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**PARTS LISTINGS & WIRING DIAGRAMS**  
**for the HURCO**  
**Autobend 6 Control System**

704-0001-791  
September 1999  
Autobend 6  
Parts List & Wiring Diagram  
Revision A

**SAFETY PRECAUTIONS**

Service Personnel: Always be alert and practice all necessary safety rules and precautions when servicing this equipment. As part of this, 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 control cabinets.
- Whenever working in an area away from the disconnect switch, **post a warning** on or near the switch telling 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 control cabinet and avoid flexing the printed circuit boards (PCBs, also called printed wiring boards or PWBs) when handling, removing, or inserting them. Hairline cracks in the printed circuit etching may result from rough handling. These cracks cause problems that are often intermittent and very hard to find.

Avoid touching the components (devices) installed on a printed circuit board; static electricity may damage them.

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**GENERAL**

This manual is divided into five (5) sections. These sections are separated by a colored divider pages.

All five (5) sections contain “Parts Listings” for use in the identification, requisition, and issuance of electro-mechanical parts for the Autobend 6 Control System. Parts listed in these sections 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 just because 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 and new parts). For these reasons, it is extremely important that only recommended replacement parts be used.

All five (5) sections also contain electro-mechanical assemblies and wiring diagrams that are intended as an aid in isolating 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 modifications of this product will void any expressed or implied warranty.



## 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 (voice line 1-800-638-1849, fax line 1-317-328-2812) or by mail with a purchase order to:

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

We need the following explicit information in order to process your parts order. Please have this information at hand if making a phone order.

1. Hurco Autobend Control serial number. This number is located 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 (e.g., 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 the 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. Also state where you got this number (maintenance manual, parts list manual, off the old part).

### SPECIAL NOTES ON RETURNING PARTS

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

All defective parts replaced under warranty agreement **must be returned** to Hurco within thirty (30) days.

## PARTS LIST and WIRING DIAGRAMS

This parts list is for use as an aid in the identification, requisition and issuance of part for the Hurco Autobend Controls. 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.

### List of Drawings

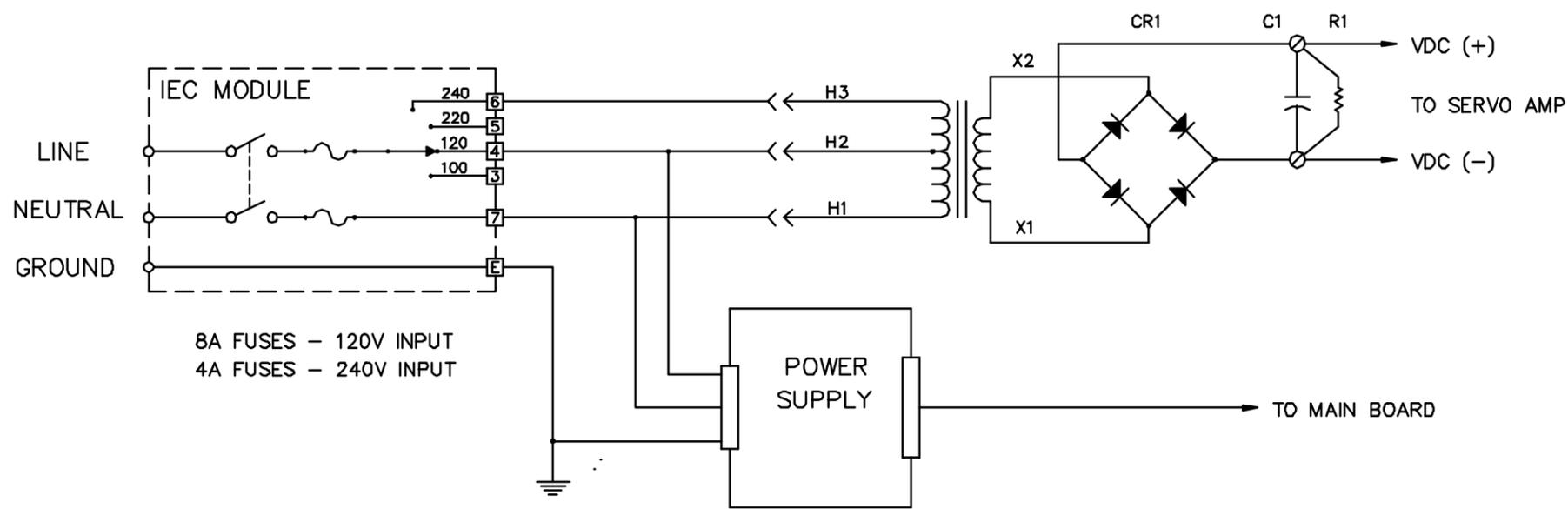
Description	Drawing Number	# of Pages
<b>Power Cabinet</b>		
Ass'y., AB6 Small Power Cabinet	001-2102-001/003	5
Ass'y., AB6 Large Power Cabinet	001-2102-002	3
Ass'y., AB6 Small Power Cabinet X1/Y1	001-2102-004	1
Ass'y., AB6 Large Power Cabinet X1/X2/Y1	001-2102-005	1
Ass'y., Servo Amplifier	402-5001-053/063	1
Transformer, 43 VAC	413-0003-137	1
Harness, AB6 Console Interface	423-0200-003/005	1
Harness, AB7 Servo Amp IF	423-0201-001	1
Harness, Servo Amp Power IF	423-0201-002	1
Harness, AB6 Main Bd. IF	423-0201-028	1
Harness, AB6 AC Input	423-0202-013	1
Harness, AB6 PS to Main Bd.	423-0202-014	1
Harness, AB6 User I/O	423-0202-015/017	1
Harness, AB6 HV Supply	423-0202-016	1
Harness, AB7 Relay I/O	423-0203-001	1
Harness, RS-232	423-0205-001	1
<b>Console</b>		
Ass'y., AB6 Console	001-2103-001	1
Ass'y., AB6 Front Panel	001-2104-001	1
Panel, AB6 Membrane Switch	405-3001-027	2

<u>Description</u>	<u>Drawing Number</u>	<u># of Pages</u>
<b>Backgauge</b>		
Ass'y., Backgauge, S6/S8	001-2003-009	2
Ass'y., Backgauge, S7	001-2003-002	2
Ass'y., Backgauge, LP11-54	001-2010-004	2
Ass'y., Backgauge, LP11	001-2010-005	2
Ass'y., Backgauge, LP11-12	001-2010-006	2
Ass'y., Backgauge, LP21	001-2010-007	1
Ass'y., Backgauge, LP21 Rear Cover Kit	001-2010-008 thru 012	1
Harness, X Axis IF	423-0201-005/006/007/029	1
Harness, X Axis Interface 300"/420"/600"	423-0201-021/024/025/030	1
Harness, AB7 Internal GaugeS6/S7/S8	423-0204-001	1
<b>Y-Axis</b>		
Ass'y., MTE EC728 w/R9000 Enc.	001-1409-003	1
Ass'y., MTE	001-1909-007	1
Ass'y., Scale - Standard 14"	001-2004-001	1
Ass'y., Scale - Standard 20"	001-2004-002	1
Ass'y., Scale - Standard 30"	001-2004-003	1
Ass'y., Scale - Standard 14" Cin. Bed Ref. Opt.	001-2004-004	1
Ass'y., Promecam 400 Drive	001-2006-001	1
Ass'y., Promecam Drive	001-2006-002	1
Ass'y., Amada Drive	001-2006-003	1
Ass'y., Adira-QHA	001-2006-004	2
Ass'y., Adira Drive (Pre-QHA)	001-2006-005	1
Ass'y., Komatsu PHS	001-2006-006	1
Ass'y., Guifil-PE	001-2006-008/009	1
Ass'y., Hurco Press Brake Y-Axis	001-2006-011	2

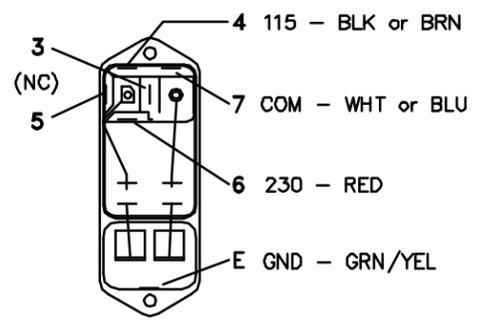
<u>Description</u>	<u>Drawing Number</u>	<u># of Pages</u>
<b>Y-Axis (continued)</b>		
Harness, AB7 Y Axis IF	423-0201-011/012	1
Harness, AB7 MStop I/F	423-0201-013/014	1
Harness, Y Axis Adapter	423-0201-027	1
<b>Miscellaneous</b>		
LP Vertical Supports	001-1034-003/004	1
Stock Support	001-1146-001	1
Ass'y., Pivot Finger Adjustable	001-1425-004	1
Ass'y., Vertical Support	001-1452-001 thru 004	1
Ass'y., Gauge Block/Screw	001-1479-999	1
Ass'y., Vertical Support	001-1486-001 thru 006	1
Ass'y., Retract at Pinchpoint	001-1529-003	1
Gauge Bar, S6, S7, R-Axis	801-0910-001 thru 025	1
Gauge Bar, S8	801-0910-026 thru 039	1
Ass'y., Adjustable Leg	901-0022-004	1

# Power Cabinet

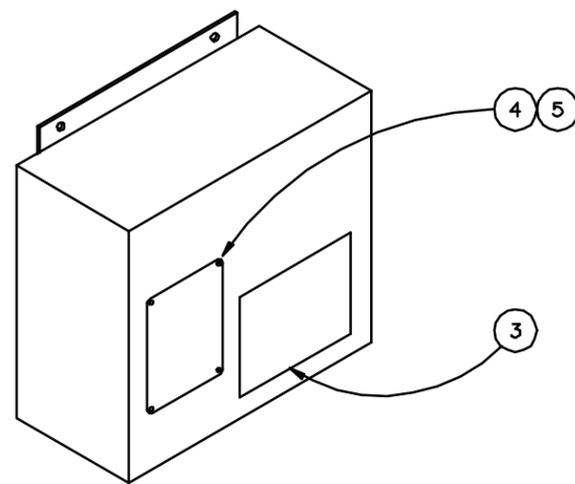
# Power Cabinet



8A FUSES - 120V INPUT  
 4A FUSES - 240V INPUT



REAR VIEW OF IEC MODULE



MARKING

QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	-	423-0201-030	HARNESS, AB6 X AXIS I/F 96"	53
1	-	423-0200-005	HARNESS, AB6 132" CONSOLE INTERFACE	52
REF	REF	423-0201-025	HARNESS, AB6 X AXIS I/F 600"	51
REF	REF	423-0201-024	HARNESS, AB6 X AXIS I/F 420"	50
-	1	423-0201-021	HARNESS, AB6 X AXIS I/F 300"	49
REF	REF	406-0803-704	KIT, FEMALE SCREWLOCK	48
REF	REF	423-0205-001	HARNESS, RS-232	47
2	2	101-5021-003	SHCS, M4 X 8 DIN912	46
2	2	101-5006-013	SHCS, M3 X 35	45
4	4	101-5008-003	SHCS, M6 X 12	44
1	1	101-5007-022	SHCS, M5 X 16	43
2	2	102-5001-003	FHSCS, M3 X 10	42
2	2	108-5002-001	BHCS, M4 X 8	41
1	1	108-5003-008	BHCS, M5 X 20	40
3	3	110-0046-006	WASHER, SPLIT M5	39
4	4	110-0066-011	LOCKWASHER, M6 EXT TOOTH	38
2	2	110-0066-006	LOCKWASHER, M4 EXT TOOTH	37
2	2	110-5001-001	WASHER, FLAT M3 DIN 125A	36
4	4	110-5001-003	WASHER, FLAT M5 DIN 125A	35
4	4	110-5001-004	WASHER, FLAT M6 DIN 125A	34
2	2	117-5012-001	HEX NUT, M5	33
1	1	402-5001-063	ASSEMBLY, SERVO AMPLIFIER	32
2	2	408-8001-009	HOLE PLUG, 0.187" DIA	31
1	1	406-0921-011	PLUG, IEC 320 STRAIGHT	30
2	2	406-5001-003	TIE WRAP, SMALL	29
1	1	407-0002-077	CAPACITOR, 12000uF/100V	28
1	1	408-7501-049	CLAMP, IEC PLUG RETAINING	27
1	1	408-7506-008	CLAMP, 2" DIA CAPACITOR	26
2	2	408-8001-044	WASHER, SCREW COVER	25
2	2	408-8001-045	COVER, SCREW	24
4	4	409-1001-234	FUSE, 5 X 20mm 4A TIME DELAY	23
4	4	409-1001-235	FUSE, 5 X 20mm 8A TIME DELAY	22
1	1	409-2001-049	FUSE DRAWER, 2 POLE	21
1	1	409-2002-002	MODULE, POWER ENTRY IEC	20
1	1	413-0003-137	TRANSFORMER, 43 VAC	19
1	1	413-0008-018	DC SUPPLY, 65W SWITCHING	18
REF	REF	415-0260-901	PCB ASSY, MOTION MODULE	17
1	1	415-0264-001	PCB ASSY, AB6 MAIN BOARD	16
1	1	417-0001-027	DIODE, BRIDGE 35A/200V	15
-	1	423-0200-003	HARNESS, AB6 360" CONSOLE IF	14
1	1	423-0201-001	HARNESS, AB7 SERVO AMP INTERFACE	13
REF	REF	406-0961-026	COVER, POWER ENTRY MODULE	12
1	1	423-0202-013	HARNESS, AB6 AC INPUT	11
1	1	423-0202-014	HARNESS, AB6 PS TO MAIN BOARD	10
REF	REF	407-0032-003	RESISTOR, 3300 OHM 10% 10W WIREWOUND	9
1	1	423-0202-016	HARNESS, AB6 HV SUPPLY	8
REF	REF	423-0202-017	HARNESS, AB6 USER I/O MULTI-AXIS	7
1	1	423-0202-015	HARNESS, AB6 USER I/O	6
REF	REF	111-0241-001	RIVET, AD-32-ABS SCOVILL	5
REF	REF	703-1001-129	LABEL, ABIV INFO/WARNING	4
1	1	703-1005-329	LABEL, WARNING HAZ. VOLTAGE	3
1	1	801-2001-005	ENCLOSURE, AB6 SMALL POWER	2
1	1	801-2002-003	BRACKET, AB7 SERVO AMP	1

REV	DATE	BY	DATE	BY	DATE	BY
F	13903					
E	13762					
D						
C						
B						
A						

**HURCO MANUFACTURING COMPANY, INC**  
 INDIANAPOLIS, IN U.S.A.

DESCRIPTION: ASSY, AB6 SMALL POWER CABINET

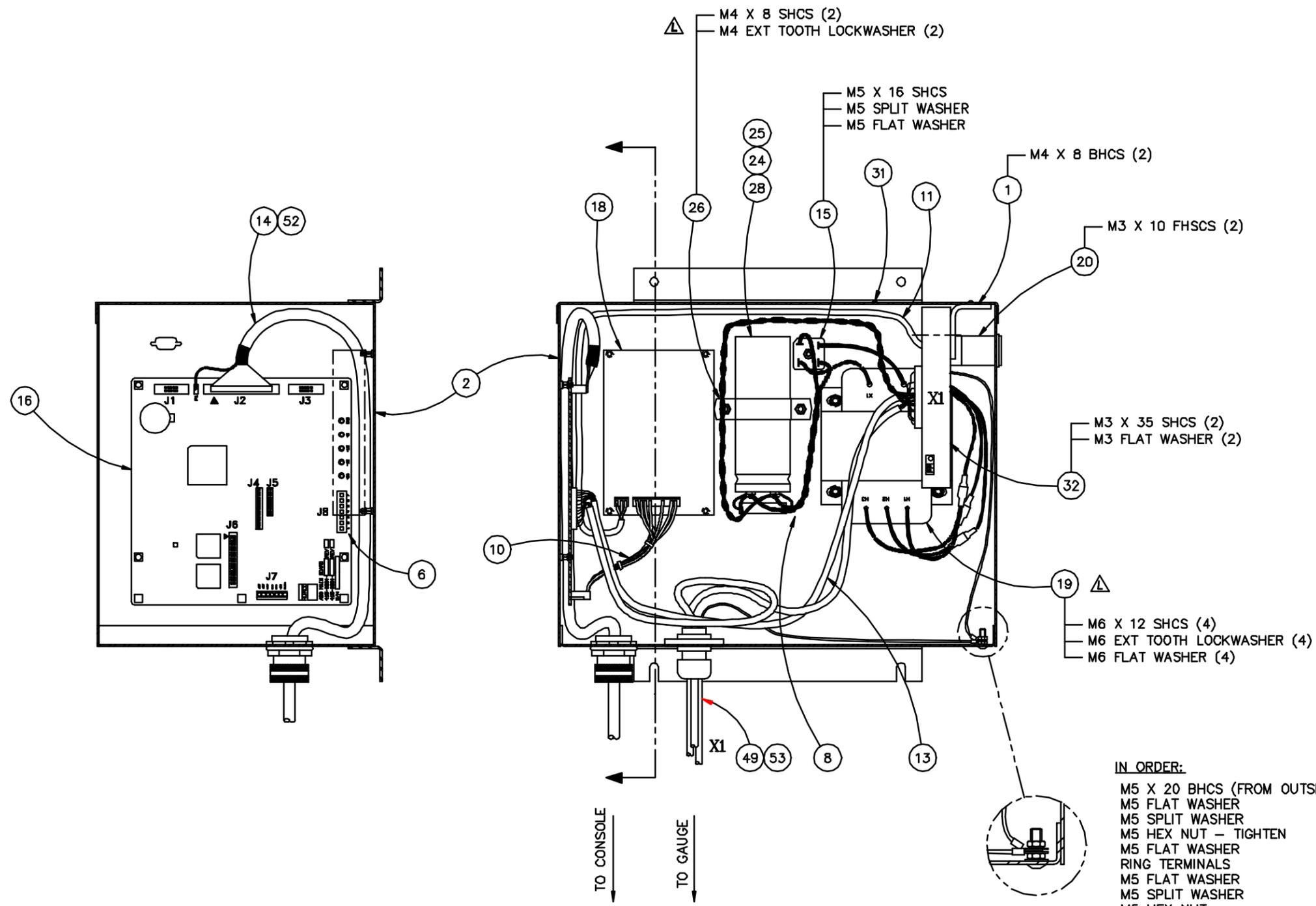
SCALE: 1:1  
 UNIT OF MEAS: EA

DATE: 18.JUL.98  
 CHECKED: SCA  
 DATE: 18.JUL.98  
 APPROVED: JLW

DATE: 1-9-97

SHIT: 1 OF 4

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- IN ORDER:**  
 M5 X 20 BHCS (FROM OUTSIDE)  
 M5 FLAT WASHER  
 M5 SPLIT WASHER  
 M5 HEX NUT - TIGHTEN  
 M5 FLAT WASHER  
 RING TERMINALS  
 M5 FLAT WASHER  
 M5 SPLIT WASHER  
 M5 HEX NUT

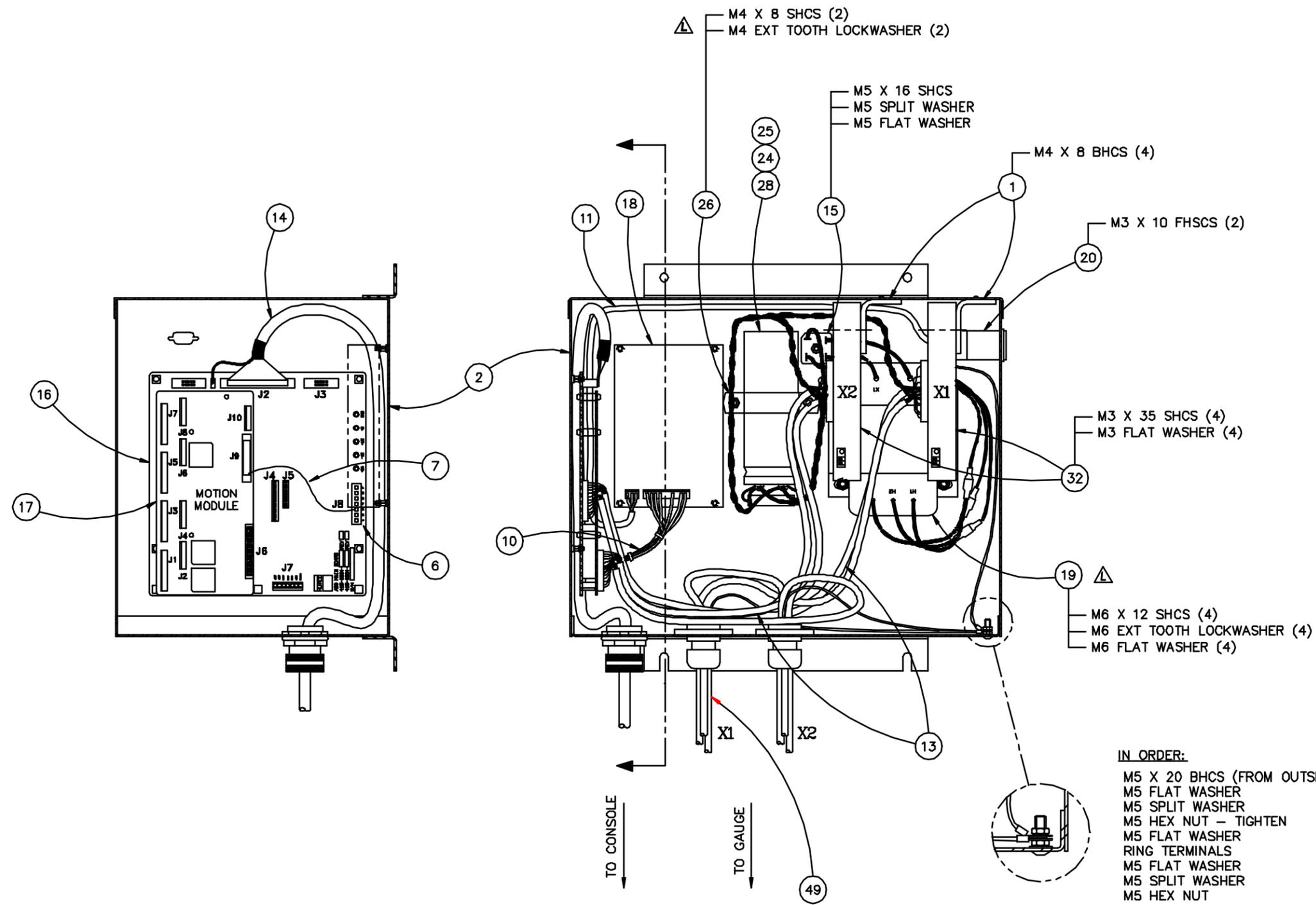
△ = APPLY LOCTITE SEALANT

SINGLE-AXIS CONTROL

AB 921-2

SURFACE TREATMENT ~		EXCEPT AS NOTED ALL DIMENSIONS MUST BE AS FOLLOWS INSIDE: .005" X 45° OR .05" R MAX OUTSIDE: .030" X 45° OR .05" R		EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .01 ± 0.000 .00 ± 0.010 .000 ± 0.005 0.000 ± 0.008 ANGULAR ± 0°30'		HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT ~		EXCEPT AS NOTED: WELDING TOLERANCE MUST BE AS FOLLOWS ±.12		THIRD ANGLE PROJECTION		DESCRIPTION ASSY, AB6 SMALL POWER CABINET	
FIRST USED ON AUTOBEND 6		SCALE 1:2		SIZE D		DRAWN DATE 08.JUL.96 CHECKED SCA DATE 18.JUL.96 APPROVED J.L.W. DATE 7-22-96	
		UNIT OF MEAS EA		DRAWING 001-2102-001-003		SHY. 2 OF 4 REV.	

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- IN ORDER:**  
 M5 X 20 BHCS (FROM OUTSIDE)  
 M5 FLAT WASHER  
 M5 SPLIT WASHER  
 M5 HEX NUT - TIGHTEN  
 M5 FLAT WASHER  
 RING TERMINALS  
 M5 FLAT WASHER  
 M5 SPLIT WASHER  
 M5 HEX NUT

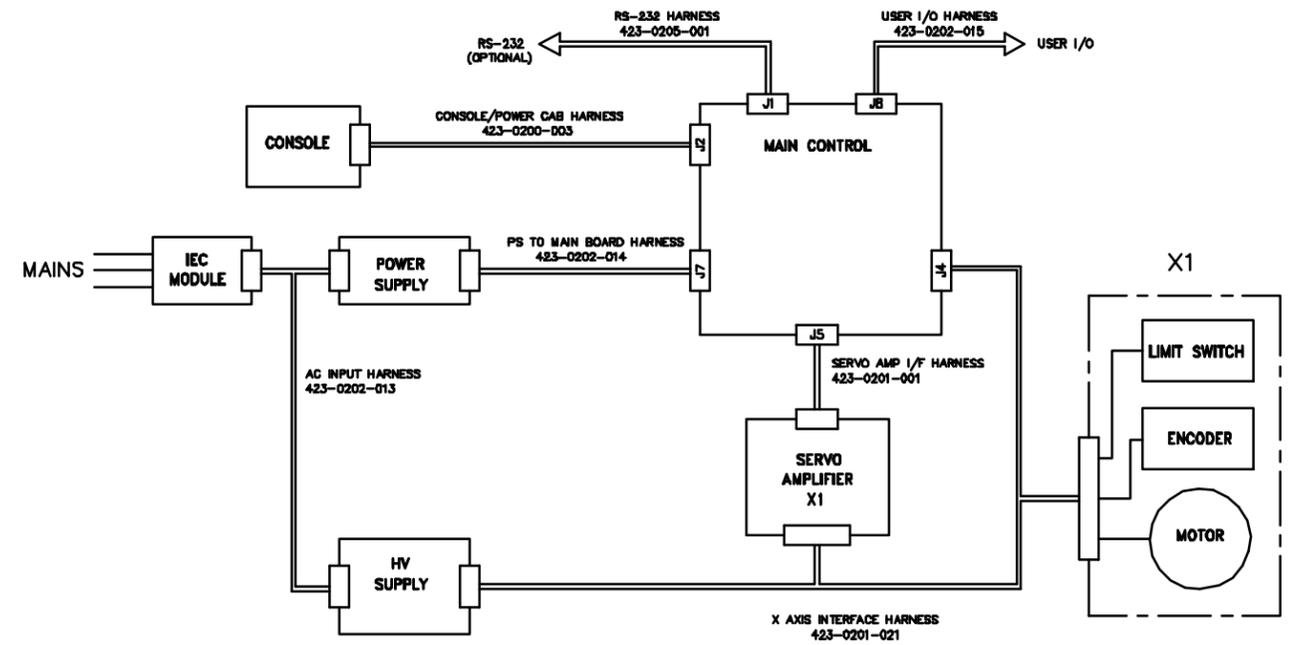
△ = APPLY LOCTITE SEALANT

TWO-AXIS CONTROL

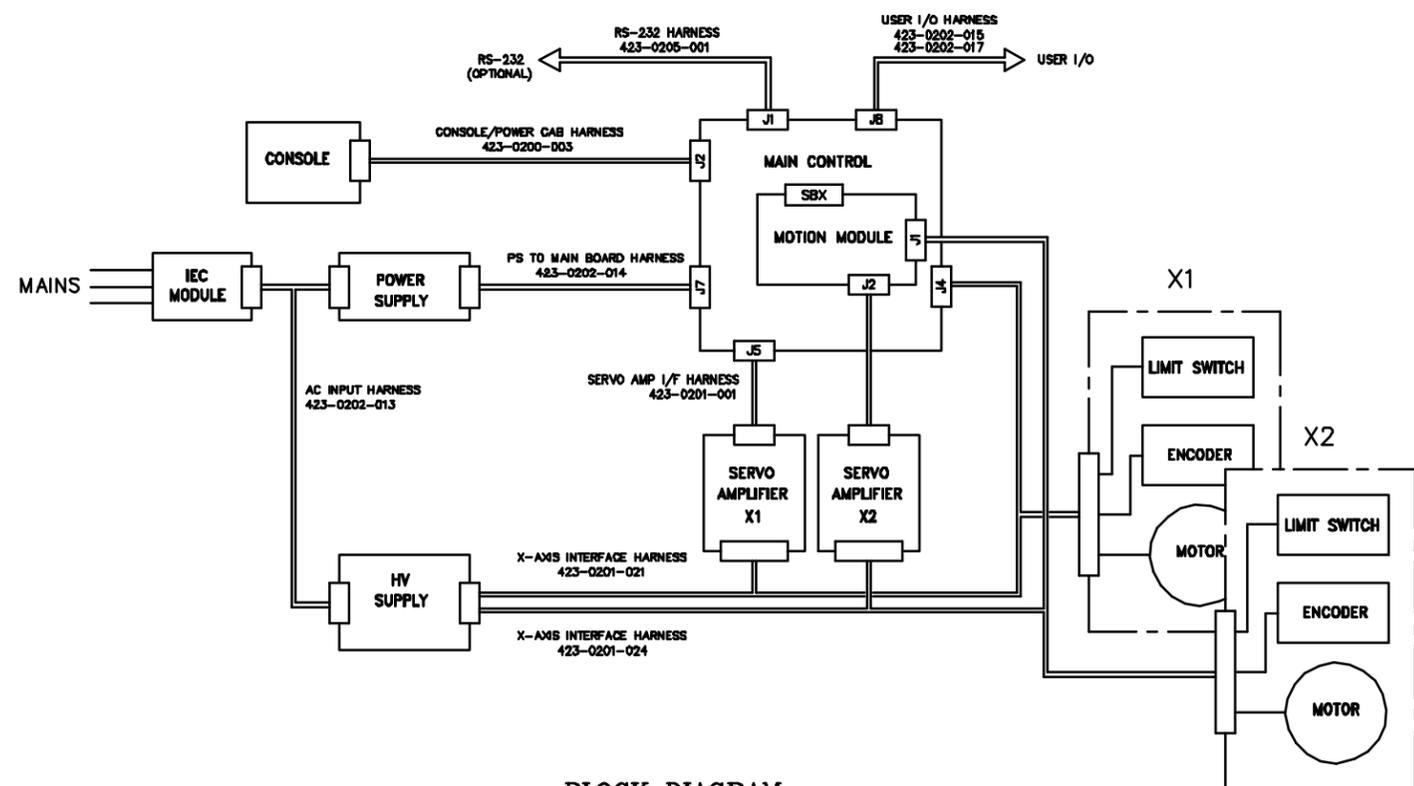
AB 921-3

SURFACE TREATMENT ~		EXCEPT AS NOTED ALL CORNERS MUST BE AS FOLLOWS INSIDE: .050" X 45° OR .050" R MAX OUTSIDE: .030" X 45° OR .050" R		EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .1 ± .0300 .00 ± .0190 .000 ± .0050 .0000 ± .0025 ANGULAR ± 0°30'		HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT ~		EXCEPT AS NOTED WELDING TOLERANCE MUST BE AS FOLLOWS ±.12		THIRD ANGLE PROJECTION 		DESCRIPTION ASSY, AB6 SMALL POWER CABINET	
FIRST USED ON AUTOBEND 6		SCALE 1:2		SIZE D		DRAWING 001-2102-001-003	
				DATE 08.JUL.96		CHECKED SCA	
				DATE 18.JUL.96		APPROVED J.L.W.	
				DATE 7-22-96		REV. 3 OF 4	

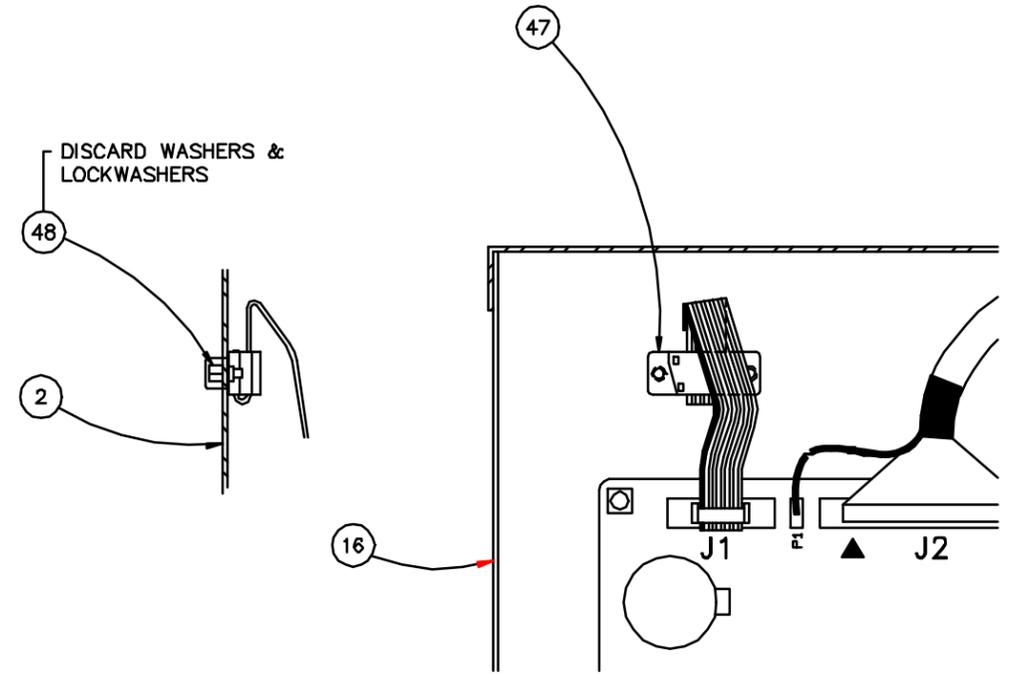
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**BLOCK DIAGRAM**  
SINGLE-AXIS CONTROLLER

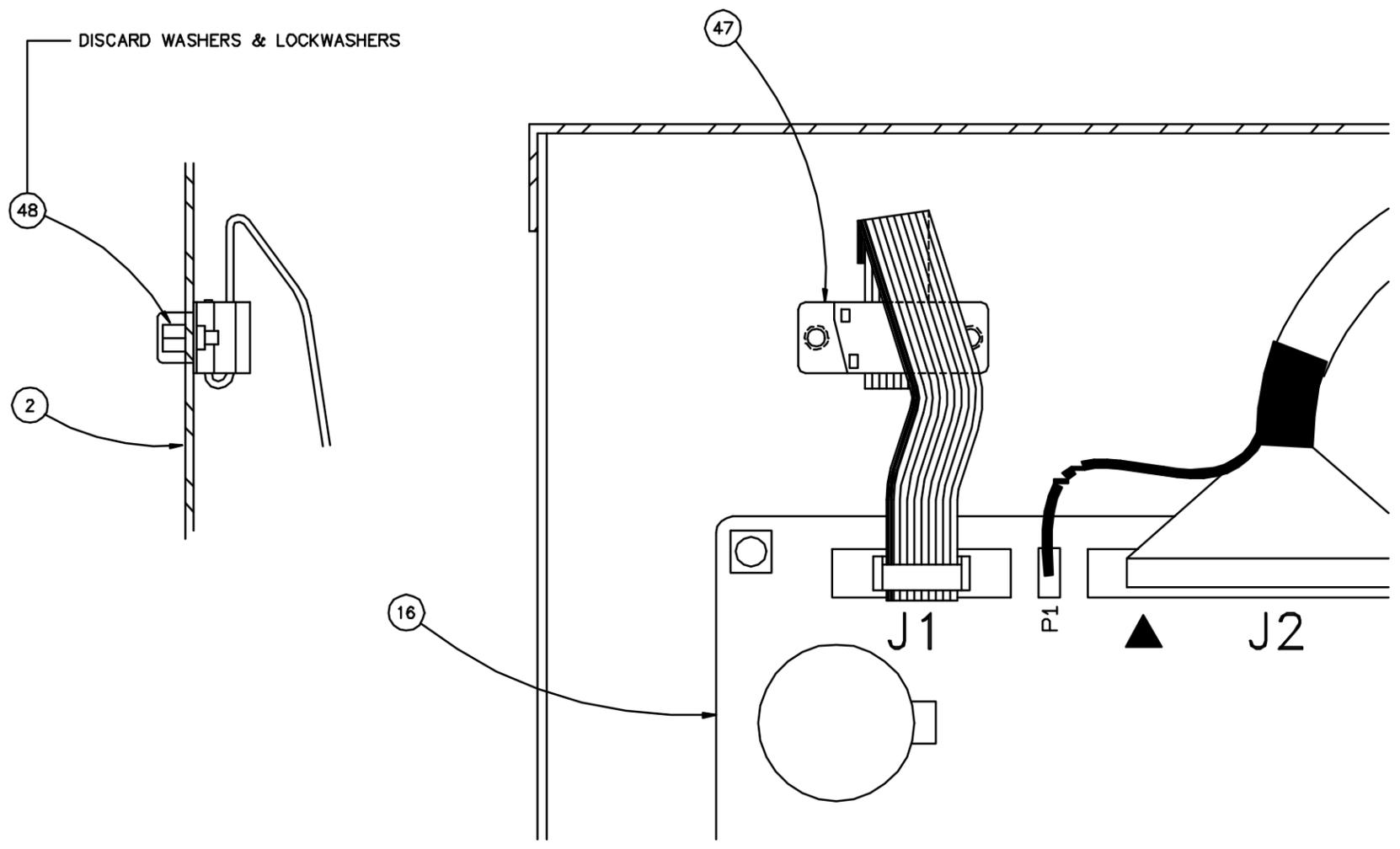


**BLOCK DIAGRAM**  
TWO-AXIS CONTROLLER



RS-232 OPTION

SURFACE TREATMENT ~	EXCEPT AS NOTED ALL CORNERS MUST BE AS FOLLOWS INSIDE: .050" X 45° OR .050" R MAX OUTSIDE: .030" X 45° OR .050" R	EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .01 ± .000 .00 ± .0100 .000 ± .0050 0.000 ± .0008 ANGULAR ± 0°30'	HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.						
HEAT TREATMENT ~			DESCRIPTION ASSY, AB6 SMALL POWER CABINET						
FIRST USED ON AUTOBEND 6	EXCEPT AS NOTED WELDING TOLERANCE MUST BE AS FOLLOWS ±.12	THIRD ANGLE PROJECTION	<table border="1"> <tr> <td>DRAWN SEP</td> <td>DATE 06.JUL.96</td> <td>CHECKED SCA</td> <td>DATE 16.JUL.96</td> <td>APPROVED JLW</td> <td>DATE 7-22-96</td> </tr> </table>	DRAWN SEP	DATE 06.JUL.96	CHECKED SCA	DATE 16.JUL.96	APPROVED JLW	DATE 7-22-96
DRAWN SEP	DATE 06.JUL.96	CHECKED SCA	DATE 16.JUL.96	APPROVED JLW	DATE 7-22-96				
		SCALE 1:2 UNIT OF MEAS EA	<table border="1"> <tr> <td>SIZE D</td> <td>DRAWING 001-2102-001-003</td> <td>SHY. 4 OF 4</td> <td>REV.</td> </tr> </table>	SIZE D	DRAWING 001-2102-001-003	SHY. 4 OF 4	REV.		
SIZE D	DRAWING 001-2102-001-003	SHY. 4 OF 4	REV.						

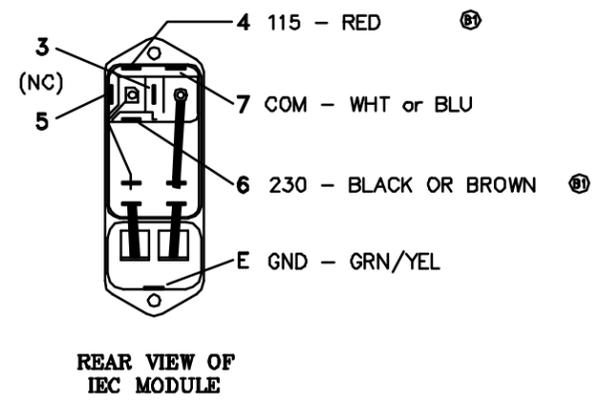
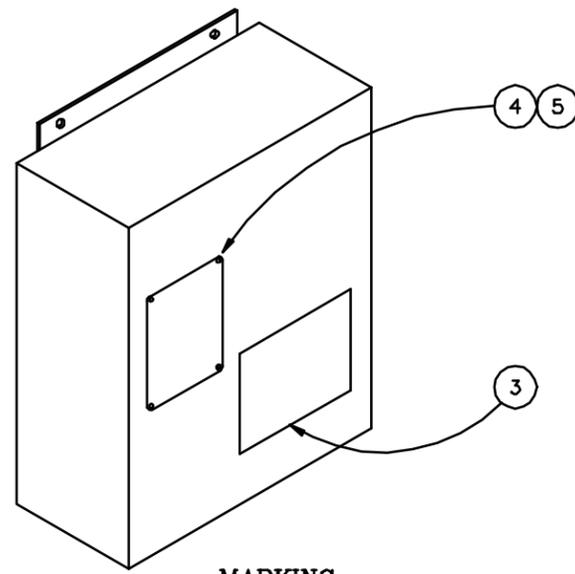
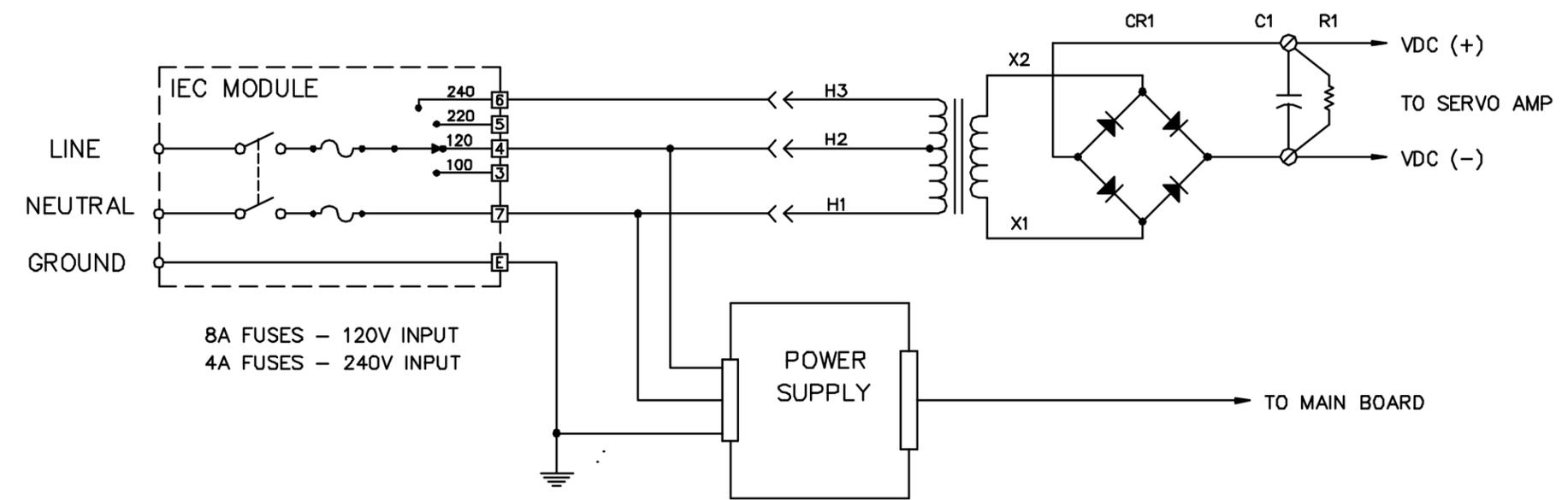


RS-232 OPTION

AB 921-5

SURFACE TREATMENT		EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE		HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.	
~ EXCEPT AS NOTED ALL CORNERS MUST BE AS FOLLOWS		DECIMAL .01 ± 0.000 .00 ± 0.010 .000 ± 0.005 .000 ± 0.008 ANGULAR ± 0°30'		DESCRIPTION	
~ INSIDE: .050" X 45° OR .05° R MAX OUTSIDE: .030" X 45° OR .05° R		THIRD ANGLE PROJECTION		ASSY, AB6 SMALL POWER CABINET	
FIRST USED ON AUTOBEND 6		EXCEPT AS NOTED: WELDING TOLERANCE MUST BE AS FOLLOWS ±.12		SCALE 2:1 UNIT OF MEAS EA	
		DRAWN SEP DATE 08.JUL.86		CHECKED DATE APPROVED DATE	
		SIZE D DRAWING 001-2102-001		SHY. 5 OF 5 REV.	

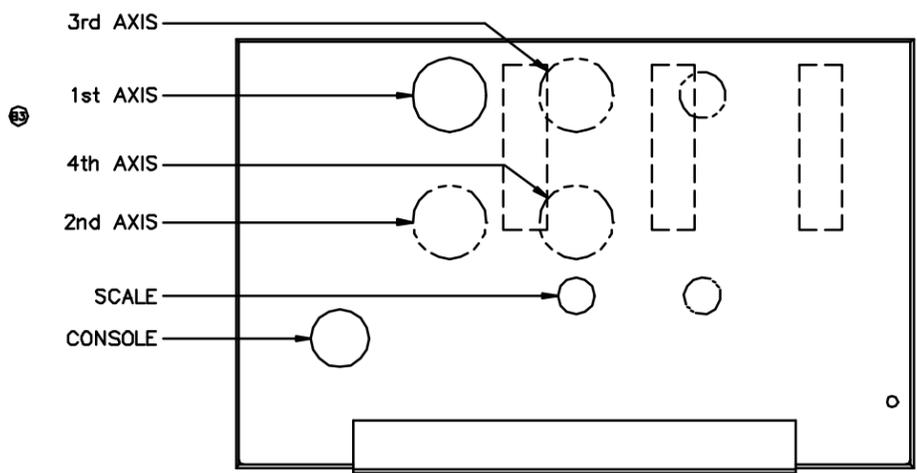
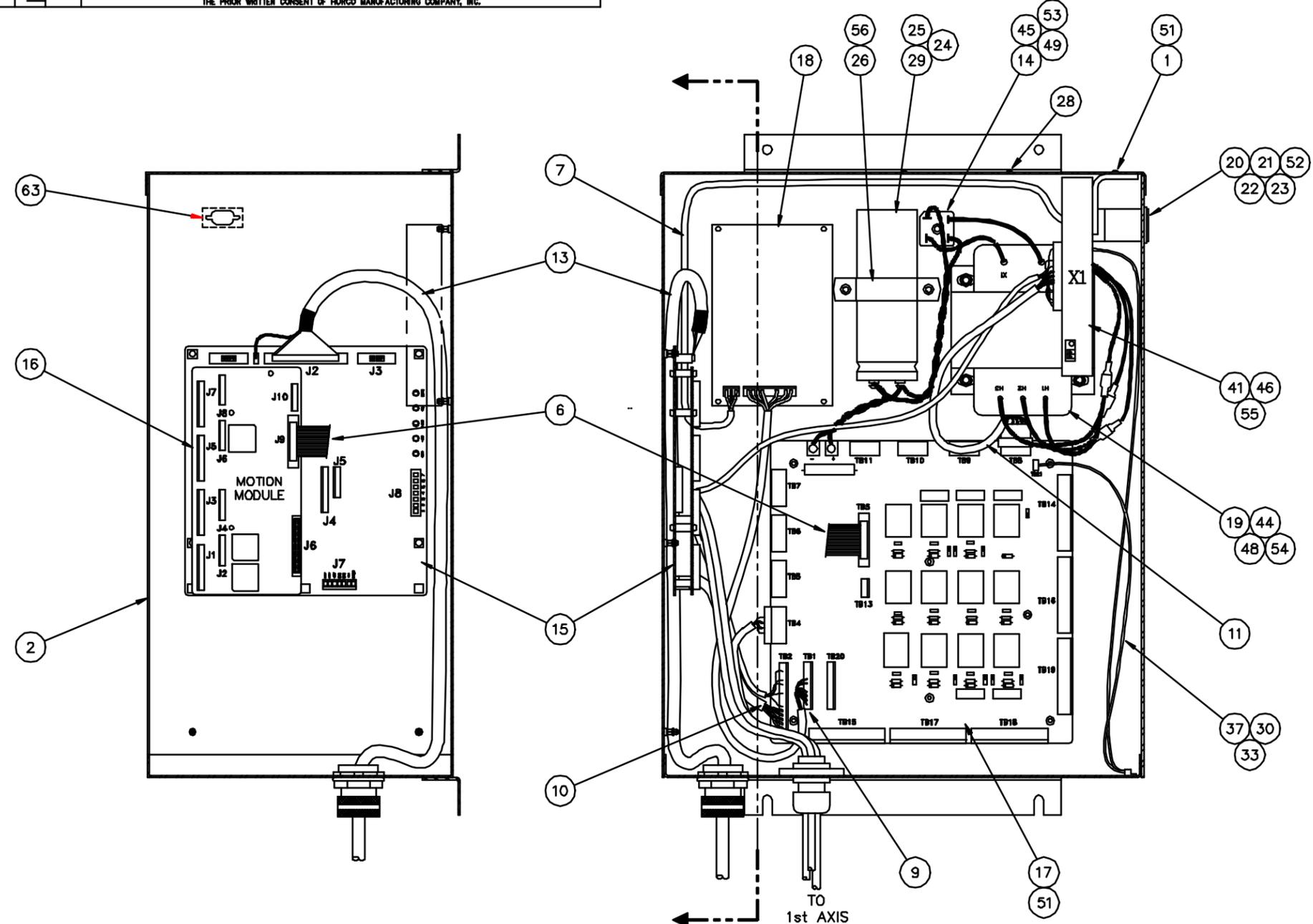
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1	406-0961-027	COVER, DB9 CONNECTOR	63
REF	423-0201-007	HARNESS, AB7 X AXIS I/F 600°	62
REF	423-0201-006	HARNESS, AB7 X AXIS I/F 420°	61
1	423-0201-005	HARNESS, AB7 X AXIS I/F 300°	60
REF	406-7505-012	FLAT CABLE MOUNT, ADHESIVE BACKED	59
REF	406-0803-704	KIT, FEMALE SCREWLOCK	58
REF	423-0205-001	HARNESS, RS-232	57
2	101-5021-003	SHCS, M4 X 8 DIN912	56
2	101-5006-013	SHCS, M3 X 35	55
4	101-5008-003	SHCS, M6 X 12	54
1	101-5007-022	SHCS, M5 X 16	53
2	102-5001-003	FHSCS, M3 X 10	52
9	108-5002-002	BHCS, M4 X 10	51
1	108-5004-006	BHCS, M6 X 20	50
1	110-0046-006	WASHER, SPLIT M5	49
4	110-0066-011	LOCKWASHER, M6 EXT TOOTH	48
2	110-0066-006	LOCKWASHER, M4 EXT TOOTH	47
2	110-5001-001	WASHER, FLAT M3 DIN 125A	46
1	110-5001-003	WASHER, FLAT M5 DIN 125A	45
4	110-5001-004	WASHER, FLAT M6 DIN 125A	44
1	117-5013-001	HEX NUT, M6	43
REF	402-5001-053	ASSEMBLY, 15A SERVO AMPLIFIER	42
1	402-5001-063	ASSEMBLY, 6A SERVO AMPLIFIER	41
1	406-0804-015	SCREW LUG, 1/4" DIA X 14-4 AWG	40
1	406-0921-011	PLUG, IEC 320 STRAIGHT	39
16"	406-2003-020	WIRE, 14 AWG BLU/WHT TWISTED	38
12"	406-2005-030	WIRE, 18 AWG STRANDED GRN/YEL INS	37
6	406-4005-067	CONNECTOR, 12 POS FEMALE w/ LATCHES	36
2	406-5001-003	TIE WRAP, SMALL	35
2	406-5001-012	TIE WRAP MOUNT	34
1	406-0965-004	FERRULE, 18 AWG RED	33
4	406-7001-031	RING TONGUE, #10 X 14-16 AWG BLUE	32
2	406-7001-068	QUICK CONNECT, 1/4" X 14-16 AWG FEMALE	31
1	406-7001-079	QUICK CONNECT, .187" X 22-18 AWG FEMALE	30
1	407-0002-077	CAPACITOR, 12000uF/100V	29
6	408-8001-009	HOLE PLUG, 0.187" DIA	28
1	408-7501-049	CLAMP, IEC PLUG RETAINING	27
1	408-7506-008	CLAMP, 2" DIA CAPACITOR	26
2	408-8001-044	WASHER, SCREW COVER	25
2	408-8001-045	COVER, SCREW	24
4	409-1001-234	FUSE, 5 X 20mm 4A TIME DELAY	23
4	409-1001-235	FUSE, 5 X 20mm 8A TIME DELAY	22
1	409-2001-049	FUSE DRAWER, 2 POLE	21
1	409-2002-002	MODULE, POWER ENTRY IEC	20
1	413-0003-137	TRANSFORMER, 43 VAC	19
1	413-0008-018	DC SUPPLY, 65W SWITCHING	18
1	415-0228-905	PCB ASSY, AB7 RELAY	17
1	415-0260-001	PCB ASSY, MOTION MODULE	16
1	415-0264-001	PCB ASSY, AB6 MAIN BOARD	15
1	417-0001-027	DIODE, BRIDGE 35A/200V	14
1	423-0200-003	HARNESS, AB8 CONSOLE INTERFACE	13
1	423-0201-001	HARNESS, AB7 SERVO AMP INTERFACE	12
1	423-0201-002	HARNESS, AB7 SERVO AMP POWER I/F	11
1	423-0201-028	HARNESS, AB6 MAIN BOARD I/F	10
1	423-0202-003	HARNESS, AB7 DC OUTPUT	9
REF	406-0961-026	COVER, POWER ENTRY MODULE	8
1	423-0202-011	HARNESS, AB7 AC INPUT	7
1	423-0203-001	HARNESS, AB7 RELAY I/O	6
REF	111-0241-001	RIVET, AD-32-ABS SCOVILL	5
REF	703-1001-129	LABEL, GEN'L INFO/WARNING	4
1	703-1005-329	LABEL, WARNING HAZ. VOLTAGE	3
1	801-2001-003	ENCLOSURE, AB6/AB7 LARGE POWER	2
1	801-2002-003	BRACKET, AB7 SERVO AMP	1

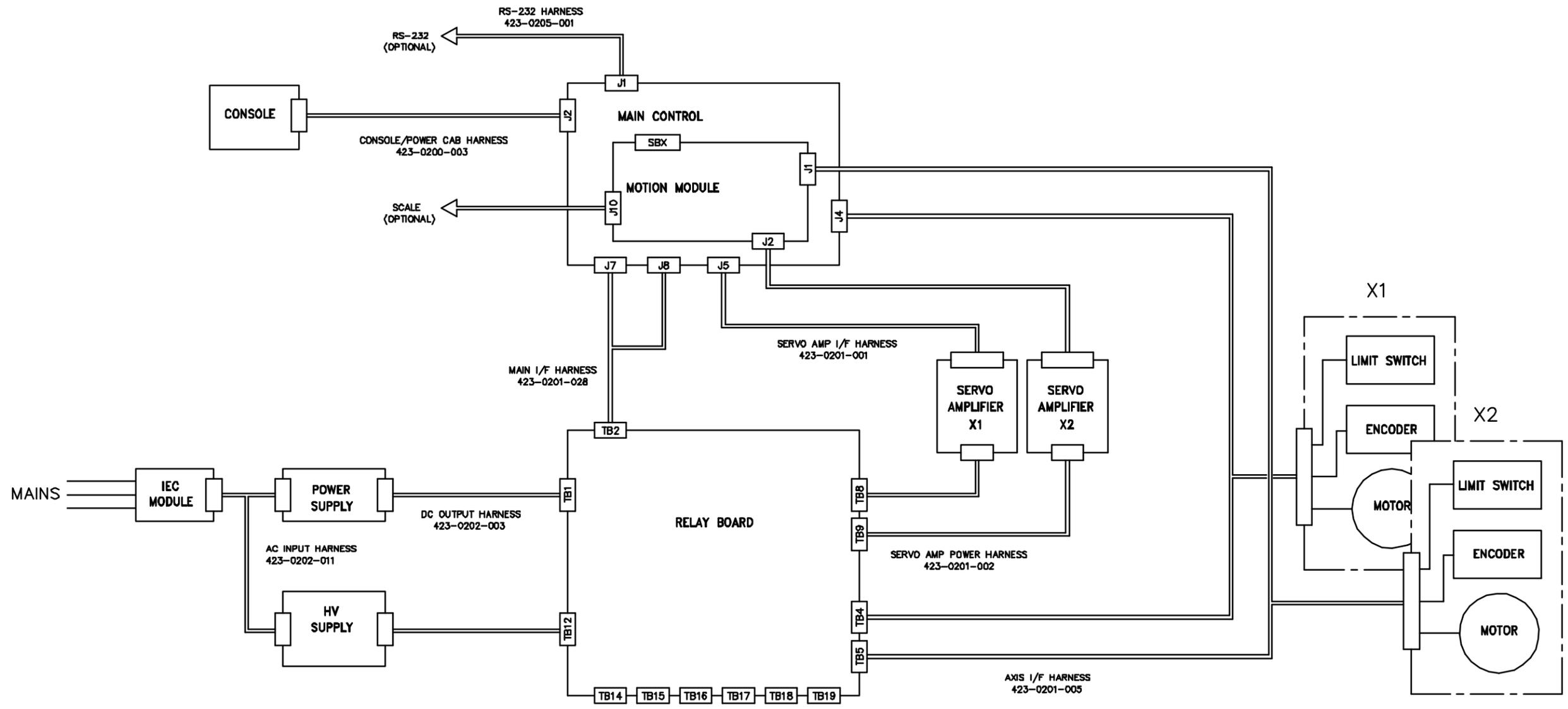
<table border="1"> <tr><td>14438</td><td>ITEM 16 WAS 415-0260-901</td><td>3/11/96</td><td>JLN</td><td>3/11/96</td></tr> <tr><td>13964</td><td>(3) SH. 2, RE-ARRANGED AXIS LOCATIONS; (4) UPDATED DELINEATION; (1) REVERSED WIRE COLOR FOR 118 &amp; 230; (2) ADDED ITEM #3</td><td>3/11/96</td><td>JLN</td><td>3/11/96</td></tr> <tr><td>13860</td><td>RELEASE</td><td></td><td></td><td></td></tr> </table>	14438	ITEM 16 WAS 415-0260-901	3/11/96	JLN	3/11/96	13964	(3) SH. 2, RE-ARRANGED AXIS LOCATIONS; (4) UPDATED DELINEATION; (1) REVERSED WIRE COLOR FOR 118 & 230; (2) ADDED ITEM #3	3/11/96	JLN	3/11/96	13860	RELEASE				SURFACE TREATMENT ~ HEAT TREATMENT ~ FIRST USED ON AutoBend 6	EXCEPT AS NOTED ALL DIMENSIONS MUST BE AS FOLLOWS INSIDE: .001" X .48" OR .001" R MAX OUTSIDE: .030" X .48" OR .001" R DECIMAL: ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0008 ANGULAR ±.030°	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A. DESCRIPTION ASSY, AB6 LARGE POWER CABINET DRAWN: SEP 28, JUL 96 CHECKED: SCA DATE: 03.AUG.96 APPROVED: J.L.W. DATE: 10-23-96 SCALE: 1:2 SIZE: D UNIT OF MEAS: EA	SHEET: 1 OF 3 REV. C
14438	ITEM 16 WAS 415-0260-901	3/11/96	JLN	3/11/96															
13964	(3) SH. 2, RE-ARRANGED AXIS LOCATIONS; (4) UPDATED DELINEATION; (1) REVERSED WIRE COLOR FOR 118 & 230; (2) ADDED ITEM #3	3/11/96	JLN	3/11/96															
13860	RELEASE																		

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.



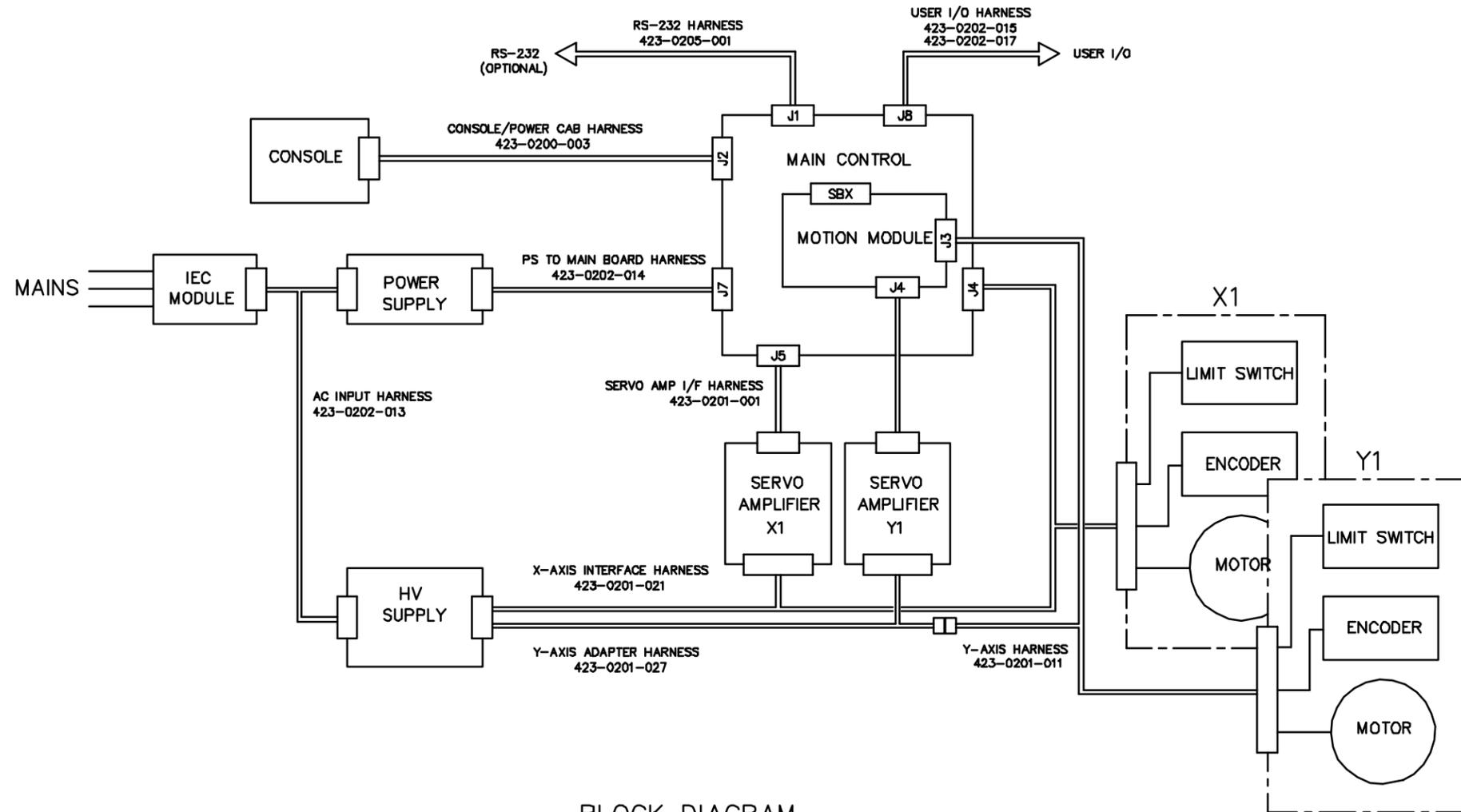
AB 983-2

SURFACE TREATMENT ~	EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 ±.0300 .00 ±.0150 .000 ±.0050 ANGULAR ± 0°30'	HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.			
HEAT TREATMENT ~		DESCRIPTION ASSY. AB6 LARGE POWER CABINET			
FIRST USED ON AutoBend 6	THIRD ANGLE PROJECTION 	SCALE 1:2	SIZE D	DRAWING 001-2102-002	REV. C
		DATE 28.JUL.96	CHECKED SCA	DATE 05.AUG.96	APPROVED JLW
					DATE 10-23-98



**BLOCK DIAGRAM**  
 MULTI-AXIS CONTROLLER

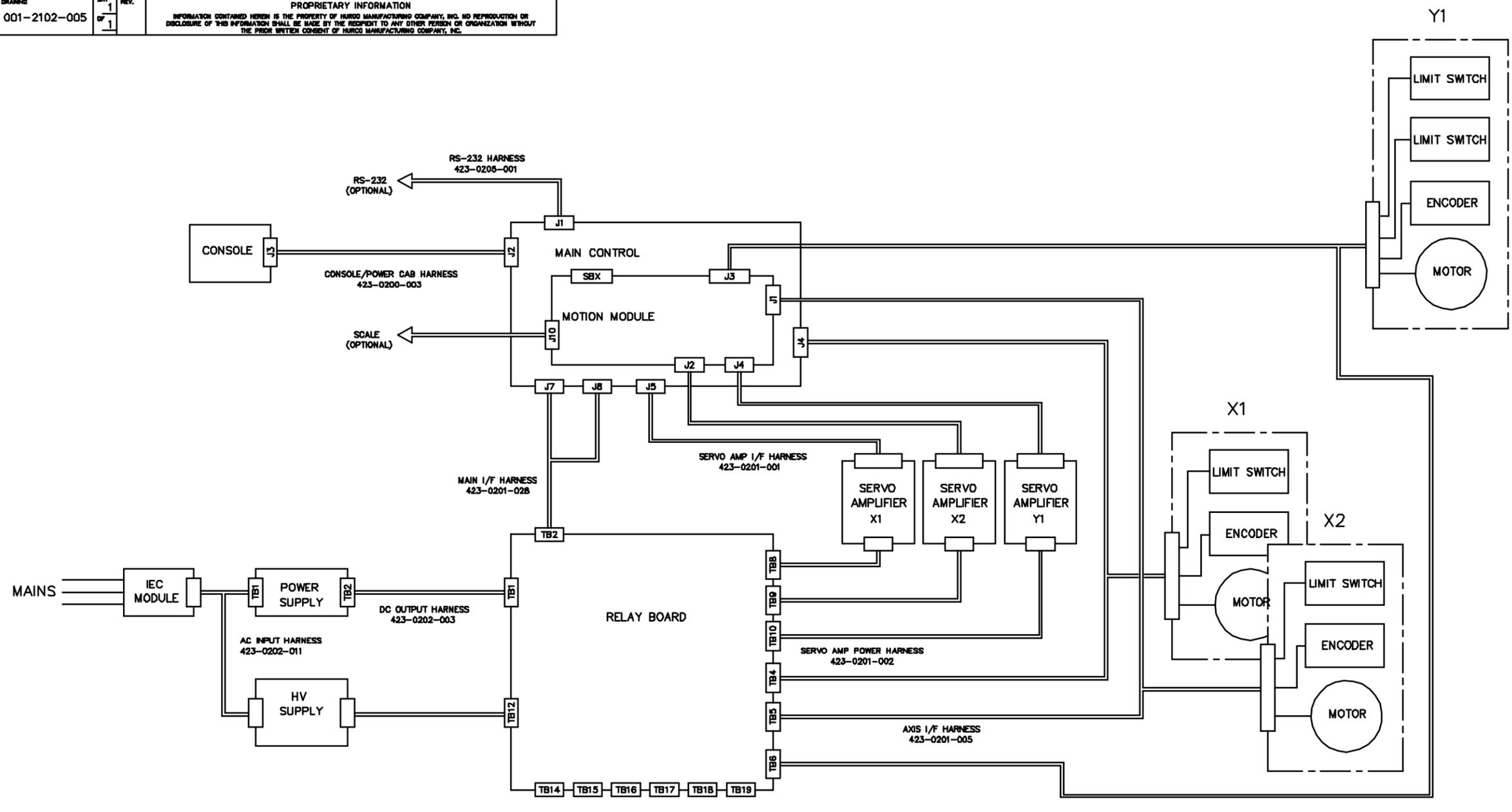
SURFACE TREATMENT ~		EXCEPT AS NOTED: ALL CORNERS MUST BE AS FOLLOWS INSIDE: .005" X 45° OR .005" R MAX OUTSIDE: .030" X 45° OR .005" R		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 ±.0300 .00 ±.0150 .000 ±.0050 0.000 ±.0025 ANGULAR ±.030°		HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.			
HEAT TREATMENT ~		THIRD ANGLE PROJECTION		SCALE NONE UNIT OF MEAS EA		DESCRIPTION ASSY. AB6 LARGE POWER CABINET DRAWN SEP DATE 28.JUL.96 CHECKED SCA DATE 05.AUG.96 APPROVED DATE			
FIRST USED ON AutoBend 6		EXCEPT AS NOTED: WELDING TOLERANCE MUST BE AS FOLLOWS ±.12		SIZE D		DRAWING 001-2102-002		SHL 3 OF 3 REV. C	



BLOCK DIAGRAM  
TWO-AXIS CONTROLLER

CN  
AB1017

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
<p align="center"><b>HURCO MANUFACTURING COMPANY, INC.</b> INDIANAPOLIS, IN U.S.A.</p>			
<p>EXCEPT AS NOTED: ALL DIMENSIONS MUST BE AS FOLLOWS:            INSIDE: .0005" X .45" DR            .05" R MAX            OUTSIDE: .030" X .45" DR            .05" R</p>			
<p>EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE:            DECIMAL: .0000 ±.0000            FRACTIONAL: .0000 ±.0000            ANGULAR: ± 0.000°</p>			
<p>DESCRIPTION: ASSY, AB6 SMALL POWER CABINET X1/Y1</p>			
DRWN: GLH	DATE: 3-14-97	CHKD: NJU	DATE: 3-14-97
APPR: [Signature]	DATE: [Blank]	APPR: [Signature]	DATE: [Blank]
SCALE: X	UNIT OF MEAS: EA	SIZE: D	DRWING: 001-2102-004
REV: A	REV: 1	REV: 1	REV: 1

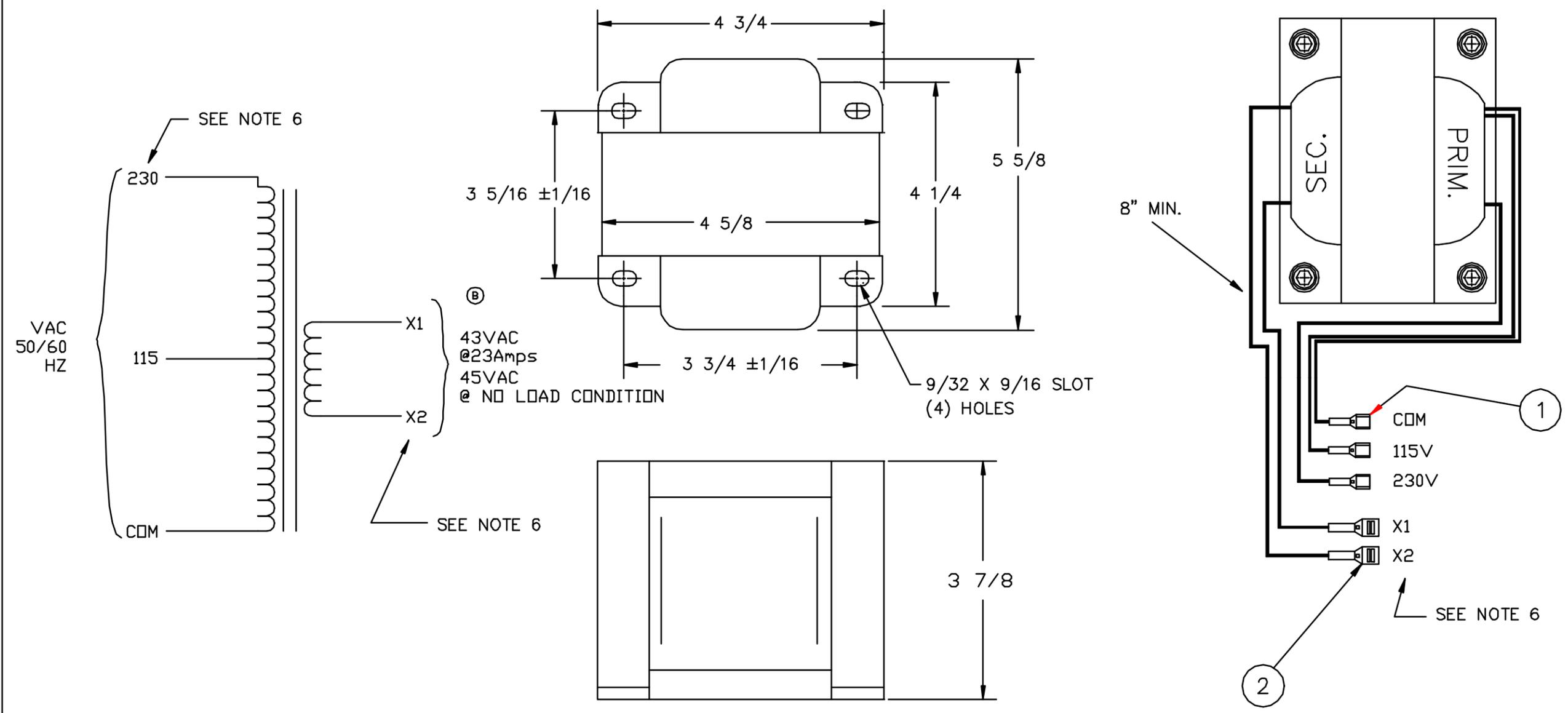


**BLOCK DIAGRAM**  
MULTI-AXIS CONTROLLER

CN  
AB1018

QTY	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
		<b>HURCO MANUFACTURING COMPANY, INC.</b> BIANAPOLIS, IN U.S.A.	
		<b>DESCRIPTION</b> ASS'Y, AB6 LARGE POWER CABINET X1/X2/Y1	
		DRAWN: GLH DATE: 3-14-97	CHECKED: MJU DATE: 3-14-97
		APPROVED: [Signature] DATE:	DATE:
		SCALE: NONE UNIT OF MEAS: EA	DOWNS: D 001-2102-005
		SURFACE TREATMENT: AB6 HEAT TREATMENT: [Symbol] FINISH: [Symbol]	SHEET: 1 OF: 1





- NOTES:
- 1) .300 KVA 1 PH, 50/60 HZ, TYPE IP, 115/230 VAC INPUT, 43VAC @ 23 AMP OUTPUT CONTINUOUS.
  - 2) PRIMARY LEADS #14GA UL1015 600V WIRE 8" OFF TOP OF LAMINATION. TERMINATE WITH 1/4 MALE TABS.
  - 3) SECONDARY LEADS #10GA UL1015 600V WIRE 8" OFF TOP OF LAMINATION. TERMINATE WITH 1/4 FEMALE QUICK CONNECTS.
  - 4) USE 29 LAMINATION M6 E1-1 3/4 UL RECOGNIZED MEC 130 INSULATION SYSTEM.
  - 5) LABEL WITH PART NUMBER AND REVISION.
  - 6) LABEL EACH LEAD AS SHOWN.

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
2	406-7001-044	QUICK CONNECT, 1/4" 12/10 AWG	2
3	406-7001-069	QUICK CONNECT, BLUE INS. MALE	1

CN  
AB387

REV	P.L.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE	DF
B	13107	UPDATE VOLTAGE OUTPUT SPECS.	T.J.W.	02/04/94	J.L.W.	03/04/94			
A	12923	ORIGINAL ISSUE	T.J.W.	01/03/94	D.A.B.	01/20/94	D.A.B.	01/20/94	

SURFACE TREATMENT:

HEAT TREATMENT:

FIRST USED ON: AUTOBEND 7

THIRD ANGLE PROJECTION:

EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE

DECIMAL	TOLERANCE
.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.

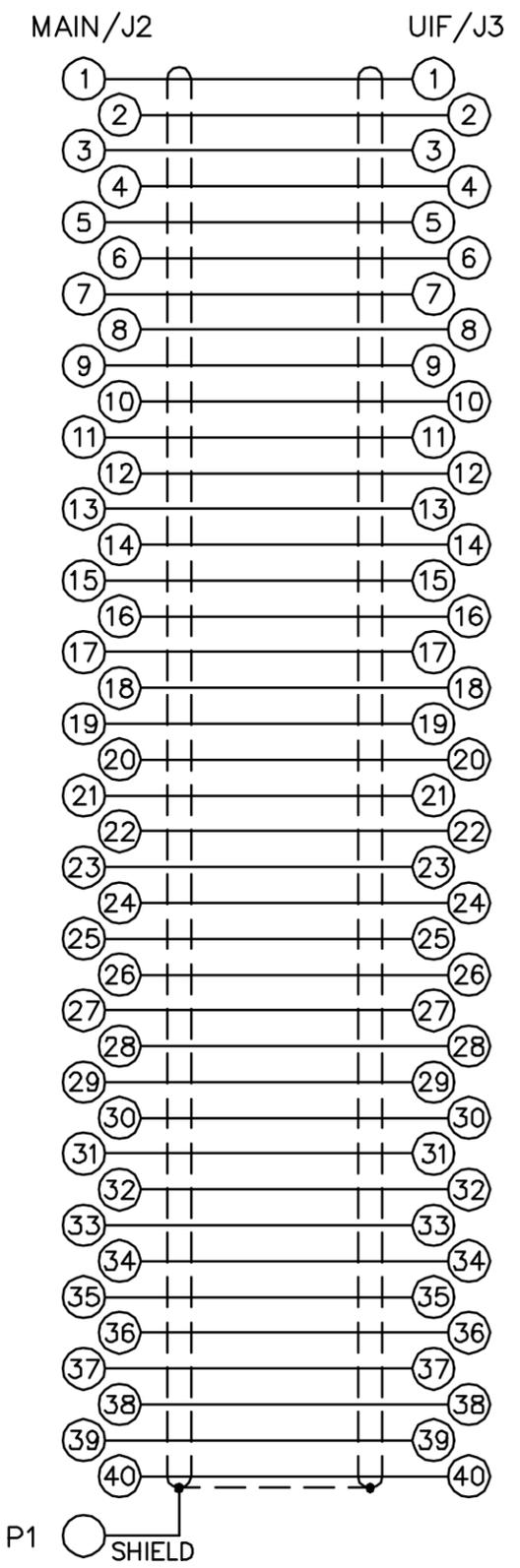
DESCRIPTION: TRANSFORMER, AB7 43VAC, 23 AMP

DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
TJW	01/03/94	D.A.B.	01/20/94		

SCALE	SIZE	DRAWING	SHT.	REV.
NONE	C	413-0003-137	1	1

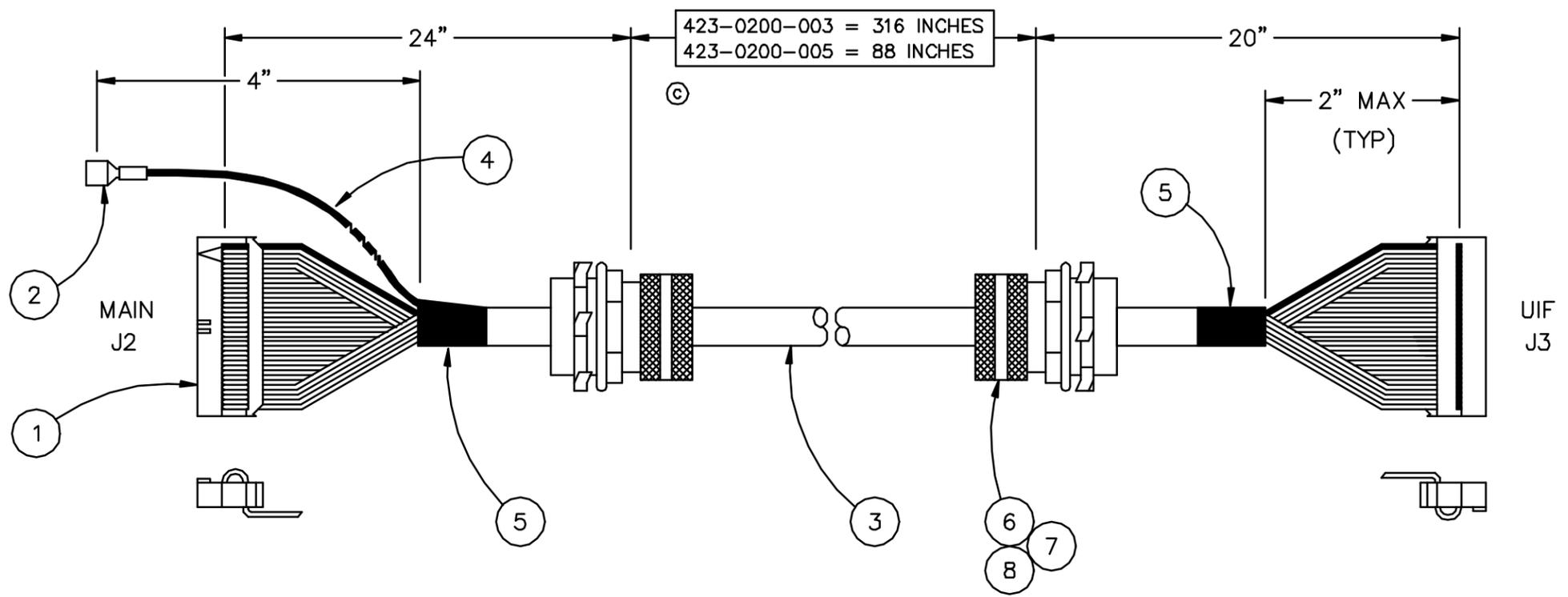
UNIT OF MEAS: PC

SCHEMATIC DIAGRAM



TO POWER CABINET

TO CONSOLE



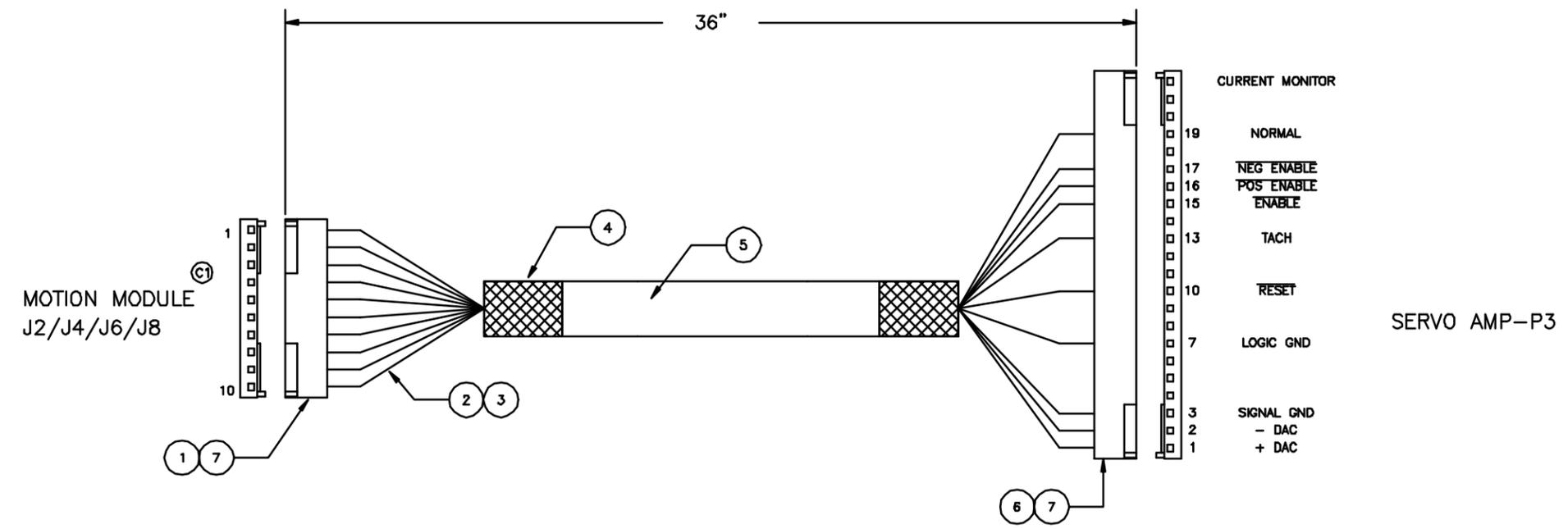
NOTES:

1. DIMENSIONS SHOWN ARE THE STRAIGHT-LINE LENGTH, TOLERANCE  $\pm 1"$
2. MINIMIZE STRIP LENGTH.
3. SOLDER GRN/YEL WIRE (ITEM 4) TO THE DRAIN WIRE OF THE RIBBON CABLE (ITEM 3) AND COVER THE SPLICE WITH HEAT-SHRINKABLE TUBING (ITEM 5.)
4. INSTALL ITEMS 5 THRU 8 BEFORE TERMINATING CABLE.
5. LABEL CABLE ENDS AS SHOWN.
6. FINISHED ASSEMBLY IS TO BE MARKED WITH THE HURCO PART NUMBER AND REVISION LETTER.

QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
2	2	408-8002-012	OIL SEAL, 1"	8
2	2	408-8501-009	LOCKNUT, 1" NPT	7
2	2	408-8003-051	SEALING GRIP, 1" NPT X 3/8"-1/2" ID	6
4"	4"	406-6481-009	TUBING, HEAT-SHRINKABLE 1" DIA BLACK	5
5"	5"	406-2005-030	WIRE, 18 AWG STRANDED GRN/YEL INS.	4
132"	360"	406-1563-005	RIBBON CABLE, 40 COND SHIELDED & JACKETED	3
1	1	406-7001-079	QUICK CONNECT, FEMALE 0.187" X 0.032"	2
2	2	406-0806-023	CONNECTOR, FEMALE 40 PIN KEYED	1
-005	-003	PARTS LIST		

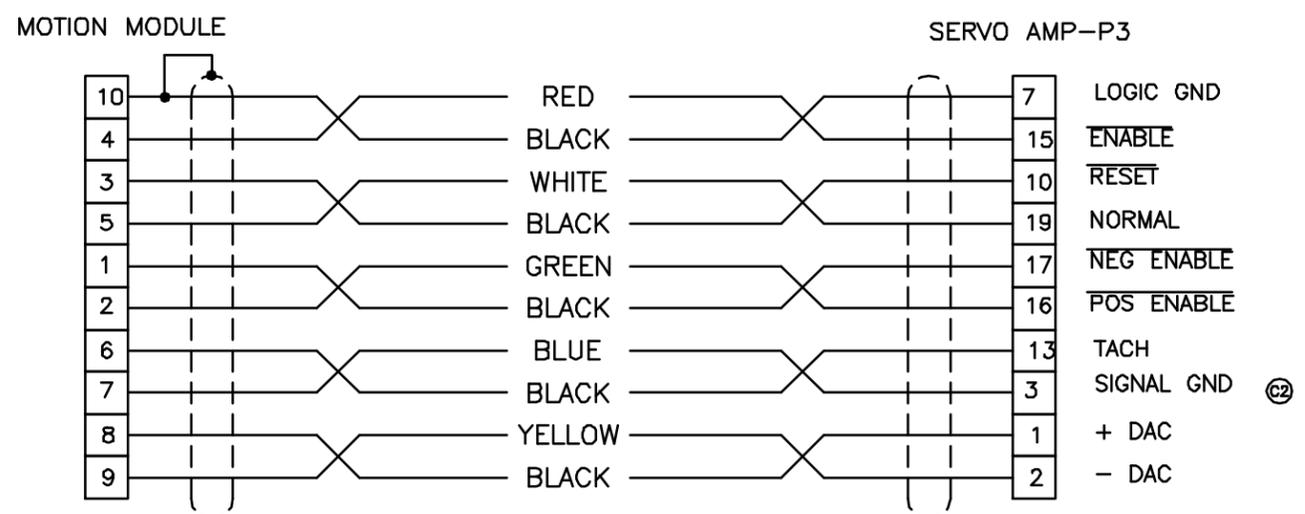
REV	E.C.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE	DF
C	13903	ADDED PART NUMBER 423-0200-005	JW	1-8 97	RH	1-13 97			
B	13762	RELEASE	SEP	07 98					
A	-	PRELIMINARY							

SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± 0'30"	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT				
FIRST USED ON		DESCRIPTION HARNESS, AB6 CONSOLE INTERFACE		
SCALE	DATE	CHECKED	DATE	APPROVED
NONE	20.FEB.96	SCA	18.JUL.96	JLW
UNIT OF MEAS.	SIZE	DRAWING		SHT.
EA	C	423-0200-003 -005		1 of 1



NOTES:

1. MARK HARNESS WITH PART NUMBER AND REVISION.
2. MARK CONNECTORS AS SHOWN.
3. SOLDER DRAIN OF ITEM 5 TO THE BLACK WIRE OF THE RED/BLACK PAIR. COVER WITH ITEM 3.



QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
20 PC	406-0801-135	TERMINAL, CRIMP 22-30 AWG	7
1 PC	406-0801-134	CONNECTOR, 22 PIN .1C STRAIGHT	6
36 IN	406-1245-006	CABLE, 5 PAIR TWISTED 24 AWG	5
2 IN	406-6481-005	SHRINK TUBE, 3/8" DIA. BLACK	4
2 IN	406-6481-002	SHRINK TUBE, 1/8" DIA. BLACK	3
2 IN	406-1687-010	WIRE, 24 AWG BLACK	2
1 PC	406-0801-141	CRIMP TERMINAL HOUSING, 10 POS.	1

REV.	DATE	BY	CHK.	DATE	APPROV.	DATE	DESCRIPTION
D	12/6/92	KLP	AB7				1) WAS 406-0803-960, 2) DELETED 406-0803-981, 3) WAS 10 PC
C	12/6/92	KLP	AB7				1) REVERSED #'S, 2) REVERSED TACH & DAC CONNECTIONS
B	12/6/92	KLP	AB7				CORRECTED NOTE 3
A	12/6/92	KLP	AB7				ORIGINAL RELEASE

**HURCO MANUFACTURING COMPANY, INC.**  
 INDIANAPOLIS, IN U.S.A.

DESCRIPTION: HARNESS, AB7 SERVO AMP IF

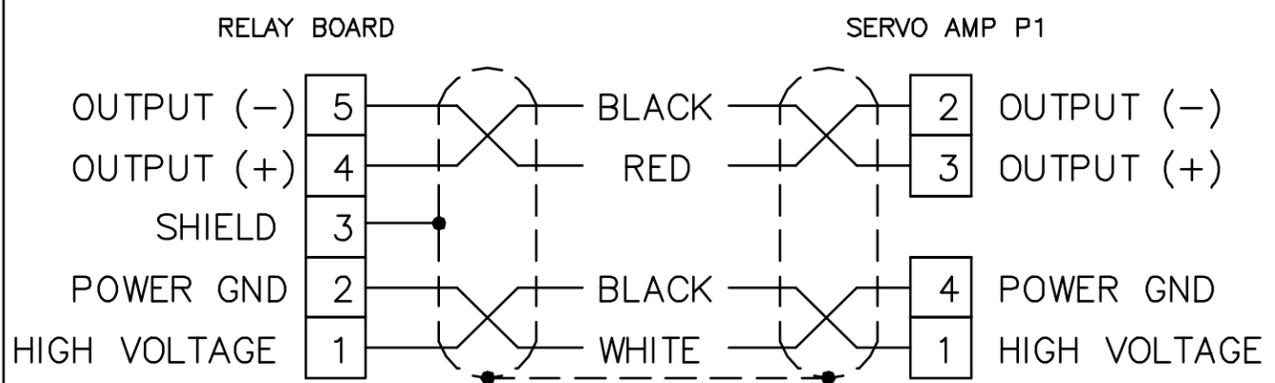
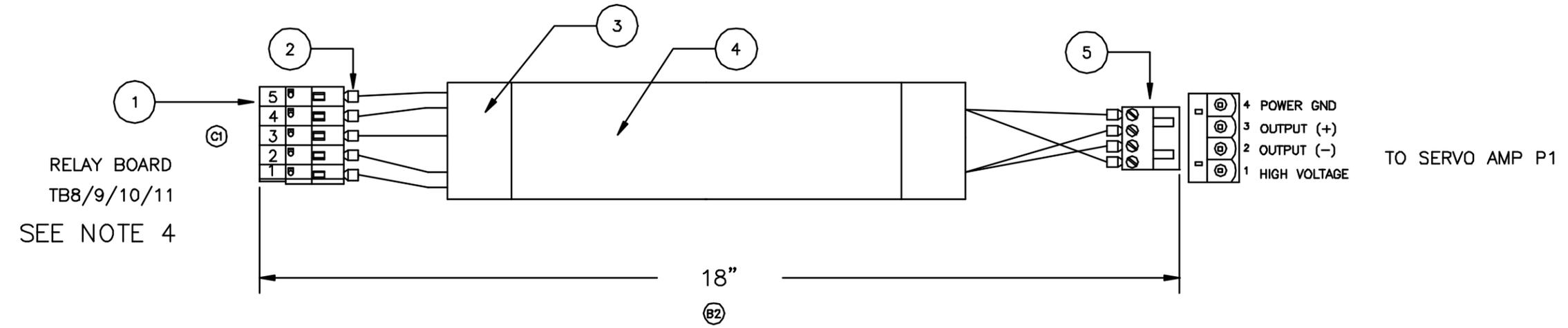
DATE: 11/16/92  
 CHECKED: MFC  
 DATE: 12/01/92

SCALE: NONE  
 UNIT OF MEAS: PC

SIZE: D  
 DRAWING: 423-0201-001

SH1. 1 OF 1 REV.

CN AB774



- NOTES:  
 1) MARK HARNESS WITH PART NUMBER AND REVISION.  
 2) MARK CONNECTORS AS SHOWN.  
 3) SOLDER DRAINS OF ITEM 5 TO 2 INCHES OF ITEM 6, AND COVER WITH 2 INCHES OF ITEM 7.  
 4) TB8: AXIS #1  
 TB9: AXIS #2  
 TB10: AXIS #3  
 TB11: AXIS #4

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
	2 IN 406-6481-002	SHRINK TUBE, 1/8	7
(C5)	2 IN 406-1683-010	WIRE, 18 AWG BLACK	6
(C4)	1 PC 406-4005-059	CONNECTOR, FEMALE 4 POS. W/LATCHES	5
(C3)(B2)	18 IN 406-1243-007	CABLE, 2 PAIR TWISTED 18 AWG	4
	2 IN 406-6481-005	SHRINK TUBE, 3/8" DIA. BLACK	3
(C2)	9 PC 406-0965-004	CRIMP FERRULE, 18 AWG RED	2
(B1)	1 PC 406-4005-213	HEADER, MALE 5 POSITION 26-14 AWG .2 PITCH	1

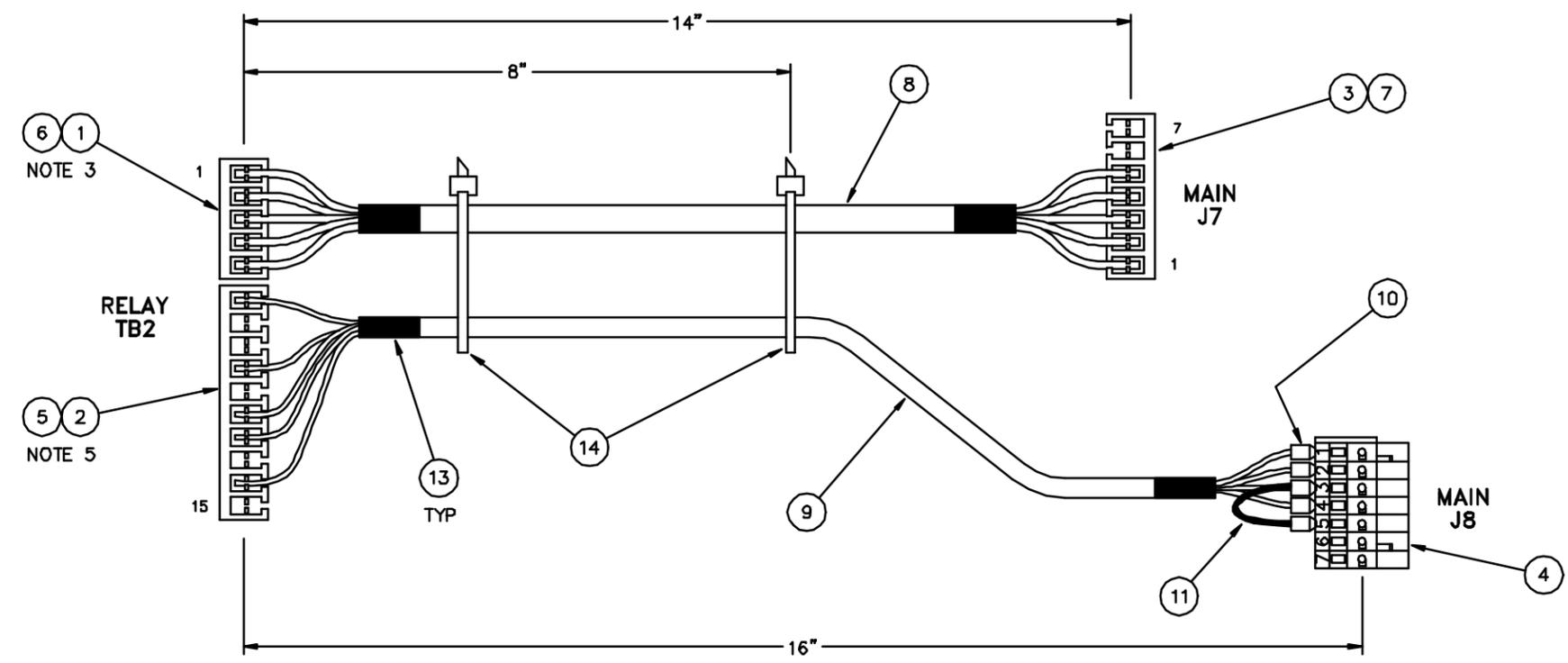
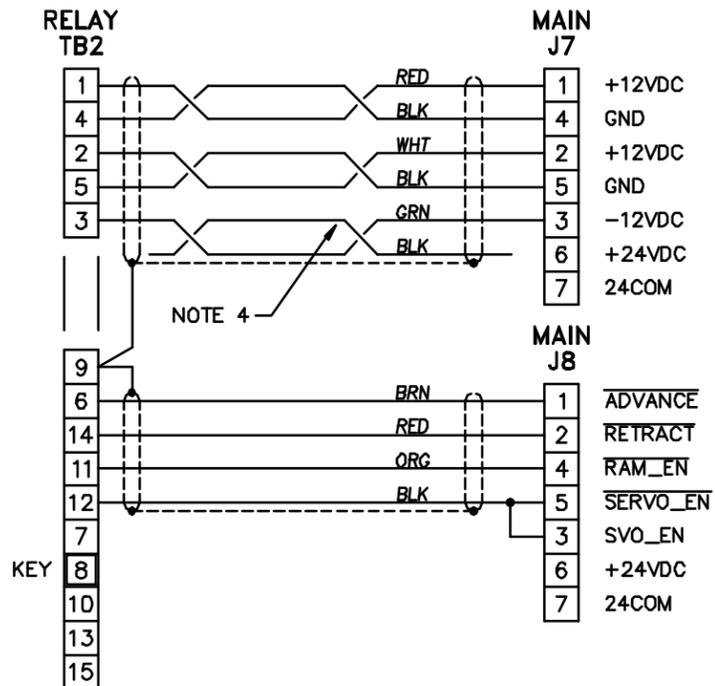
REV	P.I.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE	DF
C	12609	(5) WAS 406-2004-010 (1) REV #3, (2) WAS 406-0965-005, (3) WAS 406-1243-020, (4) WAS 406-4001-088,	KP	3/22/93	MC	3/31/93			
B	12543	1) WAS 406-4005-060, 2) WAS 36"	KP	02/18/93	AT	02/18/93	DB	2/25/93	
A	12495	RELEASE	KP	11/24/92	MC	12/01/92	DB	12/12/92	

SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 7.0300 .00 7.0150 .000 7.0050 0.000 7.0005 ANGULAR ? 0.30' BREAK ALL SHARP EDGES	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT				
FIRST USED ON		THIRD ANGLE PROJECTION	DESCRIPTION	
AB7			HARNESS, AB7 SERVO AMP POWER IF	
		SCALE NONE	DRAWN KLP	DATE 11/24/92
		UNIT OF MEAS PC	CHECKED MFC	DATE 12/01/92
			APPROVED DAB	DATE 12/12/92
			DRAWING 423-0201-002	
			SHIT. 1	REV.
			of 1	

CN  
AB776

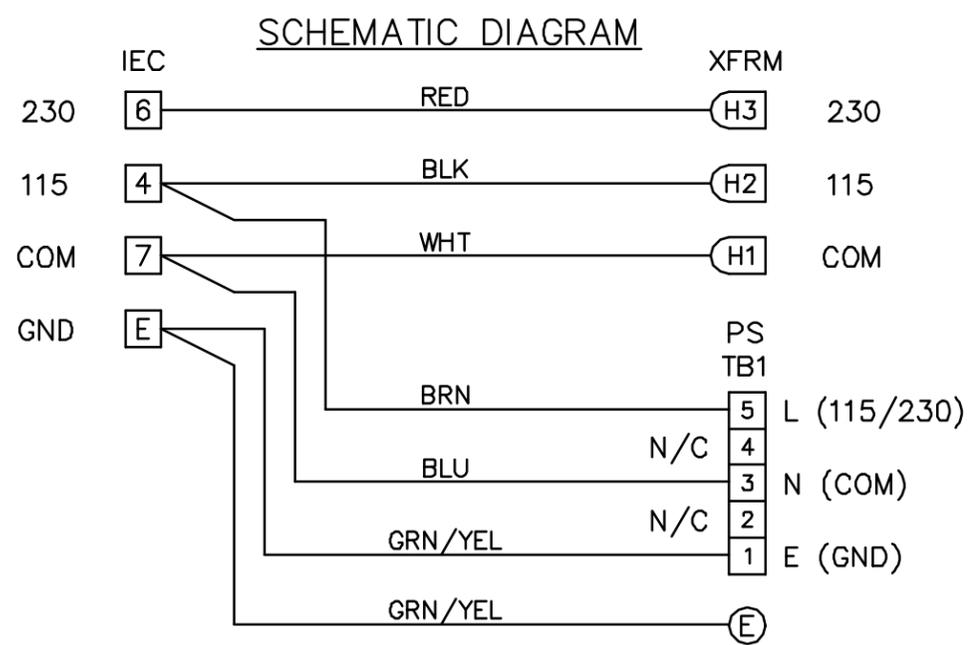
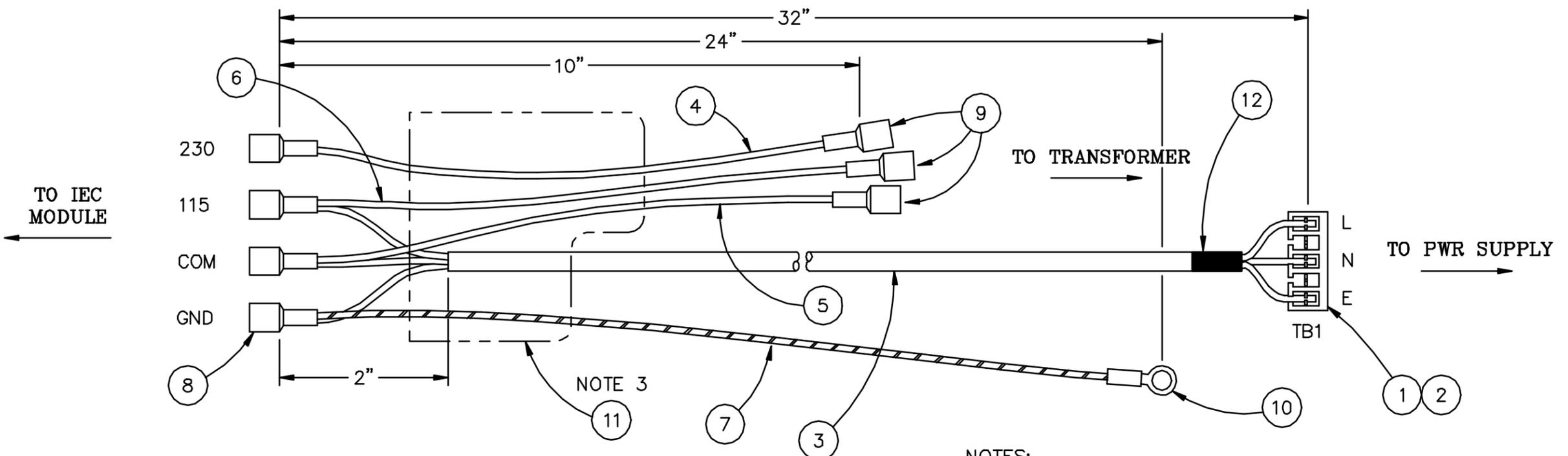
**SCHEMATIC DIAGRAM**



- NOTES:**
- DIMENSIONS SHOWN ARE STRAIGHT-LINE LENGTH, TOLERANCE  $\pm 1/2"$ .
  - FINISHED ASSEMBLY TO BE MARKED WITH THE HURCO PART NUMBER AND REVISION LETTER.
  - ASSEMBLE THE 10 POS AND 5 POS CONNECTORS USING ONE 15 POS COVER.
  - THE UNUSED WIRE OF THE GREEN/BLACK PAIR MAY BE FOLDED BACK INTO THE HEAT-SHRINK.
  - TERMINATE THE SHIELDS BY SOLDERING A SHORT LENGTH OF WIRE TO THE DRAIN WIRES AND COVER THE SPLICE WITH HEAT-SHRINKABLE TUBING (ITEM 12.)

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
2	406-5001-003	TIE-WRAP, SMALL	14
4"	406-6481-005	HEAT-SHRINKABLE TUBING, 3/8" DIA	13
1"	406-6481-002	HEAT-SHRINKABLE TUBING, 1/8" DIA	12
4"	406-2017-002	WIRE, 24 AWG STRANDED BLK INS	11
5	406-0965-014	FERRULE, 24 AWG	10
16"	406-1243-018	CABLE, 4 COND 24 AWG SHIELDED	9
14"	406-1244-007	CABLE, 3 PAIR 18 AWG SHIELDED	8
1	406-0803-964	COVER, MTA-156 7 POS	7
1	406-0803-946	COVER, MTA-156 15 POS	6
1	406-0803-086	KEYING PLUG, MTA-156	5
1	406-4005-062	CONNECTOR, 7 POS FEMALE	4
1	406-0803-077	CONNECTOR, 7 POS MTA-156 18 AWG	3
1	406-0803-935	CONNECTOR, 10 POS MTA-156 24 AWG	2
1	406-0803-225	CONNECTOR, 5 POS MTA-156 18 AWG	1

SURFACE TREATMENT 		EXCEPT AS NOTED: ALL DIMENSIONS MUST BE AS FOLLOWS INSIDE: .005" X 45° OR .005" R MAX OUTSIDE: .030" X 45° OR .005" R		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL: .0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0025 ANGULAR ±.030°		HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT 		EXCEPT AS NOTED: WELDING TOLERANCE MUST BE AS FOLLOWS ±.12		THIRD ANGLE PROJECTION 		SCALE NONE UNIT OF MEAS EA	
FIRST USED ON AutoBend 6		DATE 26.JUL.96 BY SCA		DATE 05.AUG.96 APPROVED		DATE	
A 13860 RELEASE		REVISION DESCRIPTION		DRAWING 423-0201-028		SHEET 1 OF 1	



**NOTES:**

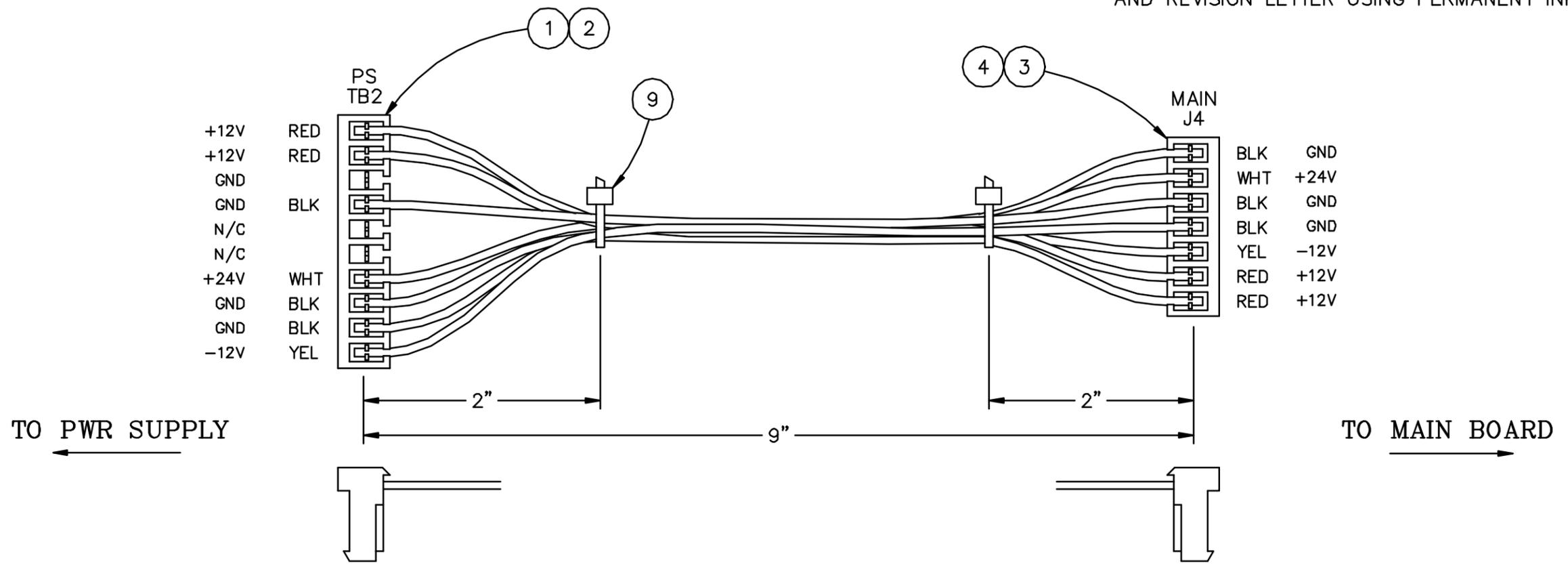
1. DIMENSIONS SHOWN ARE STRAIGHT-LINE LENGTH, TOLERANCE ±1"
2. FINISHED ASSEMBLY TO BE MARKED WITH HURCO PART NUMBER AND REVISION USING PERMANENT INK.
3. INSTALL COVER, ITEM 10, BEFORE TERMINATING CABLE.

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
	1"	406-6481-005 TUBING, HEAT-SHRINKABLE 3/8" DIA	12
	1	406-0961-026 COVER, POWER ENTRY MODULE	11
	1	406-7001-008 RING TONGUE, #10 x 22-18 AWG	10
	3	406-7001-085 QUICK CONNECT, FEM .250 x .032 16-14 AWG	9
	4	406-7001-080 QUICK CONNECT, FEM .187 x .032 16-14 AWG	8
	24"	406-2005-030 WIRE, 18 AWG GRN/YEL INS	7
	10"	406-1690-010 WIRE, 16 AWG BLK INS	6
	10"	406-1690-009 WIRE, 16 AWG WHT INS	5
	10"	406-1690-002 WIRE, 16 AWG RED INS	4
	32"	406-1247-096 CABLE, 3 x 18 AWG SVT	3
	1	406-0803-966 COVER, 5 POS	2
	1	406-0803-967 RECEPTACLE, MTA-156 5 POS 18 AWG	1

REV	E.C.N. No.	REVISION DESCRIPTION	REV	DATE	CHK	DATE	APPRO	DATE	DF
C	13762	RELEASE + ITEM 9 WAS 406-7001-037	SEP	07/96					
B	-	PRELIMINARY	SEP	02/96					
A	-	PROTOTYPE							

SURFACE TREATMENT	EXCEPT AS NOTED: ALL CORNERS MUST BE AS FOLLOWS INSIDE: .050" X 45° OR .05" R MAX OUTSIDE: .030" X 45° OR .05" R	EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± 0'30"	<p>HURCO MANUFACTURING COMPANY, INC.                  INDIANAPOLIS, IN U.S.A.</p>
HEAT TREATMENT		DESCRIPTION HARNESS, AB6 AC INPUT	
FIRST USED ON	EXCEPT AS NOTED: WELDING TOLERANCE MUST BE AS FOLLOWS ±.12	THIRD ANGLE PROJECTION	DRAWN: SEP DATE: 21.FEB.96 CHECKED: [ ] DATE: [ ] APPROVED: [ ] DATE: [ ]
AUTOBEND 6			SCALE: NONE UNIT OF MEAS: EA SIZE: C DRAWING: 423-0202-013 SHT. 1 OF 1

NOTES:  
 1. DIMENSIONS SHOWN ARE STRAIGHT-LINE LENGTH, TOLERANCE ±1"  
 2. FINISHED ASSEMBLY TO BE MARKED WITH THE HURCO PART NUMBER AND REVISION LETTER USING PERMANENT INK.



SCHEMATIC DIAGRAM

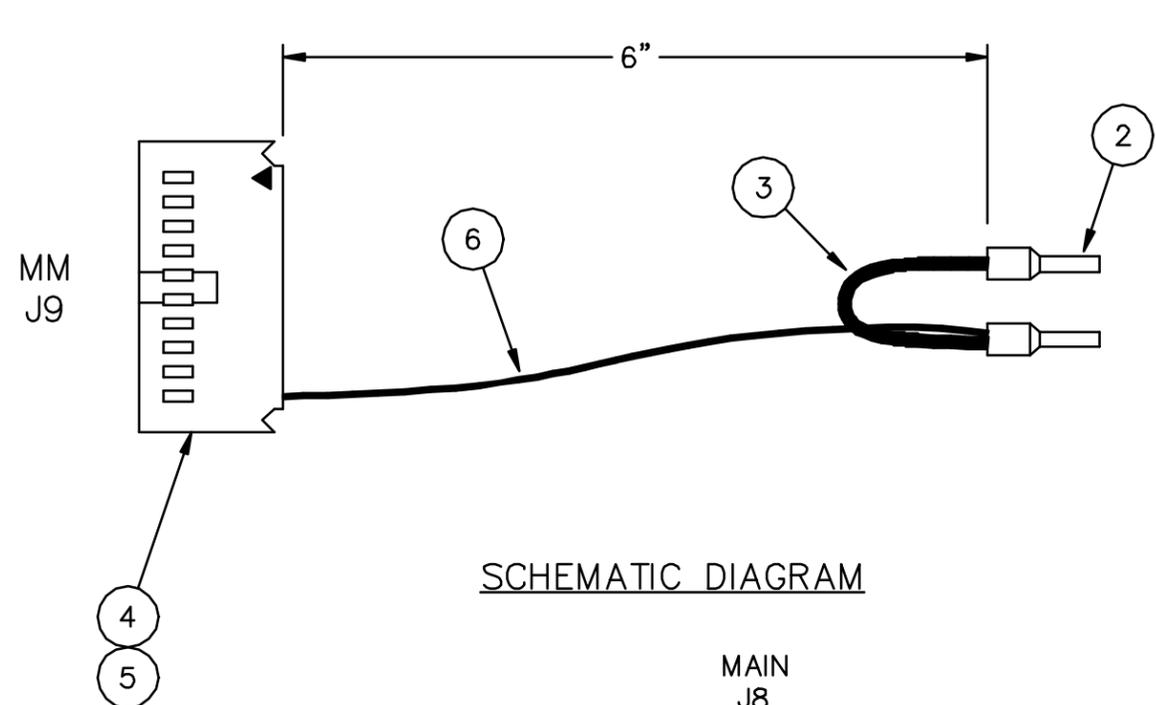
	PS TB2		MAIN J4	
+12V	1	RED	2	+12V
+12V	2	RED	1	+12V
GND	3		X	
GND	4	BLK	4	GND
N/C	5		X	
N/C	6		X	
+24V	7	WHT	6	+24V
GND	8	BLK	5	GND
GND	9	BLK	7	GND
-12V	10	YEL	3	-12V

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
2	406-5001-003	TIE WRAP, SMALL	9
9"	406-2005-040	WIRE, 18 AWG STRANDED, WHT INS	8
27"	406-2005-036	WIRE, 18 AWG STRANDED, BLK INS	7
9"	406-2005-033	WIRE, 18 AWG STRANDED, YEL INS	6
18"	406-2005-037	WIRE, 18 AWG STRANDED, RED INS	5
1	406-0803-964	COVER, 7 POS	4
1	406-0803-077	RECEPTACLE, MTA-156 7 POS 18 AWG	3
1	406-0803-971	COVER, 10 POS	2
1	406-0803-228	RECEPTACLE, MTA-156 10 POS 18 AWG	1

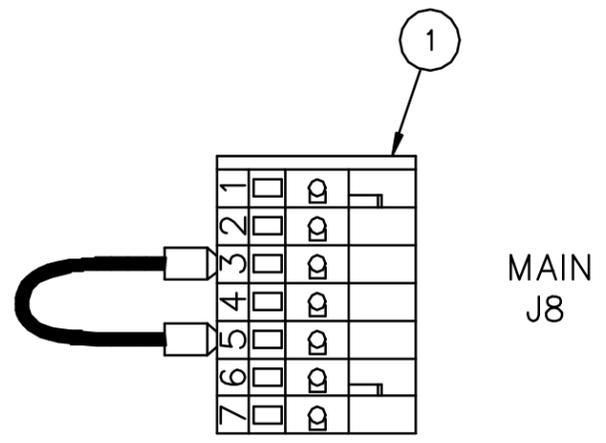
TECH NOTE:  
 CONNECTOR NUMBERING SHOWN IS FOR REFERENCE ONLY. ACTUAL POWER-SUPPLY TB2 LABELING MAY DIFFER.

REV	E.C.N. No.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE	DF
B	13762	RELEASE		SEP 07 96					
A	-	PRELIMINARY							

SURFACE TREATMENT		EXCEPT AS NOTED: ALL CORNERS MUST BE AS FOLLOWS		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT		INSIDE: .050" X 45° OR .05" R MAX		.0 ±.0300 .00 ±.0150 .000 ±.0050		DESCRIPTION	
FIRST USED ON		OUTSIDE: .030" X 45° OR .05" R		.0000 ±.0005 ANGULAR ± 0°30'		HARNES, AB6 PS TO MAIN BOARD	
AUTOBEND 6		EXCEPT AS NOTED: WELDING TOLERANCE MUST BE AS FOLLOWS ±.12		THIRD ANGLE PROJECTION		DRAWN SEP DATE 20.FEB.96	
						CHECKED DATE APPROVED DATE	
						SCALE NONE SIZE C DRAWING 423-0202-014 SHT. 1 OF 1 REV.	



SCHMATIC DIAGRAM



SCHMATIC DIAGRAM

MM J9

19
----

MAIN J8

1	ADVANCE
2	RETRACT
3	SVO EN
4	RAM EN
5	SERVO EN
6	+24VDC
7	24V COM

MAIN J8

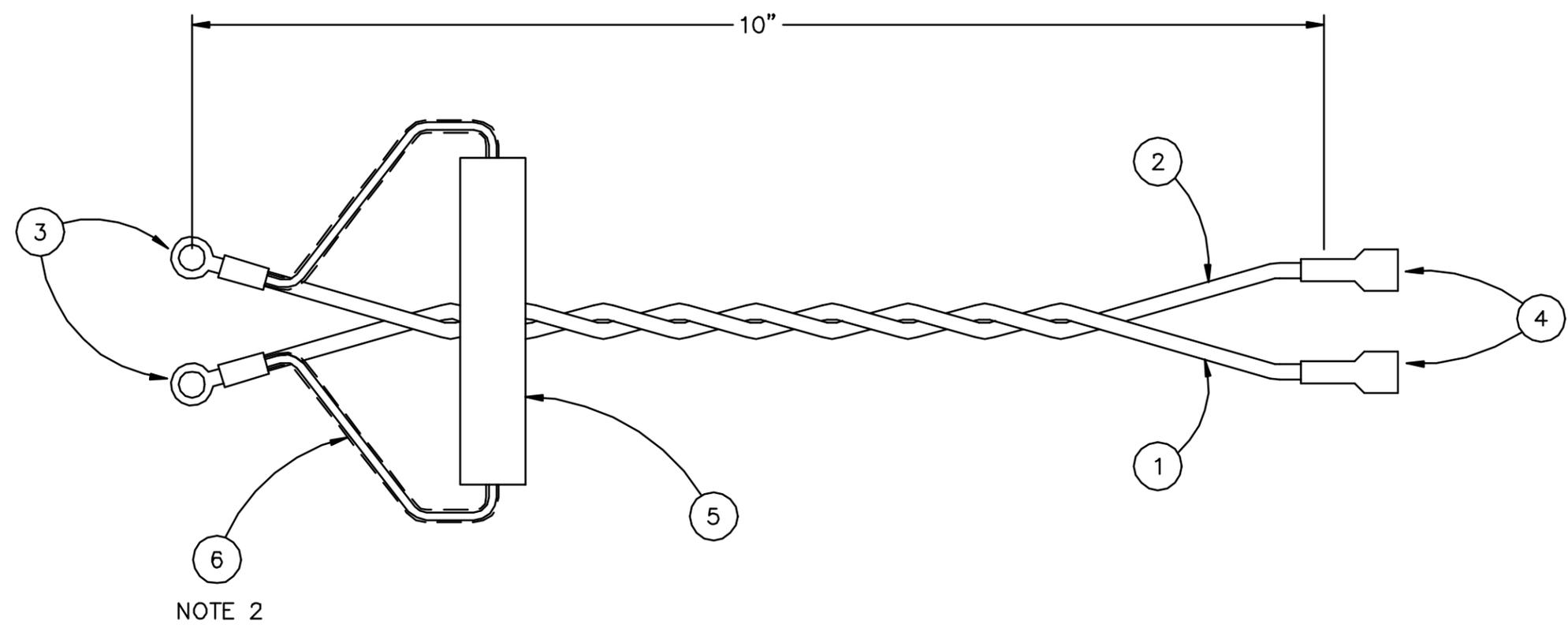
1	ADVANCE
2	RETRACT
3	SVO EN
4	RAM EN
5	SERVO EN
6	+24VDC
7	24V COM

SYSTEMS WITH MULTIPLE AXES

QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
7"	-	406-2017-005	WIRE, 24 AWG YEL INS	6
1	-	406-0903-123	HOUSING, 20 POS 2-ROW POLARIZED	5
1	-	406-0903-122	CONTACT, CRIMP FEMALE 24-20 AWG	4
3"	3"	406-2004-014	WIRE, 16 AWG YEL INS	3
2	2	406-0965-005	FERRULE, 16 AWG BLACK	2
-	1	406-4005-062	CONNECTOR, 7 POS FEMALE	1
-017	-015	PARTS LIST		

REV	E.C.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE	DF
B	13762	RELEASE		SEP 07 96					
A	-	PRELIMINARY							

SURFACE TREATMENT	EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.			
HEAT TREATMENT	.0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± 0°30'	DESCRIPTION HARNES, AB6 USER I/O			
FIRST USED ON	THIRD ANGLE PROJECTION	DRAWN SEP	DATE 19.FEB.96	CHECKED	DATE
AUTOBEND 6		SCALE NONE	SIZE C	DRAWING 423-0202-015	SHT. 1 OF 1
		UNIT OF MEAS. EA		-017	



NOTES:

1. DIMENSIONS ARE STRAIGHT-LINE LENGTH, TOLERANCE  $\pm 1/2"$ .
2. RESISTOR LEADS ARE TO BE FULLY INSULATED.
3. MARK FINISHED ASSEMBLY WITH HURCO PART NUMBER AND REVISION LETTER.

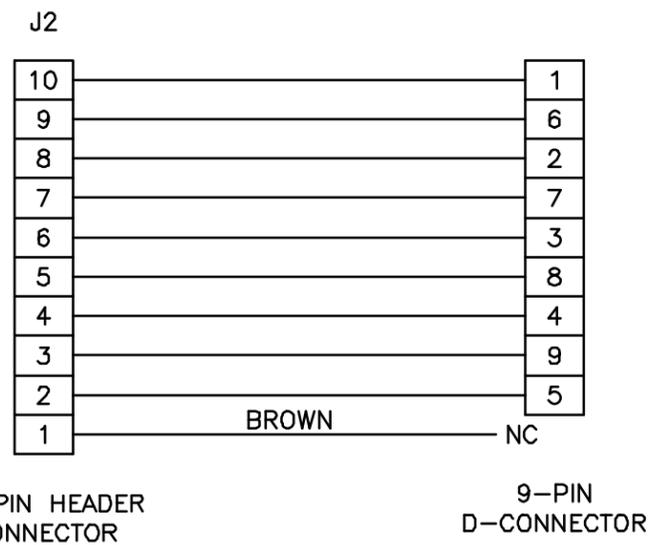
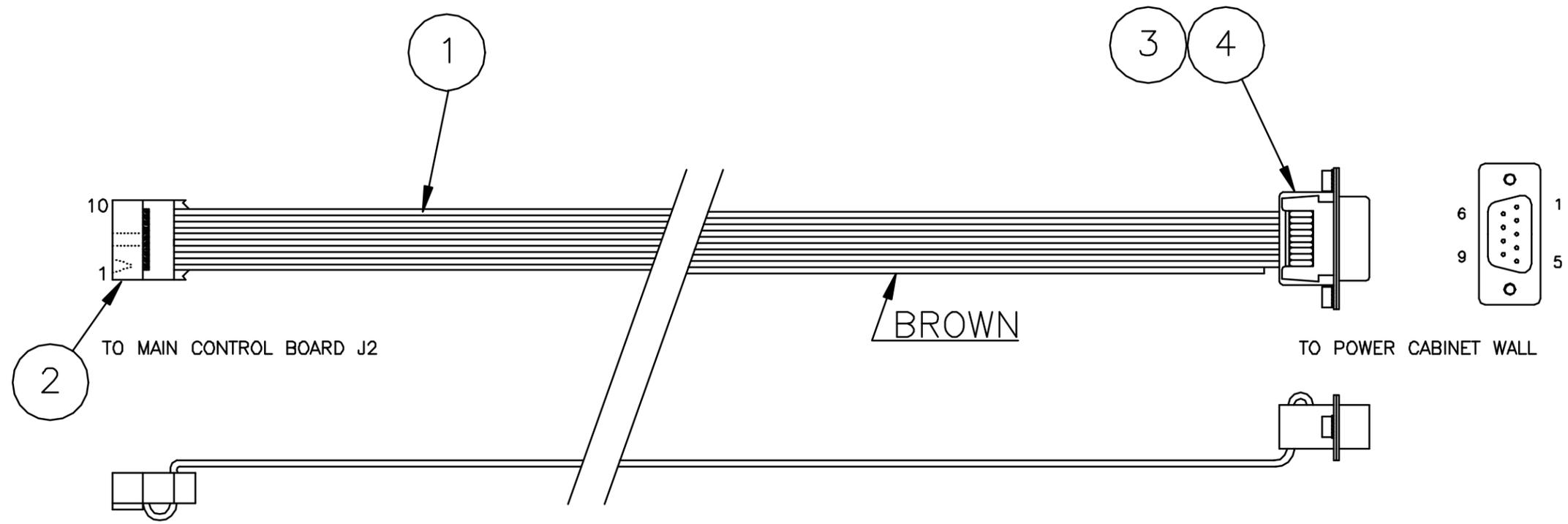
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
6"	406-6011-024	TUBING, 0.053" ID TEFLON	6
1	407-0032-003	RESISTOR, 3300 OHM 10% 10W WIREWOUND	5
2	406-7001-068	QUICK CONNECT, 1/4" 16-14 AWG (BLUE)	4
2	406-7001-088	RING TONGUE, #10 X 16-14 AWG (BLUE)	3
10"	406-2003-019	WIRE, 14 AWG WHT INS	2
10"	406-2003-012	WIRE, 14 AWG RED INS	1

REV	E.C.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE	DF
B	13762	RELEASE + ITEM 3 WAS 406-7001-031		SEP 07		96			
A	-	PRELIMINARY							

SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± 0°30'	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.				
HEAT TREATMENT							
FIRST USED ON		SCALE	DATE	CHECKED	DATE	APPROVED	DATE
AUTOBEND 6		NONE	20.FEB.96				
THIRD ANGLE PROJECTION		UNIT OF MEAS.	SIZE	DRAWING		SHT.	REV.
		EA	C	423-0202-016		1	1



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- NOTE 1: BROWN CONDUCTOR AT ARROW SIDE OF ITEM 2.  
 2: LABEL HARNESS WITH PART NUMBER & REVISION.  
 3: OVERALL LENGTH TO BE 8"±1/2"  
 4: ATTACH ITEM 5 TO ITEM 3.  
 5: LABEL CONNECTOR AS SHOWN

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	406-0961-023	DUST COVER, DB9	5
1	406-0806-029	STRAIN RELIEF, 9-PIN	4
1	406-0806-033	CONN, 9-PIN MALE "D" W/ THDED INSERTS	3
1	406-0806-017	CONNECTOR, 10 PIN W/ STRAIN RELIEF	2
8"	406-1559-004	CABLE, 10 CONDUCTOR FLAT	1

PARTS LIST

SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0        ? .0300 .00      ? .0150 .000     ? .0050 .0000   ? .0005 ANGULAR ? 0730' BREAK ALL SHARP EDGES	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT				
FIRST USED ON			DRAWN: KLP DATE: 02/17/93 CHECKED: MFC DATE: 02/18/93 APPROVED: [Signature] DATE:	HARNESS, AB7 RS-232
AB7 		SCALE: NONE UNIT OF MEAS: PC	SIZE: B DRAWING: 423-0205-001	SHIT. 1 OF 1 REV.

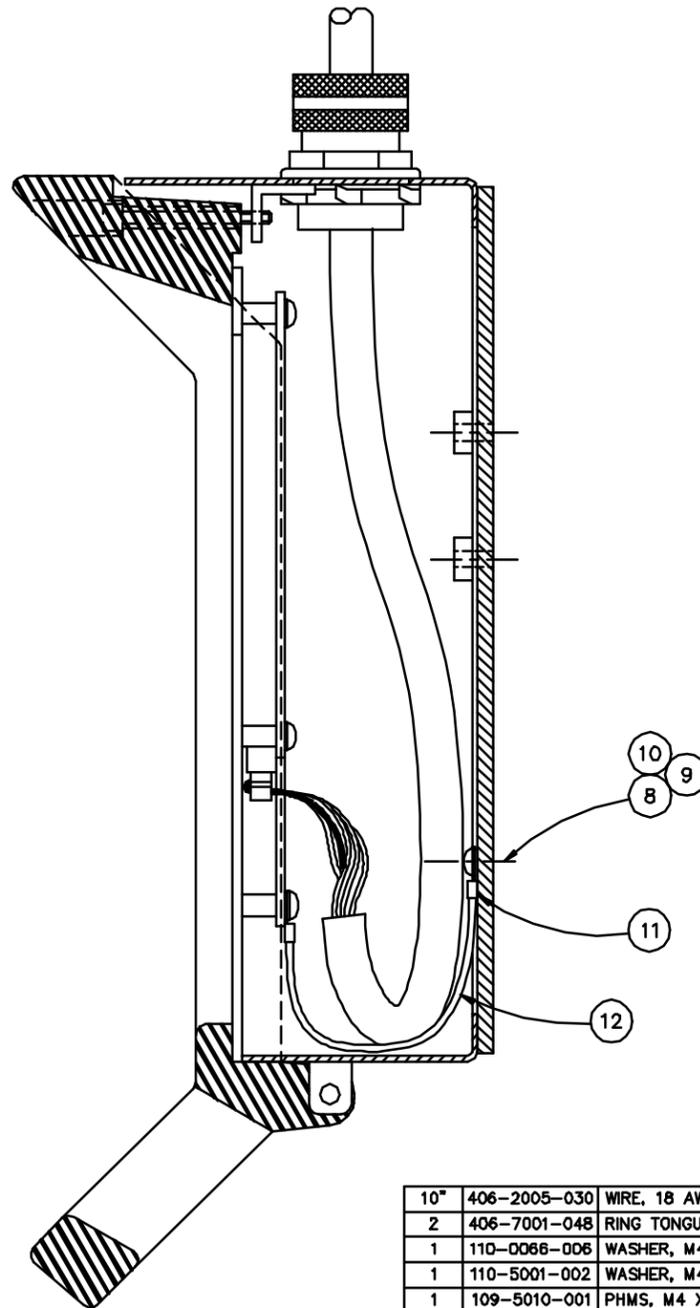
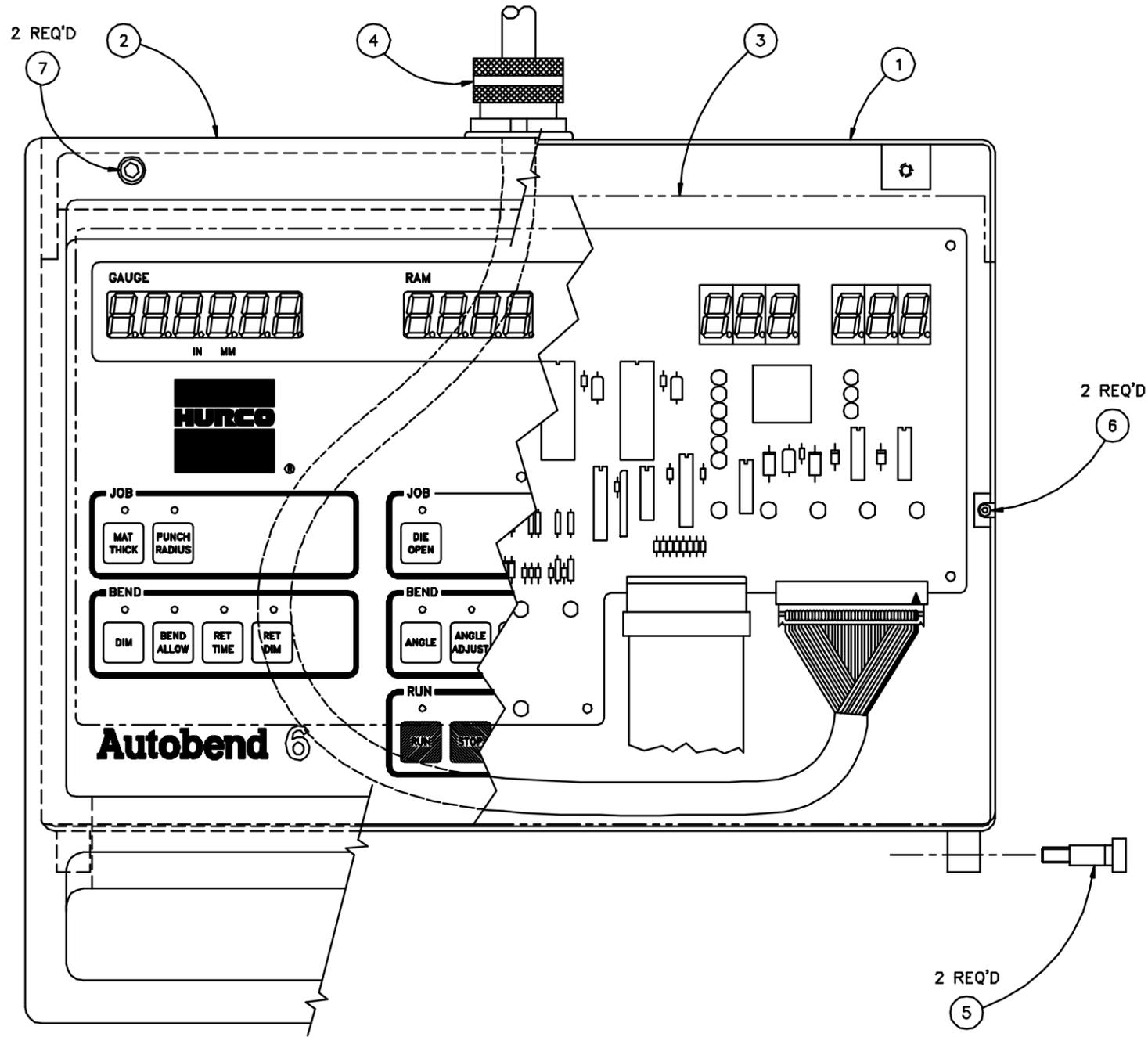
REV	P.I.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE	DF
A	12543	ORIGINAL RELEASE							

CN  
 AB795

Console

Console

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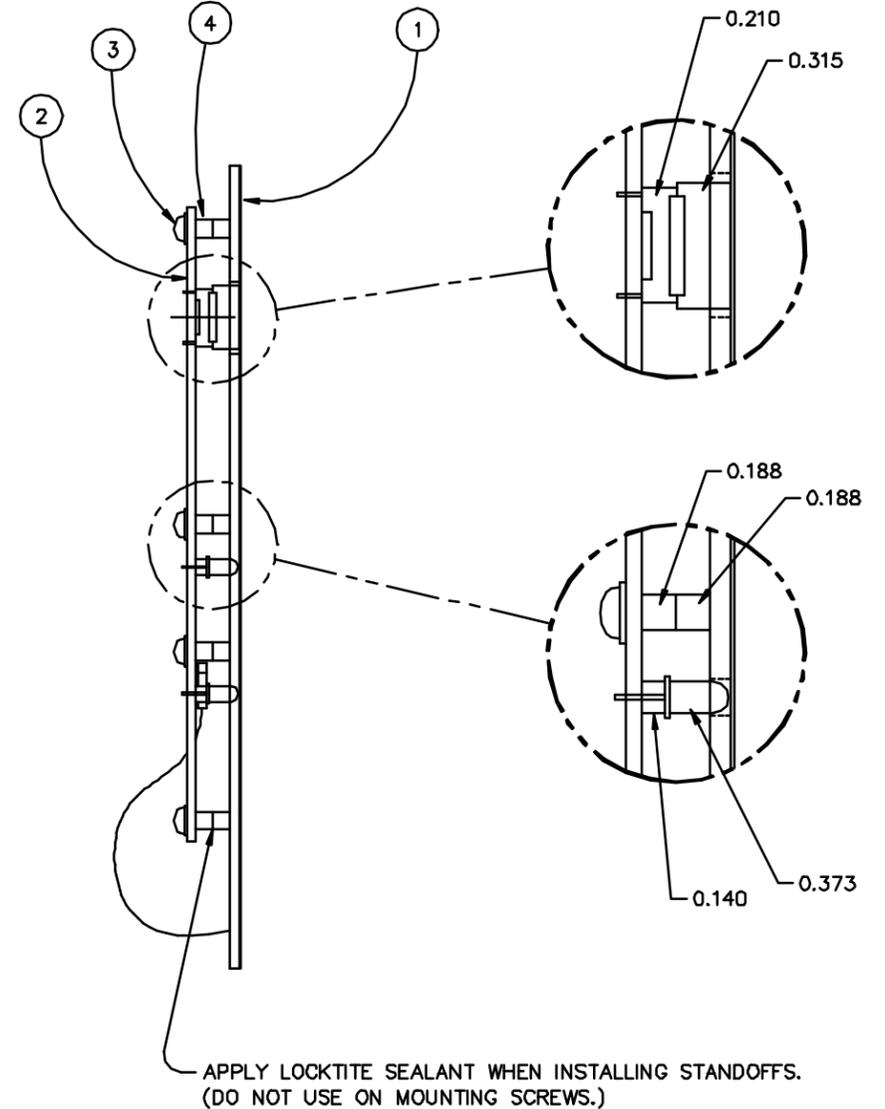
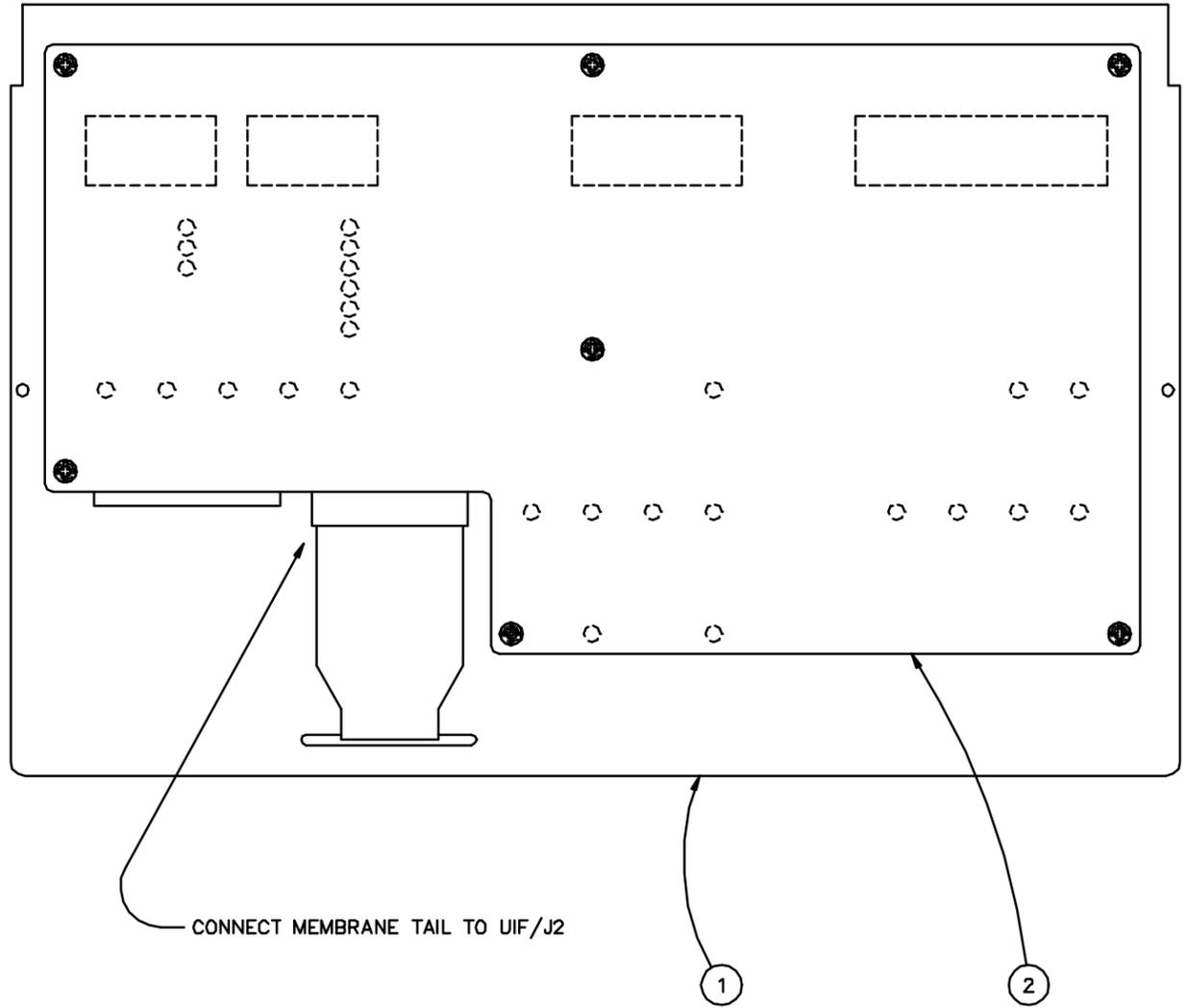
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
10*	406-2005-030	WIRE, 18 AWG STRANDED GRN/YEL INS.	12
2	406-7001-048	RING TONGUE, #8 X 18-22 AWG (RED)	11
1	110-0066-006	WASHER, M4 EXT TOOTH	10
1	110-5001-002	WASHER, M4 FLAT	9
1	109-5010-001	PHMS, M4 X 0.7 X 6	8
2	101-5007-012	SHCS, M5 X 0.8 X 45	7
2	108-5001-002	BHCS, M3 X 0.5 X 8	6
2	115-5002-002	SHSS, M6 X 8 DIA X 16 LG	5
REF	423-0200-003	HARNESS, CONSOLE INTERFACE	4
1	001-2104-001	ASSEMBLY, FRONT PANEL	3
1	801-0787-001	BEZEL, CONSOLE	2
1	801-0781-006	ENCLOSURE, CONSOLE	1

REV	DATE	BY	DATE	BY	DATE	BY	DESCRIPTION
C	13762	RELEASE	SEP 07 98				
B		PRELIMINARY	SEP 02 98				
A		PROTOTYPE					

SURFACE TREATMENT	EXCEPT AS NOTED ALL DIMENSIONS MUST BE AS FOLLOWS TOLERANCE	EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE	HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.
HEAT TREATMENT	INSIDE: .005" X 45° OR .005" R MAX. OUTSIDE: .030" X 45° OR .005" R	DECIMAL: ±.0300 ±.0190 .00 ±.0050 0.000 ±.0008 ANGULAR ±.050°	
FIRST USED ON	EXCEPT AS NOTED WELDING TOLERANCE MUST BE AS FOLLOWS ±.12	THIRD ANGLE PROJECTION	DESCRIPTION ASSEMBLY, AB6 CONSOLE DRAWN SEP DATE 08.JUL.98 CHECKED DATE APPROVED DATE SCALE NONE UNIT OF MEAS EA SIZE D DRAWING 001-2103-001 SH. 1 OF 1 REV.

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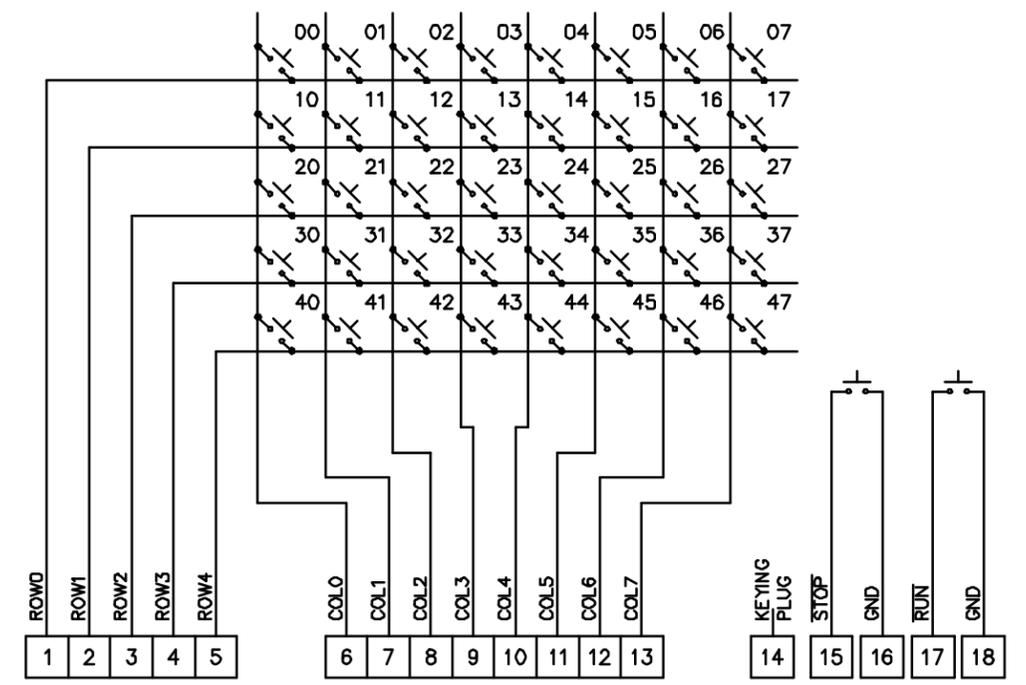
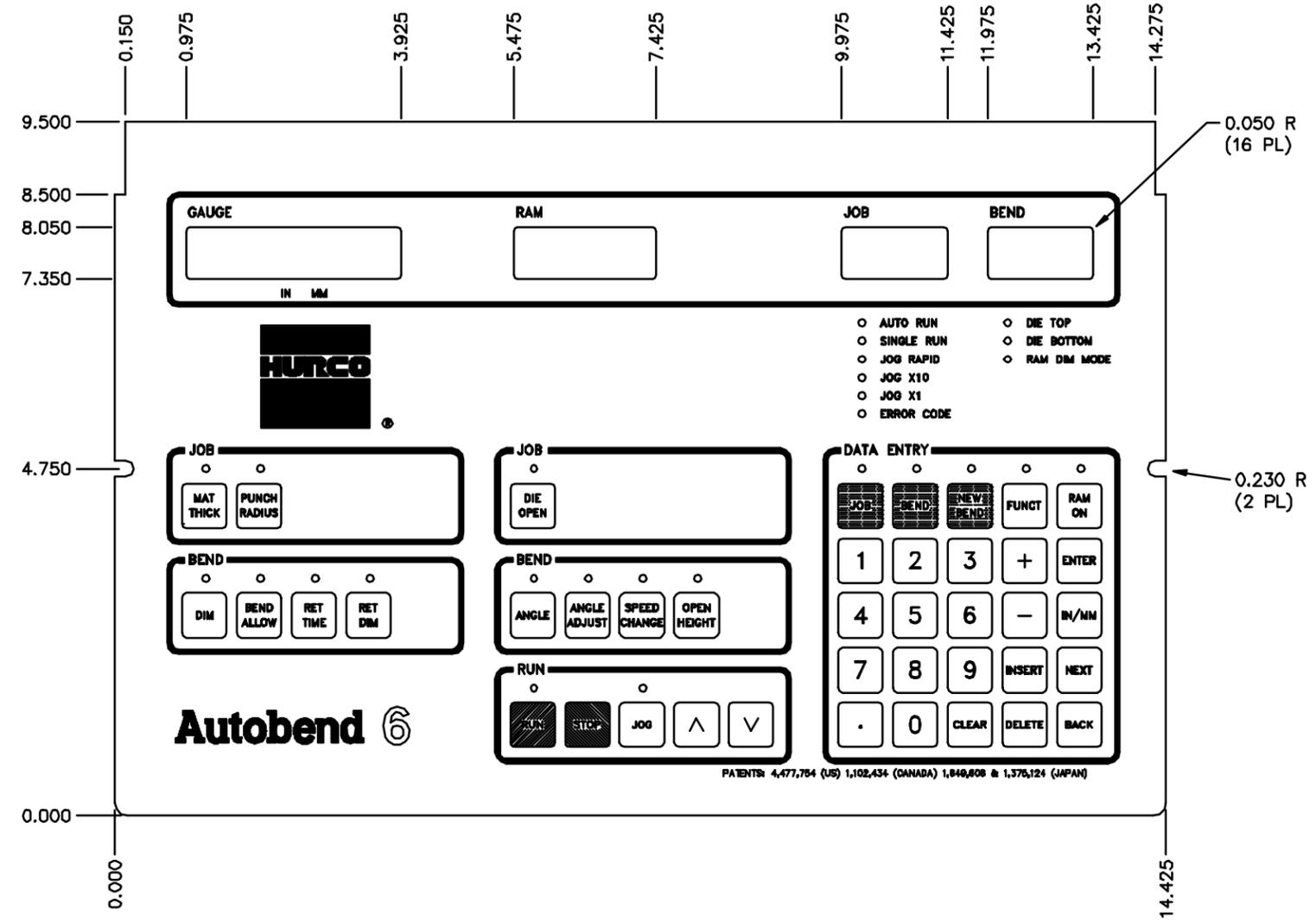
**WARNING:**  
 STATIC-SENSITIVE DEVICES  
 OBSERVE ESD-PROTECTION PROCEDURES

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
7	110-0124-006	STANDOFF, 6-32 X 3/16" M-F (RAF #4000-632-A)	4
7	109-0002-020	PPHMS, 6-32 X 1/4"	3
1	415-0263-001	PCB ASSY, USER INTERFACE	2
1	405-3001-027	PANEL, MEMBRANE SWITCH/DISPLAY	1

REV	DATE	BY	DESCRIPTION
C	13762	SEP 07 98	RELEASE OF DRAWING
B	13641	SEP 07 98	ITEM 4 ADDED
A	-	-	PRELIMINARY

SURFACE TREATMENT		EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL		HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.	
~		.00	±.0000	DESCRIPTION	
		.000	±.0150	ASSEMBLY, AB6 FRONT PANEL	
		.0000	±.0025	DRAWN	SEP
			±.0005	DATE	15.FEB.96
			ANGULAR ± 0°30'	CHECKED	SCA
			BREAK ALL SHARP EDGES	DATE	18.JULY.96
			THIRD ANGLE PROJECTION	APPROVED	
				DATE	
				SCALE	1:1
				SIZE	D
				UNIT OF MEAS.	EA.
				SHY.	1
				REV.	

SCHEMATIC DIAGRAM



KEY MAPPING

XX = ROW,COL

- 00 - BACK
- 01 - NEXT
- 02 - IN/MM
- 03 - ENTER
- 04 - RAM ON
- 05 -
- 06 - PUNCH RADIUS
- 07 - MAT THICK
- 20 - CLEAR
- 21 - NINE
- 22 - SIX
- 23 - THREE
- 24 - NEW BEND
- 25 - RET TIME
- 26 - ANGLE ADJUST
- 27 - JOG
- 40 - PERIOD
- 41 - SEVEN
- 42 - FOUR
- 43 - ONE
- 44 - JOB
- 45 - DIM
- 46 - OPEN HEIGHT
- 47 - DECREMENT
- 10 - DELETE
- 11 - INSERT
- 12 - MINUS
- 13 - PLUS
- 14 - FUNCT
- 15 - DIE OPEN
- 16 - ANGLE
- 17 - RET DIM
- 30 - ZERO
- 31 - EIGHT
- 32 - FIVE
- 33 - TWO
- 34 - BEND
- 35 - BEND ALLOW
- 36 - SPEED CHANGE
- 37 - INCREMENT

FRONT VIEW

SEE SHT 2 FOR ADDITIONAL DETAILS

MATERIALS:

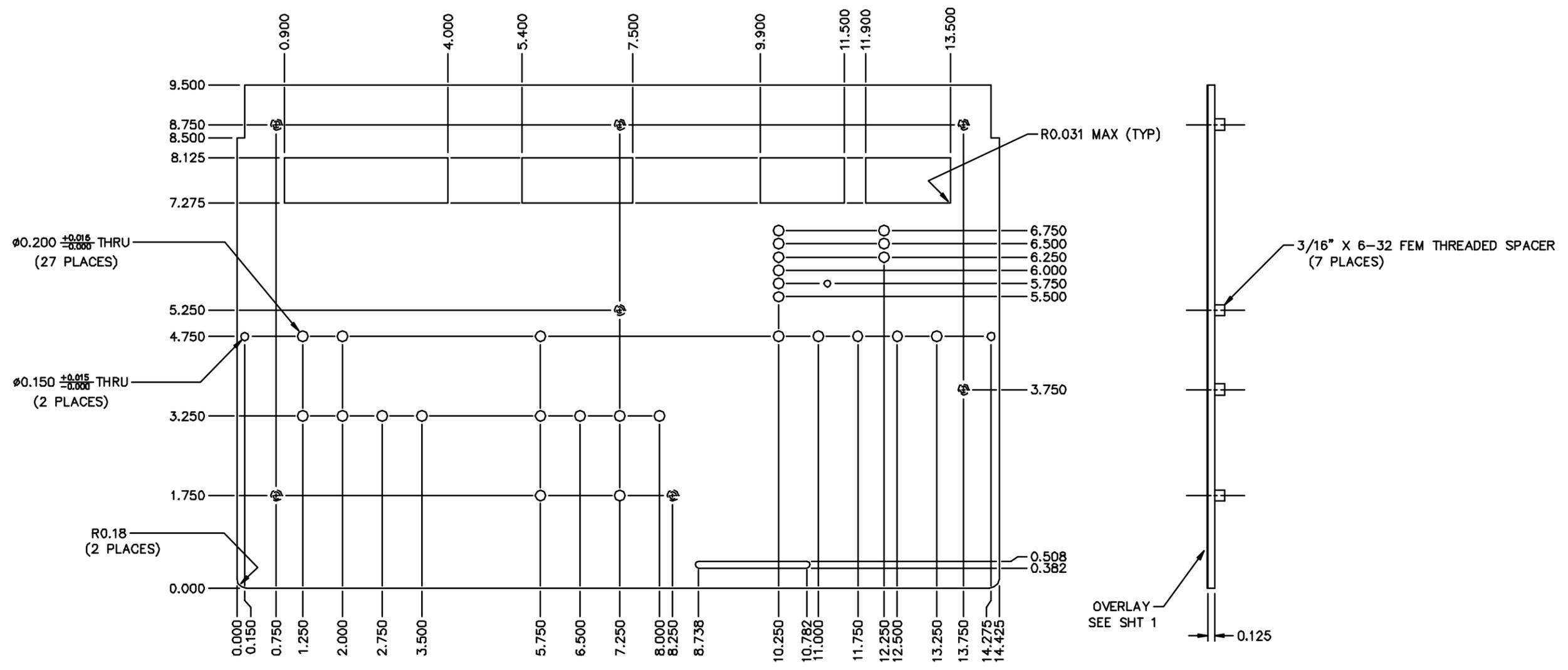
GRAPHIC LAYER: 0.007" THICK VELVET LEXAN OVERLAY, BACKPRINTED WITH 5 OPAQUE COLORS PLUS TRANSPARENT RED.  
 SWITCH LAYERS: 0.005" THICK CLEAR MYLAR WITH SILVER CONTACTS.  
 ELECTRICAL CONNECTION VIA 4.5" LONG TAIL TERMINATED TO MATE WITH AN 18-PIN HEADER.  
 BACKING PANEL: 0.125" THICK ALUMINUM ALLOY, DESCRIBED ON SHT 2.

COLORS:

1. KEY TEXT AND BACKGROUND - BLACK
2. "RUN" KEY - GREEN (CF# 702)
3. "STOP" KEY - RED (CF# 573)
4. "JOB", "BEND", "NEW BEND" KEYS - YELLOW (CF# 665)
5. OUTLINES, LOGOS AND ALL OTHER TEXT - WHITE (CF# 598)
6. DISPLAY WINDOWS - TRANSPARENT RED (CF# 627)

C 13762 RELEASE		SEP 07 96	SURFACE TREATMENT		EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL	HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.	
B - PRELIMINARY		SEP 02 96	TREAT TREATMENT		.00 ±0.000	DESCRIPTION	
A - PROTOTYPE			FIRST USED ON		.01 ±0.010	PANEL, AB6 MEMBRANE SWITCH/DISPLAY	
REV. DATE BY		REV. DATE BY	THIRD ANGLE PROJECTION		.000 ±0.005	DRAWN DATE CHECKED DATE APPROVED DATE	
			AUTOBEND 6		ANGULAR ± 0°30'	DRAWN SEP 08-JUL-96	
					BREAK ALL SHARP EDGES	SCALE 1:1 SIZE D	
					UNIT OF MEAS. EA.	DRAWING 405-3001-027 SHY. 1 OF 2 REV. 2	

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NOTE: INTERIOR LAYERS TO BE DIE CUT TO BACKER-PLATE DIMENSIONS SHOWN.

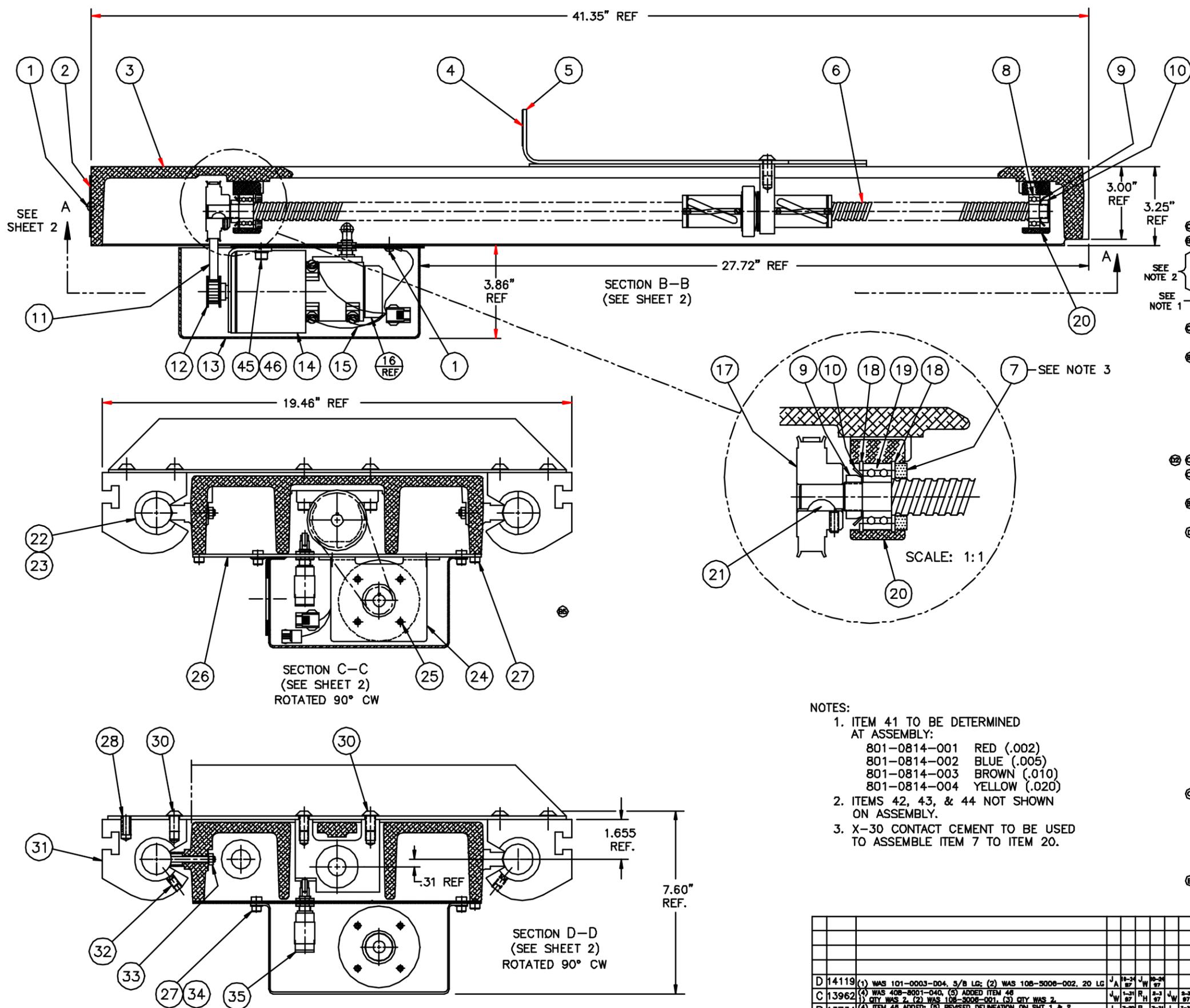
AB 938-2

SURFACE TREATMENT ~	EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 ±.000 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± 0°30' BREAK ALL SHARP EDGES	HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.			
		DESCRIPTION PANEL, AB6 MEMBRANE SWITCH/DISPLAY			
HEAT TREATMENT ~	THIRD ANGLE PROJECTION	SCALE 1:1	SIZE D	DRAWING 405-3001-027	REV. 2
FIRST USED ON AUTOBEND 6					

Backgauge

Backgauge

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QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
2	110-5001-005	FLAT WASHER, M8	46
2	101-5010-003	SHCS, M8 X 1.25 P X 16 LG	45
4	111-0241-001	RIVET, AD-32 SCOVIL	44
1	703-1001-129	INFO & WARNING LABEL	43
1	001-1430-001	ASSY, SHIPPING BOX	42
1	801-0814-XXX	SHIM STOCK	41
2	801-2008-001	BUMPER, GAUGE RUBBER	40
4	408-8001-013	PLUG, HOLE HEYCO #DP-875	39
2	112-5024-004	SPRING PIN, M6 DIA X 20 LG	38
4	101-5010-007	SHCS, M8 X 1.25 P X 25 LG	37
2	901-0080-001	ROD, GUIDE	36
1	404-5202-012	LIMIT SWITCH	35
3	110-5001-004	FLAT WASHER, M6	34
8	117-0100-007	LOCKNUT, M6 X 1 P	33
4	103-5165-021	SSS, M8 X 1.25 P X 10 LG. CONE PT.	32
2	801-0703-001	BLOCK, BEARING	31
10	108-5006-001	BHSCS, M10 X 1.5 P X 16 LG.	30
			29
4	112-5026-001	SPRING PIN, M10 DIA X 20 LG	28
7	101-5008-003	SHCS, M6 X 1.0 P X 12 LG	27
1	801-2000-008	PLATE, S6 BOTTOM	26
4	101-0003-002	SHCS, #8-32 X 3/8 LG	25
1	801-0641-001	BRACKET, MOTOR MOUNTING	24
4	211-5002-008	BUSHING, BALL SUPER 20-OPN	23
4	608-0005-005	SEAL, BALL BUSHING OP STD 1.25	22
1	609-0001-010	KEY, WOODRUFF, #4 3/32 X 5/8	21
2	801-2012-001	SUPPORT, BALL SCREW BEARING	20
1	211-0035-003	BEARING, DBL ROW BALL, #MRC-5202SBKZZ	19
2	113-0008-025	RETAINING RING, BOW 1.375 X 1.526	18
1	208-0002-039	PULLEY, GEAR BELT, BROWN #36XLM037	17
REF	416-0248-054	ENCODER, 254 LINE DIFF.	16
1	423-0204-001	HARNESS GAUGE INTERNAL AB7 S6,7,8	15
1	001-2009-003	M.T.E. AB7, 254 LINE	14
1	801-2014-008	COVER, S6 MOTOR	13
1	208-0002-006	SPROCKET, 18XL037 1/2" DIA BORE	12
1	204-0002-007	BELT, TIMING, 130 X L037	11
2	211-0087-001	LOCKNUT, BEARING, AFBMA N-02	10
2	211-0088-001	LOCKWASHER, BEARING, AFBM W-02	9
1	211-0009-025	BEARING, BALL 6202-2RS	8
1	801-0746-001	RING, STOP BUMPER	7
1	001-1525-006	ASSY, NEW S6 BALL NUT/BALL SCREW	6
1	801-0712-003	CARRIAGE, S6 GAUGE	5
1.6	703-0003-009	TAPE, BLK/YEL STRIPED WARNING	4
1	801-0706-002	FRAME, S6 MAIN	3
1	703-1001-080	NAMEPLATE, S6	2
3	123-0001-008	SCREW, PPH, TYPE B TAP #10 X 1/2 LG	1

- NOTES:
- ITEM 41 TO BE DETERMINED AT ASSEMBLY:  
 801-0814-001 RED (.002)  
 801-0814-002 BLUE (.005)  
 801-0814-003 BROWN (.010)  
 801-0814-004 YELLOW (.020)
  - ITEMS 42, 43, & 44 NOT SHOWN ON ASSEMBLY.
  - X-30 CONTACT CEMENT TO BE USED TO ASSEMBLE ITEM 7 TO ITEM 20.

REV	DATE	BY	DESCRIPTION	REV	DATE	BY	DESCRIPTION
D	14119		(1) WAS 101-0003-004, 5/8 LG; (2) WAS 108-5006-002, 20 LG				
C	13962		(4) WAS 408-8001-040, (5) ADDED ITEM 48				
B	13734		(1) QTY WAS 2, (2) WAS 108-5006-001, (3) QTY WAS 2				
			(4) ITEM 48 ADDED; (5) REVISED DELINEATION ON SHIT 1 & 2				
A	13656		(1) QTY WAS 2; (2) WAS 108-5004-002; (3) WAS 101-5010-008				

SURFACE TREATMENT: S6

EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL: 0 ± .0300, .00 ± .0180, .0000 ± .0080, .0000 ± .0008

HEAT TREATMENT: ANGLE: 40°/30° BREAK: ALL SHARP EDGES

THIRD ANGLE PROJECTION

SCALE: 1=2

UNIT OF MEAS: EA.

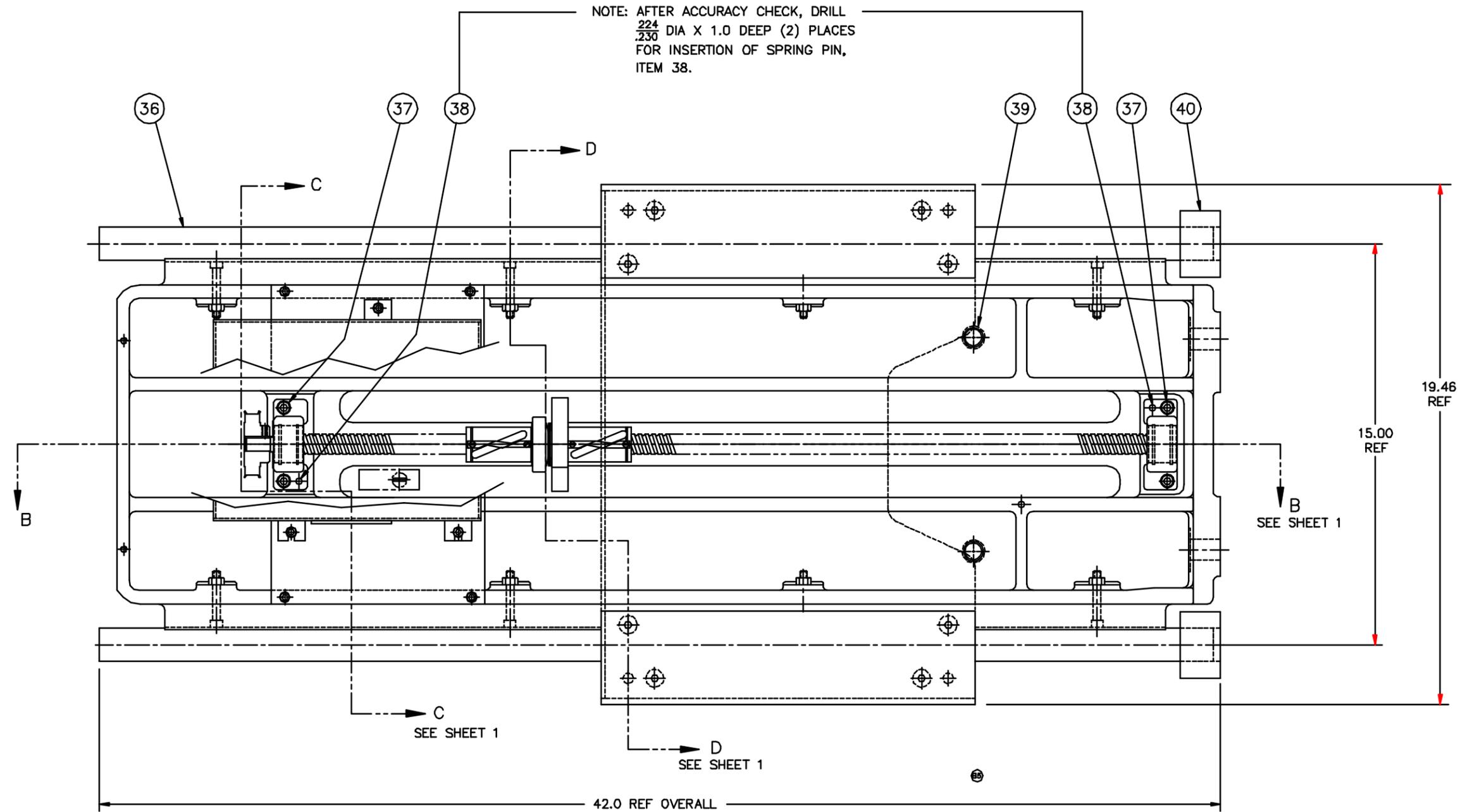
HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.

DESCRIPTION: ASSEMBLY, S6 BACKGAUGE

DRAWN: J.L.W. DATE: 3-13-96 CHECKED: R.J.H. DATE: 3-25-96 APPROVED: J.L.W. DATE: 3-25-96

SHIT: 1 OF 2 REV. D

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VIEW A-A  
 SEE SHEET 2  
 SCALE 1:2

REV.	DATE	BY	CHKD	DATE	DATE	DF
A	13856	REL				

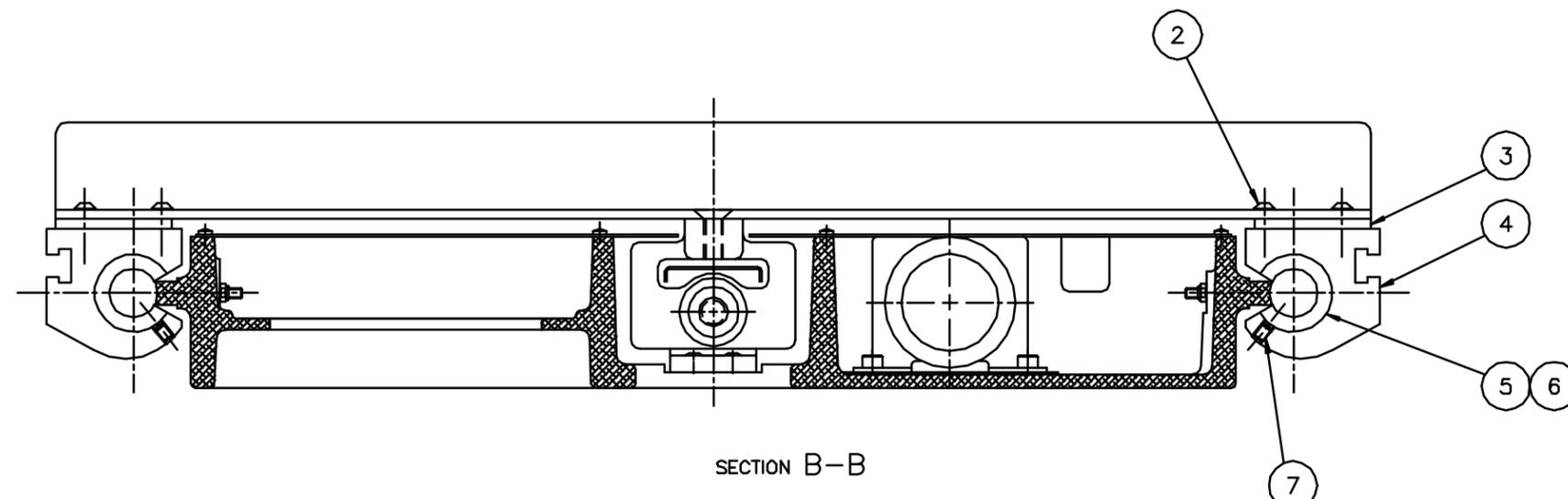
SURFACE TREATMENT  
 ~  
 HEAT TREATMENT  
 ~  
 FIRST USED ON  
 S6

EXCEPT AS NOTED: ALL DIMENSIONS MUST BE AS FOLLOWS  
 INSIDE: .050" X 45° OR .05" R MAX  
 OUTSIDE: .030" X 45° OR .05" R

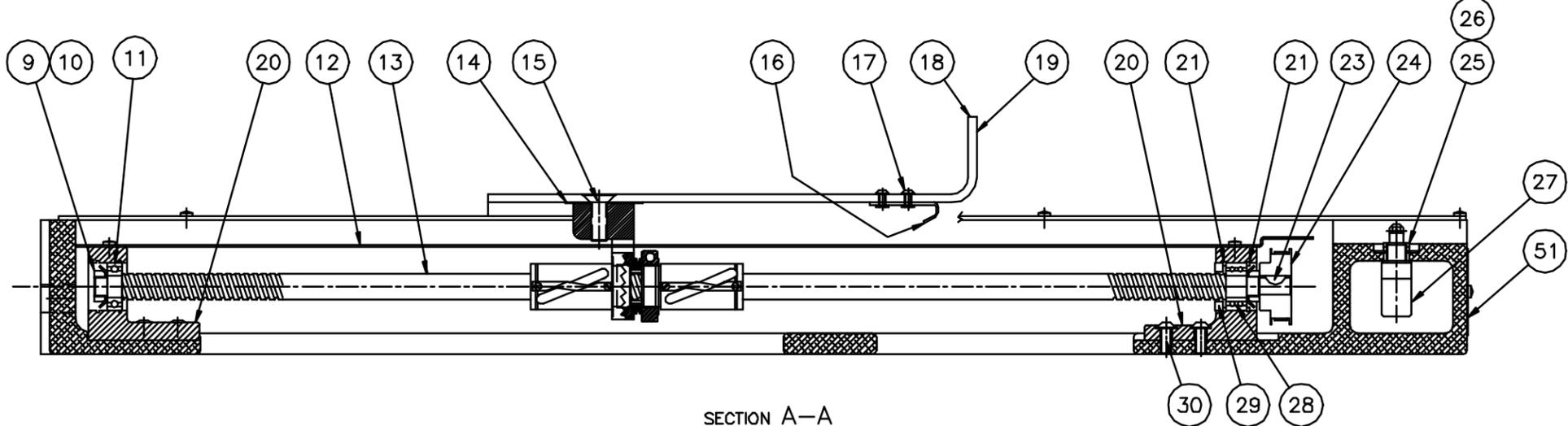
EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE  
 DECIMAL  
 .0 ±.0300  
 .00 ±.0150  
 .000 ±.0050  
 .0000 ±.0025  
 ANGULAR ± 0°30'

HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.	
DESCRIPTION ASSEMBLY, S6 BACKGAUGE	
DRAWN J.L.W.	DATE 3-13-96
CHECKED R.J.H.	DATE 3-25-96
APPROVED J.L.W.	DATE 3-25-96
SCALE 1:2	SIZE D
UNIT OF MEAS. EA	DRAWING 001-2003-009
SHY. 2 OF 2	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.



SECTION B-B



SECTION A-A

- 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 (P/N 334-0001-005) TO BE USED TO ASSEMBLE ITEM 29.

- NOT SHOWN ON ASSEMBLY (A) REF 416-0248-054 ENCODER, 254 LINE DIFF. 56
- (F) 6.7# 712-0001-002 B CHEMICAL, 150# CYL. INSTA-FOAM 55
- (F) 7.5# 712-0001-001 A CHEMICAL, 150# CYL. INSTA-FOAM 54
- (07) 2 801-2008-001 BUMPER, GAUGE RUBBER 53
- (07) 1 757-4002-032 ENG. DOC., AB7 CHECKOUT PROCEDURE 52
- (07) 1 703-1001-080 NAMEPLATE, AUTOBEND 51
- (06) (C) 1 801-2000-001 PLATE, AB7 AXIS IF MOUNT S7 49
- 1 208-0002-006 SPROCKET, 18XL037 1/2" DIA BORE 48
- 4 101-0003-004 SHCS, #8-32 X 5/8 LG 47
- 1 801-0641-001 BRACKET, MOTOR MOUNTING 46
- (05) 1 703-1001-129 LABEL, INFO & WARNING 45
- 1 111-0241-001 RIVET, AD-32 SCOVIL 44
- (E4) 1 001-1430-001 ASSY, SHIPPING BOX 42
- (04) 2 112-5024-004 SPRING PIN, 6 DIA X 20 LG 40
- (03) 2 801-0646-001 COVER, RIGHT GAUGE 39
- 4 112-5026-002 SPRING PIN, 10 DIA X 24 LG 38
- 1 001-2009-003 M.T.E. S7 - AB7 37
- 2 101-5010-004 SHCS, M8 X 1.25 P X 18 LG. 36
- 8 117-0100-007 LOCKNUT, M6 DIN 985 35
- 2 901-0080-001 ROD, S7 GUIDE 34
- 1 801-0647-002 FRAME, S7 MAIN 33
- (02) 1 204-0002-006 GEARBELT, 180XL037 32
- 24 123-0001-008 SCREW, #10 X 1/2 TYPE B, PH TAP 31
- 4 108-5005-004 BHCS, M8 X 1.25 P X 20 LG. 30
- 1 801-0746-001 RING, STOP BUMPER 29
- 1 211-0035-003 BEARING, DBL ROW BALL MRC 5202SBKZZ 28
- 1 404-5202-010 SWITCH, PNL. MTG. CROSS ROLL/PLUNGER 27
- 1 605-5001-009 WASHER, BELLEVILLE #B1250-89 26
- 1 110-0062-009 LOCKWASHER, 9/16" INTERNAL 25
- 1 208-0002-039 PULLEY, GEARBELT #36XL037 24
- (E3) 1 609-0001-010 KEY, WOODRUFF, #4 3/32 X 5/8 23
- (E2) 2 113-0008-025 RETAINING RING, BOW 1.375 X 1.526 21
- 2 801-0645-001 BRACKET, DRIVE BEARING 20
- 2.83' 703-0003-009 TAPE, BLACK/YELLOW STRIPED WARNING 19
- 1 801-0735-004 SADDLE, S7 18
- 2 108-5003-004 BHSCS, M5 X 0.8 P X 12 LG. 17
- 1 801-0912-001 SWITCH ACTUATOR 16
- (01) 1 102-5007-003 FHSCS, M12 X 1.75 P X 30 LG. 15
- 1 801-0813-XXX SHIM STOCK, S7 (SEE NOTE 1) 14
- 1 001-1525-002 ASSY, S7 BALL NUT/PRELOAD 13
- 1 801-0636-001 COVER, BALL SCREW 12
- 1 211-0009-025 BEARING, BALL #6202-2RS 11
- 2 211-0088-001 LOCKWASHER, BEARING #AFBM W-02 10
- (E1) 2 211-0087-001 LOCKNUT, BEARING #AFBMA N-02 9
- 4 103-5165-021 SHSS, M8 X 1.25 P X 10 LG. CONE PT. 7
- 4 608-0005-005 SEAL, BALL BUSHING, OP STD 1.25 DIA. 6
- 4 211-5002-008 BUSHING, BALL (SUPER 20 OPN) 5
- 2 801-0703-001 BEARING BLOCK 4
- 2 801-0735-005 PAD, SADDLE S7 3
- 8 108-5006-003 BHCS, M10 X 1.5 P X 25 LG. 2
- (B) 1 423-0204-001 HARNESS, S7 GAUGE INTERNAL, AB7 1

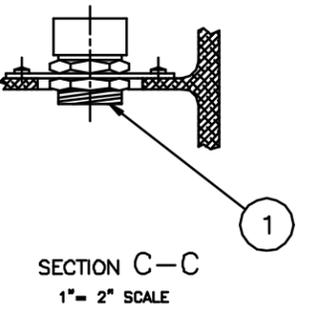
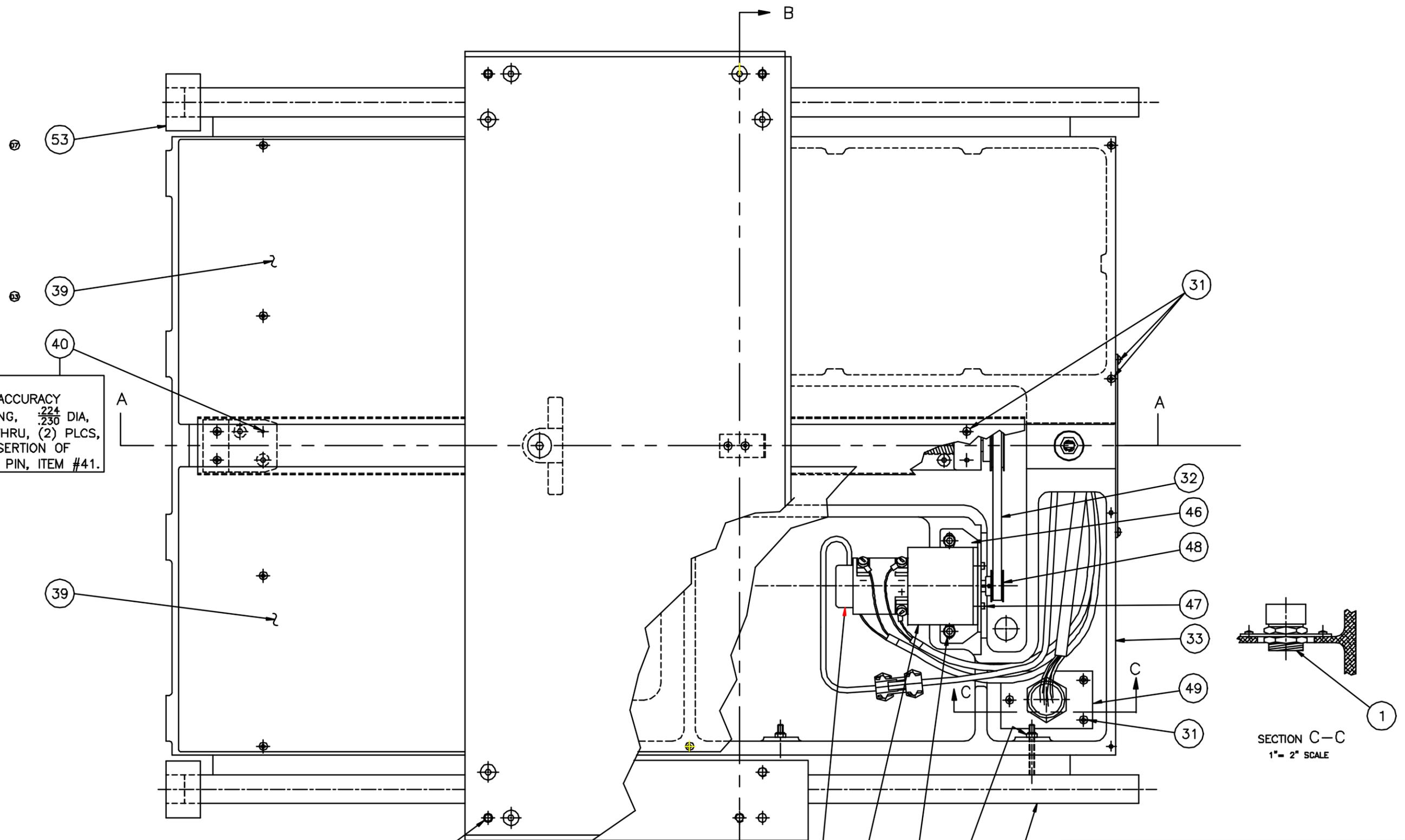
SEE NOTE #2

REV	DATE	BY	DESCRIPTION
G	13612		ADDED ITEM 56
F	13438		ADDED ITEMS 54 & 55
E	13341		(1) ITEM #42 WAS 2 RECD (2) WAS 428-7891-001; (3) WAS 1 RECD; (4) WAS 113-0001-013;
D	12841		(5) WAS 808-3044-011; (6) WAS 801-2002-002; (7) ADDED ITEMS 51, 52, & 53 (8) WAS 102-5007-004; (9) WAS 28 POS; (10) WAS 1 PC; (11) WAS 801-0842-002;
C	12796		ADD ITEM #50
B	12543		ADDED ITEM 1

SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
~		DECIMAL .00 .01 .02 .03 .04 .05 .06 .07 .08 .09 .10 .15 .20 .25 .30 .35 .40 .45 .50 .55 .60 .65 .70 .75 .80 .85 .90 .95 1.00 1.50 2.00 3.00 4.00 5.00 6.00 8.00 10.00		DESCRIPTION	
~		HEAT TREATMENT		ASSEMBLY, S7 GAUGE	
~		FIRST USED ON		DRAWN DATE 1-27-93 CHECKED J.L.W. DATE 1-27-93 APPROVED J.L.W. DATE 2-25-93	
AB7/S7		THIRD ANGLE PROJECTION		SCALE 1=2	
		UNIT OF MEAS. EA.		D 001-2003-002	

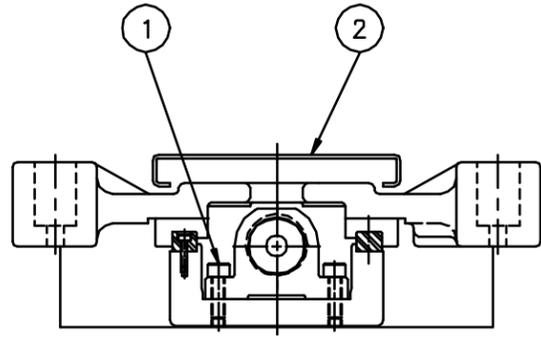
NOTE:  
 AFTER ACCURACY CHECKING,  $\frac{.224}{.230}$  DIA, DRILL THRU, (2) PLCS, FOR INSERTION OF SPRING PIN, ITEM #41.

NOTE:  
 AFTER ACCURACY CHECK, DRILL  $.397$  DIA X  $1.0$  DEEP, (4) PLACES, FOR SPRING PIN, ITEM #39.

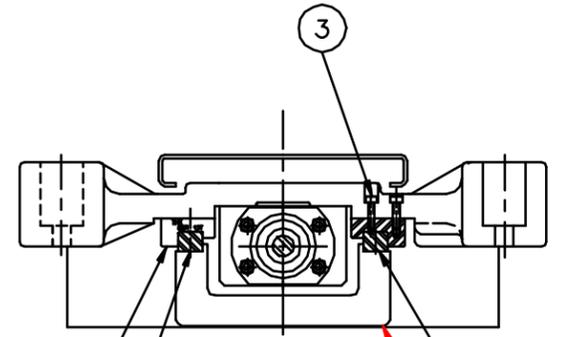


QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE	
HEAT TREATMENT		DECIMAL	
FIRST USED ON		DESCRIPTION	
THIRD ANGLE PROJECTION		SCALE	
UNIT OF MEAS.		DRAWING	
EA.		D	
D		001-2003-002	
2		2	
2		2	

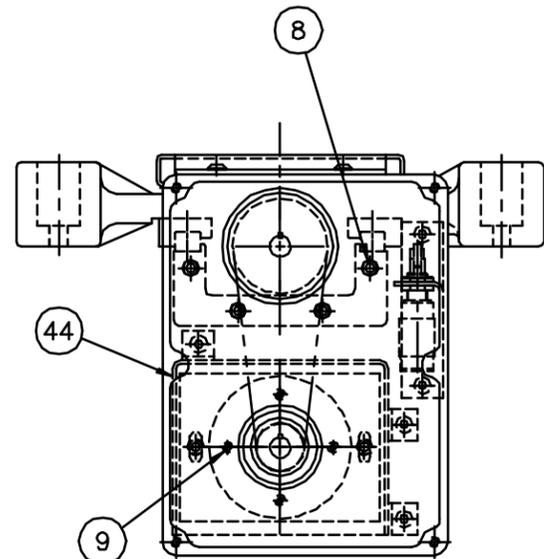
PROPRIETARY INFORMATION  
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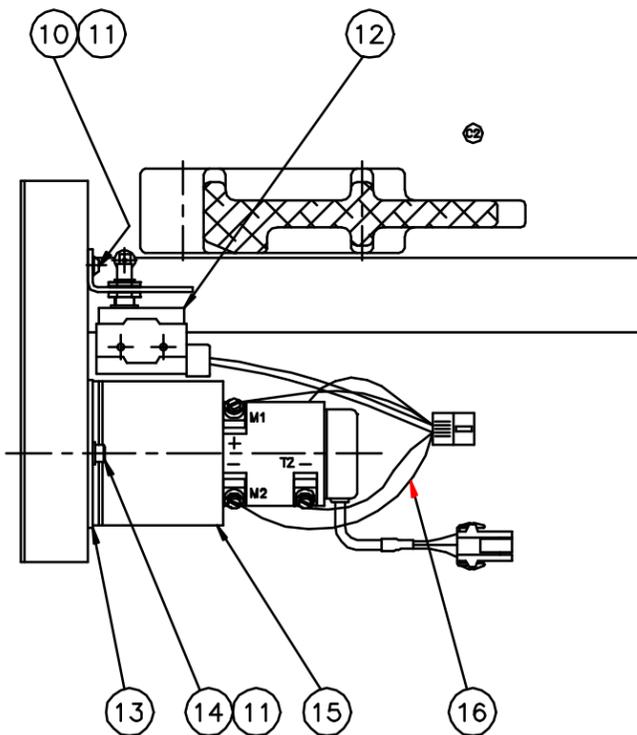
SECTION B-B  
(SEE SHEET 2)



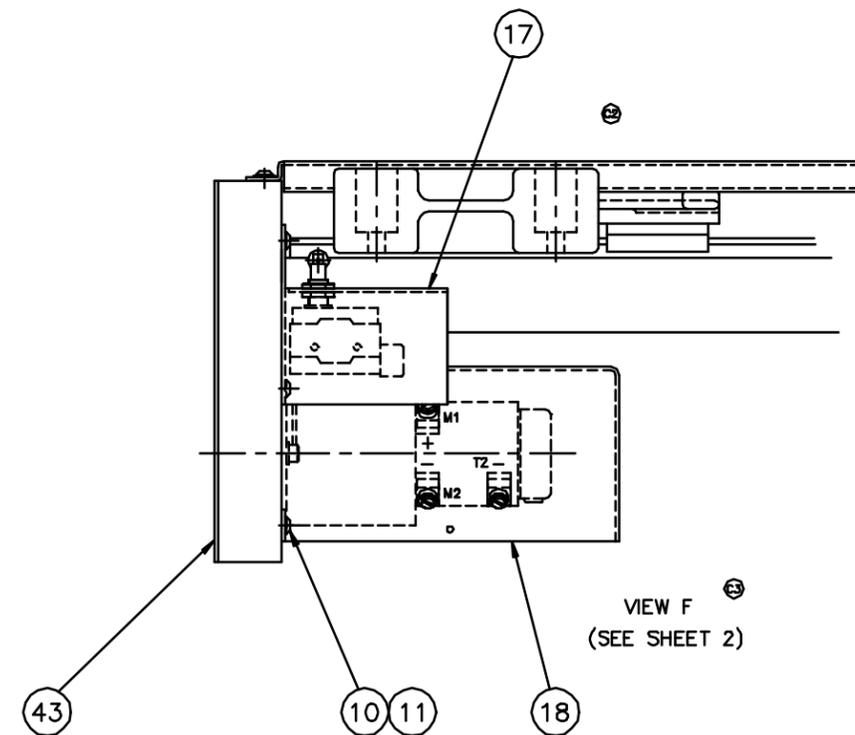
SECTION C-C  
(SEE SHEET 2)



VIEW D  
SEE SHEET 2  
(SHOWN WITH COVER REMOVED)



SECTION E  
SEE SHEET 2  
(SHOWN WITH COVERS REMOVED)

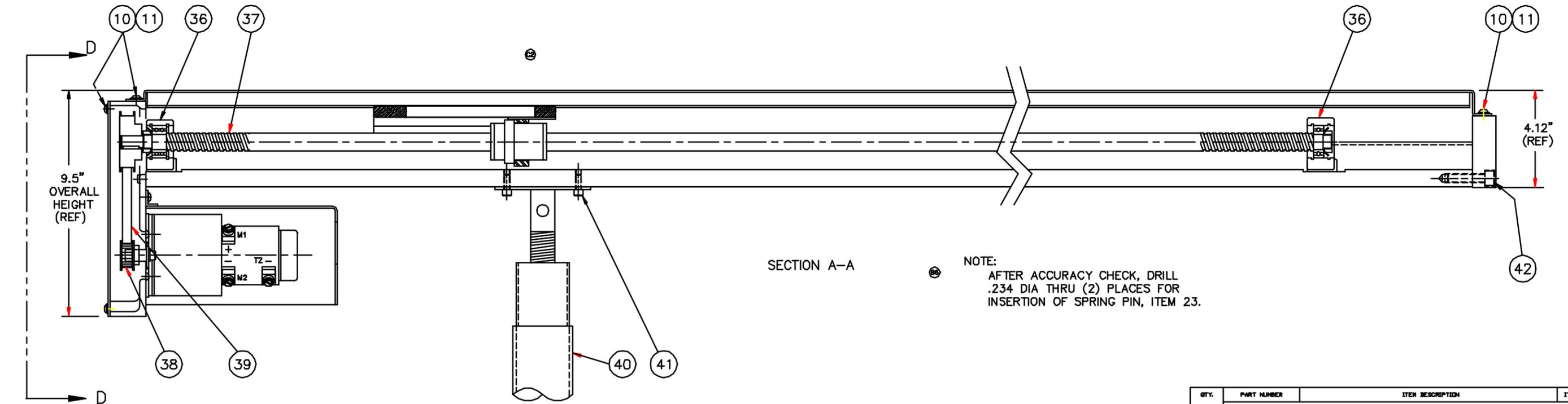
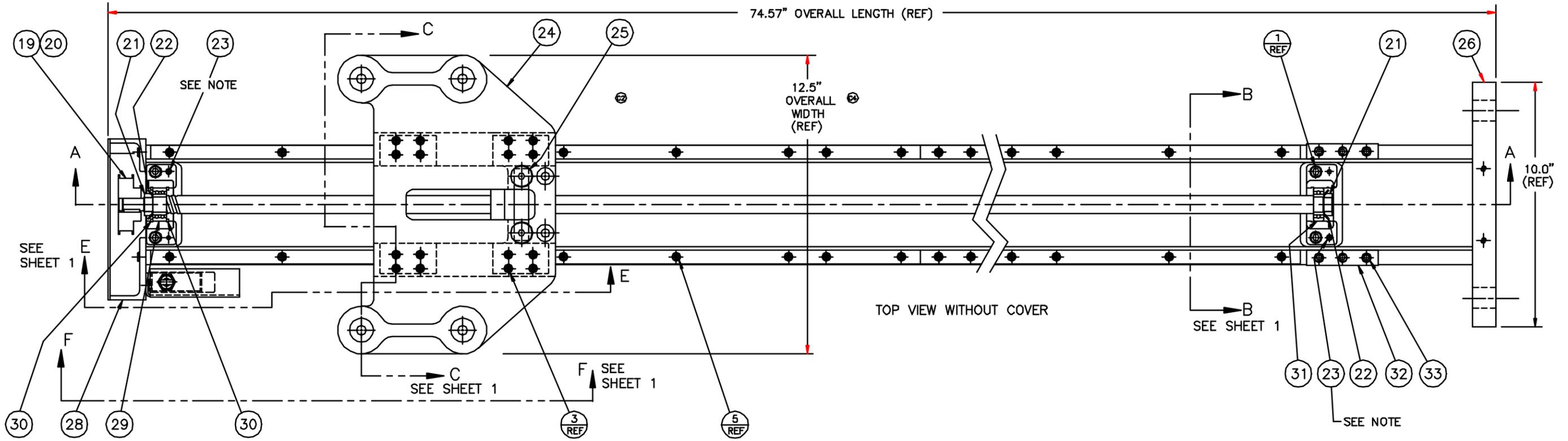


VIEW F  
(SEE SHEET 2)

NOT SHOWN ON ASSEMBLY

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
			47
			46
1	001-2024-002	ASSY, LP11-54 FASTENER	45
1	703-1005-409	LABEL, LINEAR RAIL LUBRICATION	44
1	801-2014-004	COVER, END HOUSING	43
4	101-5010-008	SHCS, M10 X 30 LG.	42
2	101-5010-003	SHCS, M8 X 16 LG.	41
1	901-0022-004	ASSEMBLY, ADJUSTABLE LEG	40
1	204-0002-003	BELT, TIMING 150XL037	39
1	208-0002-006	SPROCKET, 18XL037	38
1	001-1525-004	ASSEMBLY, LP11-54 BALL SCREW	37
2	801-2012-001	SUPPORT, BEARING	36
			35
			34
6	101-5008-008	SHCS, M6 X 25 LG.	33
2	801-2014-005	BLOCK, GAUGE STOP	32
1	211-0009-025	BEARING, SINGLE ROW BALL	31
2	113-0008-025	RETAINING RING, BOW 1.375 X 1.526	30
1	211-0035-003	BEARING, DOUBLE ROW	29
1	801-2011-001	HOUSING, REAR END	28
			27
1	801-2010-001	PLATE, FRONT MOUNTING	26
2	102-5006-006	FHCS, M10 X 25 LG.	25
1	801-2009-002	CARRIAGE, BACKGAUGE	24
2	112-5024-006	SPRING PIN, M6 X 30 LG.	23
2	211-0088-001	LOCKWASHER, BEARING	22
2	211-0087-001	LOCKNUT, BEARING	21
1	801-0805-003	KEY, SQUARE 3/32 X 3/32 X 1 LG.	20
1	208-0002-039	PULLEY, GEARBELT, 36XL037	19
1	801-2014-003	COVER, MTE	18
1	801-2013-002	BRACKET, LIMIT SWITCH	17
1	423-0204-001	HARNNESS, AB7 INTERNAL GAUGE	16
1	001-2009-003	ASSY, MTE	15
2	101-5008-004	SHCS, M6 X 16 LG.	14
1	801-2010-002	PLATE, MTE MOUNTING	13
1	404-5202-012	LIMIT SWITCH	12
15	110-5001-004	FLAT WASHER, M6	11
13	108-5004-002	BHCS, M6 X 12 LG.	10
4	102-0003-001	FHCS, #8 - 32 X 3/8 LG.	9
4	108-5004-006	BHCS, M6 X 20 LG.	8
4	211-1100-023	RAIL, LINEAR - G15+B20L	7
1	801-2015-002	FRAME, 54" MAIN	6
32	101-5021-005	SHCS, M4 X 12 LG.	5
4	211-1100-024	BEARING, LINEAR - GSR15	4
16	101-5021-006	SHCS, M4 X 16 LG.	3
1	801-2014-002	COVER, 54" GAUGE	2
4	101-5010-007	SHCS, M8 X 25 LG.	1

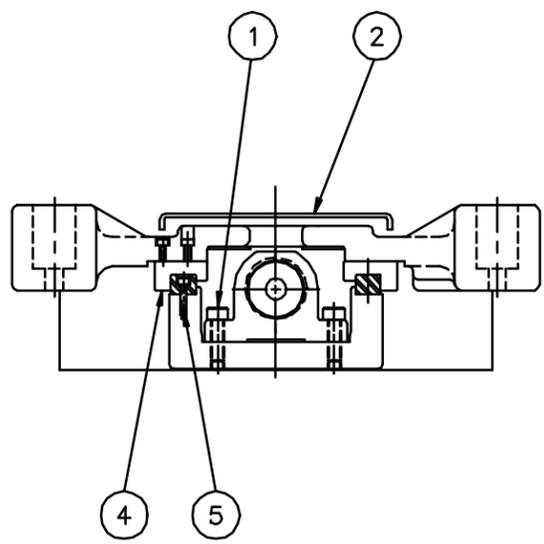
SURFACE TREATMENT 		EXCEPT AS NOTED - ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0000 ±.0010 .0000 ±.0020 .0000 ±.0050 .0000 ±.0100 .0000 ±.0150 .0000 ±.0200 .0000 ±.0300 .0000 ±.0400 .0000 ±.0500 .0000 ±.0600 .0000 ±.0700 .0000 ±.0800 .0000 ±.0900 .0000 ±.1000 .0000 ±.1200 .0000 ±.1500 .0000 ±.2000 .0000 ±.2500 .0000 ±.3000 .0000 ±.3750 .0000 ±.4500 .0000 ±.5625 .0000 ±.7000 .0000 ±.8750 .0000 ±.1.1250 .0000 ±.1.5000 .0000 ±.1.8750 .0000 ±.2.3750 .0000 ±.3.0000 .0000 ±.3.7500 .0000 ±.4.5000 .0000 ±.5.6250 .0000 ±.7.0000 .0000 ±.8.7500 .0000 ±.11.2500 .0000 ±.15.0000 .0000 ±.18.7500 .0000 ±.23.7500 .0000 ±.30.0000 .0000 ±.37.5000 .0000 ±.45.0000 .0000 ±.56.2500 .0000 ±.70.0000 .0000 ±.87.5000 .0000 ±.112.5000 .0000 ±.150.0000 .0000 ±.187.5000 .0000 ±.237.5000 .0000 ±.300.0000 .0000 ±.375.0000 .0000 ±.450.0000 .0000 ±.562.5000 .0000 ±.700.0000 .0000 ±.875.0000 .0000 ±.1125.0000 .0000 ±.1500.0000 .0000 ±.1875.0000 .0000 ±.2375.0000 .0000 ±.3000.0000 .0000 ±.3750.0000 .0000 ±.4500.0000 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.0000 ±.1125000000000000000000000000.0000 .0000 ±.1500000000000000000000000000.0000 .0000 ±.1875000000000000000000000000.0000 .0000 ±.2375000000000000000000000000.0000 .0000 ±.3000000000000000000000000000.0000 .0000 ±.3750000000000000000000000000.0000 .0000 ±.4500000000000000000000000000.0000 .0000 ±.5625000000000000000000000000.0000 .0000 ±.7000000000000000000000000000.0000 .0000 ±.8750000000000000000000000000.0000 .0000 ±.11250000000000000000000000000.0000 .0000 ±.15000000000000000000000000000.0000 .0000 ±.18750000000000000000000000000.0000 .0000 ±.23750000000000000000000000000.0000 .0000 ±.30000000000000000000000000000.0000 .0000 ±.37500000000000000000000000000.0000 .0000 ±	
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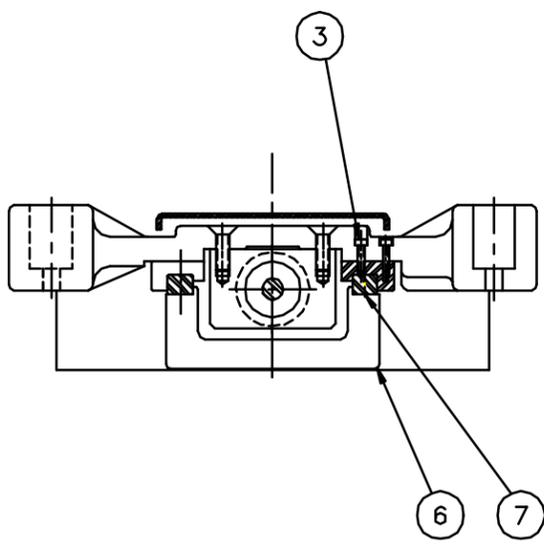
NOTE:  
 AFTER ACCURACY CHECK, DRILL  
 .234 DIA THRU (2) PLACES FOR  
 INSERTION OF SPRING PIN, ITEM 23.

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.			
DESCRIPTION			
ASSEMBLY, LP11-54 BACKGAUGE			
DRAWN J.L.V.		DATE 8-3-94	CHECKED R.J.H.
DATE 8-15-94		APPROVED J.L.V.	DATE 9-14-94
SCALE 1/2		SIZE D	DRAWING 001-2010-004
UNIT OF MEAS EA		SH. 2 OF 2	REV. E

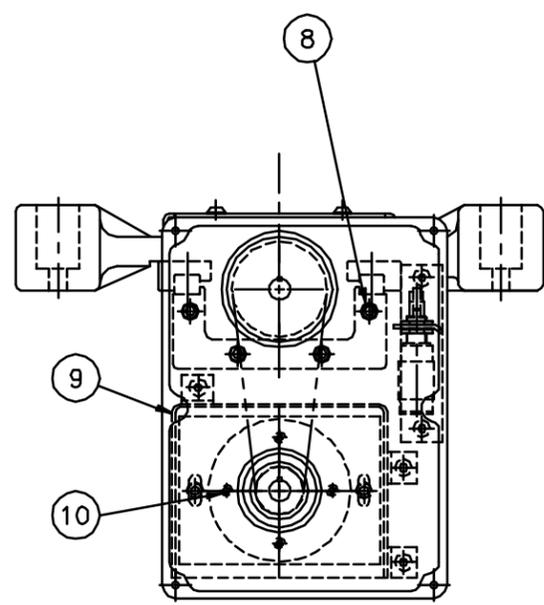
CN AB573-2



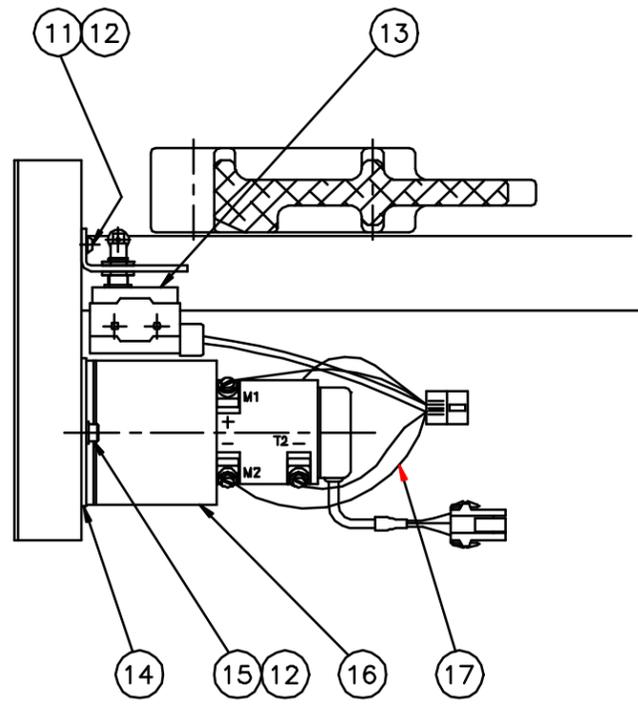
SECTION B-B  
(SEE SHEET 2)



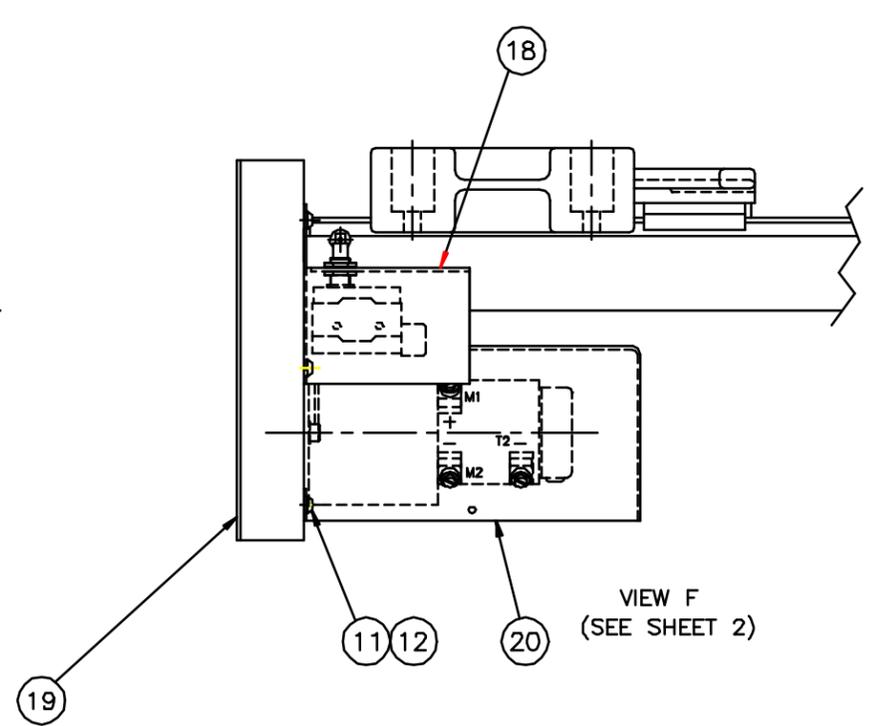
SECTION C-C  
(SEE SHEET 2)



VIEW D  
SEE SHEET 2  
(SHOWN WITH COVER REMOVED)



SECTION E  
SEE SHEET 2  
(SHOWN WITH COVERS REMOVED)



VIEW F  
(SEE SHEET 2)

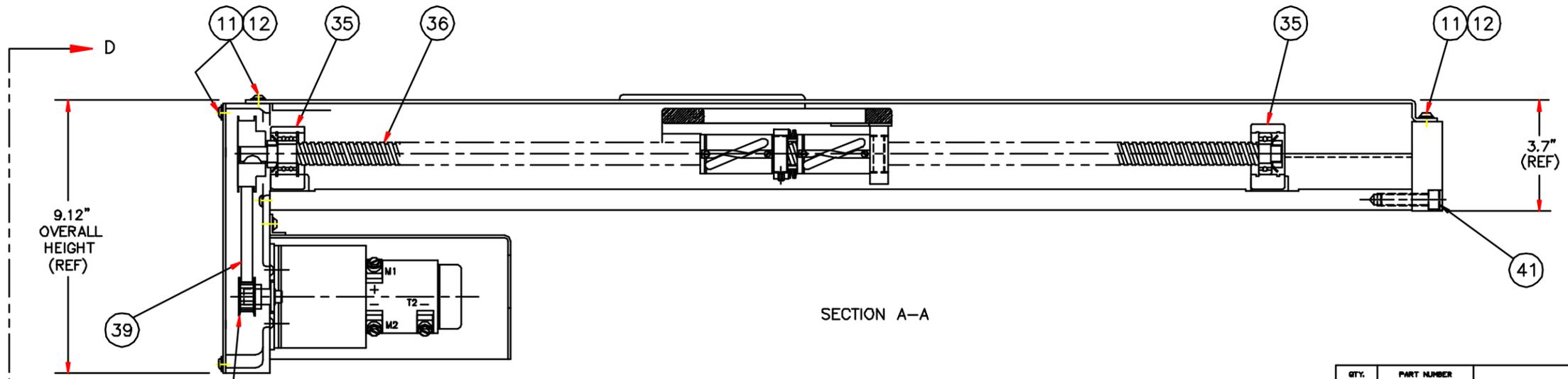
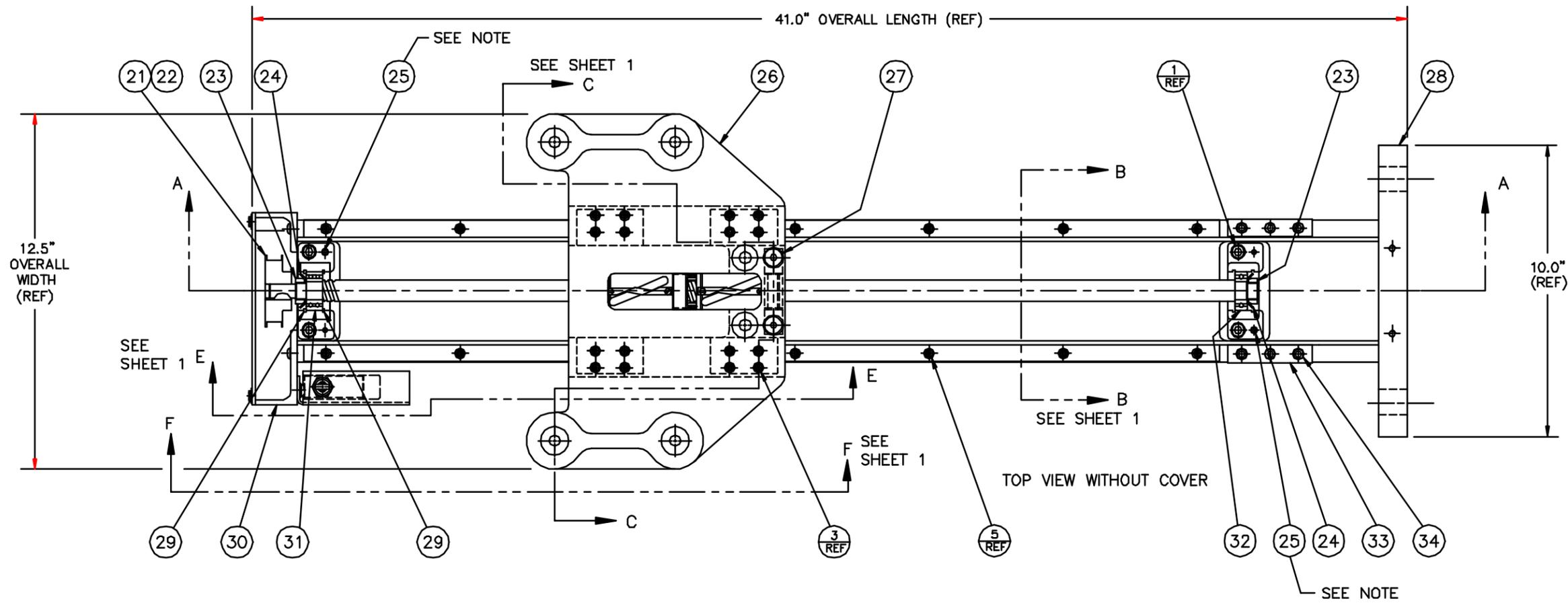
NOT SHOWN ON ASSEMBLY

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
			44
			43
1	001-2024-001	ASSY, LP11 FASTENER	42
4	101-5011-008	SHCS, M10 X 30 LG.	41
1	208-0002-006	SPROCKET, 18XL037	40
1	204-0002-003	BELT, TIMING 150XL037	39
			38
			37
1	001-1525-005	ASSEMBLY, LP11 BALL SCREW	36
2	801-2012-001	SUPPORT, BEARING	35
8	101-5008-008	SHCS, M6 X 25 LG.	34
2	801-2014-005	BLOCK, GAUGE STOP	33
1	211-0009-025	BEARING, SINGLE ROW BALL	32
1	211-0035-003	BEARING, DOUBLE ROW	31
1	801-2011-001	HOUSING, REAR END	30
2	113-0008-025	RETAINING RING, BOW 1.375 X 1.526	29
1	801-2010-001	PLATE, FRONT MOUNTING	28
2	102-5005-009	FHCS, M8 X 25 LG.	27
1	801-2009-002	CARRIAGE, BACKGAUGE	26
2	112-5024-006	SPRING PIN, M6 X 30 LG.	25
2	211-0088-001	LOCKWASHER, BEARING	24
2	211-0087-001	LOCKNUT, BEARING	23
1	609-0001-010	KEY, WOODRUFF, #4 3/32 X 5/8	22
1	208-0002-039	PULLEY, GEARBELT, 36XL037	21
1	801-2014-003	COVER, MTE	20
1	801-2014-004	COVER, END HOUSING	19
1	801-2013-002	BRACKET, LIMIT SWITCH	18
1	423-0204-001	HARNESS, AB7 INTERNAL GAUGE	17
1	001-2009-003	ASSY, MTE	16
2	101-5008-004	SHCS, M6 X 16 LG.	15
1	801-2010-002	PLATE, MTE MOUNTING	14
1	404-5202-012	LIMIT SWITCH	13
15	110-5001-004	FLAT WASHER, M6	12
13	108-5004-002	BHCS, M6 X 12 LG.	11
4	102-0003-001	FHCS, #8 - 32 X 3/8 LG.	10
1	703-1005-409	LABEL, LINEAR RAIL LUBRICATION	9
4	108-5004-006	BHCS, M6 X 20 LG.	8
2	211-1100-023	RAIL, LINEAR - G15+B20L	7
1	801-2015-003	FRAME, 24" MAIN	6
16	101-5021-005	SHCS, M4 X 12 LG.	5
4	211-1100-024	BEARING, LINEAR - GSR15	4
16	101-5021-006	SHCS, M4 X 16 LG.	3
1	801-2014-007	COVER, 24" GAUGE	2
4	101-5010-007	SHCS, M8 X 25 LG.	1

REV	DATE	DESCRIPTION	BY	CHKD	DATE	APPROV	DATE
C	14119	(3) WAS 117-0100-006 QTY 4 (1) WAS 703-1001-083 QTY 1 (2) WAS 108-5003-003 QTY 4	J.A.	R.H.	10-24-97	J.L.W.	10-24-97
B	13533	(1) WAS 111-0241-009; (2) ITEMS 43 & 44 ADDED	J.W.	R.H.	10-24-97	J.L.W.	10-24-97
A	13384	REL					

SURFACE TREATMENT		EXCEPT AS NOTED - ALL DIMENSIONS MUST BE AS FOLLOWS	EXCEPT AS NOTED - ALL DIMENSIONS MUST BE AS FOLLOWS	HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.	
~	HEAT TREATMENT	INSIDE: .000" X 45° DR .05" R MAX	DECIMAL ±.0300 .00 ±.0150 .000 ±.0050 ANGULAR ± .030°	DESCRIPTION ASSEMBLY, LP11 BACKGAUGE	
~	FIRST USED IN	OUTSIDE: .030" X 45° DR .05" R	THIRD ANGLE PROJECTION	SCALE 1/2	DATE 4-10-95
	LP11			SIZE D	DATE 4-12-95
				UNIT OF MEAS EA	DATE 5-1-95

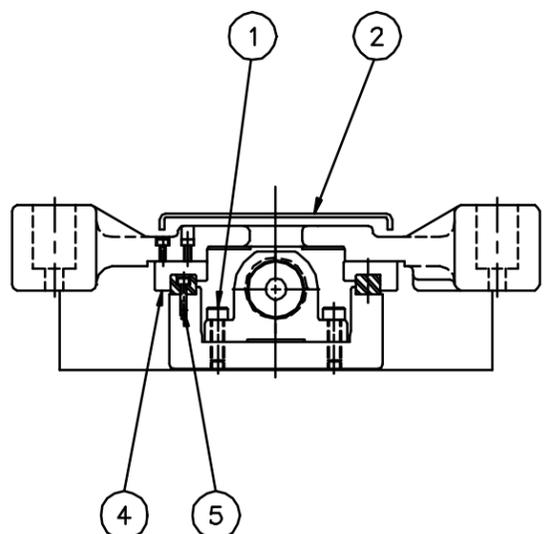


NOTE:  
 AFTER ACCURACY CHECK, DRILL  
 .234 DIA THRU (2) PLACES FOR  
 INSERTION OF SPRING PIN. ITEM 25.

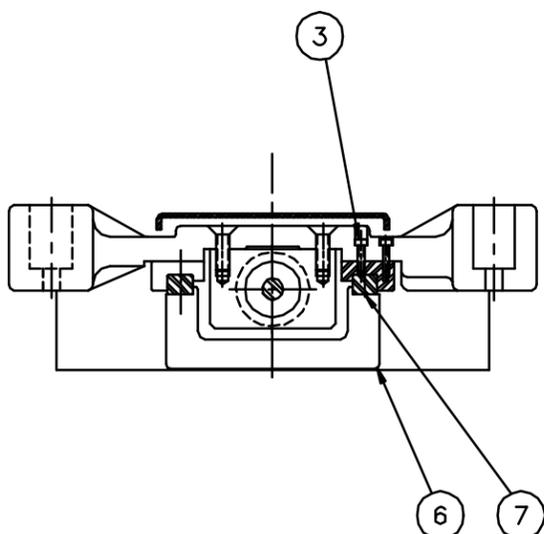
REV	NO.	DESCRIPTION	DATE	BY	CHKD	DATE	BY
A	13384	REL					

SURFACE TREATMENT	EXCEPT AS NOTED ALL CORNERS MUST BE AS FOLLOWS	EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE
HEAT TREATMENT	INSIDE: .050" X 45° DR .05" R MAX OUTSIDE: .050" X 45° DR .05" R	DECIMAL ±.0300 .00 ±.0150 .000 ±.0050 ANGULAR ± .030"
FIRST USED IN	EXCEPT AS NOTED WELDING TOLERANCES MUST BE AS FOLLOWS ±.12	THIRD ANGLE PROJECTION
LP11		

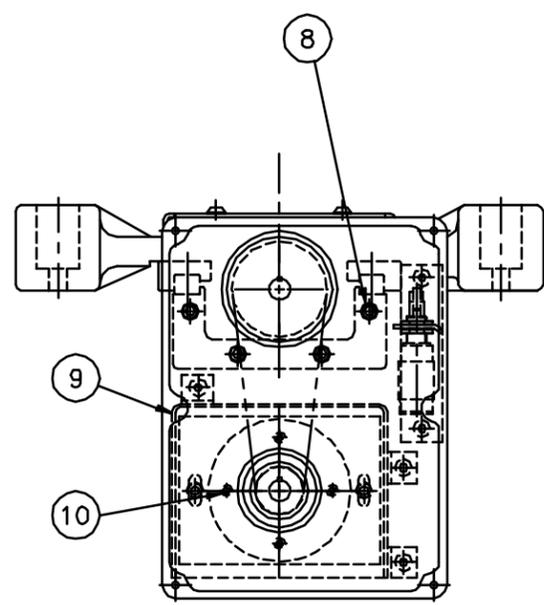
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.			
DESCRIPTION			
ASSEMBLY, LP11 BACKGAUGE			
DRAWN	DATE	CHECKED	DATE
J.L.W.	4-11-95	R.J.H.	4-12-95
APPROVED	DATE	DATE	DATE
J.L.W.	5-1-95		
SCALE	SIZE	DRAWING	SH. REV.
1/2	D	001-2010-005	2 OF 2 C
UNIT OF MEAS			
EA			



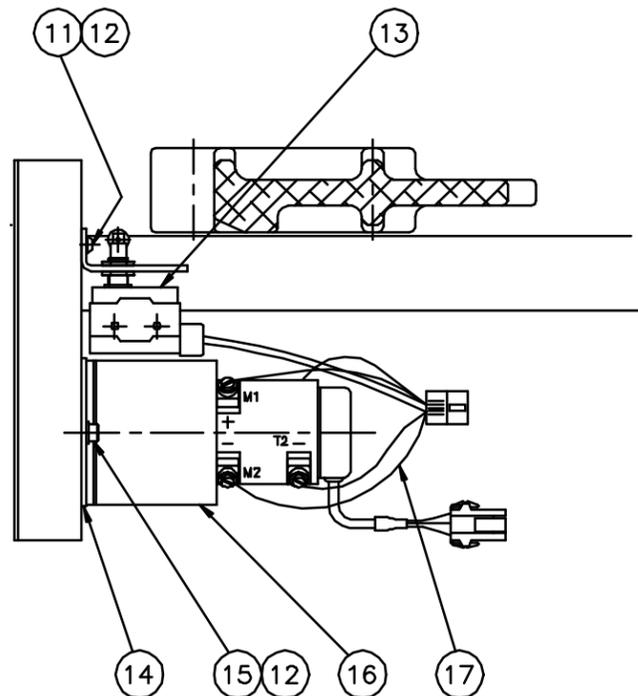
SECTION B-B  
(SEE SHEET 2)



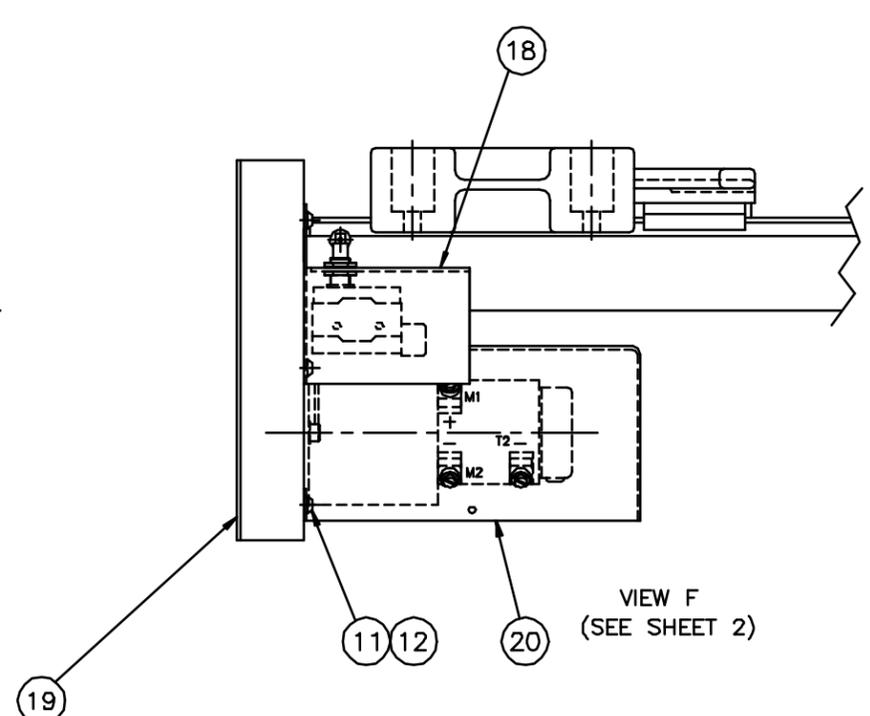
SECTION C-C  
(SEE SHEET 2)



VIEW D  
SEE SHEET 2  
(SHOWN WITH COVER REMOVED)



SECTION E  
SEE SHEET 2  
(SHOWN WITH COVERS REMOVED)

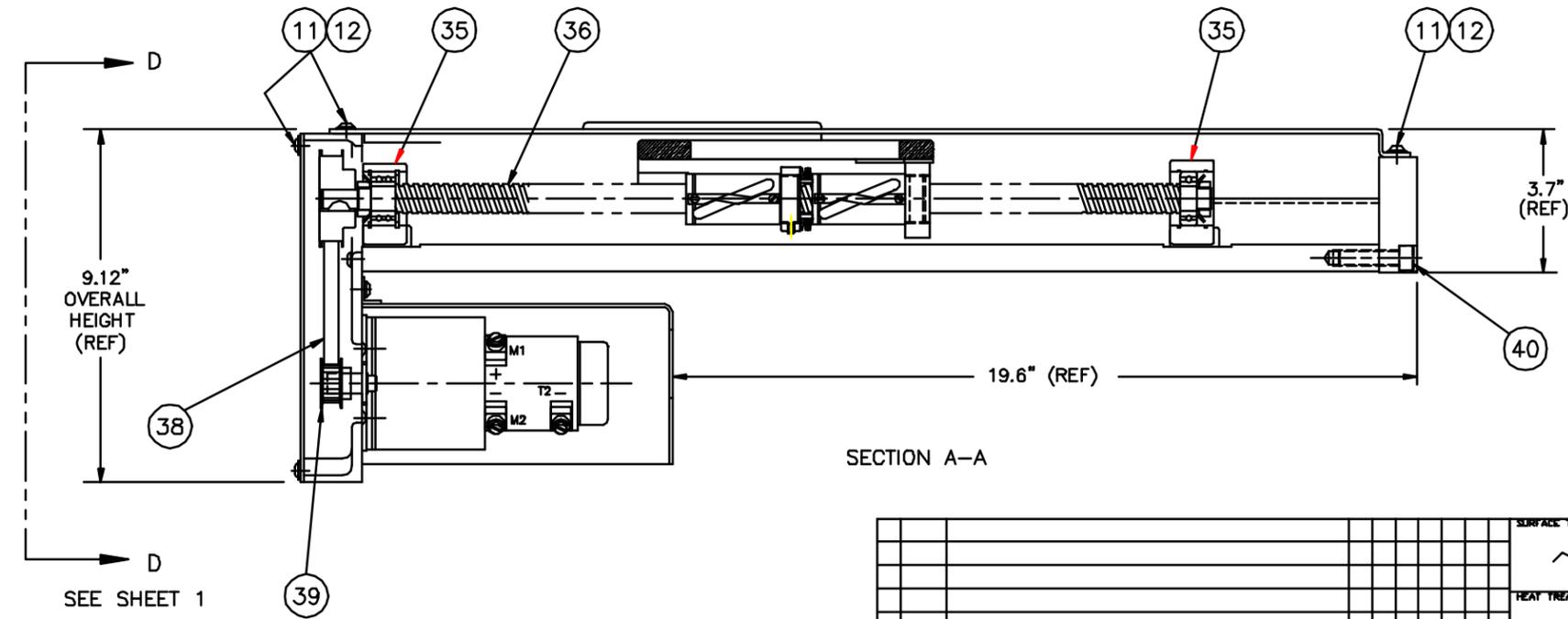
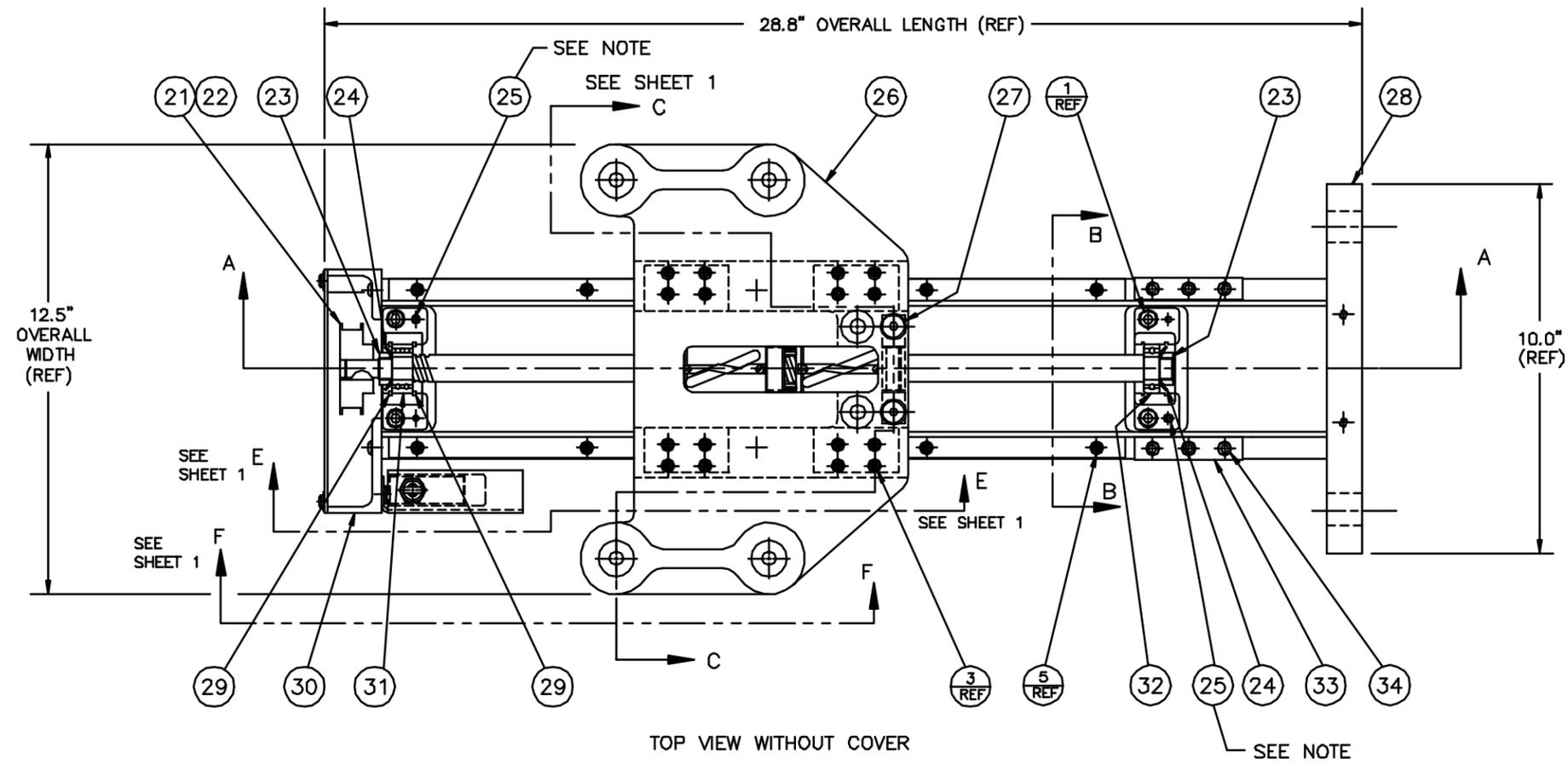


VIEW F  
(SEE SHEET 2)

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
			42
			41
4	101-5011-008	SHCS, M10 X 30 LG.	40
1	208-0002-006	SPROCKET, 18XL037	39
1	204-0002-003	BELT, TIMING 150XL037	38
			37
1	001-1525-007	ASSEMBLY, LP11-12 BALL SCREW	36
2	801-2012-001	SUPPORT, BEARING	35
8	101-5008-008	SHCS, M6 X 25 LG.	34
2	801-2014-005	BLOCK, GAUGE STOP	33
1	211-0009-025	BEARING, SINGLE ROW BALL	32
1	211-0035-003	BEARING, DOUBLE ROW	31
1	801-2011-001	HOUSING, REAR END	30
2	113-0008-025	RETAINING RING, BOW 1.375 X 1.526	29
1	801-2010-001	PLATE, FRONT MOUNTING	28
2	102-5005-009	FHCS, M8 X 25 LG.	27
1	801-2009-002	CARRIAGE, BACKGAUGE	26
2	112-5024-006	SPRING PIN, M6 X 30 LG.	25
2	211-0088-001	LOCKWASHER, BEARING	24
2	211-0087-001	LOCKNUT, BEARING	23
1	609-0001-010	KEY, WOODRUFF, #4 3/32 X 5/8	22
1	208-0002-039	PULLEY, GEARBELT, 36XL037	21
1	801-2014-003	COVER, MTE	20
1	801-2014-004	COVER, END HOUSING	19
1	801-2013-002	BRACKET, LIMIT SWITCH	18
1	423-0204-001	HARNESS, AB7 INTERNAL GAUGE	17
1	001-2009-003	ASSY, MTE	16
2	101-5008-004	SHCS, M6 X 16 LG.	15
1	801-2010-002	PLATE, MTE MOUNTING	14
1	404-5202-012	LIMIT SWITCH	13
15	110-5001-004	FLAT WASHER, M6	12
13	108-5004-002	BHCS, M6 X 12 LG.	11
4	102-0003-001	FHCS, #8 - 32 X 3/8 LG.	10
1	703-1005-409	LABEL, LINEAR RAIL LUBRICATION	9
4	108-5004-006	BHCS, M6 X 20 LG.	8
2	211-1100-032	RAIL, LINEAR - G15+530L	7
1	801-2015-004	FRAME, LP11-12 MAIN	6
10	101-5021-005	SHCS, M4 X 12 LG.	5
4	211-1100-024	BEARING, LINEAR - GSR15	4
16	101-5021-006	SHCS, M4 X 16 LG.	3
1	801-2014-010	COVER, LP11-12 GAUGE	2
4	101-5010-007	SHCS, M8 X 25 LG.	1

SURFACE TREATMENT		EXCEPT AS NOTED - ALL DIMENSIONS IN INCHES TOLERANCE		HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT		EXCEPT AS NOTED - ALL DIMENSIONS IN INCHES TOLERANCE		DESCRIPTION	
FIRST USED IN		EXCEPT AS NOTED - ALL DIMENSIONS IN INCHES TOLERANCE		ASSEMBLY, LP11-12 BACKGAUGE	
REV. 14119		EXCEPT AS NOTED - ALL DIMENSIONS IN INCHES TOLERANCE		DRAWN J.L.W. DATE 8-28-96 CHECKED R.J.H. DATE 8-29-96 APPROVED J.L.W. DATE 9-3-96	
A 13768 REL		EXCEPT AS NOTED - ALL DIMENSIONS IN INCHES TOLERANCE		SCALE 1/2 SIZE D DRAWING 001-2010-006 SH. 1 OF 2 REV. B	
REV. 13768		EXCEPT AS NOTED - ALL DIMENSIONS IN INCHES TOLERANCE		UNIT OF MEAS. EA	

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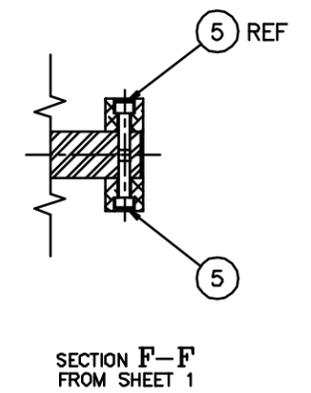
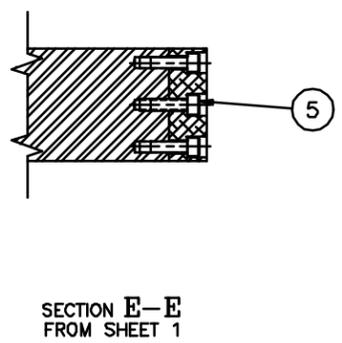
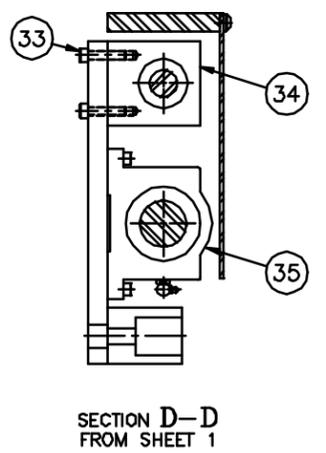
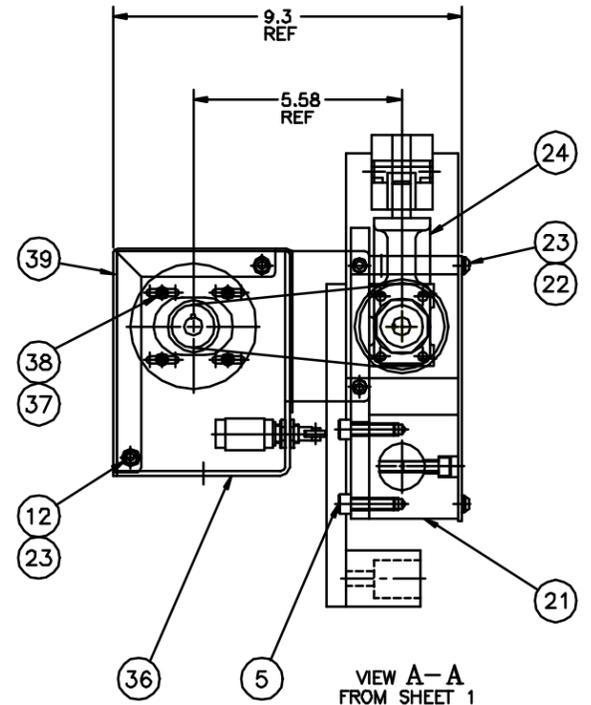
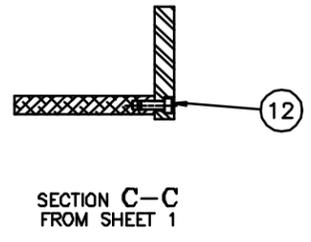
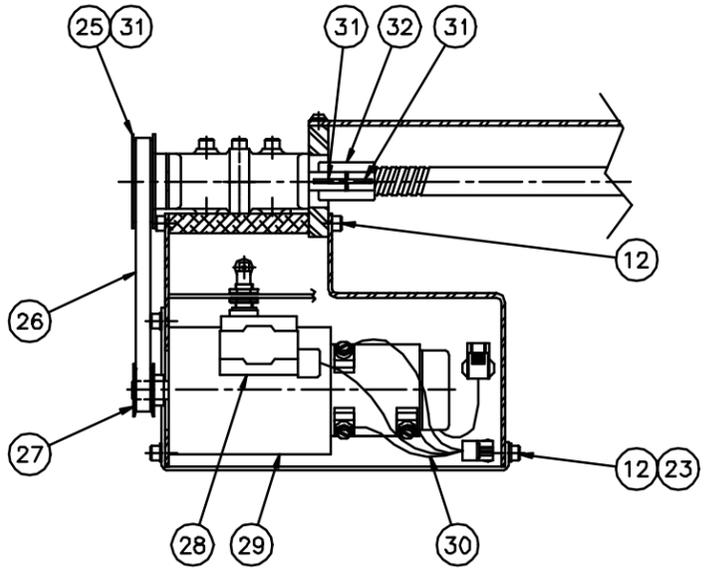
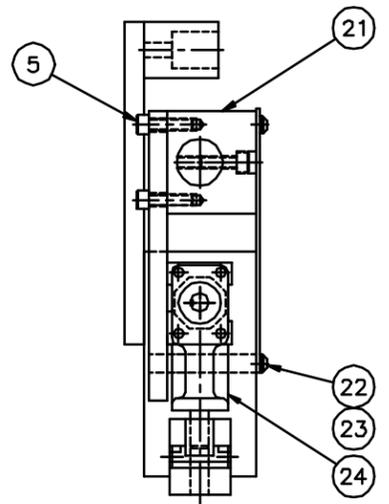
NOTE:  
 AFTER ACCURACY CHECK, DRILL  
 .234 DIA THRU (2) PLACES FOR  
 INSERTION OF SPRING PIN. ITEM 25.

REV	DATE	BY	CHK	DATE	BY	DESCRIPTION
A	13788	REL				

SURFACE TREATMENT	~
HEAT TREATMENT	~
FIRST USED IN	LP11-12

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.			
DESCRIPTION ASSEMBLY, LP11-12 BACKGAUGE			
DRAWN	DATE	CHECKED	DATE
J.L.W.	8-28-96	R.J.H.	8-29-96
APPROVED	DATE	APPROVED	DATE
J.L.W.	9-3-96	J.L.W.	9-3-96
SCALE	SIZE	DRAWING	SH. REV.
1/2	D	001-2010-006	2/B
UNIT OF MEAS			
EA			



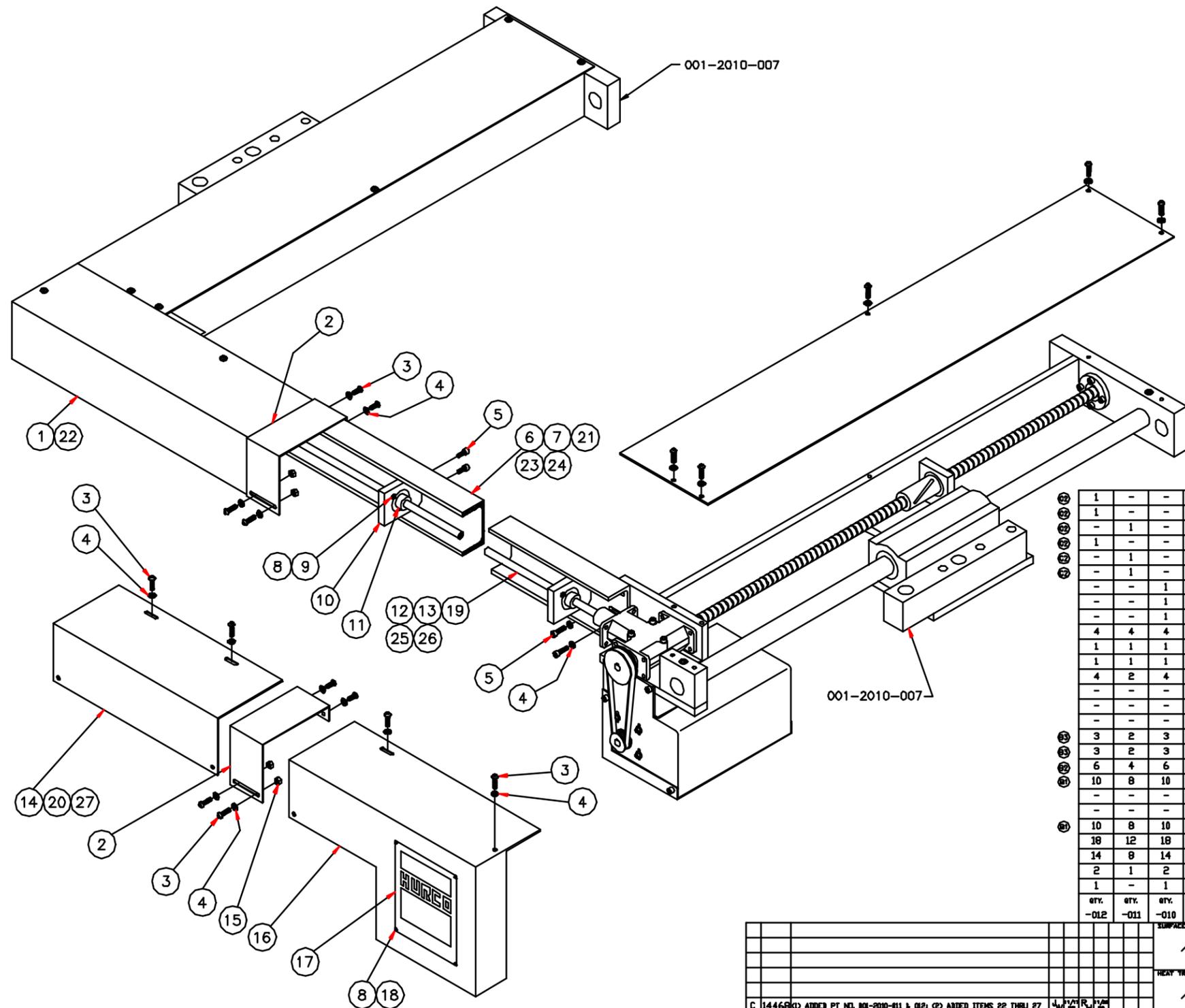


CN  
AB1020-2

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
<b>HURCO MANUFACTURING COMPANY, INC.</b> INDIANAPOLIS, IN U.S.A.			
DESCRIPTION: ASSY, LP21 BACK GAUGE			
DRAWN: J.L.W.		DATE: 8-18-97	APPROVED: R.J.H.
CHECKED: DATE: 8-19-97		DATE: 8-19-97	
FIRST USED ON: LP21		SCALE: 1/2	SIZE: D
REV. 14107 REL		THIRD ANGLE PROJECTION	DRAWING: 001-2010-007
REV. 14107 REL		UNIT OF MEAS: EA	REV. 2 OF 2

SIZE	DRAWING	REV.	REV.	REV.	REV.
D	001-2010	008	010	011	012
		1	1	1	1
					C

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- NOTE:
- SEE PART NUMBER 001-2010-007 FOR ALL OTHER ITEMS NOT LISTED IN BOM.
  - 001-2010-008 LP21 - 2.0 METER GAUGE  
 001-2010-009 LP21 - 3.0 METER GAUGE  
 001-2010-010 LP21 - 2.5 METER GAUGE  
 001-2010-011 LP21 - 1.5 METER GAUGE  
 001-2010-012 LP21 - 4.0 METER GAUGE
  - PLACE ALL FASTENERS INSIDE PLASTIC BAG. (TO BE USED AT INSTALL)

QTY.	QTY.	QTY.	QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	-	-	-	-	801-2003-026	COVER, 4.0 M CENTER REAR CONNECTING	27
1	-	-	-	-	801-2020-012	SHAFT, 4.0 METER REAR CONNECTING	26
-	1	-	-	-	801-2020-011	SHAFT, 1.5 METER REAR CONNECTING	25
1	-	-	-	-	801-2019-005	CHANNEL, 4.0 METER REAR CONNECTING	24
-	1	-	-	-	801-2019-004	CHANNEL, 1.5 METER REAR CONNECTING	23
-	1	-	-	-	801-2003-027	COVER, 1.5 M LEFT REAR CONNECTING	22
-	-	1	-	-	801-2019-003	CHANNEL, 2.5 METER REAR CONNECTING	21
-	-	1	-	-	801-2003-012	COVER, 2.5 METER REAR CONNECTING	20
-	-	1	-	-	801-2020-003	SHAFT, 2.5 METER REAR CONNECTING	19
4	4	4	4	4	117-0100-006	LOCKNUT, M5 DDN 985	18
1	1	1	1	1	703-100L-083	NAMEPLATE, VERTICAL	17
1	1	1	1	1	801-2003-008	COVER, RIGHT REAR CONNECTING	16
4	2	4	4	2	117-5013-001	HEX NUT, M6	15
-	-	-	1	-	801-2003-011	COVER, 3 METER CENTER REAR CONNECTING	14
-	-	-	1	-	801-2020-002	SHAFT, 3 METER REAR CONNECTING	13
-	-	-	-	1	801-2020-001	SHAFT, 2 METER REAR CONNECTING	12
3	2	3	3	2	801-2007-002	BEARING, REAR SUPPORT	11
3	2	3	3	2	801-2011-002	HOUSING, REAR SUPPORT BEARING	10
6	4	6	6	4	110-5001-003	WASHER, M5 FLAT	9
10	8	10	10	8	108-5003-003	BHCS, M5 X 0.8P X 10 LG.	8
-	-	-	1	-	801-2019-002	CHANNEL, 3 METER REAR CONNECTING	7
-	-	-	-	1	801-2019-001	CHANNEL, 2 METER REAR CONNECTING	6
10	8	10	10	8	101-5008-004	SHCS, M6 X 1.0P X 16 LG	5
18	12	18	18	12	110-5001-004	WASHER, M6 FLAT	4
14	8	14	14	8	108-5004-004	BHCS, M6 X 1.0P X 16 LG	3
2	1	2	2	1	801-2003-010	STRAP, REAR COVER	2
1	-	1	1	1	801-2003-009	COVER, LEFT REAR CONNECTING	1

REV.	DATE	DESCRIPTION	BY	CHKD	APPV	DATE	REV.	DATE	DESCRIPTION	BY	CHKD	APPV	DATE
C	14468	(1) ADDED PT NO. 801-2010-011 & (2) ADDED ITEMS 22 THRU 27	J.L.V.	R.J.H.		5-23-97	1						
B	14258	PART 009 & 010 (1) WAS QTY 8; (2) WAS QTY 4; (3) WAS QTY 2	J.L.V.	R.J.H.		5-23-97	1						
A	14107	REL	J.L.V.	R.J.H.		5-23-97	1						

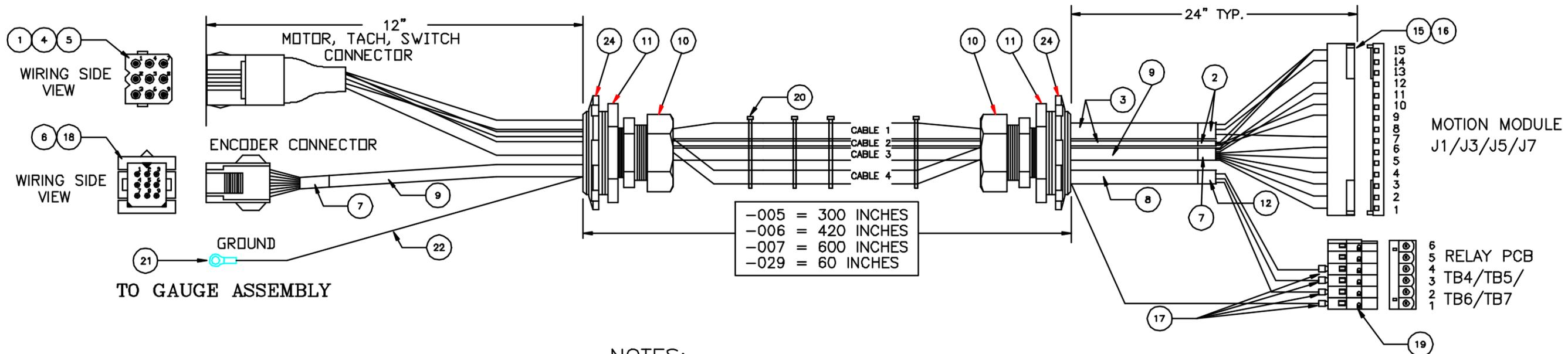
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 AB1047

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

ASSY, REAR COVER KIT

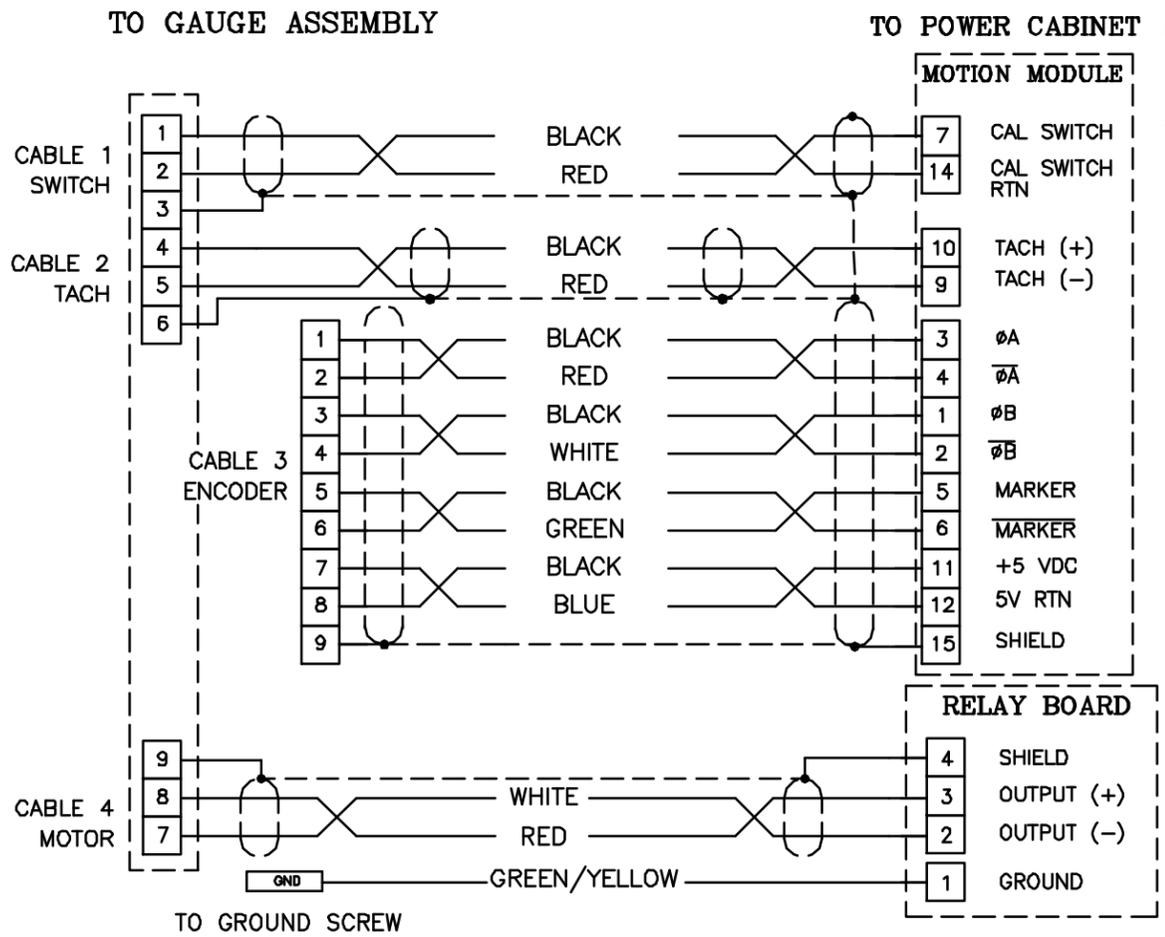
DATE: 5-23-97  
 DRAWN: J.L.V.  
 CHECKED: R.J.H.  
 APPROVED: J.L.V.  
 DATE: 1-10-98

SIZE: D  
 BRWING: 001-2010  
 SHI: 1  
 REV: C



NOTES:

1. LABEL HARNESS WITH PART NUMBER AND REVISION LEVEL LETTER.
2. LABEL CONNECTORS AS SHOWN.
3. OVERALL LENGTHS +/- 1 INCH.
4. TYPICAL STRIP LENGTH 1 TO 2 INCHES.
5. SOLDER DRAINS OF CABLES 1 THRU 3 TO ITEM 13, COVER WITH ITEM 14.
6. SOLDER DRAIN OF CABLE 4 TO ITEM 23, COVER WITH ITEM 14.
7. USE ITEM 20 TO DRESS CABLES, SPACE EVERY 12 INCHES BETWEEN ITEMS 10.
8. CABLES #1 AND #2 ARE ITEM #3. CABLE #3 IS ITEM #9. CABLE #4 IS ITEM #8.
9. AXIS #1: MOTION MODULE J1, RELAY PCB TB4  
 AXIS #2: MOTION MODULE J3, RELAY PCB TB5  
 AXIS #3: MOTION MODULE J5, RELAY PCB TB6  
 AXIS #4: MOTION MODULE J7, RELAY PCB TB7

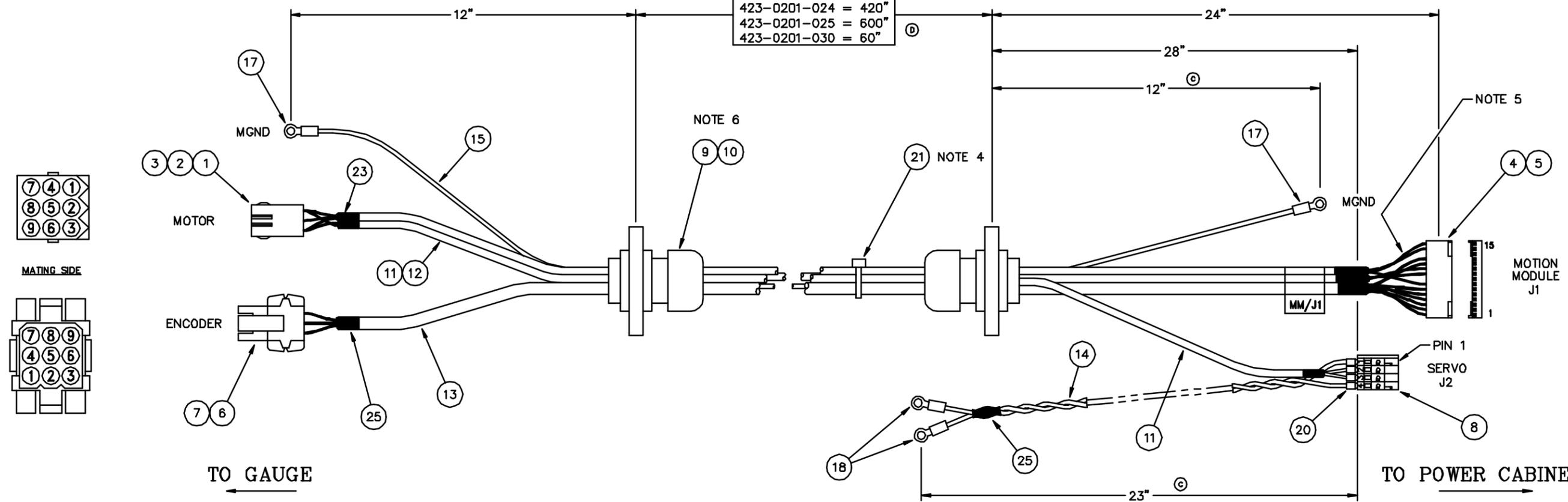


QTY.	QTY.	QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
2	2	2	2	408-8501-010	LOCK NUT 1 1/4"	24
2"	2"	2"	2"	406-2005-020	WIRE, 18 AWG BLACK	23
108"	648"	468"	348"	406-2005-030	WIRE, 18 AWG GREEN/YELLOW	22
1	1	1	1	406-7001-048	RING TONGUE, #8 16-22 AWG	21
5	50	35	25	406-5001-006	WIRE TIE, MEDIUM	20
1	1	1	1	406-4005-061	CONNECTOR, FEMALE W/LATCHES 6 POS	19
9	9	9	9	406-7501-012	CONTACT, PIN, 24-20 AWG GOLD	18
4	4	4	4	406-0965-004	CRIMP FERRULE, 18 AWG RED	17
1	1	1	1	406-0801-142	CRIMP TERMINAL HOUSING, 15 POS.	16
13	13	13	13	406-0801-135	TERMINAL, CRIMP 22-30 AWG	15
4"	4"	4"	4"	406-6481-002	SHRINK TUBE, 1/8" BLACK	14
6"	6"	6"	6"	406-1687-010	WIRE, 24 AWG BLACK	13
4	4	4	4	406-6481-004	SHRINK TUBE, 1/4" DIA. BLACK	12
2	2	2	2	408-1014-012	REDUCER, FEMALE 1 1/4" TO 3/4"	11
2	2	2	2	408-8003-053	CORD CONNECTOR, 3/4"NPT, .375 - .500 I.D.	10
108"	648"	468"	348"	406-1328-006	CABLE, 4 PAIR TWISTED 24 AWG	9
108"	648"	468"	348"	406-1242-001	CABLE, 1 TWISTED PAIR 18 AWG	8
4"	4"	4"	4"	406-6481-005	SHRINK TUBE, 3/8" DIA. BLACK	7
1	1	1	1	406-0803-670	RECEPTACLE, RECTANGULAR 9 POSITION	6
3	3	3	3	406-0801-129	TERMINAL, STD .093 FEMALE 14-20 AWG	5
6	6	6	6	406-0801-131	TERMINAL, STD. .093 FEMALE 22-24 AWG	4
216"	1296"	936"	696"	406-1242-013	CABLE, 1 PR TWISTED 24 AWG	3
4"	4"	4"	4"	406-6481-003	SHRINK TUBE, 3/16" DIA. BLACK	2
1	1	1	1	406-0801-140	RECEPTACLE, STD .093 9 POSITION	1

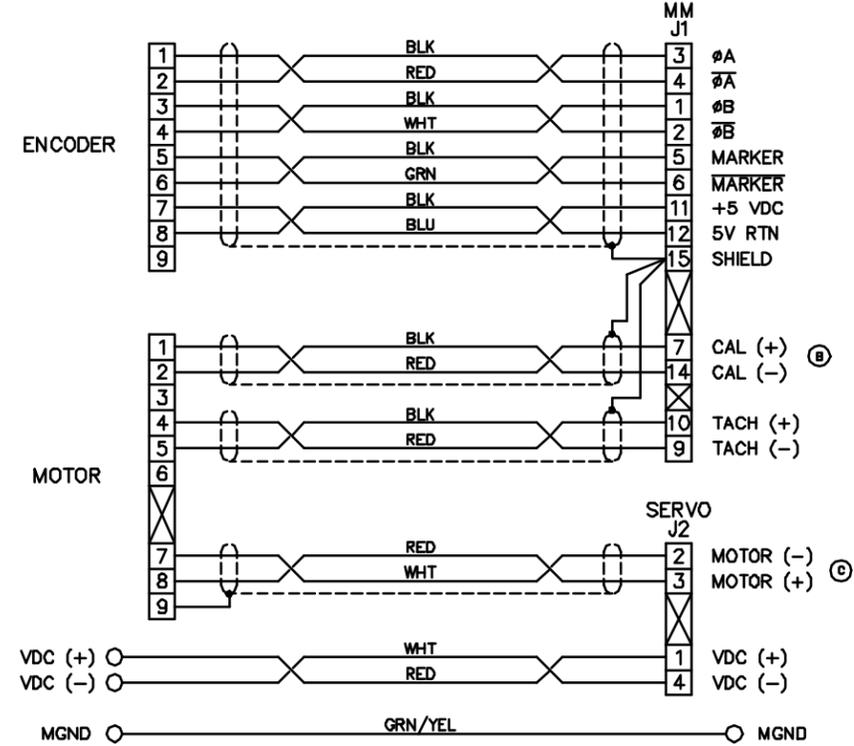
REV.	DATE	DESCRIPTION	BY	CHKD.	DATE	APPROVED	DATE
F	13903	ADDED 96" LENGTH, 423-0201-029					
E	12810	(1) WAS 1 - 408-8003-047; (2) WAS 1 - 408-8003-048; (3) ADDED ITEM 24					
D	12736	CORRECTED WIRE COLORS OF CABLE 4					
C	12646	1) WAS 406-0803-958, 2) WAS 406-0803-959					
B	12609	4) WAS 2 PC 408-8002-012, 5) WAS 1 PC, 6) WAS 3 PC 406-0965-014 1) WAS 406-1242-012, 2) WAS 2 PC 408-8003-042, 3) WAS 2 PC 408-8501-008					
A	12543	RELEASE					

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423-0201-021 = 300"  
 423-0201-024 = 420"  
 423-0201-025 = 600"  
 423-0201-030 = 60"



**SCHEMATIC DIAGRAM**



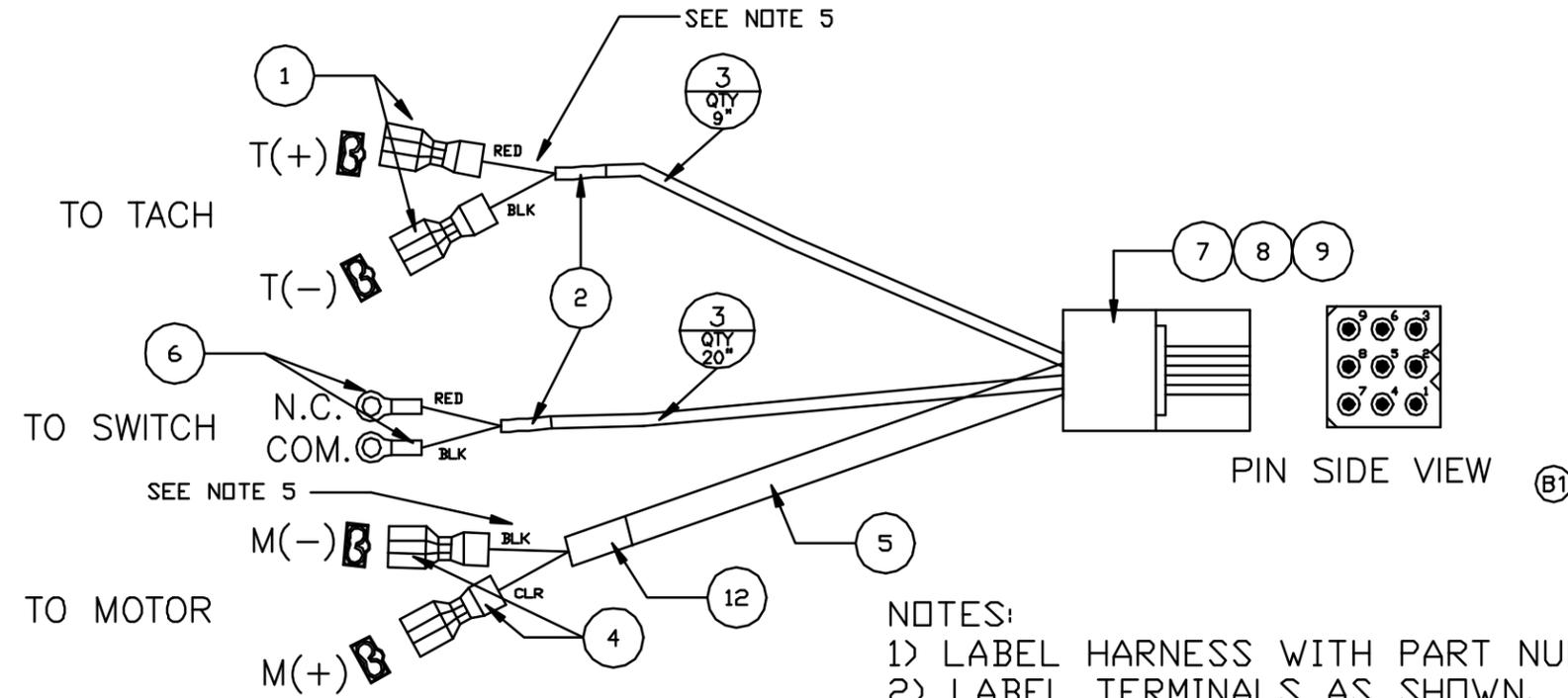
- NOTES:**
- ALL DIMENSIONS ARE STRAIGHT-LINE LENGTH, TOLERANCE  $\pm 1"$ .
  - LABEL CABLE ENDS AS SHOWN.
  - FINISHED ASSEMBLY TO BE MARKED WITH THE HURCO PART NUMBER AND REVISION LETTER USING PERMANENT INK.
  - DRESS CABLES NEATLY USING WIRE TIES (ITEM 21) SPACED APPROX. EVERY 12" BETWEEN STRAIN RELIEFS.
  - SOLDER DRAIN WIRE(S) TO A SHORT LENGTH OF WIRE (ITEM 16) AND COVER THE SPLICE WITH HEAT-SHRINKABLE TUBING (ITEM 22) BEFORE TERMINATING.
  - INSTALL STRAIN RELIEFS (ITEMS 9 & 10) BEFORE TERMINATING CONNECTORS.

QTY.	QTY.	QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
4"	4"	4"	4"	406-6481-005	HEAT-SHRINKABLE TUBING, 3/8" DIA	25
2"	2"	2"	2"	406-6481-004	HEAT-SHRINKABLE TUBING, 1/4" DIA	24
4"	4"	4"	4"	406-6481-003	HEAT-SHRINKABLE TUBING, 3/16" DIA	23
8"	8"	8"	8"	406-6481-002	HEAT-SHRINKABLE TUBING, 1/8" DIA	22
5	50	35	24	406-5001-006	WIRE TIE, MEDIUM	21
2	2	2	2	406-0965-005	FERRULE, 16 AWG (BLK)	20
2	2	2	2	406-0965-004	FERRULE, 18 AWG (RED)	19
2	2	2	2	406-7001-031	RING TONGUE, #10 x 18-14 AWG (BLUE)	18
2	2	2	2	406-7001-008	RING TONGUE, #10 x 22-18 AWG (RED)	17
3"	3"	3"	3"	406-1687-010	WIRE, 24 AWG BLK INS	16
84"	624"	444"	324"	406-2005-030	WIRE, 18 AWG GRN/YEL INS	15
23"	23"	23"	23"	406-2004-005	WIRE, 16 AWG RED/WHT TWSTED	14
96"	636"	456"	336"	406-1328-006	CABLE, 4 TW PR 24 AWG SHIELDED	13
192"	1272"	912"	672"	406-1242-013	CABLE, 1 TW PR 24 AWG SHIELDED	12
98"	638"	458"	338"	406-1242-001	CABLE, 1 TW PR 18 AWG SHIELDED	11
2	2	2	2	408-1014-012	REDUCER, 1-1/4" TO 3/4" T&B #1263	10
2	2	2	2	408-8003-053	STRAIN RELIEF, 3/4" T&B #2532	9
1	1	1	1	406-4005-059	CONNECTOR, 4 POS FEMALE #231-304/026-000	8
8	8	8	8	406-7501-012	PIN CONTACT, 24-20 AWG GOLD AMP #56102-8	7
1	1	1	1	406-0803-670	RECEPTACLE, 9 POS AMP #207440-1	6
13	13	13	13	406-0801-135	TERMINAL, FEM 30-22 AWG MOLEX #08-56-0110	5
1	1	1	1	406-0801-142	CONNECTOR SHELL, 15 POS MOLEX #22-01-3157	4
5	5	5	5	406-0801-131	TERMINAL, FEM 24-22 AWG MOLEX #02-09-1139	3
2	2	2	2	406-0803-129	TERMINAL, FEM 20-14 AWG MOLEX #02-09-1104	2
1	1	1	1	406-0801-140	RECEPTACLE, 9 POS MOLEX #03-09-1094	1
QTY.	QTY.	QTY.	QTY.	ITEM DESCRIPTION		ITEM
-030	-025	-024	-021	PARTS LIST		

REV	DATE	BY	DATE	BY	DATE	BY	DESCRIPTION
F	13903						ADDED PART NUMBER 423-0201-030
E	13762						RELEASE
D							ADDED ADDITIONAL LENGTHS
C							REVISED PER 1st ARTICLE
B							CORRECTED PARTS LIST & SCHEMATIC
A							PROTOTYPE

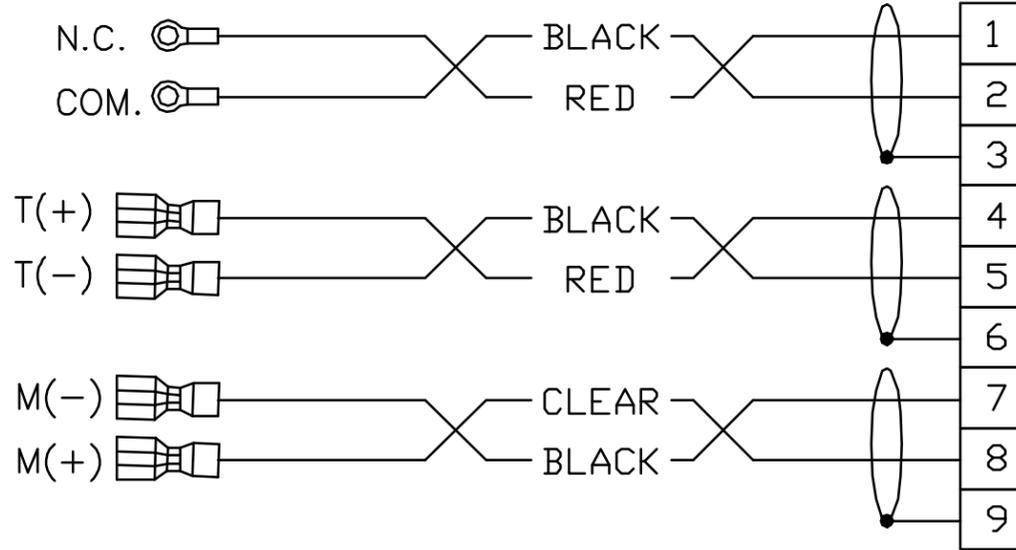
SURFACE TREATMENT 	EXCEPT AS NOTED ALL CORNERS MUST BE AS FOLLOWS DECIMAL .0000 ± 0.0008 .000 ± 0.0100 .000 ± 0.0050 .000 ± 0.0025 .000 ± 0.00125	EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL ± 0.000 ± 0.010 ± 0.005 ± 0.0025 ± 0.00125	HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.
HEAT TREATMENT 	EXCEPT AS NOTED ALL DIMENSIONS MUST BE AS FOLLOWS INSIDE .000" X 45° OR .000" R MAX OUTSIDE .030" X 45° OR .000" R	THIRD ANGLE PROJECTION 	DESCRIPTION HARNESS, AB6 X AXIS INTERFACE DRAWN SEP DATE 23.FEB.96 CHECKED SCA DATE 18.JUL.96 APPROVED J.L.W. DATE 7-22-96
FIRST USED ON AUTOBEND 6	SCALE NONE UNIT OF MEAS EA	SIZE D	DRAWING 423-0201 SHEET 1 OF 1



**NOTES:**

- 1) LABEL HARNESS WITH PART NUMBER AND REVISION.
- 2) LABEL TERMINALS AS SHOWN.
- 3) SOLDER DRAIN OF ITEM #3 TO ITEM #10, COVER WITH ITEM #13.
- 4) SOLDER DRAIN OF ITEM #5 TO ITEM #11, COVER WITH ITEM #13.
- 5) TYPICAL STRIP LENGTH IS 4 INCHES.

SEE NOTE 2



QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
6 IN	406-6481-002	SHRINK TUBE, 1/8" DIA. BLACK	13
2 IN	406-6481-005	SHRINK TUBE, 3/8" DIA. BLACK	12
2 IN	406-2005-020	WIRE, 18 AWG BLACK	11
4 IN	406-1687-010	WIRE, 24 AWG BLACK	10
3 PC	406-0801-132	TERMINAL, MALE CRIMP 0.093 14-20 AWG	9
6 PC	406-0801-139	TERMINAL, MALE CRIMP 0.093 22-24 AWG	8
1 PC	406-0801-138	PLUG, STD. 0.093 9 POSITION	7
2 PC	406-7001-025	RING TONGUE, #6 26-22 AWG	6
9 IN	406-1242-012	CABLE, 1 PAIR TWISTED 16 AWG	5
2 PC	406-7001-077	QUICK CONNECT, .187 X .020 FEMALE 16-14 AWG	4
29 IN	406-1242-013	CABLE, 1 PAIR TWISTED 24 AWG	3
4 IN	406-6481-003	SHRINK TUBE, 3/16" DIA. BLACK	2
2 PC	406-7001-078	QUICK CONNECT, .187 X .020 FEMALE 26-24 AWG	1

PARTS LIST

REV	P.I.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE	DF
D	12790	L.S. LABEL WAS N.O.	F	8/2/93					
C	12760	SWAPPED MOTOR LEAD LABELS	D	7/29/93	K	7/23/93			
B	12609	WAS WIRING SIDE VIEW	K	3/30/93	M	3/21/93	D	4/6/93	
A	12543	RELEASE	K	02/01/93	M	02/02/93	D	02/28/93	

SURFACE TREATMENT ~	EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 7.0300 .00 7.0150 .000 7.0050 0.000 7.0005 ANGULAR ? 0.30' BREAK ALL SHARP EDGES		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.				
HEAT TREATMENT ~		DESCRIPTION HARNESS, AB7 INTERNAL GAUGE S6/S7/S8					
FIRST USED ON AUTOBEND 7	THIRD ANGLE PROJECTION 	DRAWN KLP	DATE 02/01/93	CHECKED MFC	DATE 02/02/93	APPROVED DAB	DATE 2/25/93
		SCALE NONE	SIZE C	DRAWING 423-0204-001	SHT. 1	REV. 1	

CN  
AB498

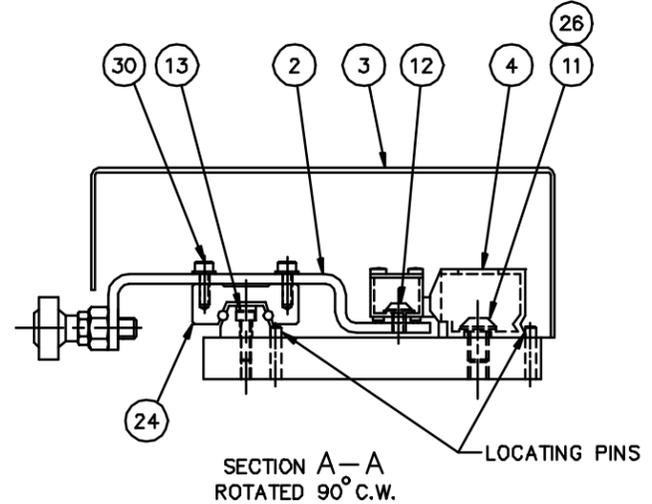
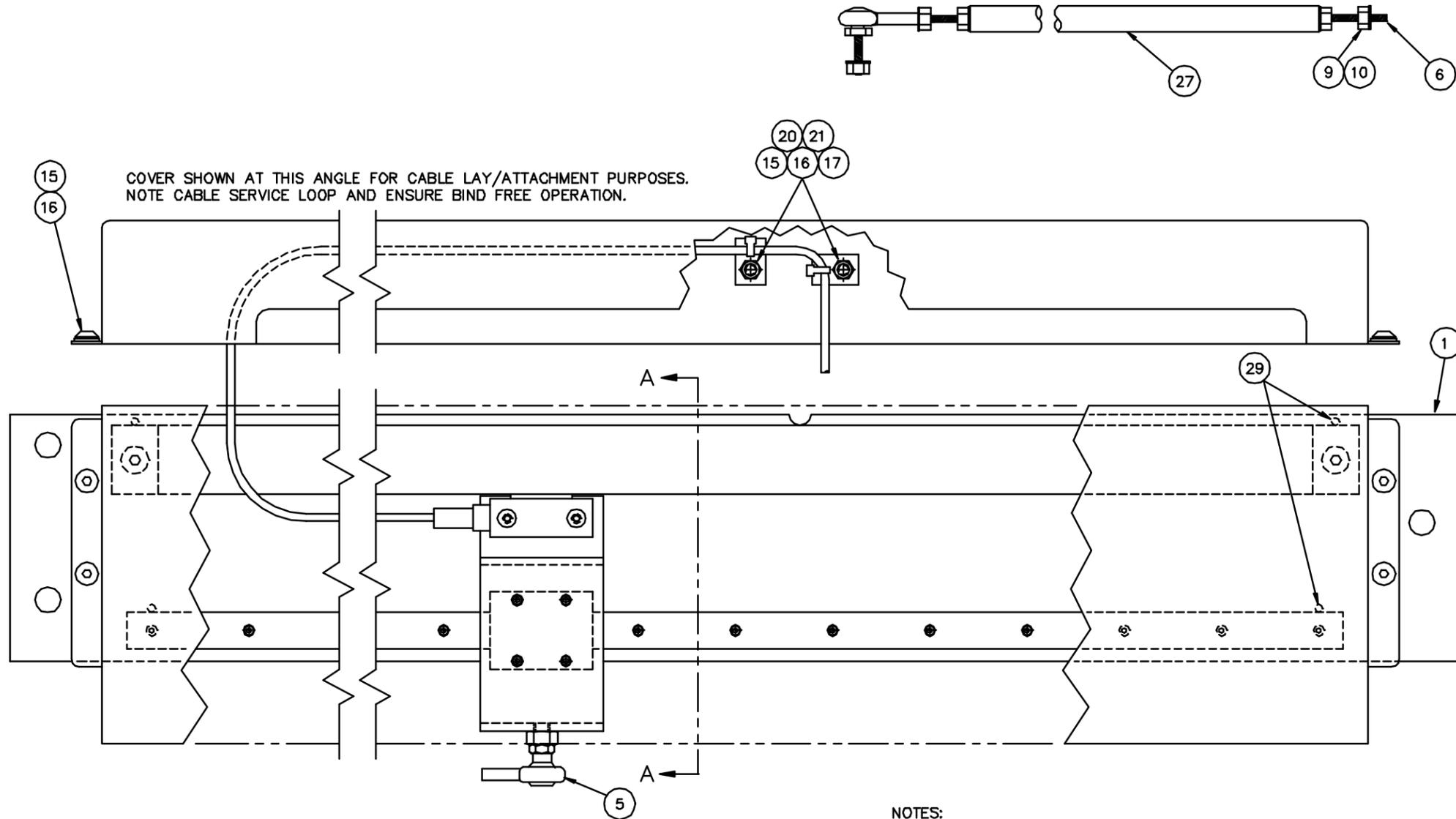
**Y-Axis**

**Y-Axis**





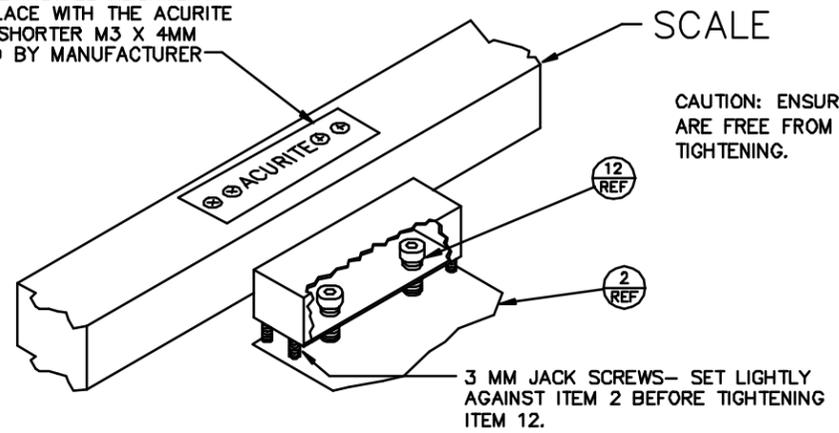




NOTE:  
 ENSURE LINEAR WAY AND SCALE ARE SEATED AGAINST THE LOCATING PINS (ITEM 29) BEFORE FINAL TIGHTENING OF SECURING HARDWARE.

**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.

- NOTES:
- \* 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.
  - ALL FASTENERS TO BE SECURED WITH LOCTITE #242.

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
(89)	4	101-5006-002 SHCS, M3 X 0.5 P X 8 LG	30
(NOT SHOWN)	4	112-0001-003 PIN, DOWEL .125 X .62 LG	29
	1	704-0001-526 ABSC/AB10 SCALE INSTALL MANUAL	28
	1	801-0841-001 TUBE, SCALE ACTUATOR	27
	2	110-0067-007 LOCKWASHER, INT TOOTH M6	26
*	4	110-0042-007 LOCKWASHER, SPLIT 5/16"	25
(89)	1	211-1100-018 ASSY, LINEAR RAIL & BEARING	24
(87)			23
(88)			22
(NOT SHOWN)	2	406-5001-006 TIE WRAP MEDIUM	21
	2	406-5001-002 TIE WRAP MOUNT.	20
	1	801-0839-001 BRACKET, SCALE ACTUATOR	19
	3	110-5150-003 SPHERICAL WASHER SET, 3/8" I.D.	18
	2	117-5012-001 NUT, HEX M5 X 0.8 P	17
(85)	6	110-0067-009 LOCKWASHER, INT TOOTH M5	16
(86)	6	108-5003-003 BHSCS, M5 X 0.8 P X 10 LG	15
*	3	110-0042-008 LOCKWASHER, SPLIT 3/8"	14
(84)	17	101-5006-003 SHCS, M3 X 0.5 P X 10 LG	13
	2	108-5002-001 BHSCS, M4 X 0.7 P X 8 LG	12
	2	108-5004-001 BHSCS, M6 X 1.0 P X 10 LG	11
(5)	6	110-0062-006 LOCKWASHER, INT TOOTH 1/4" I.D.	10
(5)	6	117-0005-001 NUT, HEX 1/4-28	9
*	4	101-0006-004 SHCS, 5/16-18 X 3/4 LG	8
*	3	101-0007-006 SHCS, 3/8-16 X 1 1/4 LG	7
*	36.0	322-0002-001 1/4-28 THRD ROD	6
(1)	2	211-3608-005 BALL JOINT, 1/4-28 THRD.	5
(83)	1	416-0249-038 SCALE, LINEAR 20 IN.	4
	1	801-0837-002 COVER, SCALE, 20"	3
(82)	1	801-2002-004 BRACKET, SCALE TO BEARING BLOCK	2
(81)	1	801-2000-004 BASE PLATE, SCALE 20"	1

REV	DATE	BY	CHK	DATE	APPROVE	DESCRIPTION
B	12583					(7) WAS QTY 7, 110-0067-006, (8) WAS 211-1100-012, (9) ADDED ITEM 30
B	12583					(4) QTY WAS 7, 108-5002-002, (5) QTY WAS 10, (6) DELETED 334-0001-010, REF REDRAWN - (1) WAS 801-0839-001, (2) WAS 801-0838-001, (3) WAS 416-0249-038

SURFACE TREATMENT:

HEAT TREATMENT:

FIRST USED ON: AB7

EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE

DECIMAL: 0 ± 0.000, .00 ± 0.000, .000 ± 0.000, .0000 ± 0.0005, ANGULAR ± 0°30', BREAK ALL SHARP EDGES

THIRD ANGLE PROJECTION:

UNIT OF MEAS. EA.

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

DESCRIPTION: ASSY, SCALE - STANDARD 20 INCH

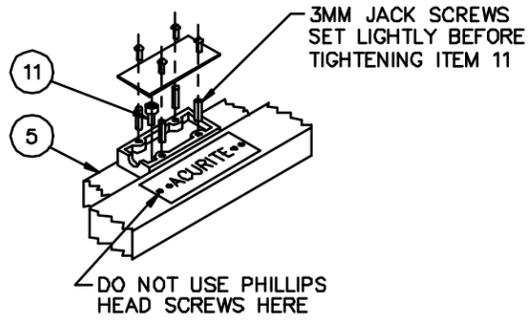
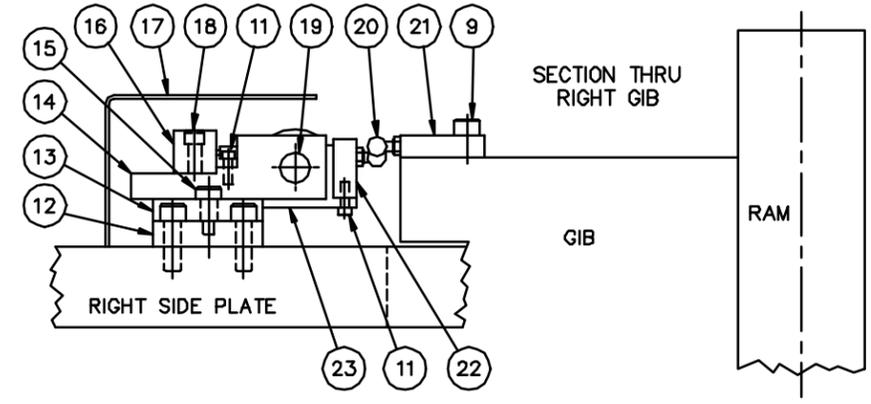
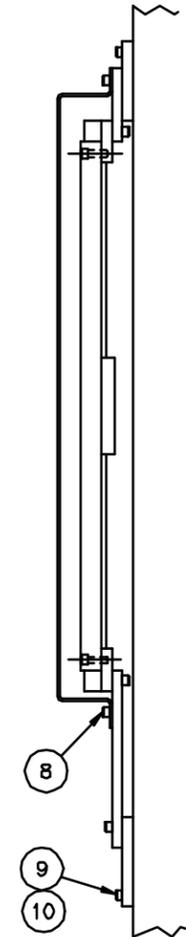
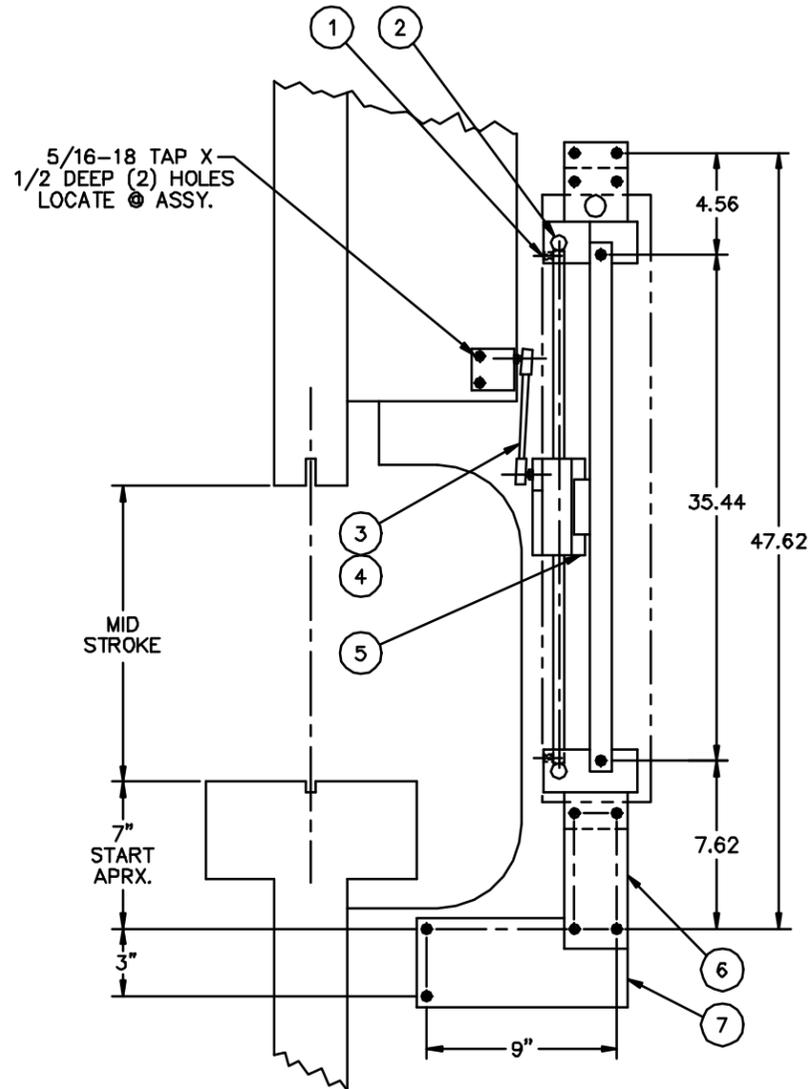
DRAWN: GLH, DATE: 1-15-93, CHECKED: KLP, DATE: 1-15-93, APPROVED: [Signature], DATE: [Blank]

SCALE: 1=1

DWG NO: 001-2004-002

SHY: 1 OF 1

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DETAIL B & L SCALE

NOTE:  
 1. ALL FASTENERS TO BE SECURED WITH LOCTITE #242.

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	801-0350-001	PILLOW BLOCK, THOMPSON	23
1	801-0330-001	SPACER, BALL JOINT	22
1	801-0282-002	GIB MOUNTING	21
2	211-3608-005	BALL JOINT, 1/4-28	20
1	210-0045-005	THOMPSON ROD, 3/4 DIA X 35 7/8 LG	19
REF	-	M4 X 10 LG SCREW (COMES W/ SCALE)	18
1	901-0055-005	GUARD	17
1	416-0249-039	30" LINEAR SCALE	16
1	115-0004-001	SHSS, 1/2 DIA X 1/2 LG	15
2	801-0281-001	BRACKET, SCALE	14
1	801-0285-001	BLOCK, TOP	13
1	801-0284-001	BLOCK, TOP MOUNTING	12
6	101-0003-003	SHCS, #8-32 X 1/2 LG	11
4	110-0001-007	WASHER, FLAT 5/16"	10
10	101-0006-006	SHCS, 5/16-18 X 1" LG	9
4	101-0006-004	SHCS, 5/16-18 X 3/4 LG	8
1	801-0291-001	BRACKET, LOCATOR	7
1	801-0292-001	BAR, LOWER	6
1	801-0329-001	SPACER, SLIDE BLOCK	5
4	117-0005-001	NUT, HEX 1/4-28	4
8"	322-0002-001	ROD, ALL-THREAD 1/4-28	3
2	101-0009-007	SHCS, 1/2-13 X 1 1/2 LG	2
2	103-0122-009	SSS, 1/4-28 X 3/8 LG NYLOK	1

CN AB179

REV	DATE	BY	CHKD	DATE	APPROV	DATE
B 12583	RELEASE - (1)ADDED ITEM #16					

SURFACE TREATMENT:

HEAT TREATMENT:

FIRST USED ON: AB7

EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES. TOLERANCE: DECIMAL 0 ±.0200, .00 ±.0180, .0000 ±.0080, .0000 ±.0008. ANGULAR ±0°30'. BREAK ALL SHARP EDGES.

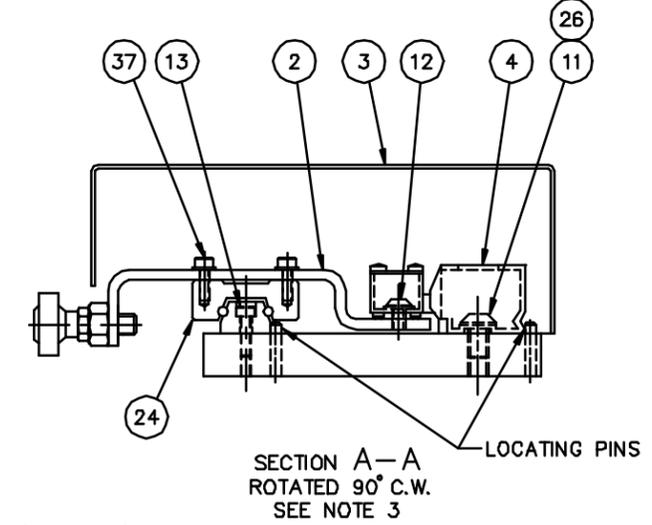
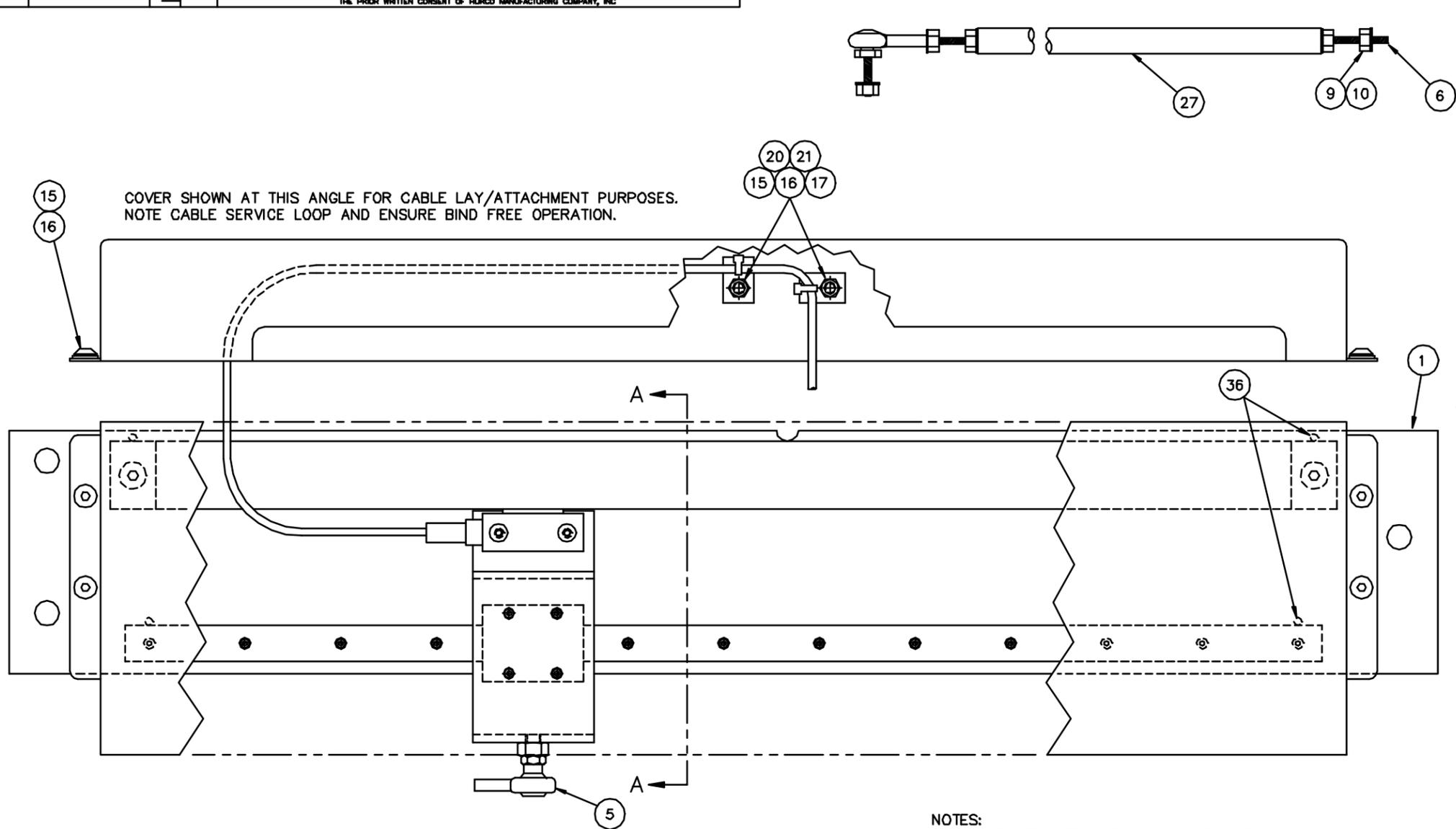
HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.

DESCRIPTION: SCALE ASSY, 30" STD AB7

SCALE: NONE. UNIT OF MEAS. EA.

DATE: 1-25-93. CHECKED: KLP. DATE: 1-25-93. APPROVED: [Signature].

SIZE: D. DRAWING: 001-2004-003. SHY: 1 OF 1. REV.



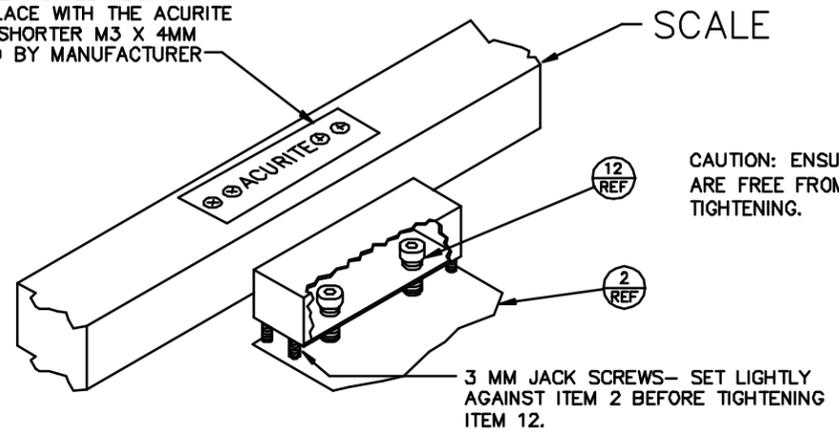
(NOT SHOWN)

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
4	110-5001-008	FLAT WASHER, M16	40
4	101-5014-009	SHCS, M16 X 60 LG.	39
1	801-0838-003	SPACER, SCALE SUPPORT BRACKET	38
4	101-5006-002	SHCS, M3 X 0.5 P X 8 LG	37
4	112-0001-003	PIN, DOWEL .125 X .62 LG	36
1	704-0001-526	ABSC/AB10 SCALE INSTALL MANUAL	35
2	110-0042-012	LOCKWASHER, 5/8"	34
2	117-0001-007	NUT, HEX 5/8"	33
2	110-0004-012	WASHER, FLAT 5/8"	32
2	604-0001-010	DOVETAIL BOLT, 5/8 X 2 3/16 LG	31
11	605-5001-001	SPRING WASHER	30
1	115-0004-004	SHSS, 3/8-16 X 1/2 X 1.0	29
1	901-0101-002	SCALE SUPPORT, CINC BED REF	28
1	801-0841-002	TUBE, SCALE ACTUATOR 6" LG	27
2	110-0067-007	LOCKWASHER, INT TOOTH M6	26
4	110-0042-007	LOCKWASHER, SPLIT 5/16"	25
1	211-1100-019	ASSY, LINEAR RAIL & BEARING	24
			23
			22
2	406-5001-006	TIE WRAP MEDIUM	21
2	406-5001-002	TIE WRAP MOUNT.	20
1	801-0282-006	GIB MOUNTING, SCALE ACTUATOR	19
3	110-5150-003	SPHERICAL WASHER SET, 3/8" I.D.	18
2	117-5012-001	NUT, HEX M5 X 0.8 P	17
6	110-0067-009	LOCKWASHER, INT TOOTH M5	16
6	108-5003-003	BHSCS, M5 X 0.8 P X 10 LG	15
3	110-0042-008	LOCKWASHER, SPLIT 3/8"	14
13	101-5006-003	SHCS, M3 X 0.5 P X 10 LG	13
2	108-5002-001	BHSCS, M4 X 0.7 P X 8 LG	12
2	108-5004-001	BHSCS, M6 X 1.0 P X 10 LG	11
6	110-0062-006	LOCKWASHER, INT TOOTH 1/4" I.D.	10
6	117-0005-001	NUT, HEX 1/4-28	9
2	101-0006-006	SHCS, 5/16-18 X 1.0 LG	8
3	101-0007-006	SHCS, 3/8-16 X 1 1/4 LG	7
1	801-0842-002	ROD, SCALE ACTUATOR, 10" LG	6
2	211-3608-005	BALL JOINT, 1/4-28 THRD.	5
1	416-0249-037	SCALE, LINEAR 14 IN.	4
1	801-0837-001	COVER, SCALE	3
1	801-2002-004	BRACKET, SCALE TO BEARING BLOCK	2
1	801-2000-003	BASE PLATE, SCALE 14"	1

- NOTES:
- \* DENOTES ITEMS TO BE PLACED INTO A PLASTIC BAG AND SEALED. ITEMS 6, 19, 27, & 28 ARE TO BE INDIVIDUALLY WRAPPED. PLACE THE SCALE ASSY AND THE REMAINING PARTS OF THIS ASSEMBLY INTO THE SCALE PACKING BOX PROVIDED BY MANUFACTURER.
  - ALL FASTENERS TO BE SECURED WITH LOCTITE #242.
  - ENSURE LINEAR WAY AND SCALE ARE SEATED AGAINST THE LOCATING PINS (ITEM 36) BEFORE FINAL TIGHTENING OF SECURING HARDWARE.

**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



REV	DATE	BY	CHKD	DATE APPROV	DESCRIPTION
C	12634				ADDED ITEMS 38, 39, & 40
B	12583				DELETED QTY 5, 110-0087-006, (3) WAS 211-1100-011, (6) ADDED ITEM 38
B	12583				(4) WAS QTY 6, 108-5002-002, (3) WAS QTY 10, (6) DELETED 334-0001-010 REF. REZMAN - (1) WAS 801-0836-001, (2) WAS 801-0836-001, (3) WAS 416-0249-038.

SURFACE TREATMENT:

HEAT TREATMENT:

FIRST USED ON: AB7

EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE

DECIMAL	± 0.000
0	± 0.180
.000	± 0.000
.0000	± 0.0005
ANGULAR ±0°30'	
BREAK ALL SHARP EDGES	

THIRD ANGLE PROJECTION

UNIT OF MEAS. EA.

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

DESCRIPTION: ASSY, SCALE - STANDARD 14 INCH CINCI BED REF OPT.

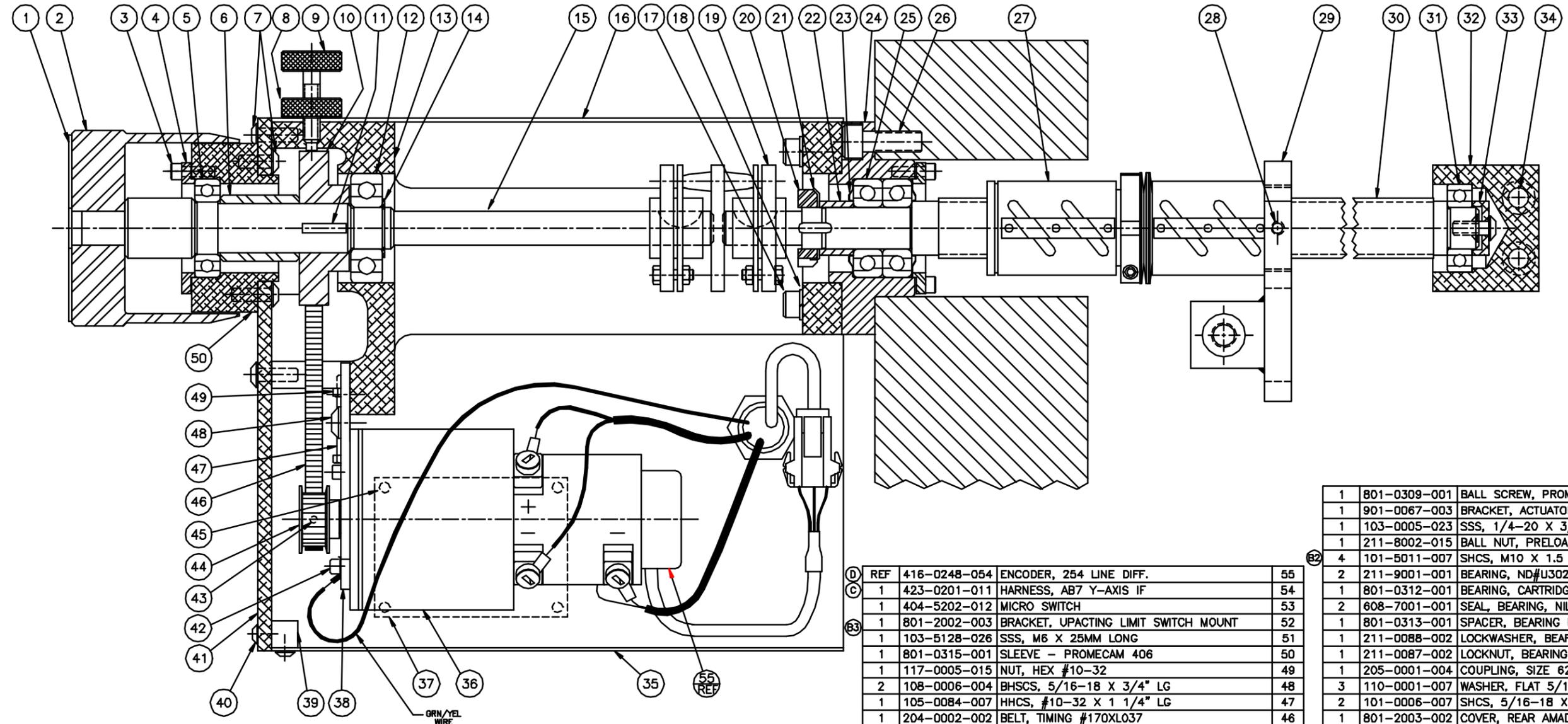
DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
GLH	3-5-93	KLP	3-5-93	JLW	3-12-93

SCALE: 1=1

DRAWING: 001-2004-004

REV. 1

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- NOTES:  
 1) CW ROTATION INCREASES ANGLE.  
 2) ITEMS 26, 34, 51, 52, 53 AND 54 INSTALLED AT INSTALL.  
 3) ITEMS 51 THRU 54 NOT SHOWN ON ASSEMBLY.

REF	PART NUMBER	ITEM DESCRIPTION	ITEM
416-0248-054	ENCODER, 254 LINE DIFF.	55	
423-0201-011	HARNESS, AB7 Y-AXIS IF	54	
404-5202-012	MICRO SWITCH	53	
801-2002-003	BRACKET, UPACTING LIMIT SWITCH MOUNT	52	
103-5128-026	SSS, M6 X 25MM LONG	51	
801-0315-001	SLEEVE - PROMECAM 406	50	
117-0005-015	NUT, HEX #10-32	49	
108-0006-004	BHSCS, 5/16-18 X 3/4" LG	48	
105-0084-007	HHCS, #10-32 X 1 1/4" LG	47	
204-0002-002	BELT, TIMING #170XL037	46	
111-0241-001	RIVET, SCOVIL #AD-32-ABS	45	
208-0002-010	SPROCKET, 16XL037 1/2" BORE	44	
103-0003-001	SSS, 8-32 X 1/8 KNURL CUP POINT	43	
101-0003-004	SHCS, #8-32 X 5/8" LG	42	
801-0160-003	COVER, END PROMECAM 2-AXIS AB20	41	
108-0084-003	BHSCS, #10-32 X 1/2" LG	40	
801-0237-001	SUPPORT, COVER 2-AXIS PROMECAM	39	
801-0027-002	BRACKET, MOTOR MTG.	38	
703-1001-053	LABEL, INFO. VERTICAL AXIS CONTROL	37	
001-2009-003	MTE, AB7 254 LINE	36	
801-1903-002	COVER, FRONT AMADA/PROMECAM 400 AB20	35	
101-5011-017	SHCS, M10 X 1.5 P X 75 LG	34	
801-0348-001	END CAP 2 AXIS	33	
801-0311-001	HOUSING, BEARING, PROMECAM	32	
211-0009-011	RADIAL BEARING ND 773L04	31	

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
4	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	608-7001-001	SEAL, BEARING, NILOS #3204JV	23
1	801-0313-001	SPACER, BEARING PROMECAM 406	22
1	211-0088-002	LOCKWASHER, BEARING WD4 AFBMA	21
1	211-0087-002	LOCKNUT, BEARING ND4	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	801-2003-002	COVER, REAR AMADA/PROMECAM 400 AB7	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 #807	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

CN AB493

REV	DATE	BY	DESCRIPTION
D	13612	ADDED ITEM	55
C	13341	ADDED ITEM	54
B	12543	1) DELETE 4PC 108-8001-003, 2) WAS REF. 3) ADD ITEMS 51 THRU 53	

SURFACE TREATMENT:

HEAT TREATMENT:

FIRST USED ON: AB7

THIRD ANGLE PROJECTION:

EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0000 ±.0005 .0000 ±.0005 .0000 ±.0005 .0000 ±.0005 ANGULAR ±30°30' BREAK ALL SHARP EDGES

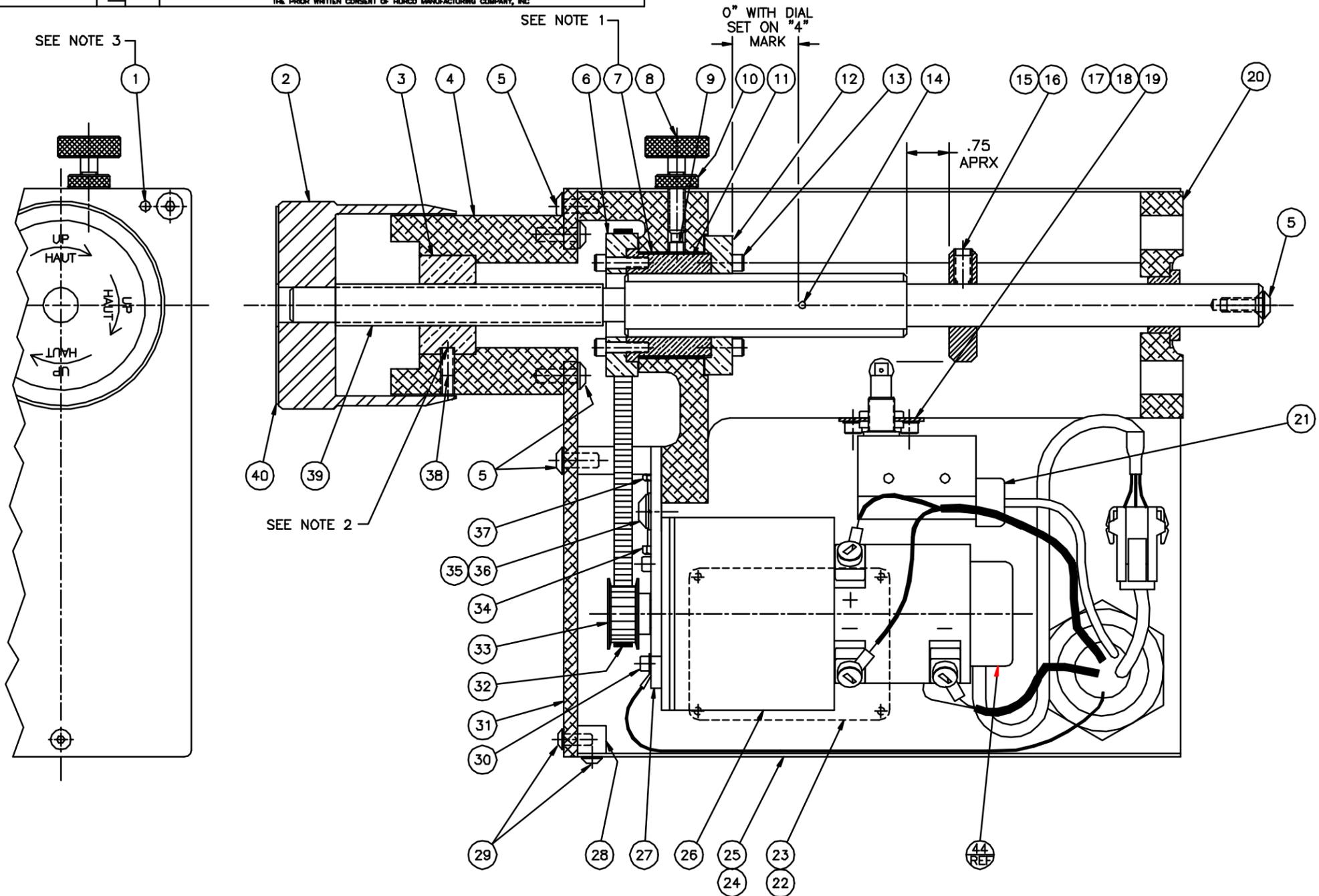
HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.

DESCRIPTION: ASSY, PROMECAM 400 DRIVE, AB7

DRAWN: GLH DATE: 1-13-93 CHECKED: KLP DATE: 1-13-93 APPROVED: JLW DATE: 2-25-93

SCALE: 1=1 UNIT OF MEAS. EA. D 001-2006-001 SHY 1 OF 1 REV.

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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.
2. SET SCREW MUST BE ON FLAT OF ITEM (2).
3. AFTER CYCLE, DRILL .18 DIA X .9 DEEP, AT PILOT HOLE TO INSERT 3/16 DIA SPRING PIN (ITEM 1), 2 PLACES.
4. CW IS DOWN DIRECTION.
5. ITEMS 41, 42 & 43 NOT SHOWN.
6. ITEMS 41, 42 & 43 USED AT INSTALL.

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	416-0248-054	ENCODER, 254 LINE DIFF	44
1	423-0201-011	HARNES, AB7 Y-AXIS IF	43
1	103-5128-026	SSS, M6 X 25MM LONG	42
2	101-5011-009	SHCS, M10 X 35MM LONG	41
1	703-0003-006	PROMECAM DIAL LABEL, L.H.	40
1	801-0182-003	DRIVE SCREW-L.H. LONG	39
1	103-0005-027	SSS, 1/4-20 X 1/2 LG KNURL CUT PT.	38
1	117-0005-015	NUT, HEX, #10-32	37
1	110-0001-007	WASHER, FLAT 5/16"	36
2	108-0006-004	BHSCS, 5/16-18 X 3/4 LG	35
1	105-0084-007	HHCS, #10-32 X 1 1/4 LG	34
1	208-0002-002	SPROCKET, 20XLBO37 1/2" BORE	33
1	204-0002-002	BELT, TIMING, 170XL037	32
1	801-0160-003	COVER, END PROMECAM 2-AXIS AB20	31
4	101-0003-004	SHCS, #8-32 X 5/8 LG	30
11	108-0084-003	BHSCS, #10-32 X 1/2 LG	29
1	801-0237-001	SUPPRT, COVER 2-AXIS PROMECAM	28
1	801-0027-002	BRACKET, MOTOR MOUNTING	27
1	001-2009-003	MTE, AB7 254 LINE	26
1	801-2003-001	COVER, REAR PROMECAM AB7	25
1	801-1903-001	COVER, FRONT PROMECAM AB20	24
4	111-0241-001	RIVET, #AD-32-ABS SCOVIL	23
1	703-1001-053	LABEL, INF. VERTICAL AXIS CONTROL	22
1	404-5202-012	LIMIT SWITCH	21
1	801-0300-001	FRAME, CASTING PROMECAM 2-AXIS	20
4	110-0042-004	LOCKWASHER, HELICAL, #10	19
4	101-0084-002	SHCS, #10-32 X 1/2 LG	18
1	801-1902-002	BRACKET, LIMIT SWITCH	17
1	801-1904-001	COLLAR, L.S.	16
1	103-0006-022	SSS, 5/16-18 X 1/2 LG KNURLED CUP PT.	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	112-5006-005	SPRING PIN, 3/16 DIA X 3/4 LG	1

CN AB494

REV	DATE	BY	DESCRIPTION
G	13612	JLW	ADDED ITEM 44
F	13341	JLW	ADDED ITEM 43
E	13233	JLW	ITEM #6 HAD BEEN DELETED BY ERROR
D	13171	JLW	WAS 801-0163-001
C	12850	JLW	ITEM 18 WAS 101-0004-002
B	12543	GLH	RELEASE

SURFACE TREATMENT: EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .00 .0150 .0000 1.0000 2.0000

HEAT TREATMENT: ANGULAR 7 DEGREE BREAK ALL SHARP EDGES

FIRST USED ON: AB7

THIRD ANGLE PROJECTION

UNIT OF MEAS. EA.

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

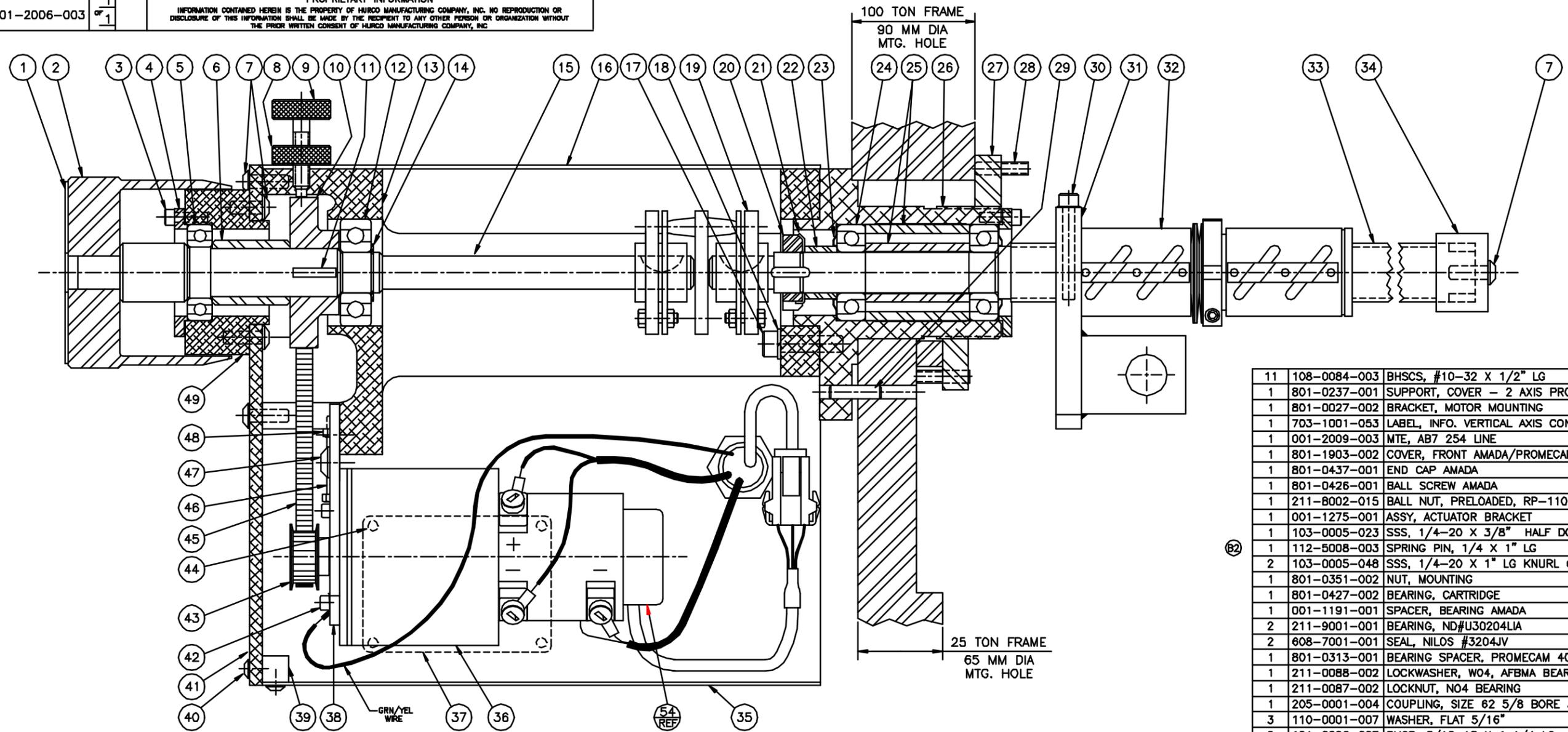
DESCRIPTION: ASSY, PROMECAM DRIVE, AB7

DRAWN: GLH DATE: 1-14-83 CHECKED: KLP DATE: 1-14-83 APPROVED: JLW DATE: 2/25/83

SCALE: 1=1

DWG NO: 001-2006-002 SHY 1 OF 1 REV.

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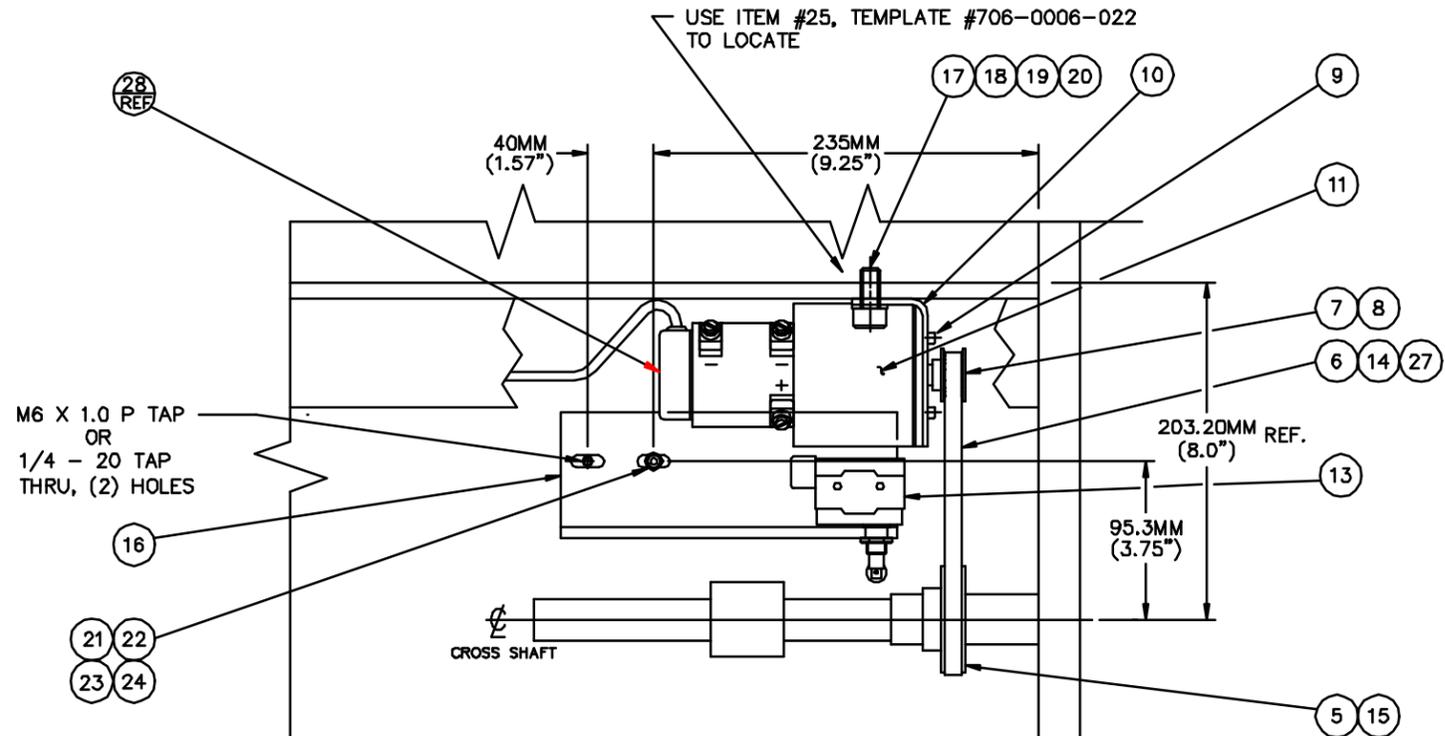
11	108-0084-003	BHSCS, #10-32 X 1/2" LG	40
1	801-0237-001	SUPPORT, COVER - 2 AXIS PROMECAM	39
1	801-0027-002	BRACKET, MOTOR MOUNTING	38
1	703-1001-053	LABEL, INFO. VERTICAL AXIS CONTROL	37
1	001-2009-003	MTE, AB7 254 LINE	36
1	801-1903-002	COVER, FRONT AMADA/PROMECAM 400 AB20	35
1	801-0437-001	END CAP 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	103-0005-023	SSS, 1/4-20 X 3/8" HALF DOG BRASS PT.	30
1	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#U30204LIA	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	801-2003-002	COVER, REAR AMADA/PROMECAM 400 AB7	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 #807	11
1	208-0002-008	SPROCKET 48XL037	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	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

REF	416-0248-054	ENCODER, 254 LINE DIFF.	54
1	423-0201-011	HARNES, AB7 Y-AXIS IF	53
1	404-5202-012	MICRO SWITCH	52
1	801-2002-003	BRACKET, UPACTING LIMIT SWITCH MOUNT	51
1	103-5128-026	SSS, M6 X 25MM LONG	50
1	801-0315-001	SLEEVE - PROMECAM 406	49
1	117-0005-015	HEX NUT, #10-32	48
2	108-0006-004	BHSCS, 5/16-18 X 3/4" LG	47
1	105-0084-008	HHCS, #10-32 X 1 1/2" LG	46
1	204-0002-004	BELT, TIMING #190XL037	45
4	111-0241-001	RIVET, #AD-32-ABS SCOVIL	44
1	208-0002-001	SPROCKET, 30XLM037 1/2" BORE	43
4	101-0003-004	SHCS, #8-32 X 5/8 LG	42
1	801-0160-003	COVER, END - PROMECAM 2 AXIS AB20	41
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM

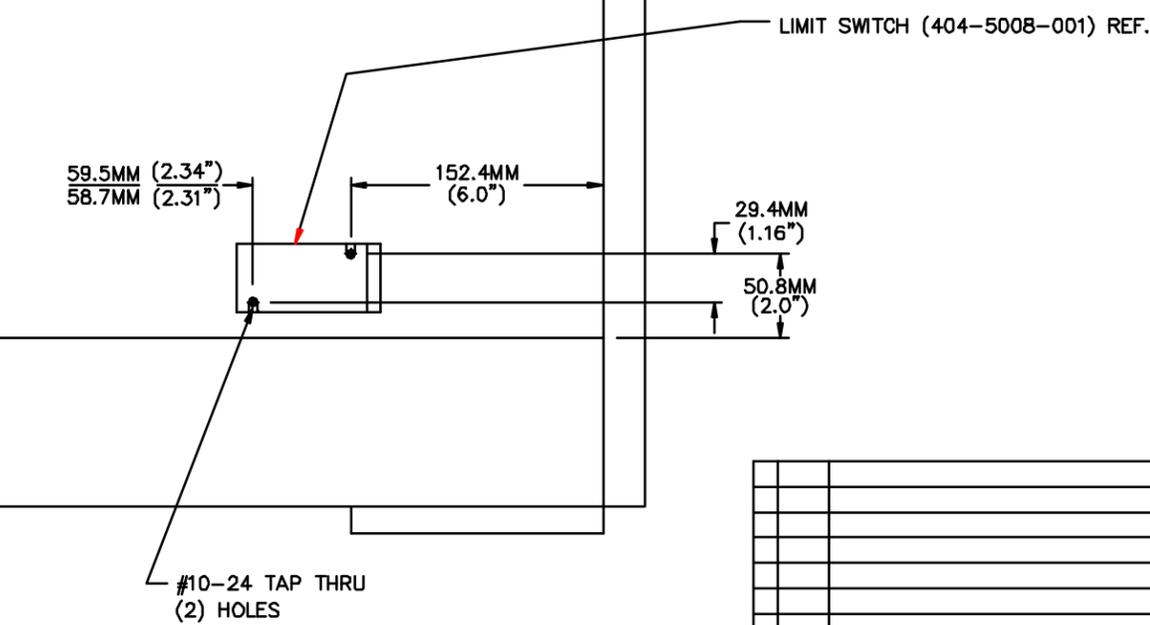
NOTES:  
 1) CW ROTATION IS DOWN DIRECTION.  
 2) ITEMS 29, 50, 51, 52 AND 53 NOT SHOWN. USED AT INSTALLATION.

SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE		HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT		DECIMAL 0 ±.0300 .00 ±.0180 .000 ±.0080 .0000 ±.0005 ANGLUAR ±0°30' BREAK ALL SHARP EDGES		DESCRIPTION ASSY, AMADA DRIVE, AB7	
FIRST USED ON		THIRD ANGLE PROJECTION		DRAWN GLH DATE 1-13-93 CHECKED KLP DATE 1-13-93 APPROVED JLW DATE 2-28-93	
AB7		SCALE 1=1 UNIT OF MEAS. EA.		D 001-2006-003 OF 1	





VIEW FROM REAR  
 OF ADIRA QHA PRESS BRAKE



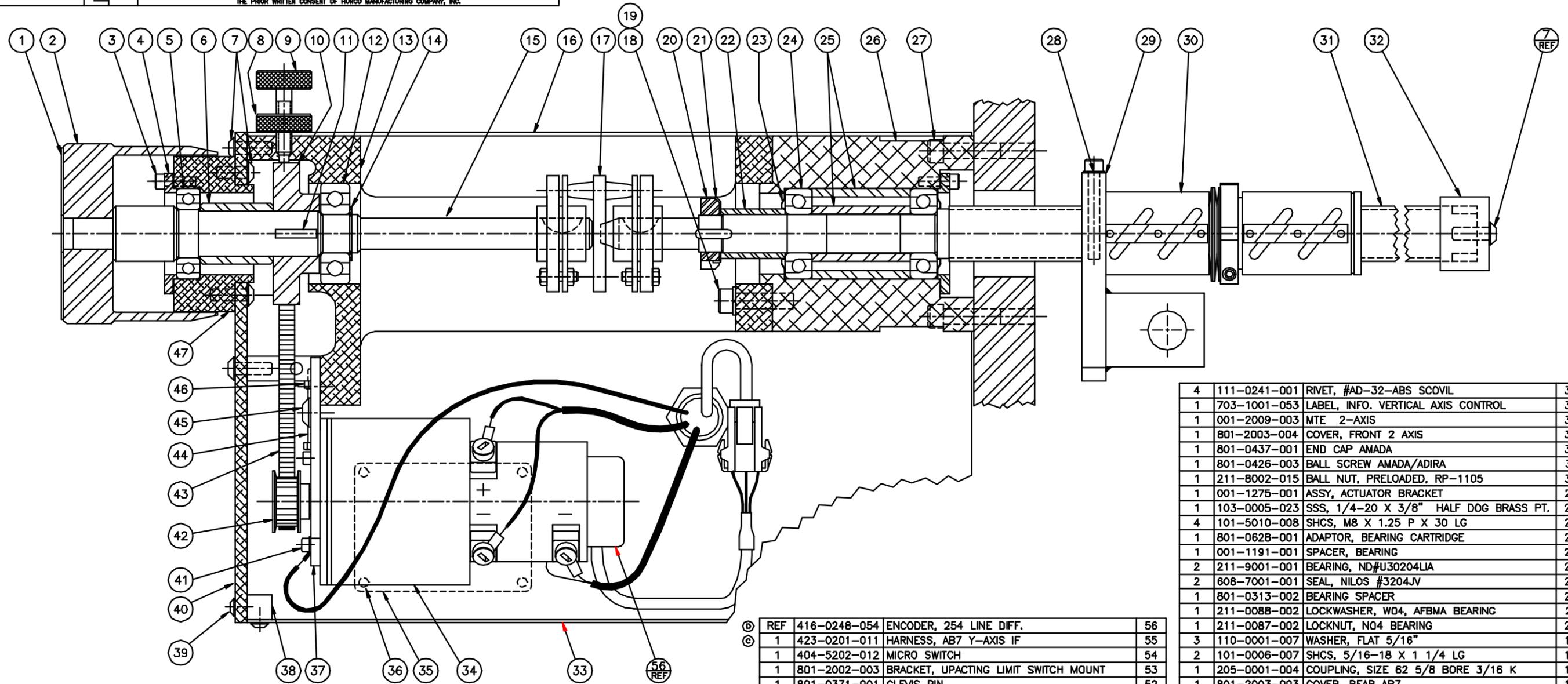
CN  
 AB173-2

REV	DATE	BY	DESCRIPTION
B	12543	REL	

SURFACE TREATMENT	~
TREAT TREATMENT	~
FINISH USED ON	AB7

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.			
DESCRIPTION			
ASSEMBLY, ADIRA QHA 2nd AXIS			
DRAWN	DATE	CHECKED	DATE
GLH	5-10-94	JLW	5-19-94
APPROVED	DATE		
JLW	6-6-94		
SCALE	SIZE	DRAWING	SH1. 2 OF 2
1=2	D	001-2006-004	

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NOTES:  
 1) CW ROTATION IS DOWN DIRECTION.  
 2) ITEMS 27, AND 48 THRU 55 USED AT INSTALLATION.  
 3) ITEMS 48 THRU 55 NOT SHOWN.

REF	ITEM DESCRIPTION	ITEM
416-0248-054	ENCODER, 254 LINE DIFF.	56
423-0201-011	HARNESS, AB7 Y-AXIS IF	55
404-5202-012	MICRO SWITCH	54
801-2002-003	BRACKET, UPACTING LIMIT SWITCH MOUNT	53
801-0371-001	CLEVIS PIN	52
801-0389-001	BUSHING, INSTALL ADIRA	51
801-0368-001	UNIVERSAL LINK	50
801-0367-001	CLEVIS LINK	49
103-5128-026	SSS, M6 X 25MM	48
801-0315-001	SLEEVE - PROMECAM 406	47
117-0005-015	HEX NUT, #10-32	46
108-0006-004	BHSCS, 5/16-18 X 3/4" LG	45
105-0074-007	HHCS, #10-32 X 1 1/4" LG	44
204-0002-006	BELT, TIMING #180XL037	43
208-0002-035	SPROCKET, #22XL037	42
101-0003-003	SHCS, #8-32 X 1/2 LG	41
801-0160-003	COVER, END - PROMECAM 2 AXIS	40
108-0084-003	BHSCS, #10-32 X 1/2" LG	39
801-0237-001	SUPPORT, COVER - 2 AXIS PROMECAM	38
801-0027-002	BRACKET, MOTOR MOUNTING	37

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
4	111-0241-001	RIVET, #AD-32-ABS SCOVIL	36
1	703-1001-053	LABEL, INFO. VERTICAL AXIS CONTROL	35
1	001-2009-003	MTE 2-AXIS	34
1	801-2003-004	COVER, FRONT 2 AXIS	33
1	801-0437-001	END CAP AMADA	32
1	801-0426-003	BALL SCREW AMADA/ADIRA	31
1	211-8002-015	BALL NUT, PRELOADED, RP-1105	30
1	001-1275-001	ASSY, ACTUATOR BRACKET	29
1	103-0005-023	SSS, 1/4-20 X 3/8" HALF DOG BRASS PT.	28
4	101-5010-008	SHCS, M8 X 1.25 P X 30 LG	27
1	801-0628-001	ADAPTOR, BEARING CARTRIDGE	26
1	001-1191-001	SPACER, BEARING	25
2	211-9001-001	BEARING, ND#U30204LIA	24
2	608-7001-001	SEAL, NILOS #3204JV	23
1	801-0313-002	BEARING SPACER	22
1	211-0088-002	LOCKWASHER, W04, AFBMA BEARING	21
1	211-0087-002	LOCKNUT, N04 BEARING	20
3	110-0001-007	WASHER, FLAT 5/16"	19
2	101-0006-007	SHCS, 5/16-18 X 1 1/4 LG	18
1	205-0001-004	COUPLING, SIZE 62 5/8 BORE 3/16 K	17
1	801-2003-003	COVER, REAR AB7	16
1	801-0310-002	SHAFT, 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 #807	11
1	208-0002-008	SPROCKET 48XL037	10
1	604-0001-004	SCREW, VLIER #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

CN AB174

REV	DATE	BY	DESCRIPTION
D	13612	JLW	ITEM 56 ADDED
C	13341	JLW	ITEM 55 ADDED
B	12543	DLH	RELEASE

SURFACE TREATMENT: EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0000 ±.0008 .0000 ±.0008 .0000 ±.0008 ANGLULAR ±0.030° BREAK ALL SHARP EDGES

HEAT TREATMENT:

FIRST USED ON: AB7

THIRD ANGLE PROJECTION:

SCALE: 1=1

UNIT OF MEAS.: EA.

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

DESCRIPTION: DRIVE ASSY, ADIRA AB7

DRAWN: GLH	DATE: 1-20-93	CHECKED: KLP	DATE: 1-21-93	APPROVED: JLW	DATE: 2-2-93
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DRIVE ASSY, ADIRA AB7

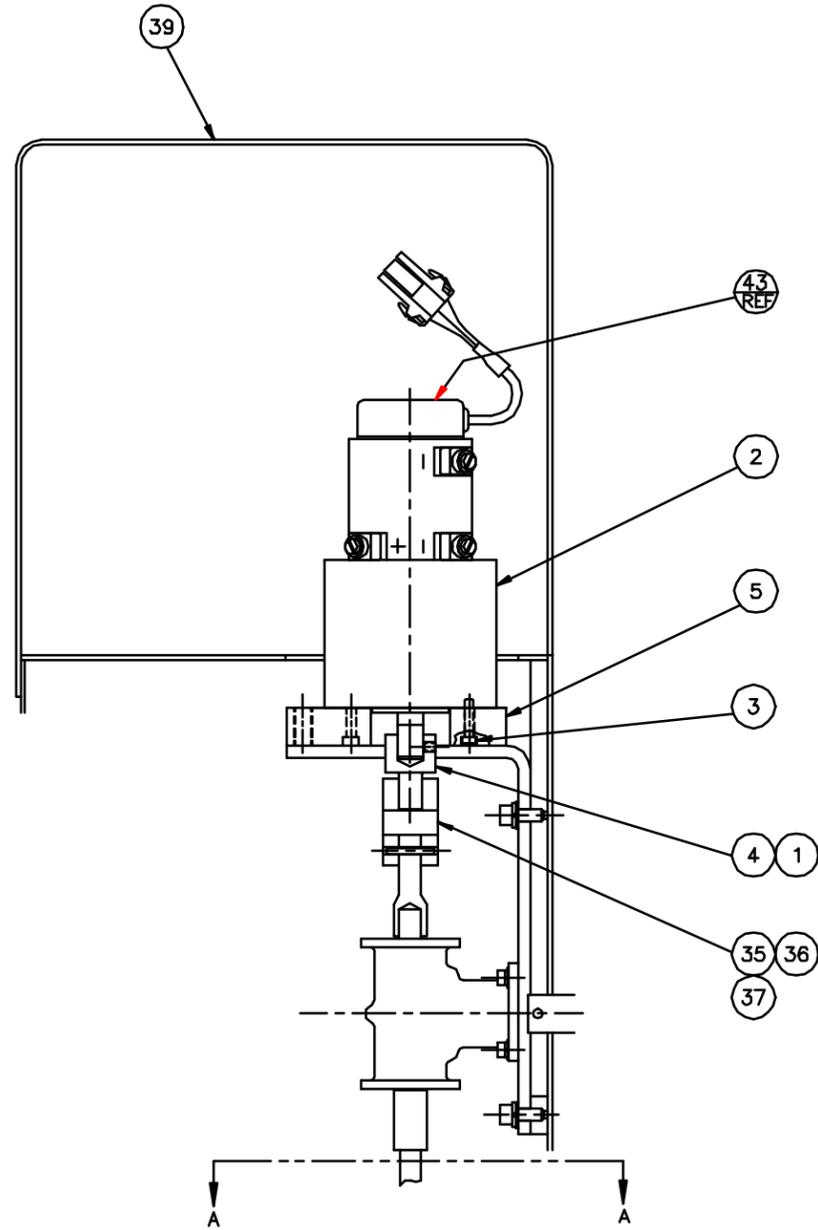
SCALE: 1=1

UNIT OF MEAS.: EA.

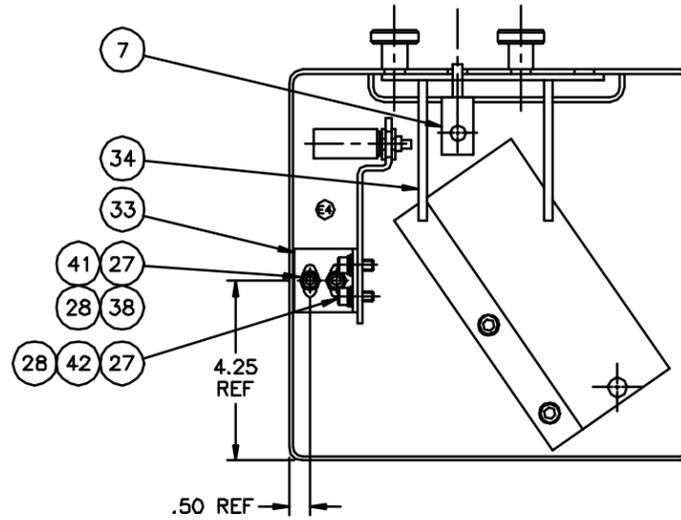
D 001-2006-005

SHI. 1 OF 1 REV.

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VIEW FROM REAR OF PRESS BRAKE



SECTION A-A

NOTES:

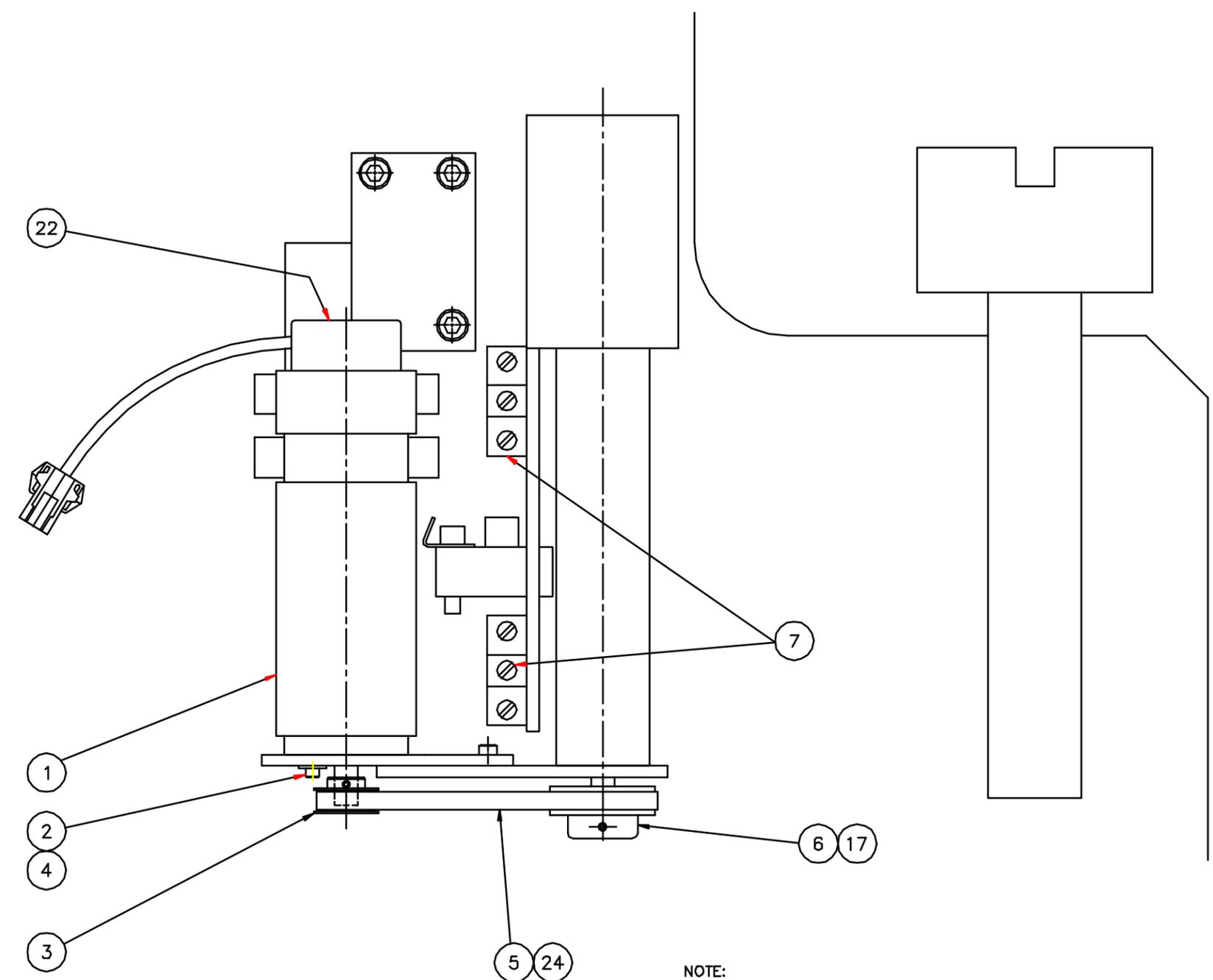
- 1) CONNECT (-) LIMIT SWITCH CABLE OF 423-0201-011 TO SWITCH.
- 2) SPEED OF ROTATION IS 100 TO 150 RPM.
- 3) 1 REVOLUTION = 1MM OF RAM DISPLACEMENT.
- 4) MOTOR SPINS CCW (NEGATIVE) TO CALIBRATE.
- 5) NOTE, ITEMS MARKED WITH \* ARE NOT SHOWN ON ASSEMBLY.

REF	PART NUMBER	ITEM DESCRIPTION	ITEM
F	416-0248-054	ENCODER, 254 LINE DIFF.	43
* 2	101-5008-003	SHCS, M6 X 1.0 P X 12 LG	42
* 2	101-5008-004	SHCS, M6 X 1.0 P X 16 LG	41
* 1	423-0201-011	HARNESS, AB7 Y-AXIS IF	40
* 1	901-0085-003	COVER, KOMATSU MOTOR	39
* 2	117-5013-001	HEX NUT, M6	38
* 1	205-0002-019	COUPLING, L050 X 11 MM BORE	37
* 1	205-0002-020	COUPLING, L050 X 12 MM BORE	36
* 1	205-0002-021	INSERT, L050 COUPLING	35
* 1	801-2002-005	BRACKET, AB7 KOMATSU LS	34
* 1	801-2002-006	BRACKET, AB7 KOMATSU LS MOUNTING	33
* 2	408-8003-001	CORD GRIP, 1/2" (.5 TO .625)	32
* 20	406-5001-006	TIE WRAP, MEDIUM	31
* 30	123-0001-013	SCREW, 1/4-20 HWH	30
* 4	110-5001-005	WASHER, M8 FLAT	29
* (4)	110-5001-004	WASHER, M6 FLAT	28
* (4)	110-0066-011	LOCKWASHER, M6 EXT	27
* 8	110-0046-008	LOCKWASHER, M8 SPRING	26
* 1	103-5128-026	SSS, M6 X 25 LG.	25
* 4	101-5010-007	SHCS, M8 X 25 LG.	24
* 4	101-5008-008	SHCS, M6 X 25 LG.	23
* 6	101-5008-006	SHCS, M6 X 20 LG.	22
* 3	406-3001-052	WIRE MARKER, BRADY WM-1-16-D	21
* 30	406-5001-018	CABLE TIE, X-LARGE SCREW DOWN	20
* 2	707-2001-001	DRILL BIT, 1/8" DIA FRACTION	19
* 1	707-2001-004	DRILL BIT, 15/64" DIA FRACTION	18
* 1	403-0301-005	RELAY, DPDT 10A K10P11D15	17
* 300'	406-1243-006	CABLE, 4 COND 18 GA SHIELDED	16
* 50'	408-0162-001	CONDUIT, ANACONDA/GEDNEY	15
* 2	408-1121-001	CONNECTOR, 1/2" DIA	14
* 2	408-1125-001	1/2 DIA APPLETON #ST4550	13
* 2	408-8002-010	OIL SEAL, 1/2"	12
* 4	408-8501-001	LOCKNUT, 1/2" CONDUIT	11
* 1	614-0002-069	BOX, 25" X 17" X 11 7/8"	10
* 4	101-5007-003	SHCS, M5 X 12 LG.	9
* 1	001-2007-005	ASSY., AB7 JOG INTERFACE	8
* 1	404-5202-012	MICRO SWITCH, BZZRQ181-T	7
* 1	421-0004-008	CLIP, RELAY SPRING	6
* 1	801-0716-002	BRACKET, MOTOR MOUNT	5
* 1	801-0738-002	ADAPTOR, SHAFT 1/2" TO 12MM	4
* 4	101-0003-005	SHCS, 8-32 X 3/4 LG.	3
* 1	001-2009-003	ASSY., MTE 254 LINE DIFF.	2
* 2	103-8002-021	SSS, M5 X 6 LG.	1

REV	DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
F	13612		ADDED ITEM 43			
E	13572		(1) ADDED ITEMS 41 & 42, (2) WAS QTY 4, (3) WAS QTY 10, (4) REVISED DELINEATION			
D	13341		ADDED ITEM 40			
C	13191		ITEM 18 WAS 707-2001-002, QTY 2			
B	13111		(1) WAS QTY 8 & 101-5008-003; (2) ITEM #39 ADDED; (3) WAS 'C' SIZE; (4) WAS QTY 4; (5) WAS QTY 100'			
A	12704		REL			

EXCEPT AS NOTED ALL CORNERS MUST BE AS FOLLOWS	EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE	HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.
INSIDE: .005" X 45° OR .005" R MAX	DECIMAL: ±.0300 ±.0190 ±.0050 ±.0008	
OUTSIDE: .030" X 45° OR .005" R	ANGULAR: ±.030°	DESCRIPTION ASSY., AB7 KOMATSU PHS DRAWN KLP DATE 6-28-83 CHECKED JLW DATE 6-30-83 APPROVED DAB DATE 7-21-83 SCALE NONE UNIT OF MEAS. EA SIZE D DRAWING 001-2006-006 SHY. 1 OF 1 REV.



ENDVIEW OF GUIFIL PRESS BRAKE

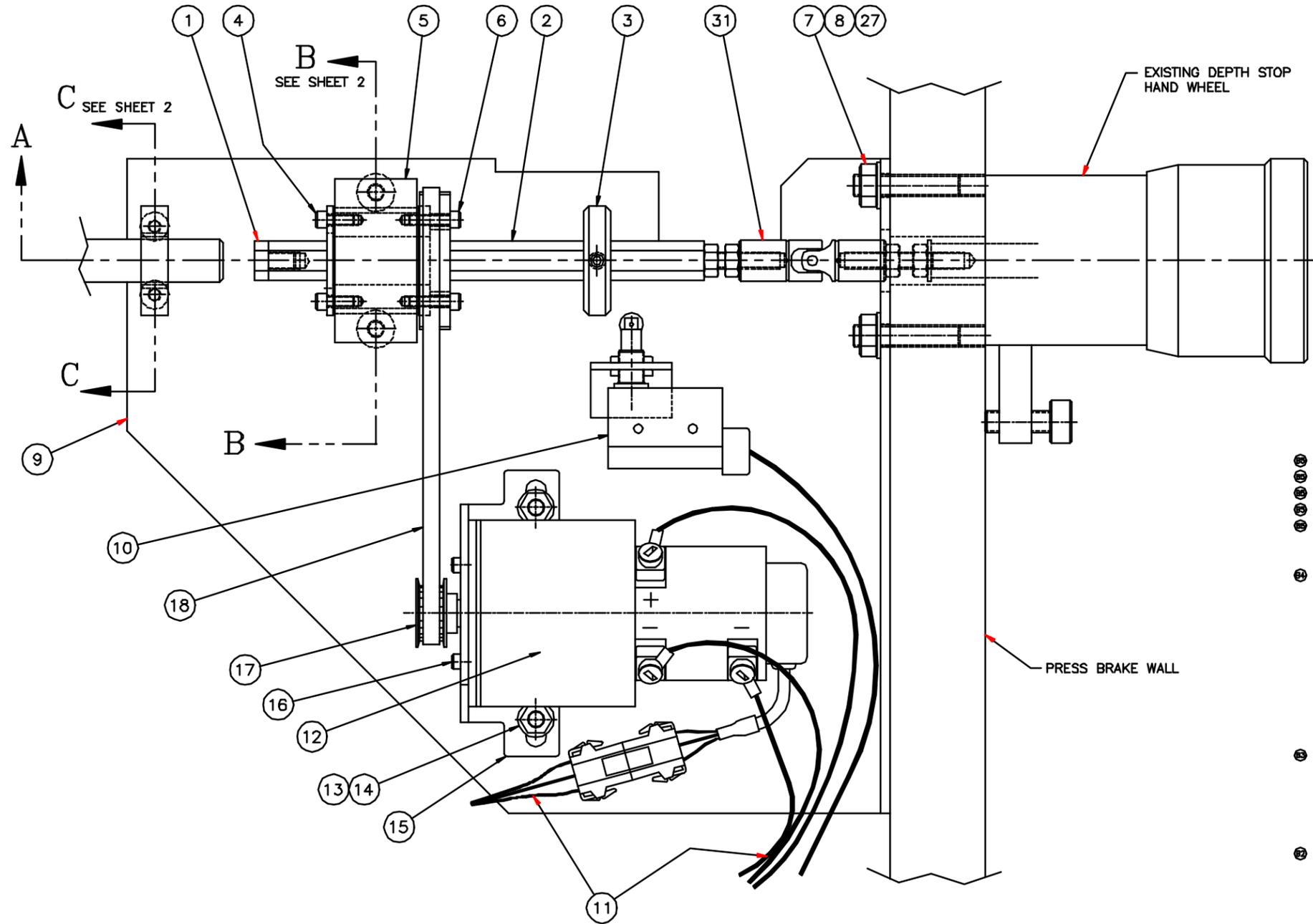
- NOTE:
- ITEMS MARKED WITH \* ARE NOT SHOWN ON ASSEMBLY. THEY ARE USED AT INSTALL AS REQUIRED.
  - ITEM 6 - 40XL037 FOR GUIFIL PE (UPACTING) BRAKE  
 ITEM 17 - 60XL037 FOR GUIFIL HCS (DOWNACTING) BRAKE

QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	1	204-0002-003	TIMING BELT, 150XL037	24
1	-	423-0201-031	HARNESS, AB7 120" Y-AXIS FOR GUIFIL	23
REF	REF	416-0248-064	ENCODER, 500 L, 1/4 SHAFT RENCO (GUIFIL)	22
2	2	408-8501-001	LOCKNUT, 1/2 CONDUIT	21
300*	300*	406-1242-002	CABLE, 18 GA 2 COND. SHIELDED	20
2	2	408-8003-004	SEAL, 1/2 DB3516 CONDUIT	19
2	2	408-8002-010	OIL SEAL 1/2	18
-	1	423-0201-026	HARNESS, AB7 408" Y-AXIS FOR GUIFIL & ADIRA	17
2	2	110-0001-006	FLAT WASHER, 1/4	15
2	2	101-0005-004	SHCS, 1/4-20 X 3/4 LG.	14
2	2	110-5001-004	FLAT WASHER, M8	13
2	2	101-5008-006	SHCS, M6 X 1.0 P X 20 LG.	12
2	2	110-0001-007	FLAT WASHER, 5/16	11
2	2	101-0006-002	SHCS, 5/16-18 X 1/2 LG.	10
2	2	110-5001-005	FLAT WASHER, M8	9
2	2	101-5010-003	SHCS, M8 X 1.25 P X 16 LG.	8
2	2	404-5202-019	LIMIT SWITCH, #Z15GW22-B7-K	7
1	1	801-0826-001	PULLEY, 40XL037 w/ 12 MM BORE	6
1	1	204-0002-005	TIMING BELT, 160XL037	5
4	4	110-0001-001	WASHER, #6 NOM. FLAT	4
1	1	801-0826-005	PULLEY, 20XL037 w/3/8 BORE	3
4	4	101-0002-008	SHCS, #6-32 X 5/8 LG.	2
1	1	001-2009-009	ASSY, QMC IDS2234-MTE3165	1
-009	-008		PARTS LIST	

CN AB906

REV	DATE	BY	CHK	DATE	BY								
E	13990												
D	13903												
C	13842												
B	13651												
B	13651												
A	13422												

EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE	EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE	HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.
INSIDE: .005" X 45° OR .05° R MAX	DECIMAL: ±.0300	DESCRIPTION: ASSEMBLY, GUIFIL-PE 2nd AXIS
OUTSIDE: .030" X 45° OR .05° R	.00 ±.0150	DRAWN: J.L.W.
	.000 ±.0050	DATE: 6-8-95
	ANGULAR: ±.030°	CHECKED: R.J.H.
		DATE: 6-8-95
		APPROVED: J.L.W.
		DATE: 6-8-95
THIRD ANGLE PROJECTION	SCALE: NONE	SIZE: D
EXCEPT AS NOTED: MUST BE AS FOLLOWS	UNIT OF MEAS: EA	DRAWING: 001-2006-008-009
±.12		SH. 1 OF 1

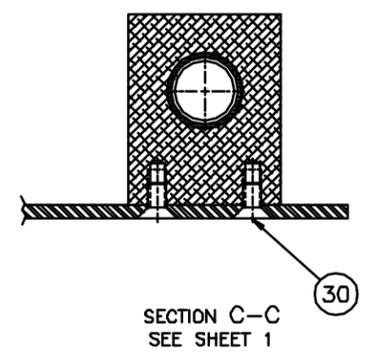
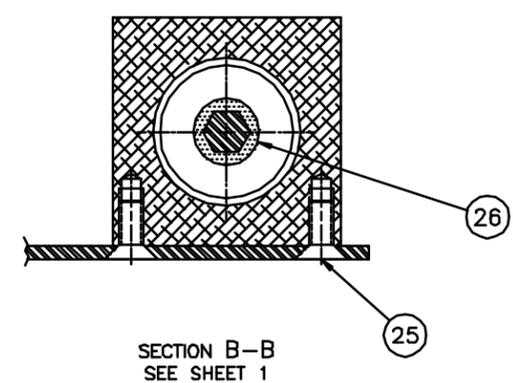
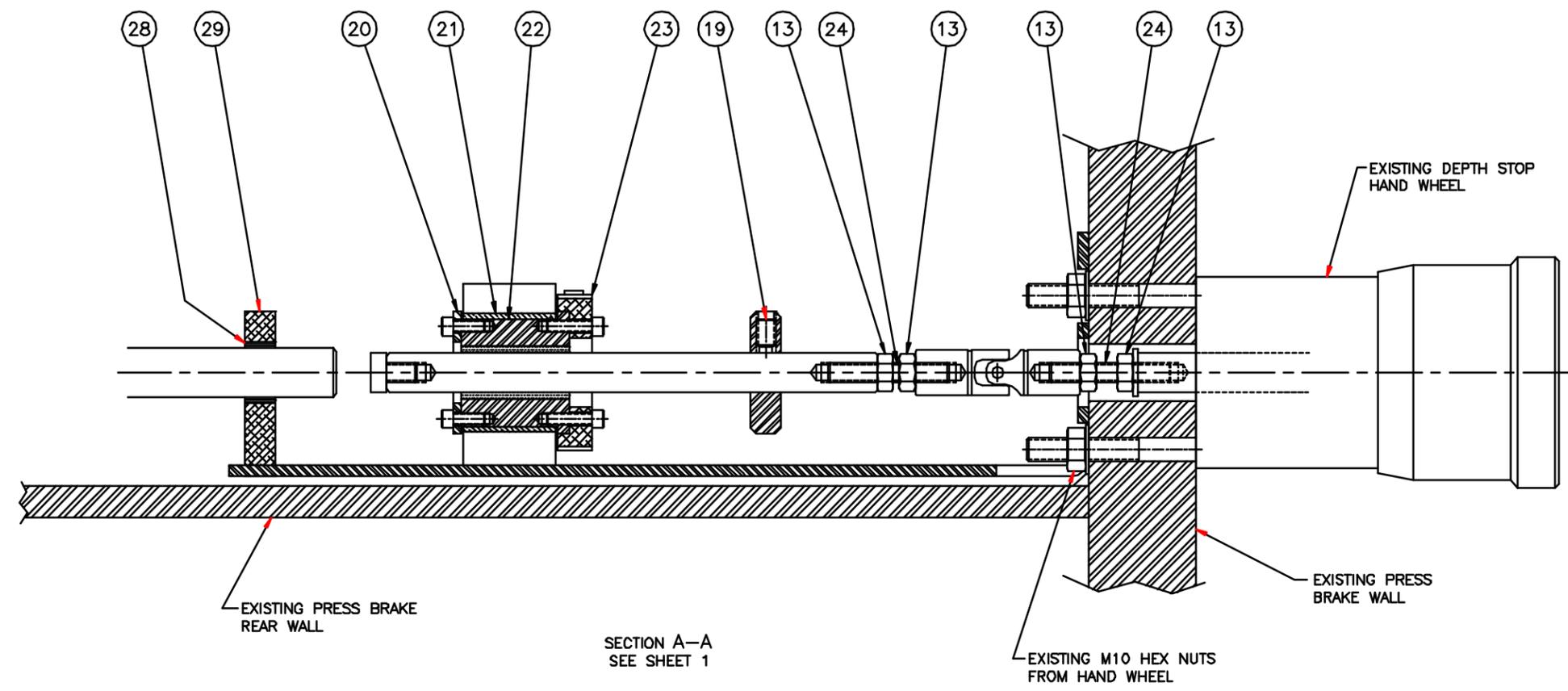


NOTE:  
 1. ITEMS 7, 8 & 27 TO BE USED AT INSTALL.

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	205-5001-007	U-JOINT, 3/4 O.D. W/ M8 END HOLES	31
2	102-5004-003	FHCS, M6 X 1.0 P X 12 LG	30
1	801-2018-005	BLOCK, BEARING	29
1	211-7802-005	BEARING, .875 DIA "IGLIDE"	28
2	117-5016-001	HEX NUT, M10	27
1	211-0036-001	BEARING, HEXAGON	26
2	102-5005-007	FHCS, M8 X 1.25 P X 20 LG	25
2	112-8001-001	THREADED PIN, M8 X 1.25 P X 50 LG	24
1	801-0163-001	PULLEY, PRIMECAM DRIVE	23
1	801-2007-003	BEARING, DRIVE	22
1	211-7802-003	BEARING, 1.75 DIA "IGLIDE"	21
1	801-2021-001	CAP, BEARING	20
1	103-0006-022	SSS, 5/16-18 X 1/2" KNURLED POINT	19
1	204-0002-004	TIMING BELT, 190XL037	18
1	208-0002-002	PULLEY, 20XL037	17
4	101-0043-001	SHCS, #8-32 X 3/8" LG	16
1	801-0641-001	BRACKET, S7 MTE MOUNTING	15
2	110-5001-005	FLAT WASHER, M8	14
6	117-5051-001	HEX NUT, M8	13
1	001-2009-003	MTE, AB7 254 LINE	12
1	423-0201-011	HARNNESS, AB7 Y-AXIS	11
1	404-5202-012	LIMIT SWITCH	10
1	801-2000-011	PLATE, Y-AXIS MOUNTING	9
2	110-0046-009	LOCKWASHER, M10 HELICAL	8
2	103-5010-014	SSS, M10 X 1.5 P X 50 MM LG FLAT POINT	7
4	101-0084-004	SHCS, #10-32 X 3/4"	6
1	801-2018-004	BLOCK, BEARING	5
4	101-0084-002	SHCS, #10-32 X 1/2" LG	4
1	801-1904-001	CELLAR, SHAFT	3
1	801-2020-010	SHAFT, HEX	2
1	801-0374-002	BUTTON, HARDENED SHAFT	1

SURFACE TREATMENT EXCEPT AS NOTED ALL DIMENSIONS MUST BE IN INCHES TOLERANCE DECIMAL INSIDE .007 X .49 DR .008 .0015 .005 R MAX .008 .0008 OUTSIDE .007 X .49 DR .008 .0015 ANGULAR ± 0.30°		HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.	
REVISION DESCRIPTION B 14337 (4) WAS QTY 1 (5) ITEMS 27, 28, 29, 30, 31 ADDED (1) WAS 108-5005-003 (2) WAS 101-5011-002 (3) WAS QTY 4 A 14172 REL		DESCRIPTION ASSY, HURCO PRESS BRAKE Y-AXIS DRAWN J.L.W. DATE 5-4-98 CHECKED R.J.H. DATE 5-7-98 APPROVED J.L.W. DATE 5-8-98 SCALE 1:1 UNIT OF MEAS EA SIZE D DRAWING 001-2006-011 REV. 1 OF 2	

CN  
 AB1098-1

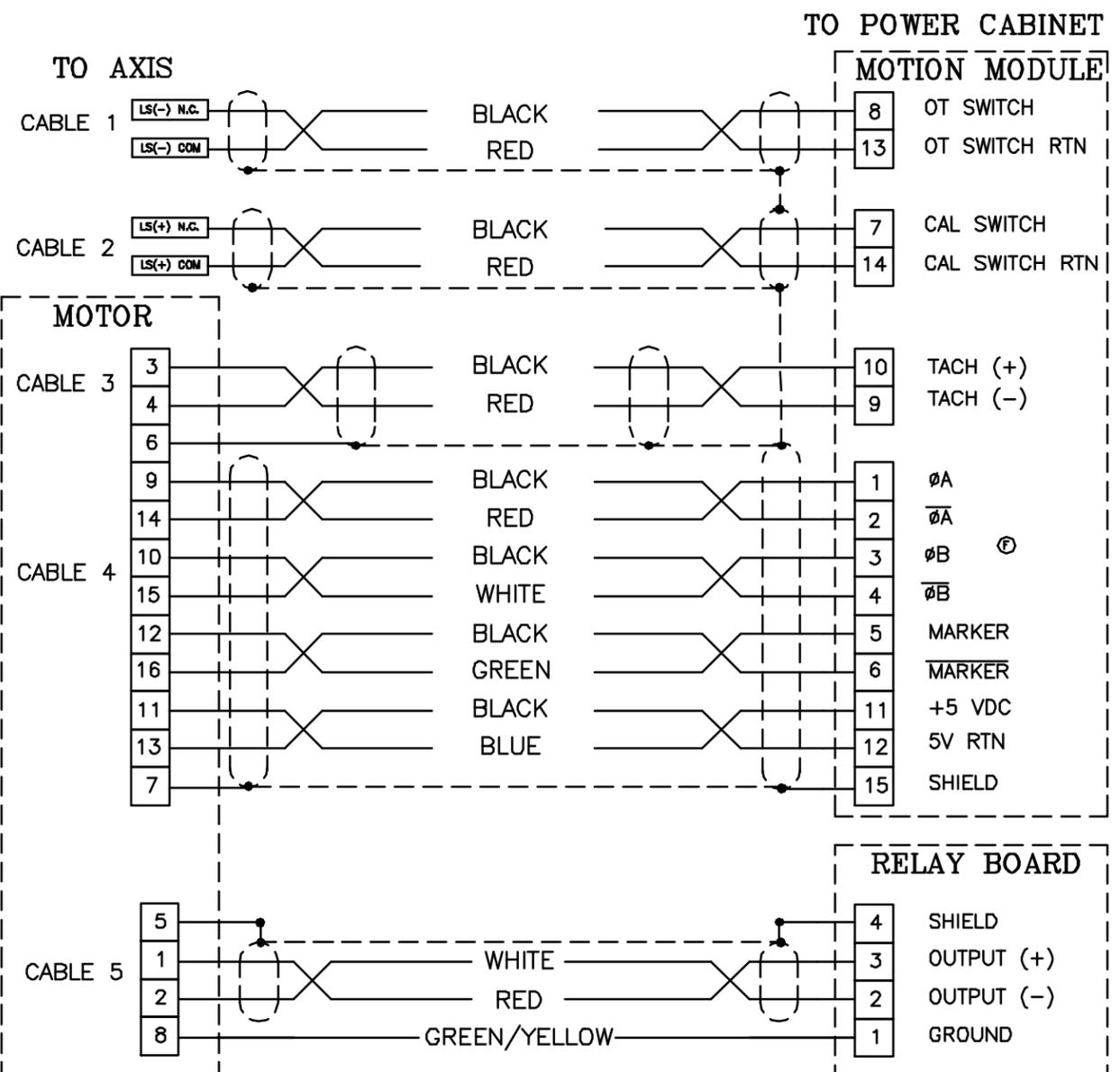
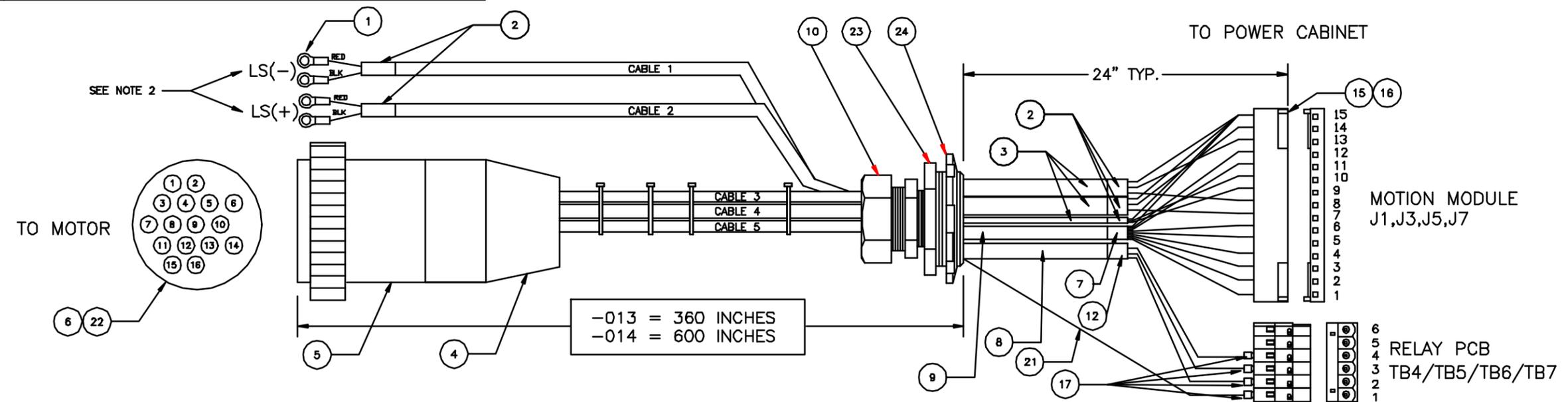


QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
PARTS LIST			
HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.			
DESCRIPTION: ASSY, HURCO PRESS BRAKE Y-AXIS DRAWN: J.L.W. DATE: 5-4-98 CHECKED: R.J.H. DATE: 5-7-98 APPROVED: R.J.H. DATE: 5-8-98 SCALE: 1:1 UNIT OF MEAS: EA SIZE: D DRAWING: 001-2006-011 REV. 2 OF 2			

REV.	DATE	BY	DESCRIPTION
A	14172	REL	

CN  
AB1098-2





NOTES:

1. LABEL HARNESS WITH PART NUMBER AND REVISION LEVEL LETTER.
2. LABEL CONNECTORS AND TERMINALS AS SHOWN.
3. TYPICAL STRIP LENGTH 2 TO 4 INCHES.
4. SOLDER DRAINS OF CABLES 1 THRU 4 TO 2" OF ITEM 13, COVER WITH 2" OF ITEM 14.
5. SOLDER DRAIN OF CABLE 5 TO 2" OF ITEM 11, COVER WITH 2" OF ITEM 14.
6. USE ITEM 20 TO DRESS CABLES, SPACE EVERY 12 INCHES BETWEEN ITEMS 4 AND 10.
7. LENGTHS ARE STRAIGHT LINE +/- 1.0 INCHES.
8. CABLES 1, 2 & 3 ARE ITEM 3. CABLE 4 IS ITEM 9. CABLE 5 IS ITEM 8.

- AXIS #1 = MOTION MODULE J1, RELAY PCB TB4  
 AXIS #2 = MOTION MODULE J3, RELAY PCB TB5  
 AXIS #3 = MOTION MODULE J5, RELAY PCB TB6  
 AXIS #4 = MOTION MODULE J7, RELAY PCB TB7

QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	PC	408-8501-010	LOCK NUT 1 1/4" NPT	24
1	PC	408-1014-012	REDUCER, FEMALE 1 1/4" TO 3/4"	23
13	PC	406-7501-011	SOCKET CONTACT 20-24 AWG GOLD	22
648	IN	406-2005-030	WIRE, 18 AWG GREEN/YELLOW	21
50	PC	406-5001-006	WIRE TIE, MEDIUM	20
1	PC	406-4005-061	CONNECTOR, FEMALE W/LATCHES 6 POS	19
-	PC	406-7501-012	CONTACT, PIN, 24-20 AWG GOLD	18
4	PC	406-0965-004	CRIMP FERRULE, 18 AWG RED	17
1	PC	406-0801-142	CRIMP TERMINAL HOUSING, 15 POS.	16
15	PC	406-0801-135	TERMINAL, CRIMP 22-30 AWG	15
4	IN	406-6481-002	SHRINK TUBE, 1/8" BLACK	14
2	IN	406-1687-010	WIRE, 24 AWG BLACK	13
2	IN	406-6481-004	SHRINK TUBE, 1/4" DIA. BLACK	12
2	IN	406-2005-020	WIRE, 18 AWG BLACK	11
1	PC	408-8003-053	CORD CONNECTOR, 3/4" NPT, .375-.500 I.D.	10
648	IN	406-1328-006	CABLE, 4 PAIR TWISTED 24 AWG	9
648	IN	406-1242-001	CABLE, 1 PAIR TWISTED 18 AWG	8
4	IN	406-6481-005	SHRINK TUBE, 3/8" DIA. BLACK	7
3	PC	406-7501-009	SOCKET, CONTACT 16-18 AWG GOLD	6
1	PC	406-0481-003	PLUG, 16 POSITION CONNECTOR CPC17	5
1	PC	406-7505-003	CLAMP, CONNECTOR CABLE CPC17	4
1944	IN	406-1242-013	CABLE, 1 PR TWISTED 24 AWG	3
6	IN	406-6481-003	SHRINK TUBE, 3/16" DIA. BLACK	2
4	PC	406-7001-025	RING TONGUE, #6 26-22 AWG	1

CN AB497

REV.	DATE	BY	APPROVED	DATE	BY
F	13145				
E	12810				
D	12688				
C	12646				
B	12609				
A	12543				

REVISION DESCRIPTION

DATE

BY

APPROVED

DATE

BY

DESCRIPTION

HARNESS, AB7 MSTOP IF

DRAWN: KLP DATE: 01/18/93 CHECKED: MFC DATE: 01/20/93 APPROVED: DAB DATE: 2/25/93

SCALE: NONE UNIT OF MEAS: PC

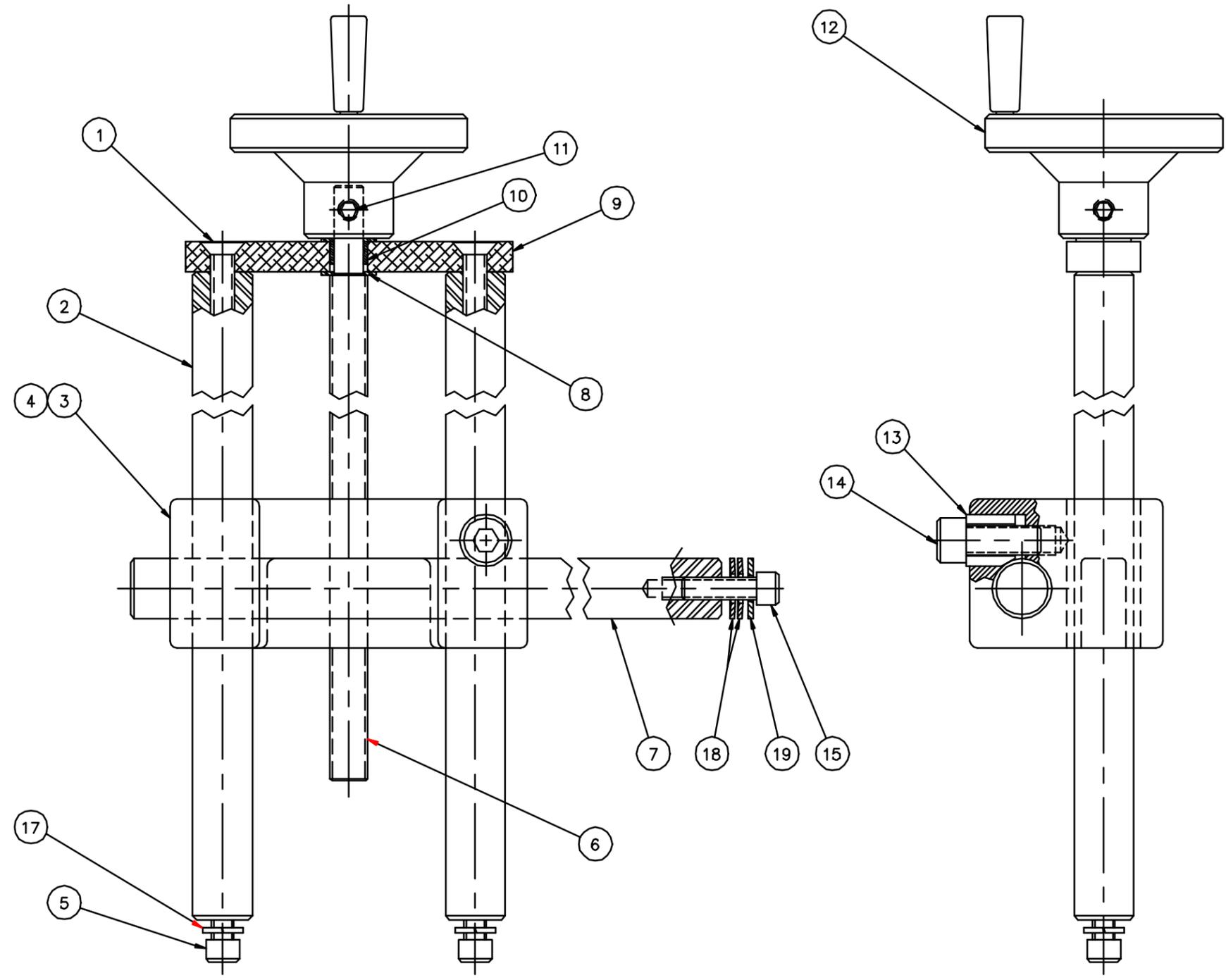
DRAWING: 423-0201-013 SHR. 1 OF 1 REV. 1



**Miscellaneous**

**Miscellaneous**

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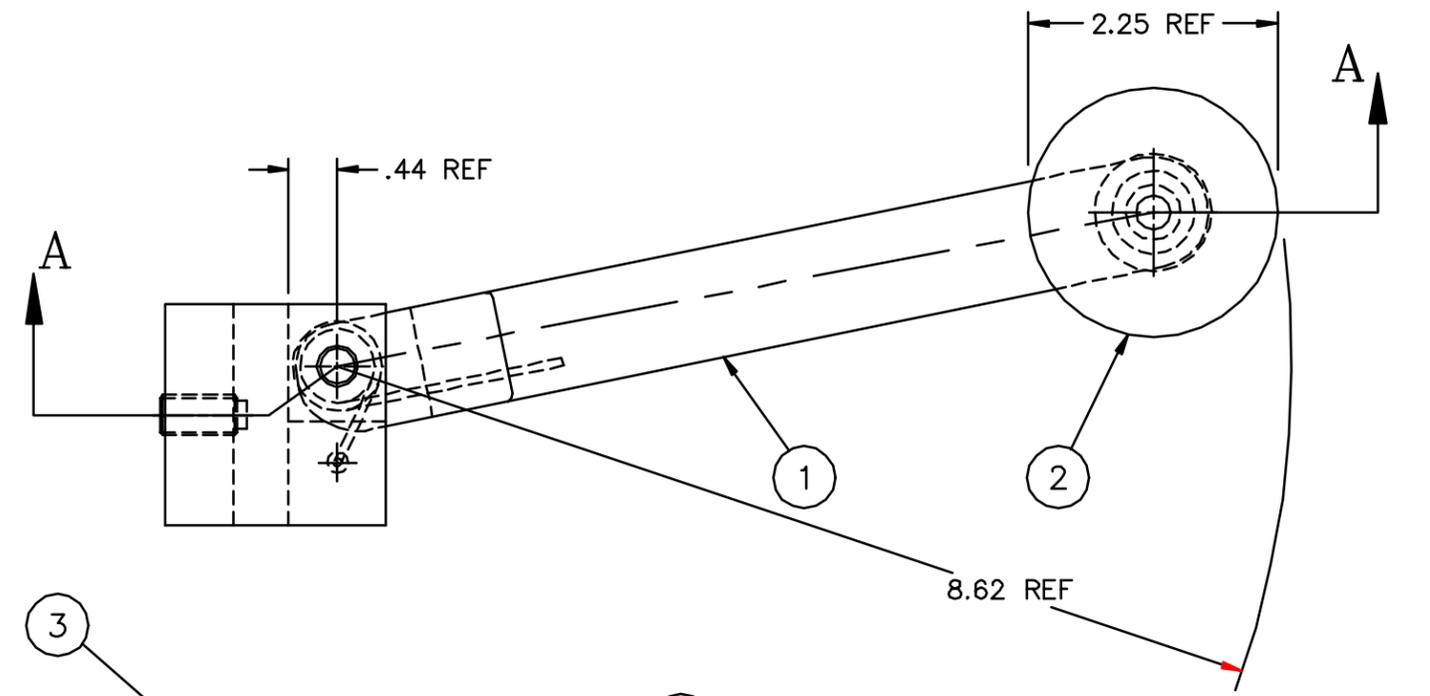


QTY.	QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	1	110-0001-008	WASHER, 3/8" NOM FLAT	19
2	2	605-5001-006	SPRING WASHER, 1/2" BELLEVILLE	18
2	2	110-0042-008	LOCKWASHER, 3/8" SPLIT	17
				16
1	1	101-0007-006	SHCS, 3/8"-16 X 1 1/4 LG	15
1	1	101-0009-007	SHCS, 1/2"-13 X 1 1/2 LG	14
1	1	801-0146-001	LOCK, SHAFT	13
1	1	813-0124-001	HANDWHEEL	12
2	2	103-5165-021	SHSS, MB X 1.25 P X 10 LG CONE PT.	11
1	1	211-7027-002	BEARING-OILITE AA62B-7	10
1	1	813-5012-001	CAP	9
2	2	211-1202-008	THRUST, RACE-TORRINGTON TR	8
1	1	813-5079-001	ROD, 15 1/4" GAUGE BAR SUPPORT	7
1	1	813-5011-001	SCREW, ADJUSTING	6
2	2	101-0007-005	SHCS, 3/8"-16 X 1	5
1	-	801-0145-001	BLOCK, GAUGE BAR SUPPORT, L.H.	4
-	1	801-0145-002	BLOCK, GAUGE BAR SUPPORT, R.H.	3
2	2	813-5083-001	ROD, SUPPORT	2
2	2	102-0007-004	FHSCS, 3/8"-16 X 1	1
QTY. 004	QTY. 003			

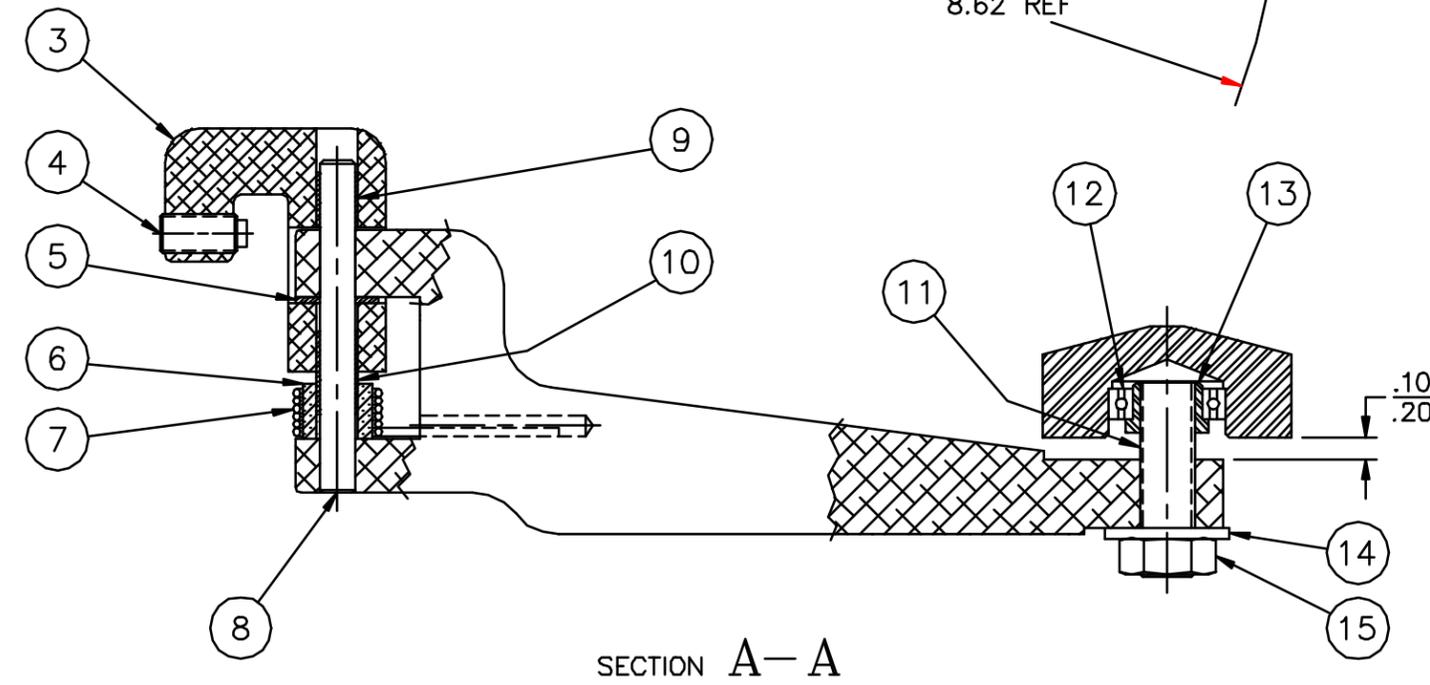
REV	DATE	BY	DATE	BY	DATE	BY	DATE	BY	DATE	DATE	DATE	DATE	DATE
D	14335												
C	13513												
B	13327												
A	13131												

EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE	EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE	HURCO MANUFACTURING COMPANY, INC INDIANAPOLIS, IN U.S.A.	
INSIDE: .005" X 45° OR .05" R MAX	OUTSIDE: .030" X 45° OR .05" R	DECIMAL: ±.0300 .00 ±.0190 .000 ±.0060 0.000 ±.0008 ANGULAR: ±.050°	DESCRIPTION: ASS'Y, VERTICAL SUPPORT
HEAT TREATMENT	HEAT TREATMENT	THIRD ANGLE PROJECTION	SCALE: 1=1 UNIT OF MEAS: EA
001-2010-001			DRAWING: 001-1034-003-004 DATE: 8-23-94 CHECKED: JLW DATE: 8-26-94 APPROVED: JLW DATE: 9-14-94

CN AB59B



NOTE:  
ASSEMBLE ITEM 14 TO ITEM 11 WITH #271 LOCTITE.



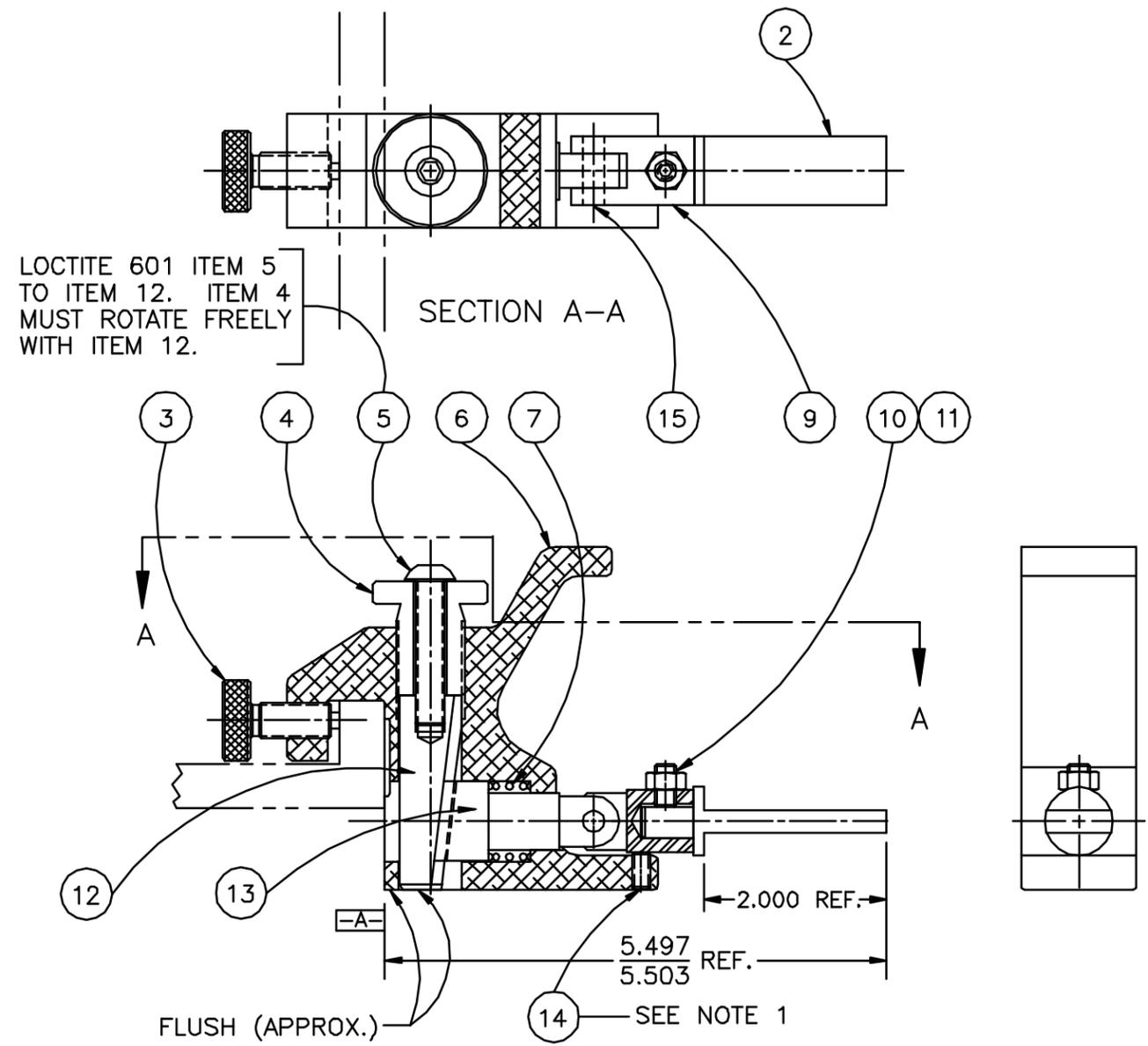
SECTION A-A

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	117-0002-005	HEX NUT, 1/2-13	15
1	110-0002-005	FLAT WASHER, 1/2 NOM ID	14
1	801-0241-001	SHAFT, SUPPORT STOCK BEARING	13
1	211-0015-009	BEARING, MRC B538ZZ	12
1	103-0009-036	SSS, 1/2-13 X 1 3/4" LG	11
REF	211-7016-001	BEARING, OILITE AA-306-6 3/4" LG	10
REF	211-7016-002	BEARING, OILITE AA-306-7 1/2" LG	9
1	112-6001-003	GROOVE PIN, TYPE 24 .312 DIA X 3" LG.	8
1	801-0240-001	SPRING, STOCK SUPPORT	7
1	211-7026-001	BEARING, OILITE AA630-11 X 1/2" LG.	6
1	211-7203-002	BEARING, THRUST 3/8" ID	5
1	604-0821-001	CLAMP, SWIVEL PAD	4
1	801-0239-001	SUPPORT, STOCK MOUNTING	3
1	801-0242-002	WHEEL, 2 1/4" DIA	2
1	801-0238-001	SWING ARM	1

REV	P.L.N. NO.	REVISION DESCRIPTION	REV	DATE	CHK BY	DATE	APP BY	DATE	DF
E	14743	REDRAWN TO CAD WITHOUT CHANGES	JW	8/24/99	SD	8/25/99	JW	8/25/99	

SURFACE TREATMENT ~	EXCEPT AS NOTED: ALL CORNERS MUST BE AS FOLLOWS INSIDE: .050" X 45° OR .05" R MAX OUTSIDE: .030" X 45° OR .05" R	EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 ±.0300 .00 ±.0150 .000 ±.0050 .0000 ±.0005 ANGULAR ± 0'30"	<p align="center">HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.</p>					
HEAT TREATMENT ~	FIRST USED ON	<p>DESCRIPTION ASSY, STOCK SUPPORT</p> <table border="1"> <tr> <td>DRAWN STRANG</td> <td>DATE 6/28/79</td> <td>CHECKED G.B.</td> <td>DATE 6/30/79</td> <td>APPROVED J.N.</td> <td>DATE 7/79</td> </tr> </table>		DRAWN STRANG	DATE 6/28/79	CHECKED G.B.	DATE 6/30/79	APPROVED J.N.
DRAWN STRANG	DATE 6/28/79	CHECKED G.B.	DATE 6/30/79	APPROVED J.N.	DATE 7/79			
AUTOBEND	EXCEPT AS NOTED: WELDING TOLERANCE MUST BE AS FOLLOWS ±.12	THIRD ANGLE PROJECTION	<p>SCALE 1:1</p> <p>UNIT OF MEAS. EA</p> <p>SIZE C</p> <p>DRAWING 001-1146-001</p> <p>SHT. 1 OF 1</p> <p>REV. E</p>					

SIZE <b>C</b>	DRAWING 001-1425-004	SHT. 1 OF 1	REV. 1	<p align="center">PROPRIETARY INFORMATION</p> <p align="center">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.</p>
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- NOTES:
- ADJUST ITEM #14 UNTIL ITEM #2 IS PERPENDICULAR WITH DATUM -A- WITHIN +/- .010.
  - LUBRICATE ITEMS 2, 3, 4, 6, 7, 9, 12, AND 13 WITH NOOK BEARING LUBRICANT OR EQUIV. BEFORE ASSEMBLY.

QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
		PARTS LIST	
1	112-0003-003	DOWEL PIN, 1/4" DIA X 3/4" LG	15
1	103-5127-020	SSS, M5 X 0.8P X 10 LG. DOG PT.	14
1	801-0656-004	PIVOT	13
1	801-0655-003	WEDGE, FINGER ADJUSTING	12
1	117-5013-001	HEX NUT, M6 X 1.0P	11
1	103-8004-004	SSS, M6 X 1.0P X 12 LG. CUP PT.	10
1	801-0747-003	FINGER SOCKET	9
			8
1	605-7044-001	SPRING, .850 DIA X .081 WIRE X .75 LG.	7
1	801-0661-004	BODY, PIVOT FINGER	6
1	108-5005-008	BHSCS, M8 X 1.25P X 40 LG.	5
1	801-0658-001	SCREW, FINGER ADJUSTING	4
1	801-0748-002	SCREW, M10 LOCKING	3
1	801-0761-005	FINGER	2
			1

REV	P.J.N. NO.	REVISION DESCRIPTION	REV BY	DATE	CHK BY	DATE	APP BY	DATE	DF
C	13547	(1) WAS 115-5001-002 QTY 1, (2) ADDED ITEM 15	GLH	12/13/92	JLW	12/13/92			
B	12562	1) WAS 117-5012-001; (2) WAS 115-5001-003	JW	1-30-92	RH	1-30-92	HP	2-18-92	
A	11934	RELEASED							

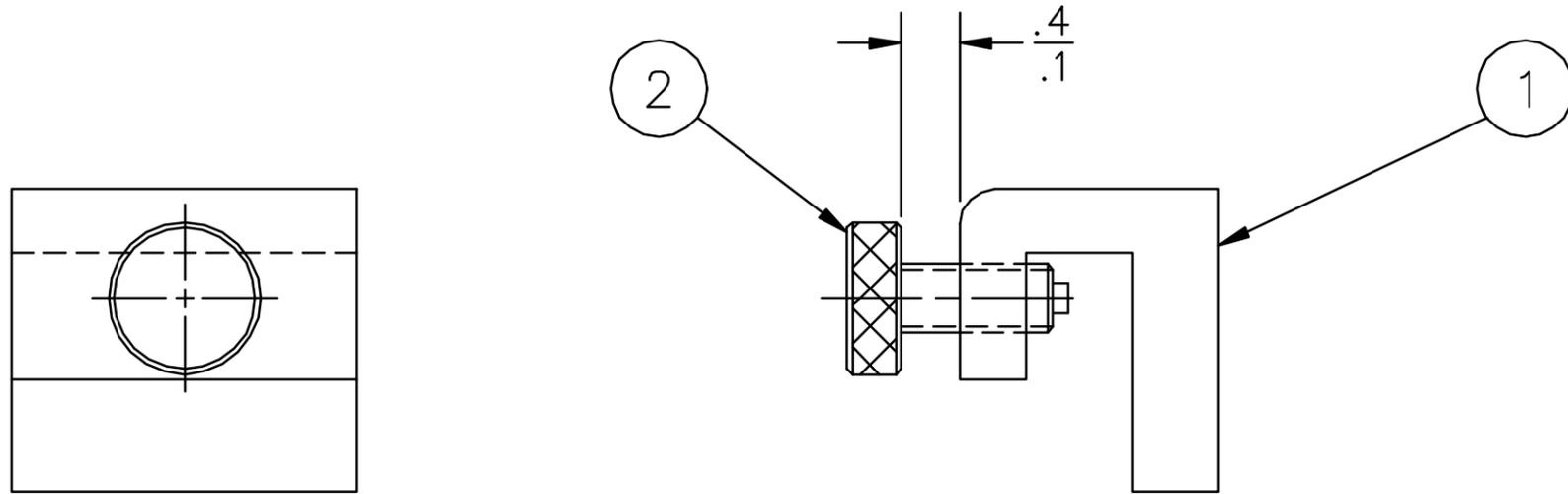
SURFACE TREATMENT	EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE	<b>HURCO MANUFACTURING COMPANY, INC.</b> INDIANAPOLIS, IN U.S.A.	
HEAT TREATMENT	DECIMAL .0      ? 0.0300 .00    ? 0.0150 .000   ? 0.0050 .0000 ? 0.0025 ANGULAR ? 0°30' BREAK ALL SHARP EDGES	DESCRIPTION <b>ASSEMBLY, ADJUSTABLE PIVOT FINGER</b>	
FIRST USED ON	THIRD ANGLE PROJECTION	SCALE	SIZE
S6, S7, S8		1=1	C
		UNIT OF MEAS	DRAWING
		PC	001-1425-004
		SHT.	REV.
		1	1
		OF	
		1	

CN  
AB061



SIZE B DRAWING 001-1479-999 SH1 OF 1 REV. D

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NOTES:  
 ITEM 2 TO BE INSTALLED INTO ITEM 1 TO DEPTH SHOWN.

1	801-0748-002	SCREW, LOCKING, M10 X .88 LG.	2
1	801-0677-001	GAUGE BLOCK	1
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM

REV	DATE	BY	CHK	DATE	APP	DATE	DF
D	14743	JW	8/23/88	SD	8/24/88	JW	8/23/88
REDRAWN TO CAD WITH NO CHANGES							
REVISION DESCRIPTION							

SURFACE TREATMENT	EXCEPT AS NOTED, ALL CORNERS MUST BE AS FOLLOWS	EXCEPT AS NOTED, ALL DIMENSIONS IN INCHES TOLERANCE
HEAT TREATMENT	INSIDE: .050" X 45° DR .05" R MAX OUTSIDE: .030" X 45° DR .05" R	DECIMAL: .0 ±.0300 .00 ±.0150 .000 ±.0050 ANGULAR ± 0°30'
FIRST USED ON	EXCEPT AS NOTED, WELDING TOLERANCE MUST BE AS FOLLOWS ±.12	THIRD ANGLE PROJECTION
AB5		

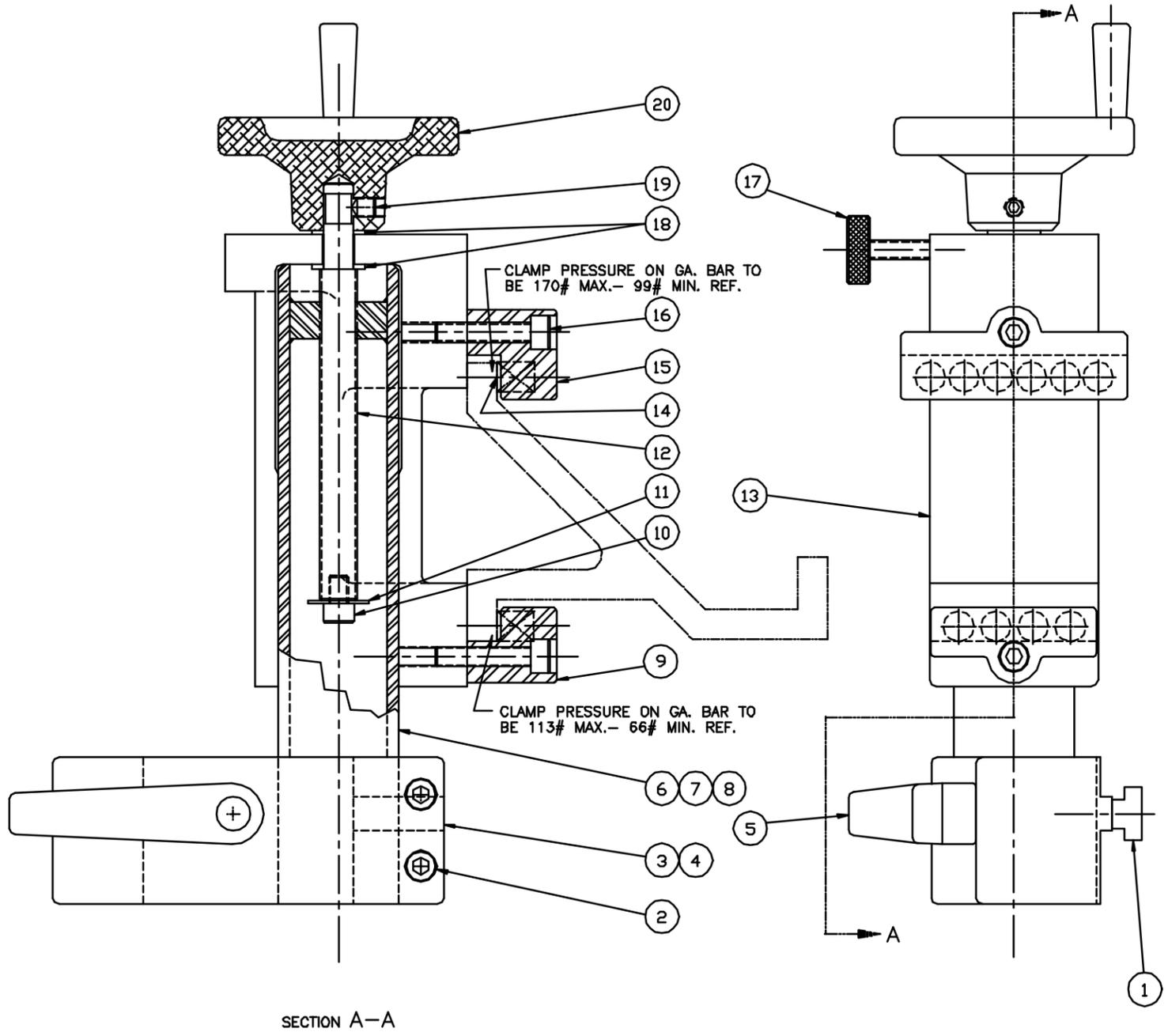
**HURCO** HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.

DESCRIPTION: ASSY, GAUGE BLOCK/SCREW

DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
RMA	31JUL84	G.B.	31JUL84	G.B.	31JUL84

SCALE: 1:1  
 UNIT OF MEAS: EA.  
 SIZE: B  
 DRAWING: 001-1479-999  
 SH1 OF 1 REV. D

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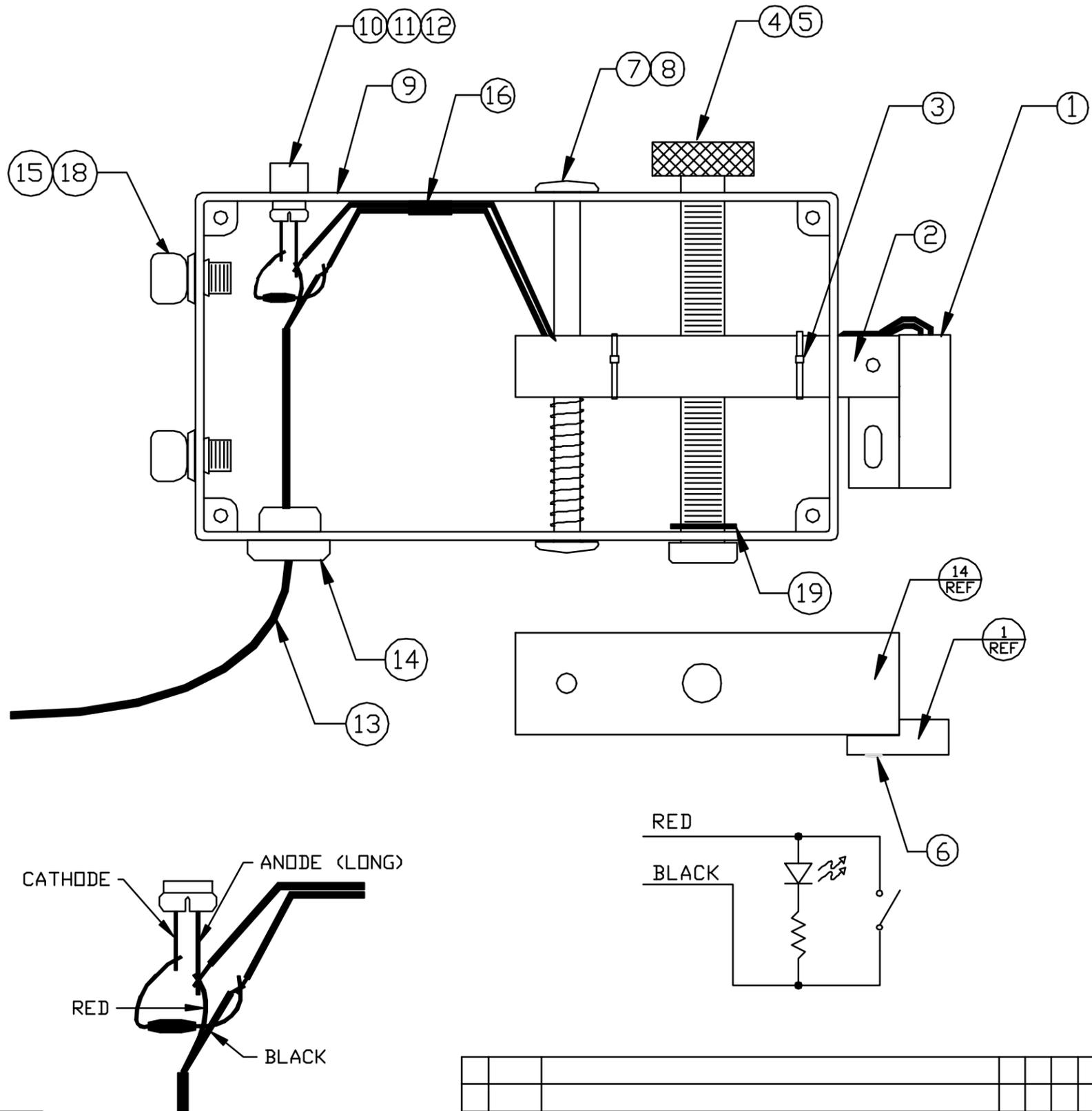


NOTE:  
 (1) 001 & 002 ARE 11" VERTICAL ADJUST TUBES  
 003 & 004 ARE 18" VERTICAL ADJUST TUBES  
 005 & 006 ARE 24" VERTICAL ADJUST TUBES

QTY	QTY	QTY	QTY	QTY	QTY	PART NUMBER	ITEM DESCRIPTION	ITEM
1	1	1	1	1	1	813-0124-001	HANDWHEEL	20
2	2	2	2	2	2	103-5165-021	SHSS, 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	805-0071-003	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			

CN AB044

SURFACE TREATMENT EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 .01 .03 .05 .07 .10 .15 .20 .30 .50 1.00 2.00 3.00 4.00 5.00 6.00 8.00 10.00 15.00 20.00 30.00 40.00 50.00 60.00 80.00 100.00 150.00 200.00 300.00 400.00 500.00 600.00 800.00 1000.00 1500.00 2000.00 3000.00 4000.00 5000.00 6000.00 8000.00 10000.00 15000.00 20000.00 30000.00 40000.00 50000.00 60000.00 80000.00 100000.00 150000.00 200000.00 300000.00 400000.00 500000.00 600000.00 800000.00 1000000.00 1500000.00 2000000.00 3000000.00 4000000.00 5000000.00 6000000.00 8000000.00 10000000.00 15000000.00 20000000.00 30000000.00 40000000.00 50000000.00 60000000.00 80000000.00 100000000.00 150000000.00 200000000.00 300000000.00 400000000.00 500000000.00 600000000.00 800000000.00 1000000000.00 1500000000.00 2000000000.00 3000000000.00 4000000000.00 5000000000.00 6000000000.00 8000000000.00 10000000000.00 15000000000.00 20000000000.00 30000000000.00 40000000000.00 50000000000.00 60000000000.00 80000000000.00 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8000000000000000000000000000000000000000.00 100.00 15000000000000000000000000000000000000000.00 200.00 300.00 400.00 500.00 600.00 800.00 1000.00 1500.00 2000.00 3000.00 4000.00 5000.00 6000.00 
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- 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.

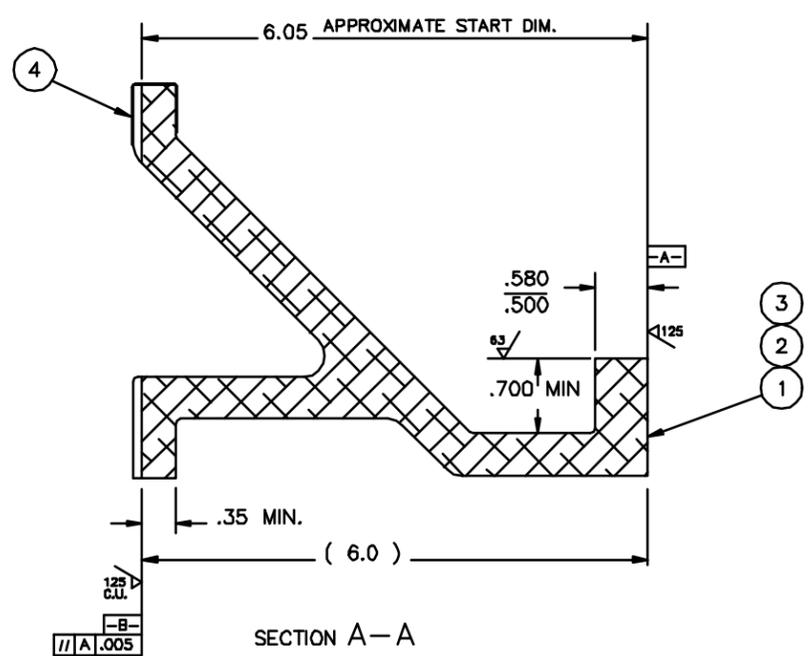
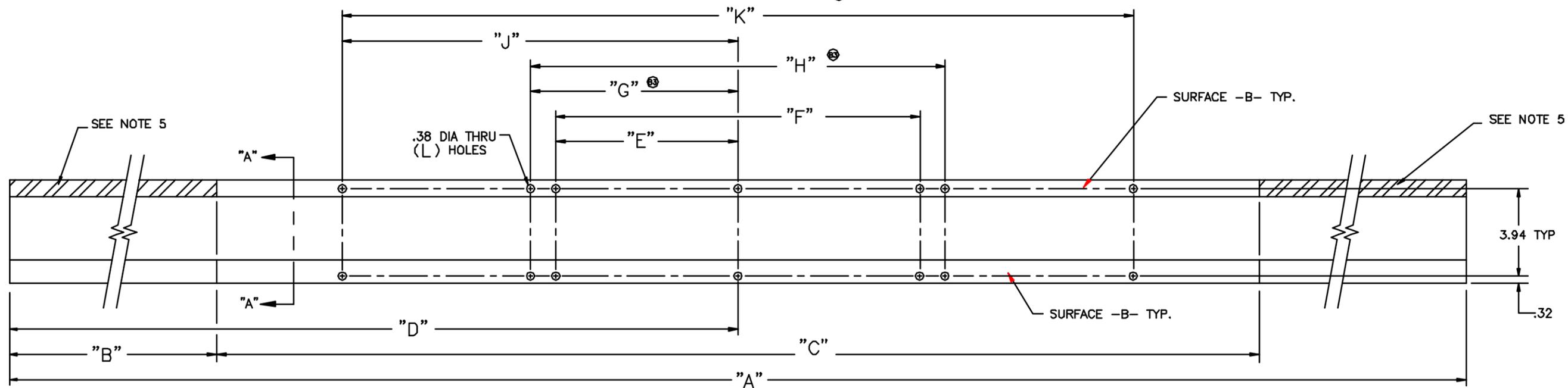
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM
1	418-5001-009	ACTUATOR, MAGNETIC	REF
1	408-7501-048	E-CLIP, RETAINER RING, 5/16"	19
2	117-1002-002	NUTSERT, M5	18
3"	406-6481-003	SHRINK WRAP, 3/16" BLACK	17
1	406-5001-023	CORD CLIP, ADHESIVE BACKED	16
2	604-0003-002	THUMB SCREW, 10-32 X 1/2"	15
1	406-0530-003	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	FHSCS, 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

SURFACE TREATMENT		EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0        ? .0300 .00      ? .0150 .000     ? .0050 .0000   ? .0005 ANGULAR ? 0730' BREAK ALL SHARP EDGES	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.					
HEAT TREATMENT								
FIRST USED ON		DESCRIPTION	DRAWN	DATE	CHECKED	DATE	APPROVED	DATE
AB5C		ASSY, RETRACT @ PINCHPOINT	A.E.T.	17AUG92	A.E.T.	04SEP92		
THIRD ANGLE PROJECTION		SCALE	SIZE	DRAWING		SHT.	REV.	
		N/A	B	001-1529-003		1		
		UNIT OF MEAS				OF		
		EA.				1		

CN  
AB478

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

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DATA BLOCK

ITEM	LENGTH "A"	DIM B	DIM C	DIM D	DIM E	DIM F	DIM G	DIM H	DIM J	DIM K	L	GAUGE
-001	36" (3'-0")	1.25	33.50	18.00	7.25	14.50	8.25	16.50	15.75	31.50	14	S6/S7
-002	42" (3'-6")	4.25	33.50	21.00	7.25	14.50	8.25	16.50	15.75	31.50	14	S6/S7
-003	48" (4'-0")	7.25	33.50	24.00	7.25	14.50	8.25	16.50	15.75	31.50	14	S6/S7
-004	54" (4'-6")	6.25	41.50	27.00	7.25	14.50	8.25	16.50	15.75	31.50	14	S6/S7
-005	60" (5'-0")	9.25	41.50	30.00	7.25	14.50	8.25	16.50	15.75	31.50	14	S6/S7
-006	66" (5'-6")	12.25	41.50	33.00	7.25	14.50	8.25	16.50	15.75	31.50	14	S6/S7
-007	72" (6'-0")	15.25	41.50	36.00	7.25	14.50	8.25	16.50	15.75	31.50	14	S6/S7
-008	78" (6'-6")	18.25	41.50	39.00	7.25	14.50	8.25	16.50	15.75	31.50	14	S6/S7
-009	84" (7'-0")	21.25	41.50	42.00	7.25	14.50	8.25	16.50	15.75	31.50	14	S6/S7
-010	90" (7'-6")	24.25	41.50	45.00	7.25	14.50	8.25	16.50	15.75	31.50	14	S6/S7
-011	96" (8'-0")	27.25	41.50	48.00	7.25	14.50	8.25	16.50	15.75	31.50	14	S6/S7
-012	102" (8'-6")	30.25	41.50	51.00	-	-	-	-	15.75	31.50	6	S7
-013	108" (9'-0")	33.25	41.50	54.00	-	-	-	-	15.75	31.50	6	S7
-014	114" (9'-6")	36.25	41.50	57.00	-	-	-	-	15.75	31.50	6	S7
-015	120" (10'-0")	39.25	41.50	60.00	-	-	-	-	15.75	31.50	6	S7
-016	126" (10'-6")	42.25	41.50	63.00	-	-	-	-	15.75	31.50	6	S7
-017	132" (11'-0")	45.25	41.50	66.00	-	-	-	-	15.75	31.50	6	S7
-018	138" (11'-6")	48.25	41.50	69.00	-	-	-	-	15.75	31.50	6	S7
-020	30" (2'-6")	2.25	25.50	15.00	7.25	14.50	8.25	16.50	-	-	10	S6
-021	144" (12'-0")	51.25	41.50	72.00	-	-	-	-	15.75	31.50	6	S7
-022	150" (12'-6")	54.25	41.50	75.00	-	-	-	-	15.75	31.50	6	S7
-023	156" (13'-0")	57.25	41.50	78.00	-	-	-	-	15.75	31.50	6	S7
-024	162" (13'-6")	60.25	41.50	81.00	-	-	-	-	15.75	31.50	6	S7
-025	168" (14'-0")	63.25	41.50	84.00	-	-	-	-	15.75	31.50	6	S7

- NOTES:
- 1.) WHEN MACHINING SURFACE -A- SHIM UNDER CLAMPS.
  - 2.) SURFACE "A" STRAIGHT WITHIN .010 TOTAL.
  - 3.) SURFACE "A" STRAIGHT WITHIN .001 PER FOOT.
  - 4.) SURFACE "B" TO BE REGARDED SEPARATELY.
  - 5.) DIM IS TOTAL LENGTH OF SAFETY STRIPE REQUIRED. DIM D IN SECTIONS TO BE APPLIED TO UNFINISHED AREAS OF THE GAUGE BAR AS SHOWN.
  - 6.) WHEN GAUGE BAR IS CLAMPED AT SURFACE -B-, SURFACE -A- TO BE PERPENDICULAR TO TABLE WITHIN .005.

SEE NOTE 5

10.5'	10.0'	9.5'	9.0'	8.5'	.4'	8.0'	7.5'	7.0'	6.5'	6.0'	5.5'	5.0'	4.5'	4.0'	3.5'	3.0'	2.5'	2.0'	1.5'	1.0'	1.2'	.7'	.2'	703-0003-009	TAPE, WARNING STRIPE	4
-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	-	-	-	-	801-0654-805	EXTRUSION, 114" ALUMINUM GAUGE BAR	3
-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	-	-	-	-	801-0654-801	EXTRUSION, 90" ALUMINUM GAUGE BAR	2
"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	"A"	801-0654-000	EXTRUSION, ALUMINUM GAUGE BAR	1
QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	QTY.	PARTS LIST		
-025	-024	-023	-022	-021	-020	-018	-017	-016	-015	-014	-013	-012	-011	-010	-009	-008	-007	-006	-005	-004	-003	-002	-001	ITEM DESCRIPTION		
																								REVISIONS		

CN AB695

REVISIONS

REV	DATE	BY	DESCRIPTION
1	JUL 16 1996	RJH	REMOVED 801-0816-018; (1) QTY. CHANGED; (2) REDRAWN; (3) REVISED DIMENSIONING; (4) HOLES ADDED; (5) CHART REVISED

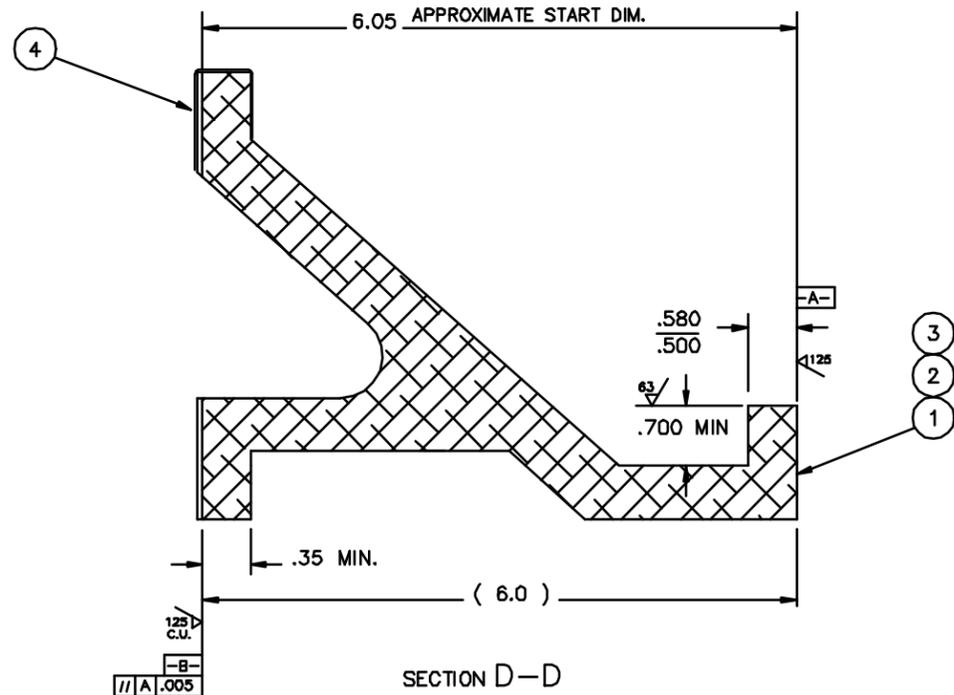
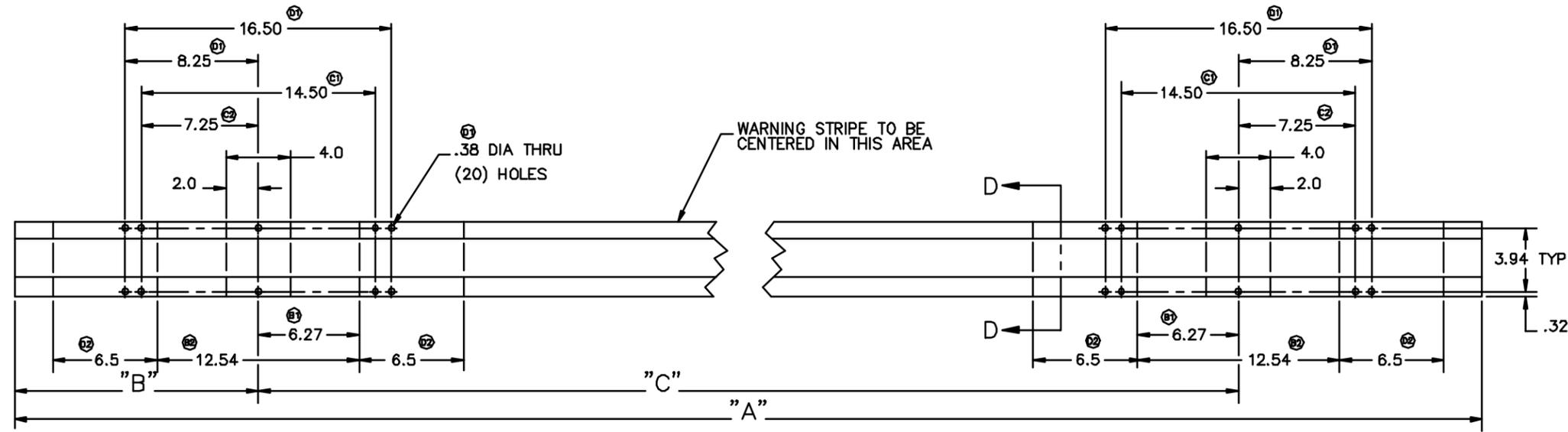
SURFACE TREATMENT: 
 HEAT TREATMENT: 
 FIRST USED ON:

EXCEPT AS NOTED ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL  
 .000 ±.0100  
 .000 ±.0020  
 .0000 ±.0005  
 ANGULAR ± .030°  
 BREAK ALL SHARP EDGES  
 THIRD ANGLE PROJECTION  
 SCALE NONE  
 UNIT OF MEAS PC

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

DESCRIPTION: GAUGE BAR, STD. "Y" SECTION S6/S7  
 DRAWN: JLW DATE: 8-16-96  
 CHECKED: RJH DATE: 8-20-96  
 APPROVED: [Signature] DATE: [Blank]  
 SIZE: D  
 DRAWING: 801-0910-001 THRU 025  
 SHI. 1 OF 1 REV.

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PART LIST ITEMS

ITEM	LENGTH "A"	DIM B	DIM C
-026	90" (7'-6")	15.12	59.75
-027	96" (8'-0")	18.12	59.75
-028	102" (8'-6")	16.12	69.75
-029	108" (9'-0")	15.12	77.75
-030	114" (9'-6")	18.12	77.75
-031	120" (10'-0")	16.12	87.75
-032	126" (10'-6")	19.12	87.75
-033	132" (11'-0")	15.12	101.75
-034	138" (11'-6")	18.12	101.75
-035	144" (12'-0")	21.12	101.75
-036	150" (12'-6")	24.12	101.75
-037	156" (13'-0")	19.12	117.75
-038	162" (13'-6")	22.12	117.75
-039	168" (14'-0")	25.12	117.75

NOTES:

- 1.) WHEN MACHINING SURFACE -A- SHIM UNDER CLAMPS.
- 2.) SURFACE "A" STRAIGHT WITHIN .010 TOTAL.
- 3.) SURFACE "A" STRAIGHT WITHIN .001 PER FOOT.
- 4.) SURFACE "B" TO BE REGARDED SEPARATELY.
- 5.) WHEN GAUGE BAR IS CLAMPED AT SURFACE -B-, SURFACE -A- TO BE PERPENDICULAR TO TABLE WITHIN .005.

NOT SHOWN

2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	614-0002-046	END CAP & FILLER, 33 X 17 5/8 350#	9
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	614-0002-045	WRAP COLLAR, 26 3/16 X 6 350# D.W.	8
2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	614-0002-051	CARDBOARD SPACER, 6" GAUGE BAR	7
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	614-0002-042	CART BRD, 54 1/8 X 144 350# D.W.	6
1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	614-0002-044	CARDBOARD, 54 1/8 X 90" DW 350	5
7.7'	7.7'	7.7'	6.3'	6.3'	6.3'	6.3'	5.2'	5.2'	4.3'	4.3'	3.7'	2.8'	2.8'	703-0003-009	TAPE, WARNING STRIPE	4	
-	-	-	-	-	-	-	-	-	1	-	-	-	-	-	801-0654-805	EXTRUSION, 114" ALUMINUM GAUGE BAR	3
-	-	-	-	-	-	-	-	-	-	-	-	-	-	1	801-0654-801	EXTRUSION, 90" ALUMINUM GAUGE BAR	2
"A"	-	801-0654-000	EXTRUSION, ALUMINUM GAUGE BAR	1													
QTY.	PART NUMBER	ITEM DESCRIPTION	ITEM														

SURFACE TREATMENT ~ REAT TREATMENT ~ FIRST USED ON S8	EXCEPT AS NOTED: ALL DIMENSIONS IN INCHES TOLERANCE DECIMAL .0 0.0300 .00 0.0180 .000 0.0050 .0000 0.0005 ANGULAR 1/2° 30' BREAK ALL SHARP EDGES	HURCO MANUFACTURING COMPANY, INC. INDIANAPOLIS, IN U.S.A.
D 13800 1) ADDED 8 HOLES; (2) WAS 6 Q; (3) REMOVED PART NO -040 THRU -046 C 13214 1) WAS 14.54; (2) WAS 7.27 B 12516 1) WAS 6.1; (2) WAS 12.20 A 12272 REL	DESCRIPTION GAUGE BAR, STD "Y" SECTION - S8 DRAWN GLH DATE 8-6-92 CHECKED KLP DATE 8-7-92 APPROVED WEH DATE 8-1-92	SCALE 1=4 UNIT OF MEAS. EA. D 801-0910-026 THRU 039 SHIT 1 OF 1 REV.

