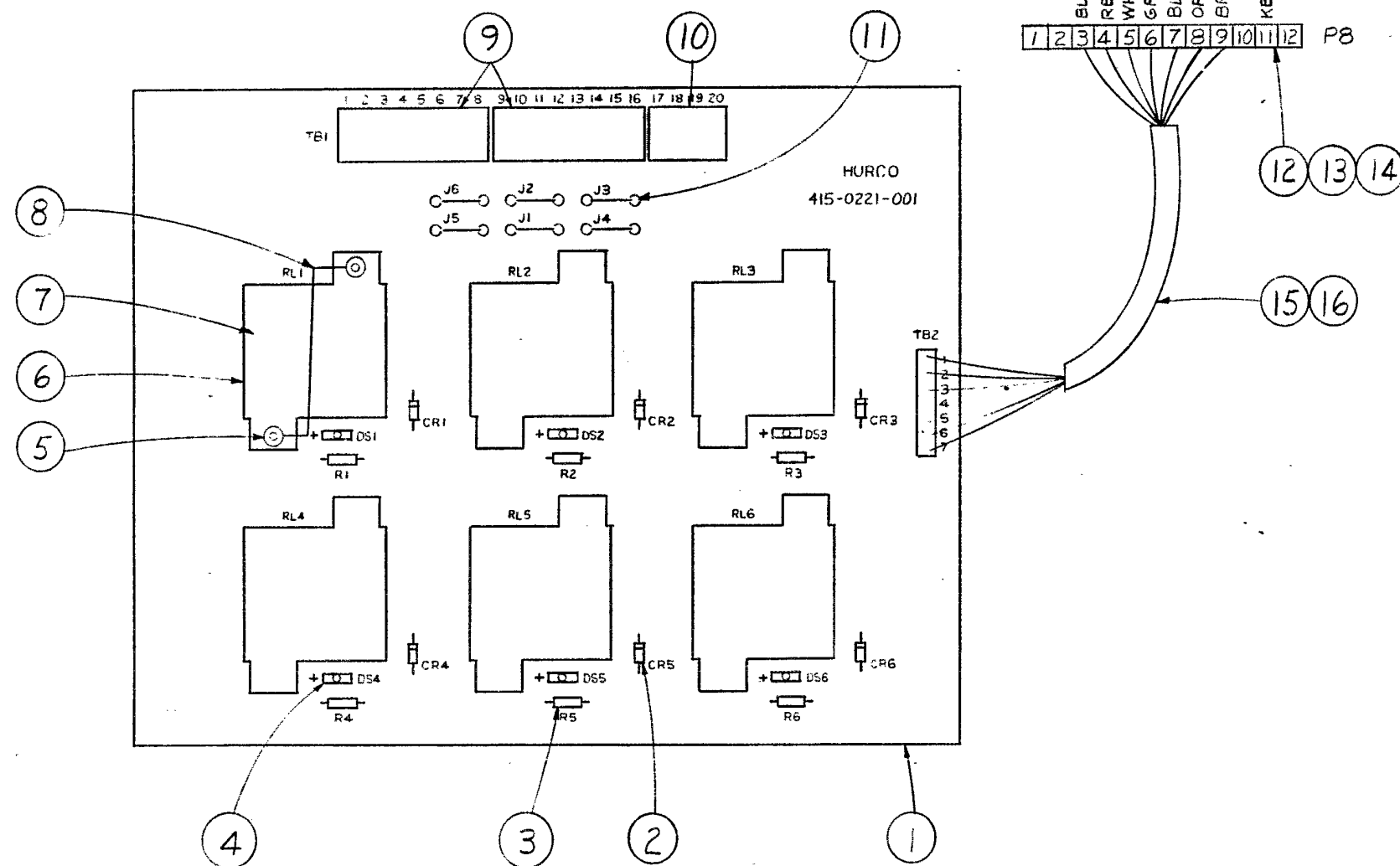
1	1	SEE TABLE A	LABEL, RELAY BOX	22
1	1	SEE TABLE A	HARNESS	21
1	1	406-8001-012	TIE MOUNT, BAR LOCK	20
1	1	801-0817-001	PANEL, OPT. HYD/M-STOP	19
1	1	708-0001-012	DRUM LINER, VELOSTAT 24 X 36	18
-	1	703-0004-027	LABEL-ACTIVE/STANDBY ABS	17
1	1	603-0521-008	HANDLE, BLACK	16
1	1	423-6220-002	HARNESS, PERIPH. 2 AXIS	15
1	1	SEE TABLE A	HARNESS, ACTIVE/STANDBY SWITCH	14
1	1	423-6093-001	HARNESS, HYD. ENCODER	13
1	1	415-0121-001	PCB, SMART HYD M-STOP	12
2	2	406-8001-006	TIE WRAP, MEDIUM	11
-	1	404-7001-011	CONTACT BLOCK, 1 N.O. CONTACT	10
-	1	404-7001-009	SWITCH, 2 POS ROTARY LEVER	9
-	1	404-4161-010	FLANGE, EMERGENCY STOP MOUNT'G	8
4	4	110-0140-006	STANDOFF, M4-10	7
4	4	110-0140-001	STANDOFF, M5 X 40MM HEX	6
3	3	110-0062-001	LOCKWASHER, #4 INTERNAL	5
4	4	109-5011-003	PHMS, M5 X 0.8 P X 10 LG	4
4	4	109-5010-001	PHMS, M4 X 0.7 P X 6 LG	3
3	3	108-5002-002	BHSCS, M4 X 0.7 P X 10 LG	2
1	1	SEE TABLE A	RELAY PANEL ASSY	1
QTY. -015	QTY. 601 THRU 013	PART NUMBER	ITEM DESCRIPTION	ITEM

PARTS LIST

SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCES DECIMAL 0 ±.000 .001 ±.010 .002 ±.005 0.003 ±.005 ANGULAR ±.030° BREAK ALL SHARP EDGES		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT		DESCRIPTION ASSY, OPT. PANEL, 2 AXIS		DATE 22MAY92	
FIRST USED ON		D.A.B.		M.F.C.	
AB5C W/188		SCALE NONE		DATE 26MAY92	
REV		UNIT OF MEAS PC		APPROVED DATE	
J 12127		D		REV. 1 1	
REV		PC		001-1504-XXX	

CN
AB091



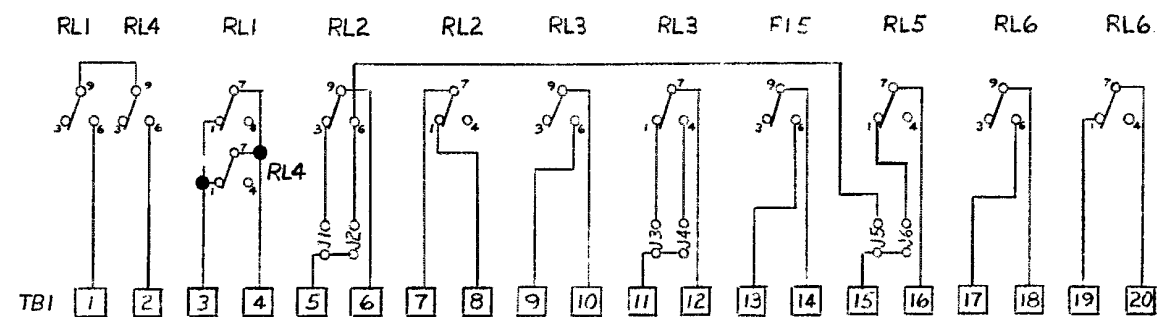
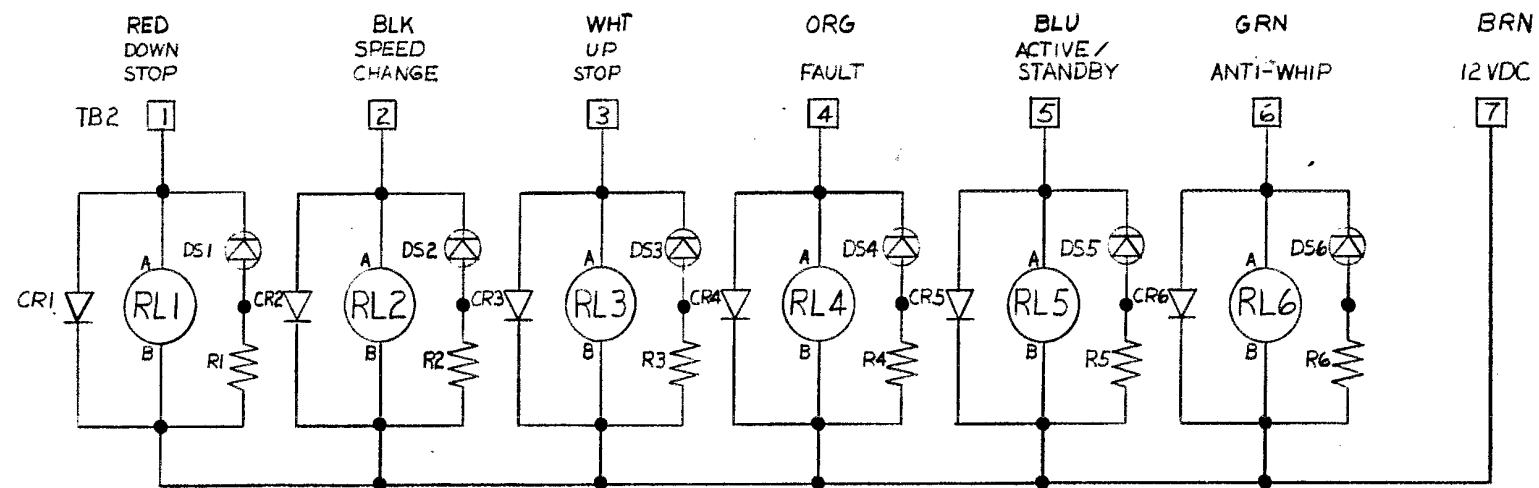


NOTES:
1) RL5 AND RL6 ARE SUPPLIED IN THE INSTALL KIT IF NEEDED.
2) ONLY JUMPERS J2, J3, AND J6 ARE INSTALLED.
3) SEE SHT 2 FOR WIRE CONNECTIONS TO TB2.

3"	406-6481-006	HEAT SHRINK, 1/2"	16
18"	406-1327-002	CABLE, 7 COND., 18 AWG	15
1	406-0803-086	KEYING PLUG	14
1	406-0803-084	COVER, 12 POS.	13
1	406-0803-078	CONNECTOR, 12 POS. 18 AWG	12
2.5"	406-1681-002	BUS WIRE 20 AWG	11
1	406-4004-007	TERMINAL, 4 POLE	10
2	406-4004-009	TERMINAL, 8 POLE	9
6	421-0004-002	HOLD DOWN	8
5	403-0301-002	RELAY, 12VDC DPDT RL1,2,3,4,6	7
6	403-5001-006	SOCKET, RELAY, PCB	6
12	111-0241-002	POP RIVET, 5/32 x 3/8 ALUM.	5
6	411-2001-005	LED, RED DS1-DS6	4
6	407-0007-127	RESISTOR, 2.4K, 5% R1-R6	3
6	417-0001-031	DIODE, 1N4004 CR1-6	2
1	414-0221-001	RELAY PCB, 2 AXIS	1

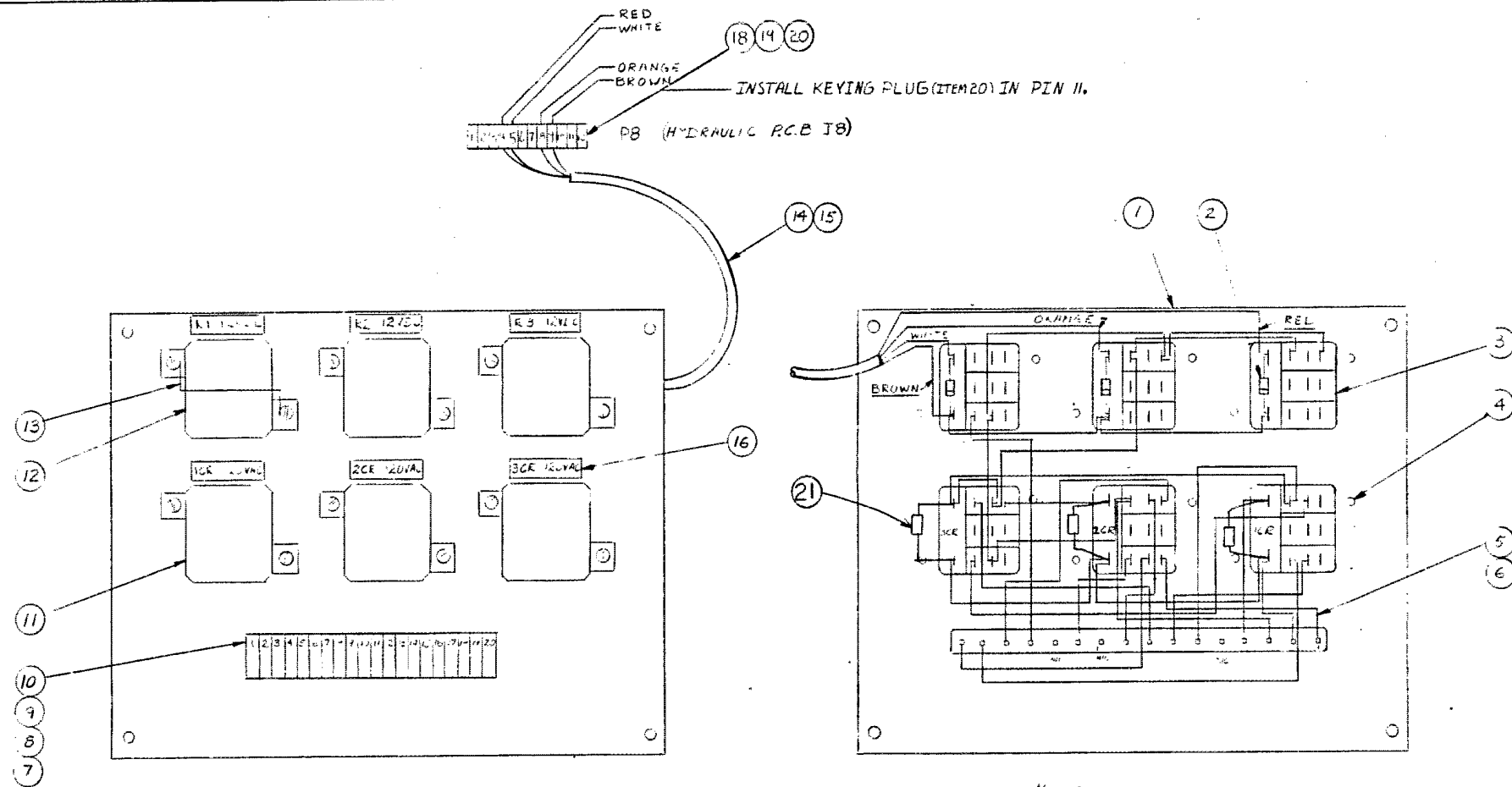
REQD.	PART NO.	DESCRIPTION	ITEM
BILL OF MATERIAL			
EXCEPT AS NOTED:			
TOLERANCES DECIMAL			
.000 ±.000			
.001 ±.015			
.002 ±.005			
.003 ±.005			
.004 ±.005			
.005 ±.005			
ANGULAR: ±0°30'			
BREAK ALL SHARP EDGES			
THIRD ANGLE PROJECTION			
DRAWN JRB			
DATE 31 JUL 85			
CHECKED			
DATE			
SCALE N/A			
UNIT OF MEAS. PC			
C 415-0221-001			
DATE 31 JUL 85			
REV. B			

REV.	NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE	OF
B	10222	ITEM 7 QTY WAS 4		8/24/89					
A	8845	ISSUE							
ASSEMBLY NO. 001-1417-001									

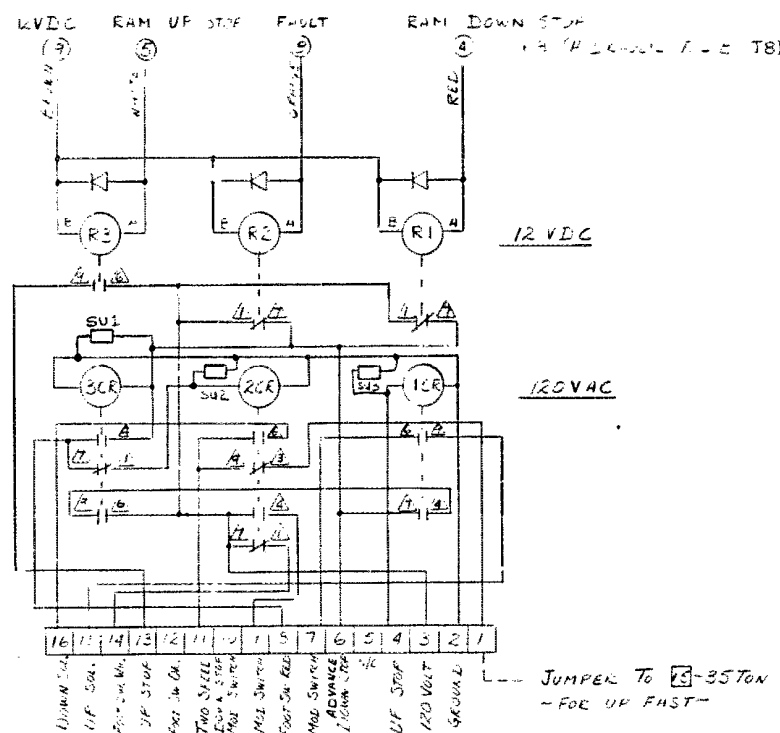


NOTES:
ALL RELAY CONTACTS ARE SHOWN IN THE DE-ENERGIZED STATE.

										TOLERANCES DECIMAL .0 ±.000 .00 ±.010 .000 ±.005 .0000 ±.0005 ANGULAR ±0°30'		RECD. PART NO. DESCRIPTION ITEM	
										HEAT TREATMENT NONE		BILL OF MATERIAL	
										ASSEMBLY NO. 001-1417-001		EXCEPT AS NOTED:  HURCO MANUFACTURING COMPANY, INC. Indianapolis, Indiana	
										BREAK ALL SHARP EDGES THIRD ANGLE PROJECTION 		DESCRIPTION RELAY BOARD, 2 AXIS STANDARD	
A 8845 ISSUE										DRAWN JRB SCALE N/A UNIT OF MEAS. PC		DATE 31 JUL 85 SIZE C 415-0221-001	
REV. NO. REVISION DESCRIPTION										DATE CHK BY DATE APP'D BY DATE OF		CHECKED DATE APPROVED DATE 31 JUL 85 REV. B	



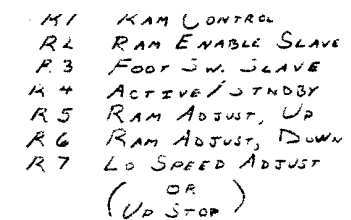
- NOTES
- SEE SCHEMATIC FOR WIRING.
 - WIRES FROM TB1-16 SHALL BE SEPARATED FROM OTHER WIRING BY 1 TO 1 1/2 INCHES AWAY FROM PANEL.



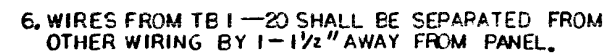
REV	FLR NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE
D	9619	ADD ITEM 21 + NOTE 2						
C	8285	ITEM 2 417-0001-031 WAS 417-0001-032						
B	7052	REVERSED DIRECTION OF MOTOR						
A	1941	RELEASE						

ITEM	DESCRIPTION	ITEM
3	417-0001-031 SUPPRESSOR	21
4	417-0001-032 SUPPRESSOR	22
5	417-0001-033 SUPPRESSOR	23
6	417-0001-034 SUPPRESSOR	24
7	417-0001-035 SUPPRESSOR	25
8	417-0001-036 SUPPRESSOR	26
9	417-0001-037 SUPPRESSOR	27
10	417-0001-038 SUPPRESSOR	28
11	417-0001-039 SUPPRESSOR	29
12	417-0001-040 SUPPRESSOR	30
13	417-0001-041 SUPPRESSOR	31
14	417-0001-042 SUPPRESSOR	32
15	417-0001-043 SUPPRESSOR	33
16	417-0001-044 SUPPRESSOR	34
17	417-0001-045 SUPPRESSOR	35
18	417-0001-046 SUPPRESSOR	36
19	417-0001-047 SUPPRESSOR	37
20	417-0001-048 SUPPRESSOR	38
21	417-0001-049 SUPPRESSOR	39
22	417-0001-050 SUPPRESSOR	40
23	417-0001-051 SUPPRESSOR	41
24	417-0001-052 SUPPRESSOR	42
25	417-0001-053 SUPPRESSOR	43
26	417-0001-054 SUPPRESSOR	44
27	417-0001-055 SUPPRESSOR	45
28	417-0001-056 SUPPRESSOR	46
29	417-0001-057 SUPPRESSOR	47
30	417-0001-058 SUPPRESSOR	48
31	417-0001-059 SUPPRESSOR	49
32	417-0001-060 SUPPRESSOR	50
33	417-0001-061 SUPPRESSOR	51
34	417-0001-062 SUPPRESSOR	52
35	417-0001-063 SUPPRESSOR	53
36	417-0001-064 SUPPRESSOR	54
37	417-0001-065 SUPPRESSOR	55
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41	417-0001-069 SUPPRESSOR	59
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43	417-0001-071 SUPPRESSOR	61
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52	417-0001-080 SUPPRESSOR	70
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54	417-0001-082 SUPPRESSOR	72
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56	417-0001-084 SUPPRESSOR	74
57	417-0001-085 SUPPRESSOR	75
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67	417-0001-095 SUPPRESSOR	85
68	417-0001-096 SUPPRESSOR	86
69	417-0001-097 SUPPRESSOR	87
70	417-0001-098 SUPPRESSOR	88
71	417-0001-099 SUPPRESSOR	89
72	417-0001-100 SUPPRESSOR	90
73	417-0001-101 SUPPRESSOR	91
74	417-0001-102 SUPPRESSOR	92
75	417-0001-103 SUPPRESSOR	93
76	417-0001-104 SUPPRESSOR	94
77	417-0001-105 SUPPRESSOR	95
78	417-0001-106 SUPPRESSOR	96
79	417-0001-107 SUPPRESSOR	97
80	417-0001-108 SUPPRESSOR	98
81	417-0001-109 SUPPRESSOR	99
82	417-0001-110 SUPPRESSOR	100

REV	FLR NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE
D	9619	ADD ITEM 21 + NOTE 2						
C	8285	ITEM 2 417-0001-031 WAS 417-0001-032						
B	7052	REVERSED DIRECTION OF MOTOR						
A	1941	RELEASE						



NOTE:
SEE SCHEMATIC FOR WIRING



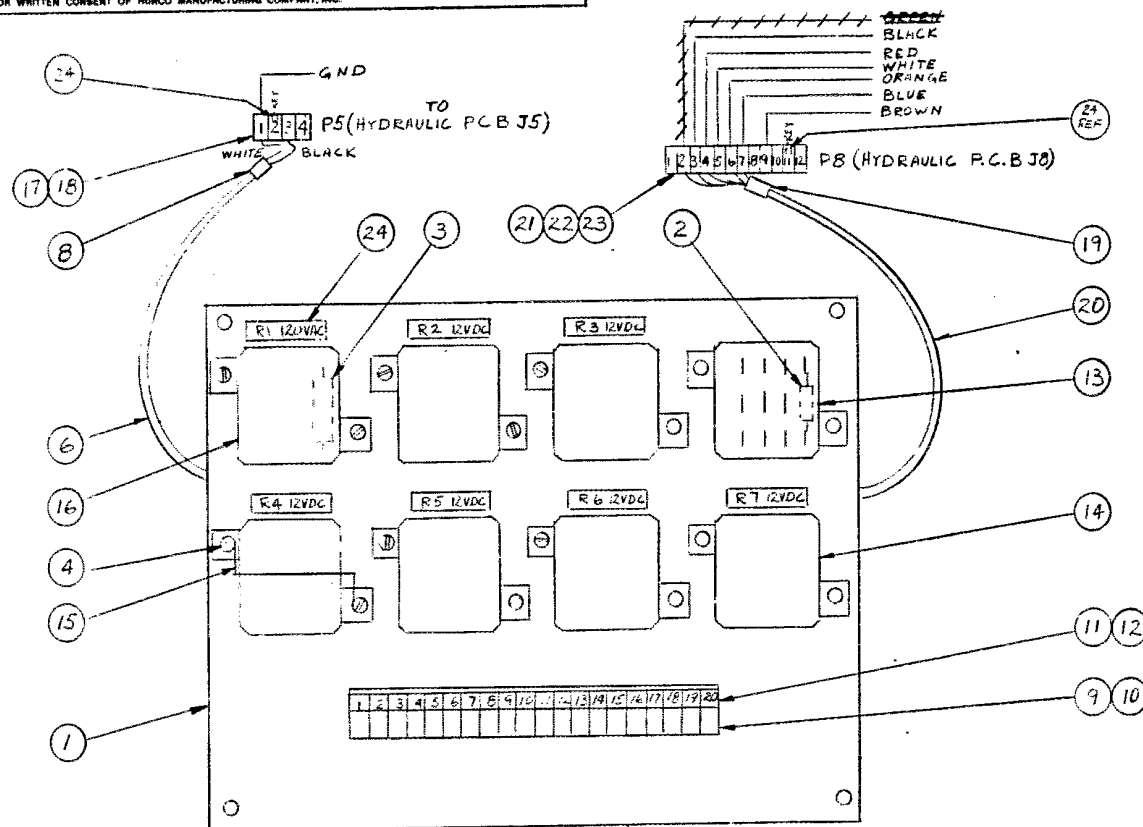
- NOTES:
- 1) (R1 REF. ~ SEE INST KIT)
R1 WILL V-L-E 24VDC RELAY FOR
24VDC OR 48VDC CONTROL CIRCUIT,
120V-L RELAY FOR
120 VOLT CONTROL CIRCUIT.
 - 2) (R4 WILL CHANGE TO
R4N 403-0301-003 3POLE
IF FOOT SWITCH IS REQ'D)
 - 3) ENABLE SIGNAL MUST
PRECEDE FOOT SWITCH SIGNAL.
 - 4) R7 - UPSTOP RELAY IS OPTIONAL
*ADDITIONAL FIRM IS REQUIRED
 - 5) JUMPER "B" WILL BE REMOVED
IF PRESS HAS 120VOLT CONTROL.
JUMPER "A" WILL BE MOVED
FROM TB(PIN3) TO TB(PINS)
IF PRESS HAS 48VDC CONTROL.

* NOT SHOWN ON DWG.

F	3690	BRASS - FLOWN / REAR - 2 GREEN WHITE T. ED. (GMS) CHM. 3.66	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
↑		REMOVE GRN WIRE P5 TO R1	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
E	9619	ADD ITEM 26 & NOTE 6	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
D	8235	ITEM 2 417-0001-031 WAS 4-1-0001-002	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
C	7619	CHG RE CONTACT CENTER 2.15 TO 1.5	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
B	7323	CRANAGE WAS YELLOW	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
A	7471	RELEASE	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
REV.	PART NO.	REVISION DESCRIPTION	REV.	DATE	CHG BY	DATE	APP BY	DATE	BY								

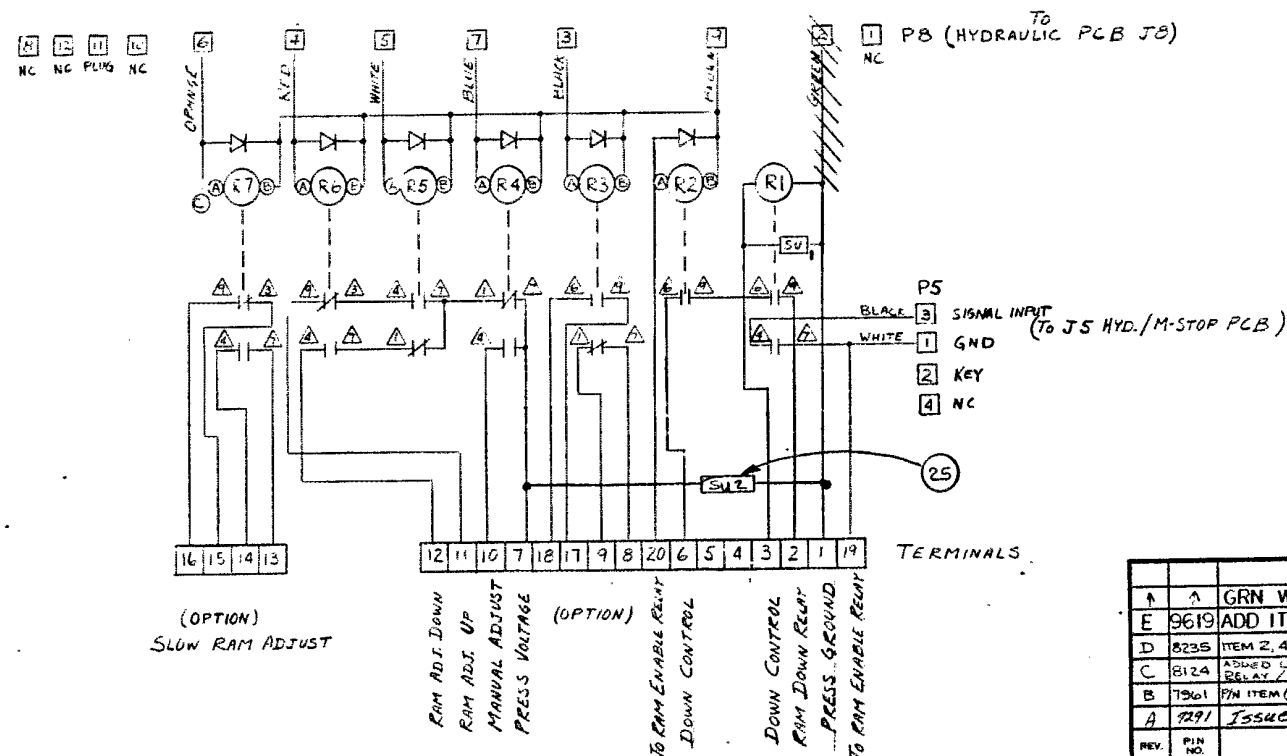
SURFACE TREATMENT	NONE
HEAT TREATMENT	NONE
ASSEMBLY NO.	001-147-004 A05

003	PART NO.		DESCRIPTION	1700
BILL OF MATERIAL				
EXCEPT AS NOTED		HURCO MANUFACTURING COMPANY, INC. Indianapolis, Indiana		
TOLERANCES DECIMAL		DESCRIPTION PANEL - MECHANICAL STOP 2 AXIS		
.020 .015 .010 .005 ANGULAR ± 30° SHARP EDGES TURN ANGLE PROTECT		DRAWN <i>DS</i> SCALE <i>1/2"</i> UNIT OF MEAS. <i>PC</i>		
DATE <i>11/18/04</i> DESK <i>11/18/04</i> DRAWING <i>11/18/04</i> APPROVED <i>11/18/04</i>		DATE <i>11/18/04</i> DESK <i>11/18/04</i> DRAWING <i>11/18/04</i> APPROVED <i>11/18/04</i>		
001-147-004 A05		D 001-1418-004 <i>1/2</i> F		



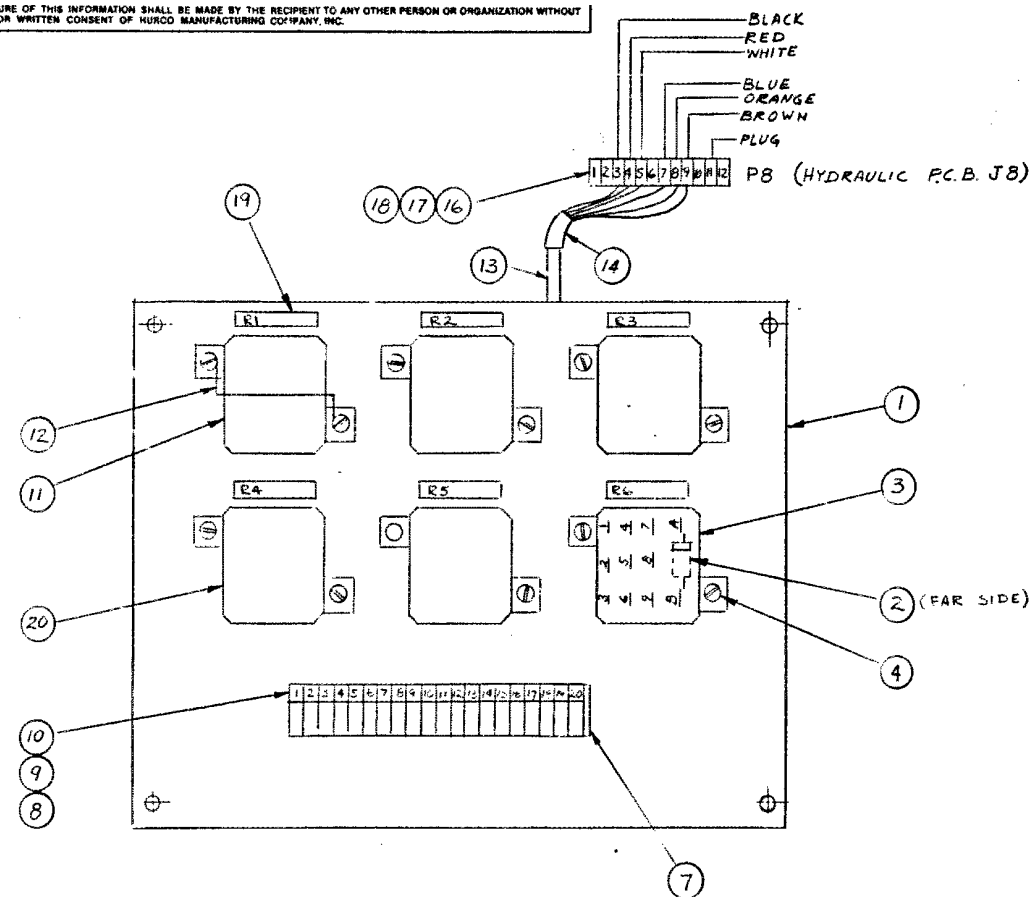
NOTES

- (E) 1. WIRES FROM TB1-20 SHALL BE SEPARATED FROM OTHER WIRING BY 1-1/2" FROM PANEL.



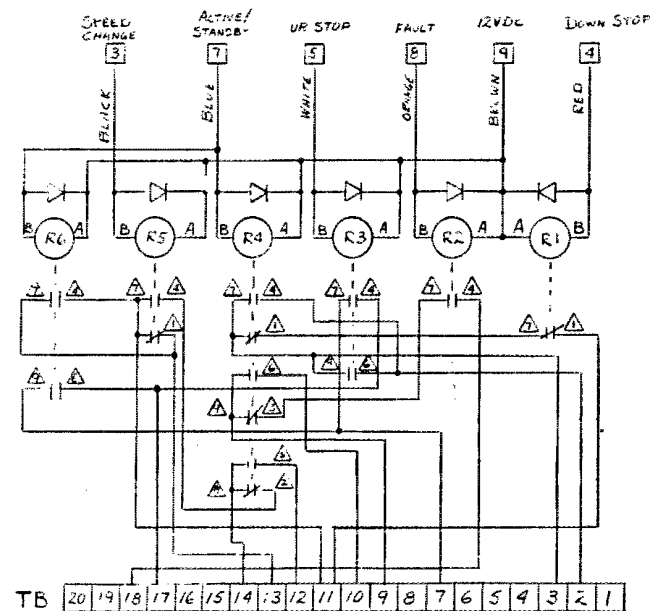
1	4176001010	SUPPRESSOR	25
1	705-0003-035	LABEL	24
2	406-0803-054	KEYING PLUG	23
1	406-0803-054	COVER, CONN. 12 PCS	22
1	406-0803-078	CONN, 12 PCS, 18 GA.	21
18	406-1327-002	CABLE, 7 COND. 18 GA	20
3	406-6481-006	SHRINK FIT - 1/2	19
1	406-0503-104	COVER, CONN. 4 Pcs.	18
1	406-0803-224	HOUSING, CONN. 4 COND., 18 GA.	17
1	403-4001-005	RELAY, 120 VAC	16
7	421-0004-002	HOLD DOWN	15
6	403-0301-002	RELAY, 12VDC	14
8	403-5001-002	SOCKET, RELAY	13
1	406-3001-060	MARKER 11 THRU 20	12
1	406-3001-059	MARKER 1 THRU 10	11
1	406-4003-006	TERMINAL END	10
20	406-4003-005	TERMINAL	9
22	406-6481-003	SHRINK FIT 3/16	8
* 200	406-2005-020	WIRE, 18AWG, BLACK	7
1.5	406-1242-002	WIRE, 2 COND., 18AWG	6
* 24	406-5001-003	TIE CABLE, SMALL	5
16	107-5008-007	SCREW PHMS, M3-12	4
1	417-6001-007	ARC SUPPRESSOR	3
7	417-0001-031	DIODE 1N4004	2
1	801-0631-001	PANEL RELAY	1

* NOT SHOWN				SURFACE TREATMENT		EXCEPT AS NOTED		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
1	1	GRN WIRE CONNECTIONS DELETED	1	1	1	NONE	ALL DIMENSIONS IN INCHES TOLERANCES DECIMAL .000 +.000 .000 +.000 .000 +.000 ANGULAR .000	DESCRIPTION	
E	9619	ADD ITEM 25 & NOTE 1	1	1	1	NONE	BREAK ALL SHARP EDGES	PANEL, MECHANICAL STOP	
D	8235	ITEM 2, 417-0001-031 WAS 417-0001-002	1	1	1	1	THIRD ANGLE PROJECTION	DRAWN: J.S. 15 JUL 83 CHECKED: J.S. 27 JUL 83 APPROVED: J.S. 27 JUL 83	
C	8124	ADDED LETTER SYMBOLS TO DESIGNATE RELAY / DIODE CONNECTIONS	1	1	1	1	UNIT OF MEAS	SCALE: 1/16" = 1" SIZE: D	
B	7961	PN ITEM (16) WAS 403-4001-006	1	1	1	1	PC	DRAWING: 001-1418-005	
A	1291	ISSUE	1	1	1	1		REV: 1 E	
REV.	PI/N NO.	REVISION DESCRIPTION	REV.	DATE	CHK BY	DATE	DATE		



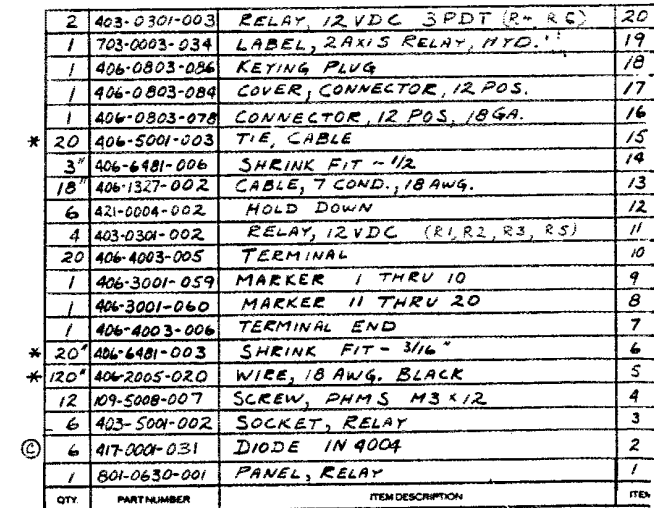
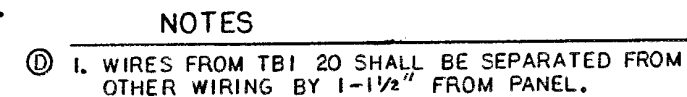
NOTES

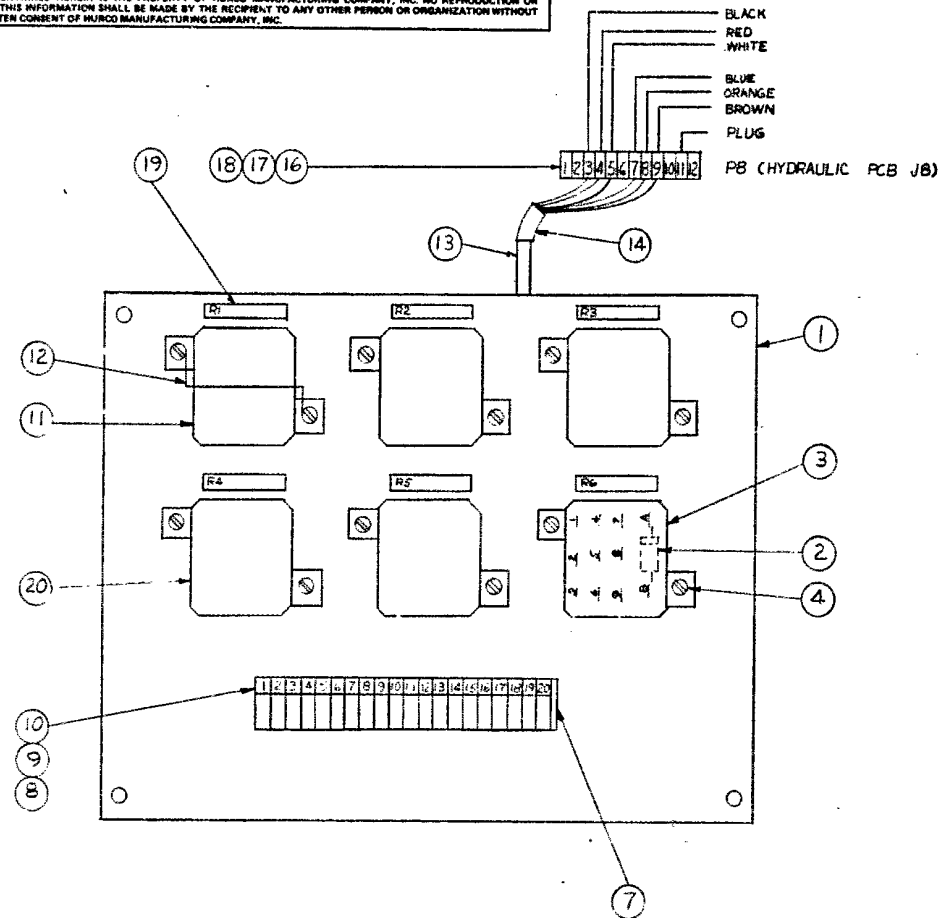
- ① WIRES FROM TB1-20 SHALL BE SEPARATED FROM OTHER WIRING BY 1-1/2" FROM PANEL.



1	403-0301-003	RELAY, 12 VDC 3PDT	20
1	703-003-034	LABEL, 2 AXIS RELAY, HYD.	19
1	406-0503-056	KEYING PLUG	18
1	406-0803-084	COVER, CONNECTOR, 12 POS.	17
1	406-0803-078	CONNECTOR, 12 POS, 18 GA.	16
* 20	406-5001-003	TIE CABLE	15
3	406-6481-006	SHRINK FIT - 1/2	14
18	406-1327-002	CABLE, 7 COND., 18 AWG.	13
6	421-5004-002	HOLD DOWN	12
5	403-0301-002	RELAY, 12 VDC	11
20	406-4003-005	TERMINAL	10
1	406-3001-059	MARKER 1 THRU 10	9
1	406-3001-060	MARKER 11 THRU 20	8
1	406-4003-006	TERMINAL END	7
* 20	406-6481-003	SHRINK FIT - 3/16"	6
* 120	406-2005-020	WIRE, 18 AWG. BLACK	5
12	109-5008-007	SCREW, PHMS M3 x 12	4
6	403-5001-002	SOCKET, RELAY	3
1	417-0001-001	DIODE IN 4004	2
1	601-0030-001	PANEL, RELAY	1

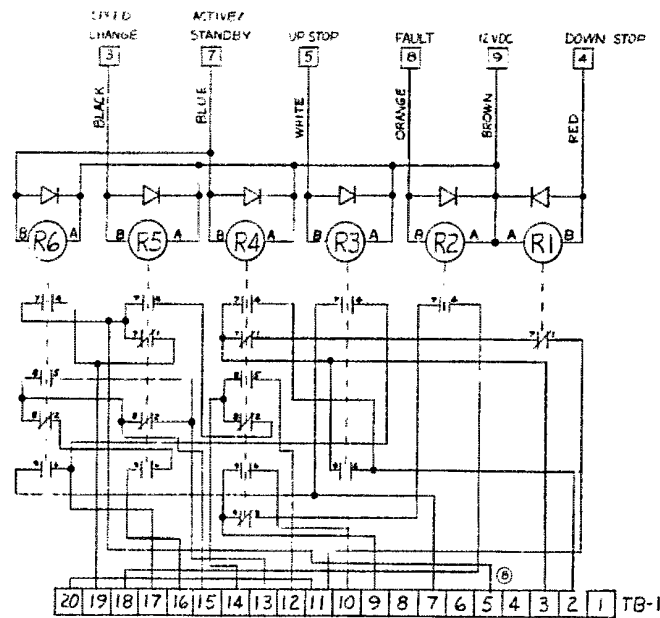
SURFACE TREATMENT		EXCEPT AS NOTED		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
NONE		ALL DIMENSIONS IN INCHES		DESCRIPTION PANEL, 2 AXIS, WYSONG	
HEAT TREATMENT		TOLERANCES DECIMAL 0.00 ± 0.00 0.000 ± 0.005 ANGULAR ± 0.030		DRAWN 1/8 DATE 1/8/83	
NONE		BREAK ALL SHARP EDGES		CHECKED 1/8 DATE 1/8/83	
FIRST USED ON		THIRD ANGLE PROJECTION		APPROVED R/C DATE OCT 83	
REV. NO.		REVISION DESCRIPTION		SCALE 1/1 UNIT OF MEAS. IN	
A 7501 ORIGINAL ISSUE		REV. BY DATE		SIZE D DRAWING 001-1418-007	
C 9619 ADD NOTE 1		DATE OF		REV. NO. C	
B 8235 ITEM 2 417-0001-031 WAS 417-0001-032		DATE OF			
001-1417-007					

P98



NOTES

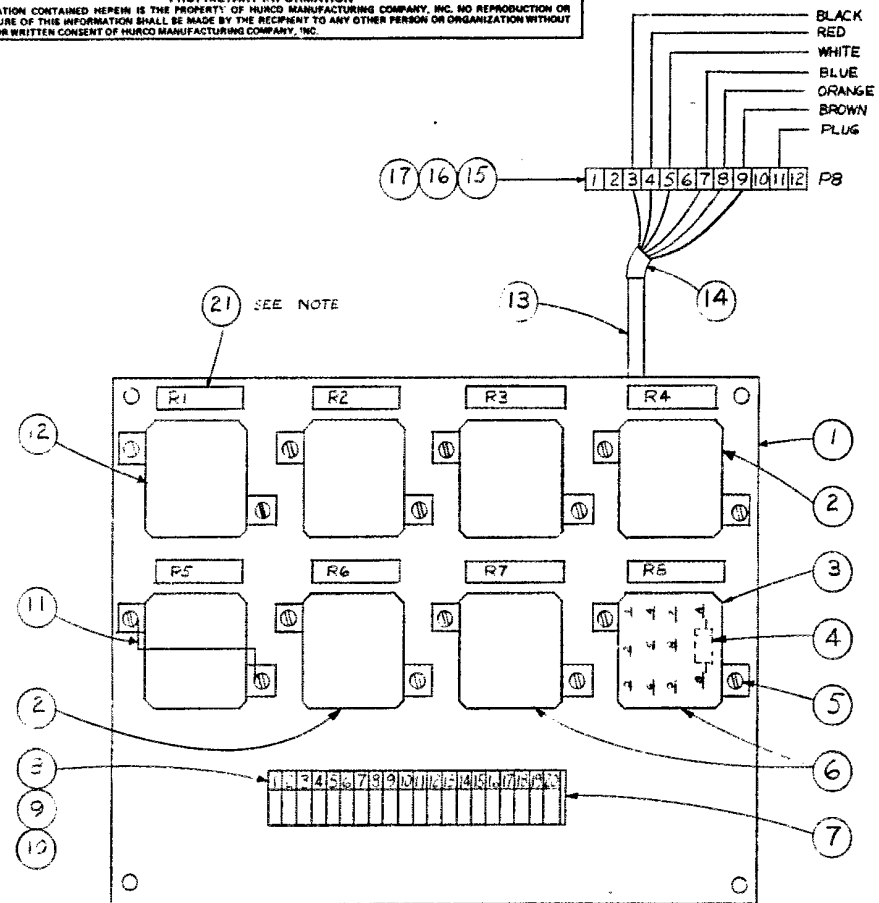
- ③ 1. WIRES FROM TB1-20 SHALL BE SEPARATED FROM OTHER WIRING BY 1-1/2 IN. FROM PANEL.



3	403-0301-003	RELAY, 12VDC 3PDT (R4, R6)	20
1	703-0003-034	LABEL, 2 AXIS RELAY HYD	19
1	406-0803-086	KEYING FLUG	18
1	406-0803-084	COVER, 2 POS	17
1	406-0803-078	CONNECTOR, 12 POS 18 AWG	16
* 20	406-5001-002	TIE, CABLE	15
3"	406-6491-006	SHRINK FIT 1/4"	14
18"	406-1327-002	CABLE, 7COND., 18AWG	13
6	421-0004-002	HOLD DOWN	12
3	403-0301-002	RELAY, 12VDC DPDT (R1, R2, R3)	11
20	406-4003-005	TERMINAL	10
1	406-3001-059	MARKER 1-10	9
1	406-3001-060	MARKER 11-20	8
1	406-4003-006	END PLATE	7
* 20"	406-6491-003	SHRINK FIT, 3/16"	6
* 120"	406-2005-020	WIRE, 18 AWG BLACK	5
12	109-5008-007	SCREW, PHMS M3x12	4
6	403-5001-002	SOCKET, RELAY	3
6	417-0001-031	DIODE 1N4004	2
1	801-0630-001	PANEL RELAY	1
QTY	PART NUMBER	ITEM DESCRIPTION	ITEM

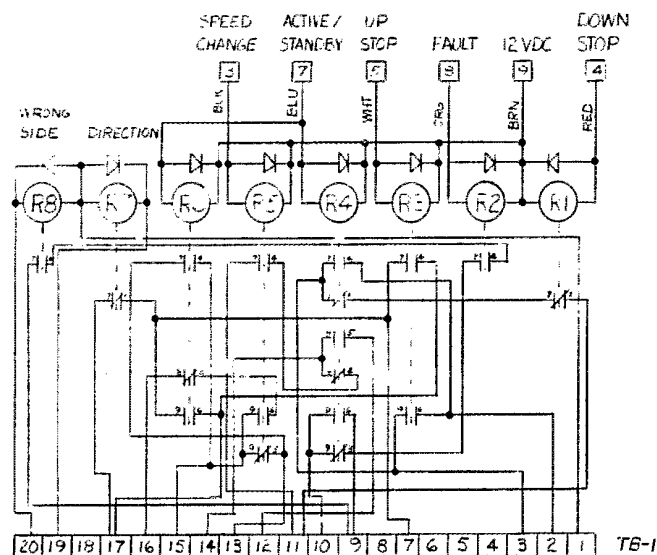
* NOT SHOWN

* NOT SHOWN										PARTS LIST									
										SURFACE TREATMENT NONE									
										EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCES DECIMAL .00 .01 .0000 .0005 .0008 ANGULAR ±.05									
										HEAT TREATMENT NONE									
C 9619 ADD NOTE 1										DESCRIPTION PANEL, 24x15, WYSONG 150 L 90 # N84-679									
B 8904 MOVED WIRE FROM TERMINAL 11 TO TERMINAL 5										DRAWING JRB									
A 8656 RELEASE										DATE 8 MAR 85									
REV. P/NL NO. REVISION DESCRIPTION										CHECKED DATE APPROVED 722 MAR 85									
REV. DATE CHG BY DATE BY DATE BY										SCALE NONE SIZE D UNIT OF MEAS. PC									
FIRST USED ON 001-1417-011										THIRD ANGLE PROJECTION UNIT OF MEAS. PC									
										HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.									



NOTES

1. CUT OFF ALL OF LABEL EXCEPT FOR THE R1-P8 DESIGNATIONS.

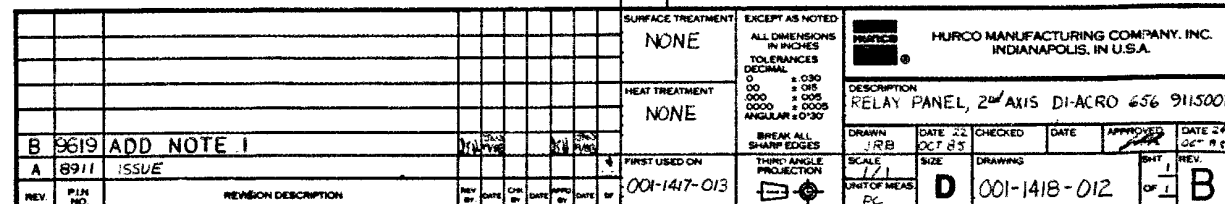
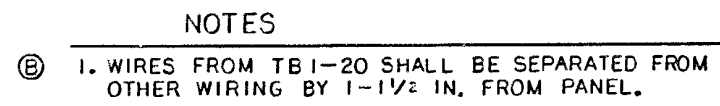


- NOTES
2. WIRES FROM TB1-20 SHALL BE SEPARATED FROM OTHER WIRING BY 1-1 1/2 IN. FROM PANEL.

QTY	PART NUMBER	ITEM DESCRIPTION	ITEM
1	703-0003-034	LABEL	2
20	406-5001-005	CABLE TIE	2
20	406-6481-003	3/4" HEATSHRINK	1
120	406-2005-020	WIRE, 18 AWG BLACK	1
1	406-0803-086	KEYING PLUG	1
1	406-0803-084	COVER, 12 POS	1
1	406-0803-078	CONNECTOR, 12 POS, 18 AWG	1
3	406-6481-006	1/2" HEATSHRINK	1
18	406-1327-002	CABLE, 7 COND, 18 AWG	1
4	403-0301-002	RELAY, 12VDC R1, R2, R3, R5	1
8	421-0004-002	HOLD DOWN	1
1	406-3001-060	MARKER, 11-20	1
1	406-3001-059	MARKER, 1-10	1
20	406-4003-005	TERMINAL	1
1	406-4003-006	END PLATE	1
2	403-2001-013	RELAY, 24VDC 2PDT, R7, R8	1
16	109-5008-007	SCREW, PHMS, M3X12	1
8	417-0001-031	DIODE, 1N4004	4
8	403-5001-002	SOCKET, RELAY	3
2	403-0301-003	RELAY 12VDC 3PDT, R4, R6	2
1	801-0631-001	PANEL, RELAY	1

NOT SHOWN

SURFACE TREATMENT		EXCEPT AS NOTED:	
NONE		ALL DIMENSIONS IN INCHES	
HEAT TREATMENT		TOLERANCES DECIMAL	
NONE		.0000 +.0000	
B 9619 ADD NOTE 2		.0000 +.0000	
A 8753		ANGULAR +0°-30°	
REVISION DESCRIPTION		BREAK ALL SHARP EDGES	
001-1417-012		THIRD ANGLE PROJECTION	
		SCALE	
		NONE	
		UNIT OF MEAS	
		PC	
		DRAWN	
		DATE	
		29 APR 85	
		CHECKED	
		DATE	
		APPROVED	
		DATE	
		MAY 85	
		REV	
		B	



20	406-5501-003	CABLE TIE, 1/4" MLL	21
20	406-6461-003	HEAT SHRINK 3/4"	20
190	406-2005-020	WIRE 18 AWG BLACK	190
6	406-5501-002	SOCKET RELAY	18
1	406-4003-006	TERMINAL END	17
1	406-3001-060	VARIABLE 1-20	16
1	406-3001-059	MARKER 1-10	15
20	406-4003-065	TERMINAL	14
5	417-0001-031	DIODE 1N4004	13
5	403-0301-002	RELAY, 12VDC KI-R5	12
6	421-0004-002	HOLD DOWN	11
1	793-0003-034	LABEL, 2nd AXIS RELAY HYDR	10
12	109-5508-007	SCREW, PHMS, M3-12	9
1	406-0803-066	KEYING PLUG	8
1	406-0803-084	COVER, CONNECTOR, 12 POS	7
1	406-0803-076	CONNECTOR, 12 POS. 18 AWG	6
3	406-6461-006	HEAT SHRINK 1/2"	5
12	406-1527-002	CABLE, 7 COND., 18 AWG	4
1	417-6001-007	SUPPRESSOR	3
1	403-4001-005	RELAY HVAC, R6	2
1	801-0630-001	PANEL RELAY	1
QTY	PART NUMBER	ITEM DESCRIPTION	ITEM

SIZE B	DRAWING 423-6093-001	SHT OF 1	REV. D	PROPRIETARY INFORMATION INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HURCO MANUFACTURING COMPANY, INC. NO REPRODUCTION OR DISCLOSURE OF THIS INFORMATION SHALL BE MADE BY THE RECIPIENT TO ANY OTHER PERSON OR ORGANIZATION WITHOUT THE PRIOR WRITTEN CONSENT OF HURCO MANUFACTURING COMPANY, INC.									
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P4 (SMART P.C.B.)

3	BLUE	A	φ B
2	WHITE	B	φ A
6	RED	C	5VDC
1	BLACK	D	GROUND
4	KEY	E	SHIELD (SCALE CHASSIS)
5	GREEN	F	MARKER

TO MOUNTING SCREW ON J3

J3 (CONTROL ENCLOSURE)

REQD.	PART NO.	DESCRIPTION	ITEM	
	5"	406-2006-025	WIRE, GREEN 22 AWG	8
	1	406-7001-006	TERMINAL, RING #6 22-18 AWG	7
	1	406-0803-086	KEYING PLUG	6
	1	406-0805-001	CONNECTOR, 6 PIN	5
	2.5'	406-1326-002	CABLE, 6 COND. 20 AWG.	4
	4"	406-6481-005	SHRINK SLEEVE 3/8	3
	1	406-0803-074	CONNECTOR, 6 PIN CLOSED END	2
	1	406-0803-081	COVER, CONNECTOR, HOUSING	1

REV.	P.I.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APPD BY	DATE	DF
D	10709	QNTY OF ITEM 8 WAS 2"	JEP	28 FEB 83					
C	9384	ITEM 4 QTY WAS 2	VH	28 FEB 83					
B	7033	ADD ITEMS 7 & 8	DS	28 FEB 83					
A	6947	RELEASE							

SURFACE TREATMENT	
NONE	

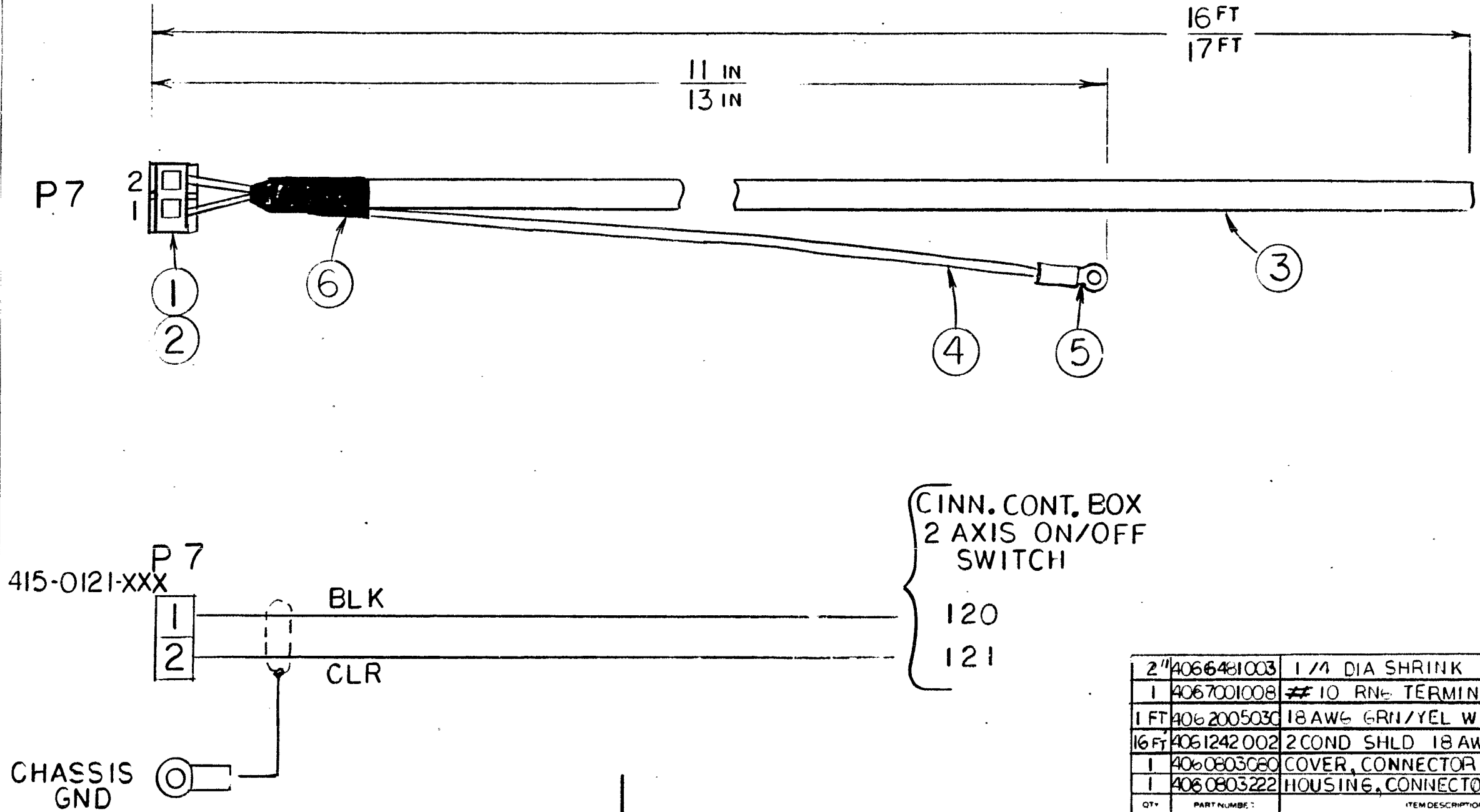
HEAT TREATMENT	
NONE	

ASSEMBLY NO.	
001-1417-001	

EXCEPT AS NOTED:	
TOLERANCES DECIMAL	
.0 ±.030	
.00 ±.015	
.000 ±.005	
.0000 ±.0005	
ANGULAR ±0°30'	
BREAK ALL SHARP EDGES	
THIRD ANGLE PROJECTION	

BILL OF MATERIAL	
HURCO MANUFACTURING COMPANY, INC. Indianapolis, Indiana	
DESCRIPTION HARNESS, HYDRAULIC ENCODER	
DRAWN W	DATE 26 JUL 82
CHECKED R	DATE 19 AUG 82
APPROVED R. COLLINS	DATE 19 AUG 82
SCALE 1/1	UNIT OF MEAS. PC
SIZE B	DRAWING 423-6093-001
SHT. OF 1	REV. D

P102

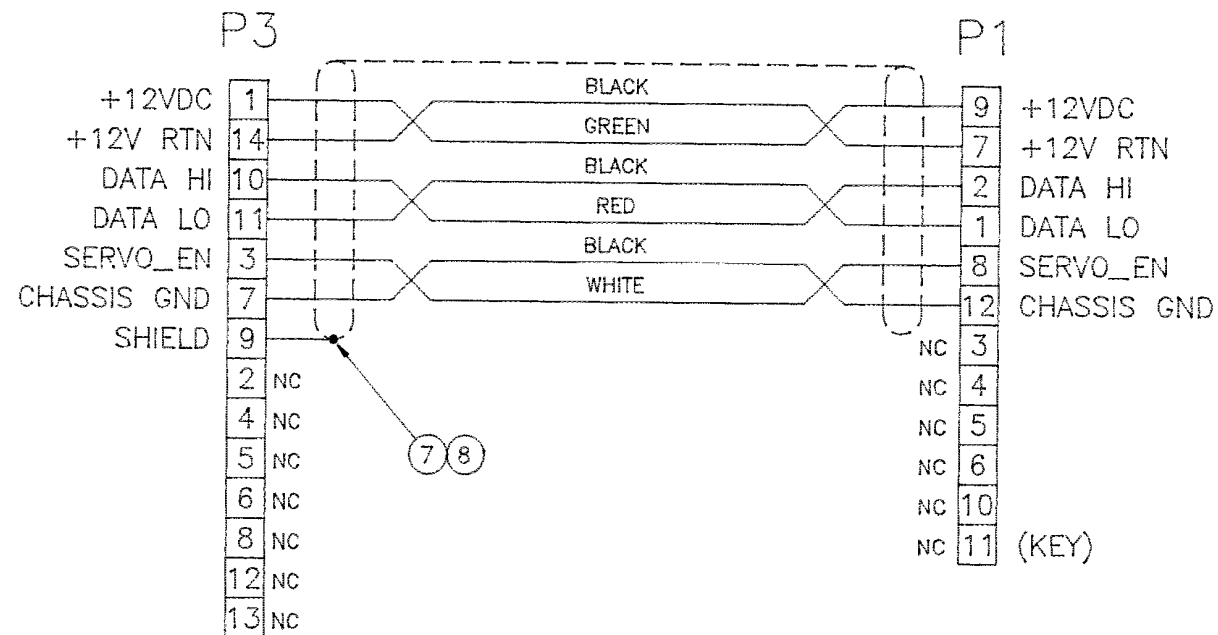
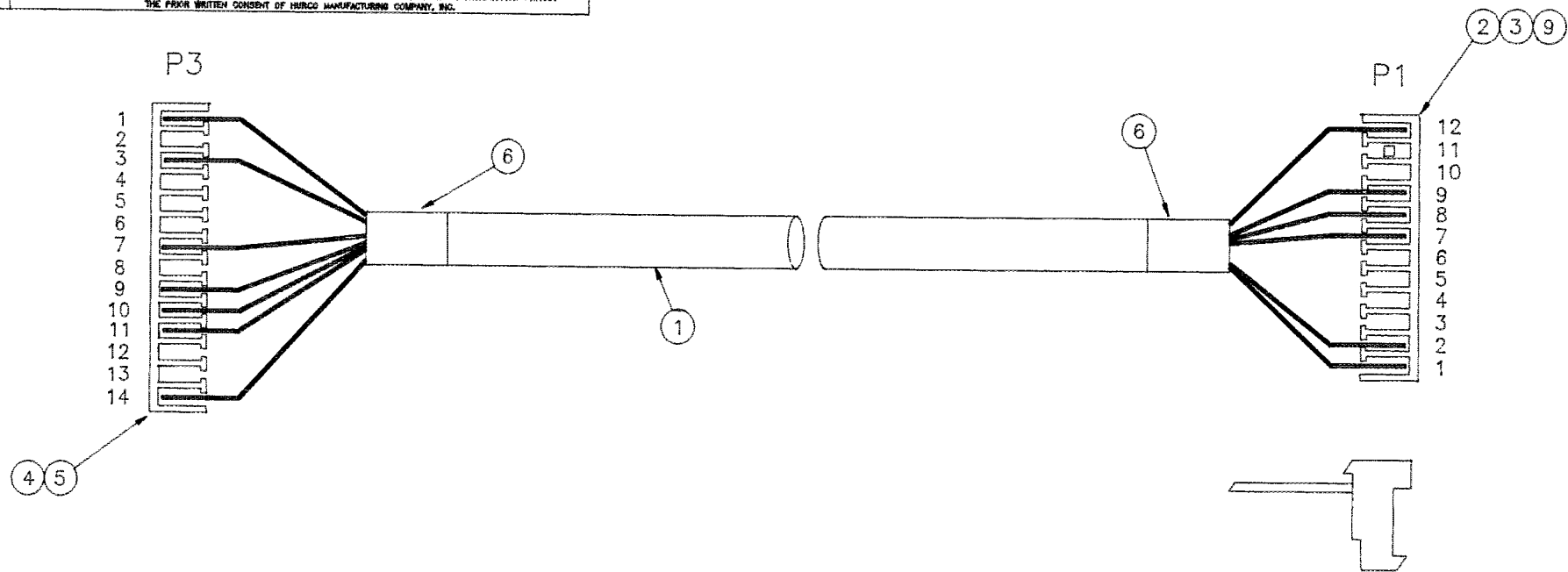


2"	4066481003	1/4 DIA SHRINK FIT	6
1	4067001008	#10 RNE TERMINAL RED	5
1 FT	4062005030	18 AWG GRN/YEL WIRE	4
16 FT	4061242002	2 COND SHLD 18 AWG	3
1	4060803080	COVER, CONNECTOR	2
1	4060803222	HOUSING, CONNECTOR 2 POS	1
QTY	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			

SURFACE TREATMENT				EXCEPT AS NOTED				HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN, U.S.A.			
N/A				ALL DIMENSIONS IN INCHES				CINN CB OEM			
HEAT TREATMENT				TOLERANCES				HARNESS ACT/STDBY			
N/A				DECIMAL				DRAWN			
				0 ± 0.30				DATE			
				00 ± 0.15				CHECKED			
				000 ± 0.05				DATE			
				0000 ± 0.005				APPROVED			
				ANGULAR ± 0.30				DATE			
				BREAK ALL SHARP EDGES				REV			
				THIRD ANGLE PROJECTION				REV			
FIRST USED ON				SCALE				SIZE			
001-1504-				PC				B			
015								423 6225 001			
								1			
								A			

A 96050R16 ISSUE

REV	PIN NO	REVISION DESCRIPTION	REV	DATE	BY	DATE	BY	DATE	BY

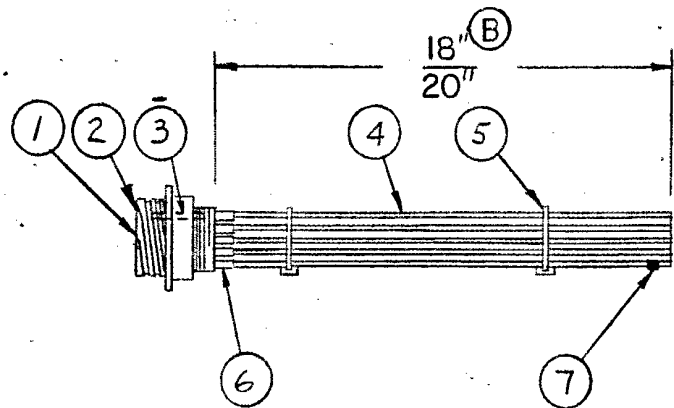


- NOTES:
1. LABEL HARNESS WITH PART NUMBER AND REVISION.
 2. LABEL CONNECTORS AS SHOWN.
 3. USE ITEM 7 TO CONNECT THE SHIELD OF ITEM 1 TO PIN 9 OF ITEM 4. USE ITEM 8 TO COVER SOLDER JOINT.
 4. OVERALL LENGTH TO BE 32"±1".

1	406-0803-086	KEYING PLUG, MTA-156	9
1"	406-6481-002	SHRINK TUBING, 1/8"	8
2"	406-2005-020	WIRE, 18 AWG BLACK	7
3"	406-6481-005	SHRINK TUBING, 3/8"	6
1	406-0803-949	COVER, MTA-156 14-POS STRAIN RELIEF	5
1	406-0803-231	HOUSING, MTA-156 14-POS 18 AWG	4
1	406-0803-850	COVER, MTA-156 12-POS STRAIN RELIEF	3
1	406-0803-078	HOUSING, MTA-156 12-POS 18 AWG	2
32"	406-1244-007	CABLE, 3 TWISTED PAIR, 18 AWG	1
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
--002			

SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT		DECIMAL 0 ±.0300 .03 ±.0150 .030 ±.0050 .0050 ±.0005 ANGULAR ± 0°30' BREAK ALL SHARP EDGES		DESCRIPTION HARNESS, HYDRAULIC PERIPHERAL	
FIRST USED ON		DATE D.A.B.		CHECKED DATE APPROVED DATE	
ABSC W/188		NONE		SCALE D 423-6220-002	
REV. 1		DATE		REV. 1	

CN
AB160



SECOND AXIS
CONTROL ENCLOSURE

J9

1	NC		
2		53	2
3		53A	3
4	NC		
5		59	17
6		58	18
7		24	7
8		35A	14
9		17	9
10		17A	10
11		4	11
12		35	12
13		73	13
14	NC		
15	NC		
16	NC		

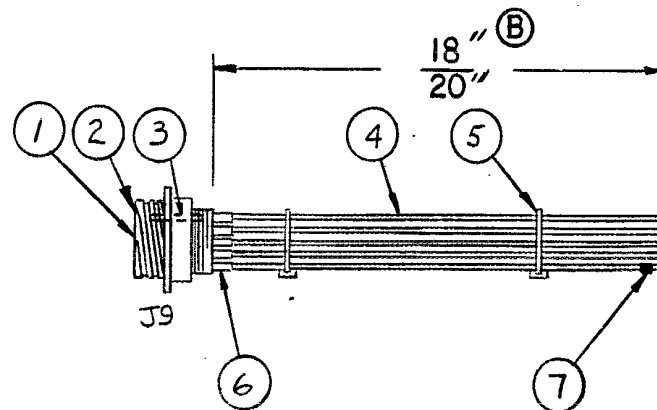
MARK WIRE NUMBERS
FROM WYSONG PRESS CONTROL

REF:
SECOND AXIS
CONTROL RELAY
PANEL TB

REF.	406-3001-052	MARKER, BRADY WIRE	7
6"	406-6481-004	SHRINK TUBE	6
2	406-5001-006	Ti - WRAP	5
16.5'	406-2004-012	WIRE, 16 GA, RED	4
11	406-7501-010	PIN CONTACT	3
1	406-0962-001	SEAL	2
1	406-0485-004	RECEPTACLE, SQ. FL., 16 PIN	1
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM

(B)

SURFACE TREATMENT		EXCEPT AS NOTED:	
NONE		ALL DIMENSIONS IN INCHES	
HEAT TREATMENT		TOLERANCES DECIMAL	
NONE		0 ± 0.30	
		0.00 ± 0.15	
		.000 ± 0.05	
		.0000 ± 0.005	
		ANGULAR ± 0°30	
B 9532 ITEM 4 QTY WAS 11'		BREAK ALL SHARP EDGES	
A 7501 ORIGINAL ISSUE		THIRD ANGLE PROJECTION	
REV.	P.I.N. NO.	REVISION DESCRIPTION	REV. BY DATE CHK BY DATE APP BY DATE OF
			001-1417-007
HURCO		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
DESCRIPTION HARNES, WYSONG 2-AXIS			
DRAWN 28	DATE 27SEP83	CHECKED [Signature]	DATE 28Oct83
SCALE NONE	SIZE C	DRAWING 423-6127-001	SHT. 4
UNIT OF MEAS. PC			REV. B



NOTE: LABEL ALL CONNECTORS AS SHOWN

SECOND AXIS
CONTROL ENCLOSURE

J9

1	NC		
2		53	2
3		53A	3
4		57	16
5		65	17
6		66	18
7		24	7
8		35A	14
9		17	9
10		17A	10
11		4	11
12		35	12
13		67	13
14		30	15
15	NC		
16	NC		

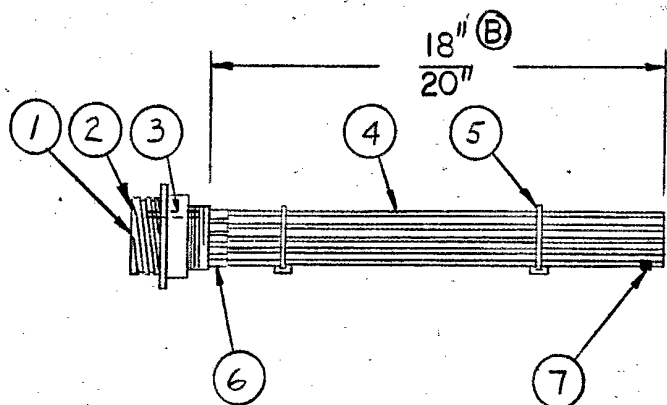
MARK WIRE NUMBERS
FROM WYSONG PRESS CONTROL

REF:
SECOND AXIS
CONTROL RELAY
PANEL TB

REF.	406-3001-052	MARKER, BRADY WIRE	7
7"	406-6431-004	SHRINK TUBE	6
2	406-5001-006	TI - WRAP	5
19.5'	406-2004-012	WIRE, 16 GA, RED	4
13	406-7501-010	PIN CONTACT	3
1	406-0962-001	SEAL	2
1	406-0485-004	RECEPTACLE, SQ. FL., 16 PIN	1
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM

B

				SURFACE TREATMENT				EXCEPT AS NOTED:				HURCO HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.			
				NONE				ALL DIMENSIONS IN INCHES TOLERANCES DECIMAL 0 ±.030 .00 ±.015 .000 ±.005 ANGULAR ±0°30'							
				HEAT TREATMENT				NONE				BREAK ALL SHARP EDGES			
				FIRST USED ON				THIRD ANGLE PROJECTION				DESCRIPTION			
												HARNESS, WYSONG 2-AXIS			
C. 10179 ADDED NOTE				ep 4-23-84 RM 53 A 50 K 89								DRAWN 28 DATE 27 DEC 83 CHECKED DATE 16 JAN 84 APPROVED R.C. DATE 19 JAN 84			
B 9532 ITEM 4 QTY WAS 13'												SCALE NONE SIZE C			
A 7681 ORIGINAL ISSUE												UNIT OF MEAS. PC			
REV. P.I.N. NO. REVISION DESCRIPTION				REV. BY. DATE CHK. BY. DATE APP. BY. DATE OF				001-1417-009				423-6127-002 OF 1 C			



SECOND AXIS
CONTROL ENCLOSURE

J9

1	16A	19
2	72A	2
3	74	3
4	56	16
5	140	17
6	110	18
7	91	7
8	45A	14
9	18	9
10	109	10
11	6	11
12	45	12
13	46	13
14	40	15
15	↑ 160	20
16	NC	MARK WIRES FROM WYSONG PRES

MARK WIRES FROM WYSONG PRESS CONTROL

REF:

SECOND AXIS
CONTROL RELAY
PANEL TB

REF.	406-3001-052	MARKER, BRADY WIRE	7
8"	406-6481-004	SHRINK TUBE	6
2	406-5001-006	T1 - WRAP	5
225'	406-2004-012	WIRE, 16 GA, RED	4
15	406-7501-010	PIN CONTACT	3
1	406-0962-001	SEAL	2
1	406-0485-004	RECEPTACLE, SQ. FL., 16 PIN	1
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM

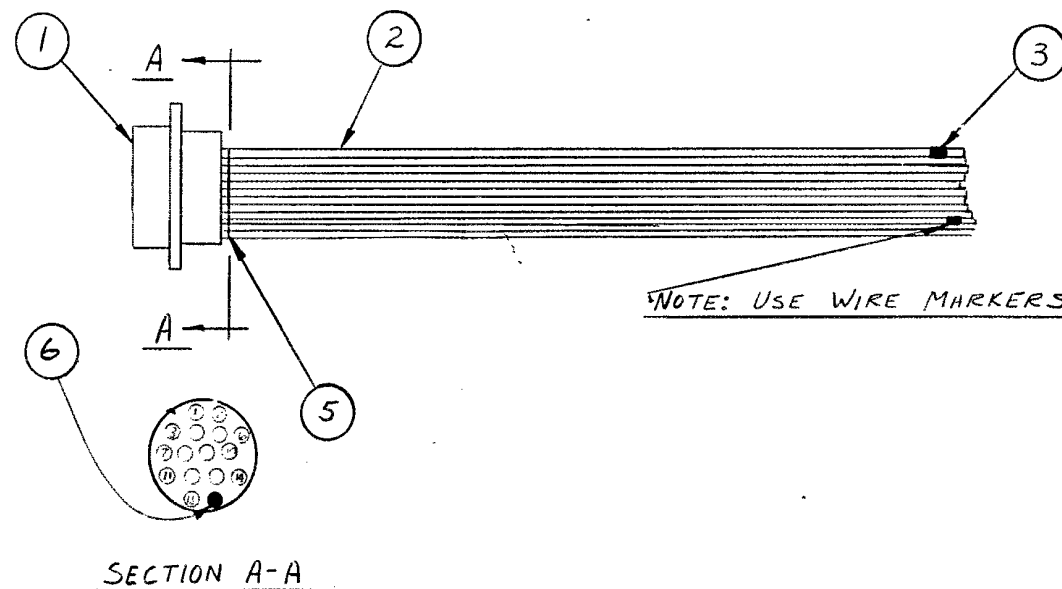
		PARTS LIST			
SURFACE TREATMENT	EXCEPT AS NOTED:		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.		
	ALL DIMENSIONS IN INCHES TOLERANCES DECIMAL .0 ±.030 .00 ±.015 .000 ±.005 .0000 ±.0005 ANGULAR ±0°30'				
HEAT TREATMENT	BREAK ALL SHARP EDGES	DESCRIPTION 150/90 HARNESS, WYSONG 2-AXIS			
FIRST USED ON	THIRD ANGLE PROJECTION	DRAWN JRB	DATE 11 MAR '85	CHECKED)	DATE
001-1417-011		SCALE NONE UNIT OF MEAS PC	SIZE C	DRAWING 423-6127-003	SHT. 4 REV. 1 OF 1 B

C

423-6125-003

REV. 1
OF 1 B

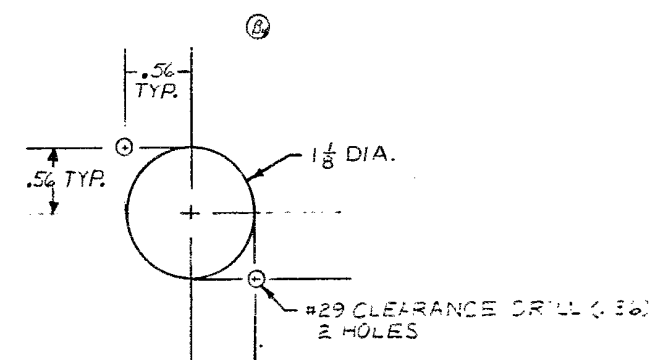
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PRESS BRAKE
RELAY ENCLOSURE

J4		
1	16A	
2	72A	
3	74	
4	85	
5	140	
6	110	
7	91	
8	45A	
9	18	
10	109	
11	6	②
12	45	
13	46	
14	40	
15	16	②
16	KEY	

MARK WIRE NUMBERS

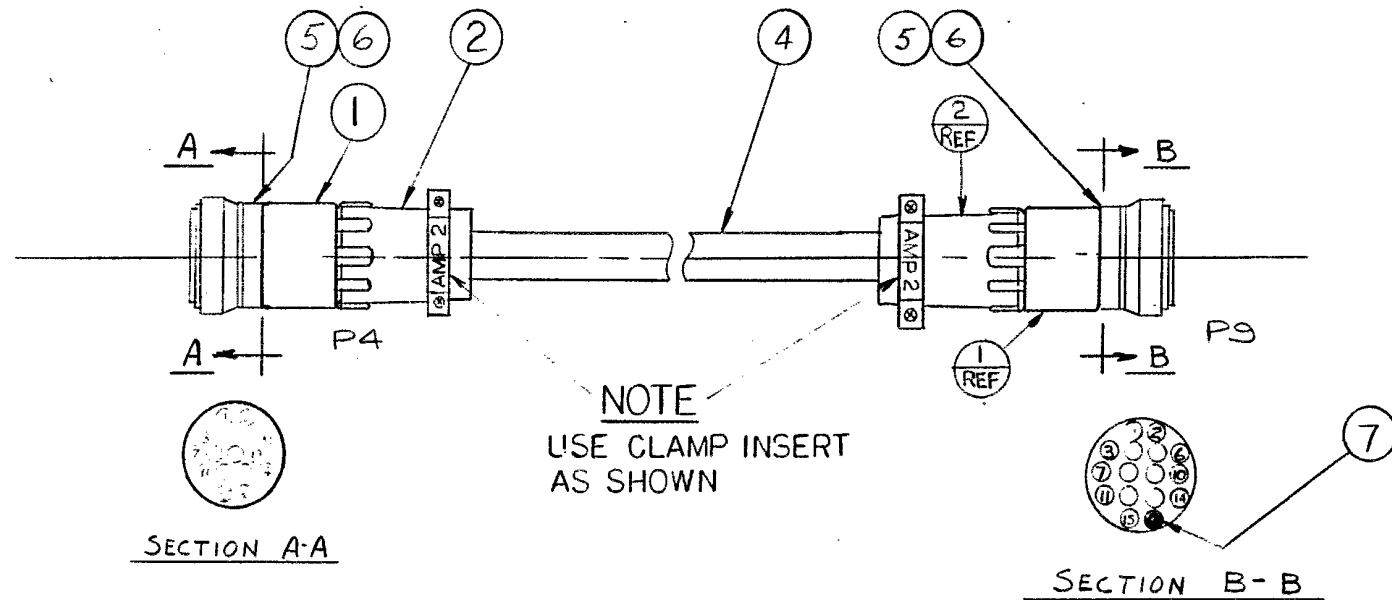


PLUG CUT OUT
PLUG IS MOUNTED IN BOTTOM OF
THE W-SONG RELAY ENCLOSURE

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	406-0803-510	KEYING PLUG, CPC	6
15	406-7501-010	CONTACT, PIN	5
			4
REF.	406-3001-052	MARKER, WIRE	3
39'	406-2004-012	WIRE, 16 GA. RED	2
1	406-0425-004	CONNECTOR 16 POS.	1
PARTS LIST			

REV.	PIN NO.	REVISION DESCRIPTION	REV. BY.	DATE	CHK. BY.	DATE	APP. BY.	DATE	DF.
B	7726	WIRE 16 GA. RED 107							
B	8726	WIRE 16 GA. RED 107							
A	5656	ORIGINAL ISSUE							

SURFACE TREATMENT	EXCEPT AS NOTED	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
NONE	ALL DIMENSIONS IN INCHES TOLERANCES DECIMAL 0.00 ± 0.030 0.00 ± 0.015 0.00 ± 0.005 0.000 ± 0.0005 ANGULAR ± 0°30'	DESCRIPTION HARNESS, PRESS CONTROL 150/90	
HEAT TREATMENT	NONE	DRAWN JRB DATE 11 MAR '85 CHECKED DATE APPROVED JRB DATE 11 MAR '85	
FIRST USED ON	THIRD ANGLE PROJECTION	SCALE NONE SIZE DRAWING SH. REV.	
001-1456-003		UNIT OF MEAS. C 423-6125-003 of 1 B	



PRESS BRAKE

RELAY ENCLOSURE

SECOND AXIS

CONTROL ENCLOSURE

P4	WHITE			P9
1	RED	X	X	1
2	BLACK			2
3	WHITE			3
4	BLACK			4
5	GREEN			5
6	BLACK			6
7	BLUE			7
8	BLACK			8
9	RED			9
10	BLACK			10
11	ORANGE			11
12	BLACK			12
13	BROWN			13
14	YELLOW			14
15	BLACK			15
16	NC			16

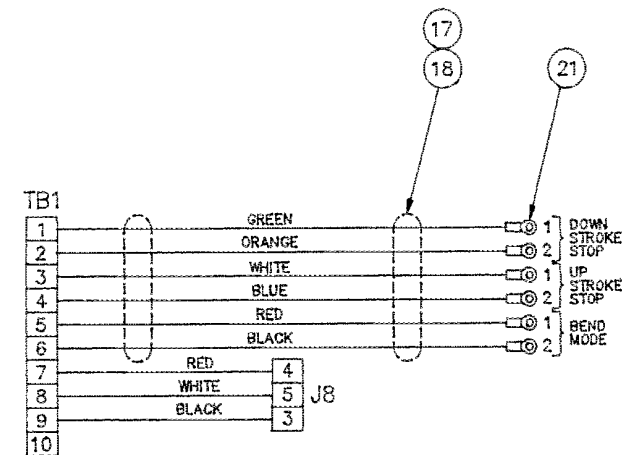
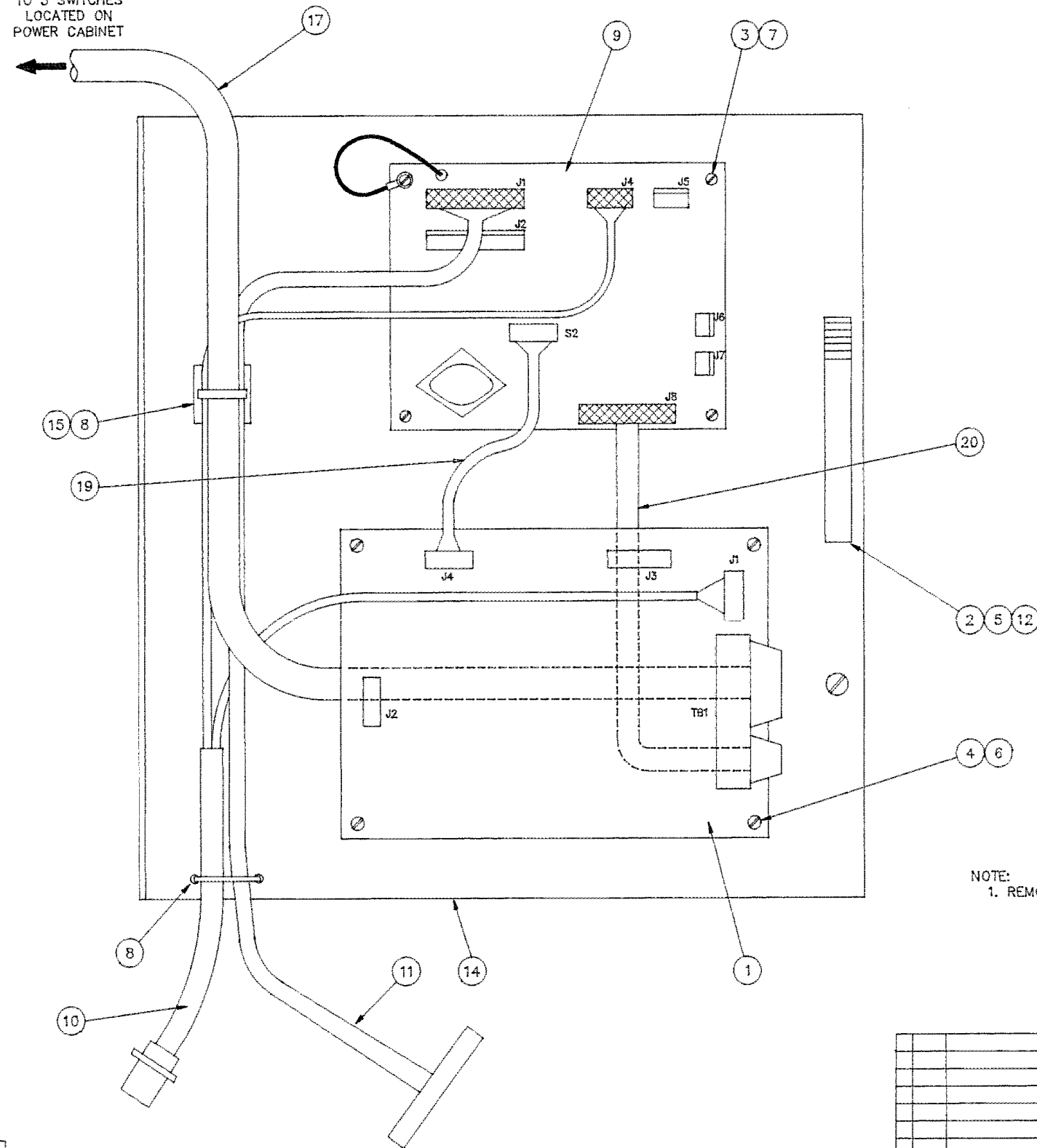
KEY

QTY	PART NUMBER	ITEM DESCRIPTION	ITEM
1	406-0803-510	KEYING PLUG, CPC	7
37	406-7501-009	CONTACT, SOCKET	6
2	406-0481-003	PLUG, STD SEX, 16 PIN	5
2	406-1484-004	CABLE, 8 PAIR / 18 GA.	4
2	406-0965-001	SEAL, CABLE	3
2	406-7505-003	CLAMP, CABLE	2
2	406-0964-001	BACKSHELL EXTENDER	1

REV	REV	DATE	CHK	DATE	APPR	DATE	OF	001-1419-025
C	9241	DELETE ITEM 3. ADD ITEMS 1 AND 2						
F	8726							
A	8656	ORIGINAL ISSUE						

SURFACE TREATMENT	EXCEPT AS NOTED	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
NONE	ALL DIMENSIONS IN INCHES TOLERANCES DECIMAL 0 ±.030 00 ±.015 000 ±.005 0000 ±.0005 ANGULAR ±0°30'	DESCRIPTION CABLE, PRESS BRAKE INTERFACE 150190	
HEAT TREATMENT	NONE	DRAWN JRB DATE 12 MAR '85 CHECKED DATE APPROVED DATE 12 MAR '85	
FIRST USED ON	THIRD ANGLE PROJECTION	SCALE NONE UNIT OF MEAS PL	
C 423-0078003 of 7		C	

TO 3 SWITCHES
LOCATED ON
POWER CABINET



NOTE:
1. REMOVE S2 FROM ITEM 9 AND R.T.S.

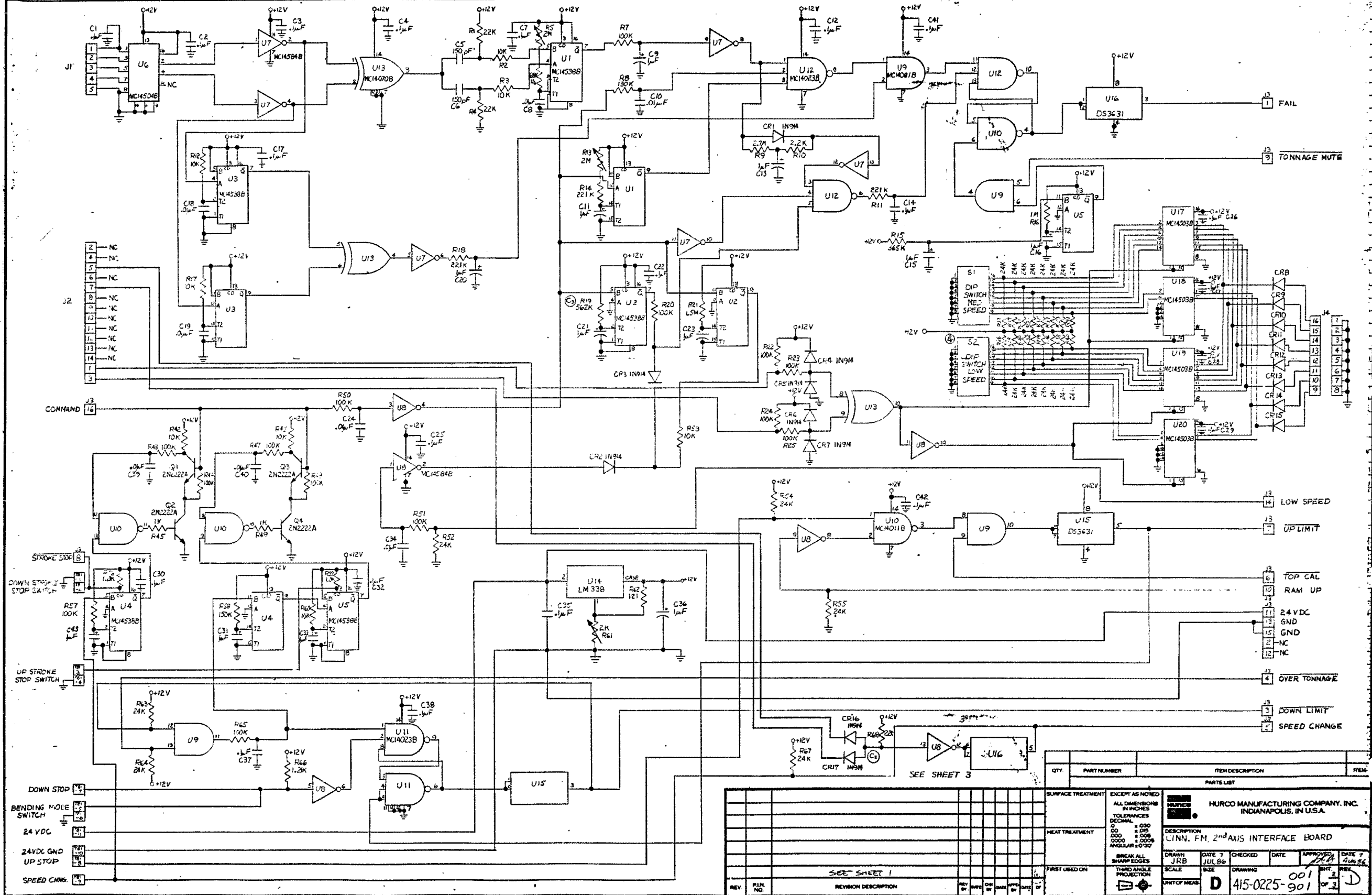
6.00	PC	406-7001-008	RING TONGUE, #10	21
1.00	PC	423-0117-002	CABLE, 2ND AXIS CONTROL CINN. FM	20
1.00	PC	423-0117-001	CABLE, OVERSHOOT COMPEN. CINN. FM	19
4.00	IN	406-6481-005	HEATSHRINK, 3/8" BLACK	18
3.00	FT	406-1326-002	CABLE, 20 AWG 6 COND. SHLD.	17
1.00	PC	703-1001-084	LABEL, RELAY BOX	16
1.00	PC	408-5001-012	TIE MOUNT, BAR LOCK	15
1.00	PC	801-0817-001	PANEL, OPT. HYD/M-STOP	14
1.00	PC	708-0001-012	DRUM LINER, VELOSTAT 24 X 36	13
1.00	PC	603-0521-008	HANDLE, BLACK	12
1.00	PC	423-6220-002	HARNESS, PERIPH. 2 AXIS	11
1.00	PC	423-0117-004	HARNESS, ENCODER, CIN FM	10
1.00	PC	415-0121-001	PCB, SMART HYD M-STOP	9
2.00	PC	406-5001-006	TIE WRAP, MEDIUM	8
4.00	PC	110-0140-006	STANDOFF, M4-10	7
4.00	PC	110-0140-001	STANDOFF, M5 X 40MM HEX	6
3.00	PC	110-0062-001	LOCKWASHER, #4 INTERNAL	5
4.00	PC	109-5011-003	PHMS, M5 X 0.8 P X 10 LG	4
4.00	PC	109-5010-003	PHMS, M4 X 0.7 P X 10 LG	3
3.00	PC	108-5002-002	BHSCS, M4 X 0.7 P X 10 LG	2
1.00	PC	415-0226-001	RELAY PANEL ASSY	1

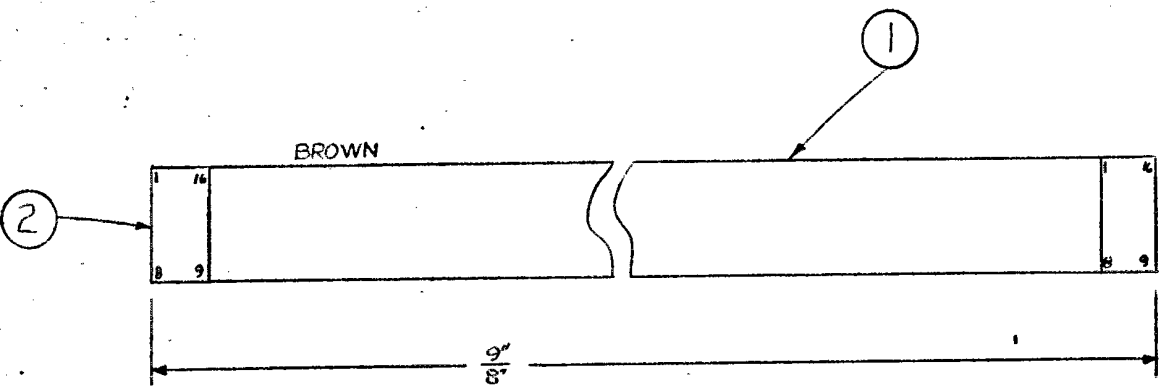
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
6.00	PC	406-7001-008 RING TONGUE, #10	21
1.00	PC	423-0117-002 CABLE, 2ND AXIS CONTROL CINN. FM	20
1.00	PC	423-0117-001 CABLE, OVERSHOOT COMPEN. CINN. FM	19
4.00	IN	406-6481-005 HEATSHRINK, 3/8" BLACK	18
3.00	FT	406-1326-002 CABLE, 20 AWG 6 COND. SHLD.	17
1.00	PC	703-1001-084 LABEL, RELAY BOX	16
1.00	PC	408-5001-012 TIE MOUNT, BAR LOCK	15
1.00	PC	801-0817-001 PANEL, OPT. HYD/M-STOP	14
1.00	PC	708-0001-012 DRUM LINER, VELOSTAT 24 X 36	13
1.00	PC	603-0521-008 HANDLE, BLACK	12
1.00	PC	423-6220-002 HARNESS, PERIPH. 2 AXIS	11
1.00	PC	423-0117-004 HARNESS, ENCODER, CIN FM	10
1.00	PC	415-0121-001 PCB, SMART HYD M-STOP	9
2.00	PC	406-5001-006 TIE WRAP, MEDIUM	8
4.00	PC	110-0140-006 STANDOFF, M4-10	7
4.00	PC	110-0140-001 STANDOFF, M5 X 40MM HEX	6
3.00	PC	110-0062-001 LOCKWASHER, #4 INTERNAL	5
4.00	PC	109-5011-003 PHMS, M5 X 0.8 P X 10 LG	4
4.00	PC	109-5010-003 PHMS, M4 X 0.7 P X 10 LG	3
3.00	PC	108-5002-002 BHSCS, M4 X 0.7 P X 10 LG	2
1.00	PC	415-0226-001 RELAY PANEL ASSY	1

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
6.00	PC	406-7001-008 RING TONGUE, #10	21
1.00	PC	423-0117-002 CABLE, 2ND AXIS CONTROL CINN. FM	20
1.00	PC	423-0117-001 CABLE, OVERSHOOT COMPEN. CINN. FM	19
4.00	IN	406-6481-005 HEATSHRINK, 3/8" BLACK	18
3.00	FT	406-1326-002 CABLE, 20 AWG 6 COND. SHLD.	17
1.00	PC	703-1001-084 LABEL, RELAY BOX	16
1.00	PC	408-5001-012 TIE MOUNT, BAR LOCK	15
1.00	PC	801-0817-001 PANEL, OPT. HYD/M-STOP	14
1.00	PC	708-0001-012 DRUM LINER, VELOSTAT 24 X 36	13
1.00	PC	603-0521-008 HANDLE, BLACK	12
1.00	PC	423-6220-002 HARNESS, PERIPH. 2 AXIS	11
1.00	PC	423-0117-004 HARNESS, ENCODER, CIN FM	10
1.00	PC	415-0121-001 PCB, SMART HYD M-STOP	9
2.00	PC	406-5001-006 TIE WRAP, MEDIUM	8
4.00	PC	110-0140-006 STANDOFF, M4-10	7
4.00	PC	110-0140-001 STANDOFF, M5 X 40MM HEX	6
3.00	PC	110-0062-001 LOCKWASHER, #4 INTERNAL	5
4.00	PC	109-5011-003 PHMS, M5 X 0.8 P X 10 LG	4
4.00	PC	109-5010-003 PHMS, M4 X 0.7 P X 10 LG	3
3.00	PC	108-5002-002 BHSCS, M4 X 0.7 P X 10 LG	2
1.00	PC	415-0226-001 RELAY PANEL ASSY	1

REVISION	DATE	BY	DESCRIPTION
1	12/12/27	AB5C W/168	REVISED AND REDRAWN TO CAD

CN
AB092

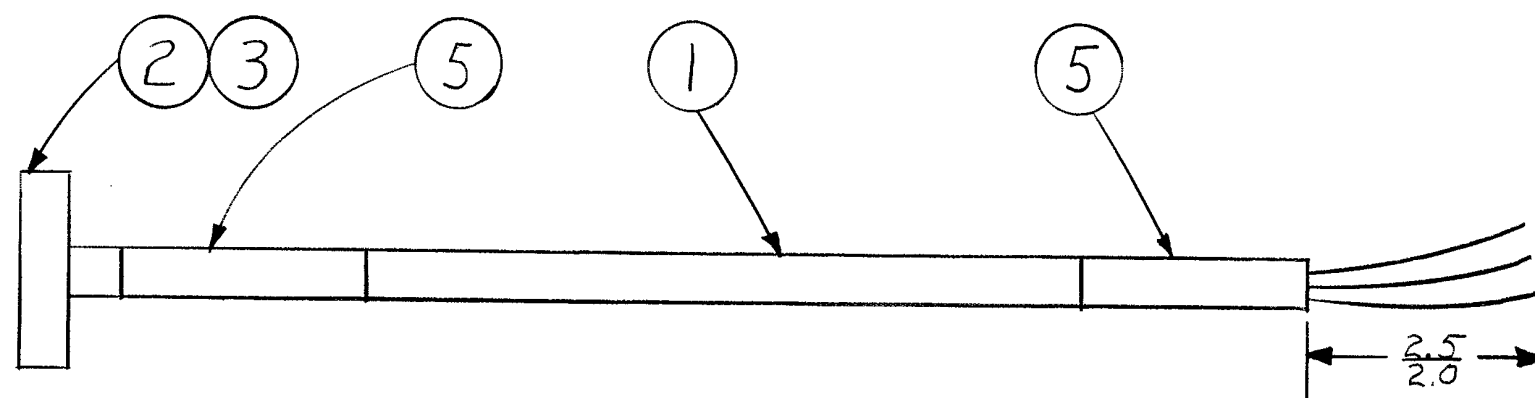




1	RED	1
2		2
3		3
4		4
5		5
6		6
7		7
8		8
9		9
10		10
11		11
12		12
13		13
14		14
15		15
16	BRN	16

2	406-0802-001	CONNECTOR, DIP 16 POS	2
8"	406-1559-001	CABLE, RIBBON 16 COND.	1
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
SURFACE TREATMENT		EXCEPT AS NOTED:	
N/A		ALL DIMENSIONS IN INCHES	
HEAT TREATMENT		TOLERANCES DECIMAL	
N/A		0 ±.030	
		.00 ±.015	
		.000 ±.005	
		.0000 ±.0005	
		ANGULAR ±0°30'	
		BREAK ALL SHARP EDGES	
FIRST USED ON		THIRD ANGLE PROJECTION	
001-1417-014		SCALE NONE	
		UNIT OF MEAS. PC	
		DRAWN JRB	
		DATE 11 AUG 86	
		CHECKED	
		DATE	
		APPROVED	
		DATE 11 AUG 86	
		SCALE	
		DRAWING	
		C 423-0117-001	
		REV. 1 A	

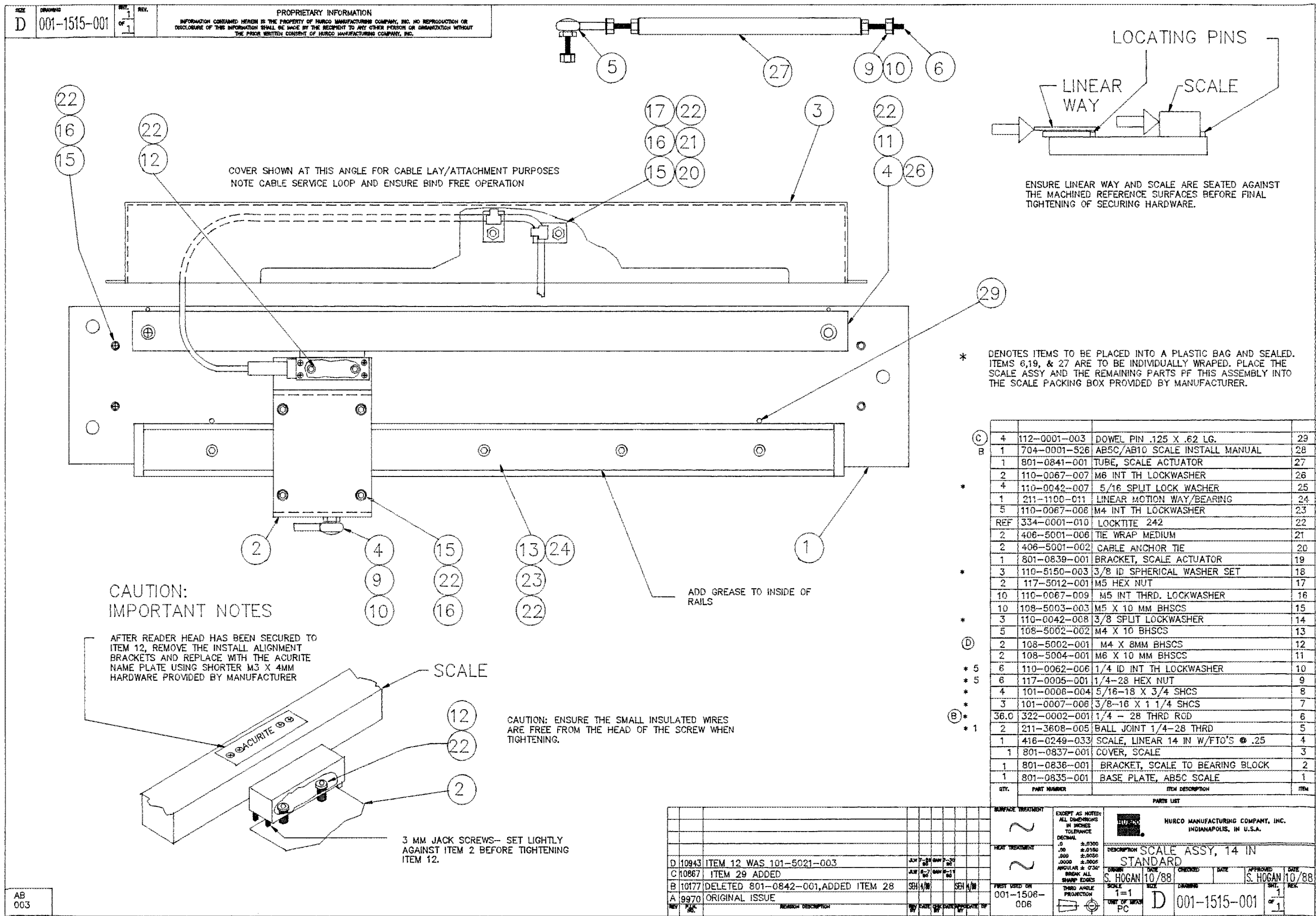
REV.	P.I.N. NO.	REVISION DESCRIPTION	REV. BY	DATE	CHK BY	DATE	APPD BY	DATE	OF
A	0169	ISSUE							

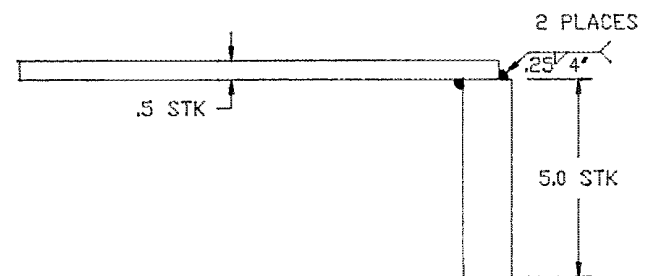


1	
2	
3	BLK
4	RED
5	WHT
6	
7	BLU
8	ORG
9	BRN
10	
11	KEY
12	

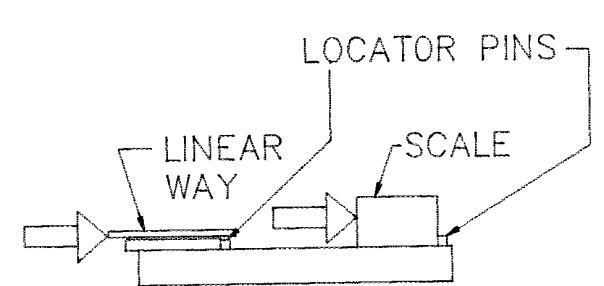
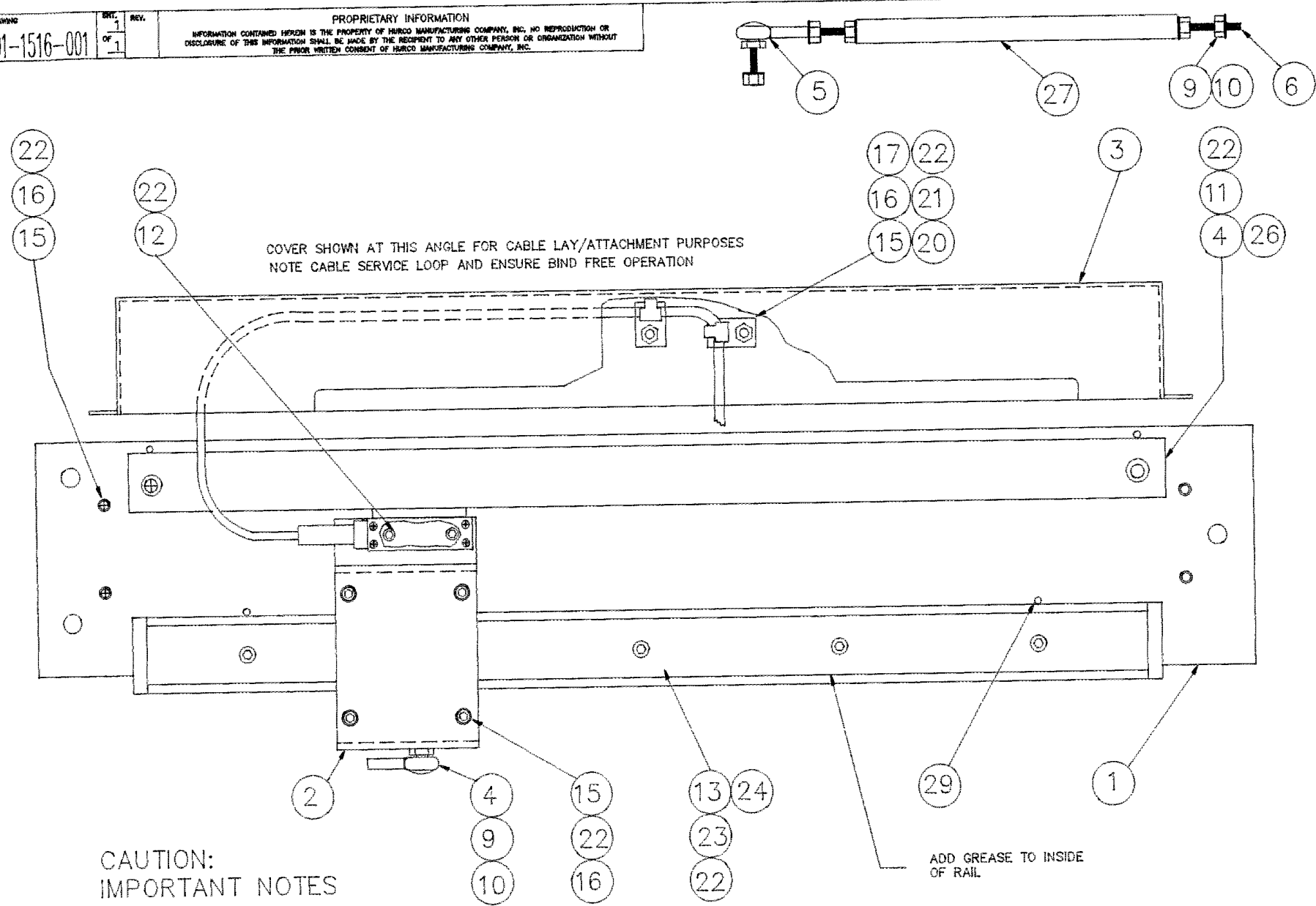
1. LEAVE ONLY THE BLK, RED, AND WHT WIRES
EXTENDING FROM THE CABLE, CUT THE REST
OFF AT THE JACKET.

4"	406-6481-006	HEAT SHRINK 1/2	5
1	406-0803-086	KEYING PLUG	4
1	406-0803-084	COVER	3
1	406-0803-078	CONNECTOR, 12 POS MTA 18 AWG	2
18"	406-1327-002	CABLE, 7 COND. 18 AWG	1
QTY	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
SURFACE TREATMENT		EXCEPT AS NOTED	
N/A		 HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT		DESCRIPTION	
N/A		CABLE, 2 nd AXIS CONTROL	
FIRST USED ON		DRAWN	DATE
001-1417-014		JRB	26 AUG 86
THIRD ANGLE PROJECTION		CHECKED	DATE
		APPROVED	DATE
		B	1 SEP 86
UNIT OF MEAS		DRAWING	SHT
PC		423-0117-002	1
			OF 1
			A





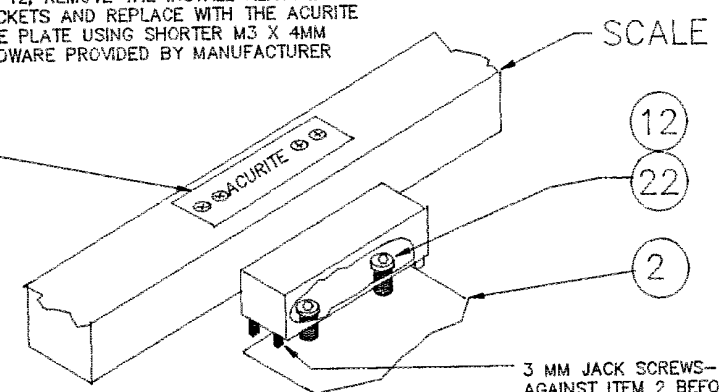
SURFACE TREATMENT	EXCEPT AS NOTED ALL DIMENSIONS IN HIGHEST TOLERANCE DECIMAL		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
	.00 .0000 .01 .0050 .02 .0100 .03 .0150 .04 .0200 .05 .0250 .06 .0300 .07 .0350 .08 .0400 .09 .0450 .10 .0500 .12 .0600 .15 .0750 .20 .1000 .25 .1250 .30 .1500 .35 .1750 .40 .2000 .45 .2250 .50 .2500 .55 .2750 .60 .3000 .65 .3250 .70 .3500 .75 .3750 .80 .4000 .85 .4250 .90 .4500 .95 .4750 1.00 .5000 1.125 .5625 1.25 .6250 1.375 .6875 1.50 .7500 1.625 .8125 1.75 .8750 1.875 .9375 2.00 1.0000 2.125 1.0625 2.25 1.1250 2.375 1.1875 2.50 1.2500 2.625 1.3125 2.75 1.3750 2.875 1.4375 3.00 1.5000 3.125 1.5625 3.25 1.6250 3.375 1.6875 3.50 1.7500 3.625 1.8125 3.75 1.8750 3.875 1.9375 4.00 2.0000 4.125 2.0625 4.25 2.1250 4.375 2.1875 4.50 2.2500 4.625 2.3125 4.75 2.3750 4.875 2.4375 5.00 2.5000 5.125 2.5625 5.25 2.6250 5.375 2.6875 5.50 2.7500 5.625 2.8125 5.75 2.8750 5.875 2.9375 6.00 3.0000 6.125 3.0625 6.25 3.1250 6.375 3.1875 6.50 3.2500 6.625 3.3125 6.75 3.3750 6.875 3.4375 7.00 3.5000 7.125 3.5625 7.25 3.6250 7.375 3.6875 7.50 3.7500 7.625 3.8125 7.75 3.8750 7.875 3.9375 8.00 4.0000 8.125 4.0625 8.25 4.1250 8.375 4.1875 8.50 4.2500 8.625 4.3125 8.75 4.3750 8.875 4.4375 9.00 4.5000 9.125 4.5625 9.25 4.6250 9.375 4.6875 9.50 4.7500 9.625 4.8125 9.75 4.8750 9.875 4.9375 10.00 5.0000 10.125 5.0625 10.25 5.1250 10.375 5.1875 10.50 5.2500 10.625 5.3125 10.75 5.3750 10.875 5.4375 11.00 5.5000 11.125 5.5625 11.25 5.6250 11.375 5.6875 11.50 5.7500 11.625 5.8125 11.75 5.8750 11.875 5.9375 12.00 6.0000 12.125 6.0625 12.25 6.1250 12.375 6.1875 12.50 6.2500 12.625 6.3125 12.75 6.3750 12.875 6.4375 13.00 6.5000 13.125 6.5625 13.25 6.6250 13.375 6.6875 13.50 6.7500 13.625 6.8125 13.75 6.8750 13.875 6.9375 14.00 7.0000 14.125 7.0625 14.25 7.1250 14.375 7.1875 14.50 7.2500 14.625 7.3125 14.75 7.3750 14.875 7.4375 15.00 7.5000 15.125 7.5625 15.25 7.6250 15.375 7.6875 15.50 7.7500 15.625 7.8125 15.75 7.8750 15.875 7.9375 16.00 8.0000 16.125 8.0625 16.25 8.1250 16.375 8.1875 16.50 8.2500 16.625 8.3125 16.75 8.3750 16.875 8.4375 17.00 8.5000 17.125 8.5625 17.25 8.6250 17.375 8.6875 17.50 8.7500 17.625 8.8125 17.75 8.8750 17.875 8.9375 18.00 9.0000 18.125 9.0625 18.25 9.1250 18.375 9.1875 18.50 9.2500 18.625 9.3125 18.75 9.3750 18.875 9.4375 19.00 9.5000 19.125 9.5625 19.25 9.6250 19.375 9.6875 19.50 9.7500 19.625 9.8125 19.75 9.8750 19.875 9.9375 20.00 10.0000 20.125 10.0625 20.25 10.1250 20.375 10.1875 20.50 10.2500 20.625 10.3125 20.75 10.3750 20.875 10.4375 21.00 10.5000 21.125 10.5625 21.25 10.6250 21.375 10.6875 21.50 10.7500 21.625 10.8125 21.75 10.8750 21.875 10.9375 22.00 11.0000 22.125 11.0625 22.25 11.1250 22.375 11.1875 22.50 11.2500 22.625 11.3125 22.75 11.3750 22.875 11.4375 23.00 11.5000 23.125 11.5625 23.25 11.6250 23.375 11.6875 23.50 11.7500 23.625 11.8125 23.75 11.8750 23.875 11.9375 24.00 12.0000 24.125 12.0625 24.25 12.1250 24.375 12.1875 24.50 12.2500 24.625 12.3125 24.75 12.3750 24.875 12.4375 25.00 12.5000 25.125 12.5625 25.25 12.6250 25.375 12.6875 25.50 12.7500 25.625 12.8125 25.75 12.8750 25.875 12.9375 26.00 13.0000 26.125 13.0625 26.25 13.1250 26.375 13.1875 26.50 13.2500 26.625 13.3125 26.75 13.3750 26.875 13.4375 27.00 13.5000 27.125 13.5625 27.25 13.6250 27.375 13.6875 27.50 13.7500 27.625 13.8125 27.75 13.8750 27.875 13.9375 28.00 14.0000 28.125 14.0625 28.25 14.1250 28.375 14.1875 28.50 14.2500 28.625 14.3125 28.75 14.3750 28.875 14.4375 29.00 14.5000 29.125 14.5625 29.25 14.6250 29.375 14.6875 29.50 14.7500 29.625 14.8125 29.75 14.8750 29.875 14.9375 30.00 15.0000 30.125 15.0625 30.25 15.1250 30.375 15.1875 30.50 15.2500 30.625 15.3125 30.75 15.3750 30.875 15.4375 31.00 15.5000 31.125 15.5625 31.25 15.6250 31.375 15.6875 31.50 15.7500 31.625 15.8125 31.75 15.8750 31.875 15.9375 32.00 16.0000 32.125 16.0625 32.25 16.1250 32.375 16.1875 32.50 16.2500 32.625 16.3125 32.75 16.3750 32.875 16.4375 33.00 16.5000 33.125 16.5625 33.25 16.6250 33.375 16.6875 33.50 16.7500 33.625 16.8125 33.75 16.8750 33.875 16.9375 34.00 17.0000 34.125 17.0625 34.25 17.1250 34.375 17.1875 34.50 17.2500 34.625 17.3125 34.75 17.3750 34.875 17.4375 35.00 17.5000 35.125 17.5625 35.25 17.6250 35.375 17.6875 35.50 17.7500 35.625 17.8125 35.75 17.8750 35.875 17.9375 36.00 18.0000 36.125 18.0625 36.25 18.1250 36.375 18.1875 36.50 18.2500 36.625 18.3125 36.75 18.3750 36.875 18.4375 37.00 18.5000 37.125 18.5625 37.25 18.6250 37.375 18.6875 37.50 18.7500 37.625 18.8125 37.75 18.8750 37.875 18.9375 38.00 19.0000 38.125 19.0625 38.25 19.1250 38.375 19.1875 38.50 19.2500 38.625 19.3125 38.75 19.3750 38.875 19.4375 39.00 19.5000 39.125 19.5625 39.25 19.6250 39.375 19.6875 39.50 19.7500 39.625 19.8125 39.75 19.8750 39.875 19.9375 40.00 20.0000 40.125 20.0625 40.25 20.1250 40.375 20.1875 40.50 20.2500 40.625 20.3125 40.75 20.3750 40.875 20.4375 41.00 20.5000 41.125 20.5625 41.25 20.6250 41.375 20.6875 41.50 20.7500 41.625 20.8125 41.75 20.8750 41.875 20.9375 42.00 21.0000 42.125 21.0625 42.25 21.1250 42.375 21.1875 42.50 21.2500 42.625 21.3125 42.75 21.3750 42.875 21.4375 43.00 21.5000 43.125 21.5625 43.25 21.6250 43.375 21.6875 43.50 21.7500 43.625 21.8125 43.75 21.8750 43.875 21.9375 44.00 22.0000 44.125 22.0625 44.25 22.1250 44.375 22.1875 44.50 22.2500 44.625 22.3125 44.75 22.3750 44.875 22.4375 45.00 22.5000 45.125 22.5625 45.25 22.6250 45.375 22.6875 45.50 22.7500 45.625 22.8125 45.75 22.8750 45.875 22.9375 46.00 23.0000 46.125 23.0625 46.25 23.1250 46.375 23.1875 46.50 23.2500 46.625 23.3125 46.75 23.3750 46.875 23.4375 47.00 23.5000 47.125 23.5625 47.25 23.6250 47.375 23.6875 47.50 23.7500 47.625 23.8125 47.75 23.8750 47.875 23.9375 48.00 24.0000 48.125 24.0625 48.25 24.1250 48.375 24.1875 48.50 24.2500 48.625 24.3125 48.75 24.3750 48.875 24.4375 49.00 24.5000 49.125 24.5625 49.25 24.6250 49.375 24.6875 49.50 24.7500 49.625 24.8125 49.75 24.8750 49.875 24.9375 50.00 25.0000 50.125 25.0625 50.25 25.1250 50.375 25.1875 50.50 25.2500 50.625 25.3125 50.75 25.3750 50.875 25.4375 51.00 25.5000 51.125 25.5625 51.25 25.6250 51.375 25.6875 51.50 25.7500 51.625 25.8125 51.75 25.8750 51.875 25.9375 52.00 26.0000 52.125 26.0625 52.25 26.1250 52.375 26.1875 52.50 26.2500 52.625 26.3125 52.75 26.3750 52.875 26.4375 53.00 26.5000 53.125 26.5625 53.25 26.6250 53.375 26.6875 53.50 26.7500 53.625 26.8125 53.75 26.8750 53.875 26.9375 54.00 27.0000 54.125 27.0625 54.25 27.1250 54.375 27.1875 54.50 27.2500 54.625 27.3125 54.75 27.3750 54.875 27.4375 55.00 27.5000 55.125 27.5625 55.25 27.6250 55.375 27.6875 55.50 27.7500 55.625 27.8125 55.75 27.8750 55.875 27.9375 56.00 28.0000 56.125 28.0625 56.25 28.1250 56.375 28.1875 56.50 28.2500 56.625 28.3125 56.75 28.3750 56.875 28.4375 57.00 28.5000 57.125 28.5625 57.25 28.6250 57.375 28.6875 57.50 28.7500 57.625 28.8125 57.75 28.8750 57.875 28.9375 58.00 29.0000 58.125 29.0625 58.25 29.1250 58.375 29.1875 58.50 29.2500 58.625 29.3125 58.75 29.3750 58.875 29.4375 59.00 29.5000 59.125 29.5625 59.25 29.6250 59.375 29.6875 59.50 29.7500 59.625 29.8125 59.75 29.8750 59.875 29.9375 60.00 30.0000 60.125 30.0625 60.25 30.1250 60.375 30.1875 60.50 30.2500 60.625 30.3125 60.75 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* DENOTES ITEMS TO BE PLACED INTO A PLASTIC BAG AND SEALED. ITEMS 6, 19, & 27 ARE TO BE INDIVIDUALLY WRAPPED. PLACE THE SCALE ASSY AND THE REMAINING PARTS OF THIS ASSEMBLY INTO THE SCALE PACKING BOX PROVIDED BY MANUFACTURER.

CAUTION: IMPORTANT NOTES

AFTER READER HEAD HAS BEEN SECURED TO ITEM 12, REMOVE THE INSTALL ALIGNMENT BRACKETS AND REPLACE WITH THE ACURITE NAME PLATE USING SHORTER M3 X 4MM HARDWARE PROVIDED BY MANUFACTURER

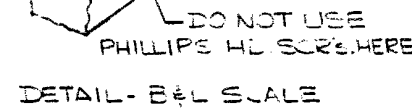
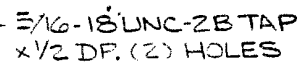


CAUTION: ENSURE THE SMALL INSULATED WIRES ARE FREE FROM THE HEAD OF THE SCREW WHEN TIGHTENING.

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
4	112-0001-003	DOWEL PIN .125 X .62 LG.	29
1	704-0001-526	AB5C/AB10 SCALE INSTALL MANUAL	28
1	801-0841-001	TUBE, SCALE ACTUATOR	27
2	110-0067-007	M6 INT TH LOCKWASHER	26
4	110-0042-007	5/16 SPLIT LOCKWASHER	25
1	211-1100-012	LINEAR MOTION WAY/BEARING	24
7	110-0067-006	M4 INT TH LOCKWASHER	23
REF	334-0001-010	LOCKTITE 242	22
2	406-5001-006	TIE WRAP MEDIUM	21
2	406-5001-002	CABLE ANCHOR TIE	20
1	801-0839-001	BRACKET, SCALE ACTUATOR	19
3	110-5150-003	3/8 ID SPHERICAL WASHER SET	18
2	117-5012-001	M5 HEX NUT	17
10	110-0067-009	M5 INT. TH LOCKWASHER	16
10	108-5003-003	M5 X 10 MM BHSCS	15
3	110-0042-008	3/8 SPLIT LOCKWASHER	14
7	108-5002-002	M4 X 10 BHSCS	13
2	108-5002-001	M4 X 8MM BHSCS	12
2	108-5004-001	M6 X 10 MM BHSCS	11
5	110-0062-006	1/4 ID INT TH LOCKWASHER	10
5	117-0005-001	1/4-28 HEX NUT	9
4	101-0006-004	5/16-18 X 3/4 SHCS	8
3	101-0007-006	3/8-16 X 1 1/4 SHCS	7
36.0	322-0002-001	1/4-28 THRD STEEL ROD	6
2	211-3608-005	BALL JOINT 1/4-28 THRD	5
1	416-0249-034	SCALE, LINEAR 20 IN W/FTO'S @ .25	4
1	801-0837-002	COVER, SCALE 20"	3
1	801-0836-001	BRACKET, SCALE TO BEARING BLOCK	2
1	801-0835-002	BASE PLATE, AB5C SCALE 20"	1

SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
DECIMAL		.0000 ±.0000		DESCRIPTION SCALE ASSY, 20 IN STANDARD	
.0000 ±.0000		.0000 ±.0000		DATE 10/88	
.0000 ±.0000		.0000 ±.0000		CHECKED S. HOGAN	
.0000 ±.0000		.0000 ±.0000		DATE 10/88	
.0000 ±.0000		.0000 ±.0000		APPROVED S. HOGAN	
.0000 ±.0000		.0000 ±.0000		DATE 10/88	
.0000 ±.0000		.0000 ±.0000		REV. 1	
.0000 ±.0000		.0000 ±.0000		PC 001-1516-001	
.0000 ±.0000		.0000 ±.0000		REV. 1	
.0000 ±.0000		.0000 ±.0000		REV. 1	

AB 005



SCALE	SIZE	DRAWING	SHT	REV
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C	6417	RED BROWN MOSS FROM LUTHERN MTS	2A	11
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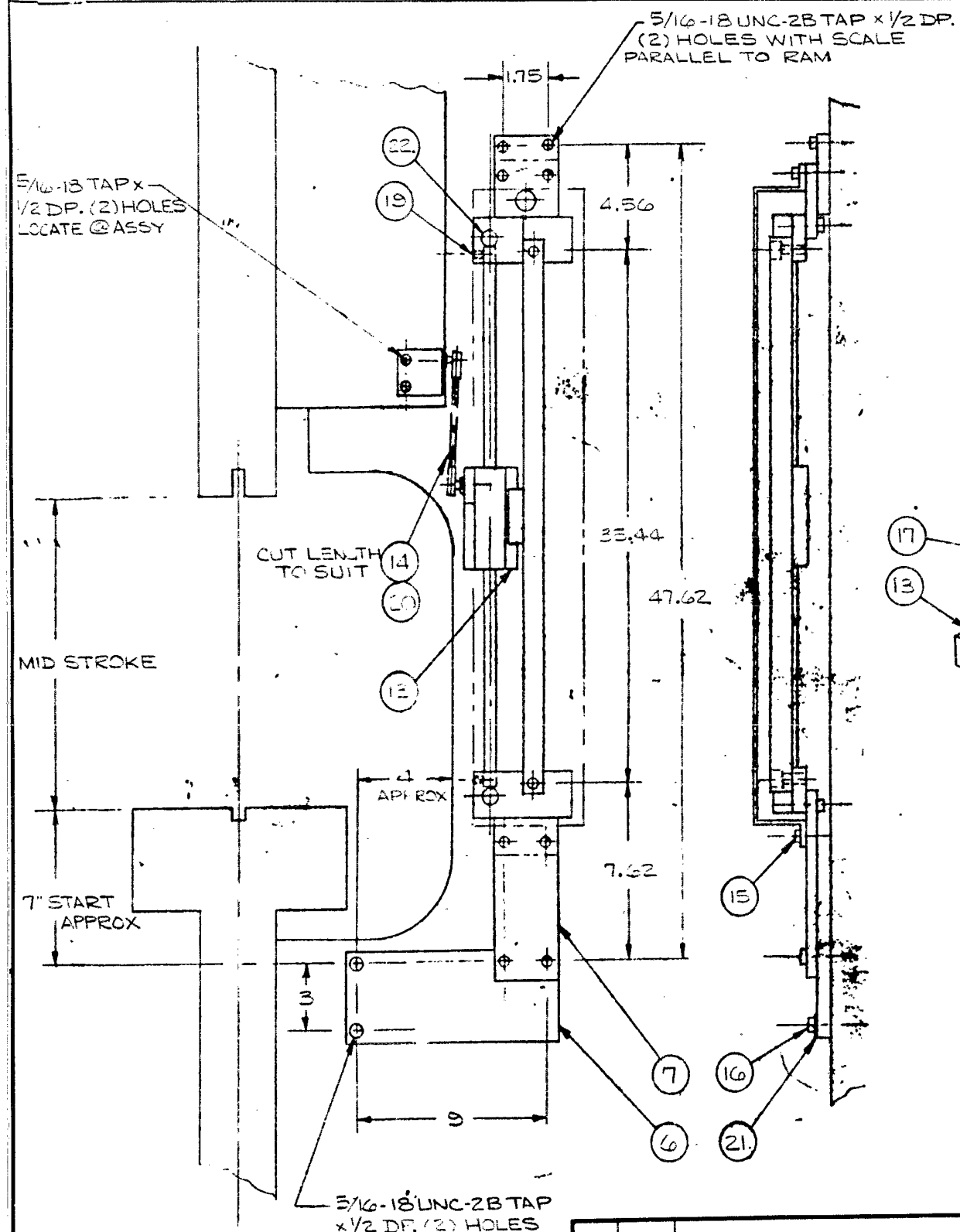
C

001-1165-005

OF 1

C

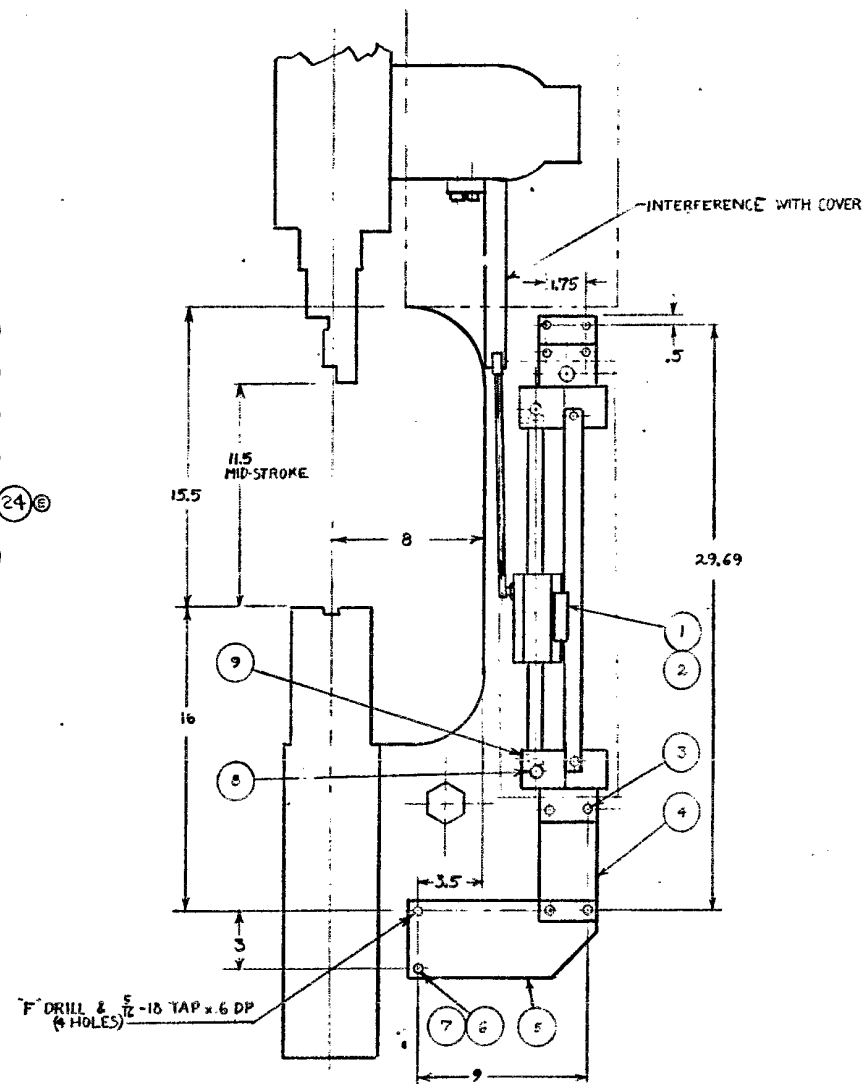
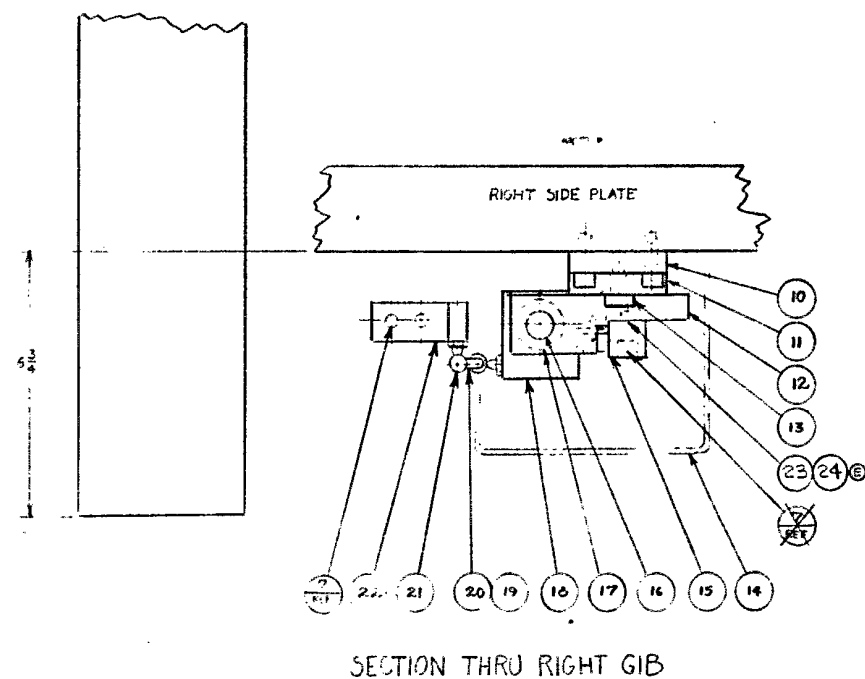
INFORMATION CONTAINED HEREIN IS THE PROPERTY OF HURCO MANUFACTURING COMPANY, INC. NO REPRODUCTION OR DISCLOSURE OF THIS INFORMATION SHALL BE MADE BY THE RECIPIENT TO ANY OTHER PERSON OR ORGANIZATION WITHOUT THE PRIOR WRITTEN CONSENT OF HURCO MANUFACTURING COMPANY, INC.



REF	ITEM	DESCRIPTION	ITEM
23	101-0009-007	1/2-18 x 1 1/2 SHCS	22
21	110-0001-007	5/16 V.WASHER	21
20	117-0005-001	1/4-28 HEX NUT	20
19	103-0122-008	1/4-28 x 3/8 SS NYLON	19
18	105-0004-001	1/2 DIA. x 1/2 S.H. SHOULDER SCREW	18
17	101-0003-003	#8-32 x 1/2 SHCS	17
16	101-0003-005	5/16-18 x 1 SHCS	16
15	101-0000-004	5/16-18 x 3/4 SHCS	15
14	322-0002-001	1/4-28 THREADED ROD	14
13	301-0229-001	SLIDE BLOCK SPACER	13
12	301-0330-001	BALL JOINT SPACER	12
11	210-0045-005	THOMSON ROD, 3/4 DIA. x 35 7/8	11
10	213-003-005	1/4-28 BALL JOINT	10
9	416-0243-024	30" LINEAR SCALE W/FTO'S AT 1/4" INTERVALS	9
8	301-0055-005	GUARD	8
7	301-0292-001	LOWER BAR	7
6	301-0291-001	LOCATOR BRACKET	6
5	301-0285-001	TOP BLOCK	5
4	301-0284-001	TOP MOUNTING BLOCK	4
3	301-0350-001	THOMSON PILLOW BLOCK	3
2	301-0282-002	GIB MOUNTING	2
1	301-0281-001	SCALE BRACKET	1

QTY	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
SURFACE TREATMENT			
NONE			
HEAT TREATMENT			
NONE			
FIRST USED ON			
001-1419			
EXCEPT AS NOTED			
ALL DIMENSIONS IN INCHES			
TOLERANCES			
DECIMAL			
0			
0.030			
0.015			
0.005			
0.0005			
ANGULAR			
0.30			
BREAK ALL SHARP EDGES			
THIRD ANGLE PROJECTION			
HURCO			
HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.			
DESCRIPTION			
30" GLASS SCALE ASSEMBLY WITH MULTIPLE FTO'S			
DRAWN			
E.K.			
DATE			
12 JAN 83			
CHECKED			
J.A.S.			
DATE			
13 JAN 83			
APPROVED			
G.B.			
DATE			
21 MAR 83			
SCALE			
NONE			
UNIT OF MEAS.			
PC			
C 001-1165-005			
OF 1			
2			

REV	PIN NO	REVISION DESCRIPTION	REV BY	DATE	APP BY	DATE	IN
C	8467	REDRAWN, MOVED FROM L.H. TO R.H. MTG.					



F⁷ DRILL & $\frac{5}{16}$ -18 TAP x .6 DP
(6 HOLES)

001-1171-001: WITHOUT MULTIPLE FTO'S, 12"
001-1171-002: WITH MULTIPLE FTO'S, 12"
001-1171-003: WITH MULTIPLE FTO'S, 18"

QTY	UNIT	REF	PART NO.	DESCRIPTION	ITEM
2	2	2	REF	M4 x 10 (REC'D W/ SCALE)	24
-	2	2	801-0373-001	SSG ADAPTER $\frac{5}{16}$ -18 TO M4-.7	23
1	-	-	210-0045-002	THOMPSON ROD	16
1	-	-	416-0249-022	18" LINEAR SCALE W/ MULTIPLE FTO'S	15
1	-	-	901-0072-002	GUARD	14
1	1	1	801-0063-001	GIB MTG	22
2	2	2	211-3608-005	$\frac{1}{2}$ -25 BALL JOINT	21
12	12	12	322-0002-001	$\frac{3}{8}$ -28 THD ROD	20
2	2	2	117-0005-001	$\frac{1}{2}$ -28 HEX NUT	19
1	1	1	801-0350-001	BALL JOINT SPACER	18
1	1	1	801-0350-001	PILLOW BLOCK-THOMPSON	17
-	1	1	210-0045-002	THOMPSON ROD $\frac{3}{8}$ DIA x 18	16
-	1	1	416-0249-021	12" LINEAR SCALE W/ FTO'S AT .25" INTERVALS	15
-	-	1	416-0249-006	12" LINEAR SCALE	15
-	1	1	901-0055-002	GUARD	14
1	1	1	85-0004-001	$\frac{1}{2}$ DIA x $\frac{1}{2}$ SHOULDER SCREW	13
2	2	2	801-0281-001	GLASS SCALE BRKT	12
1	1	1	801-0285-001	TOP BLOCK	11
1	1	1	801-0284-001	TOP MTG BLOCK	10
2	2	2	103-0122-009	$\frac{1}{2}$ -28 x $\frac{3}{4}$ SSBN	9
2	2	2	101-0009-007	$\frac{1}{2}$ -13 x $\frac{1}{2}$ SHCS	8
12	12	12	101-0006-006	$\frac{1}{2}$ -18 x 1 SHCS	7
4	4	4	110-0001-007	$\frac{1}{2}$ WASHER	6
1	1	1	801-0291-001	LOCATOR DRAKNET	5
1	1	1	801-0292-001	LOWER BAR	4
4	4	4	101-0006-004	$\frac{1}{2}$ -18 x $\frac{3}{4}$ SHCS	3
2	2	2	108-0084-003	10-32 x $\frac{1}{2}$ BHSCS	2
1	1	1	801-0329-001	SLIDE BLOCK SPACER	1

								003 002 001															
								SURFACE TREATMENT								RECD PART NO. DESCRIPTION ITEM							
								NONE								BILL OF MATERIAL							
								HEAT TREATMENT								EXCEPT AS NOTED:							
								NONE								TOLERANCES DIMINAL J .250 K .250 M .250 N .250 P .250 Q .250 R .250 S .250 T .250 U .250 V .250 W .250 X .250 Y .250 Z .250							
								ASSEMBLY NO.								BREAK ALL SHARP EDGES THIN ANGLE R .250 							

PARTS LISTINGS & WIRING DIAGRAMS

For

AUTOBEND 5C/TWO AXIS SYSTEMS

704-0001-642 February, 1993
Autobend 5C
Revision A

SAFETY PRECAUTIONS

Service personnel must be continuously alert to the practice of all necessary safety rules and precautions when servicing this equipment. Always observe the following safety precautions.

- **Always** disconnect the power source before attempting maintenance or service on the machine.
- **Always** turn the main disconnect switch to the OFF position before removing or working on any circuit boards, switches, fuses, cables, or components within the Power and/or CNC Control cabinets.
- Whenever work is to be performed in an area away from the disconnect switch, post a 'warning' on/near the switch for others **not** to turn ON the power to the machine.
- If it becomes necessary to make any tests or checks with 'live' circuits, be extremely careful and follow all established safety practices. Remember, the 'line side' of the disconnect switch may be "hot" even though the switch is in the OFF position.

Important

Always wear the static control wrist strap when working inside the CNC control cabinet and avoid flexing the printed circuit boards (PCB's) when handling, removing, or inserting. Hairline cracks in the printed circuit etching may be the result of rough handling. These cracks are very difficult to isolate and often intermittent in operation.

Avoid touching the components ('devices') installed on a printed circuit board as static electricity may damage them!

PROPRIETARY INFORMATION

Information contained herein is the property of HURCO Manufacturing. No reproduction or disclosure of this information shall be made by the recipient to any other person or organization without the prior written consent of HURCO Companies, Inc.

GENERAL

The manual is intended for use in the identification, requisition and issuance of parts for the Hurco Autobend 5C. Parts listed in this manual meet specific critical equipment design specification requirements. The use of any non-recommended substitute replacement parts may be the source of added trouble. Do not assume that if parts look alike, they are the same. The majority of parts have special properties known only by the manufacturer. They are the result of particular requirements established by extensive research and testing. There is a continuing program to further improve existing parts. Many of these improvements cannot be detected by visual examination (comparing 'old' to 'new' items). For these stated reasons, it is extremely important that only recommended replacement parts be used.

The "Wiring Digrams in this manual are intended as an aid to isolate a malfunction when it becomes necessary to 'troubleshoot' the machine to find the source of an encountered problem.

NOTICE

Hurco products should be used only for the purpose and in the manner intended by their original design. It is recommended that no modifications be made to this product. Any modification of this product will void any expressed or implied warranty.

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HOW TO ORDER REPLACEMENT PARTS

Hurco maintains a large inventory of service spare parts. Our Parts Order Processing personnel are thoroughly trained to handle all requests for replacement parts and can also answer your questions concerning the status of an existing order and shipping information (etc.).

Orders for parts may be placed by telephone (1-800-638-1849), telex (687-6024), fax (317-298-2617), and/or by sending a letter with purchase order to:

HURCO Manufacturing Company
Parts Order Processing
One Technology Way
P.O. Box 68180
Indianapolis, IN 46268-0180

Explicit information is required so that we may process your request for parts. This information is detailed below.

Please have the following required information available when telephoning your request for parts.

- 1. Hurco CNC mill/machining center serial number. The serial number location is on the general information and warning label attached to the power cabinet door (near the disconnect switch).
- 2. Your Company name and complete address, including the postal zip code.
- 3. Name and telephone number of the person ordering the parts (include area code and extension).
- 4. COMPLETE shipping address (include the name and department of the person to receive the part). Also provide any special shipping instructions, including the desired mode of shipment (i.e. Air Express, UPS Blue, Standard UPS, etc.). Parts will be shipped prepaid and billed via invoice.
- 5. Your company's purchase order number, even if machine is under warranty.
- 6. Complete address to which invoices are to be mailed.
- 7. Give the Hurco part number, part name (description), and quantity (number of parts). Also state the source of this information, such as manual and page number, part number found on 'old' part,(etc.).

Special Notes:

When returning a part to Hurco, please fill out the "Return Authorization Tag" sent to you and ship the part to Hurco in the original container when possible.

Customer should order repair parts first and get the machine running. Once repaired then the broken parts can be returned.

ALL DEFECTIVE PARTS REPLACED UNDER WARRANTY AGREEMENT MUST BE RETURNED TO HURCO WITHIN THIRTY (30) DAYS.

PARTS LIST

This parts list is for use as an aid in the identification, requisition and issuance of parts for the Hurco Autobend 5C. Use only the part numbers specified within this manual for replacement parts. To locate a part number: 1) Identify the assembly that contains the component part from the "Contents" list below; 2) Refer to the page that illustrates the assembly breakdown; 3) Locate the component part and its item number on the illustration then refer to the item number within the part listing to determine its description and the Hurco part number.

CONTENTS

DESCRIPTION	DRAWING NO.	PAGE
CONSOLE		
Console Assembly	001-1402-023	1 & 2
Front Panel	403-3001-024	3
CRT	425-0001-016	4
Main Board	415-0124-905	5 - 10
Switch Connect PCB	415-0128-003 & 004	11
Harness, RS-232	423-6084-004	12
Harness, 10 pin ribbon	423-0116-001 & 003	13
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