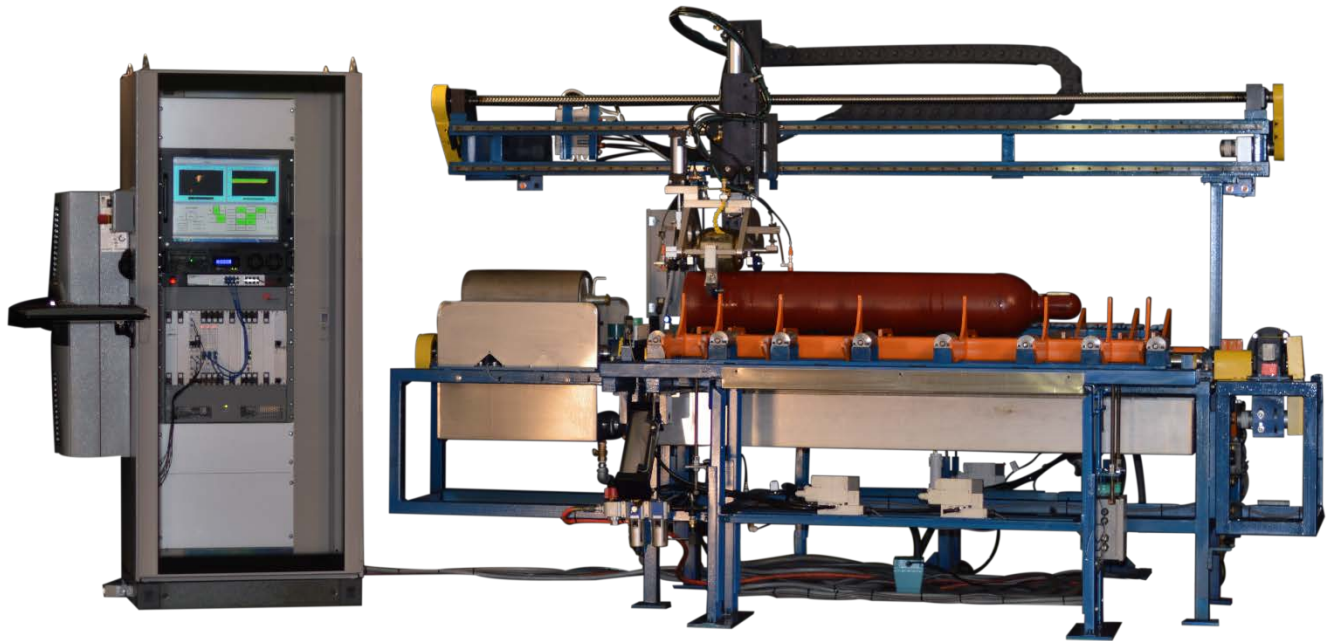


Cyl-Sonic Industrial



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Beacon Falls, CT 06403
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Document: PB-0005

Contents

1 Introduction	5
1.1 Cyl-Sonic Industrial at a glance	5
2 Customer Service & Spare Parts	6
2.1 1100615 - ASSY, INDUSTRIAL UE, VERTICAL LIFT, RH	6
2.2 1100616 - ASSY, INDUSTRIAL UE, VERTICAL LIFT, LH	8
2.3 1000141 - ASSY, BRONCO HEAD, LC, LH CONFIG	9
2.4 1000458 - ASSY, BRONCO HEAD, LC, RH CONFIG	10
2.5 1100328 - ASSY, STABILIZER PIN, BRONCO HEAD	10
2.6 1104404 - ASSY, RSU HOLDER AND WHEEL	11
2.7 1104368 - KIT, BRONCO HEAD PARTS	12
2.8 1100414 - ASSEMBLY, SIDE PLATE, BRONCO HEAD	14
2.9 1100613 - ASSEMBLY CLAMP ARM BRONCO HEAD	15
2.10 1100614 - ASSEMBLY SHAFT DRIVE ARM BRONCO HEAD	16
2.11 1103005 - ASSY, TLV SENSOR ARM RETROFIT, LC	17
2.12 1100316 - ASSY, WATER BLOCK WITH SHUTOFF	17
2.13 1100627 - ASSY, COUPLANT PIPE, ADJUSTABLE	19
2.14 1104001 - ASSY, MAIN TEST BED, RH CONFIG	20
2.15 ASSY, UPENDER, STANDARD	32
2.15.1 1104002 - ASSY, UPENDER, STANDARD, RH CONFIG	33
2.15.2 1104012 - ASSY, UPENDER, STANDARD, LH CONFIG	33
2.15.3 1104701 - ASSY, UPENDER, STANDARD, RH CONFIG WITH INLET	34
2.15.4 1104711 - ASSY, UPENDER, STANDARD, LH CONFIG WITH INLET	34
2.16 ASSY, UPENDER, PASS THROUGH	37
2.16.1 1104003 - ASSY, UPENDER, PASS THROUGH, RH CONFIG	38
2.16.2 1104013 - ASSY, UPENDER, PASS THROUGH, LH CONFIG	38
2.16.3 1104702 - ASSY, UPENDER, PASS THROUGH, RH CONFIG WITH INLET	39
2.16.4 1104712 - ASSY, UPENDER, PASS THROUGH, LH CONFIG WITH INLET	39
2.17 ASSY, LOAD CONVEYOR	42
2.17.1 1104004 - ASSY, LOAD CONVEYOR, RH CONFIG	42
2.17.2 1104014 - ASSY, LOAD CONVEYOR, LH CONFIG	42
2.18 ASSY, INLET TABLE, 65IN LONG	45
2.18.1 1104005 - ASSY, INLET TABLE, 65IN LG, SINGLE OPT, RH CONFIG	48

2.18.2 1104015 - ASSY, INLET TABLE, 65IN LG, SINGLE OPT, LH CONFIG	48
2.18.3 1104006 - ASSY, INLET TABLE, 65IN LG, DUAL OPT, RH CONFIG	48
2.18.4 1104016 - ASSY, INLET TABLE, 65IN LG, DUAL OPT, LH CONFIG	48
2.18.5 1104706 - ASSY, INLET TABLE #1, 65IN LG, DUAL OPT, RH CONFIG	49
2.18.6 1104716 - ASSY, INLET TABLE #1, 65IN LG, DUAL OPT, LH CONFIG	49
2.19 ASSY, OUTLET TABLE, 18IN LG, SINGLE OPT	52
2.19.1 1104007 - ASSY, OUTLET TABLE, 18IN LG, SINGLE OPT, RH CONFIG	52
2.19.2 1104017 - ASSY, OUTLET TABLE, 18IN LG, SINGLE OPT, LH CONFIG	52
2.20 ASSY, OUTLET TABLE, 65IN LG	54
2.20.1 1104008 - ASSY, OUTLET TABLE, 65IN LG, SINGLE OPT, RH CONFIG	57
2.20.2 1104018 - ASSY, OUTLET TABLE, 65IN LG, SINGLE OPT, LH CONFIG	57
2.20.3 1104009 - ASSY, OUTLET TABLE, 65IN LG, DUAL OPT, RH CONFIG	57
2.20.4 1104019 - ASSY, OUTLET TABLE, 65IN LG, DUAL OPT, LH CONFIG	57
2.21 ASSY, DOWNENDER, STANDARD	60
2.21.1 1104010 - ASSY, DOWNENDER, STANDARD, RH CONFIG	61
2.21.2 1104020 - ASSY, DOWNENDER, STANDARD, LH CONFIG	61
2.21.3 1104710 - ASSY, DOWNENDER, STANDARD, RH CONFIG WITH OUTLET	62
2.21.4 1104720 - ASSY, DOWNENDER, STANDARD, LH CONFIG WITH OUTLET	62
2.22 1104210 - ASSY, DSP32 SYSTEM, 12 CHNL	65
2.23 1104165 - ASSY, SIDE PLINTH UT CONNECTOR AND CABLE	66
2.24 1104280 - ASSY, PLINTH, CYL IND, REAR PNL, FULL ASSM	67
2.25 1104451 - ASSY BACK PANEL CYL IND - GE RX3i GEN 2 CONFIG 1	70
2.26 1102779 - ASSY, ENC, 18 TOOTH, WITH ENCODER, WITH Z, LC	73
2.27 1104357 - ASSY, E-STOP J-BOX, 24VDC, GEN 2	74
2.28 1102465 - ASSY, RSU 7IN, CYL INDUSTRIAL, 9CH, DSP	75
2.29 CSPEC-0010 - SYSTEM CTRL COMPUTER, 1U, 16-500, RAID, WIN7 EMB	75
2.30 1104362 - ASSY, ETHERNET SWITCH WITH POWER 110VAC SWITCH	76
2.31 1104431 - ASSY E-CAB CYLSONIC IND DSP RX3I GEN 2 CONFIG 1	76
2.32 1104432 - ASSY E-CAB CYLSONIC IND DSP RX3I GEN 2 CONFIG 2	76
2.33 1104433 - ASSY E-CAB CYLSONIC IND DSP RX3I GEN 2 CONFIG 3	76
2.34 1104434 - ASSY E-CAB CYLSONIC IND DSP RX3I GEN 2 CONFIG 4	76
2.35 System Cables	76
3 Reference Documents	77
3.1 Mechanical Drawings	77



3.2 Electrical Drawings77

1 Introduction

1.1 Cyl-Sonic Industrial at a glance

The Nordco DSP500 Industrial Ultrasonic Cylinder Inspection System has been designed to conduct a full-body test of a gas cylinder's integrity, with the ultrasonic echoes generated by the weld automatically masked out under operator control. It is an original product of Nordco Rail Services and Inspection Technologies. This document, both the printed hard-copy and the on-line help file, constitutes the parts book for the DSP500 Ultrasonic Cylinder Inspection System.

The equipment, electronics, and methods discussed herein are proprietary and are covered by the following Nordco U.S. and foreign patents and other patents pending:

4,004,455, 4,222,275, 4,229,978, 4,429,576, 4,487,071, 4,615,218, 4,763,526, 4,785,668, 4,872,130, 1,031,194 (Canada), 8,503,345.4(EPO)

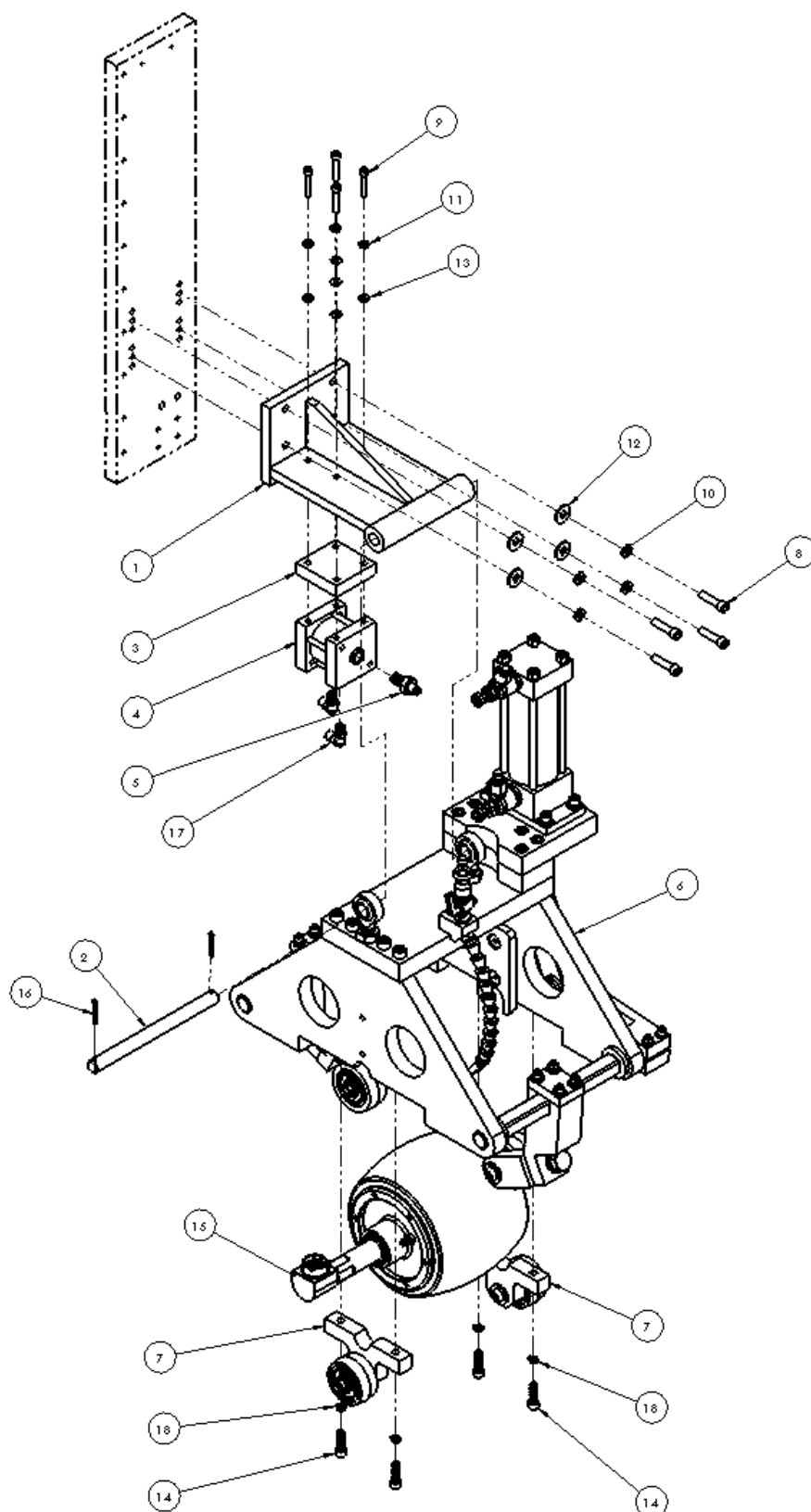
The Nordco DSP500 system, including the transducer wheel assembly mounting mechanics, was designed and manufactured by Nordco Rail Services and Inspection Technologies (125 Railroad Ave., Beacon Falls, CT 06403), a business unit of Nordco, Inc.

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Nordco acknowledges the trademarks of other organizations for their products or services where mentioned in this documentation.

2 Customer Service & Spare Parts

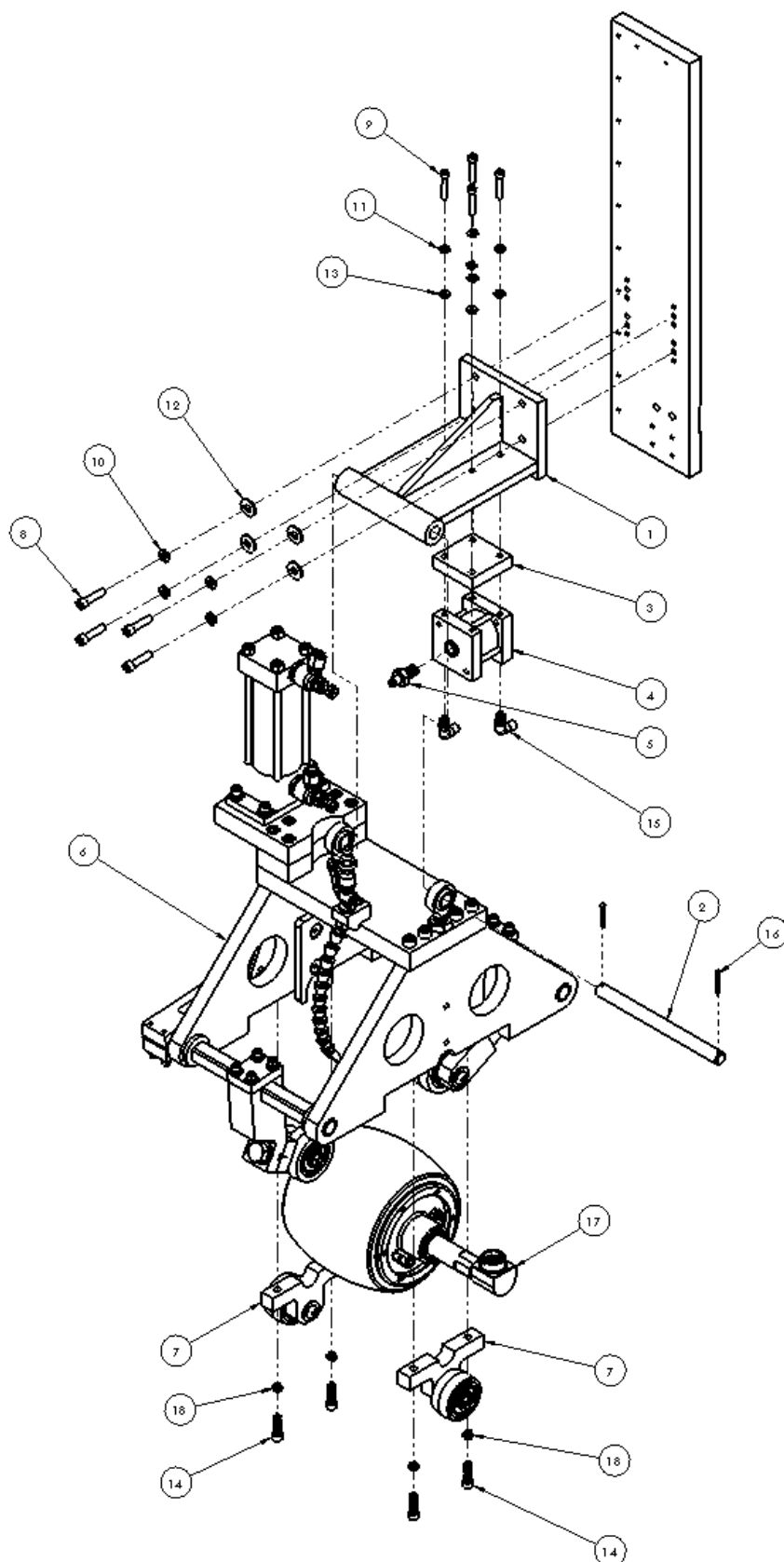
2.1 1100615 - ASSY, INDUSTRIAL UE, VERTICAL LIFT, RH



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ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6300009	MOUNT, PIVOTING, BRONCO HEAD	1
2	6300008	PIN, HEAD HANGER, BRONCO HEAD	1
3	6300007	BRACKET, CYLINDER STABILIZER, BRONCO	1
4	8001226	AIR CYL, DBL ACTING, SINGLE END ROD	1
5	1100328	ASSY, STABILIZER PIN, BRONCO HEAD	1
6	1000458	ASSY, BRONCO HEAD, LC, RH CONFIG	1
7	1104404	ASSY, RSU HOLDER AND WHEEL	2
8	SHCS_SS-0.31-20x1.25	SOCKET HEAD CAP SCREW, SS, 5/16-18 x 1.25 LG	4
9	SHCS_SS-0.25-20x1.25	SOCKET HEAD CAP SCREW, SS, 1/4-20 X 1.25 LG	4
10	LW_SS-0.31	LOCK WASHER, 5/16	4
11	LW_SS-0.25	LOCK WASHER, 1/4	4
12	WFW_SS-0.31	WIDE FLAT WASHER, 5/16	4
13	FW_SS-0.25 SAE	FLAT WASHER, 1/4 SAE	4
14	SHCS_SS-0.31-18x1.00	SOCKET HEAD CAP SCREW, SS, 5/16-18 x 1.00 LG	4
15	1102465	ASSY, RSU 7IN, CYL INDUSTRIAL, 9CH, DSP	1
16	PIN_COTTER_SS-0.125x1.00L	1/8 DIA. X 1.00 LG COTTER PIN	2
17	2003010	FITTING, MALE 90 DEG, 0.25IN OD TUBE X 0.125IN	2
18	LWH_SS-0.31	WASHER, HIGH COLLAR SPLIT LOCK, 5/16, SS	4

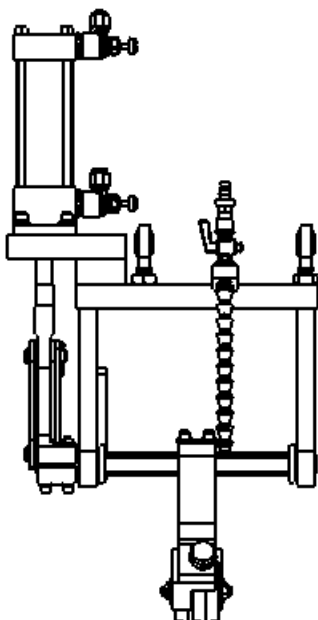
2.2 1100616 - ASSY, INDUSTRIAL UE, VERTICAL LIFT, LH



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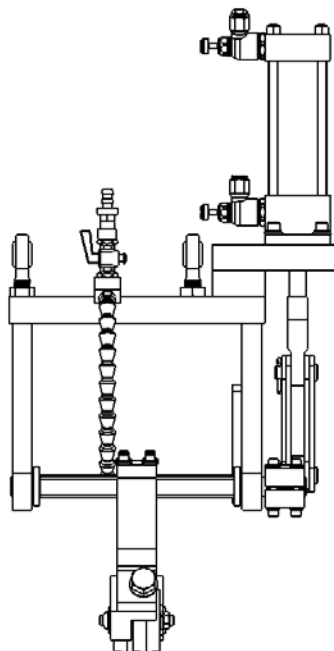
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6300009	MOUNT, PIVOTING, BRONCO HEAD	1
2	6300008	PIN, HEAD HANGER, BRONCO HEAD	1
3	6300007	BRACKET, CYLINDER STABLIZER, BRONCO	1
4	8001226	AIR CYL, DBL ACTING, SINGLE END ROD	1
5	1100328	ASSY, STABILIZER PIN, BRONCO HEAD	1
6	1000141	ASSY, BRONCO HEAD, LC, LH CONFIG	1
7	1104404	ASSY, RSU HOLDER AND WHEEL	2
8	SHCS_SS-0.31-20x1.25	SOCKET HEAD CAP SCREW, SS, 5/16-18 x 1.25 LG	4
9	SHCS_SS-0.25-20x1.25	SOCKET HEAD CAP SCREW, SS, 1/4-20 X 1.25 LG	4
10	LW_SS-0.31	LOCK WASHER, 5/16	4
11	LW_SS-0.25	LOCK WASHER, 1/4	4
12	WFW_SS-0.31	WIDE FLAT WASHER, 5/16	4
13	FW_SS-0.25 SAE	FLAT WASHER, 1/4 SAE	4
14	SHCS_SS-0.31-18x1.00	SOCKET HEAD CAP SCREW, SS, 5/16-18 x 1.00 LG	4
15	2003010	FITTING, MALE 90 DEG, 0.25IN OD TUBE X 0.125IN NPT	2
16	PIN_COTTER_SS-0.125x1.00L	1/8 DIA. X 1.00 LG COTTER PIN	2
17	1102465	ASSY, RSU 7IN, CYL INDUSTRIAL, 9CH, DSP	1
18	LWH_SS-0.31	WASHER, HIGH COLLAR SPLIT LOCK, 5/16, SS	4

2.3 1000141 - ASSY, BRONCO HEAD, LC, LH CONFIG



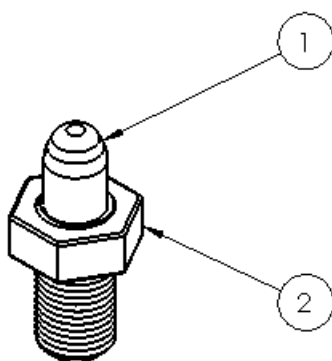
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1104368	KIT, BRONCO HEAD PARTS	1

2.4 1000458 – ASSY, BRONCO HEAD, LC, RH CONFIG



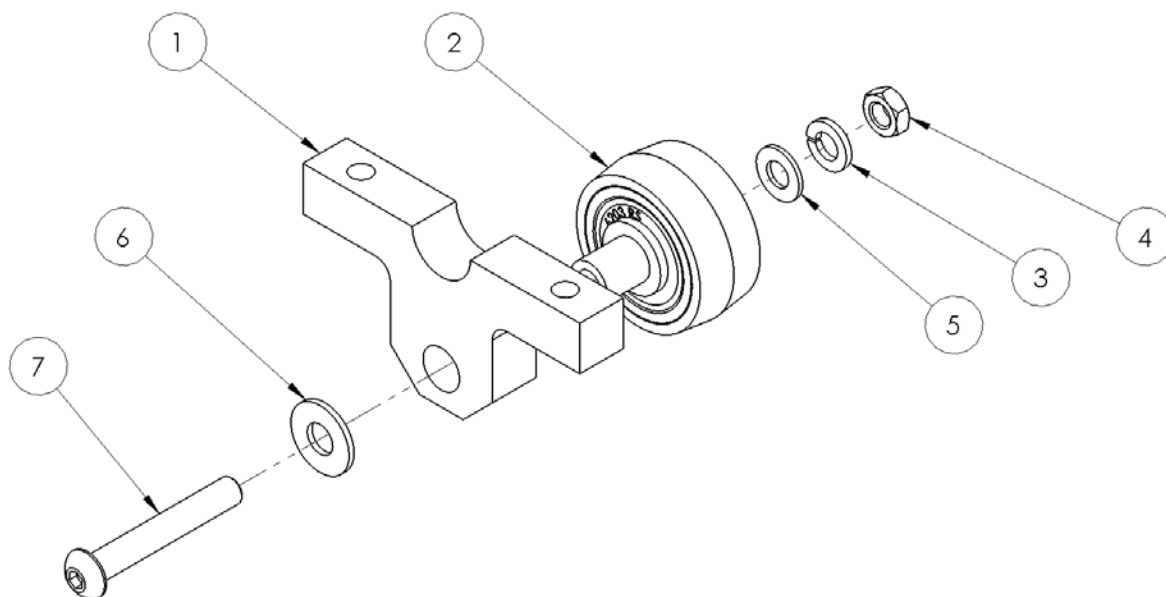
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1104368	KIT, BRONCO HEAD PARTS	1

2.5 1100328 - ASSY, STABILIZER PIN, BRONCO HEAD



ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6300026	PIN, STABILIZER, BRONCO HEAD	1
2	1000868	NUT, JAM, 1/2"-20, 18-8 STAINLESS	1

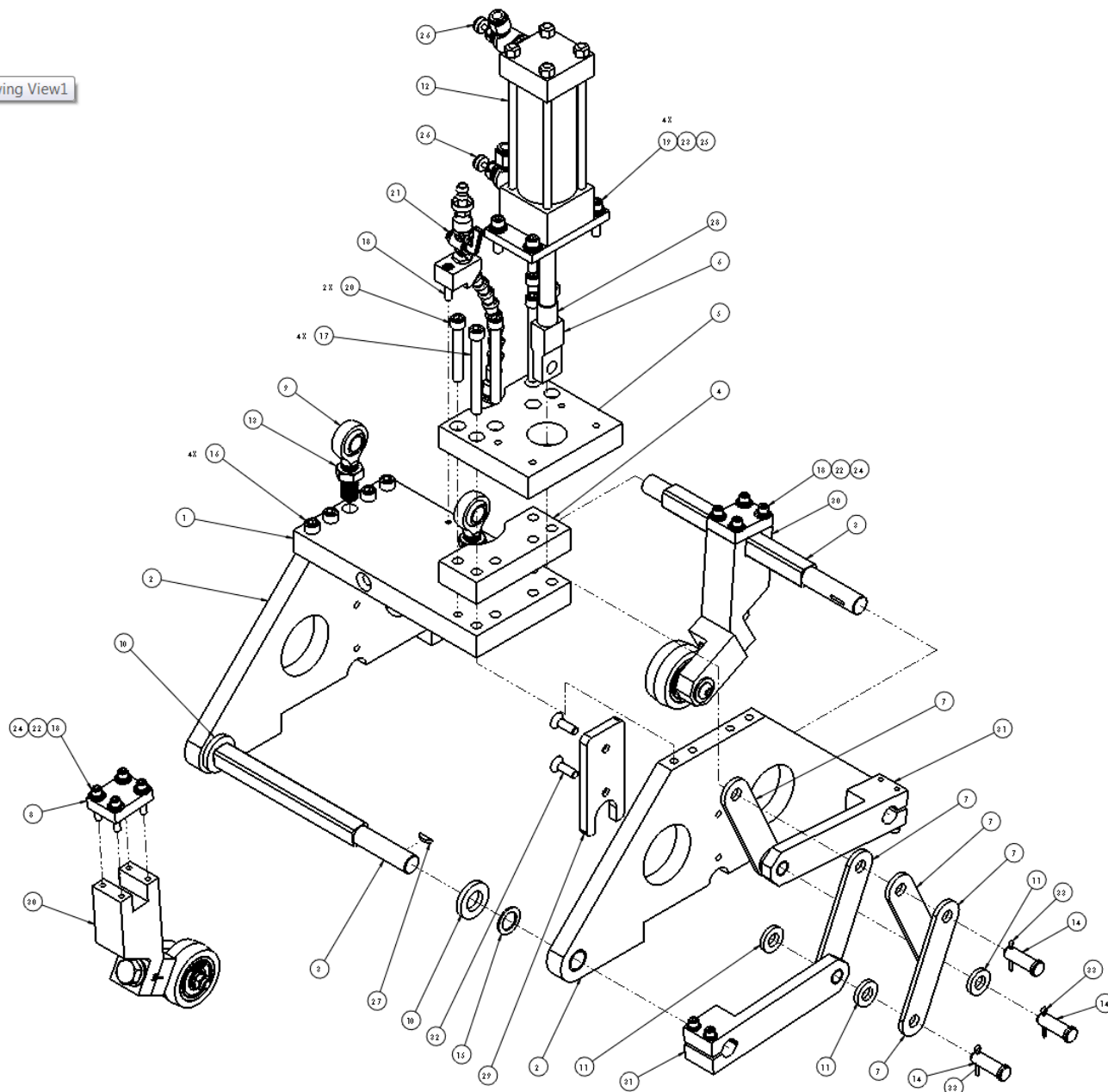
2.6 1104404 - ASSY, RSU HOLDER AND WHEEL



ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6300015	BRACKET, WHEEL CLAMP MOUNTING, BRONCO	1
2	6300006	ASSEMBLY, WHEEL, BRONCO GUIDE, 2.25" DIAMETER	1
3	LW_SS-0.38	LOCK WASHER 3/8	1
4	HJN_SS-0.38-16	HEX JAM NUT 3/8-16	1
5	FW_SS-0.38-SAE	FLAT WASHER 3/8 SAE	1
6	FW_SS-0.38-1.00 O.D.	FLAT WASHER 3/8, OVERSIZE 1.00 O.D.	1
7	SBHCS_SS-0.38-16x2.50	SOCKET BUTTON HEAD CAP SCREW 3/8-16 X 2.50 LG	1

2.7 1104368 – KIT, BRONCO HEAD PARTS

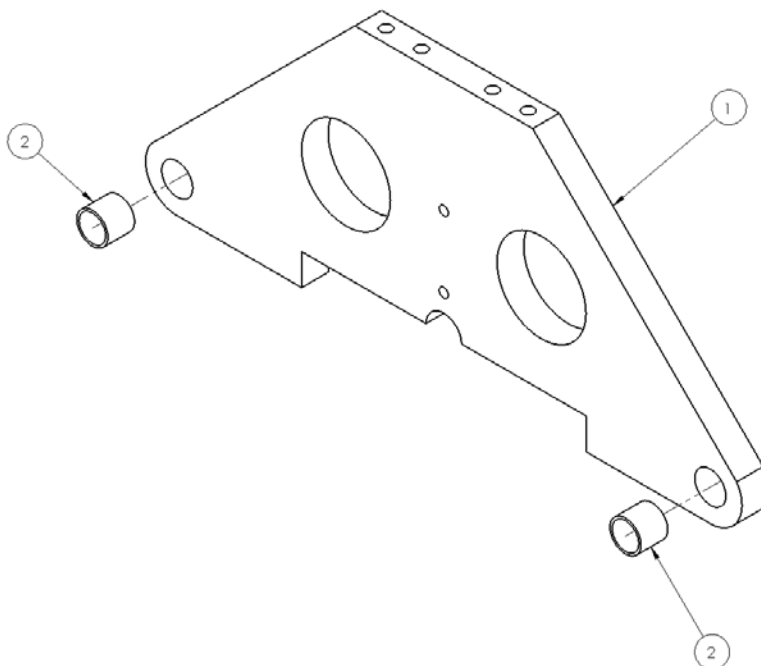
ring View1



ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6300010	PLATE, TOP, UNIVERSAL, BRONCO HEAD	1
2	1100414	ASSEMBLY, SIDE PLATE, BRONCO HEAD	2
3	6300020	SHAFT, CLAMP SQUARE, BRONCO HEAD	2
4	6300023	SPACER, CLAMP CYL. MTG. BRACKET, BRONCO	1
5	6300013	BRACKET, CLAMP CYLINDER MOUNT, BRONCO HEAD	1
6	6300022	ROD END, CLAMP CYLINDER, BRONCO	1
7	6300021	ARM, CLAMP DRIVE LINKAGE, BRONCO	4
8	6300019	CAP, CLAMP WHEEL ARM, BRONCO	2

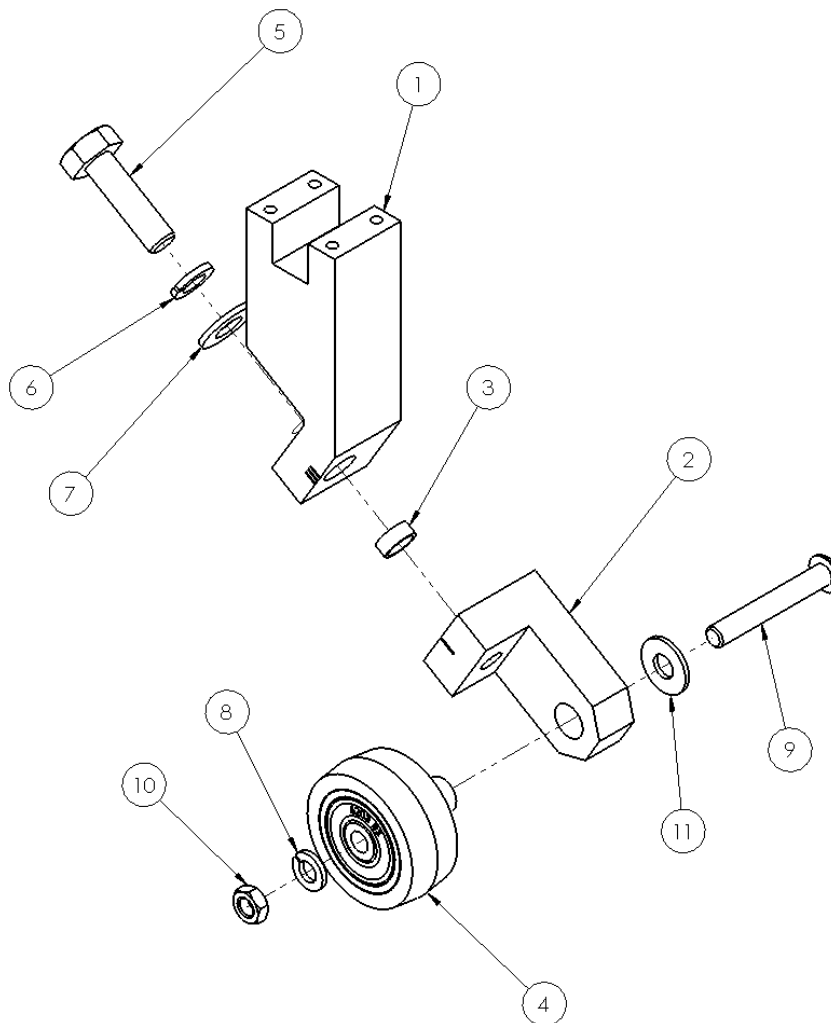
9	8001361	BALL JOINT END, PTFE-LINED STAINLESS STEEL BALL JOINTROD END	2
10	1000461	WASHER, EXTRA THICK, 3/4" SCREW SIZE	4
11	1000462	WASHER, 18-8 SS, 1/2" SCREW SIZE	4
12	8001364	CYLINDER, PNEUMATIC ACTUATOR, ALUMINUM	1
13	HARDWARE	JAM NUT, 5/8-18	2
14	1000463	PIN, CLEVIS ZINC PLATED STEEL WEAR-RESISTANT, 1/2" D	3
15	8001461	WASHER, THRUST, 3/4"ID	4
16	SHCS_SS-0.38-16x1.25	SOCKET HEAD CAP SCREW, SS, 3/8-16 X 1.25 LG	4
17	SHCS_SS-0.38-16x3.50	SOCKET HEAD CAP SCREW, SS, 3/8-16 X 3.50 LG	4
18	SHCS_SS-0.25-20x1.25	SOCKET HEAD CAP SCREW, SS, 1/4-20 X 1.25 LG	9
19	SHCS_SS-0.31-20x1.25	SOCKET HEAD CAP SCREW, SS, 5/16-18 x 1.25 LG	4
20	SHCS_SS-0.38-16x2.500	SOCKET HEAD CAP SCREW, SS, 3/8-16 X 2.50 LG	2
21	1100316	ASSY, WATER BLOCK WITH SHUTOFF	1
22	LW_SS-0.25	LOCK WASHER, 1/4	8
23	LW_SS-0.31	LOCK WASHER, 5/16	4
24	FW_SS-0.25-SAE	FLAT WASHER 1/4 SAE	8
25	FW_SS-0.31-SAE	FLAT WASHER 5/16 SAE	4
26	8001694	FITTING, FLOW CONTROL, MANUAL ADJUSTMENT	2
27	1000466	KEY, HALF MOON, FLAT, PLAIN STEEL	2
28	1000464	SPACER, CLAMP ACTUATOR, CTS	1
29	1000325	SPACER, SENSOR WHEEL, BRONCO HEAD	1
30	1100613	ASSEMBLY, CLAMP ARM, BRONCO HEAD	2
31	1100614	ASSEMBLY, SHAFT DRIVE ARM, BRONCO HEAD	2
32	FHCS_SS-0.31-18x1.00	FLAT HEAD CAP SCREW, SS, 5/16-18 X 1.00 LG	2
33	PIN_COTTER_SS- 0.125x1.00L	1/8 DIA. X 1.00 LG COTTER PIN	3

2.8 1100414 - ASSEMBLY, SIDE PLATE, BRONCO HEAD



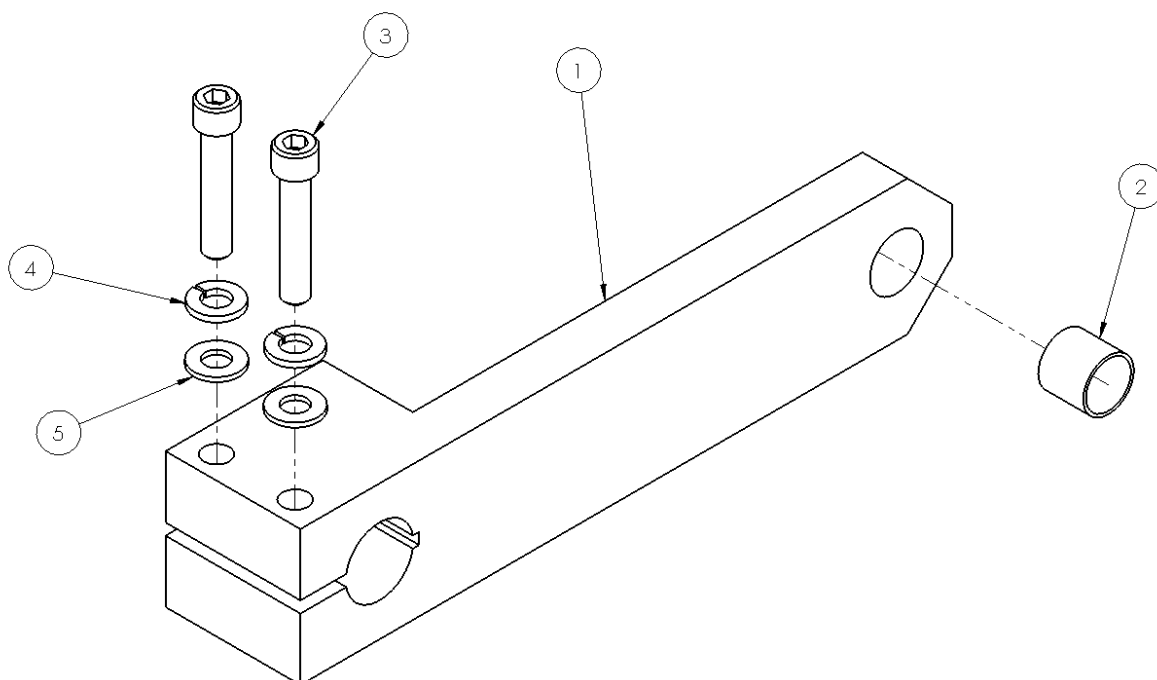
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6300011	PLATE, BRONCO HEAD, SIDE	1
2	8000171	BUSHING, SELF-LUBRICATING BEARING	2

2.9 1100613 - ASSEMBLY CLAMP ARM BRONCO HEAD



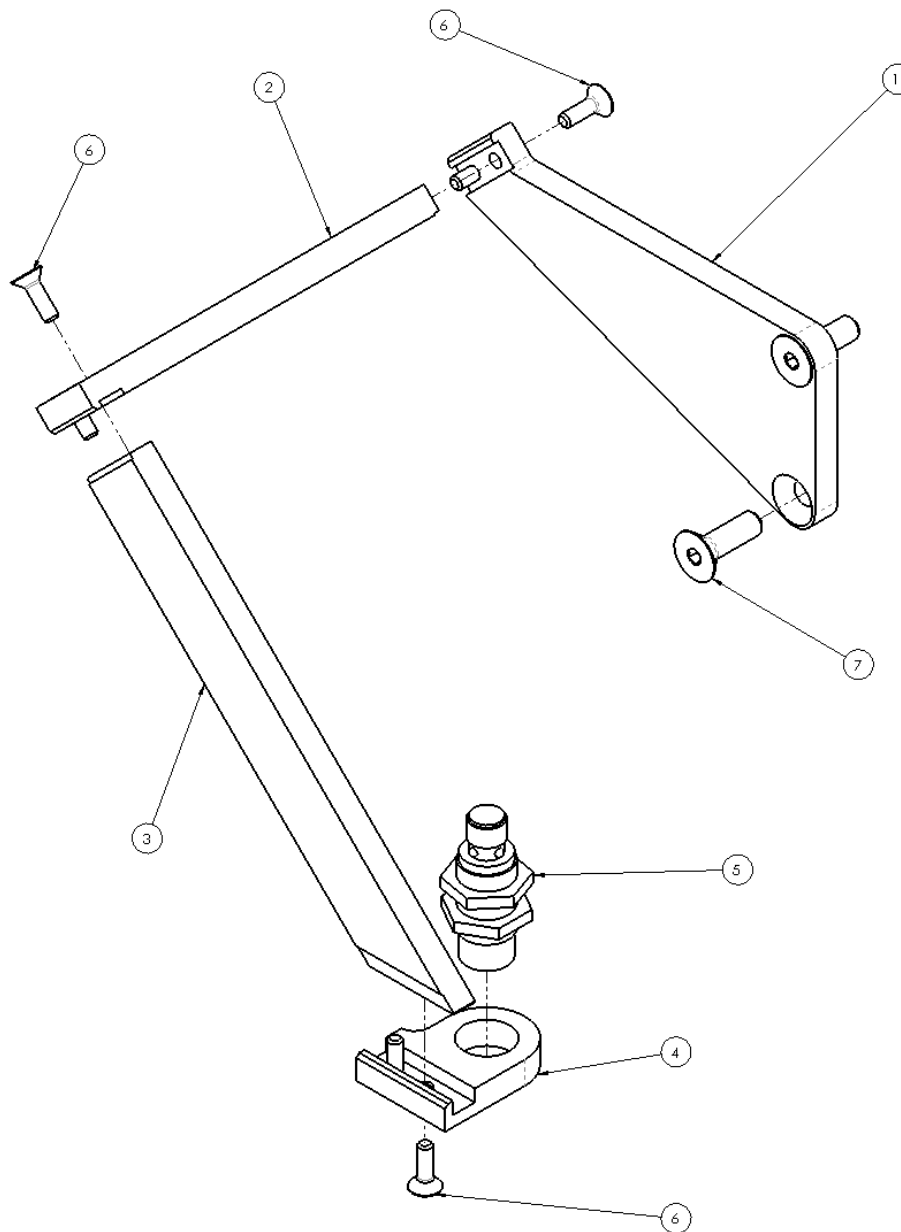
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6300017	SPACER, CLAMP WHEEL ARM, BRONCO	1
2	6300018	BRACKET, GUIDE WHEEL, BRONCO HEAD	1
3	6300024	BUSHING, GUIDE WHEEL BRACKET, SLEEVE, BRONCO	1
4	6300025	ASSEMBLY, WHEEL, BRONCO CLAMP WHEEL	1
5	HHB_SS-0.500-13X1.00	HEX HEAD BOLT, 1/2-13 X 1.00 LG	1
6	LW_SS-0.44	LOCK WASHER 7/16	1
7	1104162	SHIM, ROUND	1
8	LW_SS-0.38	LOCK WASHER 3/8	1
9	SBHCS_SS-0.38-16x2.50	SOCKET BUTTON HEAD CAP SCREW 3/8-16 X 2.50 LG	1
10	HJN_SS-0.38-16	HEX JAM NUT 3/8-16	1
11	FW_SS-0.38-1.00 O.D.	FLAT WASHER 3/8, OVERSIZE 1.00 O.D.	1

2.10 1100614 - ASSEMBLY SHAFT DRIVE ARM BRONCO HEAD



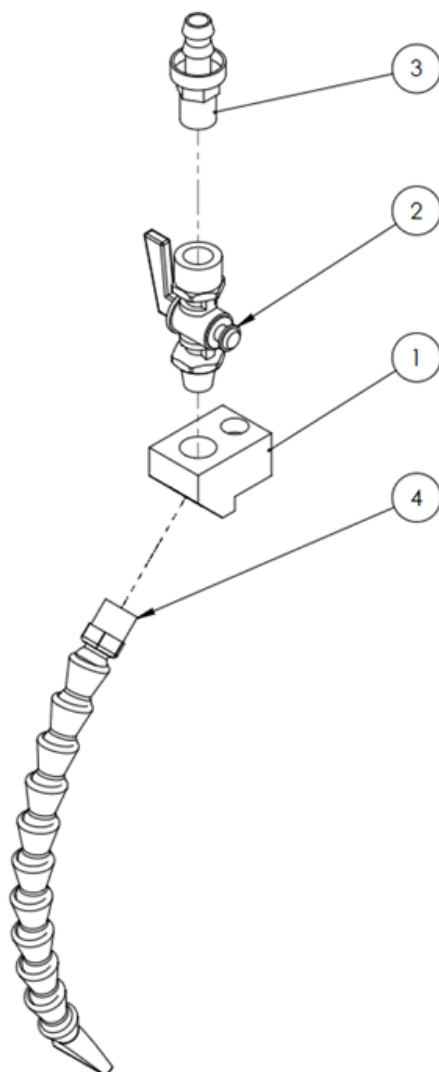
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6300016	ARM, CLAMP SHAFT DRIVE, BRONCO	1
2	1000460	BUSHING, SELF-LUBRICATING BEARING	1
3	SHCS_SS-0.25-20x1.25	SOCKET HEAD CAP SCREW, SS, 1/4-20 X 1.25 LG	2
4	LW_SS-0.25	LOCK WASHER, 1/4	2
5	FW_SS-0.25 SAE	FLAT WASHER, 1/4 SAE	2

2.11 1103005 - ASSY, TLV SENSOR ARM RETROFIT, LC



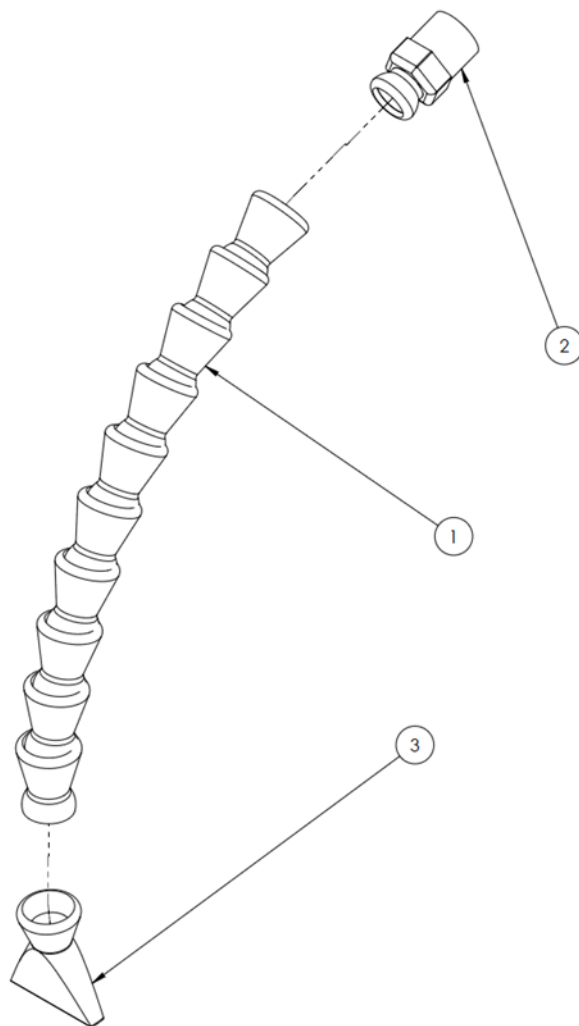
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1103006	MEMBER, RETROFIT MOUNTING, TLV SENSOR ARM	1
2	1103007	MEMBER, OUT, TLV SENSOR ARM	1
3	1103008	MEMBER, DOWN, TLV SENSOR ARM	1
4	1103009	SENSOR PLATE, TLV SENSOR ARM	1
5	1102736	IGS205 INDUCTIVE PROXIMITY SENSOR, ORANGE	1
6	FHSHCS_SS-10-24x0.625	SCREW FHSHCS 10-24 X .625 LG SS 90585A243	6
7	FHCS_SS-0.31-18x1.000	SCREW, FLAT HEAD CAP, 5/16-18 X 1, SS	2

2.12 1100316 - ASSY, WATER BLOCK WITH SHUTOFF



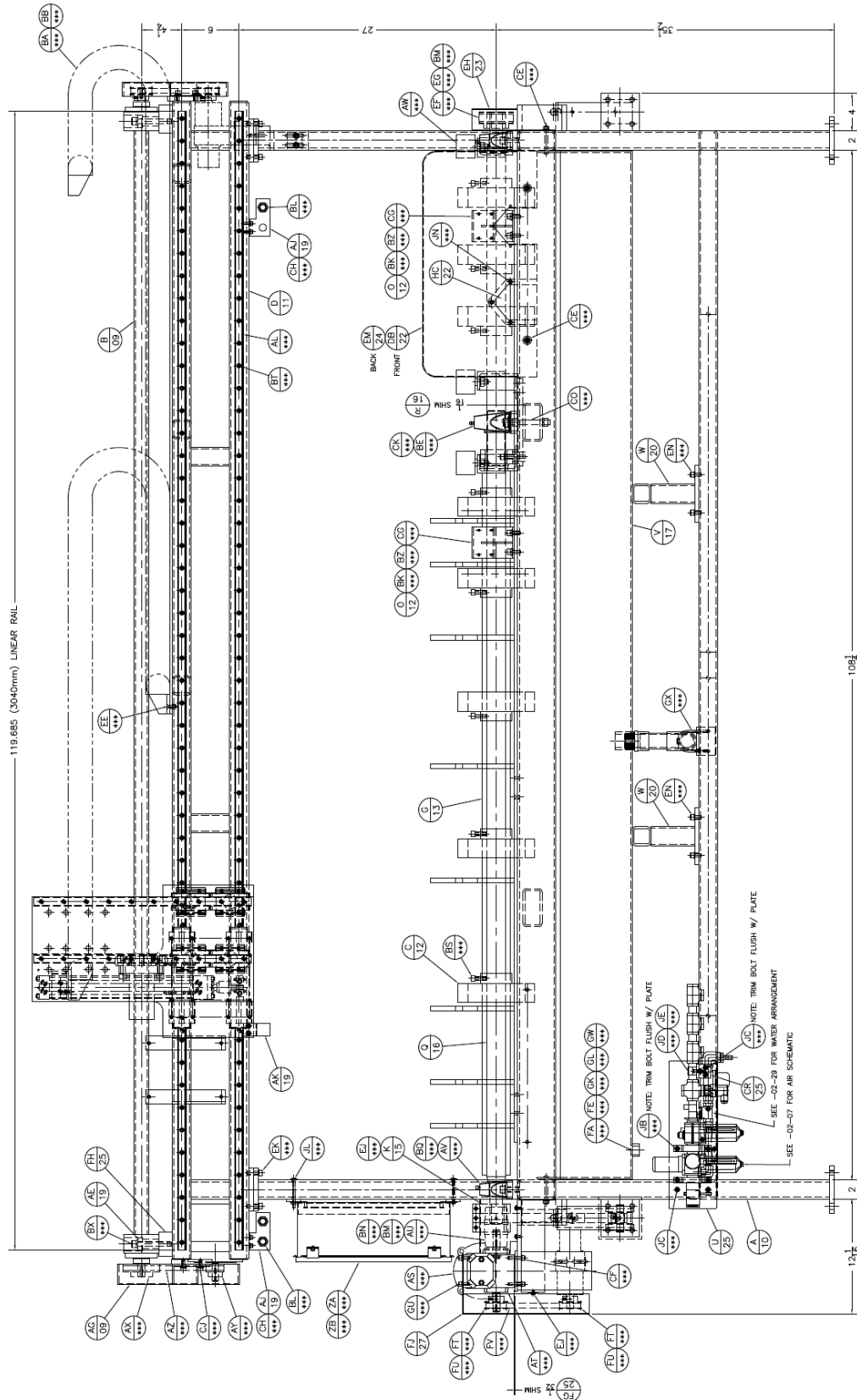
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6001011	MANIFOLD, COUPLANT, ONE PORT	1
2	2003030	VALVE 1/4" MALE-FEMALE NPT COCK LEVER HANDLE	1
3	8001383	FITTING, BARB, 1/4" MALE NPT, 3/8" BARB	1
4	1100627	ASSY, COUPLANT PIPE, ADJUSTABLE	1

2.13 1100627 - ASSY, COUPLANT PIPE, ADJUSTABLE



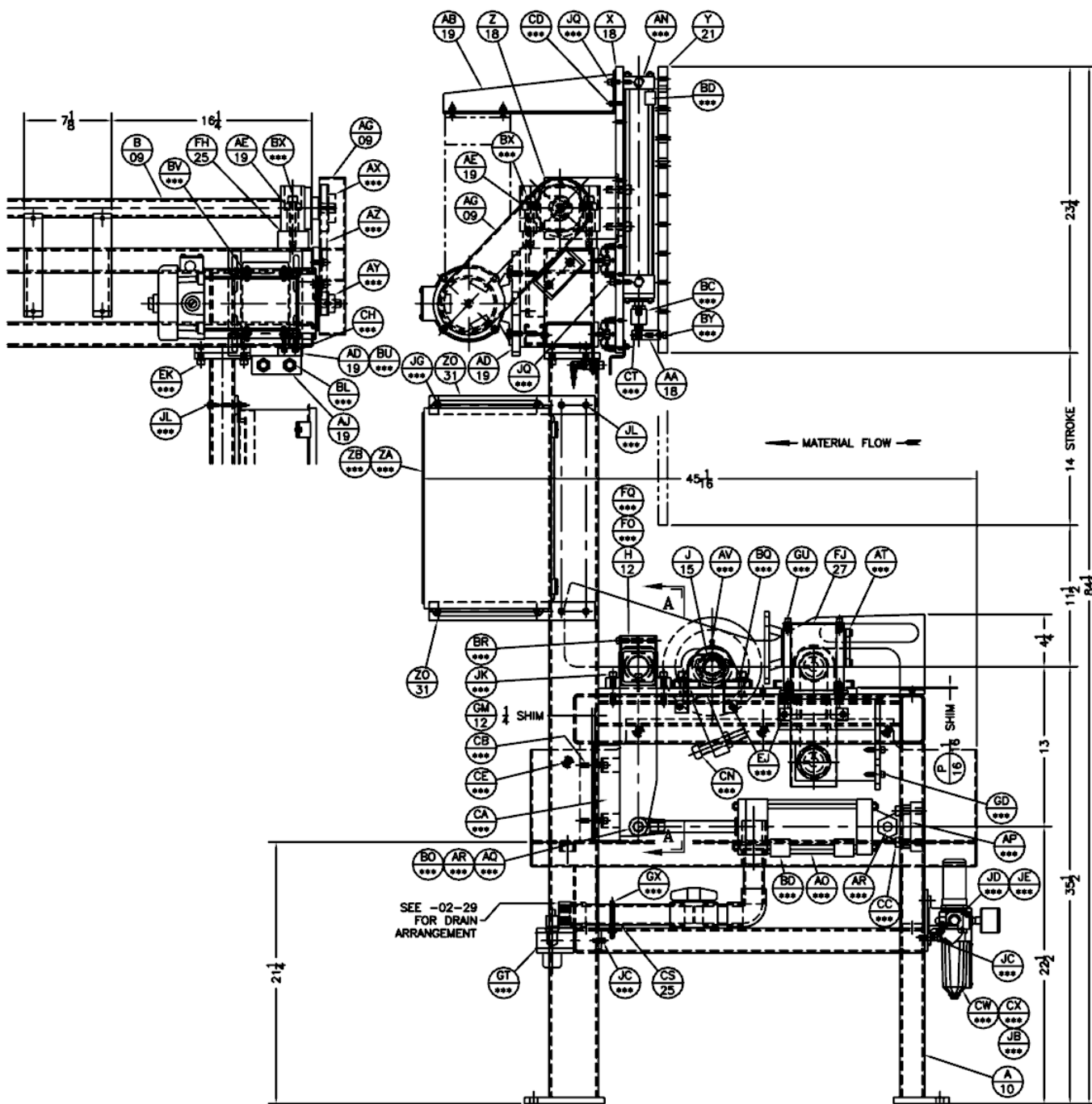
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1100624	1/4" ID LOC-LINE ANY-WHICH-WAY COOLANT HOSE,	1
2	1100625	COOLANT SUPPLY CONNECTOR, 1/4 NPT MALE	1
3	1100626	1" FLAT NOZZLE	1

2.14 1104001 - ASSY, MAIN TEST BED, RH CONFIG



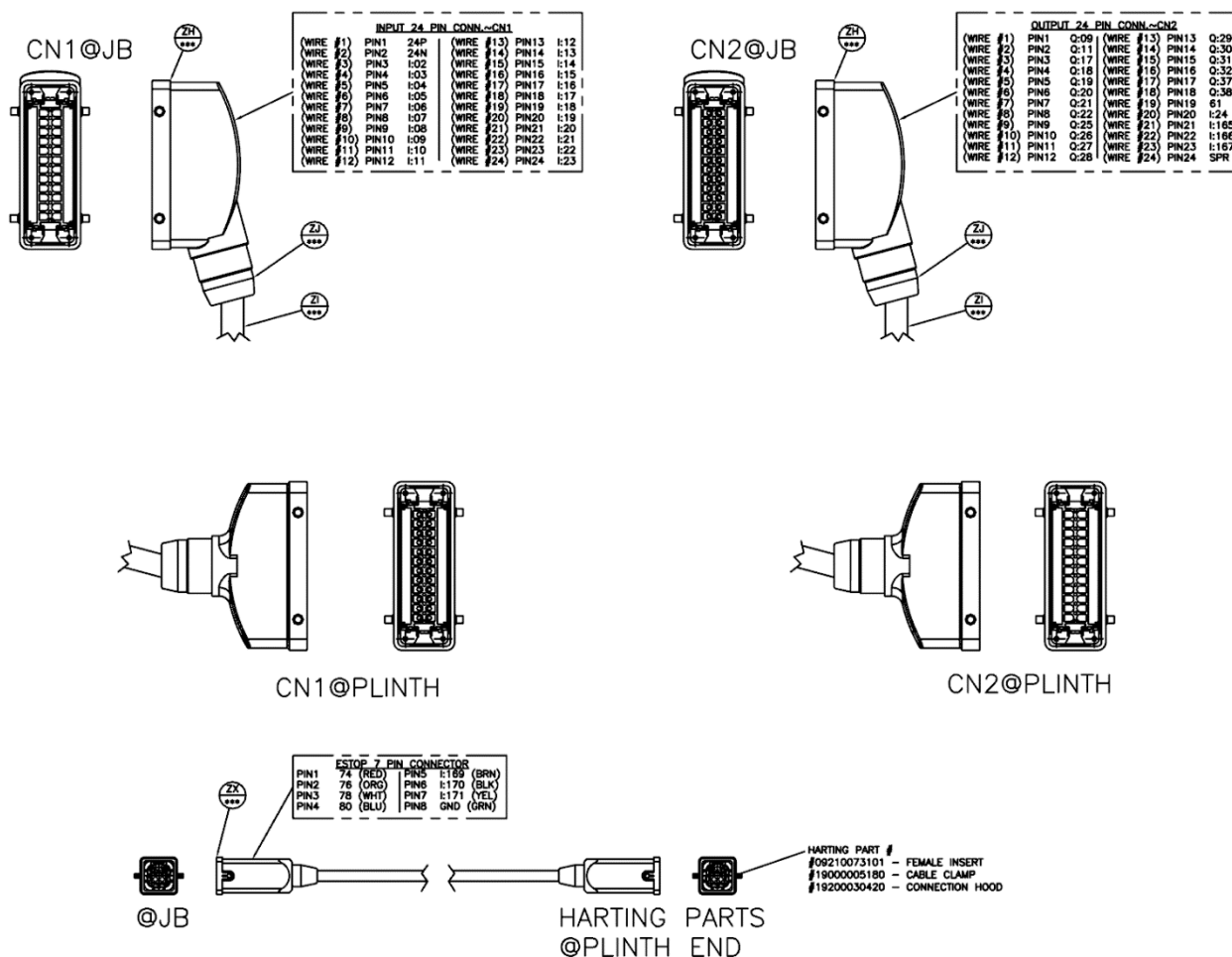
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ITEM NO.	PART NO.	DESCRIPTION	QTY
A	10825-02-10	MAIN FRAME ~ W.S.	1
B	10825-02-09	BALLSCREW ASSEMBLY ~ PURCH	1
C	10825-02-12	DRIVE ROLLER	16
D	10825-02-11	UPPER FRAME ~ W.S.	1
G	10825-02-13	LIFT ARM~ W.S.	1
H	10825-02-12	PIVOT ARM ~ W.S.	1
J	10825-02-15	GUARD ~ W.S.	1
K	10825-02-15	GUARD ~ CRS	1
O	10825-02-12	BRACKET ~ W.S.	2
P	10825-02-16	PILLOW BLOCK SHIM ~ STEEL	4
Q	10825-02-16	ROLL SHAFT ~ SS 303	2
R	10825-02-16	PILLOW BLOCK SHIM ~ STEEL	2
S	10825-02-16	CENTER BEARING SUPPORT-W.S.	1
T	10825-02-16	BEARING BLOCK SPACER ~ CRS	1
U	10825-02-25	FRL MOUNTING PLATE ~ HRS	1
V	10825-02-17	PAN ~ WELDED STAINLESS STEEL	1
W	10825-02-20	PAN SUPPORT ~ W.S.	2
X	10825-02-18	CARRIAGE PLATE ~ STEEL	1
Y	10825-02-21	LIFT PLATE ~ T6061 BLACK ANODIZED ALUMINUM	1

Z	10825-02-18	NUT MOUNTING PLATE ~ CRS	1
AA	10825-02-18	ROD MOUNTING PLATE ~ CRS	1
AB	10825-02-19	BRACKET ~ W.S.	1
AC	10825-02-19	SPACER ~ STEEL	4
AD	10825-02-19	MOTOR MOUNTING PLATE ~ STEEL	1
AE	10825-02-19	SPACER ~ STEEL	4
AG	10825-02-09	PULLEY GUARD ~ W.S.	1
AJ	10825-02-19	BRACKET ~ CRS	2
AK	10825-02-19	BRACKET ~ CRS	1
AL	10825-02-01	LINEAR GUIDEWAY ASSEMBLY, (2) BLOCK PER RAIL	2
AM	10825-02-01	LINEAR GUIDEWAY ASSEMBLY, (2) BLOCK PER RAIL	2
AN	10825-02-01	CYLINDER, 2" BORE X 14" STROKE	1
AO	10825-02-01	CYLINDER, 4" BORE X 6" STROKE	1
AP	10825-02-01	CYLINDER EYE BRACKET 3/4" DIA. PIN	1
AQ	10825-02-01	CYLINDER ROD CLEVIS, 3/4-16 THREADS	1
AR	10825-02-01	CYLINDER PIVOT PIN, 3/4" DIA.	1
AS	10825-02-01	1-1/2hp 2500rpm 180vdc MOTOR	2
AT	10825-02-01	WORM GEAR REDUCER	1
AU	10825-02-01	3-JAW TYPE COUPLING	1
AV	10825-02-01	1-1/4" BALL BEARING PILLOW BLOCK	4
AW	10825-02-01	60 DURO SHORE A URETHANE ROLLER	3
AX	10825-02-01	TIMING BELT PULLEY FOR 1/2" WIDE "L" SECTION BELT	1
AY	10825-02-01	TIMING BELT PULLEY FOR 1/2" WIDE "L" SECTION BELT	1
AZ	10825-02-01	TIMING BELT	1
BA	10825-02-01	TRACK, 33 LINKS LG., SNAP OPEN ALONG OUTSIDE RADIUS	1
BB	10825-02-01	FIXED END BRACKET W/ STRAIN RELIEF	1
BC	10825-02-01	CYLINDER ROD COUPLER	1
BD	10825-02-01	REED SWITCH, TIE ROD MOUNT, QUICK DISCONNECT, LED	4
BE	10825-02-01	2" BALL BEARING PILLOW BLOCK, STD DUTY NP SERIES	2
BH	10825-02-01	3/8 NPT MALE TO 3/8 TUBE RIGHT ANGLE FLOW CONTROL	2
BJ	10825-02-01	1/2 NPT MALE TO 1/2 TUBE RIGHT ANGLE FLOW CONTROL	2
BK	10825-02-01	3-WIRE DC INDUCTIVE PROXIMITY SWITCH, 50mm, PNP, 10-60VDC	2
BL1	10825-02-01	18mm BARREL TYPE PROXIMITY SWITCH	2
BL2	10825-02-01	18mm BARREL TYPE PROXIMITY SWITCH	1
BM	10825-02-01	KEYSTOCK	3
BN	10825-02-01	KEYSTOCK	1
BO	10825-02-01	BRONZE BUSHING 3/4 ID	1
BQ1	10825-02-01	SHCS 1/2-13 X 1-1/2 LG. ~ STN STL	8
BQ2	10825-02-01	1/2 LOCKWASHER ~ STN STL	8
BQ3	10825-02-01	1/2 USS (OVERSIZED) FLATWASHER ~ STN STL	8
BR1	10825-02-01	SHCS 5/16-18 X 2-1/4 LG ~ STN STL	3
BR2	10825-02-01	5/16 LOCKWASHER ~ STN STL	3
BS1	10825-02-01	SHCS 3/8-16 X 1-1/4 LG ~ STN STL	16
BS2	10825-02-01	3/8-16 HEX NUT~STN. STL.	16
BT1	10825-02-01	SHCS 1/4-20 X 1" LG. ~ GR8	102
BT2	10825-02-01	1/4 HI-COLLAR LOCKWASHER	102
BU1	10825-02-01	HHCS 3/8-16 X 1-1/2 LG. ~ GR8	4
BU2	10825-02-01	3/8 LOCKWASHER	4

BU3	10825-02-01	3/8 FLAT WASHER	4
BV1	10825-02-01	HHCS 5/16-18 X 1" LG. ~ GR8	4
BV2	10825-02-01	5/16 LOCKWASHER	4
BV3	10825-02-01	5/16 FLAT WASHER	4
BW1	10825-02-01	SHCS 1/2-13 X 1-1/2 LG. ~ GR8	5
BW2	10825-02-01	1/2 LOCKWASHER	5
BX1	10825-02-01	SHCS 1/2-13 X 3-1/4 LG. ~ GR8	4
BX2	10825-02-01	1/2 LOCKWASHER	4
BY	10825-02-01	SHCS 5/16-18 X 1" LG. ~ GR8	2
BZ1	10825-02-01	SHCS 3/8-16 X 1" LG. ~ STN STL	4
BZ2	10825-02-01	3/8 LOCKWASHER ~ STN STL	4
BZ3	10825-02-01	3/8 FLAT WASHER ~ STN STL	4
CA	10825-02-01	McMASTER CARR BUMPER, #21685T11	1
CB1	10825-02-01	SHCS 5/16-18 X 2 LG. ~ GR8	2
CB2	10825-02-01	5/16 LOCKWASHER	2
CB3	10825-02-01	5/16 USS (OVERSIZED) FLAT WASHER	2
CC1	10825-02-01	SHCS 1/2-13 X 1 1/4" LG	4
CC2	10825-02-01	1/2 LOCKWASHER	4
CD1	10825-02-01	SHCS 1/4-20 X 3/4 LG. ~ GR8	2
CD2	10825-02-01	1/4 LOCKWASHER	2
CE1	10825-02-01	BHSCS 5/16-18 X 2-3/4 LG. ~ STN STL	12
CE2	10825-02-01	HEX NUT 5/16-18 ~ STN STL	12
CE3	10825-02-01	5/16 LOCKWASHER ~ STN STL	12
CE4	10825-02-01	5/16 FLAT WASHER ~ STN STL	12
CF1	10825-02-01	SHCS 5/16-18 X 1-1/4 LG. ~ GR8	6
CF2	10825-02-01	5/16 LOCKWASHER	6
CG1	10825-02-01	SHCS #10-24 X 1-1/2 LG. ~ STN STL	8
CG2	10825-02-01	#10-24 HEX NUT ~ STN STL	8
CG3	10825-02-01	#10 LOCKWASHER ~ STN STL	8
CG4	10825-02-01	#10 FLAT WASHER ~ STN STL	8
CH1	10825-02-01	SHCS 1/4-20 X 3/4 LG. ~ GR8	6
CH2	10825-02-01	1/4 LOCKWASHER	6
CJ1	10825-02-01	SHCS 5/16-18 X 3/4 LG. ~ GR8	2
CJ2	10825-02-01	5/16 LOCKWASHER	2
CJ3	10825-02-01	5/16 FLAT WASHER	2
CK1	10825-02-01	SHCS 5/8-11 X 1 5/8 LG	4
CK2	10825-02-01	5/8 LOCKWASHER	4
CK3	10825-02-01	5/8 FLAT WASHER	4
CL1	10825-02-01	SHCS 1/2-13 X 5-1/2 LG	32
CL2	10825-02-01	1/2 LOCKWASHER	32
CL3	10825-02-01	1/2-13 HEX NUT	32
CM1	10825-02-01	SHCS 1/4-20 X 1 LG. ~ STN STL	20
CM2	10825-02-01	1/4 HI-COLLAR LOCKWASHER ~ STN STL	20
CN1	10825-02-01	SQ HD SETSCREW 3/4-10 X 4" LG.	2
CN2	10825-02-01	3/4-10 HEX JAM NUT	2
CO1	10825-02-01	SHCS 1/2-13 X 3 1/2 LG	2
CO2	10825-02-01	1/2 LOCKWASHER	2
CO3	10825-02-01	1/2" FLAT WASHER	2

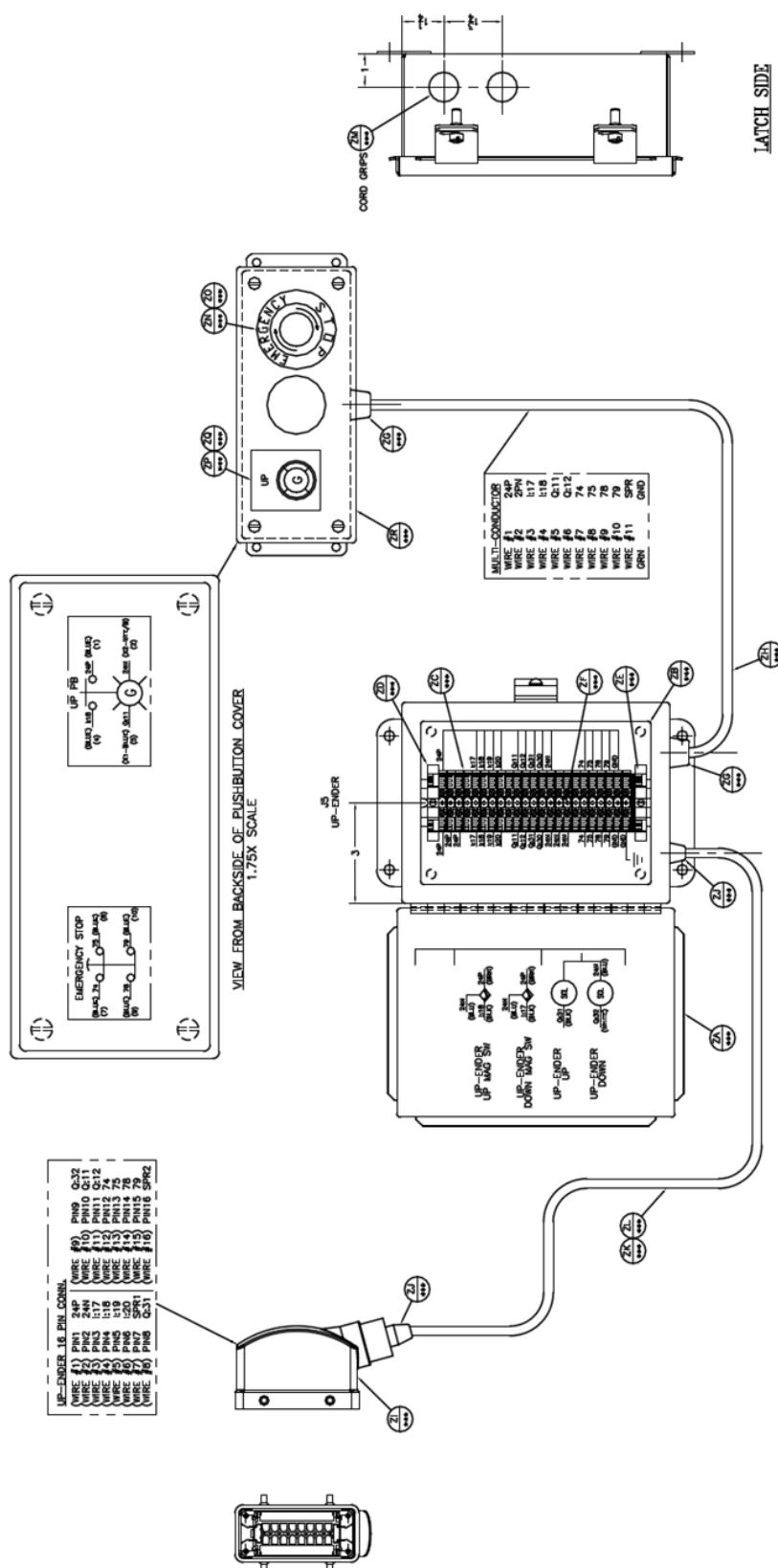
CO4	10825-02-01	1/2-13 HEX NUT	2
CP	10825-02-23	SLOTTED STEEL STRUT CHANNEL, 1 5/8 X 1 5/8 X 8' LG	1
CQ1	10825-02-01	BHSCS 1/4-20 X 1/2 LG. ~ GR8	4
CQ2	10825-02-01	1/4 LOCKWASHER	4
CR	10825-02-25	FRL SUPPORT ANGLE ~ STL.	1
CS	10825-02-25	DRAIN SUPPORT ANGLE ~ STL.	1
CT	10825-02-01	ALLOY STEEL NYLON-TIP SET SCREWS, BLACK-OXIDE, #10-24 THREAD, 3/8" LONG	1
CU	10825-02-07	VALVE MANIFOLD ASSEMBLY: 24-VDC COILS, 3/8 NPT A&B CYLINDER PORTS,	1
CW	10825-02-01	1/2" FILTER / REGULATOR / LUBRICATOR W/ GAUGE & BRACKET	1
CX	10825-02-01	PRESSURE RELIEF VALVE, 1/2 NPT, STAMPED BRACKET	1
CZ1	10825-02-01	SHCS 3/8-16 X 5 LG ~ GR 8	2
CZ2	10825-02-01	3/8 FLAT WASHER	2
CZ3	10825-02-01	3/8 LOCKWASHER	2
CZ4	10825-02-01	3/8-16 HEX NUT	2
DB	10825-02-22	SPLASH PLATE ~ WELDED 304 STN. STL.	1
DE	10825-02-29	STD-WALL (SCHEDULE 40) WHITE PVC PIPE FITTING 1-1/4" PIPE SIZE, MALE ADAPTER, NPT MALE X SOCKET FEMALE	1
DF	10825-02-29	STD-WALL (SCHEDULE 40) WHITE PVC UNTHREADED PIPE 1-1/4" PIPE SIZE X 5' LENGTH	1
DG	10825-02-29	STD-WALL (SCHEDULE 40) WHITE PVC PIPE FITTING 1-1/4" PIPE, FEMALE ADAPTER, NPT FEMALE X SOCKET FEMALE	1
DJ	10825-02-29	ECONOMY PVC BALL VALVE 1-1/4" SOCKET CONNECTION	1
DK	10825-02-29	STD-WALL (SCHEDULE 40) WHITE PVC PIPE FITTING 1-1/4" PIPE SIZE, 90 DEG ELBOW	1
DM	10825-02-07	PRESSURE SWITCH, 1/4" NPT	1
DQ	10825-02-07	TUBE FITTING, STRAIGHT, 1/4" TUBE TO 3/8 NPT	2
DT	10825-02-07	3/4" MUFFLER	1
DU	10825-02-07	TUBE FITTING, STRAIGHT, 3/8" TUBE TO 3/8 NPT	6
DV	10825-02-07	TUBE FITTING, 1/2" OD TUBE X 1/2 NPT, 90 DEGREE	4
DX	10825-02-07	TUBE FITTING, STRAIGHT, 1/2" TUBE TO 3/8 NPT	2
DY	10825-02-07	1/2 NPT X 3" LG. NIPPLE	4
DZ	10825-02-07	1/2 NPT TEE - IRON	3
EA	10825-02-07	1/2 NPT CROSS - IRON	1
EB	10825-02-07	1/2NPT X 1/4 NPT HEX REDUCING BUSHIING - IRON	1
EE1	10825-02-01	FHSCS 1/4-20 X 1 LG. ~ GR8	4
EE2	10825-02-01	1/4-20 HEX NUT	4
EE3	10825-02-01	1/4 LOCKWASHER	4
EF	10825-02-01	GEARBELT PULLEY	2
EG	10825-02-01	GEARBELT	2
EH	10825-02-23	PULLEY GUARD ~ W.S.	1
EJ1	10825-02-01	BHSCS 1/4-20 X 3/8 LG. ~ STN STL	10
EJ2	10825-02-01	1/4 LOCKWASHER ~ STN STL	10
EK1	10825-02-01	SHCS 3/8-16 X 1 1/4 LG. ~ GR8	8
EK2	10825-02-01	3/8 LOCKWASHER	8
EM	10825-02-24	SPLASH PLATE ~ WELDED 304 STN STL	1
EN1	10825-02-01	SHCS 3/8-16 X 3/4 LG	8

EN2	10825-02-01	3/8 LOCKWASHER	8
FA	10825-02-01	GALVANIZED PIPE NIPPLE, 3/4 SCH 40 X 2" LG	1
FE	10825-02-01	BALL LOCK VALVE 3/4" FEMALE NPT TO 3/4" FEMALE NPT	1
FF1	10825-02-01	SHCS 1/4-20 X 2-1/2 LG. ~ GR8	16
FF2	10825-02-01	1/4 HI-COLLAR LOCKWASHER	16
FG	10825-02-25	SPEED REDUCER SHIM ~ STL.	2
FH	10825-02-25	BEARING BLOCK SHIM ~ STL.	2
FJ	10825-02-27	ENCODER GUARD ~ W.S.	1
FL	10825-02-01	1/4" WALL BUSHING 1 3/4 ID X 2 1/4 OD X 1 1/2 LG.	2
FM	10825-02-01	BRONZE THRUST WASHER, 1 3/4 ID X 2 5/8 OD X 1/8 THICK	2
FN	10825-02-08	BEARING BLOCK ~ STEEL	2
FO	10825-02-01	KEYSTOCK 1/2 X 1/2 X 3-3/4 LG., R.O.E.	1
FP	10825-02-08	SPACER ~ STEEL	2
FQ	10825-02-01	ROLL PIN, 3/16 DIA X 3 LG.	1
FR1	10825-02-08	ROLL MOUNT ~ W.S.	1
FR2	10825-02-08	ROLL MOUNT ~ W.S.	2
FT	10825-02-01	"L" SERIES TIMING BELT PULLEY FOR 1/2" WIDE BELT, 18 TOOTH	4
FU	10825-02-01	#10-24 X 3/4 LG. CUP POINT SETSCREW	8
FV	10825-02-01	3/8" PITCH TIMING BELT	2
FW1	10825-02-01	SHCS 3/8-16 X 1-1/2 LG. ~ STN STL	6
FW2	10825-02-01	3/8 LOCKWASHER - STN STL	6
FW3	10825-02-01	3/8 FLAT WASHER - STN STL	6
FX	10825-02-15	ENCODER MTG PLATE ~ W.S.	1
FZ	10825-02-15	PULLEY GUARD ~ W.S.	1
GC1	10825-02-01	SHCS 3/8-16 X 1-1/4 LG. ~ GR8	2
GC2	10825-02-01	3/8 LOCKWASHER	2
GC3	10825-02-01	3/8 FLAT WASHER	2
GD1	10825-02-01	SHCS 5/16-18 X 3/4 LG. ~ GR8	4
GD2	10825-02-01	5/16 LOCKWASHER	4
GD3	10825-02-01	5/16 FLAT WASHER	4
GE	10825-02-29	FHSCS 1/4-20 X 3/4" LG, ~ GR8	2
GF	10825-02-29	TAP BLOCK ~ STL.	1
GH	10825-02-29	BRASS BARBED HOSE FITTING, 3/8" HOSE ID, 1/2 NPTF MALE END	1
GJ	10825-02-29	EXTREME-PRESSURE BRASS PIPE FITTING, 90 DEGREE ELBOW	1
GK	10825-02-01	GARDEN HOSE ADAPTER, 3/4" MALE	1
GL	10825-02-01	3/4" GALVANIZED PIPE FITTING, 90° ELBOW	1
GM	10825-02-12	BUMPER SHIM ~ STEEL	1
GN	10825-02-29	SUPPORT BLOCK ~ ALUM	1
GO	10825-02-29	1/2 NPT BRASS HEX NIPPLE	2
GP	10825-02-29	1/2 NPT X 3/8 NPT BRASS REDUCING BUSHING	1
GQ	10825-02-29	3/8 NPT MALE TO FEMALE 90° ELBOW	1
GR	10549-02-29	1/2 NPT LOW PROFILE T-STRAINER, CLEAR BOWL, 50 X 50 MESH	1
GS	10825-02-29	DIAPHRAGM PILOT-OPERATED SOLENOID VALVE, 1/2 NPT, 24 VDC	1
GT1	10825-02-29	SHCS 1/4-20 X 2-3/4 LG. ~ GR8	2
GT2	10825-02-29	1/4 HI-COLLAR LOCKWASHER	2
GU1	10825-02-01	SHCS 5/16-18 X 5/8 LG. ~ GR8	4
GU2	10825-02-01	5/16 LOCKWASHER	4
GW	10825-02-01	STD-WALL GALVANIZED WELDED STEEL THREADED PIPE NIPPLE	1

GX	10825-02-01	ZINC-PLATED STEEL U-BOLT, 1/4-20 X 1-3/8" THREAD LENGTH	1
HC	10825-02-22	COVER PLATE ~ 304 STN. STL.	1
JB	10825-02-01	FHSCS 1/4-20 X 1/2 LG. ~ GR8	4
JC1	10825-02-01	SHCS 1/4-20 X 3/4 LG. ~ GR8	5
JC2	10825-02-01	1/4 LOCKWASHER	5
JD1	10825-02-01	SHCS 1/4-20 X 3/4 LG. ~ GR8	1
JD2	10825-02-01	1/4 LOCKWASHER	1
JD3	10825-02-01	1/4-20 HEX NUT	1
JE	10825-02-01	ONE-HOLE CLAMP FOR 13/16" O.D., 1/2 PIPE/RIGID CONDUIT	1
JG1	10825-02-01	BHSCS 1/4-20 X 1/2 LG. ~ STAINLESS STEEL	4
JG2	10825-02-01	1/4 LOCKWASHER ~ STN. STL.	4
JK1	10825-02-01	SHCS 3/8-16 X 2-1/4 LG. ~ STN. STL.	4
JK2	10825-02-01	3/8 LOCKWASHER ~ STN. STL.	4
JL1	10825-02-01	BHSCS 1/4-20 X 3" LG. ~ STN. STL.	4
JL2	10825-02-01	1/4 LOCKWASHER ~ STN. STL.	4
JL3	10825-02-01	1/4 USS (OVERSIZED) LOCKWASHER ~ STN. STL.	4
JL4	10825-02-01	1/4-20 HEX NUT ~ STN. STL.	4
JM1	10825-02-01	SHCS 3/8-16 X 2-1/4 LG. ~ STN. STL.	2
JM2	10825-02-01	3/8 LOCKWASHER ~ STN. STL.	2
JN1	10825-02-01	BHSCS #10-32 X 3/8 LG. ~ STN. STL.	3
JN2	10825-02-01	#10 LOCKWASHER ~ STN. STL.	3
JN3	10825-02-01	#10 FLATWASHER ~ STN. STL.	3
JN4	10825-02-01	#10-32 HEX NUT ~ STN. STL.	3
JQ1	10825-02-01	SHCS 5/16-18 X 1-1/4 LG. ~ GR8	4
JQ2	10825-02-01	5/16 LOCKWASHER	4
JQ3	10825-02-01	5/16 FLAT WASHER	4
ZA	10825-02-01	HINGED ENCLOSURE, 16" X 10" X 6"	1
ZB	10825-02-01	ENCLOSURE PANEL	1
ZC	10825-02-01	DIN RAIL, 35mm X 7.5mm X 1M LG, CUT TO SUIT	2
ZD	10825-02-01	DIN RAIL TERMINAL BLOCKS	54
ZE	10825-02-01	END BARRIER	2
ZF	10825-02-01	END PLATE	1
ZG	10825-02-01	10 POSITION CIRCUIT BRIDGE	2
ZH1	10825-02-01	24 POLE MALE INSERT, SCREW TERMINALS	2
ZH2	10825-02-01	24 POLE FEMALE INSERT, SCREW TERMINALS	2
ZH3	10825-02-01	SIDE ENTRY HOOD, DOUBLE LEVER, Pg29 THREADED OPENING,	2
ZH4	10825-02-01	BULKHEAD BASE, DOUBLE LEVER	2
ZH5	10825-02-01	1" NPT THREAD ADAPTER	2
ZI	10825-02-01	FLEXIBLE PUR CONTROL CABLE, 18 AWG, 25 CONDUCTOR	50'
ZJ	10825-02-01	NYLON LIQUID-TIGHT CORD GRIP, STRAIGHT STANDARD, 1" NPT	2
ZK	10825-02-01	CORD GRIP, 2 HOLE, .20-.24 WIRE DIA., 1/2" NPT	6
ZL	10825-02-01	CORD GRIP, 1 HOLE, .20-.35 WIRE DIA., 1/2" NPT	3
ZM	10825-02-01	20-3 MULTI-CONDUCTOR CABLE, PVC INSULATED	150'
ZN	10825-02-01	1/4" DIA. HOSE	25'
ZO	10825-02-31	JB MOUNTING PLATE ~ CRS	2
ZR	10825-02-31	HEAD BRACKET MOUNTING PLATE ~ CRS	1
ZT	10825-02-01	NYLON LIQUID-TIGHT CORD GRIP, STRAIGHT STANDARD, 1/2" NPT	1
ZU	10825-02-01	IEC TERMINAL BLOCK MARKERS	162

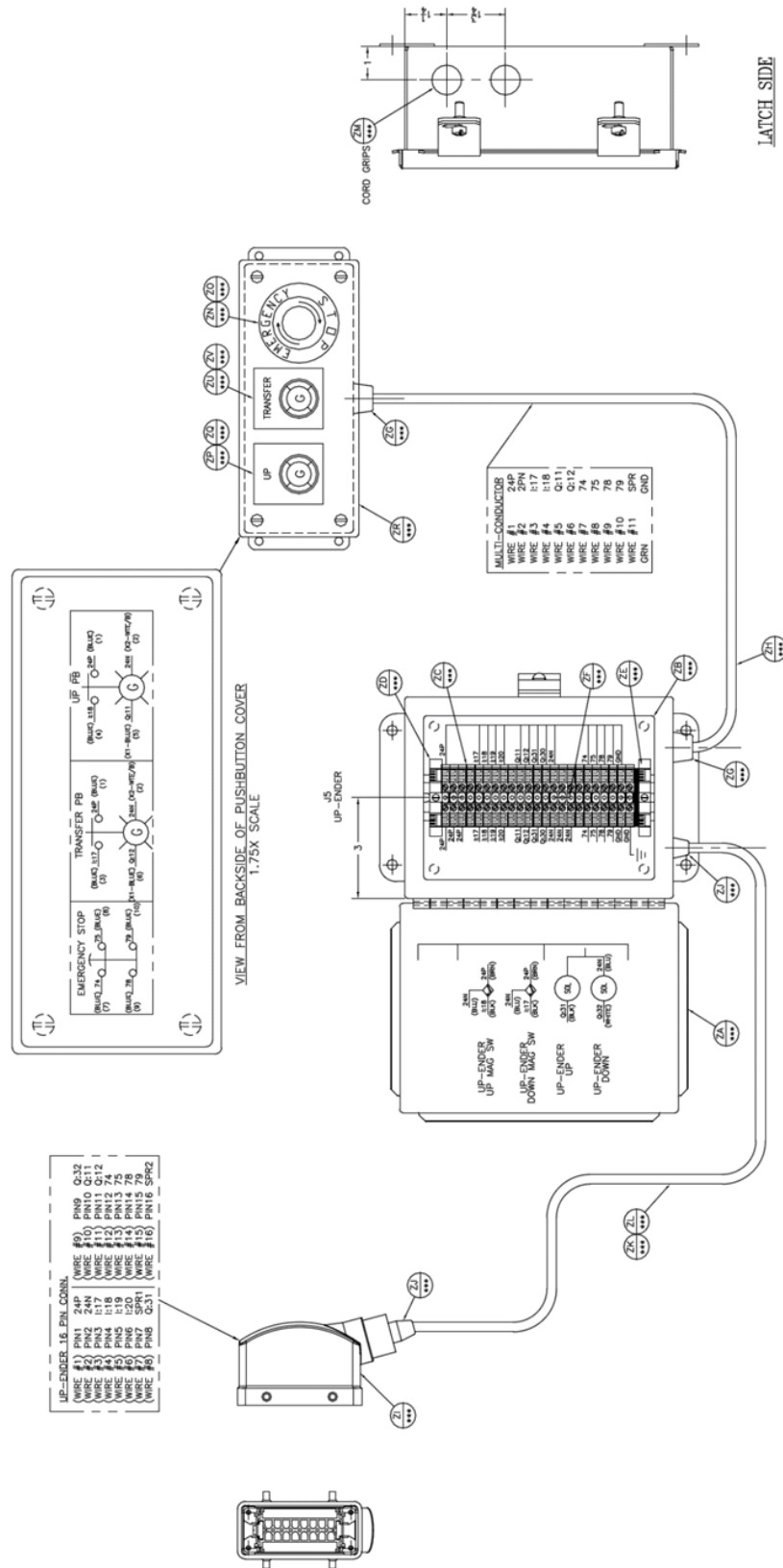
ZV1	10825-02-01	IEC DOUBLE-LEVEL, FEED THROUGH DIN RAIL TERMINAL BLOCKS	12
ZV2	10825-02-01	END BARRIER	2
ZV3	10825-02-01	10 POSITION CIRCUIT BRIDGE	1
ZW	10825-02-01	IEC DIN RAIL GROUNDING TERMINAL BLOCK	3
ZX1	10825-02-01	INSERT 3A 7-POLE FEMALE CRIMP 600V 10A	1
ZX2	10825-02-01	INSERT 3A 7-POLE MALE CRIMP 600V 10A	1
ZX3	10825-02-01	CRIMP 10AMP FEMALE FEMALE INSERTS	1
ZX4	10825-02-01	CRIMP 10AMP MALE INSERTS	1
ZX5	10825-02-01	HOOD 3A TOP ENTRY Pg11 METAL 2-PEG	1
ZX6	10825-02-01	BASE 3A BULKHEAD METAL SGL-LVR	1
ZX7	10825-02-01	SUBMERSIBLE LIQUID-TIGHT CORD GRIP, PG-11 THREAD SIZE	1

2.15.2 1104012 - ASSY, UPENDER, STANDARD, LH CONFIG



2.15.3 1104701 - ASSY, UPENDER, STANDARD, RH CONFIG WITH INLET

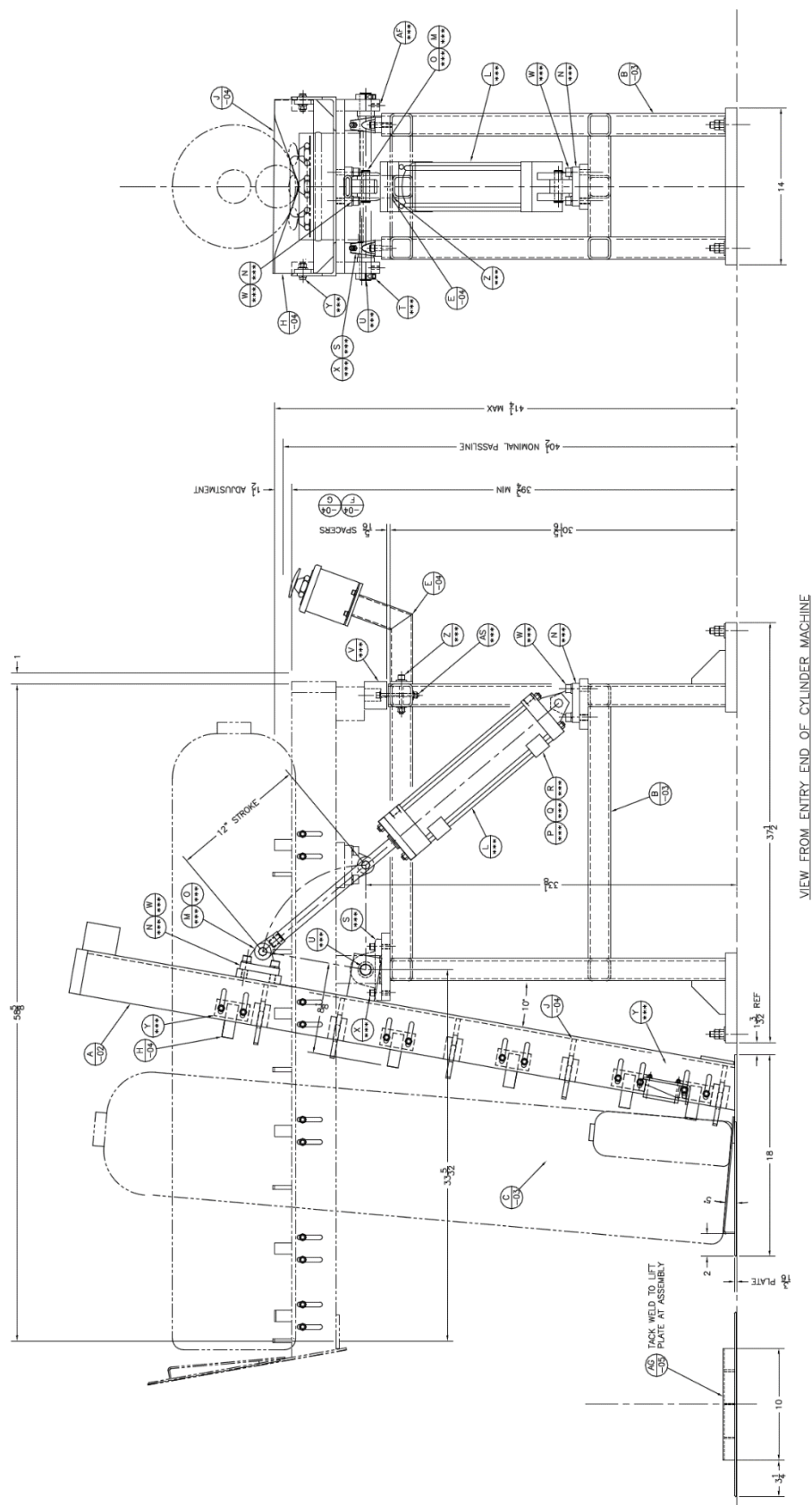
2.15.4 1104711 - ASSY, UPENDER, STANDARD, LH CONFIG WITH INLET



ITEM NO.	PART NO.	DESCRIPTION	QTY
A	10825-05-02	UP-ENDER TILT FRAME - WS	1
B	10825-05-03	SUPPORT FRAME - WS	1
C	10825-05-03	SIDE GUIDE - WS	1
E	10825-05-04	BOX MOUNT - WS	1
F	10825-05-04	SPACER - CRS	1
H	10825-05-04	SUPPORT BAR - WS	5
L	10825-05-01	CYLINDER NFPA ALUMINUM BODY AIR CYLINDER, 13" STROKE	1
M	10825-05-01	CYLINDER ROD CLEVIS FOR 3/4-16 THREADS	1
N	10825-05-01	CYLINDER EYE FOR BRACKET 3/4" DIAMETER PIN	2
O	10825-05-01	CYLINDER PIVOT PIN 3/4" DIAMETER	2
P	10825-05-01	REED SWITCH, TIE ROD MOUNT, QUICK DISCONNECT, LED, W/ 10 METER CABLE	2
S	10825-05-01	1" BALL BEARING PILLOW BLOCK, STD DUTY	2
T	10825-05-01	CLAMPING SHAFT COLLAR FOR 1" DIAMETER, BLACK-OXIDE 1215	2
U	10825-05-01	1" DIA CRS X 16 3/4" LG	1
V	10825-05-01	DOCK BUMPER, HARD RUBBER, 2-1/2" HIGH, 7-3/4" WIDE, 2" DEEP	1
W1	10825-05-04	HHCS 1/2-13 X 1 3/4 LG ~ GR 8 (ZINC)	8
W2	10825-05-04	1/2 LOCKWASHER (ZINC)	8
X1	10825-05-01	SHCS 3/8-16 X 1 1/2 LG ~ GR 8 (ZINC)	4
X2	10825-05-01	3/8 LOCKWASHER (ZINC)	4
Y1	10825-05-01	LOW-PROFILE SOCKET HEAD SCREW, 3/8-16 X 1-1/2 LG. ~ GR 8	24
Y2	10825-05-01	3/8-16 HEX NUT ~ GR 8 (ZINC)	24
Y3	10825-05-01	3/8 LOCKWASHER (ZINC)	48
Y4	10825-05-01	3/8 FLATWASHER (ZINC)	24
Z1	10825-05-01	SHCS 3/8-16 X 3-1/4 LG. ~ GR 8 (ZINC)	2
Z2	10825-05-01	3/8-16 HEX NUT ~ GR 8 (ZINC)	2
Z3	10825-05-01	3/8 LOCKWASHER (ZINC)	2
Z4	10825-05-01	3/8 FLATWASHER (ZINC)	2
AA	10825-05-01	1/2" TUBE X 1/2NPT RIGHT ANGLE FLOW CONTROL	2
AB	10825-05-01	DOUBLE SOLENOID AIR VALVE, THREE-POSITION BLOCKED	1
AF	10825-05-01	CUP POINT SETSCREW 5/16-18 X 3/4 LG ~ GR 8 (ZINC)	2
AG	10825-05-05	RAMP PLATE - WS	1
AM	10825-05-01	1/2" TUBE TO 3/8"NPT STRAIGHT	3
AN	10825-05-01	3/8" NPT MUFFLER	2
AP	10825-05-01	1/8"NPT MUFFLER	1
AQ	10825-05-01	1/8 NPT SQ. HD. PLUG	1
AR1	10825-05-01	SHCS #10-24 X 1 1/2 LG ~ GR 8 (ZINC)	2
AR2	10825-05-01	HI-COLLAR LOCKWASHER #10 (ZINC)	2
AS1	10825-05-01	SHCS 5/16-18 X 3-3/4 LG ~ GR 8 (ZINC)	2
AS2	10825-05-01	5/16-16 HEX NUT ~ GR 8 (ZINC)	2
AS3	10825-05-01	5/16 LOCKWASHER ~ GR 8 (ZINC)	4
AS4	10825-05-01	5/16 FLATWASHER ~ GR 8 (ZINC)	4
ZA1	10825-05-01	HINGED ENCLOSURE, 8" X 6" X 3.5"	1
ZA3	10825-05-01	BHSCS 1/4-20 X 1/2 LG. ~ GR8 (ZINC)	4
ZA4	10825-05-01	1/4 LOCKWASHER (ZINC)	4
ZB	10825-05-01	ENCLOSURE PANEL	1
ZC	10825-05-01	IEC DIN RAIL TERMINAL BLOCKS	16

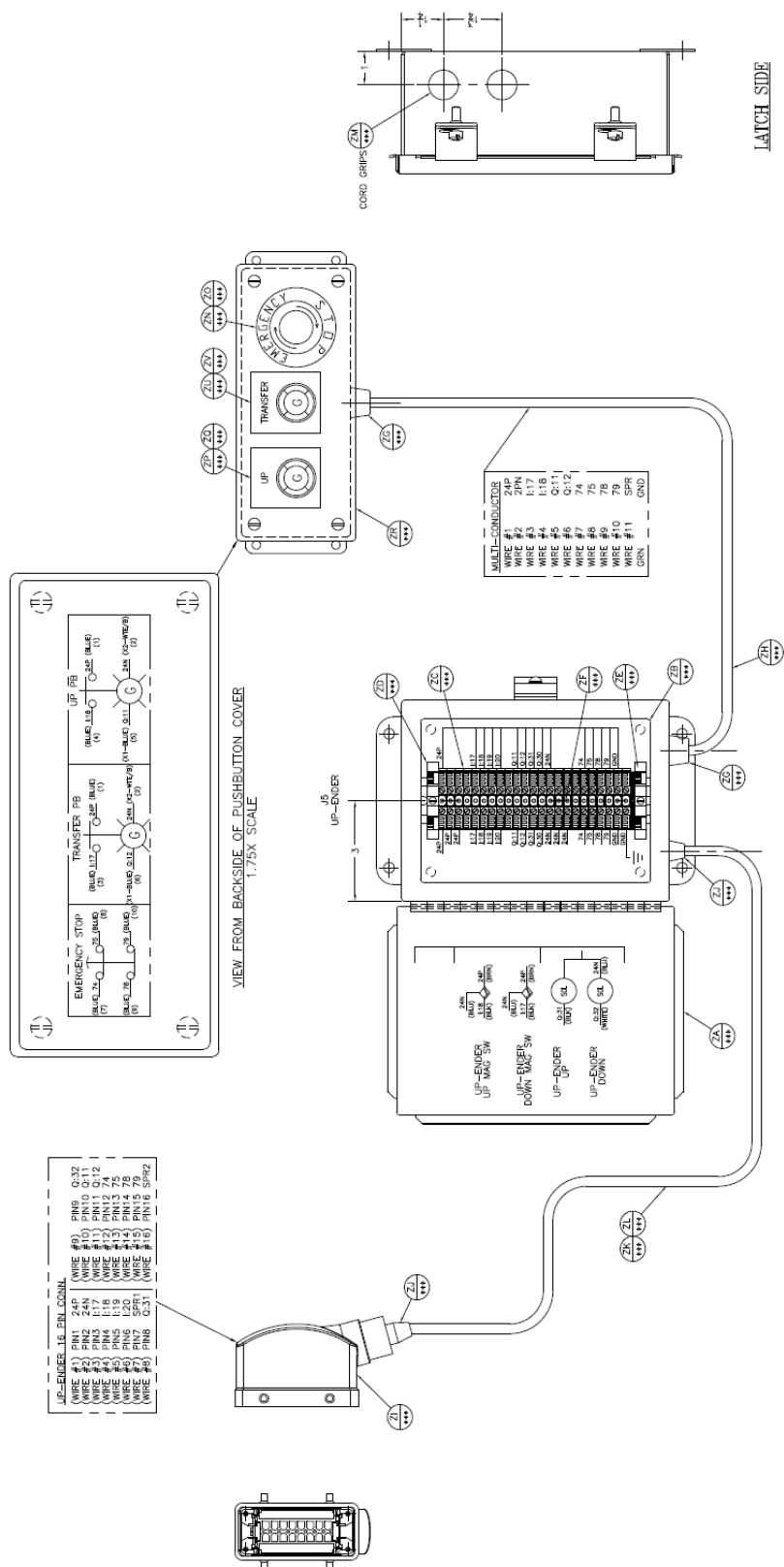
ZD	10825-05-01	END BARRIER	2
ZE	10825-05-01	END PLATE	1
ZF	10825-05-01	10 POSITION CIRCUIT BRIDGE	1
ZG	10825-05-01	FLEXIBLE CONDUIT FITTING, 1/2" NPT 90 DEGREE	2
ZH	10825-05-01	FLEXIBLE CONDUIT 1/2" DIA,	5'
ZI1	10825-05-01	16 POLE MALE INSERT, SCREW TERMINALS	1
ZI2	10825-05-01	16 POLE FEMALE INSERT, SCREW TERMINALS	1
ZI3	10825-05-01	SIDE ENTRY HOOD, DOUBLE LEVER, Pg21 THREADED OPENING	1
ZI4	10825-05-01	BULKHEAD BASE, DOUBLE LEVER	1
ZI5	10825-05-01	Pg21 TO 3/4" NPT THREAD ADAPTER	1
ZJ	10825-05-01	FLEXIBLE CONDUIT FITTING, 3/4" NPT STRAIGHT	1
ZJ1	10825-05-01	FLEXIBLE CONDUIT FITTING, 3/4" NPT 90 DEGREE	1
ZK	10825-05-01	FLEXIBLE CONDUIT 3/4" DIA	20'
ZL	10825-05-01	FLEXIBLE PUR CONTROL CABLE, 18 AWG, 18 CONDUCTOR	20'
ZM	10825-05-01	CORD GRIP, 2 HOLE, .20-.24 WIRE DIA., 1/2" NPT	2
ZN	10825-05-01	30mm TWO-POSITION PUSH-PULL BUTTON, RED	1
ZO	10825-05-01	30mm ROUND YELLOW ESTOP LEGEND PLATE	1
ZP	10825-05-01	24V GREEN ILLUMINATED PUSHBUTTON, 1 NO CONTACT	1
ZQ	10825-05-01	"UP" LEGEND PLATE, BLACK BACKGROUND	1
ZR	10825-05-01	PUSH BUTTON STEEL ENCLOSURE, 3 HOLES	1
ZT1	10825-05-01	SHCS 1/4-20 X 3/8 LG -GR 8	4
ZT2	10825-05-01	LOCKWASHER 1/4	4
ZU	10825-05-01	24V GREEN ILLUMINATED PUSHBUTTON, 1 NO CONTACT	1
ZV	10825-05-01	"TRANSFER" LEGEND PLATE, BLACK BACKGROUND	1
ZW	10825-05-01	IEC TERMINAL BLOCK MARKERS	32

2.16 ASSY, UPENDER, PASS THROUGH



2.16.3 1104702 - ASSY, UPENDER, PASS THROUGH, RH CONFIG WITH INLET

2.16.4 1104712 - ASSY, UPENDER, PASS THROUGH, LH CONFIG WITH INLET



ITEM NO.	PART NO.	DESCRIPTION	QTY
A	10600-05-02	UP-ENDER TILT FRAME WITH CARRY OVER ARM GUIDES- WS	1
B	10600-05-03	SUPPORT FRAME - WS	1
E	10600-05-04	BOX MOUNT - WS	1
F	10600-05-04	SPACER - CRS	1
G	10600-05-04	SPACER - CRS	1
H	10600-05-04	SUPPORT BAR - WS	5
J	10600-05-04	REMOVABLE CARRY OVER ARMS - STL	5
L	10600-05-01	AIR CYLINDER, 4" BORE X 13" STROKE, 1" ROD	1
M	10600-05-01	ROD CLEVIS	1
N	10600-05-01	EYE BRACKET	2
O	10600-05-01	PIVOT PIN	2
P	10600-05-01	REED SWITCH, TIE ROD MOUNT, QUICK DISCONNECT, LED	2
S	10600-05-01	1" BALL BEARING PILLOW BLOCK, STD DUTY	2
T	10600-05-01	1" SHAFT COLLAR	2
U	10600-05-01	1" DIA CRS X 16 3/4" LG	1
V	10600-05-01	SOLID RUBBER BUMPER	1
W1	10600-05-01	HHCS 1/2-13 X 1 3/4 LG - GR 8	8
W2	10600-05-01	LOCKWASHER 1/2	8
X1	10600-05-01	SHCS 3/8-16 X 1 1/2 LG - GR 8	4
X2	10600-05-01	LOCKWASHER 3/8	4
Y1	10600-05-01	LOW HD SOC CAPSCREW 3/8-16 X 1 1/2 LG - GR 8	28
Y2	10600-05-01	HEX NUT 3/8-16	28
Y3	10600-05-01	LOCKWASHER 3/8	28
Y4	10600-05-01	FLAT WASHER 3/8	28
Z1	10600-05-01	SHCS 3/8-16 X 3 LG - GR 8	2
Z2	10600-05-01	HEX NUT 3/8-16	2
Z3	10600-05-01	LOCKWASHER 3/8	2
Z4	10600-05-01	FLAT WASHER 3/8	2
AA	10600-05-01	1/2 NPT MALE TO 1/2 TUBE RIGHT ANGLE FLOW CONTROL	2
AB	10600-05-01	DOUBLE SOLENOID AIR VALVE, THREE-POSITION BLOCKED	1
AF	10600-05-01	CUP POINT SETSCREW 5/16-18 X 3/4 LG	2
AG	10600-05-05	RAMP PLATE - WS	1
AM	10600-05-01	1/2 OD TUBE X 3/8 NPT STRAIGHT FITTING	3
AN	10600-05-01	3/8 NPT MUFFLER	2
AP	10600-05-01	1/8 NPT MUFFLER	1
AQ	10600-05-01	1/8 NPT SQ. HD. PLUG	1
AR1	10600-05-01	SHCS #10-24 X 1 1/2 LG - GR 8	6
AR2	10600-05-01	HI-COLLAR LOCKWASHER #10	6
AS1	10600-05-01	SHCS 3/8-16 X 3-3/4 LG - GR 8	2
AS2	10600-05-01	HEX NUT 3/8-16	2
AS3	10600-05-01	LOCKWASHER 3/8	2
AS4	10600-05-01	FLAT WASHER 3/8	2
ZA	10600-05-01	HINGED ENCLOSURE, 8" X 6" X 3.5"	1
ZB	10600-05-01	ENCLOSURE PANEL	1
ZC	10600-05-01	IEC DIN RAIL TERMINAL BLOCKS	16
ZD	10600-05-01	END BARRIER	2

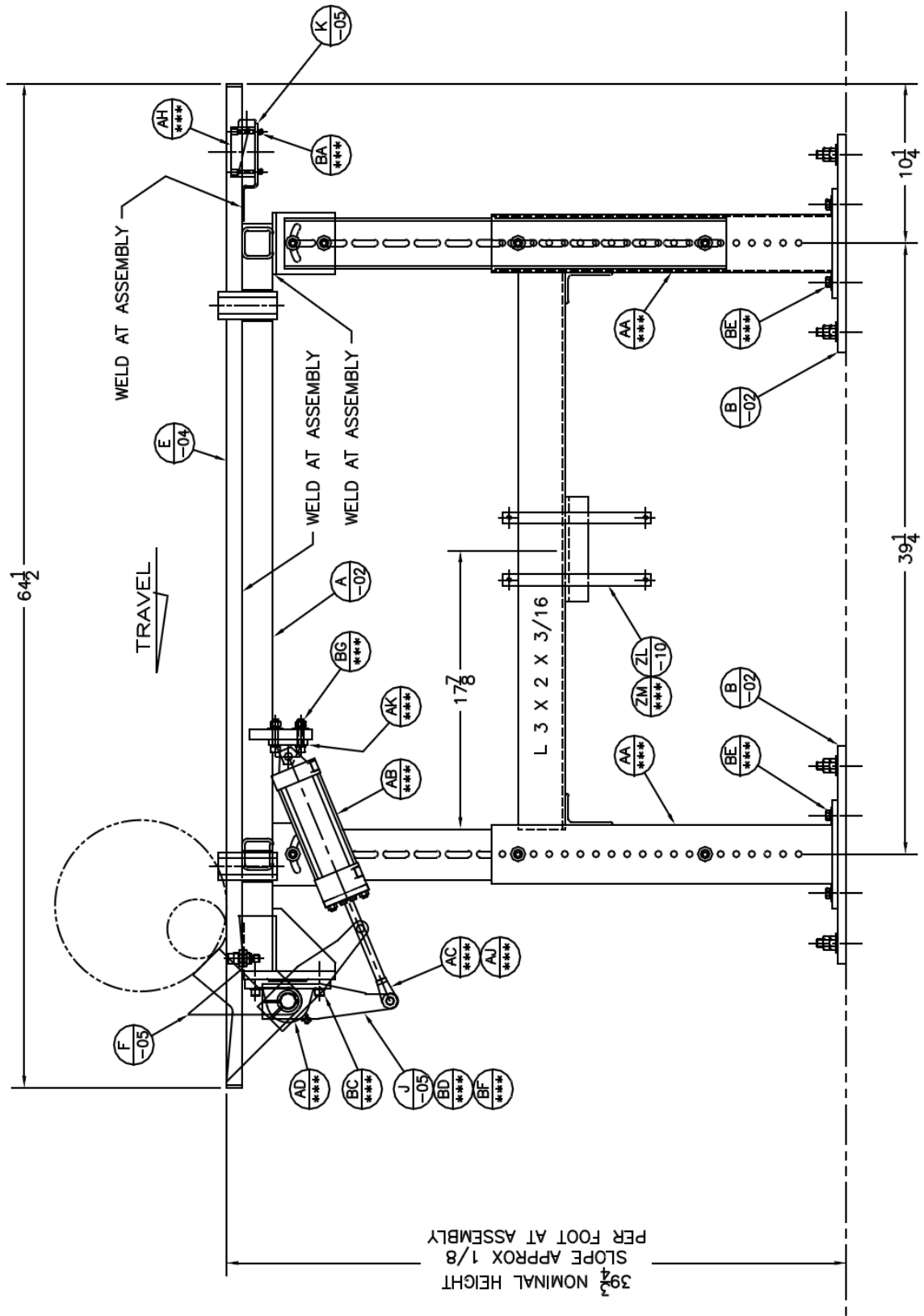
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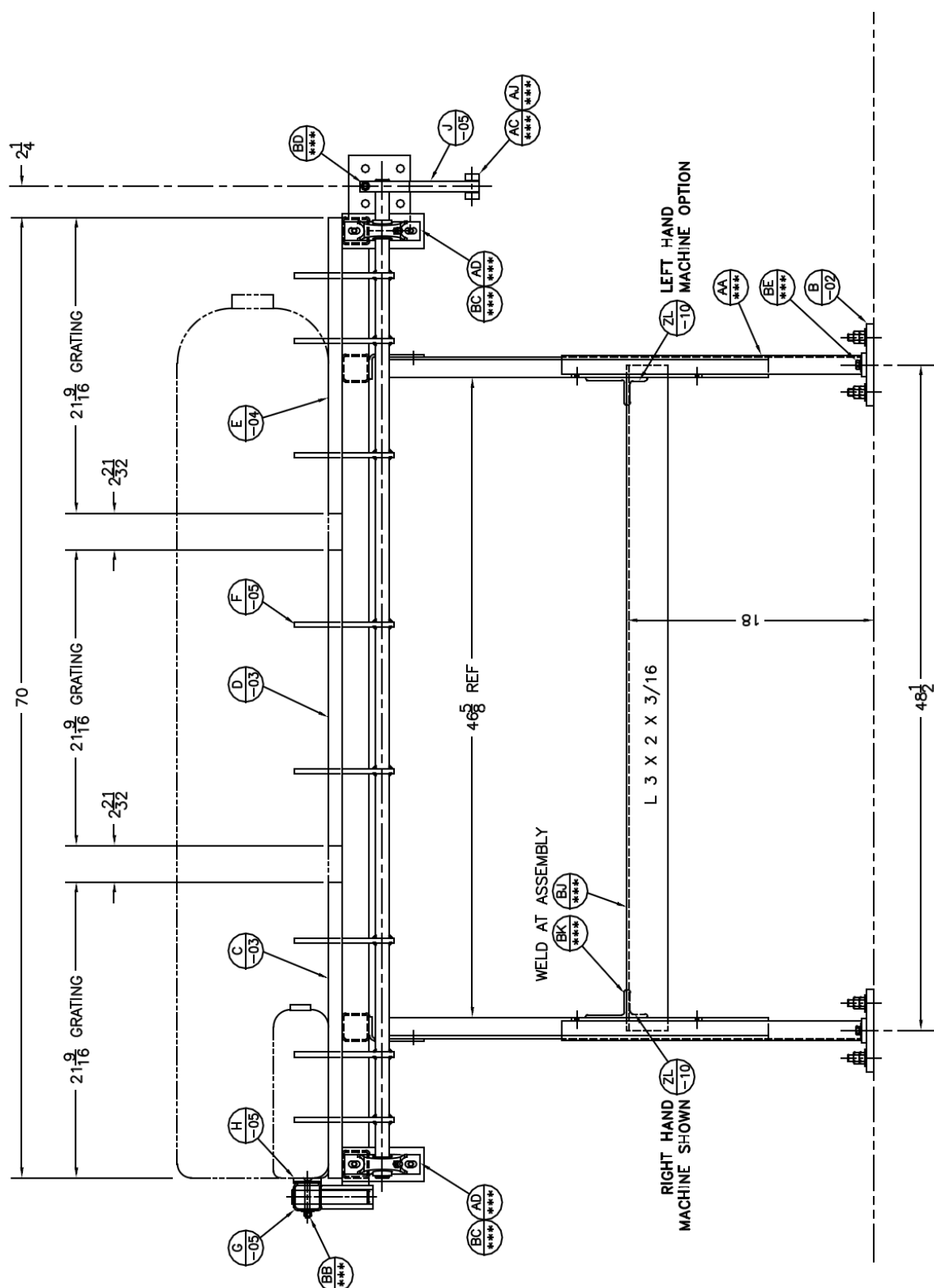
ZE	10600-05-01	END PLATE	1
ZF	10600-05-01	10 POSITION CIRCUIT BRIDGE	1
ZG	10600-05-01	FLEXIBLE CONDUIT FITTING, 1/2" NPT 90 DEGREE, LIGHT DUTY	2
ZH	10600-05-01	FLEXIBLE CONDUIT 1/2" DIA	5'
ZI1	10600-05-01	16 POLE MALE INSERT, SCREW TERMINALS	1
ZI2	10600-05-01	16 POLE FEMALE INSERT, SCREW TERMINALS	1
ZI3	10600-05-01	SIDE ENTRY HOOD, DOUBLE LEVER, Pg21 THREADED OPENING	1
ZI4	10600-05-01	BULKHEAD BASE, DOUBLE LEVER	1
ZI5	10600-05-01	Pg21 TO 3/4" NPT THREAD ADAPTER	1
ZJ	10600-05-01	FLEXIBLE CONDUIT FITTING, 3/4" NPT STRAIGHT	1
ZJ1	10600-05-01	FLEXIBLE CONDUIT FITTING, 3/4" NPT 90 DEGREE	1
ZK	10600-05-01	FLEXIBLE CONDUIT 3/4" DIA	25'
ZL	10600-05-01	FLEXIBLE PUR CONTROL CABLE, 18 AWG, 18 CONDUCTOR	25'
ZM	10600-05-01	CORD GRIP, 2 HOLE, .20-.24 WIRE DIA., 1/2" NPT	2
ZN	10600-05-01	3TWO-POSITION PUSH-PULL BUTTON, RED MUSHROOM HEAD	1
ZO	10600-05-01	ROUND YELLOW ESTOP LEGEND PLATE	1
ZP	10600-05-01	GREEN ILLUMINATED PUSHBUTTON	1
ZQ	10600-05-01	"UP" LEGEND PLATE, BLACK BACKGROUND	1
ZR	10600-05-01	PUSH BUTTON STEEL ENCLOSURE	1
ZT1	10600-05-01	SHCS 1/4-20 X 3/8 LG -GR 8	4
ZT2	10600-05-01	LOCKWASHER 1/4	4
ZU	10600-05-01	24V GREEN ILLUMINATED PUSHBUTTON	1
ZV	10600-05-01	"TRANSFER" LEGEND PLATE, BLACK BACKGROUND	1
ZW	10600-05-01	IEC TERMINAL BLOCK MARKERS	32

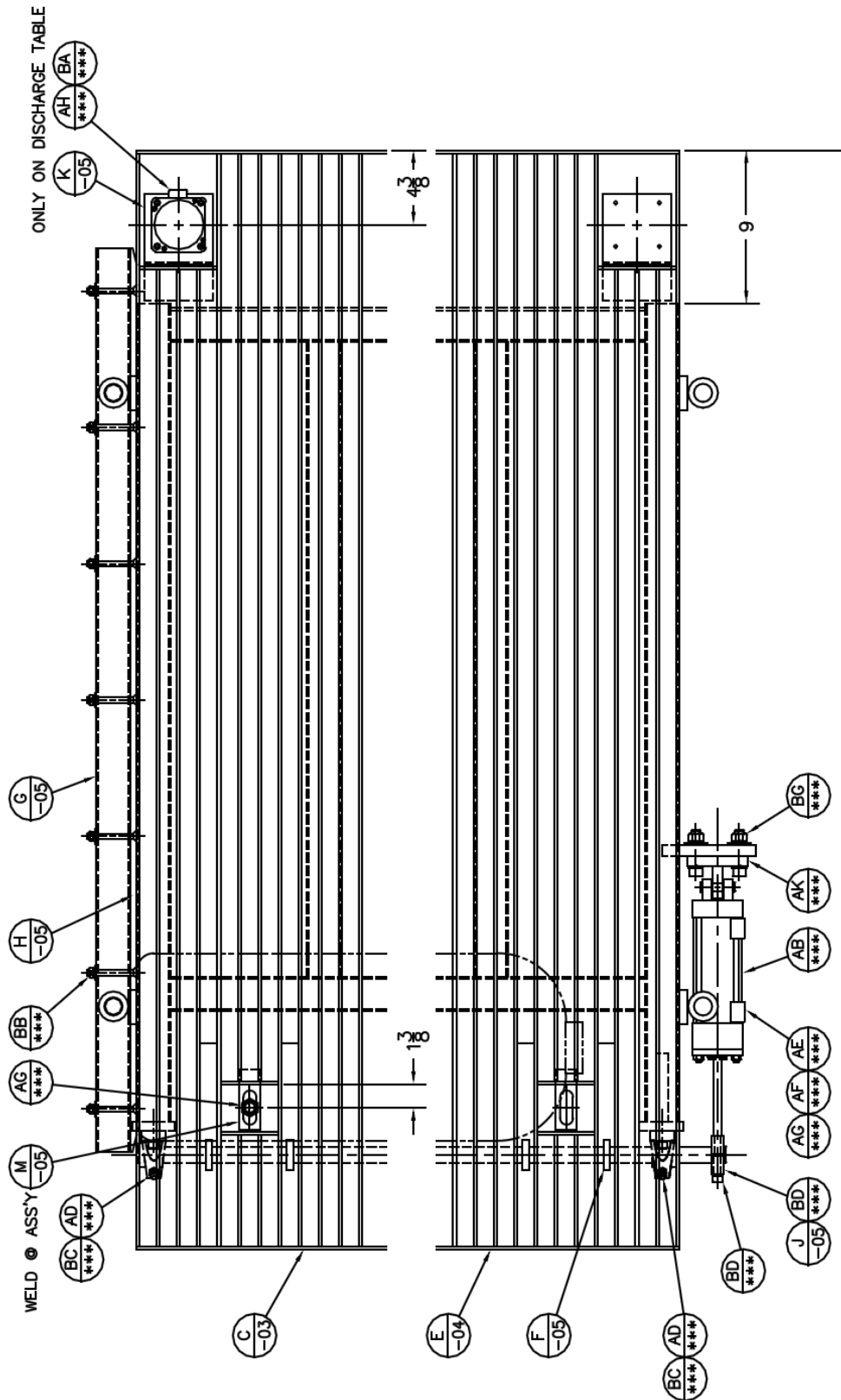
ITEM NO.	PART NO.	DESCRIPTION	QTY
A	10825-03-02	SUPPORT FRAME - WS	1
B	10825-03-03	LIFT FRAME - WS	1
C	10825-03-03	BASE PLATE - STEEL	2
D	10825-03-04	ROLL - STEEL	8
E	10825-03-04	ARM - CRS	1
F	10825-03-04	TRUNNION - CRS	2
G	10825-03-04	CLEVIS - CRS	1
H	10825-03-04	BRG RISER - CRS	16
J	10825-03-04	BRG SHIM - STEEL	3
K	10825-03-05	SWITCH BRACKET - WS	1
L	10825-03-05	END STOP - UHMW	1
M	10825-03-01	AIR CYLINDER, 4" BORE X 9" STROKE, 1" ROD	1
N	10825-03-01	1" BALL BEARING PILLOW BLOCK,STD DUTY NP SERIES	3
O	10825-03-01	REED SWITCH, TIE ROD MOUNT, QUICK DISCONNECT, LED	2
P	10825-03-08	JACK MOUNT ~ STL	4
R	10825-03-01	ADJUSTABLE HEIGHT CONVEYOR LEG ASSEMBLY	4
S	10825-03-01	BASE MOUNT PLAIN BEARING PILLOW BLOCK, 1/2" BORE	16
T	10825-03-01	BRZ BUSH 1" ID X 1 1/4" OD X 1" LG	2
U	10825-03-01	BRZ BUSH 1/2" ID X 5/8" OD X 1/2" LG SYMMCO #SS-1620-8	2
V	10825-03-01	BRZ BUSH 1/2" ID X 5/8" OD X 3/4" LG	1
W	10825-03-01	THRUST WASHER 1/2 ID X 1 OD X 3/32 SYMMCO #ST-1632-3	32
X	10825-03-01	PIVOT PIN	1
Y	10825-03-01	KEY 1/4 X 1/4 X 1 1/2 LG	1
Z	10825-03-01	SHCS 3/8-16 X 1 1/2, FL WA, LW - GR 8	6
AA	10825-03-01	SHCS 3/8-16 X 4, HI-COLLAR - GR 8	4
AB	10825-03-01	SHCS 1/4-20 X 3, LW - GR 8	32
AC	10825-03-01	SHCS 5/16-18 X 1, LW - GR 8	2
AD	10825-03-01	SHCS 3/8-16 X 2 1/4, LW - GR 8	1
AE	10825-03-01	HX HD CAPSCREW 3/8-16 X 3/4, LW, FL WASHER - GR 8	8
AF	10825-03-01	FLAT HD CAPSCREW 5/16-18 X 5/8	4
AG	10825-03-01	L 3 X 2 X 3/16 X 52" LG	2
AH	10825-03-01	3-WIRE DC INDUCTIVE PROXIMITY SWITCH	2
AJ	10825-03-01	SHCS #10-24 X 1 3/4, HEX NUT, FLAT WASHER, LW - GR 8	4
AK	10825-03-01	1/2 NPT MALE TO 1/2 TUBE RIGHT ANGLE FLOW CONTROL	2
AL	10825-03-01	DOUBLE SOLENOID AIR VALVE, THREE-POSITION BLOCKED	2
AM	10825-03-01	L 3 X 2 X 3/16 X 15 1/2" LG	2
AN	10825-03-06	TRAY - STN STL	1
AO	10825-03-06	TRAY - STN STL	1
AP	10825-03-01	SHCS 1/4-20 X 2 1/2, HX NUT, LW , (2) FL WASHERS- GR 8	5
AQ	10825-03-01	1/2 OD TUBE X 3/8 NPT STRAIGHT FITTING	6
AR	10825-03-01	3/8 NPT MUFFLER	4
AS	10825-03-01	1/8 NPT MUFFLER	2
AT	10825-03-01	1/8 NPT SQ. HD. PLUG	2
AU	10825-03-01	1/2 OD TUBE TEE	1
AV	10825-03-01	ALL THREAD 3/4-10 X 14" LG., (2) HEX NUTS & HEX JAM NUT ~ GR8	4
BA	10825-03-10	JB MOUNTING PLATE ~ W.S.	1
ZA	10825-03-01	HINGED ENCLOSURE, 8" X 6" X 3.5"	1

ZB	10825-03-01	ENCLOSURE PANEL	1
ZC	10825-03-01	IEC DIN RAIL TERMINAL BLOCKS	18
ZD	10825-03-01	END BARRIER	2
ZE	10825-03-01	END PLATE	1
ZF	10825-03-01	10 POSITION CIRCUIT BRIDGE	1
ZI1	10825-03-01	16 POLE MALE INSERT, SCREW TERMINALS	1
ZI3	10825-03-01	SIDE ENTRY HOOD, DOUBLE LEVER, Pg21 THREADED OPENING	1
ZI5	10825-03-01	Pg21 TO 3/4" NPT THREAD ADAPTER	1
ZJ	10825-03-01	FLEXIBLE CONDUIT FITTING, 3/4" NPT STRAIGHT	2
ZK	10825-03-01	FLEXIBLE CONDUIT 3/4" DIA	20'
ZL	10825-03-01	FLEXIBLE PUR CONTROL CABLE, 18 AWG, 18 CONDUCTOR	21.5'
ZM	10825-03-01	2 HOLE, .20-.24 WIRE DIA., 1/2" NPT	1
ZN	10825-03-01	CORD GRIP, 4 HOLE, .20-.24 WIRE DIA., 1/2" NPT	1
ZO	10825-03-01	20-3 MULTI-CONDUCTOR CABLE, PVC INSULATED	45'
ZW	10825-03-01	CORD GRIP, 1 HOLE, .08-.24 WIRE DIA., 1/2" NPT	4
ZX	10825-03-01	IEC TERMINAL BLOCK MARKERS	36
ZZ	10825-03-01	SLOTTED DIN RAIL, 35mm X 7.5mm X 1M LG - CUT TO SUIT	1

2.18 ASSY, INLET TABLE, 65IN LONG

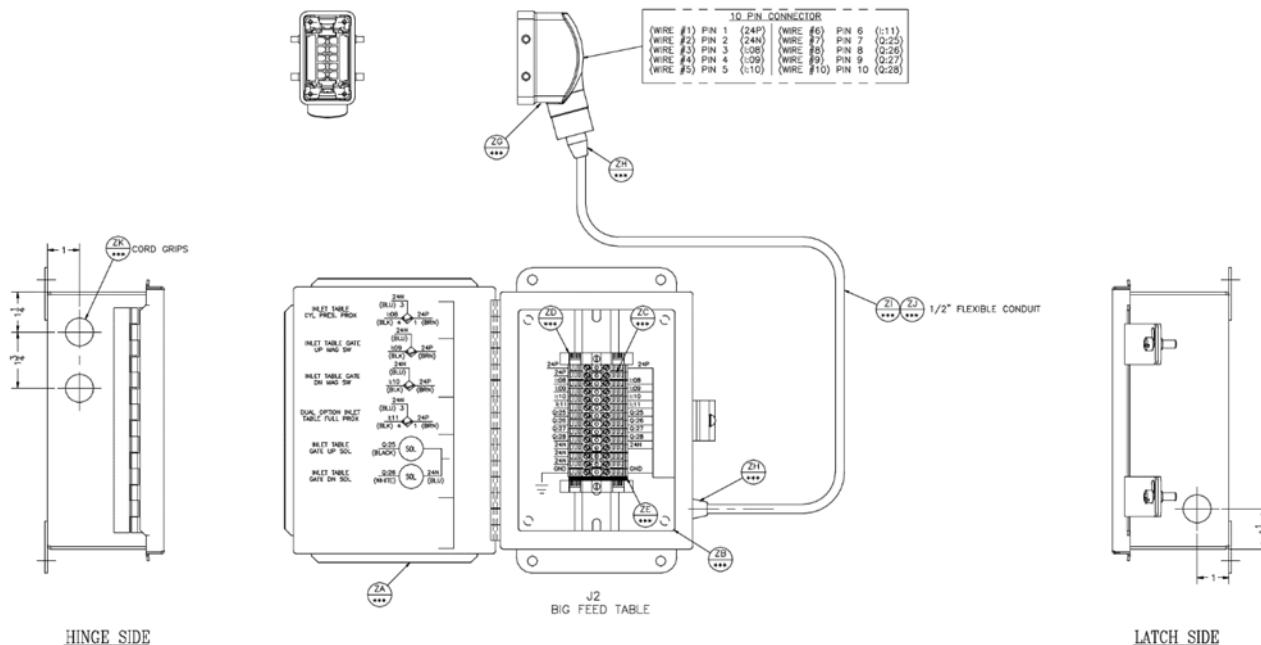






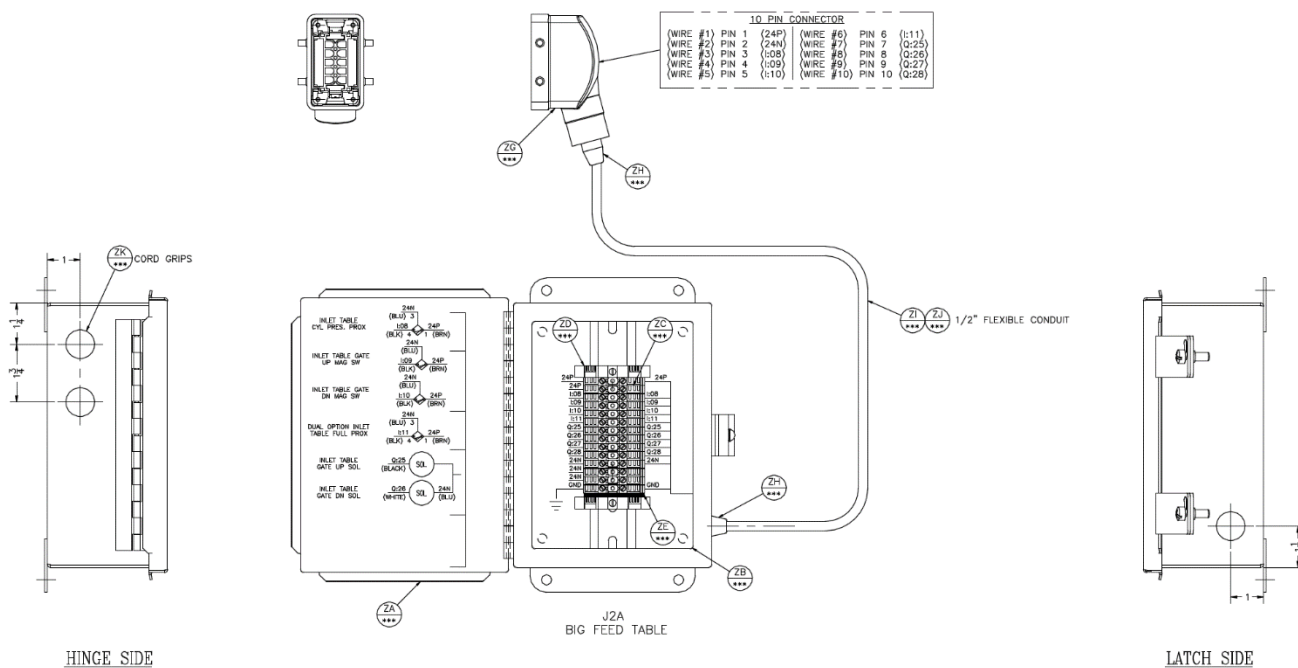
2.18.1 1104005 - ASSY, INLET TABLE, 65IN LG, SINGLE OPT, RH CONFIG

2.18.2 1104015 - ASSY, INLET TABLE, 65IN LG, SINGLE OPT, LH CONFIG



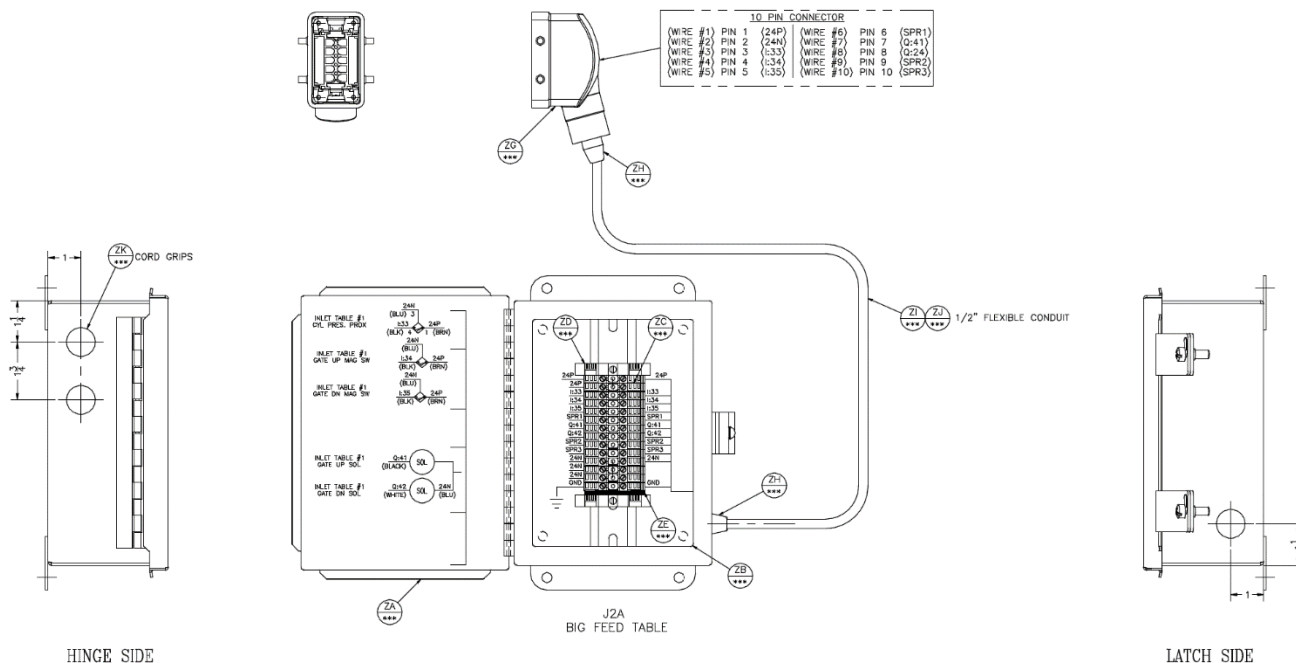
2.18.3 1104006 - ASSY, INLET TABLE, 65IN LG, DUAL OPT, RH CONFIG

2.18.4 1104016 - ASSY, INLET TABLE, 65IN LG, DUAL OPT, LH CONFIG



2.18.5 1104706 - ASSY, INLET TABLE #1, 65IN LG, DUAL OPT, RH CONFIG

2.18.6 1104716 - ASSY, INLET TABLE #1, 65IN LG, DUAL OPT, LH CONFIG



ITEM NO.	PART NO.	DESCRIPTION	QTY
A1	10600-04-02	SUPPORT FRAME - W.S.	2
A2	10600-04-02	SUPPORT FRAME - W.S.	2
B	10600-04-02	BASE PLATE - STEEL	16
C	10600-04-03	GRATING ~ W.S.	4
D	10600-04-03	GRATING ~ W.S.	4
E	10600-04-04	GRATING ~ W.S.	4
F	10600-04-05	STOP SHAFT ~ W.S.	4
G	10600-04-05	SIDE GUIDE ~ W.S.	4
H	10600-04-05	SIDE GUIDE ~ UMHW	4
J	10600-04-05	PIVOT ARM ~ STL	4
K	10600-04-05	BRACKET ~ CRS	4
LA	10600-04-09	TRAY ~ WELDED STN. STL.	2
LB	10600-04-09	TRAY ~ WELDED STN. STL.	4
M	10600-04-05	BRACKET ~ 1/8" STL.	8
AA	10600-04-01	ADJUSTABLE HEIGHT CONVEYOR LEG ASSEMBLY	16
AB	10600-04-01	AIR CYLINDER, 2 1/2" BORE X 5" STROKE	4
AC	10600-04-01	ROD CLEVIS, 7/16-20 THREADS	4
AD	10600-04-01	1" BALL BEARING PILLOW BLOCK, STD DUTY NP SERIES	8
AE	10600-04-01	REED SWITCH, TIE ROD MOUNT, QUICK DISCONNECT, LED	8
AG	10600-04-01	18mm BARREL TYPE PROXIMITY SWITCH, THREE-WIRE	4
AH	10600-04-01	3-WIRE DC INDUCTIVE PROXIMITY SWITCH	3
AJ	10600-04-01	PIVOT PIN	4

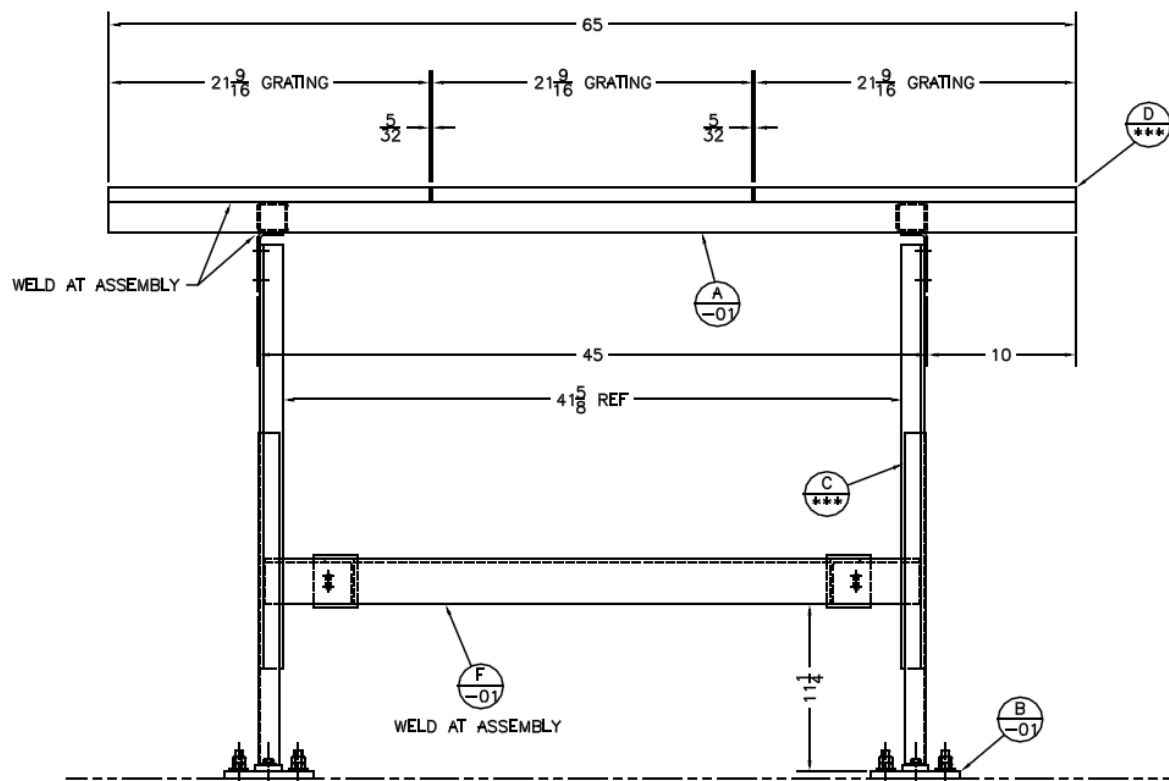
AK	10600-04-01	EYE BRACKET	4
AL	10600-04-06	3/8 NPT MALE TO 3/8 TUBE RIGHT ANGLE FLOW CONTROL	8
AM	10600-04-06	NUMATICS 3/8 OD TUBE X 3/8 NPT STRAIGHT FITTING	8
AN	10600-04-06	NUMATICS 3/8 NPT MUFFLER	8
AP	10600-04-06	NUMATICS 1/8 NPT MUFFLER	4
AQ	10600-04-06	1/8 NPT SQ. HD. PLUG	4
AR	10600-04-06	NUMATICS 1/2 OD TUBE X 3/8 NPT STRAIGHT FITTING	4
BA1	10600-04-01	SHCS #10-24 X 1 3/4 LG - GR 8	8
BA2	10600-04-01	HEX NUT #10-24	8
BA3	10600-04-01	LOCKWASHER #10	8
BA4	10600-04-01	FLAT WASHER #10	8
BB1	10600-04-01	FHSCS 5/16-18 X 3 LG - GR 8	56
BB2	10600-04-01	HEX NUT 5/16-18	56
BB3	10600-04-01	LOCKWASHER 5/16	56
BB4	10600-04-01	FLAT WASHER 5/16	56
BC1	10600-04-01	SHCS 3/8-16 X 1 1/2 LG - GR 8	16
BC2	10600-04-01	LOCKWASHER 3/8	16
BC3	10600-04-01	FLAT WASHER 3/8	16
BD1	10600-04-01	SHCS 3/8-16 X 2 1/4 LG - GR 8	4
BD2	10600-04-01	LOCKWASHER 3/8	4
BE1	10600-04-01	HHCS, 3/8-16 X 3/4 LG - GR 8	32
BE2	10600-04-01	LOCKWASHER 3/8	32
BE3	10600-04-01	FLAT WASHER 3/8	32
BF	10600-04-01	KEY 1/4 X 1/4 X 1 1/4	4
BG1	10600-04-01	SHCS 3/8-16 X 1-3/4 LG - GR 8	16
BG2	10600-04-01	HEX NUT 3/8-16	16
BG3	10600-04-01	LOCKWASHER 3/8	32
BG4	10600-04-01	FLAT WASHER 3/8	16
BH	10600-04-06	DOUBLE SOLENOID AIR VALVE, THREE-POSITION BLOCKED	4
BJ	10600-04-01	ANGLE 3 X 2 X 3/16 X 48 1/2" LG	8
BK	10600-04-01	ANGLE 3 X 2 X 3/16 X 36" LG	8
BL1	10600-04-08	SHCS 1/4-20 X 2-1/2 LG - GR8	28
BL2	10600-04-08	HEX NUT 1/4-20	28
BL3	10600-04-08	LOCKWASHER 1/4	28
BL4	10600-04-08	FLAT WASHER 1/4	28
BM1	10600-04-01	SHCS #10-24 X 1 1/2 LG - GR 8	24
BM2	10600-04-01	HI-COLLAR LOCKWASHER #10	24
ZA	10600-04-11	AUTOMATION DIRECT HINGED ENCLOSURE, 8" X 6" X 3.5"	4
ZB	10600-04-11	ENCLOSURE PANEL	4
ZC	10600-04-11	IEC DIN RAIL TERMINAL BLOCKS	60
ZD	10600-04-11	END BARRIER	8
ZE	10600-04-11	END PLATE	4
ZF	10600-04-11	10 POSITION CIRCUIT BRIDGE	4
ZG1	10600-04-11	10 POLE MALE INSERT, SCREW TERMINALS	4
ZG2	10600-04-11	10 POLE FEMALE INSERT, SCREW TERMINALS	4
ZG3	10600-04-11	SIDE ENTRY HOOD, DOUBLE LEVER, Pg29 THREADED OPENING	4
ZG4	10600-04-11	BULKHEAD BASE, DOUBLE LEVER	4
ZG5	10600-04-11	Pg16 TO 1/2" NPT THREAD ADAPTER	4

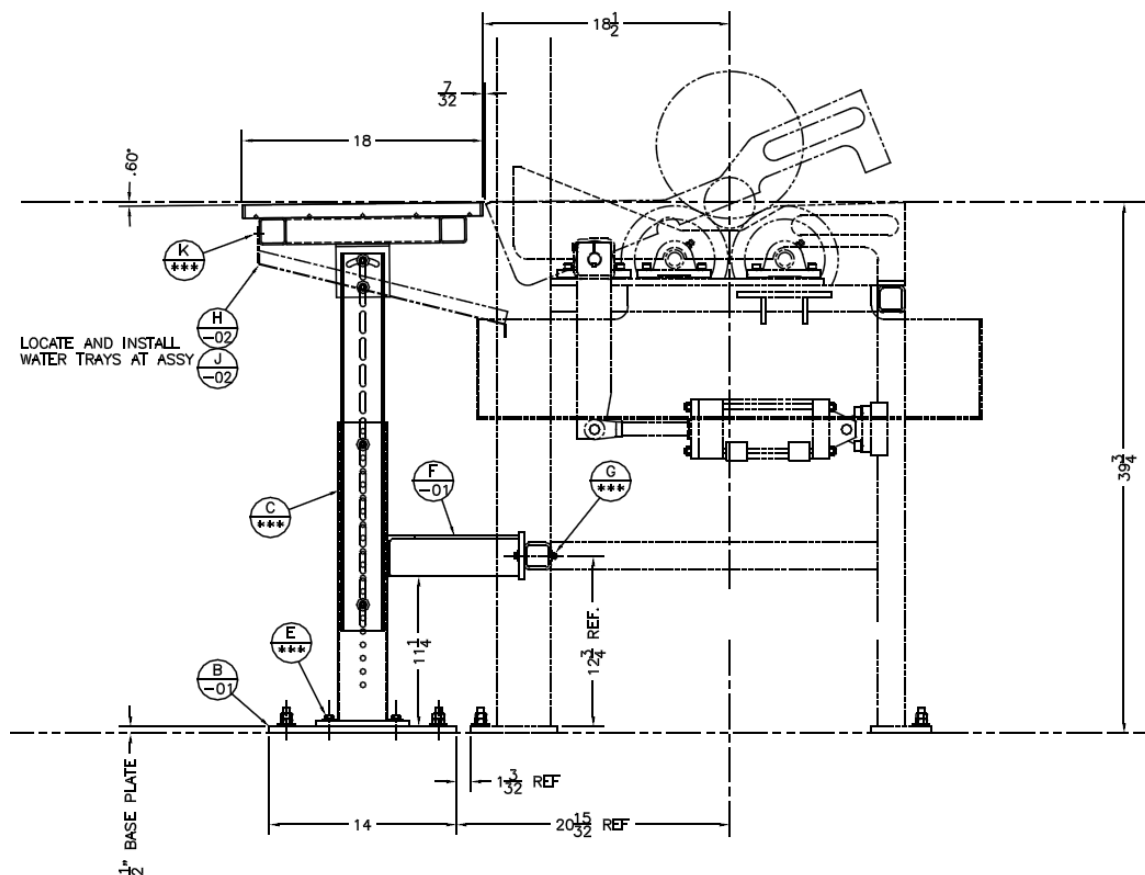
ZH	10600-04-11	FLEXIBLE CONDUIT FITTING, 1/2" NPT STRAIGHT	8
ZI	10600-04-11	FLEXIBLE CONDUIT 1/2" DIA.	90'
ZJ	10600-04-11	FLEXIBLE PUR CONTROL CABLE, 18 AWG, 12 CONDUCTOR	90'
ZK	10600-04-11	CORD GRIP, 2 HOLE, .20-.24 WIRE DIA., 1/2" NPT	12
ZL	10600-04-10	JB MOUNTING PLATE ~ W.S.	4
ZM1	10600-04-01	SHCS 1/4-20 X 3/8 LG -GR 8	16
ZM2	10600-04-01	LOCKWASHER 1/4	16
ZN	10600-04-01	CORD GRIP, 1 HOLE, .20-.35 WIRE DIA., 1/2" NPT	6
ZP	10600-04-01	IEC TERMINAL BLOCK MARKERS	120

2.19 ASSY, OUTLET TABLE, 18IN LG, SINGLE OPT

2.19.1 1104007 - ASSY, OUTLET TABLE, 18IN LG, SINGLE OPT, RH CONFIG

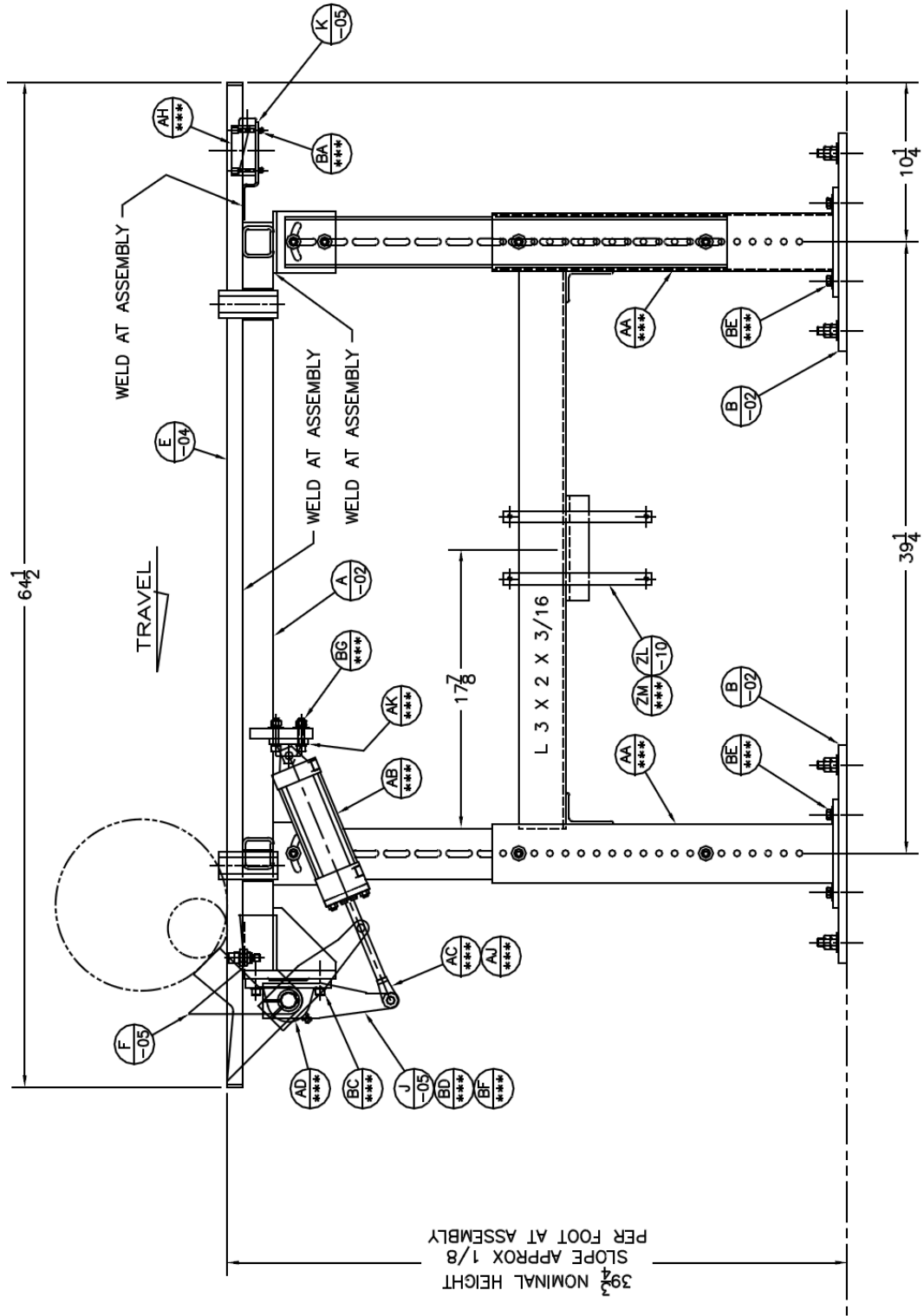
2.19.2 1104017 - ASSY, OUTLET TABLE, 18IN LG, SINGLE OPT, LH CONFIG

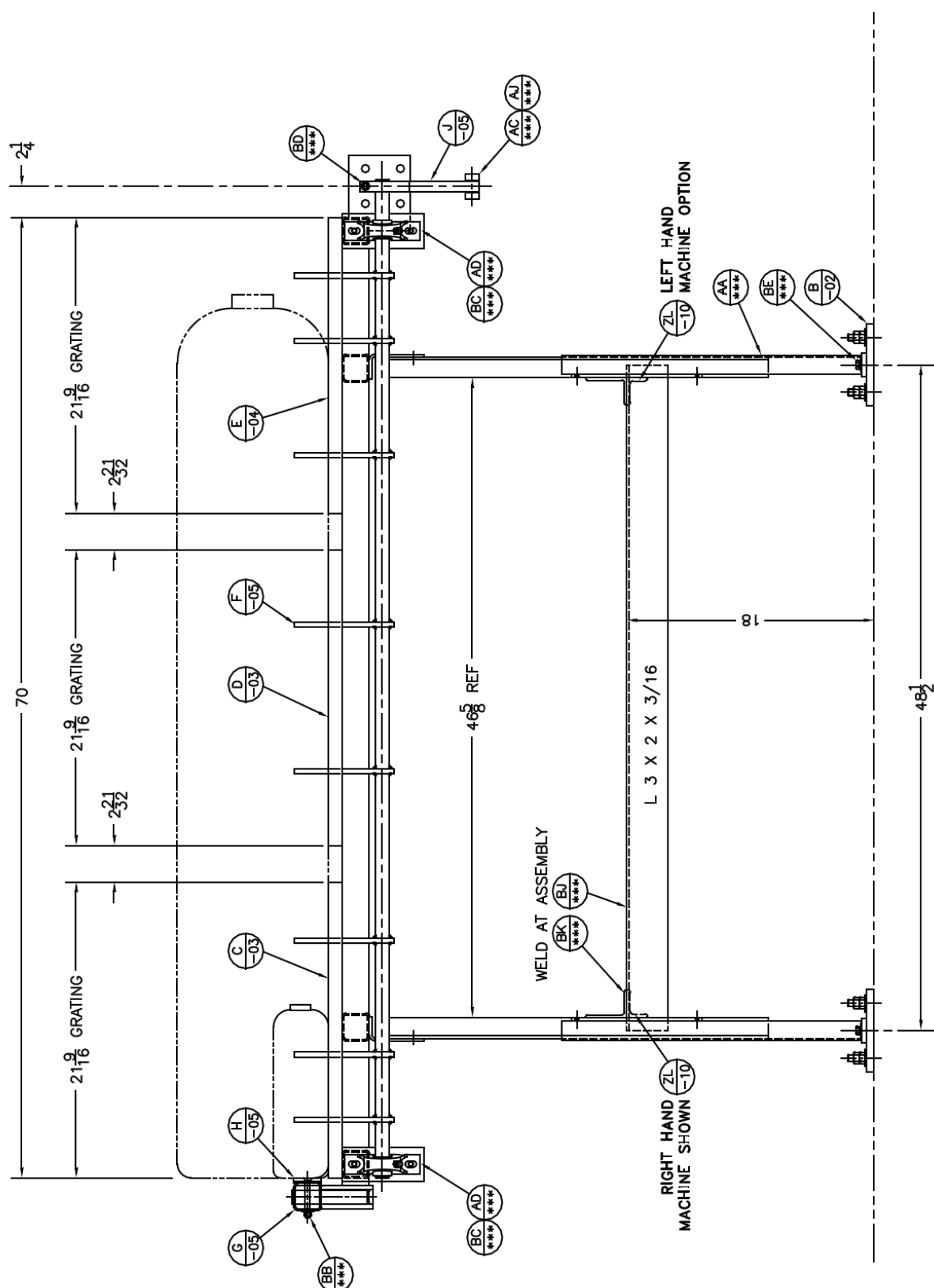


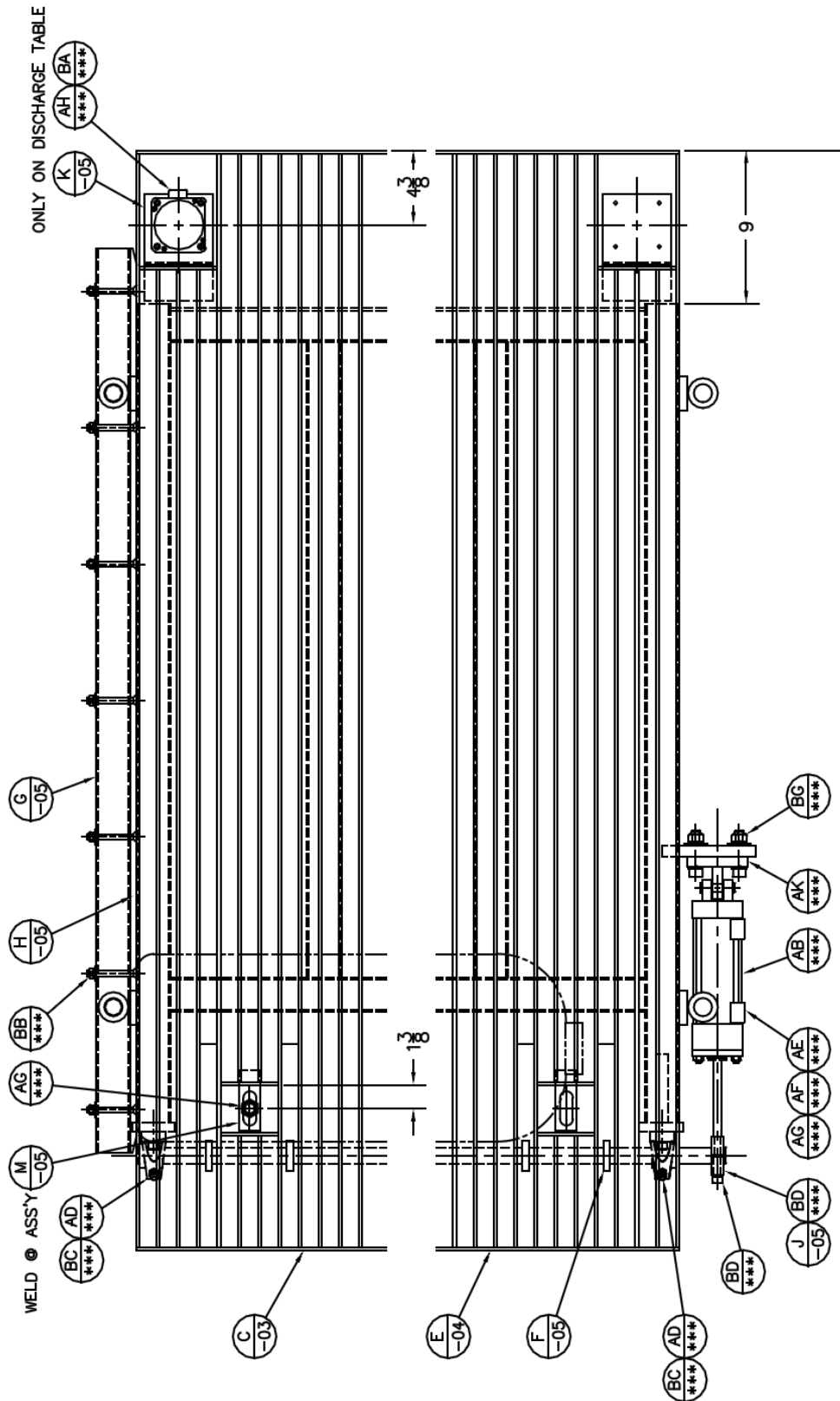


ITEM NO.	PART NO.	DESCRIPTION	QTY
A	10825-07-01	SUPPORT FRAME - WS	1
B	10825-07-01	BASE PLATE - STEEL	2
C	10825-07-01	ADJUSTABLE HEIGHT CONVEYOR LEG ASSEMBLY	2
D	10825-07-01	TYPE 19W4 WELDED STEEL GRATING, 1" X 3/16" BEARING BARS	3
E1	10825-07-01	HEX HD CAPSCREW 3/8-16 X 3/4 LG. - GR 8	8
E2	10825-07-01	FLAT WASHER 3/8	8
E3	10825-07-01	LOCKWASHER 3/8	8
F	10825-07-01	TIE FRAME - WS	1
G1	10825-07-01	SHCS 1/4-20 X 3 LG. - GR 8	2
G2	10825-07-01	HEX NUT 1/4-20	2
G3	10825-07-01	FLAT WASHER 1/4	2
G4	10825-07-01	LOCKWASHER 1/4	2
H	10825-07-02	TRAY - STN STL	1
J	10825-07-02	TRAY - STN STL	2
K1	10825-07-01	SHCS 1/4-20 X 2 1/2 LG. - GR 8	5
K2	10825-07-01	HEX NUT 1/4-20	5
K3	10825-07-01	LOCKWASHER 1/4	5
K4	10825-07-01	FLAT WASHER 1/4	5

2.20 ASSY, OUTLET TABLE, 65IN LG

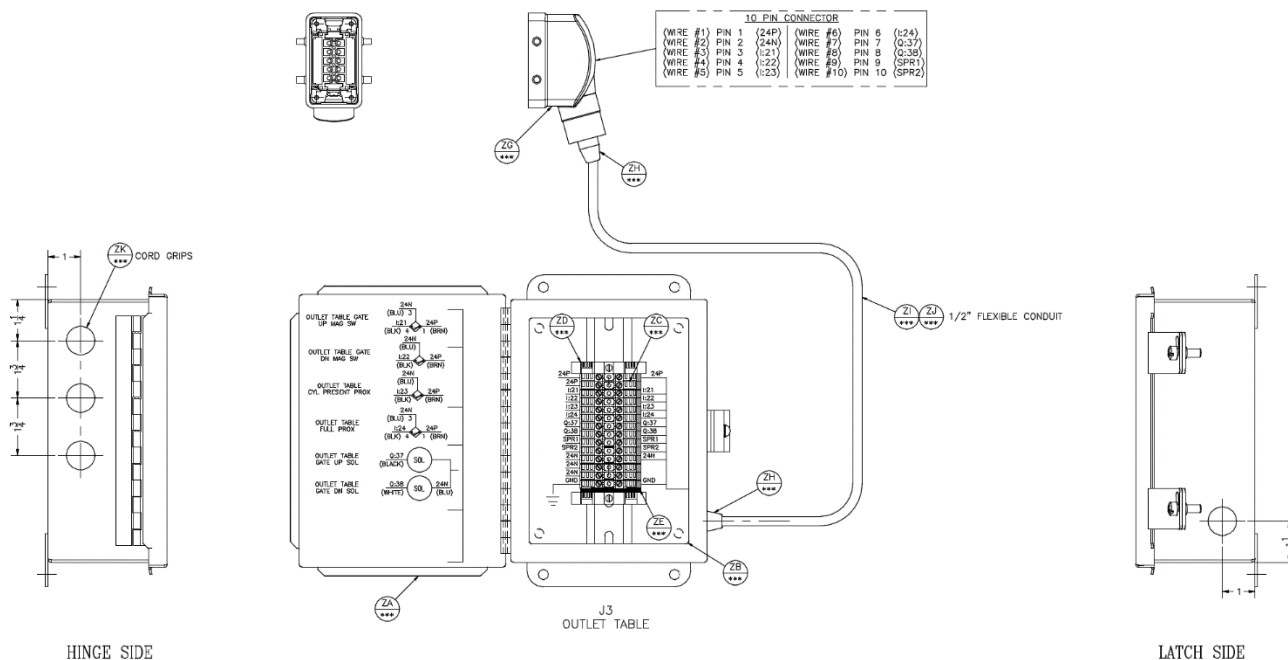






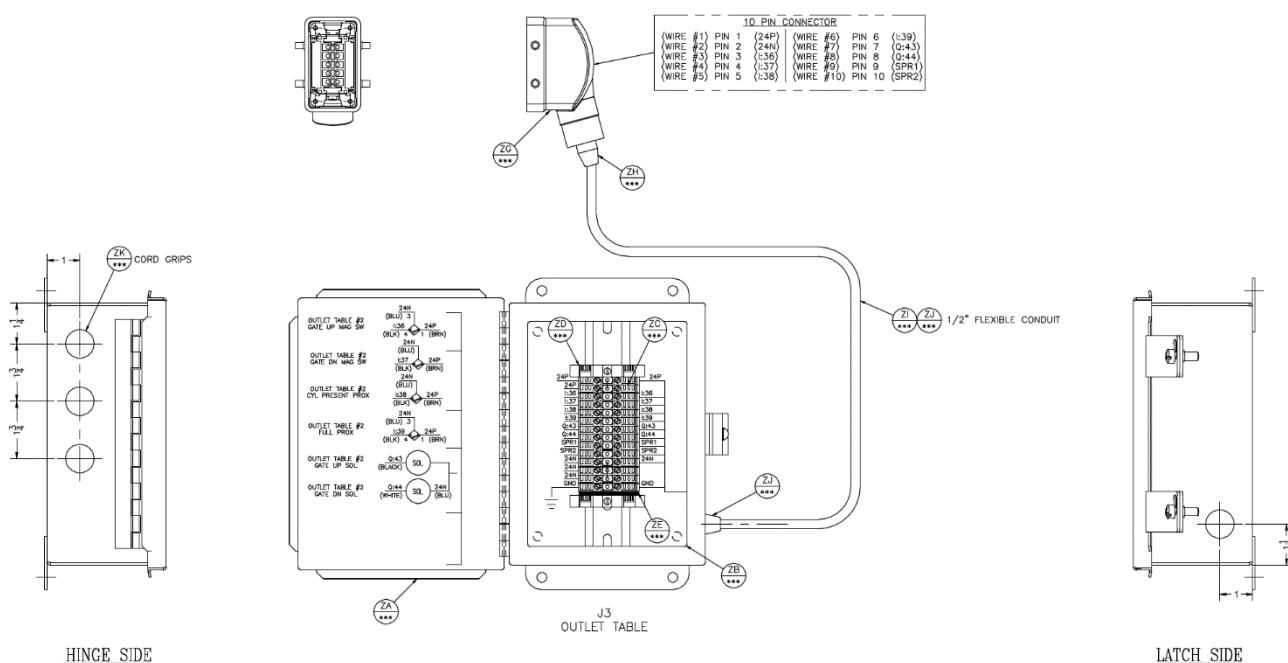
2.20.1 1104008 - ASSY, OUTLET TABLE, 65IN LG, SINGLE OPT, RH CONFIG

2.20.2 1104018 - ASSY, OUTLET TABLE, 65IN LG, SINGLE OPT, LH CONFIG



2.20.3 1104009 - ASSY, OUTLET TABLE, 65IN LG, DUAL OPT, RH CONFIG

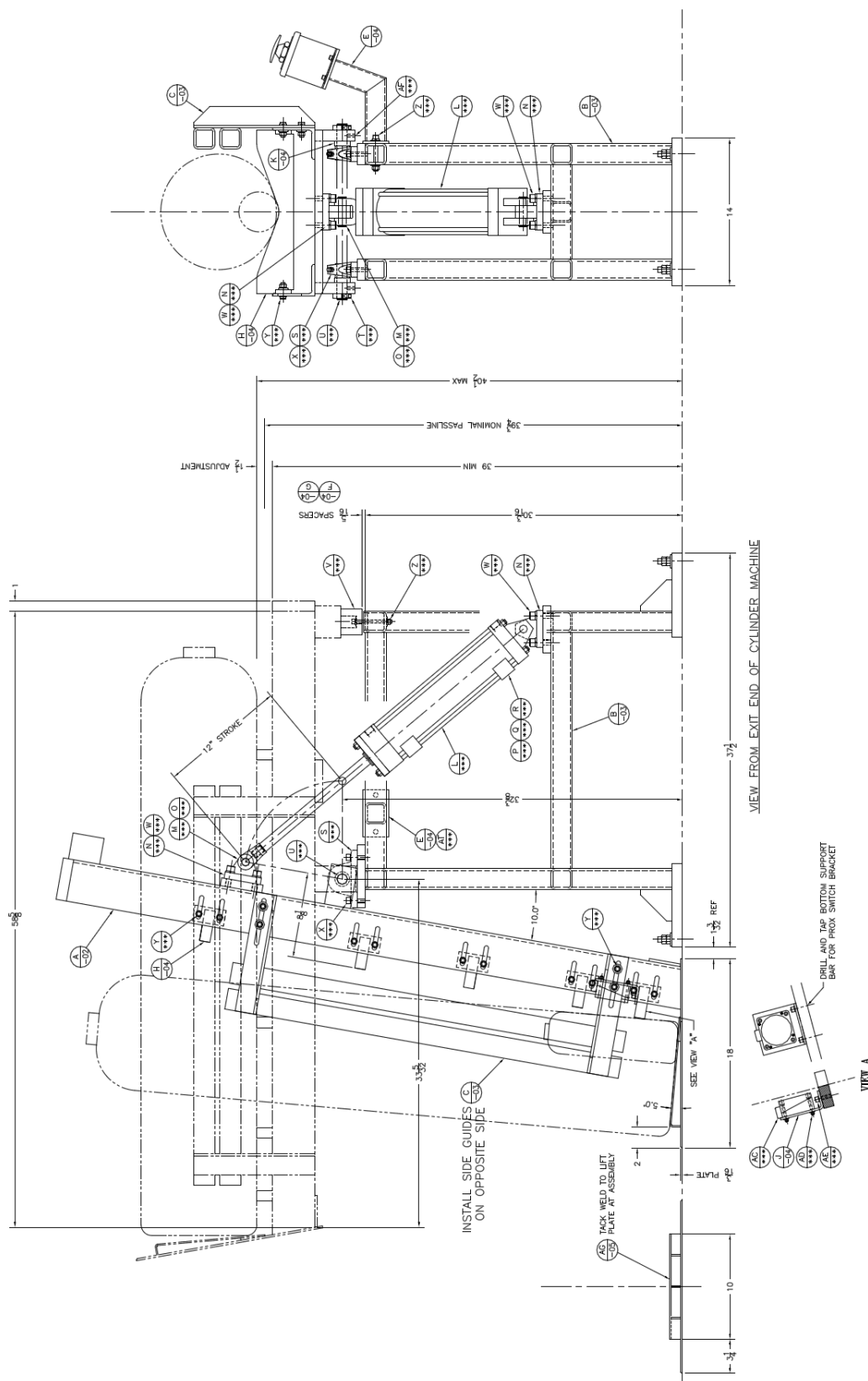
2.20.4 1104019 - ASSY, OUTLET TABLE, 65IN LG, DUAL OPT, LH CONFIG



ITEM NO.	PART NO.	DESCRIPTION	QTY
A1	10600-04-02	SUPPORT FRAME - W.S.	2
A2	10600-04-02	SUPPORT FRAME - W.S.	2
B	10600-04-02	BASE PLATE - STEEL	16
C	10600-04-03	GRATING ~ W.S.	4
D	10600-04-03	GRATING ~ W.S.	4
E	10600-04-04	GRATING ~ W.S.	4
F	10600-04-05	STOP SHAFT ~ W.S.	4
G	10600-04-05	SIDE GUIDE ~ W.S.	4
H	10600-04-05	SIDE GUIDE ~ UMHW	4
J	10600-04-05	PIVOT ARM ~ STL	4
K	10600-04-05	BRACKET ~ CRS	4
LA	10600-04-09	TRAY ~ WELDED STN. STL.	2
LB	10600-04-09	TRAY ~ WELDED STN. STL.	4
M	10600-04-05	BRACKET ~ 1/8" STL.	8
AA	10600-04-01	ADJUSTABLE HEIGHT CONVEYOR LEG ASSEMBLY	16
AB	10600-04-01	AIR CYLINDER, 2 1/2" BORE X 5" STROKE	4
AC	10600-04-01	ROD CLEVIS, 7/16-20 THREADS	4
AD	10600-04-01	1" BALL BEARING PILLOW BLOCK, STD DUTY NP SERIES	8
AE	10600-04-01	REED SWITCH, TIE ROD MOUNT, QUICK DISCONNECT, LED	8
AG	10600-04-01	18mm BARREL TYPE PROXIMITY SWITCH, THREE-WIRE	4
AH	10600-04-01	3-WIRE DC INDUCTIVE PROXIMITY SWITCH	3
AJ	10600-04-01	PIVOT PIN	4
AK	10600-04-01	EYE BRACKET	4
AL	10600-04-06	3/8 NPT MALE TO 3/8 TUBE RIGHT ANGLE FLOW CONTROL	8
AM	10600-04-06	NUMATICS 3/8 OD TUBE X 3/8 NPT STRAIGHT FITTING	8
AN	10600-04-06	NUMATICS 3/8 NPT MUFFLER	8
AP	10600-04-06	NUMATICS 1/8 NPT MUFFLER	4
AQ	10600-04-06	1/8 NPT SQ. HD. PLUG	4
AR	10600-04-06	NUMATICS 1/2 OD TUBE X 3/8 NPT STRAIGHT FITTING	4
BA1	10600-04-01	SHCS #10-24 X 1 3/4 LG - GR 8	8
BA2	10600-04-01	HEX NUT #10-24	8
BA3	10600-04-01	LOCKWASHER #10	8
BA4	10600-04-01	FLAT WASHER #10	8
BB1	10600-04-01	FHSCS 5/16-18 X 3 LG - GR 8	56
BB2	10600-04-01	HEX NUT 5/16-18	56
BB3	10600-04-01	LOCKWASHER 5/16	56
BB4	10600-04-01	FLAT WASHER 5/16	56
BC1	10600-04-01	SHCS 3/8-16 X 1 1/2 LG - GR 8	16
BC2	10600-04-01	LOCKWASHER 3/8	16
BC3	10600-04-01	FLAT WASHER 3/8	16
BD1	10600-04-01	SHCS 3/8-16 X 2 1/4 LG - GR 8	4
BD2	10600-04-01	LOCKWASHER 3/8	4
BE1	10600-04-01	HHCS, 3/8-16 X 3/4 LG - GR 8	32
BE2	10600-04-01	LOCKWASHER 3/8	32
BE3	10600-04-01	FLAT WASHER 3/8	32
BF	10600-04-01	KEY 1/4 X 1/4 X 1 1/4	4
BG1	10600-04-01	SHCS 3/8-16 X 1-3/4 LG - GR 8	16

BG2	10600-04-01	HEX NUT 3/8-16	16
BG3	10600-04-01	LOCKWASHER 3/8	32
BG4	10600-04-01	FLAT WASHER 3/8	16
BH	10600-04-06	DOUBLE SOLENOID AIR VALVE, THREE-POSITION BLOCKED	4
BJ	10600-04-01	ANGLE 3 X 2 X 3/16 X 48 1/2" LG	8
BK	10600-04-01	ANGLE 3 X 2 X 3/16 X 36" LG	8
BL1	10600-04-08	SHCS 1/4-20 X 2-1/2 LG - GR8	28
BL2	10600-04-08	HEX NUT 1/4-20	28
BL3	10600-04-08	LOCKWASHER 1/4	28
BL4	10600-04-08	FLAT WASHER 1/4	28
BM1	10600-04-01	SHCS #10-24 X 1 1/2 LG - GR 8	24
BM2	10600-04-01	HI-COLLAR LOCKWASHER #10	24
ZA	10600-04-11	AUTOMATION DIRECT HINGED ENCLOSURE, 8" X 6" X 3.5"	4
ZB	10600-04-11	ENCLOSURE PANEL	4
ZC	10600-04-11	IEC DIN RAIL TERMINAL BLOCKS	60
ZD	10600-04-11	END BARRIER	8
ZE	10600-04-11	END PLATE	4
ZF	10600-04-11	10 POSITION CIRCUIT BRIDGE	4
ZG1	10600-04-11	10 POLE MALE INSERT, SCREW TERMINALS	4
ZG2	10600-04-11	10 POLE FEMALE INSERT, SCREW TERMINALS	4
ZG3	10600-04-11	SIDE ENTRY HOOD, DOUBLE LEVER, Pg29 THREADED OPENING	4
ZG4	10600-04-11	BULKHEAD BASE, DOUBLE LEVER	4
ZG5	10600-04-11	Pg16 TO 1/2" NPT THREAD ADAPTER	4
ZH	10600-04-11	FLEXIBLE CONDUIT FITTING, 1/2" NPT STRAIGHT	8
ZI	10600-04-11	FLEXIBLE CONDUIT 1/2" DIA.	90'
ZJ	10600-04-11	FLEXIBLE PUR CONTROL CABLE, 18 AWG, 12 CONDUCTOR	90'
ZK	10600-04-11	CORD GRIP, 2 HOLE, .20-.24 WIRE DIA., 1/2" NPT	12
ZL	10600-04-10	JB MOUNTING PLATE ~ W.S.	4
ZM1	10600-04-01	SHCS 1/4-20 X 3/8 LG -GR 8	16
ZM2	10600-04-01	LOCKWASHER 1/4	16
ZN	10600-04-01	CORD GRIP, 1 HOLE, .20-.35 WIRE DIA., 1/2" NPT	6
ZP	10600-04-01	IEC TERMINAL BLOCK MARKERS	120

2.21 ASSY, DOWNENDER, STANDARD

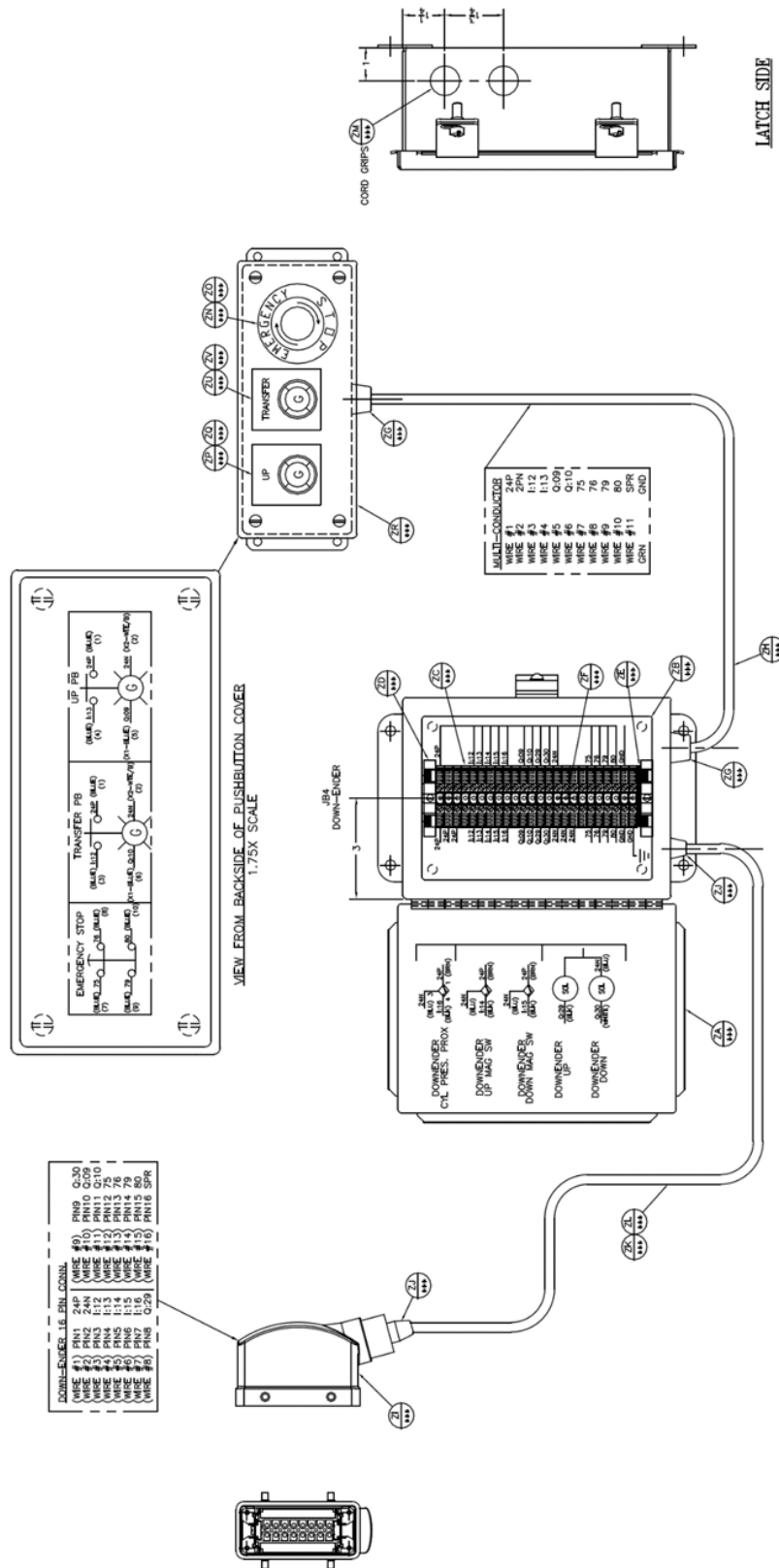


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2.21.2 1104020 - ASSY, DOWNENDER, STANDARD, LH CONFIG

2.21.3 1104710 - ASSY, DOWNENDER, STANDARD, RH CONFIG WITH OUTLET

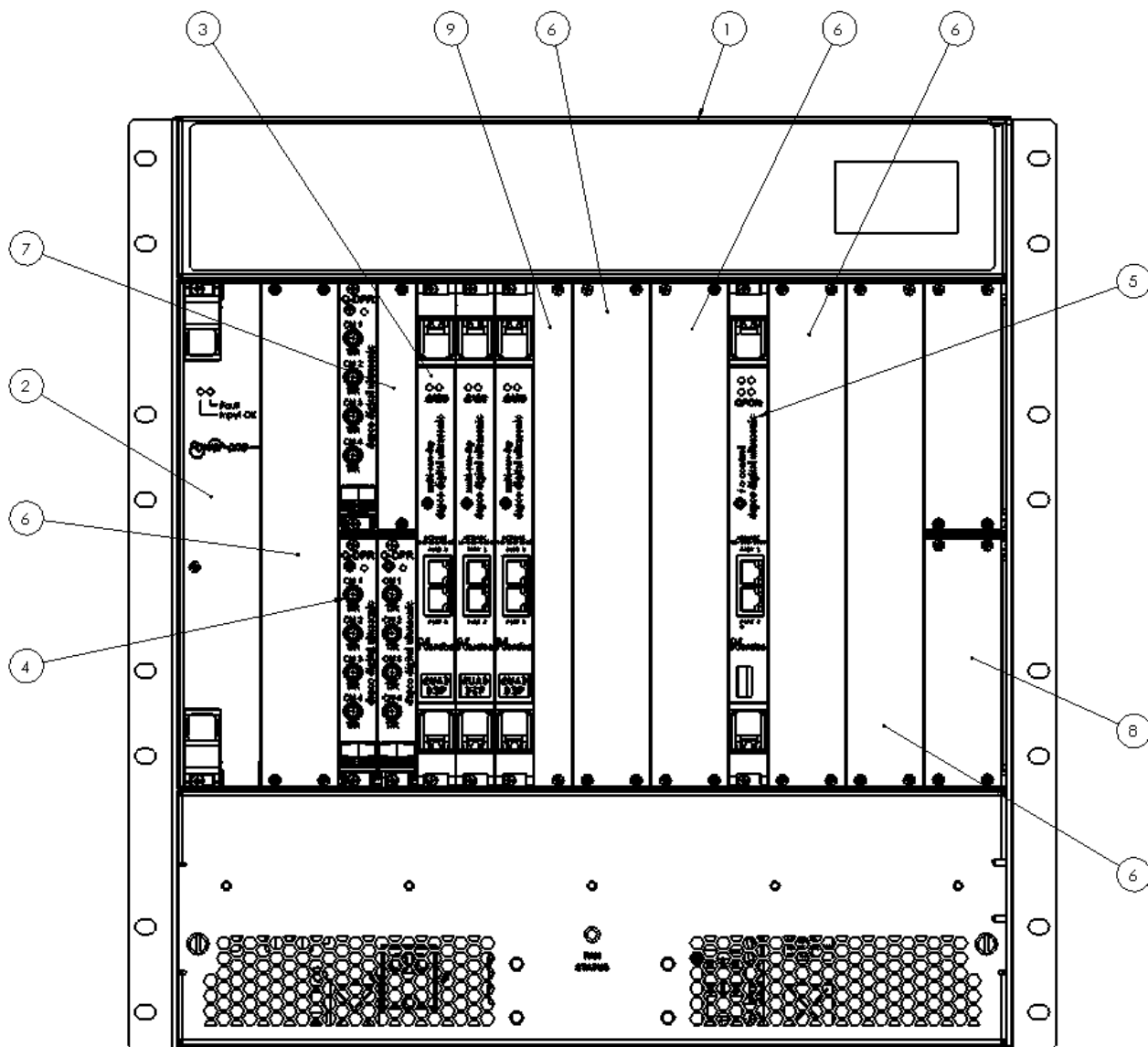
2.21.4 1104720 - ASSY, DOWNENDER, STANDARD, LH CONFIG WITH OUTLET



ITEM NO.	PART NO.	DESCRIPTION	QTY
A	10825-06-02	DOWN-ENDER TILT FRAME - WS	1
B	10825-06-03	SUPPORT FRAME - WS	1
C	10825-06-03	SIDE GUIDE - WS	1
E	10825-06-04	BOX MOUNT - WS	1
F	10825-06-04	SPACER - CRS	1
G	10825-06-04	SPACER - CRS	1
H	10825-06-04	SUPPORT BAR - WS	5
J	10825-06-04	BRACKET - CRS	1
L	10825-06-01	AIR CYLINDER, 4" BORE X 13" STROKE, 1" ROD	1
M	10825-06-01	ROD CLEVIS	1
N	10825-06-01	EYE BRACKET	2
O	10825-06-01	PIVOT PIN	2
P	10825-06-01	REED SWITCH, TIE ROD MOUNT, QUICK DISCONNECT, LED	2
S	10825-06-01	1" BALL BEARING PILLOW BLOCK, STD DUTY NP SERIES	2
T	10825-06-01	1" SHAFT COLLAR	2
U	10825-06-01	1" DIA CRS X 16 3/4" LG	1
V	10825-06-01	SOLID RUBBER BUMPER	1
W1	10825-06-01	HHCS 1/2-13 X 1 3/4 LG - GR 8	8
W2	10825-06-01	LOCKWASHER 1/2	8
X1	10825-06-01	SHCS 3/8-16 X 1 1/2 LG - GR 8	4
X2	10825-06-01	LOCKWASHER 3/8	4
Y1	10825-06-01	LOW HD SOC CAPSCREW 3/8-16 X 1 1/2 LG - GR 8	28
Y2	10825-06-01	HEX NUT 3/8-16	28
Y3	10825-06-01	LOCKWASHER 3/8	28
Y4	10825-06-01	FLAT WASHER 3/8	28
Z1	10825-06-01	SHCS 3/8-16 X 4 LG - GR 8	2
Z2	10825-06-01	HEX NUT 3/8-16	2
Z3	10825-06-01	LOCKWASHER 3/8	2
Z4	10825-06-01	FLAT WASHER 3/8	2
AA	10825-06-01	1/2 NPT MALE TO 1/2 TUBE RIGHT ANGLE FLOW CONTROL	2
AB	10825-06-01	DOUBLE SOLENOID AIR VALVE, THREE-POSITION BLOCKED	1
AC	10825-06-01	3-WIRE DC INDUCTIVE PROXIMITY SWITCH	1
AD1	10825-06-01	SHCS #10-24 X 3/4 LG - GR 8	4
AD2	10825-06-01	HEX NUT #10-24	4
AD3	10825-06-01	LOCKWASHER #10	4
AD4	10825-06-01	FLAT WASHER #10	4
AE1	10825-06-01	SHCS 5/16-18 X 1 - GR 8	2
AE2	10825-06-01	LOCKWASHER 5/16	2
AF	10825-06-01	CUP POINT SETSCREW 5/16-18 X 3/4 LG	2
AG	10825-06-05	RAMP PLATE - WS	1
AM	10825-06-01	1/2 OD TUBE X 3/8 NPT STRAIGHT FITTING	3
AN	10825-06-01	3/8 NPT MUFFLER	2
AP	10825-06-01	1/8 NPT MUFFLER	1
AQ	10825-06-01	1/8 NPT SQ. HD. PLUG	1
AR1	10825-06-01	SHCS #10-24 X 1 1/2 LG - GR 8	6
AR2	10825-06-01	HI-COLLAR LOCKWASHER #10	6
AS1	10825-06-01	SHCS 3/8-16 X 3-3/4 LG - GR 8	2

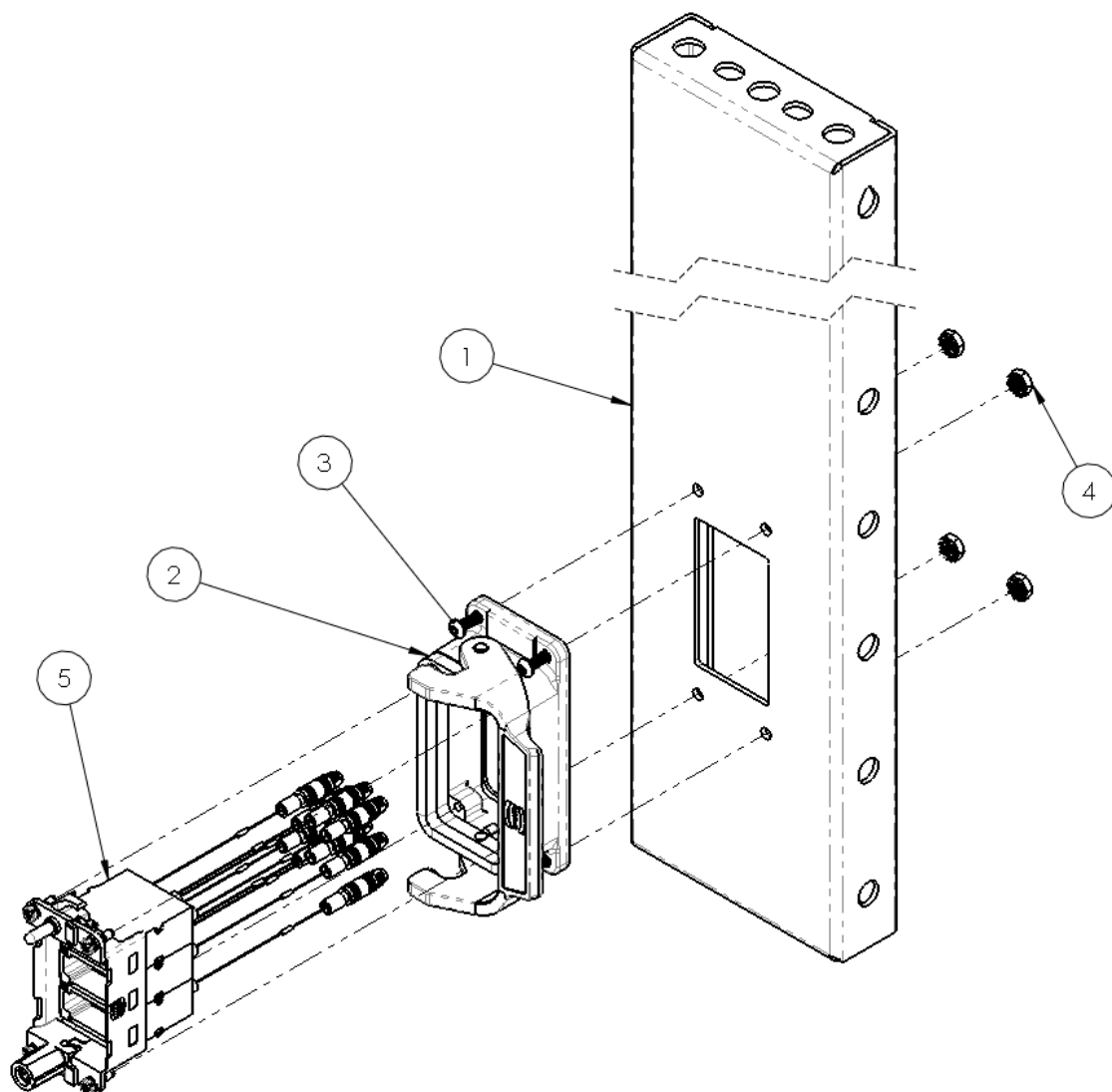
AS2	10825-06-01	HEX NUT 3/8-16	2
AS3	10825-06-01	LOCKWASHER 3/8	2
AS4	10825-06-01	FLAT WASHER 3/8	2
AT1	10825-06-01	SHCS 3/8-16 X 4 LG - GR 8	2
AT2	10825-06-01	HEX NUT 3/8-16	2
AT3	10825-06-01	LOCKWASHER 3/8	2
AT4	10825-06-01	FLAT WASHER 3/8	2
ZA	10825-06-01	HINGED ENCLOSURE, 8" X 6" X 3.5"	1
ZB	10825-06-01	ENCLOSURE PANEL	1
ZC	10825-06-01	IEC DIN RAIL TERMINAL BLOCKS	16
ZD	10825-06-01	END BARRIER	2
ZE	10825-06-01	END PLATE	1
ZF	10825-06-01	10 POSITION CIRCUIT BRIDGE	1
ZG	10825-06-01	FLEXIBLE CONDUIT FITTING, 1/2" NPT 90 DEGREE	2
ZH	10825-06-01	FLEXIBLE CONDUIT 1/2" DIA	5'
ZI1	10825-06-01	16 POLE MALE INSERT, SCREW TERMINALS	1
ZI2	10825-06-01	16 POLE FEMALE INSERT, SCREW TERMINALS	1
ZI3	10825-06-01	SIDE ENTRY HOOD, DOUBLE LEVER, Pg21 THREADED OPENING	1
ZI4	10825-06-01	BULKHEAD BASE, DOUBLE LEVER	1
ZI5	10825-06-01	Pg21 TO 3/4" NPT THREAD ADAPTER	1
ZJ	10825-06-01	FLEXIBLE CONDUIT FITTING, 3/4" NPT STRAIGHT	2
ZJ1	10825-06-01	FLEXIBLE CONDUIT FITTING, 3/4" NPT 90 DEGREE	1
ZK	10825-06-01	FLEXIBLE CONDUIT 3/4" DIA	20'
ZL	10825-06-01	FLEXIBLE PUR CONTROL CABLE, 18 AWG, 18 CONDUCTOR	20'
ZM	10825-06-01	CORD GRIP, 2 HOLE, .20-.24 WIRE DIA., 1/2" NPT	2
ZN	10825-06-01	TWO-POSITION PUSH-PULL BUTTON, RED	1
ZO	10825-06-01	ROUND YELLOW ESTOP LEGEND PLATE	1
ZP	10825-06-01	24V GREEN ILLUMINATED PUSHBUTTON	1
ZQ	10825-06-01	"UP" LEGEND PLATE, BLACK BACKGROUND	1
ZR	10825-06-01	PUSH BUTTON STEEL ENCLOSURE, 3 HOLES	1
ZT1	10825-06-01	SHCS 1/4-20 X 3/8 LG -GR 8	4
ZT2	10825-06-01	LOCKWASHER 1/4	4
ZU	10825-06-01	24V GREEN ILLUMINATED PUSHBUTTON	1
ZV	10825-06-01	"TRANSFER" LEGEND PLATE, BLACK BACKGROUND	1
ZW	10825-06-01	CORD GRIP, 1 HOLE, .20-.35 WIRE DIA., 1/2" NPT	2
ZX	10825-06-01	IEC TERMINAL BLOCK MARKERS	32

2.22 1104210 - ASSY, DSP32 SYSTEM, 12 CHNL



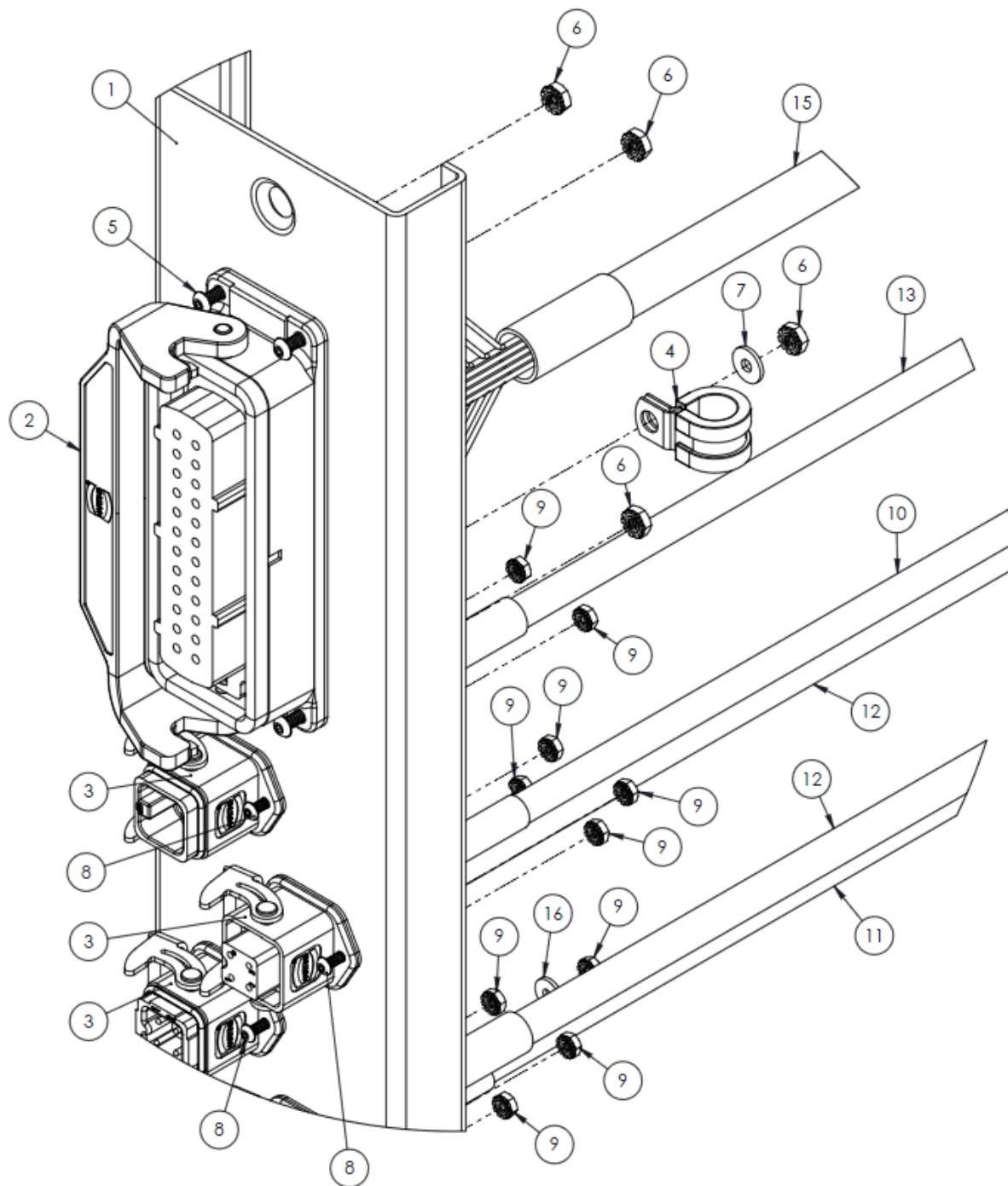
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1101340	CHASSIS, DSP, 32 CHNL, 11U, SPLIT-BUS BACKPANEL	1
2	1000347	POWER SUPPLY, 6U, COMPACT PCI, 90-264VAC INPUT	1
3	1103489	BOARD, DSP W PWR SUPPLY, QUAD 40MHZ	3
4	1103491	BOARD, PULSER, QUAD, PULSE ECHO	3
5	1103493	BOARD, I/O W PWR SUPPLY	1
6	1104134	SLOT COVER, 6U BLANK, DOUBLE, 8HP, SHIELDED	5
7	1104135	SLOT COVER, 3U BLANK, SINGLE, 4HP, SHIELDED	1
8	1104136	SLOT COVER, 3U BLANK, DOUBLE, 8HP, SHIELDED	2
9	1104133	SLOT COVER, 6U BLANK, SINGLE, 4HP, SHIELDED	1

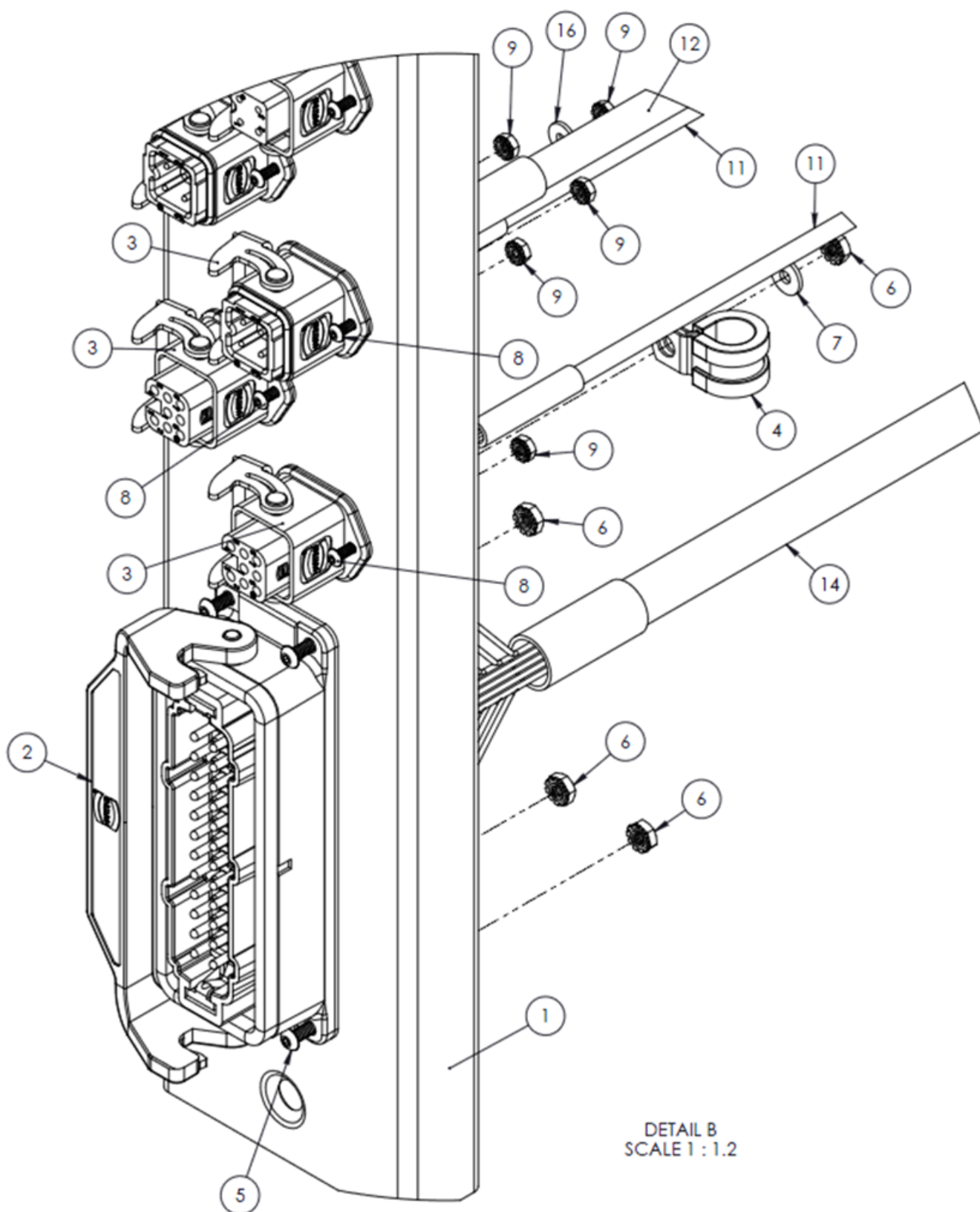
2.23 1104165 - ASSY, SIDE PLINTH UT CONNECTOR AND CABLE

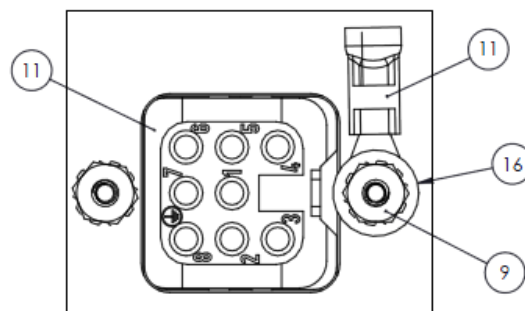
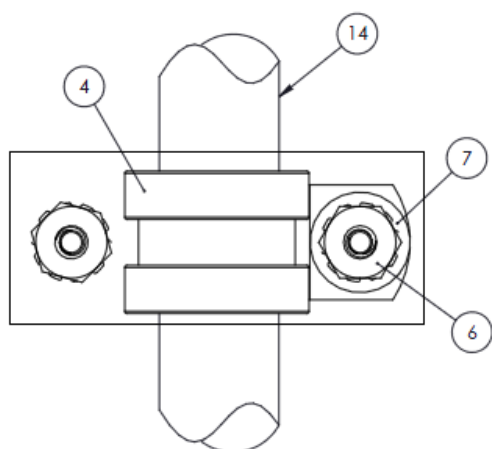


ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1103026	BASE, SIDE PLINTH CUT OUT FOR CONNECTOR	1
2	1104168	BULKHEAD MOUNTING, HAN B SIZE	1
3	BHCS_SS-6-32x0.500	SCREW, BUTTON HEAD CAP, 6-32 X .5 LG, SS	4
4	HNTL_SS-6-32	HEX NUT, TOOTH LOCKING, 6-32, SS	4
5	1104510	ASSY, CBL, WHEEL, DSP, LC, PLINTH CONN, 7FT, LEMO	1

2.24 1104280 - ASSY, PLINTH, CYL IND, REAR PNL, FULL ASSM

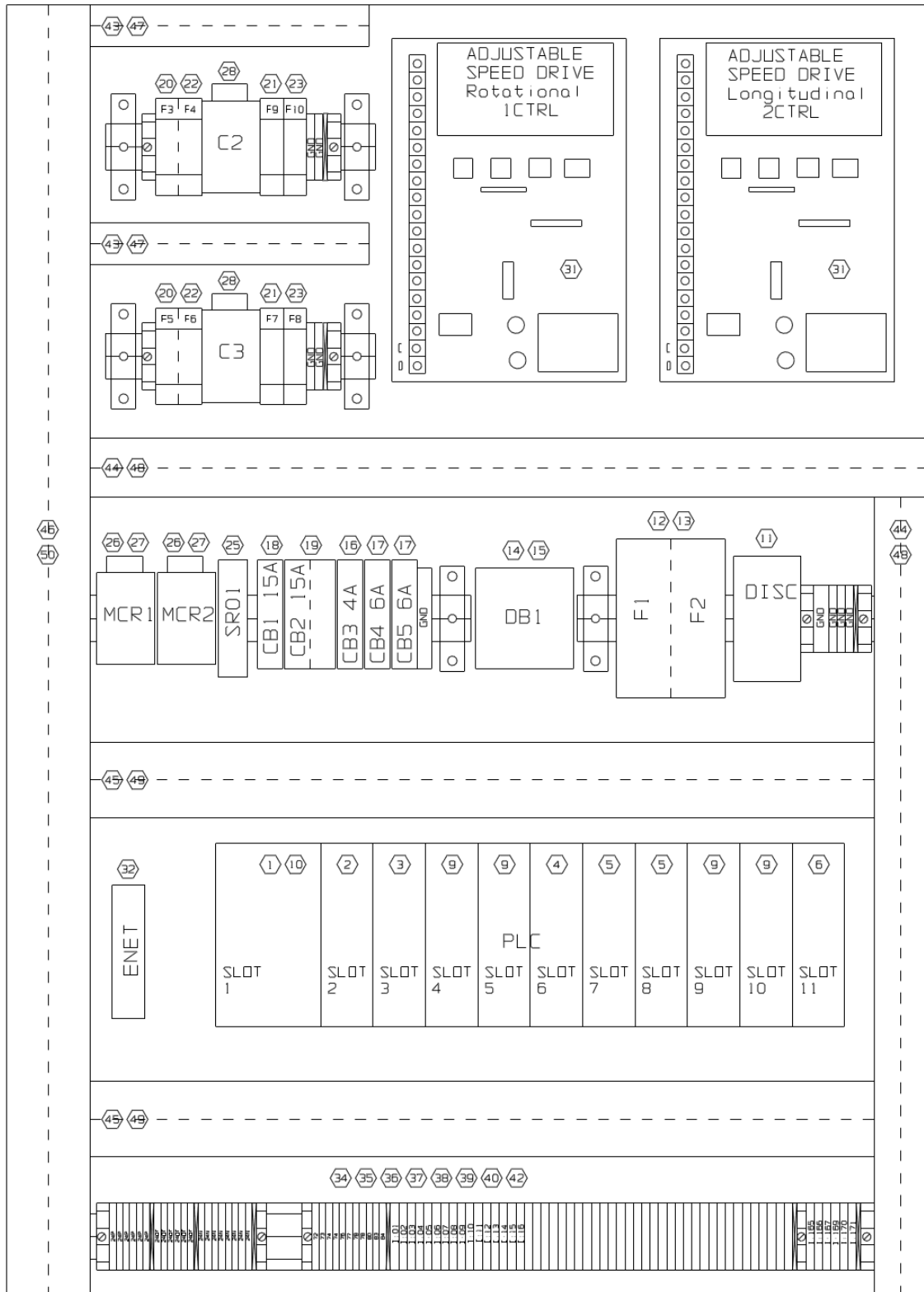


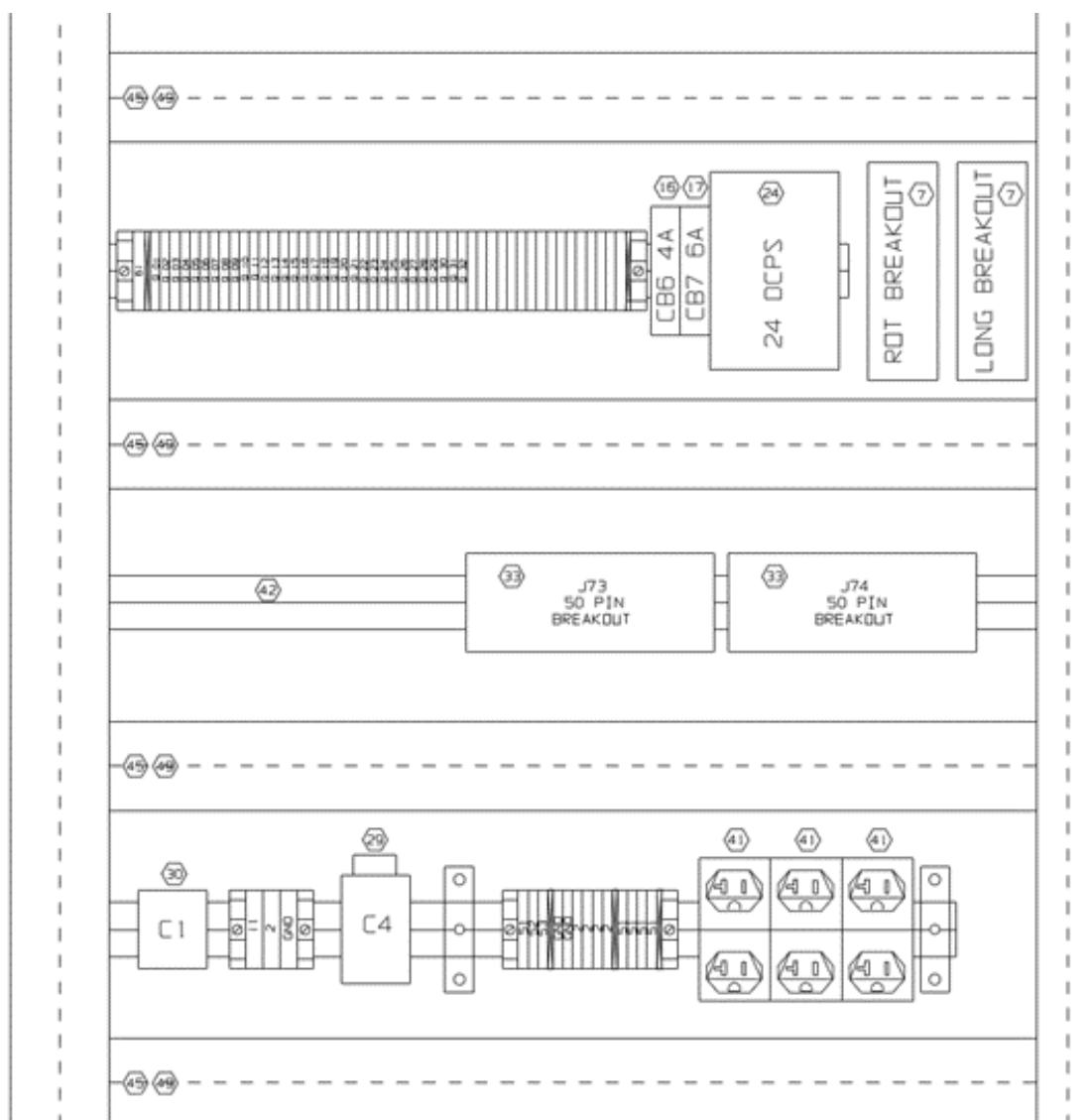




ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1102951	BASE, REAR PLINTH CUT OUT FOR CONNECTORS	1
2	1000487	BULKHEAD MOUNTING, HAN 24 B SIZE	2
3	8001528	BULKHEAD MOUNTING, HAN 3 A SIZE, ONE LEVER LOCKING	6
4	1104278	LOOP CLAMP, .5IN ID, .5IN WIDE, VIBRATION-DAMPING	2
5	BHCS_SS-6-32x0.625	"SCREW, BUTTON HEAD CAP, 6-32 X .0.625 LG, SS	8
6	HNTL_SS-6-32	HEX NUT, TOOTH LOCKING, 6-32, SS	8
7	1104277	WASHER, FENDER, NUM 6, .156 ID, .438 OD, SS	2
8	BHCS_SS-4-40x0.500	SCREW, BUTTON HEAD CAP, 4-40 X .5 LG, SS	12
9	HNTL_SS-4-40	HEX NUT, TOOTH LOCKING, 4-40, SS	12
10	1104224	ASSY, CBL, WTR, 16-3, 6FT, PLINTH, AC CABLE	1
11	1104220	ASSY, CBL, PLINTH, ENC, 24GAUGE, 8FT, DSP	2
12	1104281	ASSY, CBL, PLINTH, CYL IND, MTR, 9 FT	2
13	1104285	ASSY, CBL, PLINTH, E-STOP & IO, 18GAUGE, 8FT, PLC	1
14	1104334	ASSY, CBL, INPUTS, 18-25, 9FT, PLINTH, MALE	1
15	1104335	ASSY, CBL, OUTPUTS, 18-25, 9FT, PLINTH, FEMALE	1
16	1104276	WASHER, FENDER, NUM 4, .125 ID, .375 OD, 316 SS	2

2.25 1104451 – ASSY BACK PANEL CYL IND - GE RX3i GEN 2 CONFIG 1

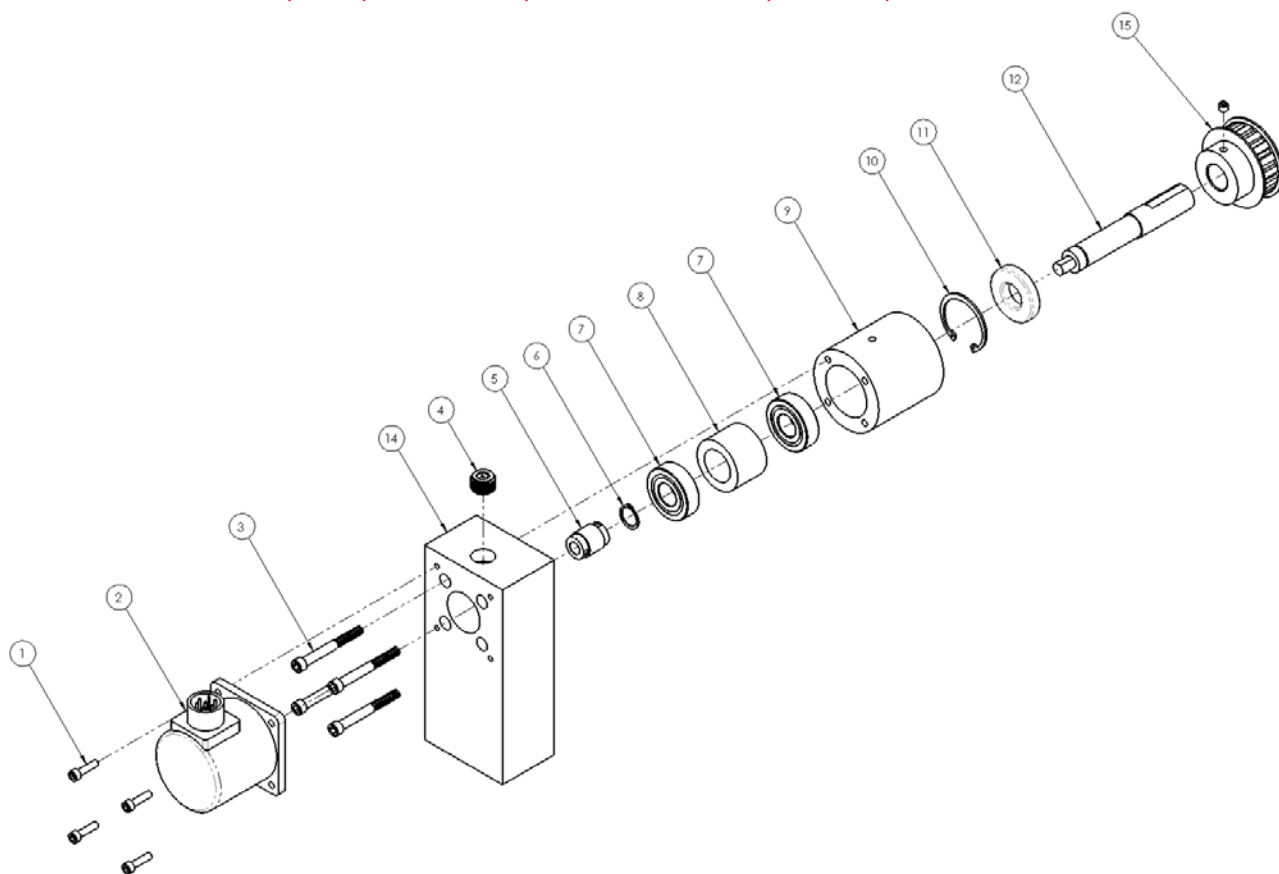




ITEM NO.	PART NO.	DESCRIPTION	QTY
1	7000273	POWER SUPPLY, RX3I, 120/240VAC OR 125VDC, 40 WATTS	1
2	7000272	CPU, RX3I, 305	1
3	7000277	INPUT, 24VDC, 16 PT, POS/NEG LOGIC, RX3I PLC	1
4	7000278	OUTPUT, 12/24 VDC, .5 AMPS, 16 PT, POS LOGIC, RX3I	1
5	1102786	RX3I 8PT 24VDC OUTPUT	2
6	7000276	MODULE, RX3I, 1-2 AXIS DIGITAL OR 1-4 ANALOG SERVO	1
7	8000405	BOARD, DSM ANALOG SERVO INTERFACE TERM, PLC	2
8	8000406	CBL, DSM ANALOG TB INTERFACE, PLC, 3FT	2
9	7000658	PLC, BLANK, RX3I	4
10	7000274	BASE, 12 SLOT, RX3I, PLC	1
11	1102896	DISCONNECT, 3-POLE, TOGGLE SWITCH, A FRAME 60A	1
12	1102897	FUSE BLOCK, 2-POLE, 600VAC, 60A, CLASS J	1
13	1102898	FUSE, 600VAC, 50A, CLASS J, LPJ-SP, AJT, JTD	2

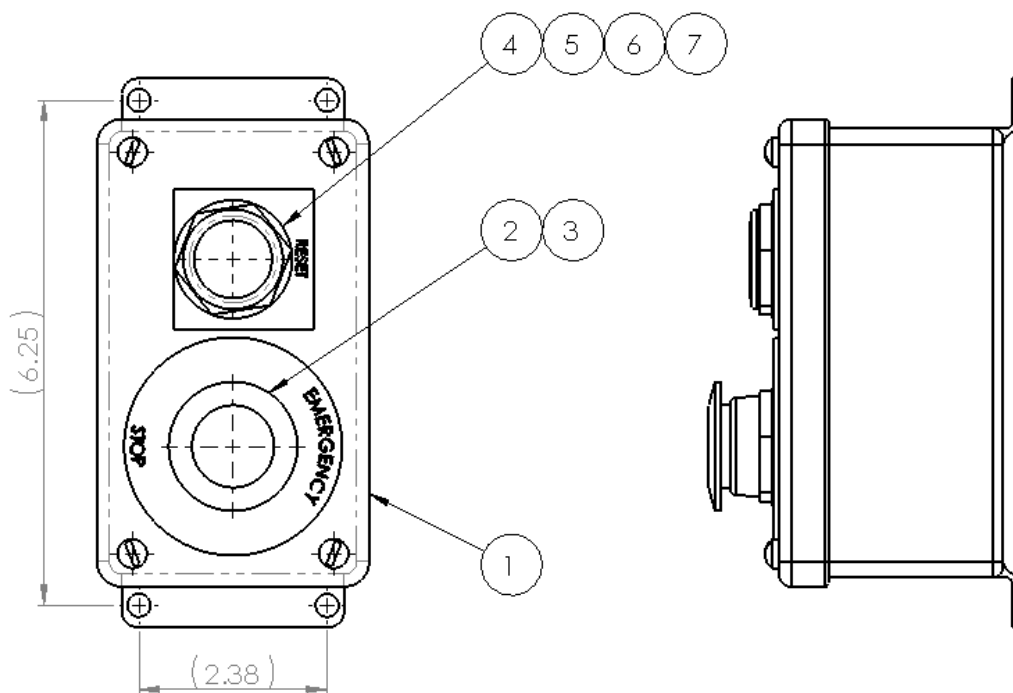
14	1104348	DISTRIBUTION BLOCK, ELECTRICAL, POWER	1
15	1104349	DISTRIBUTION BLOCK COVER, ELECTRICAL, POWER	3
16	1102899	CIRCUIT BREAKER, 4A, SINGLE POLE, D-CURVE	2
17	1102900	CIRCUIT BREAKER, 6A, SINGLE POLE, D-CURVE	3
18	1102903	CIRCUIT BREAKER, 15A, SINGLE POLE, D-CURVE	1
19	1102902	CIRCUIT BREAKER, 15A, 2-POLE, D-CURVE	1
20	8001220	HOLDER, FUSE, 2 POLE, CLASS CC, 600 VAC/DC 30A	2
21	3002012	HOLDER, FUSE, 1 POLE, CLASS CC	4
22	1104347	FUSE, CARTRIDGE, FWC, 20 AMP, FAST	4
23	3002057	FUSE, LPCC, 10 AMP	4
24	8001437	POWER SUPPLY, OUTPUT 24V ADJUSTABLE AT 10A	1
25	1102904	SAFETY RELAY, 2-CHANNEL E-STOP/GATE, 24VAC/DC	1
26	1102905	CONTACTOR, 24VDC, 3 POLE, 30A, NON-REVERSING	2
27	1102907	CONTACT BLOCK, AUX, 1 N.O. AND 1 N.C. CONTACT	2
28	1102908	CONTACTOR, 24VDC, 3 POLE, NON-REV, 16A, 1NO	2
29	1102976	CONTACTOR, 110-125VAC, 3 POLE, NON-REV, 16A, 1NO	1
30	3002041	CONTACTOR, 3 POLE, 9A, 24VDC COIL, 1 N.C. CONTACT	1
31	8001063	DRIVE, 1HP, 230VAC 50/60HZ IN, 0-150VDC OUT	2
32	1102909	ETHERNET SWITCH, 5 PORT, UNMANAGED, 10-30 VDC	1
33	1000945	CONN INTERFACE, 50 PIN, FIXED D-SUB MALE	2
34	3002010	TERM, STANDARD 6MM, GRAY, M4/6	120
35	3002013	JUMPER BAR, SCREWS, POST, 6MM TERM, 20 POLE	2
36	3002014	JUMPER SCREWS AND POSTS, 6MM TERM, EV6	40
37	8001100	TERM, GROUNDING, 6MM, GREEN/YELLOW, M4/6.P	12
38	8001114	TERM, END STOPS, 10MM, BAM 2	18
39	1000870	BRKT, RAIL OFFSET, DIN RAIL, 20MM, M6 THREAD	20
40	1000871	SCREW, HCS, M6-1.0 THREAD, 20MM LENGTH	20
41	8001154	DIN RAIL, 35MM	3
42	1101579	RECEPTACLE, DIN MOUNT, 120VAC, 15AMP	123.25
43	1104370	WIREWAY, PANEL DUCT, 1.0X3, GRAY	17
44	1104371	WIREWAY, PANEL DUCT, 1.5X3, GRAY	75.5
45	1104372	WIREWAY, PANEL DUCT, 2.0X3, GRAY	140.25
46	1104373	WIREWAY, PANEL DUCT, 2.5X3, GRAY	66.75
47	1104374	WIREWAY, COVER, PANEL DUCT, 1.0X3, GRAY	17
48	1104375	WIREWAY, COVER, PANEL DUCT, 1.5X3, GRAY	75.5
49	1104376	WIREWAY, COVER, PANEL DUCT, 2.0X3, GRAY	140.25
50	1104377	WIREWAY, COVER, PANEL DUCT, 2.5X3, GRAY	66.75

2.26 1102779 - ASSY, ENC, 18 TOOTH, WITH ENCODER, WITH Z, LC



ITEM NO.	PART NO.	DESCRIPTION	QTY
1	SHCS_SS-10-24x0.750	#10-24 X 0.75 LG SOCKET HEAD CAP SCREW, SS	4
2	1102384	ENCODER, 2048 PPR QUAD, WITH Z CHANNEL, 5-18VDC	1
3	SHCS_SS-0.25-20x2.250	1/4-20 X 2.25 LG SOCKET HEAD CAP SCREW, SS	4
4	8001324	PRESSURE PLUG, 3/8-18 N.P.T.	1
5	1001087	ASSEMBLY, FRONT ENCODER COUPLER COMPLETE = 2 HUB & 1 SLEEVE	1
6	1102605	RETAINING RING, EXTERNAL, 5/8" BORE, SS	1
7	8001532	BALL BEARING, DOUBLE SHIELDED	2
8	1006017	INSERT, ENCODER ASSY, TRUCK FRONT	1
9	1006018	BLOCK, BEARING	1
10	RING_SS-1.658x0.068	RETAINING RING, INTERNAL, 1-9/16" BORE, SS	1
11	8001643	SEAL, OIL, 3/4" SHAFT, 1-5/8" BORE, 5/16" WIDTH, 7PSI	1
12	1006019	SHAFT, ENCODER, TRUCK FRONT	1
13	1001085	COUPLING, HUB, .375 I.D.	2
14	1006016	MAIN BODY, ENCODER ASSY, TRUCK FRONT, 6.5IN LG	1
15	8001144	PULLEY, TIMING	1

2.27 1104357 - ASSY, E-STOP J-BOX, 24VDC, GEN 2



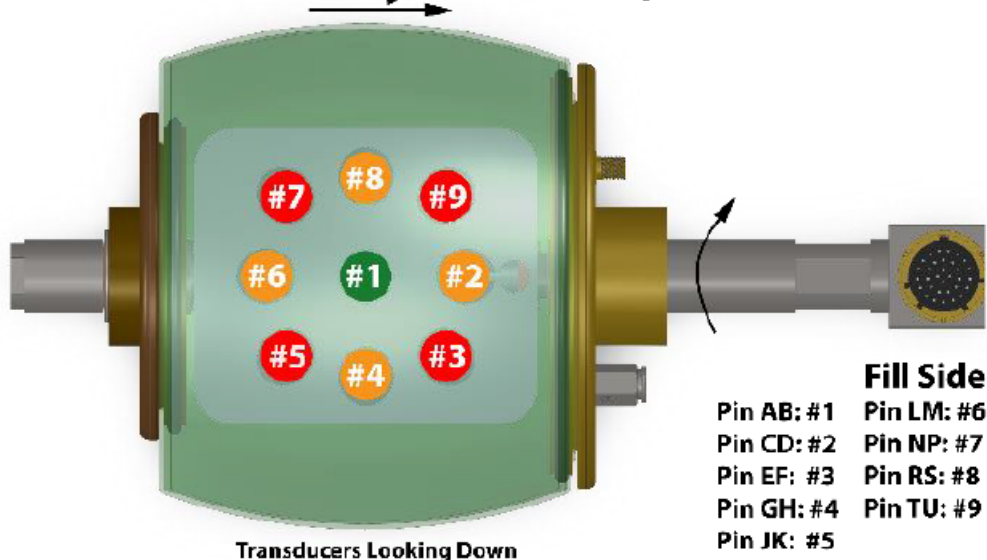
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1104358	MOD, E-STOP BOX INDUSTRIAL	1
2	8001103	BUTTON, E-STOP, 22MM SERIES, 40MM BUTTON	1
3	8001104	LABEL, 22MM SERIES, 2.76IN (70MM) OD	3
4	8001102	PUSH BUTTON, 22MM SERIES, FLUSH GREEN LENS	3
5	8001109	CONTACT BLOCK, 1 NO (NORMALLY OPEN), 22MM SERIES	1
6	1104359	LIGHT UNIT, 24VDC, STANDARD BULB	5
7	1104328	PLATE, LEGEND, POWER ON	1
8	1104557	CORD GRIP, .25-.38IN CORD, .5 KNOCKOUT, STL	2
9	1103912	LOCKNUT AND ORING FOR CORD GRIP, .5 KNOCKOUT	1

2.28 1102465 - ASSY, RSU 7IN, CYL INDUSTRIAL, 9CH, DSP

The Industrial 9 channel wheel is equipped with the following transducers:

#1	Thickness	5 MHz-S
#8,#4	Longitudinal	3.5 MHz
#2,#6	Transversal	3.5 MHz
#5,#7,#9,#3	Oblique	2.25 MHz

7 inch Cylinder RSU, DSP



ITEM NO.	PART NO.	DESCRIPTION	QTY
1	4003025	MEMBRANE, BT WHEEL, TH-309	1
2	1000961	FLUID, WHEEL, CLEAR, 1 GL	1
3	8001570	O-RING, # 338 BUNA N, SMALL	1
4	8001571	O-RING, # 346 BUNA N, LARGE	1
5	1103640	SCREW, 100 PACK, CSCS 6-32 X 0.5IN, BRASS	1
6	1104572	SCREW, 100 PACK, CSCS 6-32 X 0.56IN BRASS	1

2.29 CSPEC-0010 - SYSTEM CTRL COMPUTER, 1U, 16-500, RAID, WIN7 EMB



2.30 1104362 - ASSY, ETHERNET SWITCH WITH POWER 110VAC SWITCH



2.31 1104431 - ASSY E-CAB CYLSONIC IND DSP RX3I GEN 2 CONFIG 1 LOAD CONVEYOR, DOWNENDER

2.32 1104432 - ASSY E-CAB CYLSONIC IND DSP RX3I GEN 2 CONFIG 2 UPENDER, INLET, OUTLET, DOWNENDER

2.33 1104433 - ASSY E-CAB CYLSONIC IND DSP RX3I GEN 2 CONFIG 3 UPENDER, DOWNENDER

2.34 1104434 - ASSY E-CAB CYLSONIC IND DSP RX3I GEN 2 CONFIG 4 UPENDER, INLET OPTION, INLET, OUTLET, OUTLET OPTION, DOWNENDER

2.35 System Cables

PART NO.	DESCRIPTION
8001196	AIR CONDITIONER CIRCUIT BREAKER ON DIN 3
1000947	COMPUTER WAN PORT 2 DSP ETHERNET SWITCH PORT 16
7000271	COMPUTER WAN PORT 3 ETHERNET SWITCH ON BACK PANEL PORT 1
1102865	PLC CPU ETHERNET SWITCH ON BACK PANEL PORT 2
1104334	REAR PLINTH TERMINALS ON DIN 4
1104220	REAR PLINTH J74 BREAKOUT
1104220	REAR PLINTH J73 BREAKOUT
1104281	REAR PLINTH FUSES AND GND ON DIN 1
1104281	REAR PLINTH FUSES AND GND ON DIN 2
1104224	REAR PLINTH TERMINALS ON DIN 7
1104285	REAR PLINTH TERMINALS ON DIN 4
1104335	REAR PLINTH TERMINALS ON DIN 5
1000946	J73 BREAKOUT DSP J73 CONNECTOR
1000946	J74 BREAKOUT DSP J74 CONNECTOR
1103890	LONGITUDINAL ENCODER REAR PLINTH REC2
1103890	ROTATIONAL ENCODER REAR PLINTH REC3
1104254	LONGITUDINAL MOTOR REAR PLINTH REC4
1104254	ROTATIONAL MOTOR REAR PLINTH REC5
1104365	WATER OUTLET REAR PLINTH REC6
1103751	E-STOP BOX BACK PANEL
1102774	MAIN SYSTEM JUNCTION BOX LTV 1
1102774	MAIN SYSTEM JUNCTION BOX LTV 2
1102876	RSU SIDE PLINTH
1104510	SIDE PLINTH DSP

3 Reference Documents

3.1 Mechanical Drawings

- 1100615 - ASSY, INDUSTRIAL UE, VERTICAL LIFT, RH
- 1100616 - ASSY, INDUSTRIAL UE, VERTICAL LIFT, LH
- 1104001 - ASSY, MAIN TEST BED, RH CONFIG
- 1104002 - ASSY, UPENDER, STANDARD, RH CONFIG
- 1104003 - ASSY, UPENDER, PASS THROUGH, RH CONFIG
- 1104004 - ASSY, LOAD CONVEYOR, RH CONFIG
- 1104005 - ASSY, INLET TABLE, 65IN LG, SINGLE OPT, RH CONFIG
- 1104006 - ASSY, INLET TABLE, 65IN LG, DUAL OPT, RH CONFIG
- 1104007 - ASSY, OUTLET TABLE, 18IN LG, SINGLE OPT, RH CONFIG
- 1104008 - ASSY, OUTLET TABLE, 65IN LG, SINGLE OPT, RH CONFIG
- 1104009 - ASSY, OUTLET TABLE, 65IN LG, DUAL OPT, RH CONFIG
- 1104010 - ASSY, DOWNENDER, STANDARD, RH CONFIG
- 1104011 - ASSY, MAIN TEST BED, LH CONFIG
- 1104012 - ASSY, UPENDER, STANDARD, LH CONFIG
- 1104013 - ASSY, UPENDER, PASS THROUGH, LH CONFIG
- 1104014 - ASSY, LOAD CONVEYOR, LH CONFIG
- 1104015 - ASSY, INLET TABLE, 65IN LG, SINGLE OPT, LH CONFIG
- 1104016 - ASSY, INLET TABLE, 65IN LG, DUAL OPT, LH CONFIG
- 1104017 - ASSY, OUTLET TABLE, 18IN LG, SINGLE OPT, LH CONFIG
- 1104018 - ASSY, OUTLET TABLE, 65IN LG, SINGLE OPT, LH CONFIG
- 1104019 - ASSY, OUTLET TABLE, 65IN LG, DUAL OPT, LH CONFIG
- 1104020 - ASSY, DOWNENDER, STANDARD, LH CONFIG

3.2 Electrical Drawings

- E-DWG-0012_A SYSTEM DIAGRAM CYL-SONIC IND
- E-DWG-0013_A - CYLSONIC IND CONFIG 1
- E-DWG-0014_A - CYLSONIC IND CONFIG 2
- E-DWG-0015_A - CYLSONIC IND CONFIG 3
- E-DWG-0016_A - CYLSONIC IND CONFIG 4