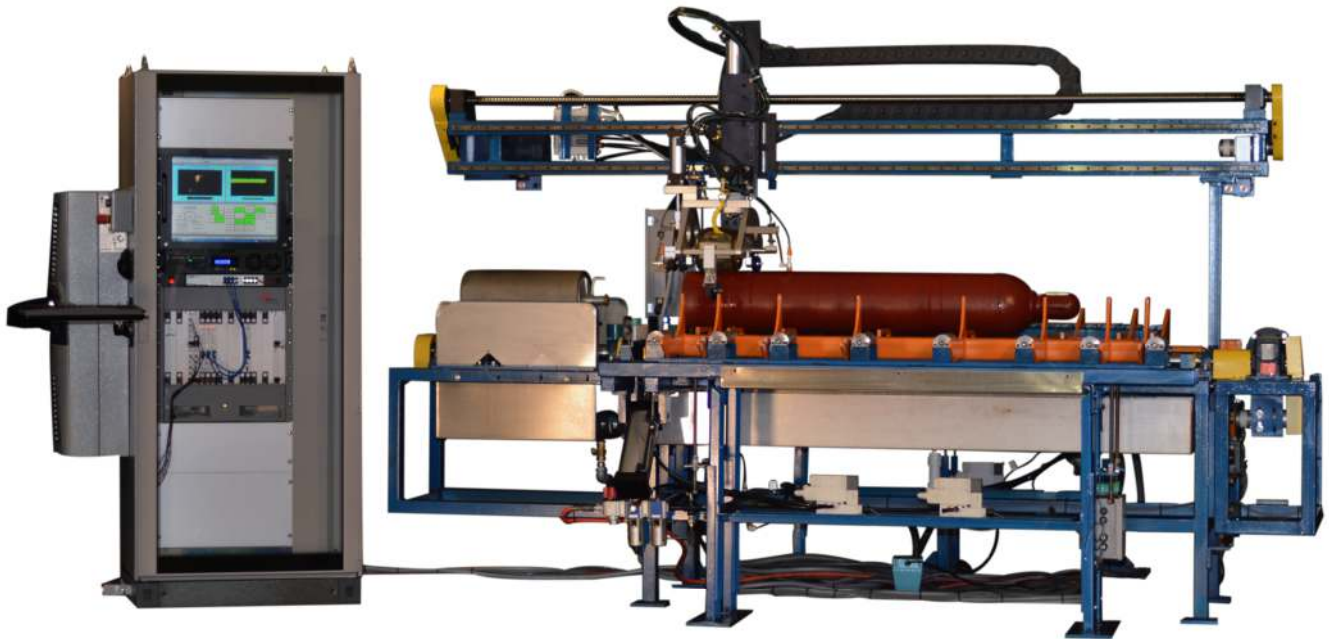


Cyl-Sonic Industrial



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Document: PB-0005

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Contents

1 Introduction	4
1.1 Cyl-Sonic Industrial at a glance.....	4
2 Customer Service & Spare Parts.....	5
2.1 1100615 - ASSY, INDUSTRIAL UE, VERTICAL LIFT, RH.....	5
2.2 1100616 - ASSY, INDUSTRIAL UE, VERTICAL LIFT, LH.....	7
2.3 1000141 - ASSY, BRONCO HEAD, LC, LH CONFIG.....	8
2.4 1000458 - ASSY, BRONCO HEAD, LC, RH CONFIG.....	9
2.5 1100328 - ASSY, STABILIZER PIN, BRONCO HEAD.....	9
2.6 1104404 - ASSY, RSU HOLDER AND WHEEL	10
2.7 1104368 - KIT, BRONCO HEAD PARTS.....	11
2.8 1100414 - ASSEMBLY, SIDE PLATE, BRONCO HEAD	13
2.9 1100613 - ASSEMBLY CLAMP ARM BRONCO HEAD	14
2.10 1100614 - ASSEMBLY SHAFT DRIVE ARM BRONCO HEAD	15
2.11 1103005 - ASSY, TLV SENSOR ARM RETROFIT, LC	16
2.12 1100316 - ASSY, WATER BLOCK WITH SHUTOFF	17
2.13 1100627 - ASSY, COUPLANT PIPE, ADJUSTABLE.....	18
2.14 1104001 - ASSY, MAIN TEST BED, RH CONFIG.....	19
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
2.16 ASSY, UPENDER, PASS THROUGH.....	36
2.16.1 1104003 - ASSY, UPENDER, PASS THROUGH, RH CONFIG.....	37
2.16.2 1104013 - ASSY, UPENDER, PASS THROUGH, LH CONFIG	37
2.17 ASSY, LOAD CONVEYOR.....	40
2.17.1 1104004 - ASSY, LOAD CONVEYOR, RH CONFIG.....	40
2.17.2 1104014 - ASSY, LOAD CONVEYOR, LH CONFIG	40
2.18 ASSY, INLET TABLE, 65IN LONG	45
2.18.1 1104005 - ASSY, INLET TABLE, 65IN LG, SINGLE OPT, RH CONFIG.....	50
2.18.2 1104015 - ASSY, INLET TABLE, 65IN LG, SINGLE OPT, LH CONFIG	50
2.18.3 1104006 - ASSY, INLET TABLE #1, 65IN LG, DUAL OPT, RH CONFIG.....	52
2.18.4 1104016 - ASSY, INLET TABLE #1, 65IN LG, DUAL OPT, LH CONFIG	52
2.19 ASSY, OUTLET TABLE, 65IN LG.....	58

2.19.1 1104008 - ASSY, OUTLET TABLE, 65IN LG, SINGLE OPT, RH CONFIG	58
2.19.2 1104018 - ASSY, OUTLET TABLE, 65IN LG, SINGLE OPT, LH CONFIG.....	58
2.19.3 1104009 - ASSY, OUTLET TABLE #2, 65IN LG, DUAL OPT, RH CONFIG	65
2.19.4 1104019 - ASSY, OUTLET TABLE #2, 65IN LG, DUAL OPT, LH CONFIG.....	65
2.20 ASSY, DOWNENDER, STANDARD.....	68
2.20.1 1104010 - ASSY, DOWNENDER, STANDARD, RH CONFIG	69
2.20.2 1104020 - ASSY, DOWNENDER, STANDARD, LH CONFIG	69
2.20.3 1104710 - ASSY, DOWNENDER, STANDARD, RH CONFIG WITH OUTLET	72
2.20.4 1104720 - ASSY, DOWNENDER, STANDARD, LH CONFIG WITH OUTLET.....	72
2.21 1104210 - ASSY, DSP32 SYSTEM, 12 CHNL.....	75
2.22 1104165 - ASSY, SIDE PLINTH UT CONNECTOR AND CABLE.....	76
2.23 1104280 - ASSY, PLINTH, CYL IND, REAR PNL, FULL ASSM	77
2.24 ELECTRONICS CABINET PARTS.....	79
2.25 1102779 - ASSY, ENC, 18 TOOTH, WITH ENCODER, WITH Z, LC	80
2.26 1104357 - ASSY, E-STOP J-BOX, 24VDC, GEN 2	81
2.27 1102465 - ASSY, RSU 7IN, CYL INDUSTRIAL, 9CH, DSP.....	82
2.28 CSPEC-0012 - SYSTEM CTRL COMPUTER, 1U, 16-500, RAID, WIN10 EMB.....	83
2.29 1104362 - ASSY, ETHERNET SWITCH WITH POWER 110VAC SWITCH.....	83
2.30 1105581 - ASSY, ICIS CABINET COMPLETE AB CONFIG 1	83
2.31 1105582 - ASSY, ICIS CABINET COMPLETE AB CONFIG 2	83
2.32 1105583 - ASSY, ICIS CABINET COMPLETE AB CONFIG 3	83
2.33 1105584 - ASSY, ICIS CABINET COMPLETE AB CONFIG 4	83
2.34 System Cables.....	83
3 Reference Documents.....	84
3.1 Mechanical Drawings.....	84
3.2 Electrical Drawings.....	84

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)

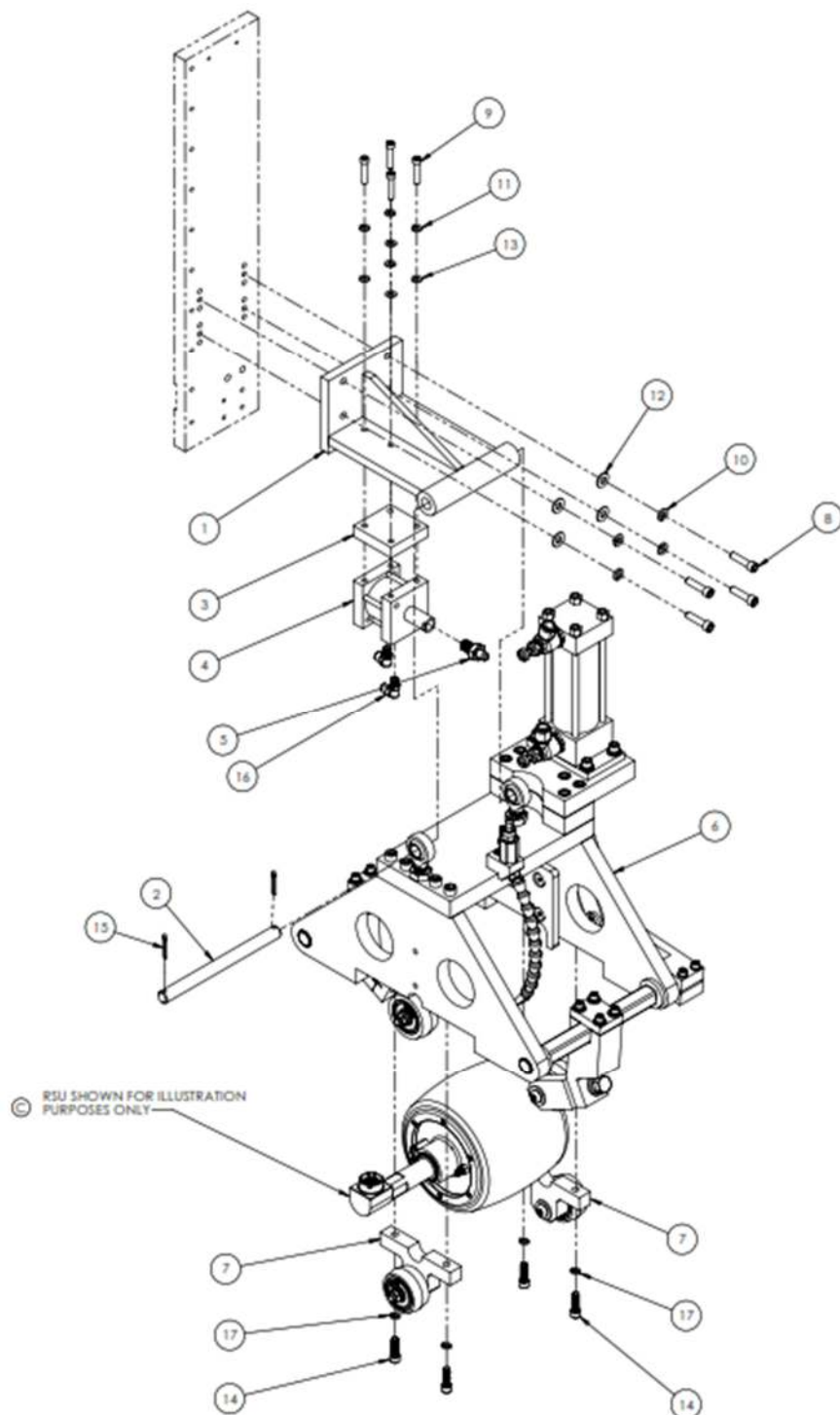
The Nordco DSP500 system, including the transducer wheel assembly mounting mechanics, was designed and manufactured by Nordco Rail Services and Inspection Technologies (1 Waterview Drive, Suite 102A, Shelton, CT 06484), a business unit of Nordco, Inc.

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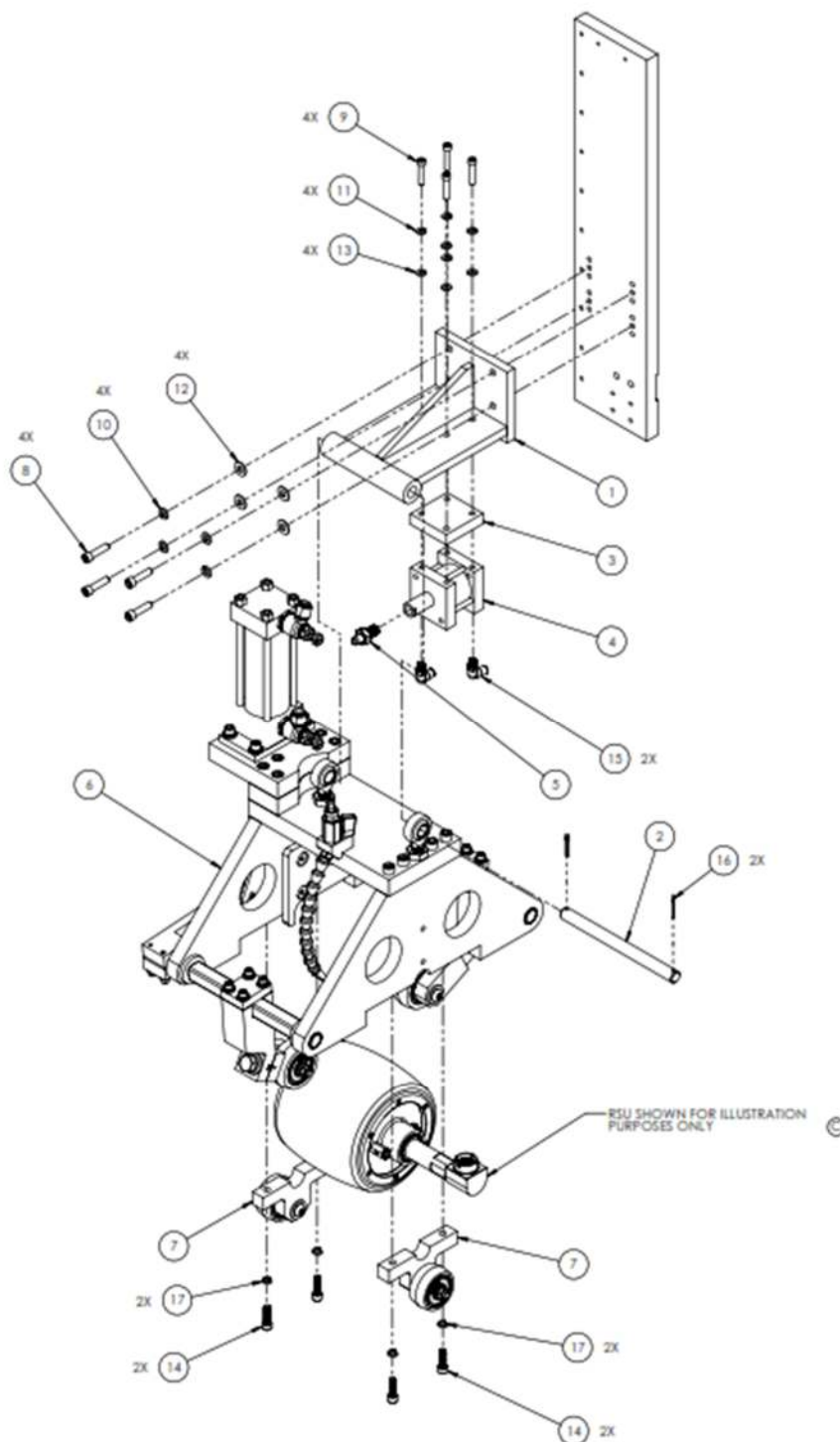
2 Customer Service & Spare Parts

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



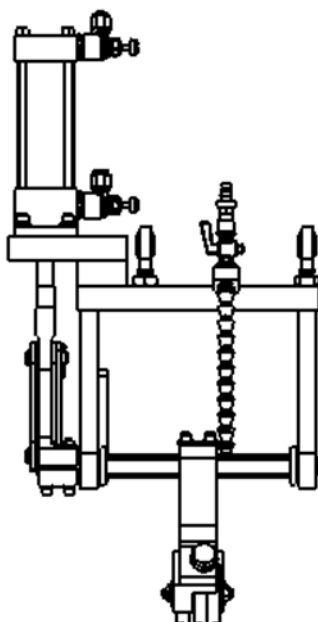
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6300009	MOUNT, PIVOTING, BRONCO HEAD	1
2	6300008	PIN, HEAD HANGER, BRONCO HEAD	1
3	6300007	BRACKET, CYLINDER STABILIZER, BRONCO	1
4	8001366	CYLINDER, AIR, DBL ACTING, SINGLE END ROD	1
5	1100328	ASSY, STABILIZER PIN, BRONCO HEAD	1
6	1000458	ASSY, BRONCO HEAD, LC, RH CONFIG	1
7	1104404	ASSY, RSU HOLDER AND WHEEL	2
8	SHCS_SS-0.31-18x1.25	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	FW_SS-0.31	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	PIN_COTTER_SS-0.125x1.00L	1/8 DIA. X 1.00 LG COTTER PIN	2
16	2003010	FITTING, MALE 90 DEG, 0.25IN OD TUBE X 0.125IN	2
17	LWH_SS-0.31	WASHER, HIGH COLLAR SPLIT LOCK, 5/16, SS	4

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



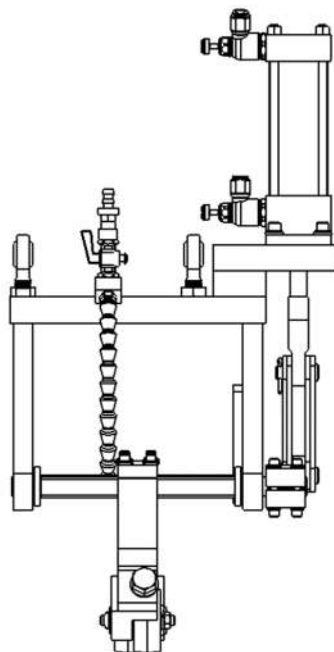
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6300009	MOUNT, PIVOTING, BRONCO HEAD	1
2	6300008	PIN, HEAD HANGER, BRONCO HEAD	1
3	6300007	BRACKET, CYLINDER STABLIZER, BRONCO	1
4	8001366	CYLINDER, AIR, DBL ACTING, SINGLE END ROD	1
5	1100328	ASSY, STABILIZER PIN, BRONCO HEAD	1
6	1000141	ASSY, BRONCO HEAD, LC, LH CONFIG	1
7	1104404	ASSY, RSU HOLDER AND WHEEL	2
8	SHCS_SS-0.31-18x1.25	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	FW_SS-0.31	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	LWH_SS-0.31	WASHER, HIGH COLLAR SPLIT LOCK, 5/16, SS	4

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



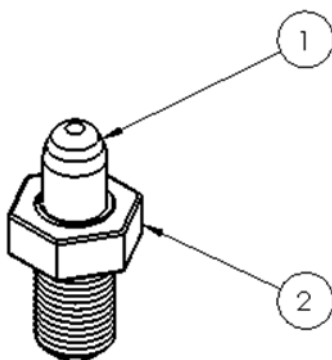
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1104368	KIT, BRONCO HEAD PARTS	1

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



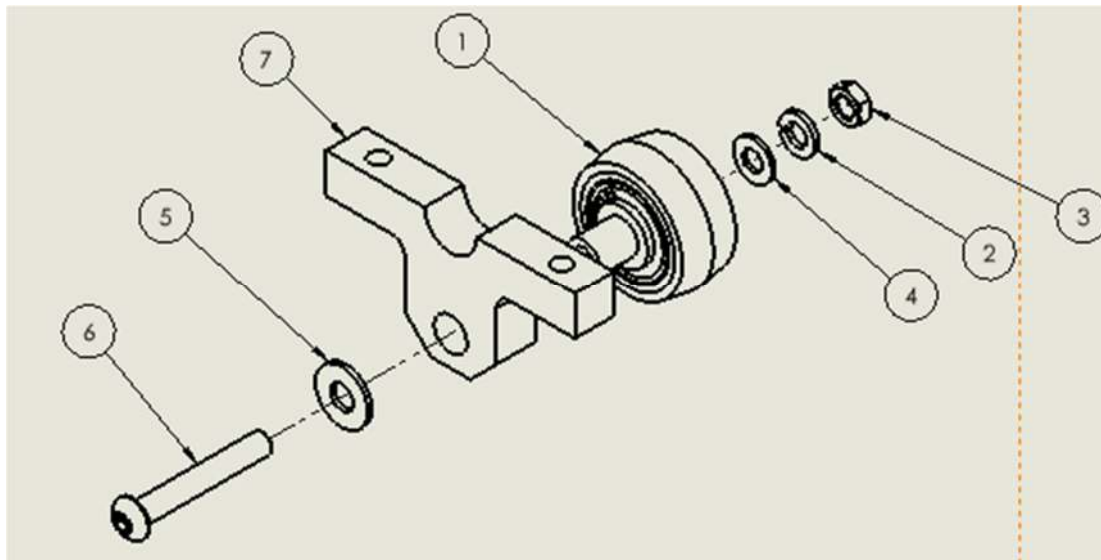
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1104368	KIT, BRONCO HEAD PARTS	1

2.5 1100328 - ASSY, STABILIZER PIN, BRONCO HEAD



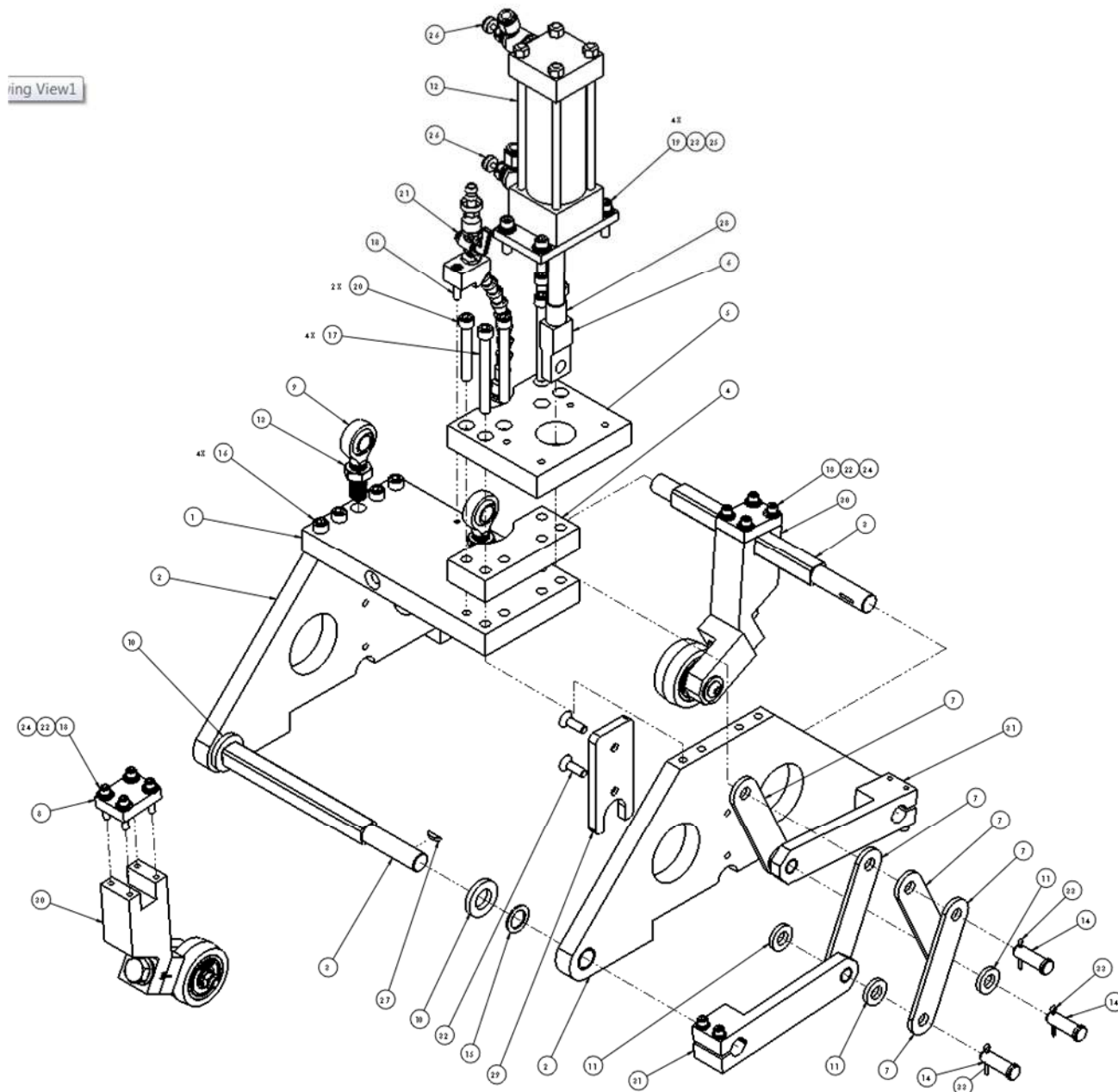
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6300026	PIN, STABILIZER, BRONCO HEAD	1
2	1000868	NUT, JAM, 1/2"-20, 18-8 STAINLESS	1

2.6 1104404 - ASSY, RSU HOLDER AND WHEEL



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

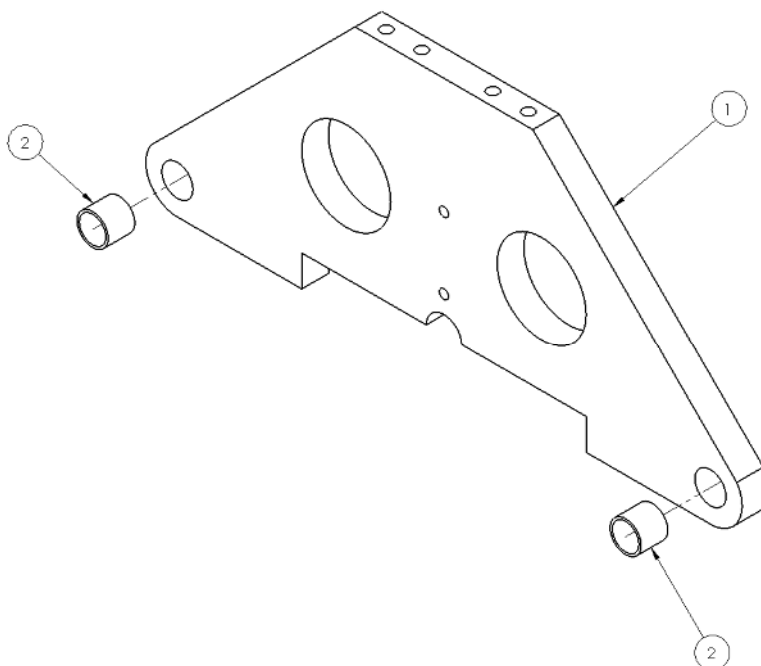
2.7 1104368 – KIT, BRONCO HEAD PARTS



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

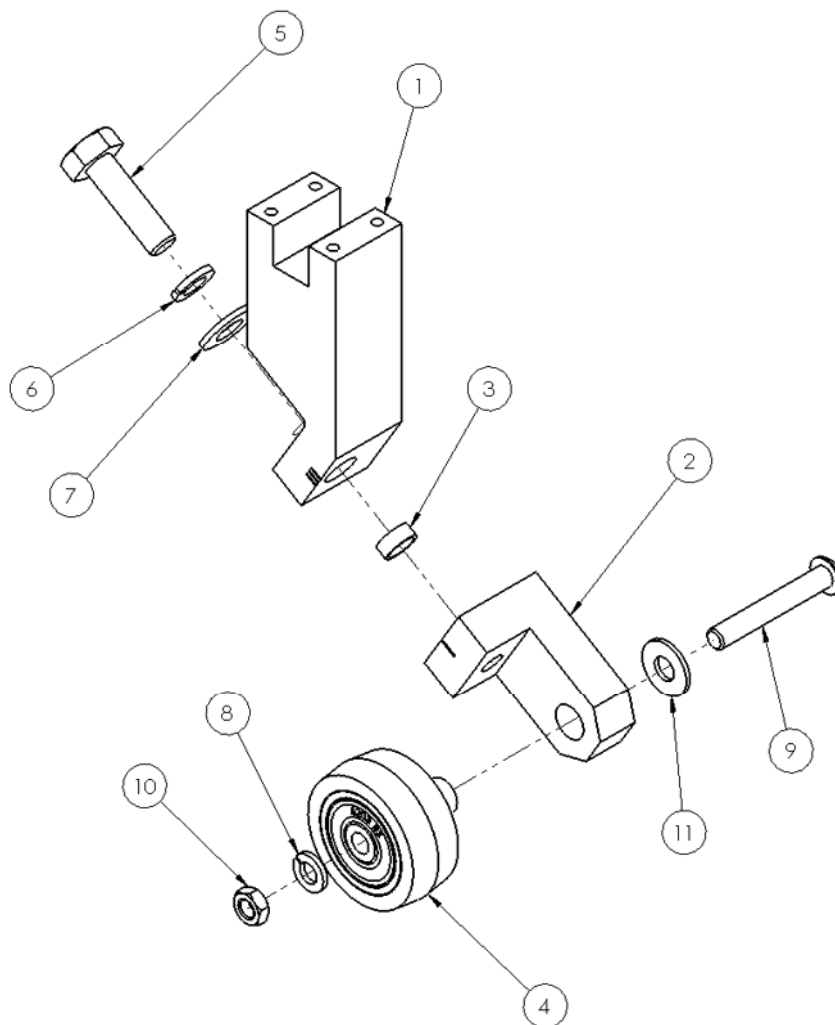
9	8001361	BALL JOINT END, PTFE-LINED STAINLESS STEEL BALL JOINTROD END	2
10	1000461	WASHER, EXTRA THICK, 3/4" SCREW SIZE	4
11	1000462	WASHER, 18-8 SS, 1/2" SCREW SIZE	4
12	8001364	CYLINDER, PNEUMATIC ACTUATOR, ALUMINUM	1
13	1105878	THIN JAM NUT, 5/8-18	2
14	1000463	PIN, CLEVIS ZINC PLATED STEEL WEAR-RESISTANT, 1/2" D	3
15	8001461	WASHER, THRUST, 3/4"ID	4
16	SHCS_SS-0.38-16x1.50	SOCKET HEAD CAP SCREW, SS, 3/8-16 X 1.50 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-0.31-18x1.25	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



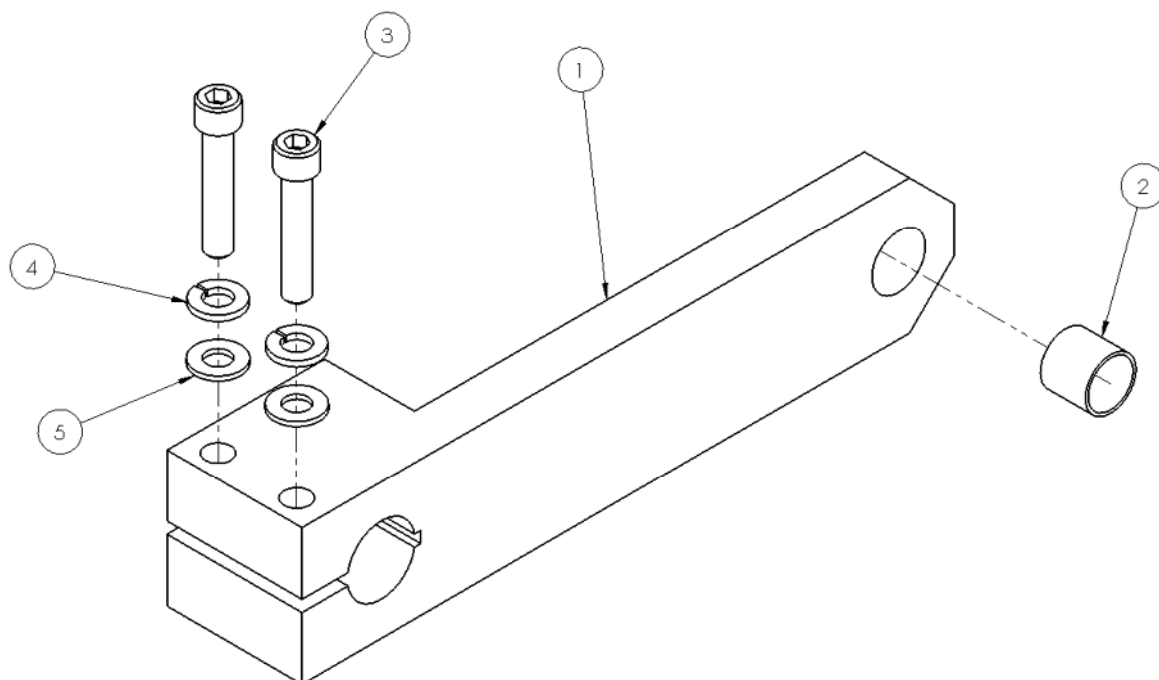
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6300011	PLATE, BRONCO HEAD, SIDE	1
2	8000171	BUSHING, SELF-LUBRICATING BEARING	2

2.9 1100613 - ASSEMBLY CLAMP ARM BRONCO HEAD



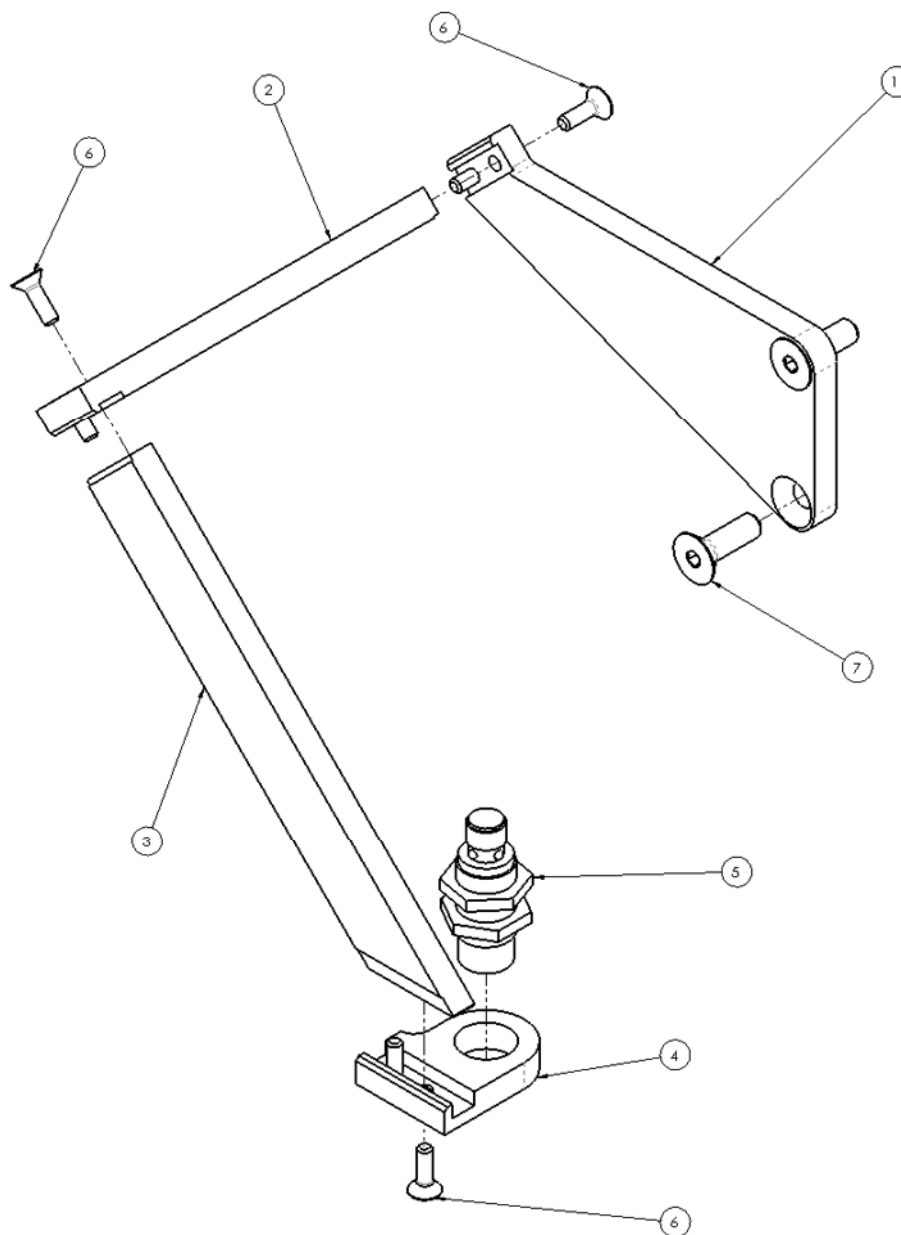
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6300017	SPACER, CLAMP WHEEL ARM, BRONCO	1
2	6300018	BRACKET, GUIDE WHEEL, BRONCO HEAD	1
3	6300024	BUSHING, GUIDE WHEEL BRACKET, SLEEVE, BRONCO	1
4	6300025	ASSEMBLY, WHEEL, BRONCO CLAMP WHEEL	1
5	HHB_SS-0.50-13X1.500	HEX HEAD BOLT, 1/2-13 X 1.50 LG	1
6	LW_SS-0.50	LOCK WASHER 1/2 SS	1
7	1104162	SHIM, ROUND	1
8	LW_SS-0.38	LOCK WASHER 3/8 SS	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



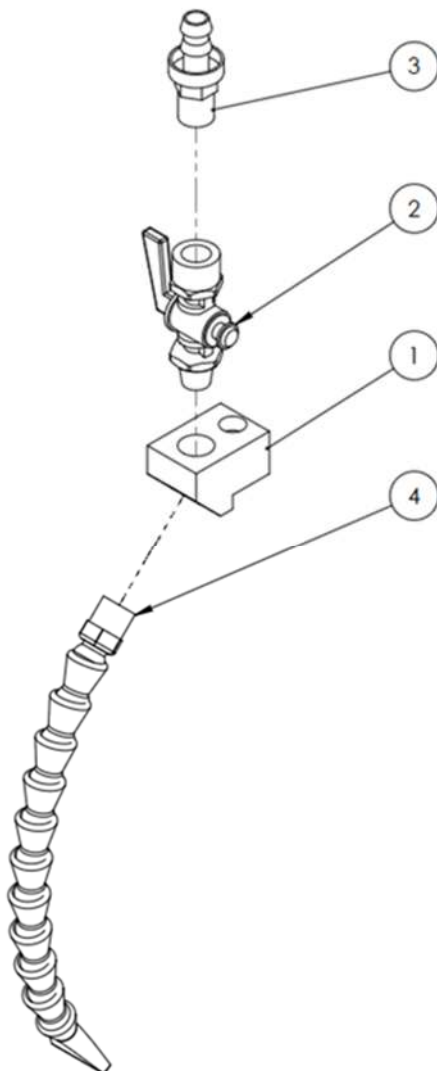
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6300016	ARM, CLAMP SHAFT DRIVE, BRONCO	1
2	1000460	BUSHING, SELF-LUBRICATING BEARING	1
3	SHCS_SS-0.25-20x1.50	SOCKET HEAD CAP SCREW, SS, 1/4-20 X 1.50 LG	2
4	LW_SS-0.25	LOCK WASHER, 1/4	2
5	1104163	SHIM, ROUND, 1/4IN ID, 3/8IN OD, SS	2

2.11 1103005 - ASSY, TLV SENSOR ARM RETROFIT, LC



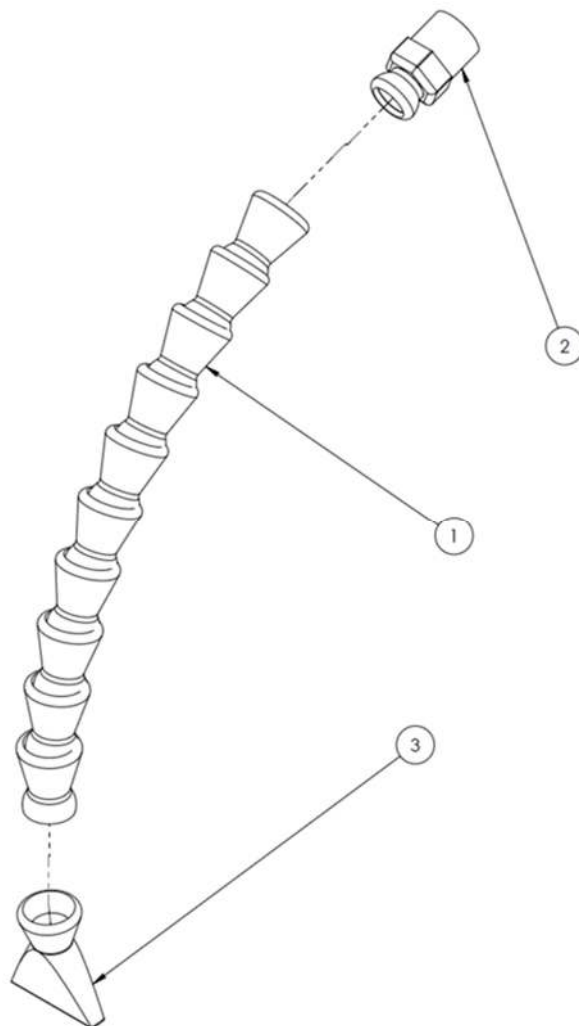
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1103006	MEMBER, RETROFIT MOUNTING, TLV SENSOR ARM	1
2	1103007	MEMBER, OUT, TLV SENSOR ARM	1
3	1103008	MEMBER, DOWN, TLV SENSOR ARM	1
4	1103009	SENSOR PLATE, TLV SENSOR ARM	1
5	1102736	INDUCTIVE PROXIMITY SENSOR, ORANGE, NO	1
6	FHCS_SS-10-24x0.625	SCREW FHCS 10-24 X .625 LG SS	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



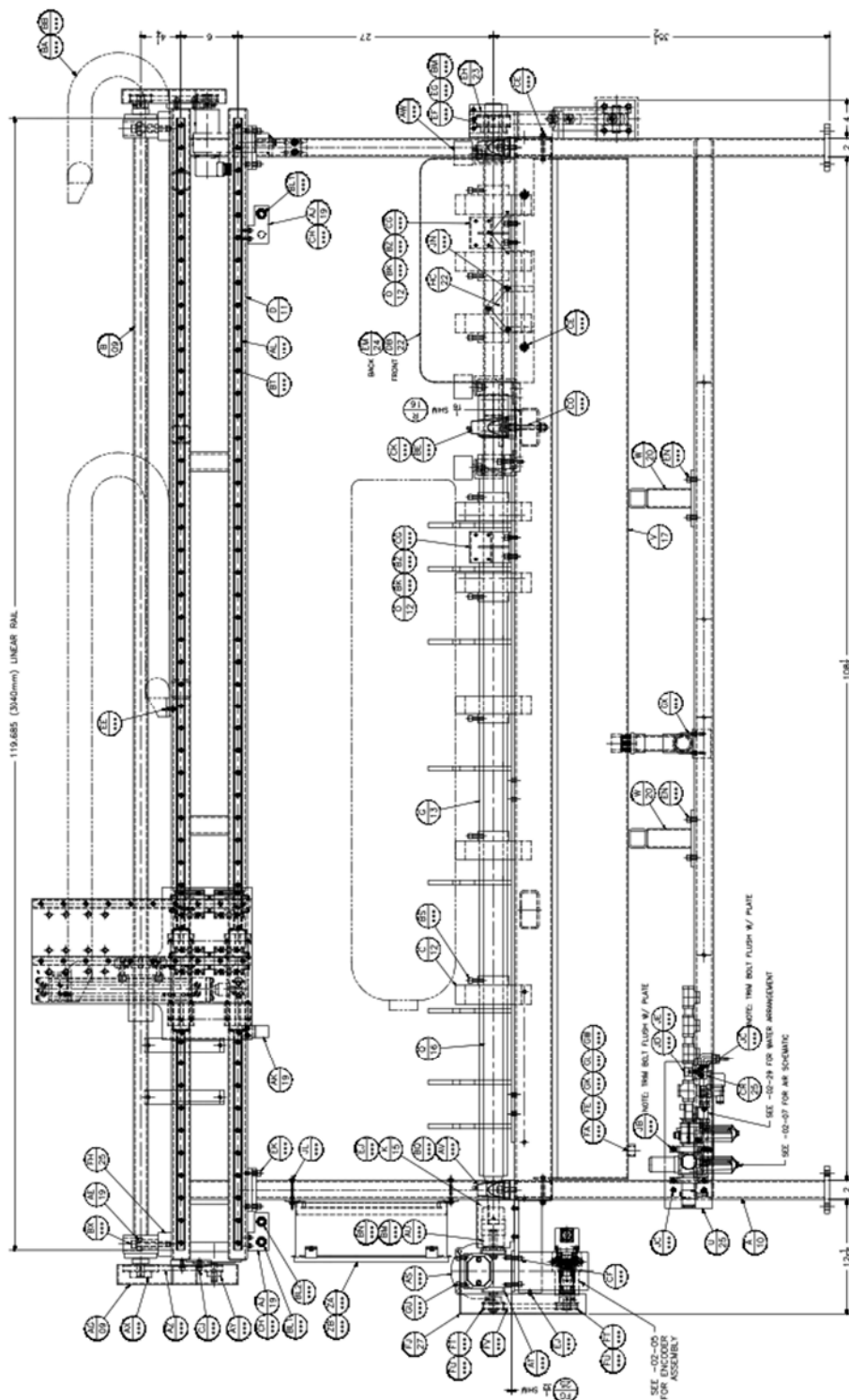
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	6001011	MANIFOLD, COUPLANT, ONE PORT	1
2	1104698	VALVE, .25 NPT MALE TO FEMALE, MINIATURE, BRASS	1
3	8001085	FITTING, HOSE, ¼ NPT X ¼ BARB, BRASS	1
4	1100627	ASSY, COUPLANT PIPE, ADJUSTABLE	1

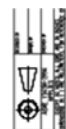
2.13 1100627 - ASSY, COUPLANT PIPE, ADJUSTABLE

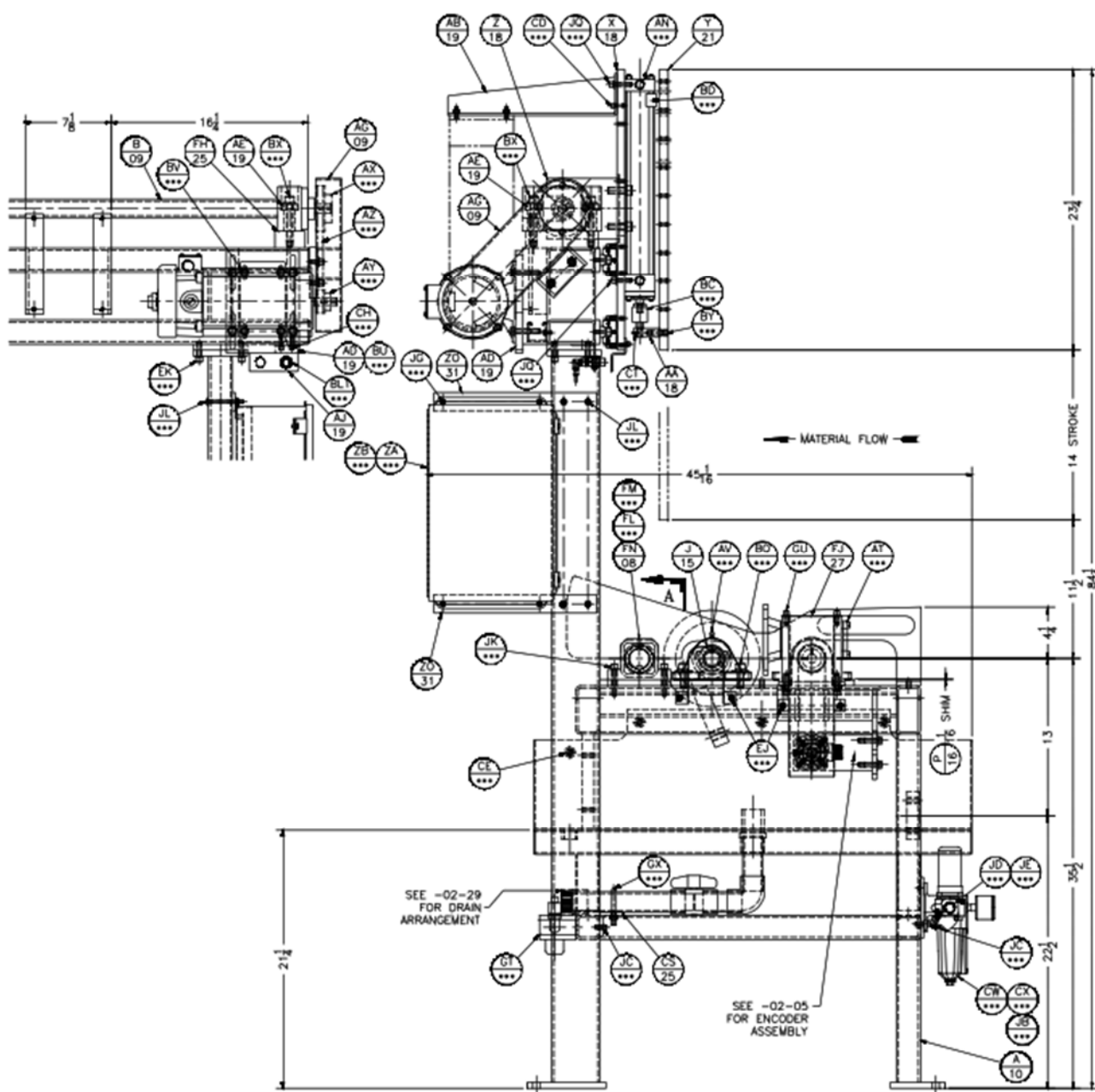


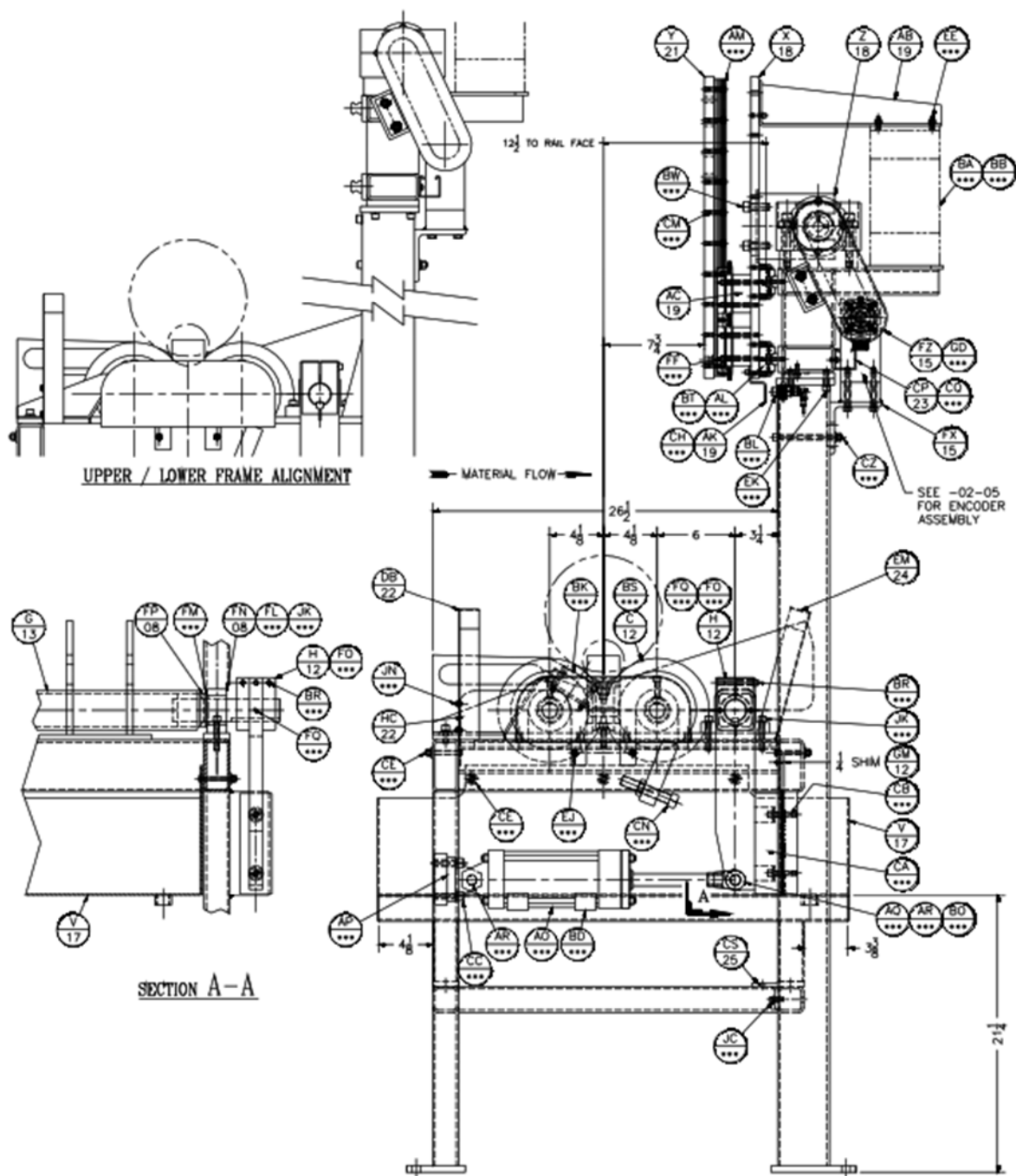
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1100624	1/4" ID LOC-LINE ANY-WHICH-WAY COOLANT HOSE,	1
2	1100625	COOLANT SUPPLY CONNECTOR, 1/4 NPT MALE	1
3	1100626	1" FLAT NOZZLE	1

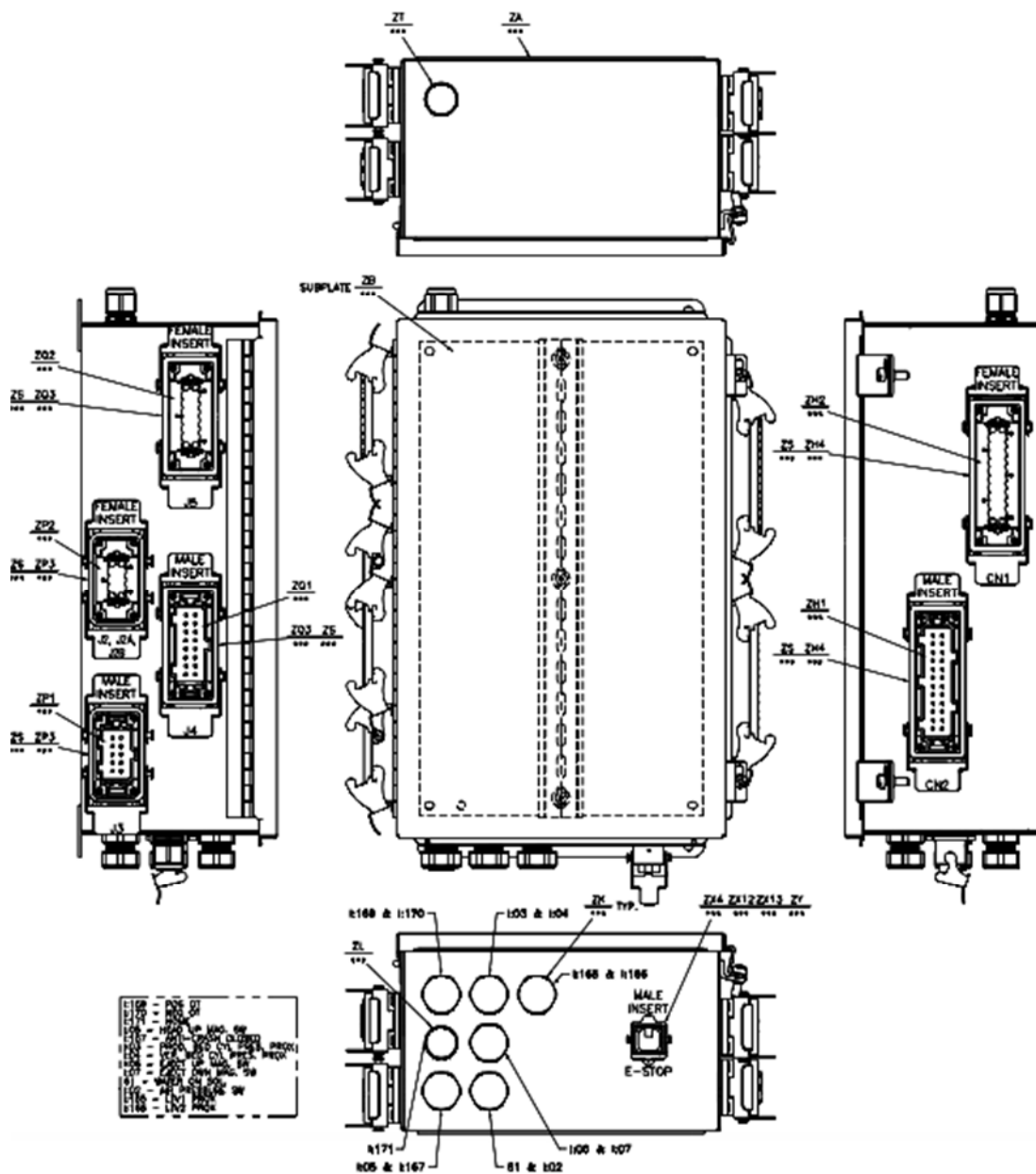
2.14 1104001 - ASSY, MAIN TEST BED, RH CONFIG

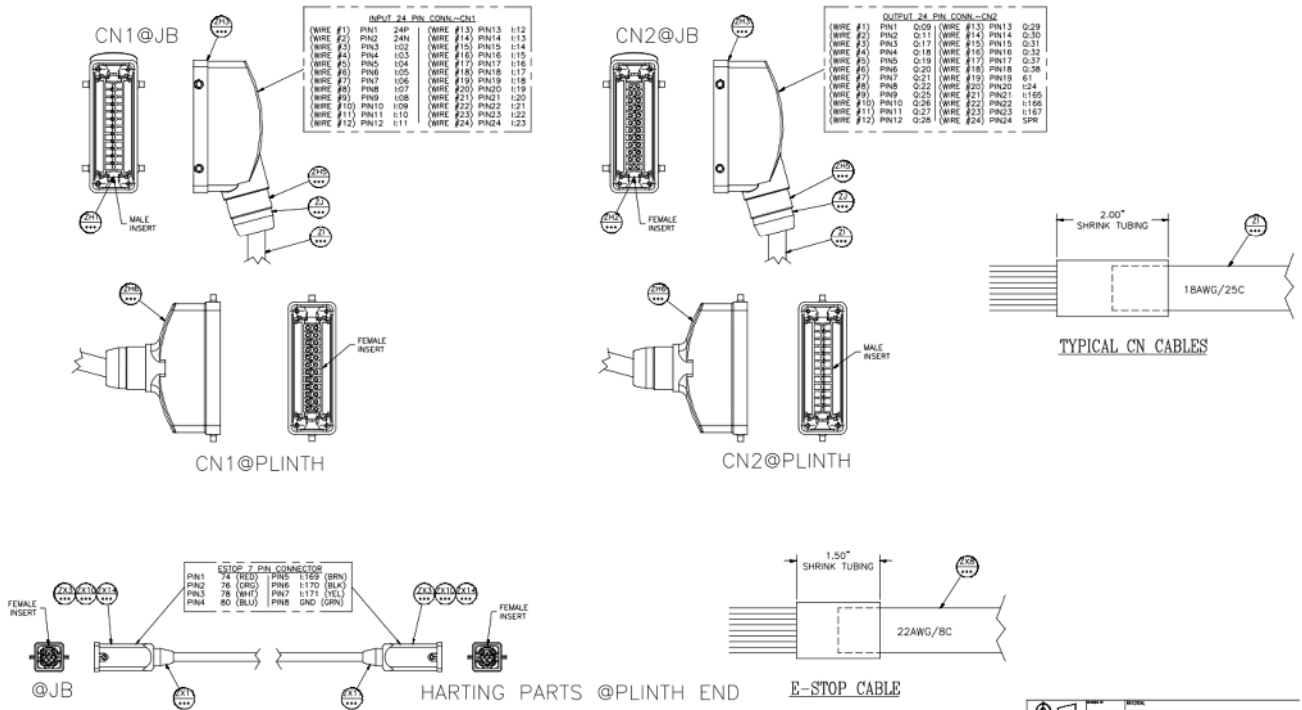












ITEM NO.	DRAWING	DESCRIPTION	QTY
A	11729-02-10	MAIN FRAME ~ W.S.	1
B	11729-02-09	BALLSCREW ASSEMBLY ~ PURCH	1
C	11729-02-12	DRIVE ROLLER ~ ANODIZED ALUMINUM AND 80 DUROMETER URETHANE	16
D	11729-02-11	UPPER FRAME ~ W.S.	1
G	11729-02-13	LIFT ARM~ W.S.	1
H	11729-02-12	PIVOT ARM ~ W.S.	1
J	11729-02-15	GUARD ~ W.S.	1
K	11729-02-15	GUARD ~ CRS	1
L	11729-02-28	LIFT ARM SHAFT EXTENSION ~ STEEL (RIGHT HAND UNIT)	1
M	11729-02-28	LIFT ARM SHAFT COUPLING	1
O	11729-02-12	BRACKET ~ W.S.	2
P	11729-02-16	PILLOW BLOCK SHIM ~ STEEL	4
Q	11729-02-16	ROLL SHAFT ~ SS 303	2
R	11729-02-16	PILLOW BLOCK SHIM ~ STEEL	2
S	11729-02-16	CENTER BEARING SUPPORT-W.S.	1
T	11729-02-16	BEARING BLOCK SPACER ~ CRS	1
U	11729-02-25	FRL MOUNTING PLATE ~ HRS	1
V	11729-02-17	PAN ~ WELDED STAINLESS STEEL	1
W	11729-02-20	PAN SUPPORT ~ W.S.	2
X	11729-02-18	CARRIAGE PLATE ~ STEEL	1
Y	11729-02-21	LIFT PLATE ~ T6061 BLACK ANODIZED ALUMINUM	1
Z	11729-02-18	NUT MOUNTING PLATE ~ CRS	1
AA	11729-02-18	ROD MOUNTING PLATE ~ CRS	1
AB	11729-02-19	BRACKET ~ W.S.	1
AC	11729-02-19	SPACER ~ STEEL	4
AD	11729-02-19	MOTOR MOUNTING PLATE ~ STEEL	1

AE	11729-02-19	SPACER ~ STEEL	4
AG	11729-02-09	PULLEY GUARD ~ W.S.	1
AJ	11729-02-19	BRACKET ~ CRS	2
AK	11729-02-19	BRACKET ~ CRS	1
AL	11729-02-01	LINEAR GUIDEWAY ASSEMBLY, INTERCHANGEABLE TYPE, (2) HGW25HC BLOCK PER RAIL, 3040mm LG RAIL	2
AM	11729-02-01	LINEAR GUIDEWAY ASSEMBLY, INTERCHANGEABLE TYPE, (2) HGW25HC BLOCK PER RAIL, 580mm LG RAIL	2
AN	11729-02-01	CYLINDER, 2" BORE X 14" STROKE, NFPA MS4 BOTTOM TAP MOUNT, 5/8" ROD, 7/16-20 MALE ROD THREAD, 3/8NPT PORTS	1
AO	11729-02-01	CYLINDER, 4" BORE X 6" STROKE, NFPA MP1 CLEVIS MOUNT, 1" ROD, 3/4-16 MALE ROD THREAD, 1/2 NPT PORTS	1
AP	11729-02-01	CYLINDER EYE BRACKET 3/4" DIA. PIN	1
AQ	11729-02-01	CYLINDER ROD CLEVIS, 3/4-16 THREADS	1
AR	11729-02-01	CYLINDER PIVOT PIN, 3/4" DIA.	1
AS	11729-02-01	1-1/2hp 2500rpm 180vdc MOTOR, SCR TYPE	2
AT	11729-02-01	SINGLE REDUCTION FLANGED QUILL TYPE WORM GEAR REDUCER, 5:1 RATIO	1
AU	11729-02-01	3-JAW TYPE COUPLING, 1-1/4" BORE WITH 1/4" KEYWAY ONE END, 3/4" DIA BORE WITH 3/16 KEYWAY OTHER END	1
AV	11729-02-01	1-1/4" BALL BEARING PILLOW BLOCK	4
AW	11729-02-01	60 DURO SHORE A URETHANE ROLLER, 2-1/2" DIA, 1/2-13 THREADS	3
AX	11729-02-01	TIMING BELT PULLEY FOR 1/2" WIDE "L" SECTION BELT, TYPE C1F, BUSHING #SDS, 3/4" BORE	1
AY	11729-02-01	TIMING BELT PULLEY FOR 1/2" WIDE "L" SECTION BELT, 5/8" BORE	1
AZ	11729-02-01	TIMING BELT	1
BA	11729-02-01	TRACK, 33 LINKS LG., SNAP OPEN ALONG OUTSIDE RADIUS	1
BB	11729-02-01	FIXED END BRACKET W/ STRAIN RELIEF, MOVING END BRACKET W/ STRAIN RELIEF	1
BC	11729-02-01	ROD COUPLER, 7/16-20 THREADS	1
BD	11729-02-01	REED SWITCH, TIE ROD MOUNT, QUICK DISCONNECT, LED, W/ 10 METER CABLE	4
BE	11729-02-01	2" BALL BEARING PILLOW BLOCK	2
BH	11729-02-01	3/8 NPT MALE TO 3/8 TUBE RIGHT ANGLE FLOW CONTROL	2
BJ	11729-02-01	1/2 NPT MALE TO 1/2 TUBE RIGHT ANGLE FLOW CONTROL	2
BK	11729-02-01	3-WIRE DC INDUCTIVE PROXIMITY SWITCH, 50mm, PNP, 10-60VDC SUPPLY, 200mA OUTPUT, 1/2" NPT CONNECTION	2
BL1	11729-02-01	18mm BARREL TYPE PROXIMITY SWITCH, THREE-WIRE 24VDC, NON-SHIELDED, NORMALLY CLOSED, PNP	2
BL2	11729-02-01	18mm BARREL TYPE PROXIMITY SWITCH, THREE-WIRE 24VDC, NON-SHIELDED, NORMALLY OPEN, PNP	1

BM	11729-02-01	KEYSTOCK 1/4 X 1/4 X 2 LG., R.O.E.	3
BN	11729-02-01	KEYSTOCK 3/16 X 3/16 X 1-3/4 LG.	1
BO	11729-02-01	BRONZE BUSHING 3/4 ID X 7/8 OD X 1 LG.	1
BQ1	11729-02-01	SHCS 1/2-13 X 1-1/2 LG. ~ STN STL	8
BQ2	11729-02-01	1/2 LOCKWASHER ~ STN STL	8
BQ3	11729-02-01	1/2 USS (OVERSIZED) FLATWASHER ~ STN STL	8
BR1	11729-02-01	SHCS 5/16-18 X 2-1/4 LG ~ STN STL	3
BR2	11729-02-01	5/16 LOCKWASHER ~ STN STL	3
BS1	11729-02-01	SHCS 3/8-16 X 1-1/4 LG ~ STN STL	16
BS2	11729-02-01	3/8-16 HEX NUT~STN. STL.	16
BT1	11729-02-01	SHCS 1/4-20 X 1" LG. ~ GR8	118
BT2	11729-02-01	1/4 HI-COLLAR LOCKWASHER	118
BU1	11729-02-01	HHCS 3/8-16 X 1-1/2 LG. ~ GR8	4
BU2	11729-02-01	3/8 LOCKWASHER	4
BU3	11729-02-01	3/8 FLAT WASHER	4
BV1	11729-02-01	HHCS 5/16-18 X 1" LG. ~ GR8	4
BV2	11729-02-01	5/16 LOCKWASHER	4
BV3	11729-02-01	5/16 FLAT WASHER	4
BW1	11729-02-01	SHCS 1/2-13 X 1-1/2 LG. ~ GR8	5
BW2	11729-02-01	1/2 LOCKWASHER	5
BX1	11729-02-01	SHCS 1/2-13 X 3-1/4 LG. ~ GR8	4
BX2	11729-02-01	1/2 LOCKWASHER	4
BY	11729-02-01	SHCS 5/16-18 X 1" LG. ~ GR8	2
BZ1	11729-02-01	SHCS 3/8-16 X 1" LG. ~ STN STL	4
BZ2	11729-02-01	3/8 LOCKWASHER ~ STN STL	4
BZ3	11729-02-01	3/8 FLAT WASHER ~ STN STL	4
CA	11729-02-01	BUMPER	1
CB1	11729-02-01	SHCS 5/16-18 X 2 LG. ~ GR8	2
CB2	11729-02-01	5/16 LOCKWASHER	2
CB3	11729-02-01	5/16 USS (OVERSIZED) FLAT WASHER	2
CC1	11729-02-01	SHCS 1/2-13 X 1 1/4" LG	4
CC2	11729-02-01	1/2 LOCKWASHER	4
CD1	11729-02-01	SHCS 1/4-20 X 3/4 LG. ~ GR8	2
CD2	11729-02-01	1/4 LOCKWASHER	2
CE1	11729-02-01	BHCS 5/16-18 X 2-3/4 LG. ~ STN STL	12
CE2	11729-02-01	HEX NUT 5/16-18 ~ STN STL	12
CE3	11729-02-01	5/16 LOCKWASHER ~ STN STL	12
CE4	11729-02-01	5/16 FLAT WASHER ~ STN STL	12
CF1	11729-02-01	SHCS 5/16-18 X 1-1/4 LG. ~ GR8	6
CF2	11729-02-01	5/16 LOCKWASHER	6
CG1	11729-02-01	SHCS #10-24 X 3/4 LG. ~ STN STL	8
CG2	11729-02-01	#10-24 HEX NUT ~ STN STL	8
CG3	11729-02-01	#10 LOCKWASHER ~ STN STL	8
CG4	11729-02-01	#10 FLAT WASHER~ STN STL	8
CH1	11729-02-01	SHCS 1/4-20 X 3/4 LG. ~ GR8	6
CH2	11729-02-01	1/4 LOCKWASHER	6
CJ1	11729-02-01	SHCS 5/16-18 X 3/4 LG. ~ GR8	2
CJ2	11729-02-01	5/16 LOCKWASHER	2
CJ3	11729-02-01	5/16 FLAT WASHER	2
CK1	11729-02-01	SHCS 5/8-11 X 1 3/4 LG ~ STN STL	4

CK2	11729-02-01	5/8 LOCKWASHER ~ STN STL	4
CK3	11729-02-01	5/8 FLAT WASHER ~ STN STL	4
CM1	11729-02-01	SHCS 1/4-20 X 1 LG. ~ STN STL	20
CM2	11729-02-01	1/4 HI-COLLAR LOCKWASHER ~ STN STL	20
CN1	11729-02-01	SQ HD SETSCREW 3/4-10 X 4" LG.	2
CN2	11729-02-01	3/4-10 HEX JAM NUT	2
CO1	11729-02-01	SHCS 1/2-13 X 3 1/2 LG ~ STN STL	2
CO2	11729-02-01	1/2 LOCKWASHER ~ STN STL	2
CO3	11729-02-01	1/2" FLAT WASHER ~ STN STL	2
CO4	11729-02-01	1/2-13 HEX NUT ~ STN STL	2
CP	11729-02-23	SLOTTED STEEL STRUT CHANNEL, 1 5/8 X 1 5/8 X 8' LG	1
CQ1	11729-02-01	BHSCS 1/4-20 X 1/2 LG. ~ GR8	4
CQ2	11729-02-01	1/4 LOCKWASHER	4
CR	11729-02-25	FRL SUPPORT ANGLE ~ STL.	1
CS	11729-02-25	DRAIN SUPPORT ANGLE ~ STL.	1
CT	11729-02-01	ALLOY STEEL NYLON-TIP SET SCREWS, BLACK-OXIDE, #10-24 THREAD, 3/8" LONG	1
CU	11729-02-01	SMC VALVE MANIFOLD ASSEMBLY	1
CW	11729-02-01	1/2" FILTER / REGULATOR / LUBRICATOR W/ GAUGE & BRACKET	1
CX	11729-02-01	PRESSURE RELIEF VALVE, 1/2 NPT, STAMPED BRACKET	1
CZ1	11729-02-01	SHCS 3/8-16 X 5 LG ~ STN STL	2
CZ2	11729-02-01	3/8 FLAT WASHER ~ STN STL	2
CZ3	11729-02-01	3/8 LOCKWASHER ~ STN STL	2
CZ4	11729-02-01	3/8-16 HEX NUT ~ STN STL	2
DB	11729-02-22	SPLASH PLATE ~ WELDED 304 STN. STL.	1
DC	11729-02-29	PUMP SUPPORT PLATE ~ STL	1
DD	11729-02-29	PUMP STRAP PLATE ~ STL	2
DE	11729-02-29	STD-WALL (SCHEDULE 40) WHITE PVC PIPE FITTING 1-1/4" PIPE SIZE, MALE ADAPTER, NPT MALE X SOCKET FEMALE	1
DF	11729-02-29	STD-WALL (SCHEDULE 40) WHITE PVC UNTHREADED PIPE 1-1/4" PIPE SIZE X 5' LENGTH	1
DG	11729-02-29	STD-WALL (SCHEDULE 40) WHITE PVC PIPE FITTING 1-1/4" PIPE, FEMALE ADAPTER, NPT FEMALE X SOCKET FEMALE	1
DH	11729-02-29	STD-WALL (SCHEDULE 40) WHITE PVC REDUCING BUSHING 1-1/4" PIPE MALE X 3/4 PIPE FEMALE ADAPTER	1
DJ	11729-02-29	PVC BALL VALVE 1-1/4" SOCKET CONNECTION	1
DK	11729-02-29	STD-WALL (SCHEDULE 40) WHITE PVC PIPE FITTING 1-1/4" PIPE SIZE, 90 DEG ELBOW	1
DL	11729-02-29	SUBMERSIBLE PUMP, 1/15 HP OIL FILLED, 20.3' MAX LIFT, INLET - 3/4 NPT FEMALE, OUTLET - 1/2 NPT MALE	1
DM	11729-02-07	PRESSURE SWITCH, 1/4" NPT	1
DN	11729-02-07	TUBE FITTING, STRAIGHT, 1/2" TUBE TO 1/2 NPT, #PC 1/2-N4UT	1
DP	11729-02-07	POLYURETHANE TUBING, 3/8" O.D. X 100', BLACK	68'
DQ	11729-02-07	OBSOLETE	
DR	11729-02-07	POLYURETHANE TUBING, 1/4" O.D. X 100', BLACK	38'

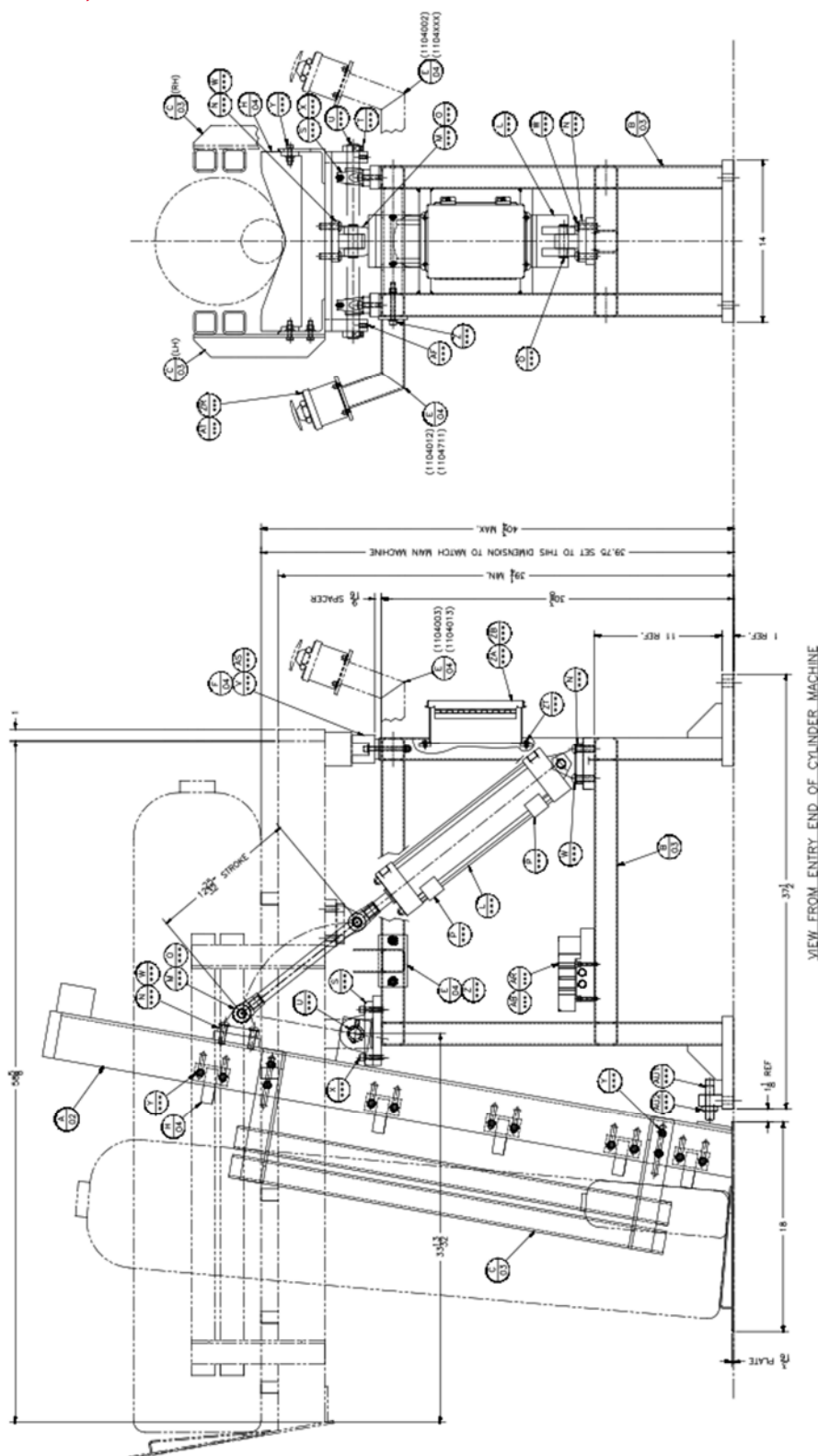
DS	11729-02-07	POLYURETHANE TUBING, 1/2" O.D. X 50', BLACK	43'
DT	11729-02-07	1/2" MUFFLER	1
DU	11729-02-07	OBSOLETE	
DV	11729-02-07	TUBE FITTING, 1/2" OD TUBE X 1/2 NPT, 90 DEGREE	5
DW	11729-02-07	1/2 NPT MALE TO FEMALE 90 DEGREE ELBOW (STREET) - IRON	1
DY	11729-02-07	1/2 NPT X 3" LG. NIPPLE	3
DZ	11729-02-07	1/2 NPT TEE - IRON	3
EA	11729-02-07	1/2 NPT CROSS - IRON	1
EB	11729-02-07	1/2NPT X 1/4 NPT HEX REDUCING BUSHING - IRON	1
EC	11729-02-07	1/2 NPT X 2-1/2" LG. NIPPLE	1
EE1	11729-02-01	FHSCS 1/4-20 X 1 LG. ~ GR8	4
EE2	11729-02-01	1/4-20 HEX NUT	4
EE3	11729-02-01	1/4 LOCKWASHER	4
EF	11729-02-01	GEARBELT PULLEY	2
EG	11729-02-01	GEARBELT	2
EH	11729-02-23	PULLEY GUARD ~ W.S.	1
EJ1	11729-02-01	BHSCS 1/4-20 X 3/8 LG. ~ STN STL	10
EJ2	11729-02-01	1/4 LOCKWASHER ~ STN STL	10
EK1	11729-02-01	SHCS 3/8-16 X 1 1/4 LG. ~ GR8	8
EK2	11729-02-01	3/8 LOCKWASHER	8
EM	11729-02-24	SPLASH PLATE ~ WELDED 304 STN STL	1
EN1	11729-02-01	SHCS 3/8-16 X 3.0 LG - GR8 (ZINC)	8
EN2	11729-02-01	3/8 LOCKWASHER	8
EN3	11729-02-01	3/8-16 HEX NUT (ZINC)	8
FA	11729-02-01	GALVANIZED PIPE NIPPLE, 3/4 SCH 40 X 2" LG	1
FE	11729-02-01	BALL LOCK VALVE 3/4" FEMALE NPT TO 3/4" FEMALE NPT	1
FF1	11729-02-01	SHCS 1/4-20 X 2-1/2 LG. ~ GR8	16
FF2	11729-02-01	1/4 HI-COLLAR LOCKWASHER	16
FG	11729-02-25	SPEED REDUCER SHIM ~ STL.	2
FH	11729-02-25	BEARING BLOCK SHIM ~ STL.	2
FJ	11729-02-27	ENCODER GUARD ~ W.S.	1
FL	11729-02-01	1/4" WALL BUSHING 1 3/4 ID X 2 1/4 OD X 1 1/2 LG.	3
FM	11729-02-01	BRONZE THRUST WASHER, 1 3/4 ID X 2 5/8 OD X 1/8 THICK	2
FN	11729-02-08	BEARING BLOCK ~ STEEL	3
FO	11729-02-01	KEYSTOCK 1/2 X 1/2 X 3-3/4 LG., R.O.E.	3
FP	11729-02-08	SPACER ~ STEEL	2
FQ	11729-02-01	ROLL PIN, 3/16 DIA X 3 LG.	1
FR1	11729-02-08	ROLL MOUNT ~ W.S.	1
FR2	11729-02-08	ROLL MOUNT ~ W.S.	2
FT	11729-02-01	TIMING BELT PULLEY FOR 1/2" WIDE BELT, 18 TOOTH	4
FU	11729-02-01	#10-24 X 3/4 LG. CUP POINT SETSCREW	8
FV	11729-02-01	3/8" PITCH TIMING BELT	2
FW1	11729-02-01	SHCS 3/8-16 X 1-1/2 LG. ~ STN STL	6
FW2	11729-02-01	3/8 LOCKWASHER - STN STL	6
FW3	11729-02-01	3/8 FLAT WASHER - STN STL	6
FX	11729-02-15	ENCODER MTG PLATE ~ W.S.	1
FZ	11729-02-15	PULLEY GUARD ~ W.S.	1

GC1	11729-02-01	SHCS 3/8-16 X 1-1/4 LG. ~ GR8	2
GC2	11729-02-01	3/8 LOCKWASHER	2
GC3	11729-02-01	3/8 FLAT WASHER	2
GD1	11729-02-01	SHCS 5/16-18 X 3/4 LG. ~ GR8	4
GD2	11729-02-01	5/16 LOCKWASHER	4
GD3	11729-02-01	5/16 FLAT WASHER	4
GE1	11729-02-01	HHCS 3/8-16 X 9" LG. ~ GR5	4
GE2	11729-02-01	3/8 LOCKWASHER	4
GE3	11729-02-01	3/8-16 HEX NUT	4
GF	11729-02-01	1/4" EPDM RUBBER SHEET (CUT TO SUIT)	1
GG	11729-02-29	BRASS BARBED HOSE FITTING, 3/4" HOSE ID, 1/2 NPTF MALE END	2
GH	11729-02-29	BRASS BARBED HOSE FITTING, 1/4" HOSE ID, 3/8 NPTF MALE END	1
GJ	11729-02-29	1/2" GALVANIZED PIPE FITTING, 90° ELBOW	1
GK	11729-02-01	GARDEN HOSE ADAPTER, 3/4" MALE	1
GL	11729-02-01	3/4" GALVANIZED PIPE FITTING, 90° ELBOW	1
GM	11729-02-12	BUMPER SHIM ~ STEEL	1
GN	11729-02-29	SUPPORT BLOCK ~ ALUM	1
GO	11729-02-29	1/2 NPT BRASS HEX NIPPLE	2
GP	11729-02-29	1/2 NPT X 3/8 NPT BRASS REDUCING BUSHING	1
GQ	11729-02-29	3/8 NPT MALE TO FEMALE 90° ELBOW	1
GR	11729-02-29	1/2 NPT LOW PROFILE T-STRAINER, CLEAR BOWL, 50 X 50 MESH	1
GS	11729-02-29	DIAPHRAGM PILOT-OPERATED SOLENOID VALVE, 1/2 NPT, 24 VDC	1
GT1	11729-02-29	SHCS 1/4-20 X 5.0 LG. ~ GR8	2
GT2	11729-02-29	1/4 HI-COLLAR LOCKWASHER	2
GT3	11729-02-29	1/4-20 HEX NUT	2
GU1	11729-02-01	SHCS 5/16-18 X 5/8 LG. ~ GR8	4
GU2	11729-02-01	5/16 LOCKWASHER	4
GV	11729-02-29	3/4 NPT MALE TO FEMALE 90° ELBOW ADAPTER, GALVANIZED	2
GW	11729-02-01	STD-WALL GALVANIZED WELDED STEEL THREADED PIPE NIPPLE, 3/4" PIPE SIZE X 1-3/8" LENGTH, FULLY THREADED	1
GX	11729-02-01	ZINC-PLATED STEEL U-BOLT, 1/4-20 X 1-3/8" THREAD LENGTH, FOR 1-3/4" O.D. PIPE	1
GY	11729-02-29	BRASS BARBED HOSE FITTING, 3/4" HOSE ID, 3/4 NPTF MALE END	2
GZ	11729-02-29	HOSE, 3/4 I.D., EPDM RUBBER, MAX PRESSURE: 200 PSI @ 72 DEGREES F, BLACK, 6FT	1
HC	11729-02-22	COVER PLATE ~ 304 STN. STL.	1
JB1	11729-02-01	LHSCS 1/4-20 X 1/2 LG. ~ GR8	4
JB2	11729-02-01	1/4 LOCKWASHER	4
JC1	11729-02-01	SHCS 1/4-20 X 2-3/4 LG. ~ GR8	5
JC2	11729-02-01	1/4 LOCKWASHER	5
JC3	11729-02-01	1/4-20 HEX NUT	5
JD1	11729-02-01	SHCS 1/4-20 X 3/4 LG. ~ GR8	1
JD2	11729-02-01	1/4 LOCKWASHER	1
JD3	11729-02-01	1/4-20 HEX NUT	1

JE	11729-02-01	STEEL ONE-HOLE CLAMP FOR 13/16" O.D., 1/2 PIPE/RIGID CONDUIT	1
JG1	11729-02-01	BHSCS 1/4-20 X 1/2 LG. ~ STAINLESS STEEL	4
JG2	11729-02-01	1/4 LOCKWASHER ~ STN. STL.	4
JK1	11729-02-01	SHCS 3/8-16 X 2-1/4 LG. ~ STN. STL.	6
JK2	11729-02-01	3/8 LOCKWASHER ~ STN. STL.	6
JL1	11729-02-01	BHSCS 1/4-20 X 3" LG. ~ STN. STL.	6
JL2	11729-02-01	1/4 LOCKWASHER ~ STN. STL.	4
JL3	11729-02-01	1/4 USS (OVERSIZED) LOCKWASHER ~ STN. STL.	4
JL4	11729-02-01	1/4-20 HEX NUT ~ STN. STL.	4
JM1	11729-02-01	SHCS 3/8-16 X 2-1/4 LG. ~ STN. STL.	2
JM2	11729-02-01	3/8 LOCKWASHER ~ STN. STL.	2
JN1	11729-02-01	BHSCS #10-32 X 3/8 LG. ~ STN. STL.	3
JN2	11729-02-01	#10 LOCKWASHER ~ STN. STL.	3
JN3	11729-02-01	#10 FLATWASHER ~ STN. STL.	3
JN4	11729-02-01	#10-32 HEX NUT ~ STN. STL.	3
JQ1	11729-02-01	SHCS 5/16-18 X 1-1/4 LG. ~ GR8	4
JQ2	11729-02-01	5/16 LOCKWASHER	4
JQ3	11729-02-01	5/16 FLAT WASHER	4
JR1	11729-02-01	SHCS 1/4-20 X 1/2 LG. ~ GR8	2
JR2	11729-02-01	1/4 LOCKWASHER	2
ZA	11729-02-01	HINGED ENCLOSURE, 16" X 10" X 6"	1
ZB	11729-02-01	ENCLOSURE PANEL	1
AR	51000-14-01	ZINC PLATED, CHROMATED STEEL, 35MM X 7.5MM DIN RAIL, 1 METER	15"
AV	51000-14-01	SPRING CLAMP TERMINAL BLOCK, ONE-CIRCUIT FEED-THROUGH BLOCK, 2.5MM ² (#30 AWG - #12 AWG), STANDARD FEED-THROUGH	54
BA	51000-14-01	END ANCHOR, USED W/ STANDARD 35mm DIN RAIL	2
AW	51000-14-01	END BARRIER, GRAY (STANDARD)	1
BB	51000-14-01	PLUG-IN CENTER JUMPER, 5mm CENTER TO CENTER, 10 POLE, YELLOW	4 POLES
ZH1	11729-02-01	24 POLE MALE INSERT, SCREW TERMINALS, 16 AMPS, 600 VAC/VDC	4
ZH2	11729-02-01	24 POLE FEMALE INSERT, SCREW TERMINALS, 16 AMPS, 600 VAC/VDC	4
ZH3	11729-02-01	SIDE ENTRY HOOD, DOUBLE LEVER, Pg21 THREADED OPENING	2
ZH4	11729-02-01	BULKHEAD BASE, DOUBLE LEVER	2
ZH5	11729-02-01	Pg21 TO 3/4" NPT THREAD ADAPTER	4
ZH6	11729-02-01	TOP ENTRY HOOD, SINGLE LEVER, Pg21	2
ZI	11729-02-01	ALLIED WIRE FLEXIBLE PUR CONTROL CABLE, 18 AWG, 25 CONDUCTOR	50'
ZJ1	11729-02-01	THOMAS & BETTS LIQUID-TIGHT 3/4"	50'
ZJ2	11729-02-01	LIQUID-TIGHT CONNECTOR 3/4, STRAIGHT	4
ZK	11729-02-01	CORD GRIP, 2 HOLE, .20-.24 WIRE DIA., 1/2" NPT	6
ZL	11729-02-01	CORD GRIP, 1 HOLE, .20-.35 WIRE DIA., 1/2" NPT	3
ZM	11729-02-01	20-3 MULTI-CONDUCTOR CABLE, PVC INSULATED	150'
ZN	11729-02-01	1/4" DIA. HOSE	25'
ZO	11729-02-31	JB MOUNTING PLATE ~ CRS	2
ZP1	11729-02-01	10 POLE MALE INSERT	1

ZP2	11729-02-01	10 POLE FEMALE INSERT, SCREW TERMINALS, 16 AMPS, 600 VAC/VDC	1
ZP3	11729-02-01	BULKHEAD BASE, DOUBLE LEVER	2
ZQ1	11729-02-01	16 POLE MALE INSERT	1
ZQ2	11729-02-01	16 POLE FEMALE INSERT	1
ZQ3	11729-02-01	BULKHEAD BASE, DOUBLE LEVER	2
ZR	11729-02-31	HEAD BRACKET MOUTING PLATE ~ CRS	1
ZS1	11729-02-01	18-8 STAINLESS STEEL BUTTON HEAD HEX DRIVE SCREW, 8-32 THREAD SIZE, 1/2" LONG	24
ZS2	11729-02-01	18-8 STAINLESS STEEL SPLIT WASHER FOR NUMBER 8 SCREW SIZE, 0.147" I.D., 0.293" O.D.	24
ZS3	11729-02-01	18-8 STAINLESS STEEL HEX NUT, 8-32 THREAD SIZE	24
ZT	11729-02-01	NYLON LIQUID-TIGHT CORD GRIP	1
AU	51000-14-01	SNAP-IN INDIVIDUAL MARKER CARD	156
BQ	51000-14-01	SPRING CLAMP TERMINAL BLOCK	10
AY	51000-14-01	TERMINAL BLOCK, END BARRIER	2
ZV3	11729-02-01	PLUG-IN CENTER JUMPER, YELLOW	4
AZ	51000-14-01	SPRING CLAMP TERMINAL BLOCK, GREEN / YELLOW STRIPE	4
ZX3	11729-02-01	CRIMP 10AMP FEMALE 100/PK 18AWG SIL-PLATED FOR 10 AMP FEMALE INSERTS	1
ZX4	11729-02-01	CRIMP 10AMP MALE 100/PK 18AWG SIL- PLATED FOR 10 AMP MALE INSERTS	1
ZX8	11729-02-01	MULTICONDUCTOR, 8 CON., 22 AWG (7/30) UNSHIELDED	24'
ZX10	11729-02-01	INSERT, CRIMP TERMINATION, FEMALE, CONTACTS: 7	2
ZX11	11729-02-01	CABLE GLAND, M20, CLAMPING RANGE: 5-9MM	2
ZX12	11729-02-01	BASE 3A BULKHEAD, SINGLE LEVER, ZINC DIE-CAST	1
ZX13	11729-02-01	INSERT, CRIMP TERMINATION, MALE, CONTACTS: 7	1
ZX14	11729-02-01	HOOD, SIZE: 3A, SINGLE LOCKING LEVER, TOP ENTRY, 1x20	2
ZY1	11729-02-01	SHCS #5-40 X 1/2 LG. ~ 18-8 STAINLESS STEEL	2
ZY2	11729-02-01	#5 LOCK WASHER ~ 18-8 STAINLESS STEEL	2
ZY3	11729-02-01	#5-40 HEX NUT ~ 18-8 STAINLESS STEEL	2
ZZ1	11729-02-01	BHSCS #10-24 X 3/8 LG. ~ 18-8 STAINLESS STEEL	3
ZZ2	11729-02-01	#10 LOCK WASHER ~ 18-8 STAINLESS STEEL	3
ZZ3	11729-02-01	#10 FLAT WASHER ~ 18-8 STAINLESS STEEL	3

2.15 ASSY, UPENDER, STANDARD

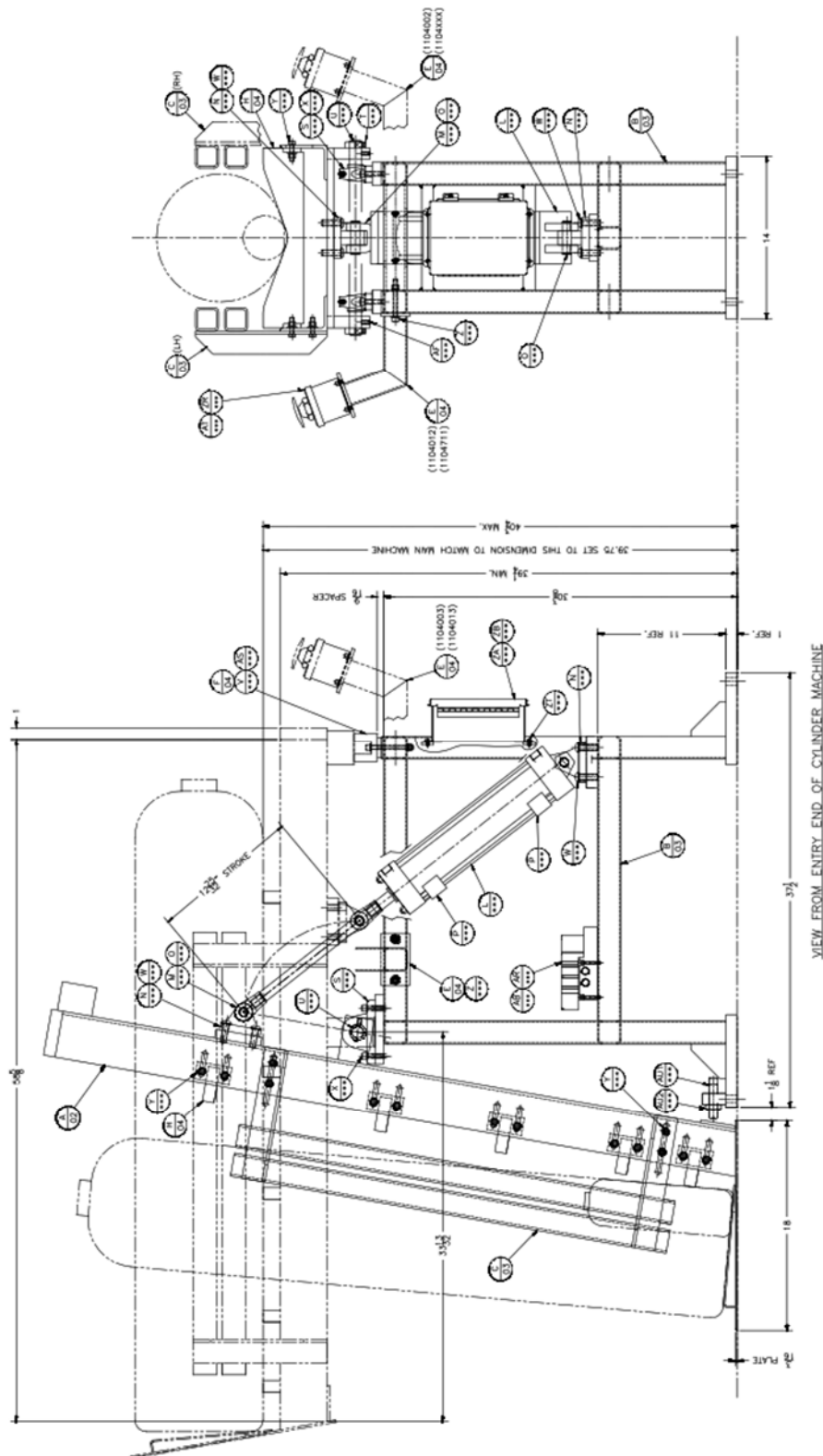


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ITEM NO.	PART NO.	DESCRIPTION	QTY
A	11729-05-02	UP-ENDER TILT FRAME - WS	1
B	11729-05-03	SUPPORT FRAME - WS	1
C	11729-05-03	SIDE GUIDE - WS	1
E	11729-05-04	BOX MOUNT - WS	1
F	11729-05-04	SPACER - CRS	1
G	11729-05-04	SPACER - CRS	1
H	11729-05-04	SUPPORT BAR - WS	5
L	11729-05-01	NFPA ALUMINUM BODY AIR CYLINDER; 4" BORE X 13" STROKE; 1" ROD	1
M	11729-05-01	ROD CLEVIS FOR 3/4-16 THREADS	1
N	11729-05-01	EYE FOR BRACKET 3/4" DIAMETER PIN	2
O	11729-05-01	PIVOT PIN 3/4" DIAMETER	2
P	11729-05-01	REED SWITCH, TIE ROD MOUNT, QUICK DISCONNECT, LED	2
S	11729-05-01	1" BALL BEARING PILLOW BLOCK	2
T	11729-05-01	1" SHAFT COLLAR	2
U	11729-05-01	1" DIA CRS X 16 3/4" LG	1
V	11729-05-01	SOLID RUBBER BUMPER	1
W	11729-05-01	BHCS 1/2-13 X 1 5/8 LG - GR 8	8
X1	11729-05-01	SHCS 3/8-16 X 1 1/2 LG - GR 8	4
X2	11729-05-01	LOCKWASHER 3/8	4
Y1	11729-05-01	LOW HD SOC CAPSCREW 3/8-16 X 1 1/2 LG - GR 8	28
Y2	11729-05-01	HEX NUT 3/8-16	28
Y3	11729-05-01	LOCKWASHER 3/8	28
Y4	11729-05-01	FLAT WASHER 3/8	28
Z1	11729-05-01	SHCS 3/8-16 X 4 LG - GR 8	2
Z2	11729-05-01	HEX NUT 3/8-16	2
Z3	11729-05-01	LOCKWASHER 3/8	2
Z4	11729-05-01	FLAT WASHER 3/8	2
AA	11729-05-01	1/2" TUBE X 1/2" NPT RIGHT ANGLE FLOW CONTROL	2
AB	11729-05-01	DOUBLE SOLENOID AIR VALVE	1
AF	11729-05-01	CUP POINT SETSCREW 5/16-18 X 3/4 LG	2
AM	11729-05-01	1/2" TUBE TO 3/8"NPT STRAIGHT	3
AN	11729-05-01	3/8" NPT MUFFLER	2
AP	11729-05-01	1/8" NPT MUFFLER	1
AQ	11729-05-01	1/8 NPT SQ. HD. PLUG	1
AR1	11729-05-01	SHCS #10-24 X 1 1/2 LG - GR 8	6
AR2	11729-05-01	HI-COLLAR LOCKWASHER #10	6
AS1	11729-05-01	SHCS 3/8-16 X 4 LG - GR 8	2
AS2	11729-05-01	HEX NUT 3/8-16	2
AS3	11729-05-01	LOCKWASHER 3/8	2
AS4	11729-05-01	FLAT WASHER 3/8	2
AT1	11729-05-01	BHCS #10-24 X 3/8 LG - GR 8	4
AT2	11729-05-01	LOCKWASHER #10	4
AU1	11729-05-01	SQ HD SETSCREW 3/4-10 X 3" LG.	1
AU2	11729-05-01	3/4-10 HEX JAM NUT	1
AZ	11729-05-01	POLYURETHANE TUBING, 1/2" O.D. X 50'	33'
ZA	11729-05-01	HINGED ENCLOSURE, 8" X 6" X 3.5"	1
ZB	11729-05-01	ENCLOSURE PANEL	1

AV	51000-14-01	SPRING CLAMP TERMINAL BLOCK	21
BA	51000-14-01	END ANCHOR, USED W/ STANDARD 35mm DIN RAIL	2
AW	51000-14-01	END BARRIER, GRAY	1
BB	51000-14-01	PLUG-IN CENTER JUMPER, 10 POLE, YELLOW	8
ZG	11729-05-01	FLEXIBLE CONDUIT FITTING, 1/2" NPT 90 DEGREE	2
ZH	11729-05-01	FLEXIBLE CONDUIT 1/2" DIA	5'
ZI1	11729-05-01	16 POLE MALE INSERT, SCREW TERMINALS	1
ZI3	11729-05-01	SIDE ENTRY HOOD, DOUBLE LEVER	1
ZI5	11729-05-01	Pg21 TO 3/4" NPT THREAD ADAPTER	1
ZJ	11729-05-01	FLEXIBLE CONDUIT FITTING, 3/4" NPT STRAIGHT	2
ZK	11729-05-01	FLEXIBLE CONDUIT 3/4" DIA	20'
ZL	11729-05-01	FLEXIBLE PUR CONTROL CABLE, 18 AWG	23'
ZM	11729-05-01	CORD GRIP, 2 HOLE, .20-.24 WIRE DIA., 1/2" NPT	1
ZN	11729-05-01	TWO-POSITION PUSH-PULL BUTTON, RED MUSHROOM HEAD, 1 NC CONTACT	1
ZN1	11729-05-01	CONTACT BLOCK, 1 NC CONTACT	1
ZO	11729-05-01	ROUND YELLOW ESTOP LEGEND PLATE	1
ZP	11729-05-01	24V GREEN ILLUMINATED PUSHBUTTON, 1 NO CONTACT	1
ZQ	11729-05-01	"UP" LEGEND PLATE, BLACK BACKGROUND	1
ZR	11729-05-01	PUSH BUTTON STEEL ENCLOSURE	1
ZS	11729-05-01	20-3 MULTI-CONDUCTOR CABLE	15'
ZT1	11729-05-01	BHCS 1/4-20 X 3/8 LG -GR 8	4
ZT2	11729-05-01	LOCKWASHER 1/4	4
ZW	11729-05-01	CORD GRIP, 1 HOLE, .20-.35 WIRE DIA., 1/2" NPT	2
AR	51000-14-01	ZINC PLATED, CHROMATED STEEL, 35MM X 7.5MM DIN RAIL	7"
AU	51000-14-01	SNAP-IN INDIVIDUAL MARKER CARD	46
AZ	51000-14-01	SPRING CLAMP TERMINAL BLOCK, GREEN / YELLOW STRIPE	2
		"FOR UCTU-1104002,1104012 ONLY"	
ZZ	11729-05-01	WASHDOWN HOW PLUG, 30MM BUTTON HOLE	1
		"FOR UCTU-1104003 & UCTU-1104013 ONLY"	
ZU	11729-05-01	24V GREEN ILLUMINATED PUSHBUTTON, 1 NO CONTACT	1
ZV	11729-05-01	"TRANSFER" LEGEND PLATE, BLACK BACKGROUND	1

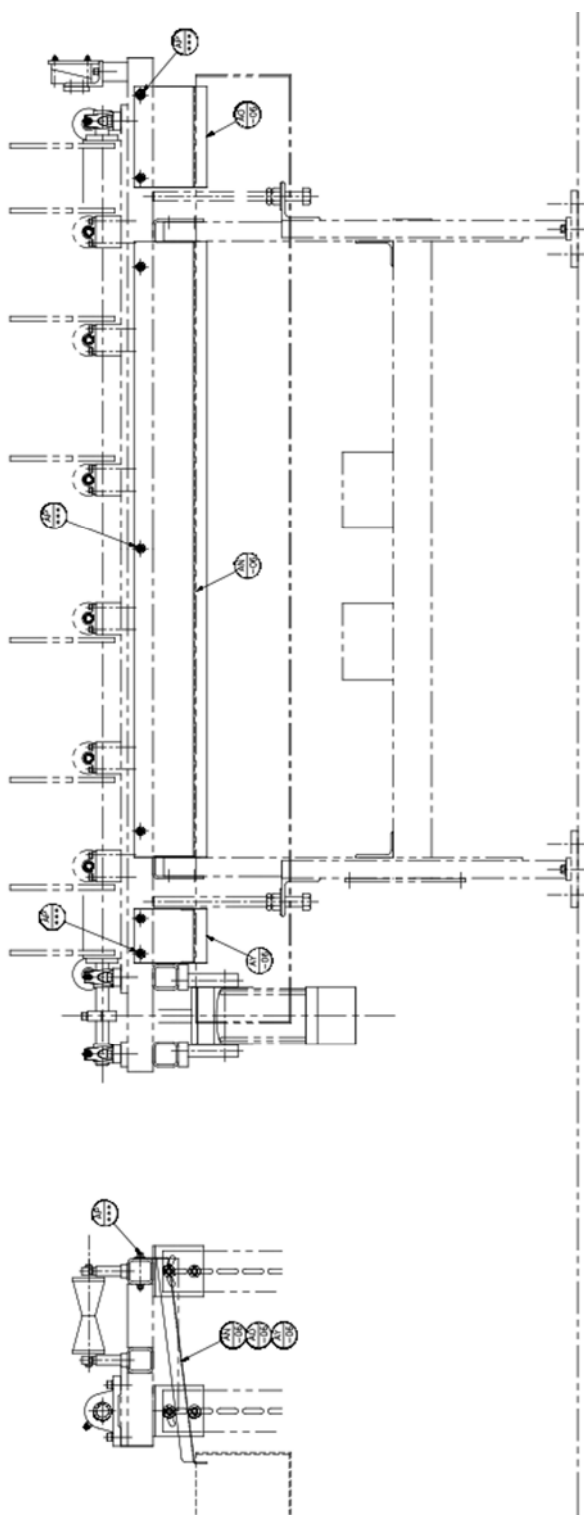
2.16 ASSY, UPENDER, PASS THROUGH

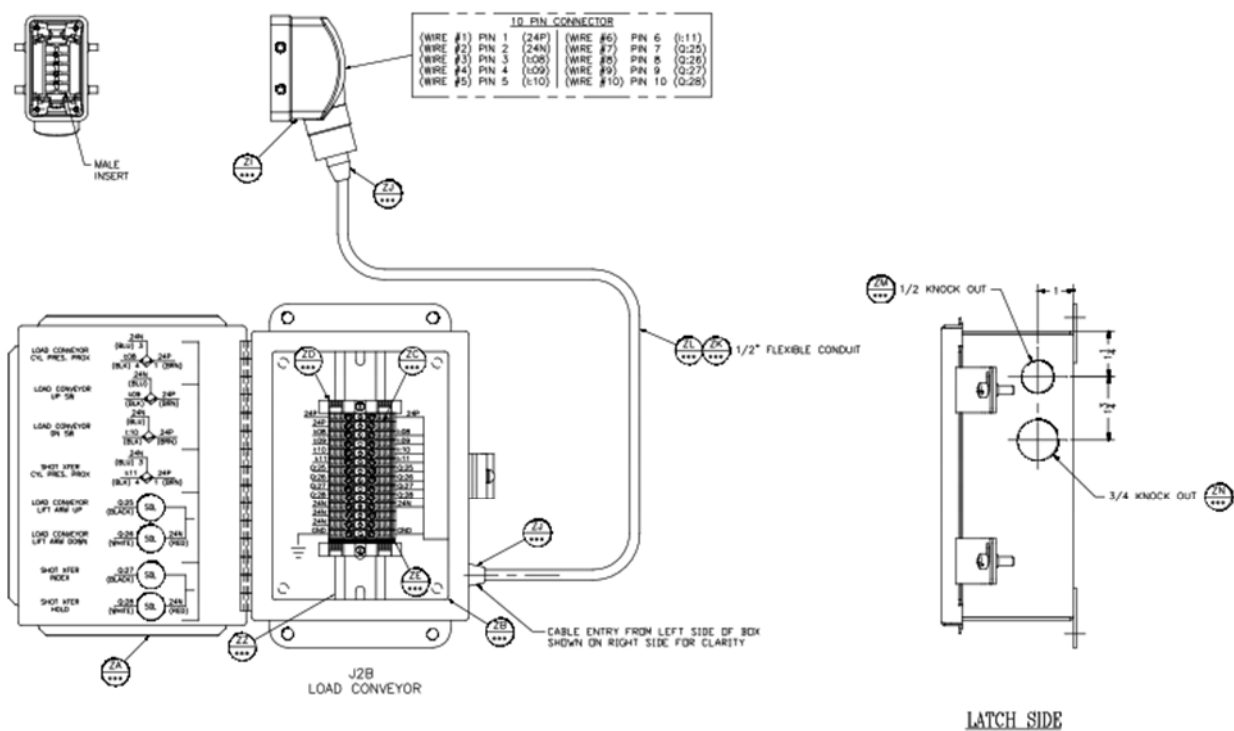


ITEM NO.	PART NO.	DESCRIPTION	QTY
A	11729-05-02	UP-ENDER TILT FRAME - WS	1
B	11729-05-03	SUPPORT FRAME - WS	1
C	11729-05-03	SIDE GUIDE - WS	1
E	11729-05-04	BOX MOUNT - WS	1
F	11729-05-04	SPACER - CRS	1
G	11729-05-04	SPACER - CRS	1
H	11729-05-04	SUPPORT BAR - WS	5
L	11729-05-01	ALUMINUM BODY AIR CYLINDER; 4" BORE X 13" STROKE; 1" ROD	1
M	11729-05-01	ROD CLEVIS FOR 3/4-16 THREADS	1
N	11729-05-01	EYE FOR BRACKET 3/4" DIAMETER PIN	2
O	11729-05-01	PIVOT PIN 3/4" DIAMETER	2
P	11729-05-01	REED SWITCH, TIE ROD MOUNT, QUICK DISCONNECT, LED	2
S	11729-05-01	1" BALL BEARING PILLOW BLOCK	2
T	11729-05-01	1" SHAFT COLLAR	2
U	11729-05-01	1" DIA CRS X 16 3/4" LG	1
V	11729-05-01	SOLID RUBBER BUMPER	1
W	11729-05-01	BHCS 1/2-13 X 1 5/8 LG - GR 8	8
X1	11729-05-01	SHCS 3/8-16 X 1 1/2 LG - GR 8	4
X2	11729-05-01	LOCKWASHER 3/8	4
Y1	11729-05-01	LOW HD SOC CAPSCREW 3/8-16 X 1 1/2 LG - GR 8	28
Y2	11729-05-01	HEX NUT 3/8-16	28
Y3	11729-05-01	LOCKWASHER 3/8	28
Y4	11729-05-01	FLAT WASHER 3/8	28
Z1	11729-05-01	SHCS 3/8-16 X 4 LG - GR 8	2
Z2	11729-05-01	HEX NUT 3/8-16	2
Z3	11729-05-01	LOCKWASHER 3/8	2
Z4	11729-05-01	FLAT WASHER 3/8	2
AA	11729-05-01	FLOW CONTROL, 1/2" TUBE X 1/2" NPT RIGHT ANGLE FLOW CONTROL	2
AB	11729-05-01	DOUBLE SOLENOID AIR VALVE	1
AF	11729-05-01	CUP POINT SETSCREW 5/16-18 X 3/4 LG	2
AM	11729-05-01	1/2" TUBE TO 3/8"NPT STRAIGHT	3
AN	11729-05-01	3/8" NPT MUFFLER	2
AP	11729-05-01	1/8" NPT MUFFLER	1
AQ	11729-05-01	1/8 NPT SQ. HD. PLUG	1
AR1	11729-05-01	SHCS #10-24 X 1 1/2 LG - GR 8	6
AR2	11729-05-01	HI-COLLAR LOCKWASHER #10	6
AS1	11729-05-01	SHCS 3/8-16 X 4 LG - GR 8	2
AS2	11729-05-01	HEX NUT 3/8-16	2
AS3	11729-05-01	LOCKWASHER 3/8	2
AS4	11729-05-01	FLAT WASHER 3/8	2
AT1	11729-05-01	BHCS #10-24 X 3/8 LG - GR 8	4
AT2	11729-05-01	LOCKWASHER #10	4
AU1	11729-05-01	SQ HD SETSCREW 3/4-10 X 3" LG.	1
AU2	11729-05-01	3/4-10 HEX JAM NUT	1
AZ	11729-05-01	POLYURETHANE TUBING, 1/2" O.D. X 50'	33'

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ZA	11729-05-01	HINGED ENCLOSURE, 8" X 6" X 3.5"	1
ZB	11729-05-01	ENCLOSURE PANEL	1
AV	51000-14-01	SPRING CLAMP TERMINAL BLOCK, GRAY	21
BA	51000-14-01	END ANCHOR, USED W/ STANDARD 35mm DIN RAIL	2
AW	51000-14-01	END BARRIER, GRAY	1
BB	51000-14-01	PLUG-IN CENTER JUMPER, YELLOW	8
ZG	11729-05-01	FLEXIBLE CONDUIT FITTING, 1/2" NPT 90 DEGREE	2
ZH	11729-05-01	FLEXIBLE CONDUIT 1/2" DIA	5'
ZI1	11729-05-01	16 POLE MALE INSERT, SCREW TERMINALS	1
ZI3	11729-05-01	SIDE ENTRY HOOD, DOUBLE LEVER,	1
ZI5	11729-05-01	Pg21 TO 3/4" NPT THREAD ADAPTER	1
ZJ	11729-05-01	FLEXIBLE CONDUIT FITTING, 3/4" NPT STRAIGHT	2
ZK	11729-05-01	FLEXIBLE CONDUIT 3/4" DIA	20'
ZL	11729-05-01	FLEXIBLE PUR CONTROL CABLE, 18 AWG, 18 CONDUCTOR	23'
ZM	11729-05-01	CORD GRIP, 2 HOLE, .20-.24 WIRE DIA., 1/2" NPT	1
ZN	11729-05-01	TWO-POSITION PUSH-PULL BUTTON, RED MUSHROOM HEAD, 1 NC CONTACT	1
ZN1	11729-05-01	CONTACT BLOCK, 1 NC CONTACT	1
ZO	11729-05-01	ROUND YELLOW ESTOP LEGEND PLATE	1
ZP	11729-05-01	24V GREEN ILLUMINATED PUSHBUTTON, 1 NO CONTACT	1
ZQ	11729-05-01	"UP" LEGEND PLATE, BLACK BACKGROUND	1
ZR	11729-05-01	PUSH BUTTON STEEL ENCLOSURE, 3 HOLES	1
ZS	11729-05-01	20-3 MULTI-CONDUCTOR CABLE	15'
ZT1	11729-05-01	BHCS 1/4-20 X 3/8 LG -GR 8	4
ZT2	11729-05-01	LOCKWASHER 1/4	4
ZW	11729-05-01	CORD GRIP, 1 HOLE, .20-.35 WIRE DIA., 1/2" NPT	2
AR	51000-14-01	ZINC PLATED, CHROMATED STEEL, 35MM X 7.5MM DIN RAIL	7"
AU	51000-14-01	SNAP-IN INDIVIDUAL MARKER CARD	46
AZ	51000-14-01	SPRING CLAMP TERMINAL BLOCK, GREEN / YELLOW STRIPE	2
		"FOR UCTU-1104002,1104012 ONLY"	
ZZ	11729-05-01	WASHDOWN HOW PLUG, 30MM BUTTON HOLE	1
		"FOR UCTU-1104003 & UCTU-1104013 ONLY"	
ZU	11729-05-01	24V GREEN ILLUMINATED PUSHBUTTON, 1 NO CONTACT	1
ZV	11729-05-01	"TRANSFER" LEGEND PLATE, BLACK BACKGROUND	1

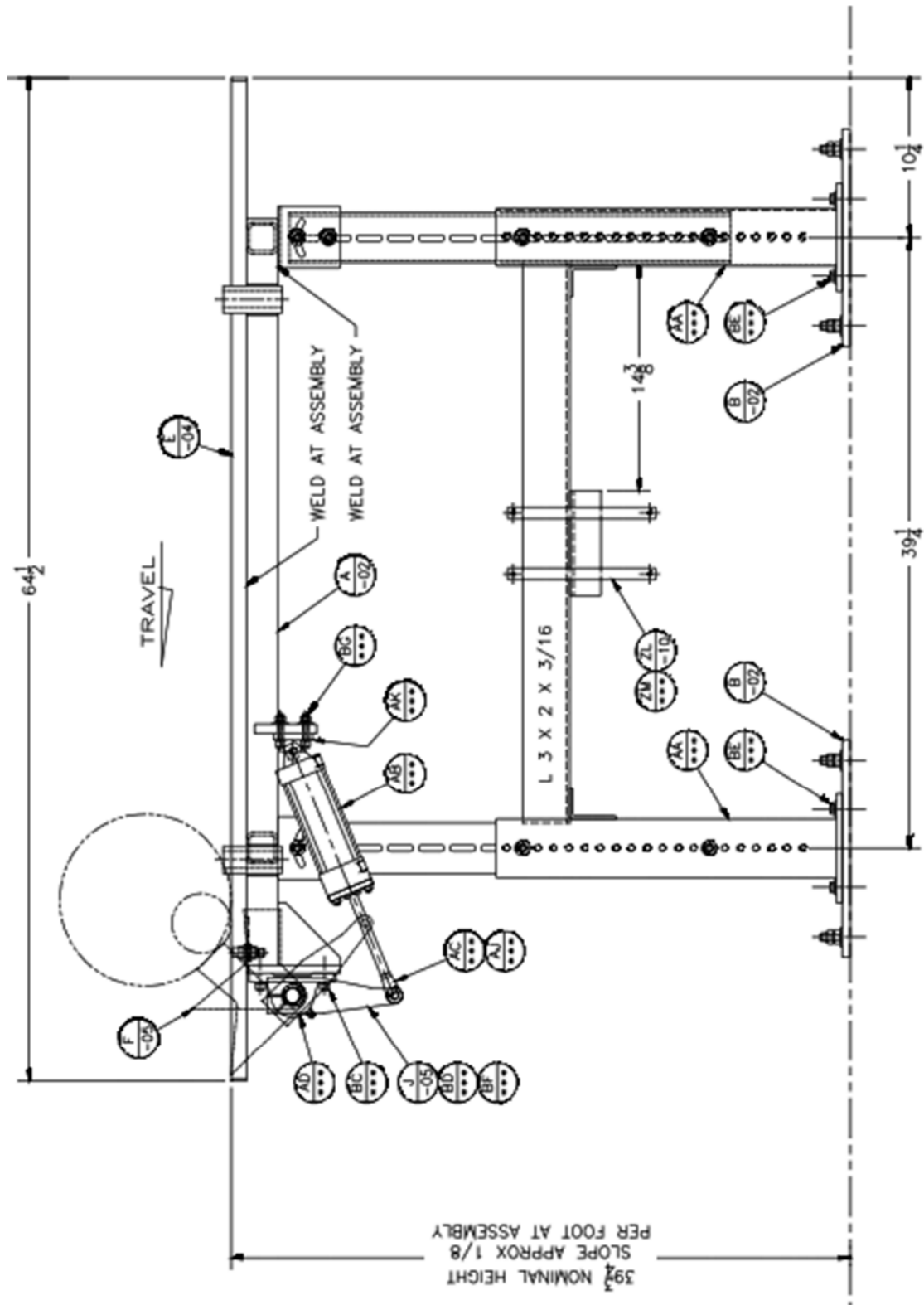


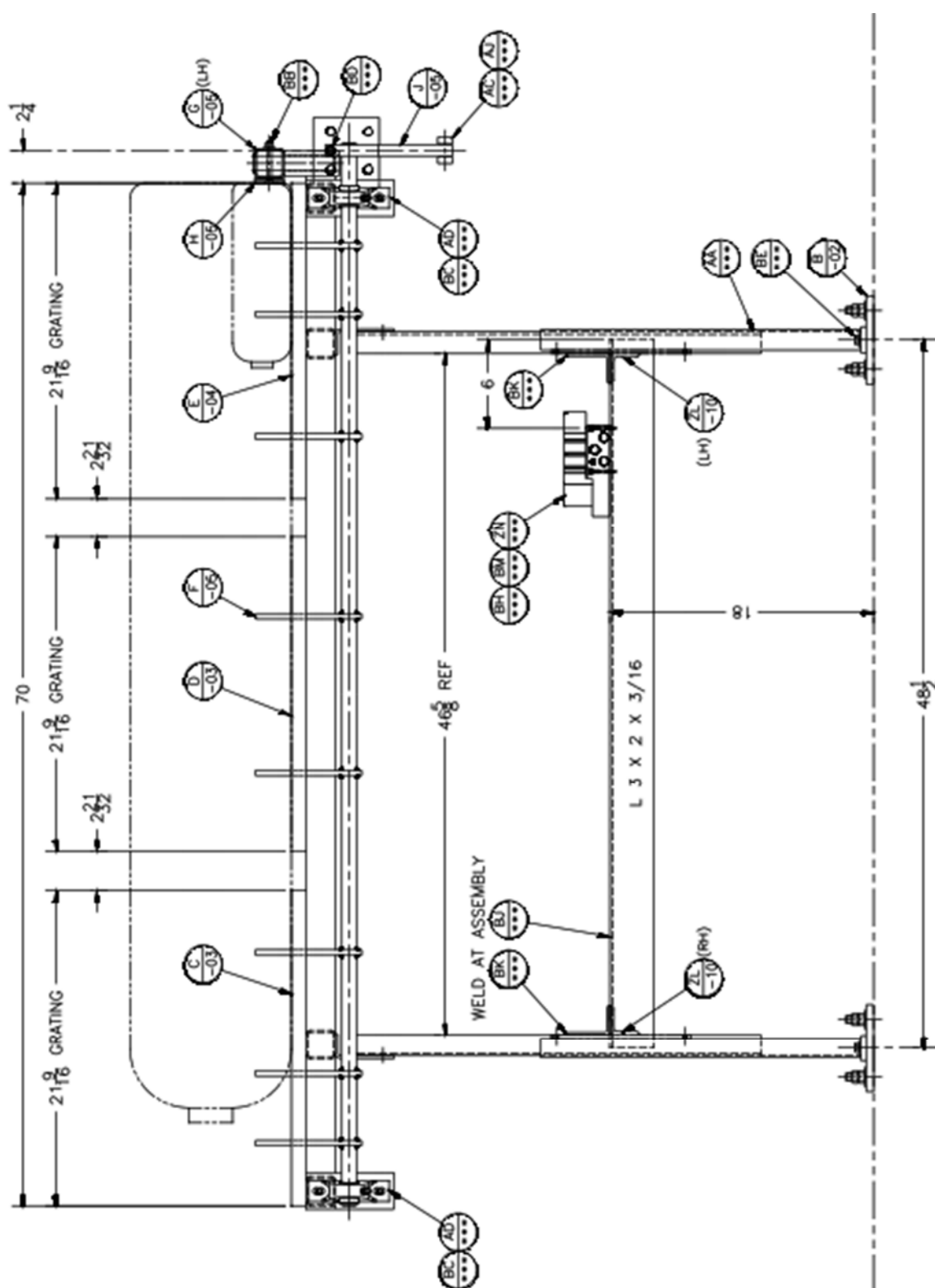


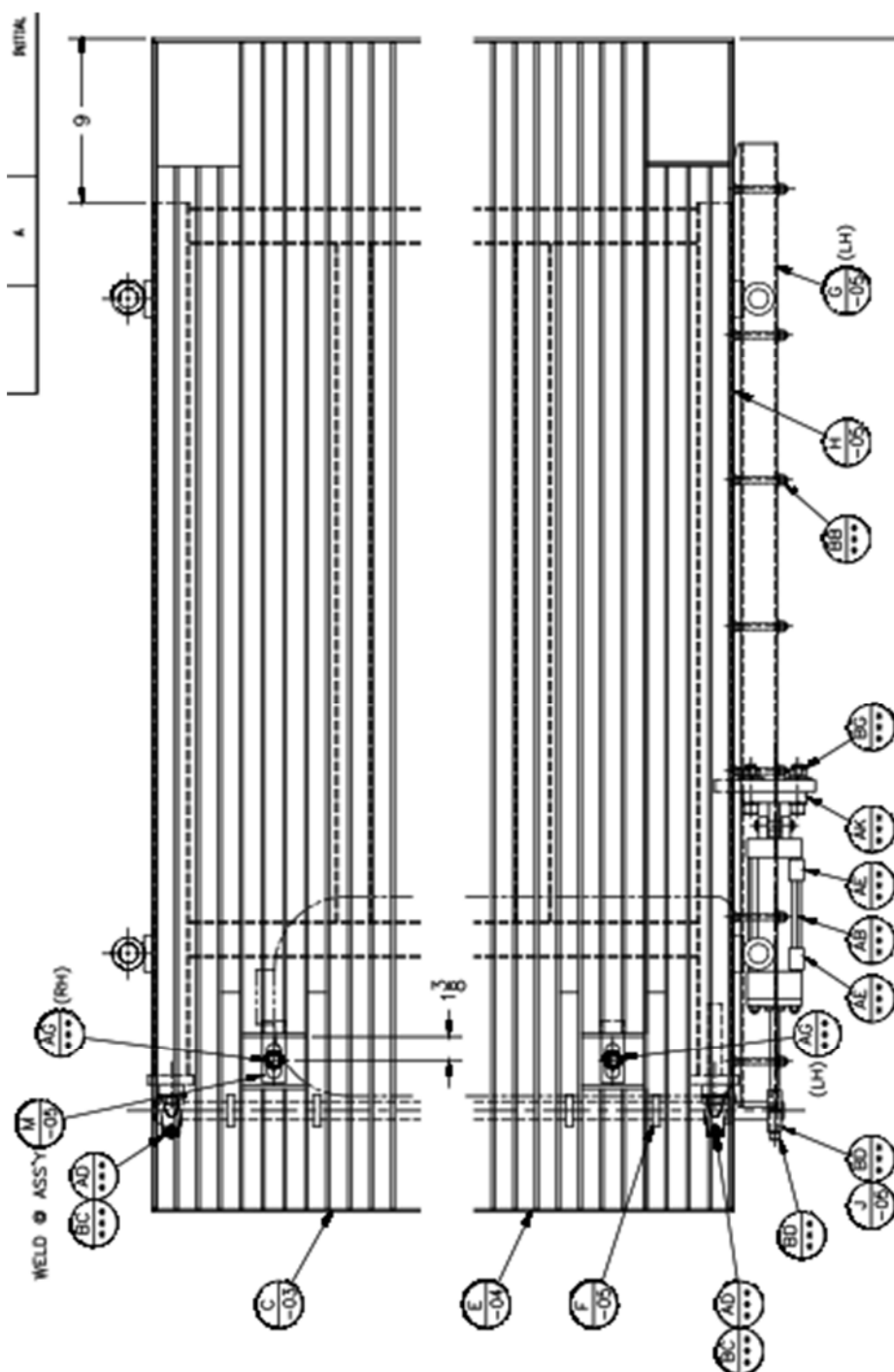
ITEM NO.	PART NO.	DESCRIPTION	QTY
A	11729-03-02	SUPPORT FRAME - WS	1
B	11729-03-03	LIFT FRAME - WS	1
C	11729-03-03	BASE PLATE - STEEL	2
D	11729-03-04	ROLL - STEEL	8
E	11729-03-04	ARM - CRS	1
F	11729-03-04	TRUNNION - CRS	2
G	11729-03-04	CLEVIS - CRS	1
H	11729-03-04	BRG RISER - CRS	16
J	11729-03-04	BRG SHIM - STEEL	3
K	11729-03-05	SWITCH BRACKET - WS	1
L	11729-03-05	END STOP	1
M	11729-03-01	ALUMINUM BODY AIR CYLINDER, 4" BORE X 9" STROKE	1
N	11729-03-01	1" BALL BEARING PILLOW BLOCK	3
O	11729-03-01	REED SWITCH, TIE ROD MOUNT, QUICK DISCONNECT, LED, W/ 10 METER CABLE	2
P	11729-03-01	JACK MOUNT ~ STL	4
R	11729-03-01	ADJUSTABLE HEIGHT CONVEYOR LEG ASSEMBLY WITH PIVOTING TOP PLATE	4
S	11729-03-01	BASE MOUNT PLAIN BEARING PILLOW BLOCK, 1/2" BORE	16
T	11729-03-01	BRZ BUSH 1" ID X 1 1/4" OD X 1" LG	2
U	11729-03-01	BRZ BUSH 1/2" ID X 5/8" OD X 1/2" LG	2
V	11729-03-01	BRZ BUSH 1/2" ID X 5/8" OD X 3/4" LG	1
W	11729-03-01	THRUST WASHER 1/2 ID X 1 OD X 3/32	32
X	11729-03-01	PIVOT PIN	1
Y	11729-03-01	KEY 1/4 X 1/4 X 1 1/2 LG	1
Z	11729-03-01	SHCS 3/8-16 X 1 1/2, FL WA, LW - GR 8	6
AA	11729-03-01	SHCS 3/8-16 X 4, HI-COLLAR - GR 8	4
AB	11729-03-01	SHCS 1/4-20 X 3, LW - GR 8	32
AC	11729-03-01	SHCS 5/16-18 X 1, LW - GR 8	2
AD	11729-03-01	SHCS 3/8-16 X 2 1/4, LW - GR 8	1
AE	11729-03-01	HX HD CAPSCREW 3/8-16 X 3/4, LW, FL WASHER - GR 8	8
AF	11729-03-01	FLAT HD CAPSCREW 5/16-18 X 5/8	4
AG	11729-03-01	L 3 X 2 X 3/16 X 52" LG	2
AH	11729-03-01	3-WIRE DC INDUCTIVE PROXIMITY SWITCH, 50mm, PNP,	2
AJ	11729-03-01	SHCS #10-24 X 3/4, HEX NUT, FLAT WASHER, LW - GR 8	4
AK	11729-03-01	1/2 NPT MALE TO 1/2 TUBE RIGHT ANGLE FLOW CONTROL	2
AL	11729-03-01	DOUBLE SOLENOID AIR VALVE	2
AM	11729-03-01	L 3 X 2 X 3/16 X 15 1/2" LG	2
AN	11729-03-06	TRAY - STN STL	1
AO	11729-03-06	TRAY - STN STL	1
AP	11729-03-01	SHCS 1/4-20 X 2 1/2, HX NUT, LW , (2) FL WASHERS- GR 8	7
AQ	11729-03-01	1/2-N3UT 1/2" TUBE TO 3/8"NPT STRAIGHT	6
AR	11729-03-01	3/8" NPT MUFFLER	4
AS	11729-03-01	1/8" NPT MUFFLER	2
AT	11729-03-01	1/8 NPT SQ. HD. PLUG	2
AU	11729-03-01	1/2" OD TUBE TEE	1

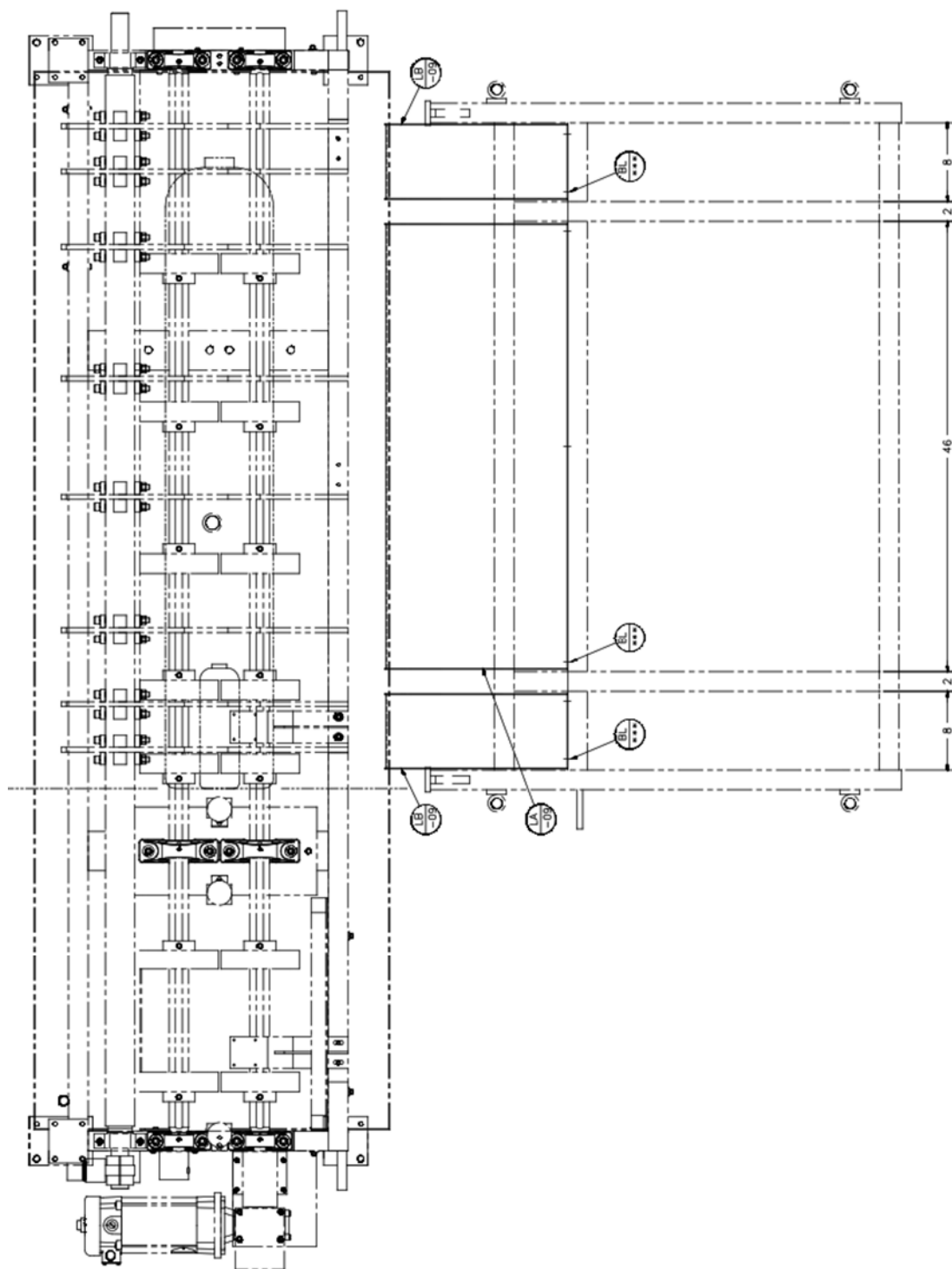
AV	11729-03-01	ALL THREAD 3/4-10 X 14" LG., W/ F.W., (2) HEX NUTS & HEX JAM NUT ~ GR8	4
AW	11729-03-01	3/8 NPT X 2" LG. NIPPLE	1
AX	11729-03-01	3/8 NPT 90 DEGREE ELBLOW - IRON	1
AY	11729-03-06	TRAY - STN STL	1
AZ	11729-03-01	POLYURETHANE TUBING, 1/2" O.D. X 50', BLACK	80'
BA	11729-03-10	JB MOUNTING PLATE ~ W.S.	1
ZA	11729-03-01	HINGED ENCLOSURE, 8" X 6" X 3.5"	1
ZB	11729-03-01	ENCLOSURE PANEL	1
AV	51000-14-01	SPRING CLAMP TERMINAL BLOCK, GRAY	13
BA	51000-14-01	END ANCHOR, USED W/ STANDARD 35mm DIN RAIL	2
AW	51000-14-01	END BARRIER, GRAY	1
BB	51000-14-01	PLUG-IN CENTER JUMPER, 5mm CENTER TO CENTER, 10 POLE, YELLOW	5
ZI1	11729-03-01	10 POLE MALE INSERT, SCREW TERMINALS	1
ZI3	11729-03-01	SIDE ENTRY HOOD, DOUBLE LEVER	1
ZI5	11729-03-01	Pg16 TO 1/2" NPT THREAD ADAPTER	1
ZJ	11729-03-01	FLEXIBLE CONDUIT FITTING, 1/2" NPT STRAIGHT	2
ZK	11729-03-01	FLEXIBLE CONDUIT 1/2" DIA.,	20'
ZL	11729-03-01	FLEXIBLE PUR CONTROL CABLE, 18 AWG, 12 CONDUCTOR	21.5'
ZM	11729-03-01	CORD GRIP, 2 HOLE, .20-.24 WIRE DIA., 1/2" NP	1
ZN	11729-03-01	CORD GRIP, 4 HOLE, .20-.24 WIRE DIA., 1/2" NPT	1
ZO	11729-03-01	20-3 MULTI-CONDUCTOR CABLE, PVC INSULATED	45'
ZW	11729-03-01	CORD GRIP, 1 HOLE, .2-.35 WIRE DIA., 1/2" NPT	4
AR	51000-14-01	ZINC PLATED, CHROMATED STEEL, 35MM X 7.5MM DIN RAIL	7"
AU	51000-14-01	SNAP-IN INDIVIDUAL MARKER CARD	28
AZ	51000-14-01	SPRING CLAMP TERMINAL BLOCK, GREEN / YELLOW STRIPE	1

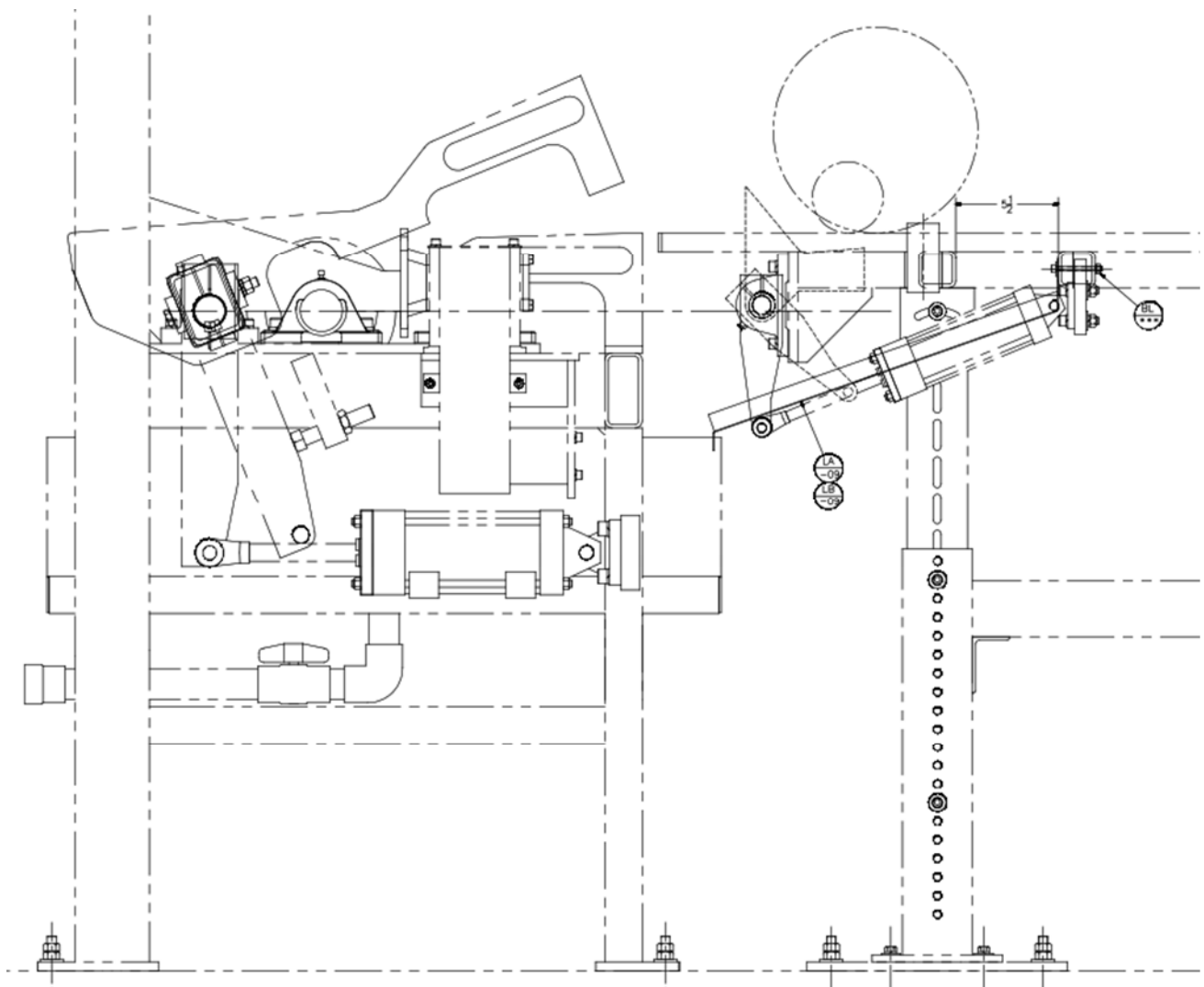
2.18 ASSY, INLET TABLE, 65IN LONG





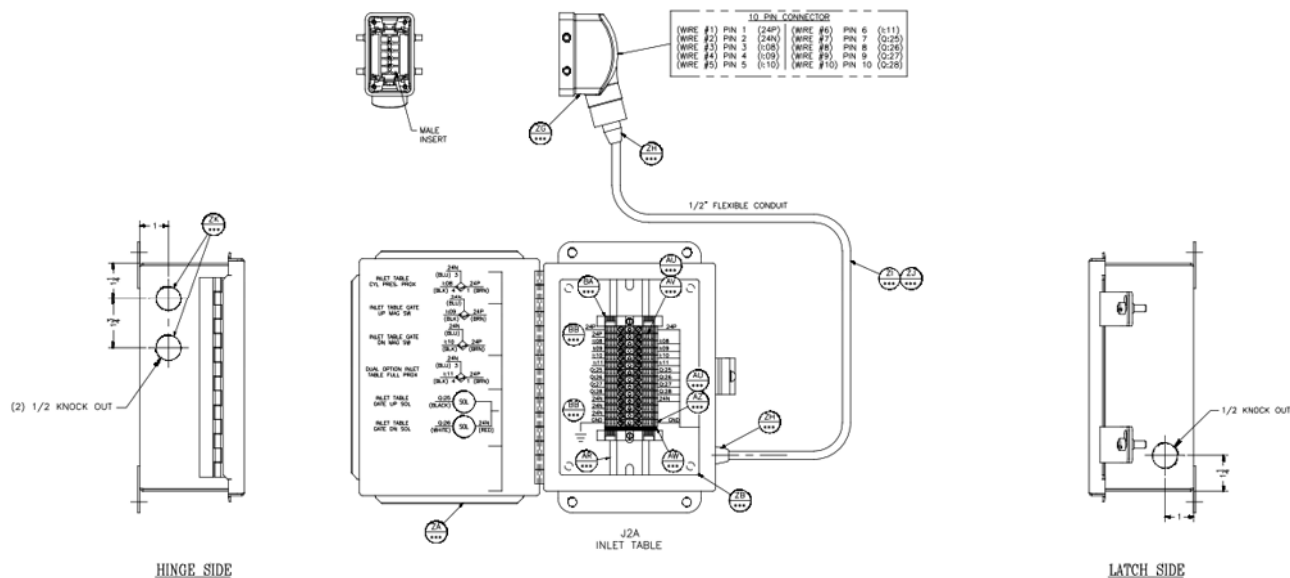






2.18.1 1104005 - ASSY, INLET TABLE, 65IN LG, SINGLE OPT, RH CONFIG

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



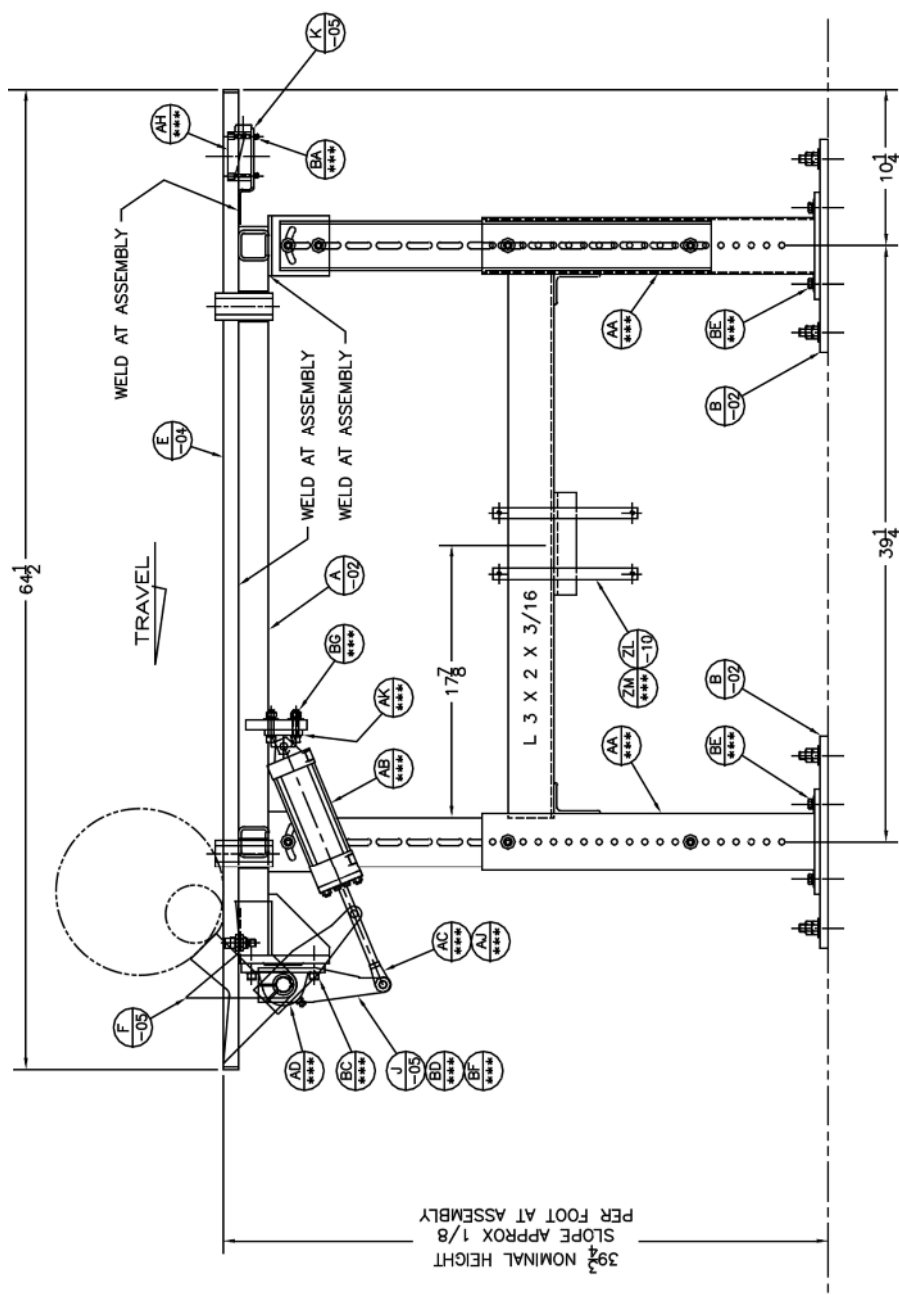
ITEM NO.	PART NO.	DESCRIPTION	QTY
A1	11729-04-02	SUPPORT FRAME - W.S.	1
B	11729-04-02	BASE PLATE - STEEL	4
C	11729-04-03	GRATING ~ W.S.	1
D	11729-04-03	GRATING ~ W.S.	1
E	11729-04-04	GRATING ~ W.S.	1
F	11729-04-05	STOP SHAFT ~ W.S.	1
G	11729-04-05	SIDE GUIDE ~ W.S.	1
H	11729-04-05	SIDE GUIDE ~ UMHV	1
J	11729-04-05	PIVOT ARM ~ STL	1
LA	11729-04-09	TRAY ~ WELDED STN. STL.	1
LB	11729-04-09	TRAY ~ WELDED STN. STL.	2
M	11729-04-05	BRACKET ~ 1/8" STL.	2
ZL	11729-04-10	JB MOUNTING PLATE ~ W.S.	1
AA	11729-04-01	ADJUSTABLE HEIGHT CONVEYOR LEG ASSEMBLY WITH PIVOTING TOP PLATE, 31 3/4" TO 46 3/4" HEIGHT ADJUSTMENT	4
AB	11729-04-01	ALUMINUM BODY AIR CYLINDER, 2 1/2" BORE X 5" STROKE, 5/8 ROD	1
AC	11729-04-01	ROD CLEVIS, 7/16-20 THREADS	1
AD	11729-04-01	1" BALL BEARING PILLOW BLOCK	2
AE	11729-04-01	REED SWITCH, TIE ROD MOUNT, QUICK DISCONNECT, LED	2
AG	11729-04-01	18mm BARREL TYPE PROXIMITY SWITCH, NON-SHIELDED, NORMALLY OPEN, PNP	1
AJ	11729-04-01	PIVOT PIN	1
AK	11729-04-01	EYE BRACKET	1
ZN	11729-04-01	CORD GRIP, 1 HOLE, .20-.35 WIRE DIA., 1/2" NPT	1

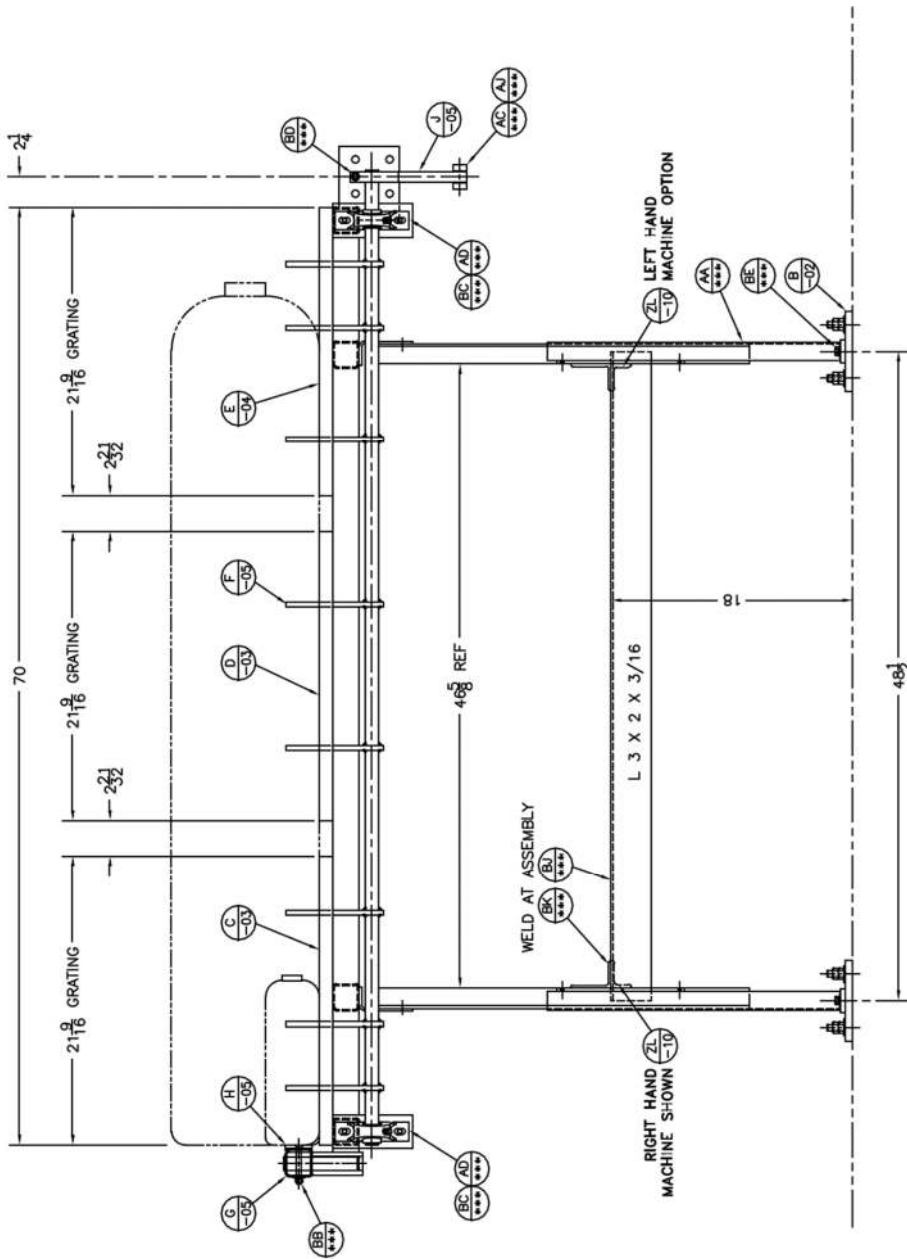
AL	11729-04-06	3/8 NPT MALE TO 3/8 TUBE RIGHT ANGLE FLOW CONTROL	2
AM	11729-04-06	3/8 OD TUBE X 3/8 NPT STRAIGHT FITTING	2
AN	11729-04-06	3/8 NPT MUFFLER	2
AP	11729-04-06	1/8 NPT MUFFLER	1
AQ	11729-04-06	1/8 NPT SQ. HD. PLUG	1
AR	11729-04-06	1/2 OD TUBE X 3/8 NPT STRAIGHT FITTING	1
AY	11729-04-06	POLYURETHANE TUBING, 3/8" O.D.	12'
AZ	11729-04-06	POLYURETHANE TUBING, 1/2" O.D.	25'
BH	11729-04-06	DOUBLE SOLENOID AIR VALVE	1
BB1	11729-04-01	FHSCS 5/16-18 X 3 LG - GR 8	7
BB2	11729-04-01	HEX NUT 5/16-18	7
BB3	11729-04-01	LOCKWASHER 5/16	7
BB4	11729-04-01	FLAT WASHER 5/16	7
BC1	11729-04-01	SHCS 3/8-16 X 1 1/2 LG - GR 8	4
BC2	11729-04-01	LOCKWASHER 3/8	4
BC3	11729-04-01	FLAT WASHER 3/8	4
BD1	11729-04-01	SHCS 3/8-16 X 2 1/4 LG - GR 8	1
BD2	11729-04-01	LOCKWASHER 3/8	1
BE1	11729-04-01	HHCS, 3/8-16 X 3/4 LG - GR 8	8
BE2	11729-04-01	LOCKWASHER 3/8	8
BE3	11729-04-01	FLAT WASHER 3/8	8
BF	11729-04-01	KEY 1/4 X 1/4 X 1 1/4	1
BG1	11729-04-01	SHCS 3/8-16 X 1-3/4 LG - GR 8	4
BG2	11729-04-01	HEX NUT 3/8-16	4
BG3	11729-04-01	LOCKWASHER 3/8	4
BG4	11729-04-01	FLAT WASHER 3/8	4
BJ	11729-04-01	ANGLE 3 X 2 X 3/16 X 48 1/2" LG	2
BK	11729-04-01	ANGLE 3 X 2 X 3/16 X 36" LG	2
BL1	11729-04-08	SHCS 1/4-20 X 2-1/2 LG - GR8	7
BL2	11729-04-08	HEX NUT 1/4-20	7
BL3	11729-04-08	LOCKWASHER 1/4	7
BL4	11729-04-08	FLAT WASHER 1/4	7
BM1	11729-04-01	SHCS #10-24 X 1 1/2 LG - GR 8	2
BM2	11729-04-01	HI-COLLAR LOCKWASHER #10	2
ZM1	11729-04-01	SHCS 1/4-20 X 3/8 LG -GR 8	4
ZM2	11729-04-01	LOCKWASHER 1/4	4
ZA	11729-04-11	HINGED ENCLOSURE, 8" X 6" X 3.5"	1
ZB	11729-04-11	ENCLOSURE PANEL	1
ZG1	11729-04-11	10 POLE MALE INSERT, SCREW TERMINALS, 16 AMPS	1
ZG3	11729-04-11	SIDE ENTRY HOOD, DOUBLE LEVER	1
ZG4	11729-04-11	Pg16 TO 1/2" NPT THREAD ADAPTER	1
ZH	11729-04-11	FLEXIBLE CONDUIT FITTING, 1/2" NPT STRAIGHT	2
ZI	11729-04-11	FLEXIBLE CONDUIT 1/2" DIA.	20'
ZJ	11729-04-11	FLEXIBLE PUR CONTROL CABLE, 18 AWG, 12 CONDUCTOR	22'
ZK	11729-04-11	CORD GRIP, 2 HOLE, .20-.24 WIRE DIA., 1/2" NPT	2
AR	51000-14-01	35MM X 7.5MM DIN RAIL	7
AU	51000-14-01	SNAP-IN INDIVIDUAL MARKER CARD, 5 MM X 10 MM	28
AV	51000-14-01	SPRING CLAMP TERMINAL BLOCK, GRAY	13

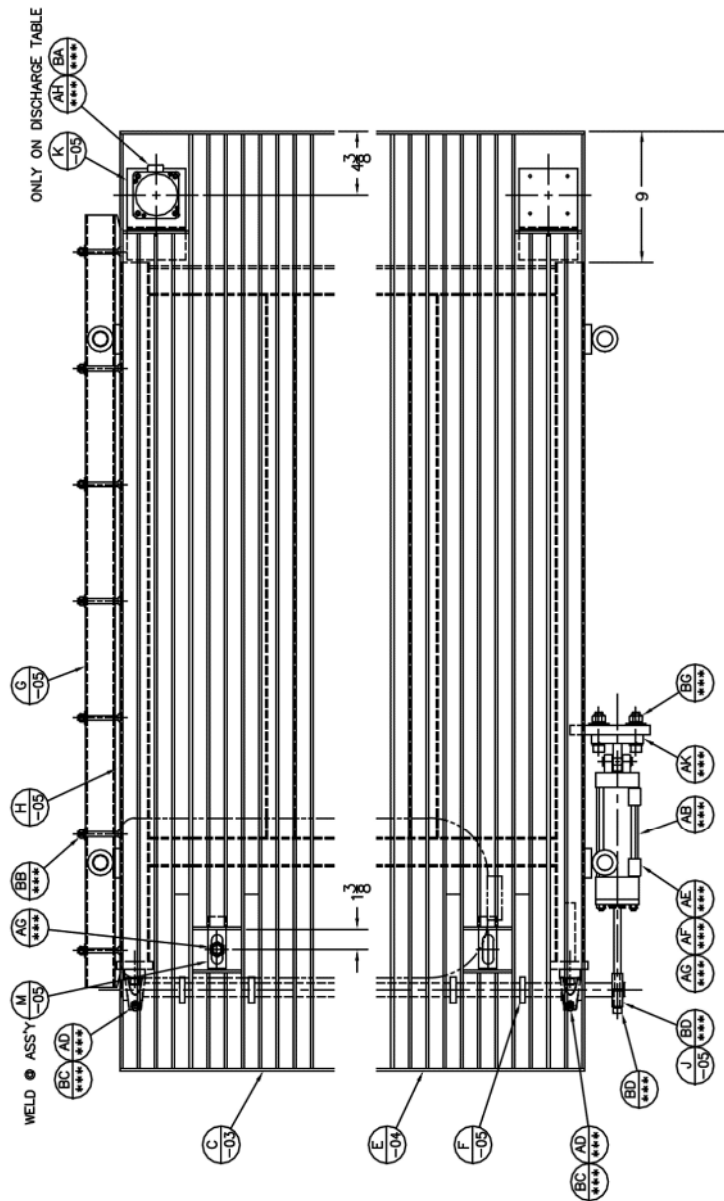
AW	51000-14-01	END BARRIER, GRAY	1
AZ	51000-14-01	SPRING CLAMP TERMINAL BLOCK, GREEN / YELLOW STRIPE	1
BA	51000-14-01	END ANCHOR, USED W/ STANDARD 35mm DIN RAIL	2
BB	51000-14-01	PLUG-IN CENTER JUMPER, 10 POLE, YELLOW	5 POLES

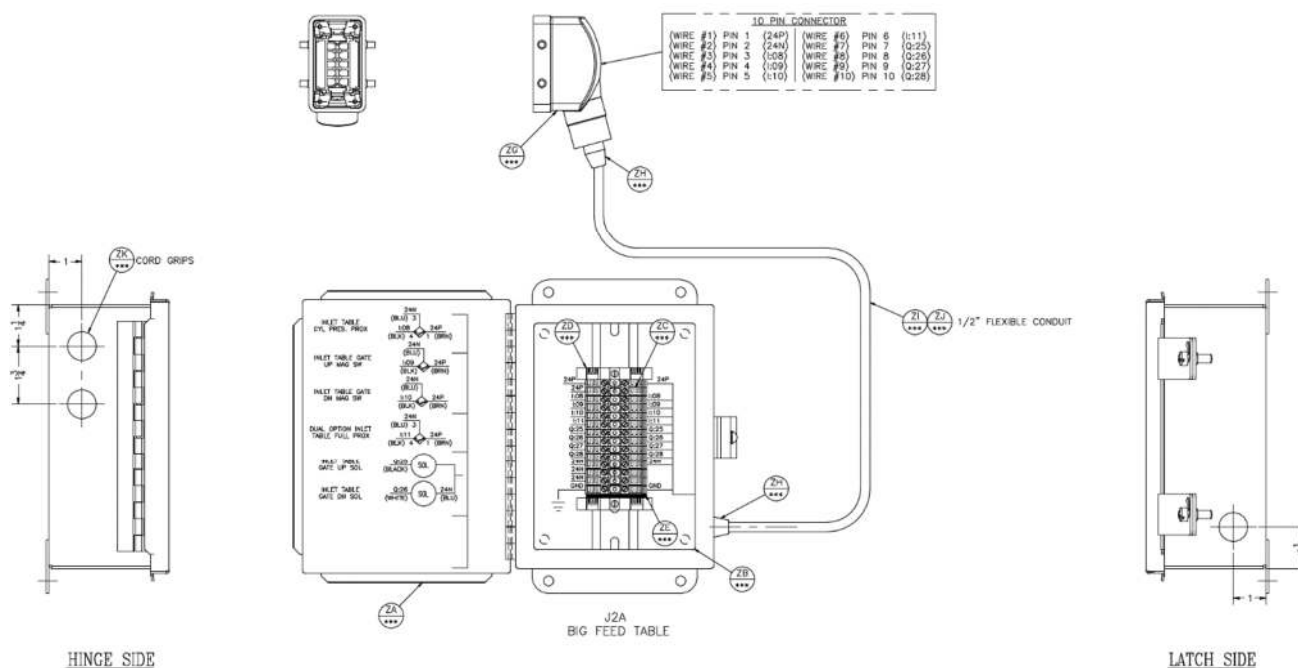
2.18.3 1104006 - ASSY, INLET TABLE #1, 65IN LG, DUAL OPT, RH CONFIG

2.18.4 1104016 - 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	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

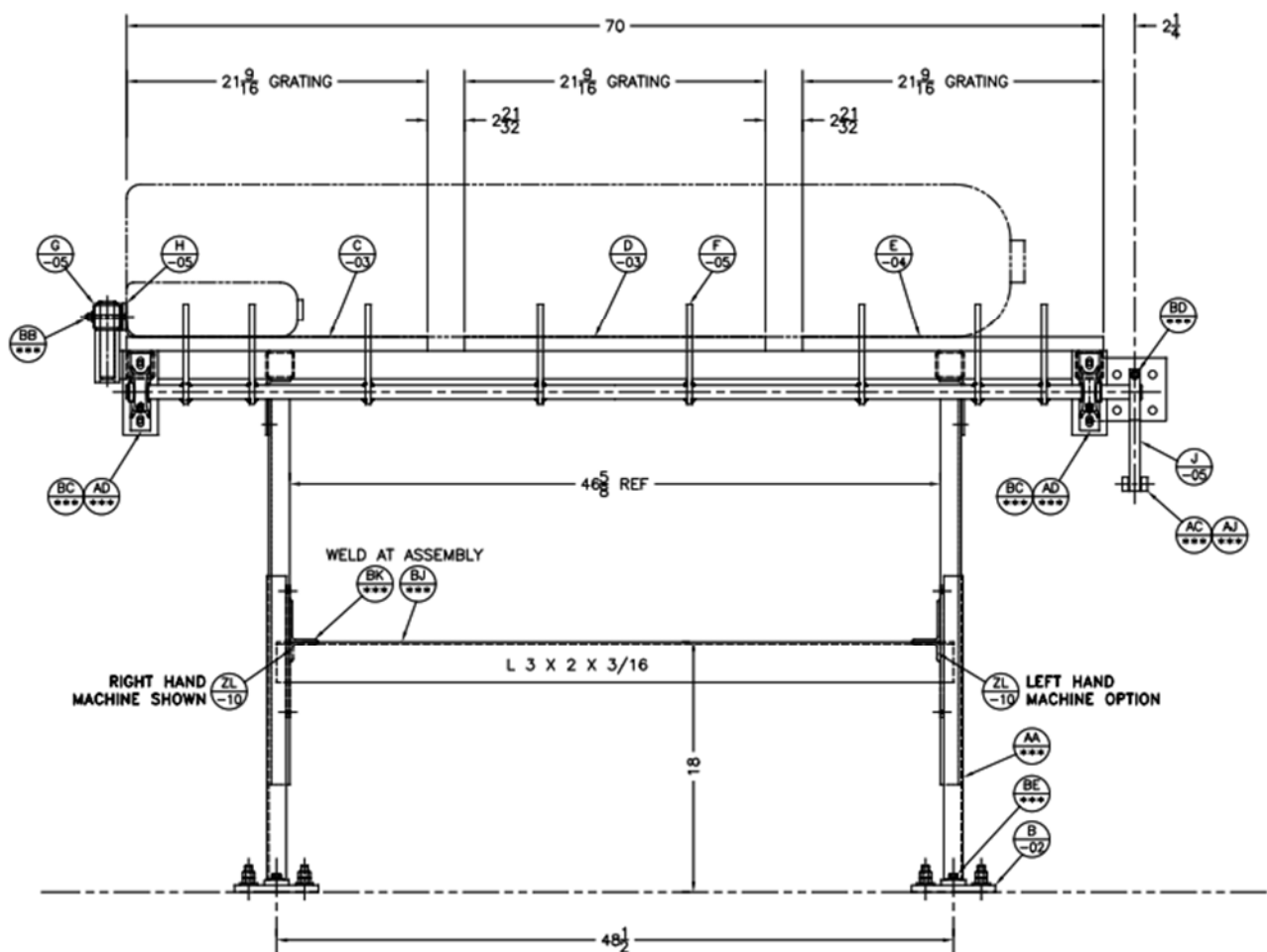


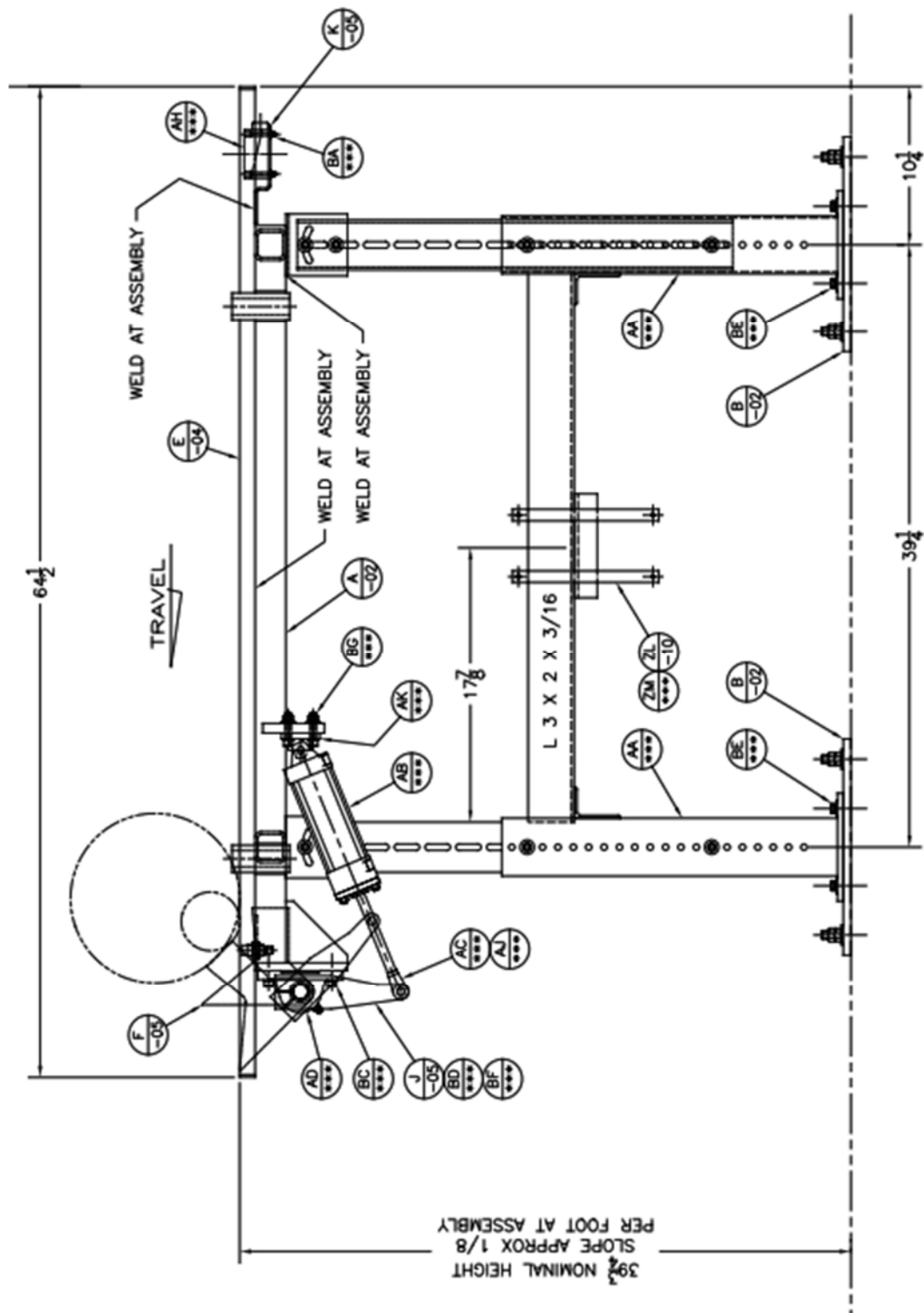
ZM2	10600-04-01	LOCKWASHER 1/4	16
ZN	10600-04-01	CORD GRIP, 1 HOLE, .20-.35 WIRE DIA., 1/2" NPT	6
ZP	10600-04-01	IEC TERMINAL BLOCK MARKERS	120

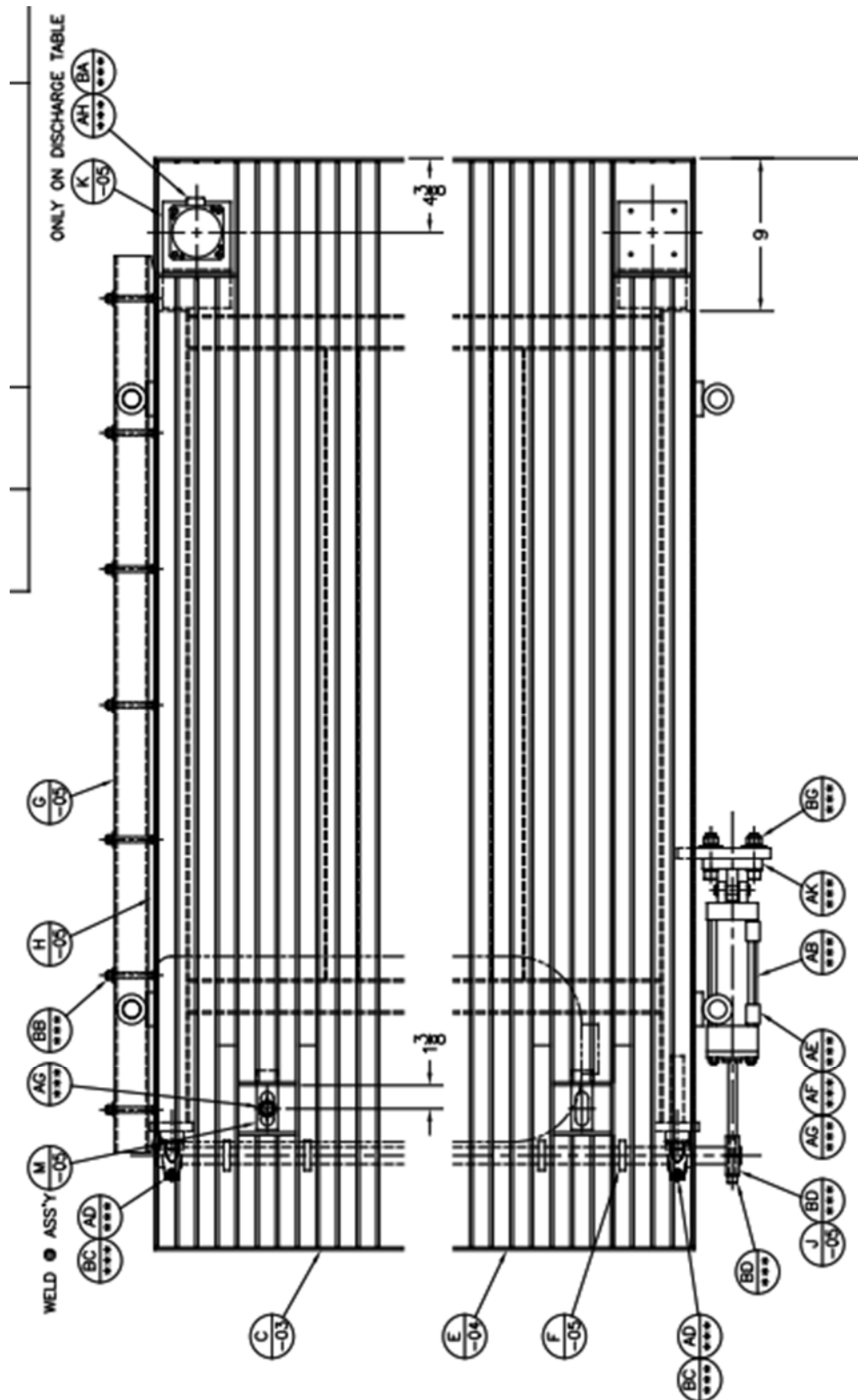
2.19 ASSY, OUTLET TABLE, 65IN LG

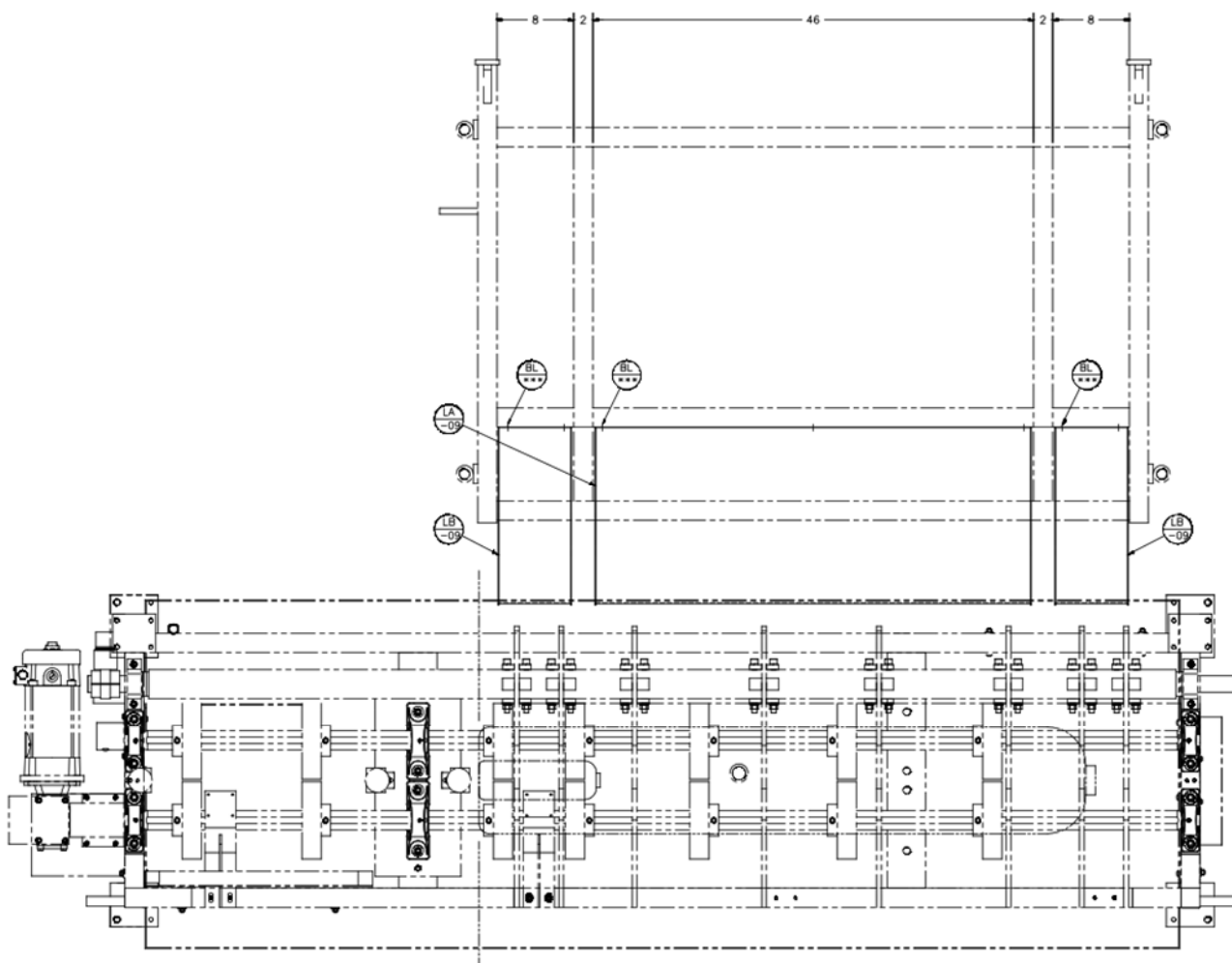
2.19.1 1104008 - ASSY, OUTLET TABLE, 65IN LG, SINGLE OPT, RH CONFIG

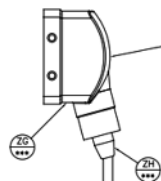
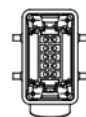
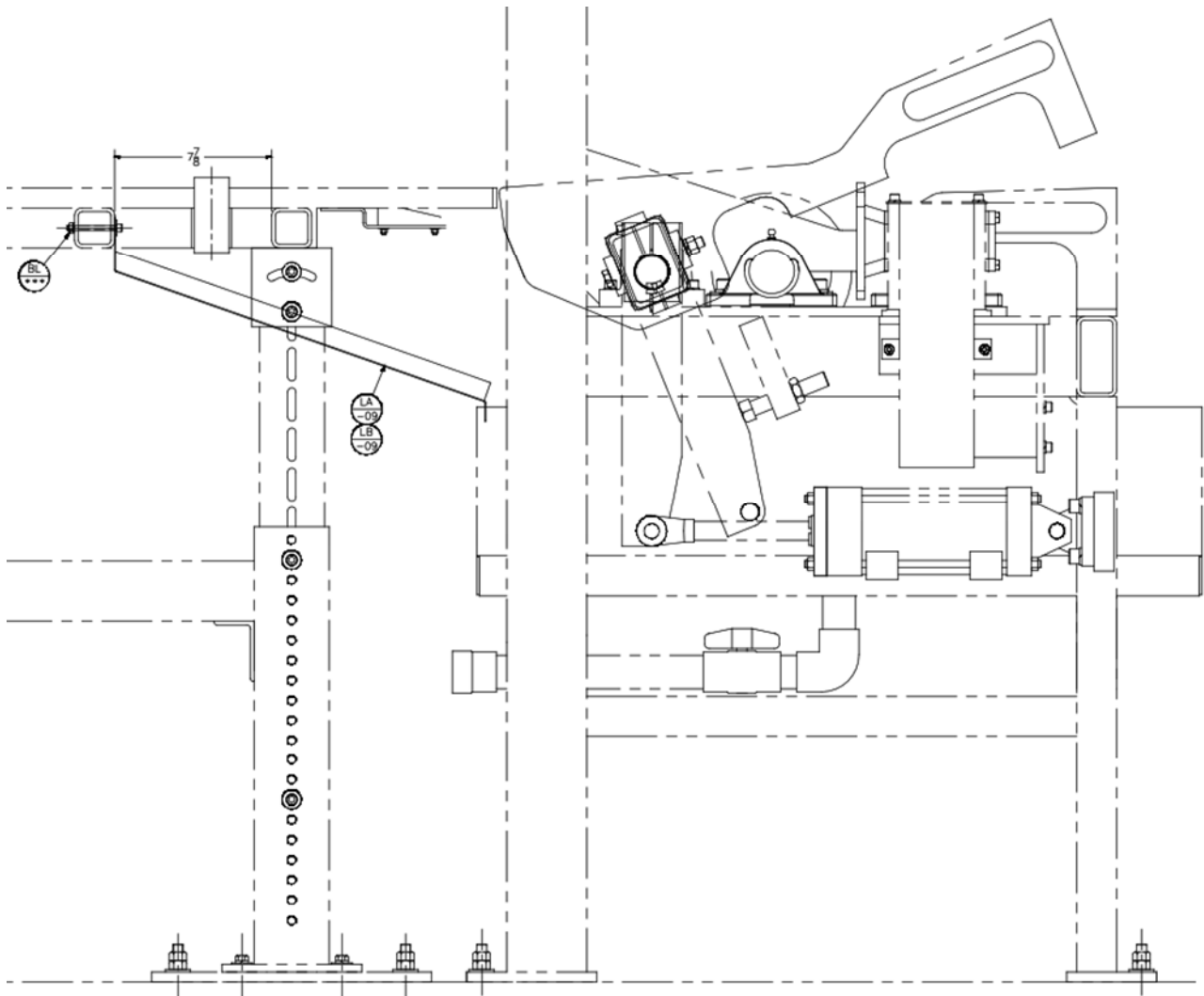
2.19.2 1104018 - ASSY, OUTLET TABLE, 65IN LG, SINGLE OPT, LH CONFIG



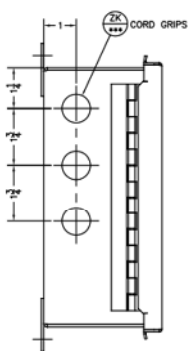




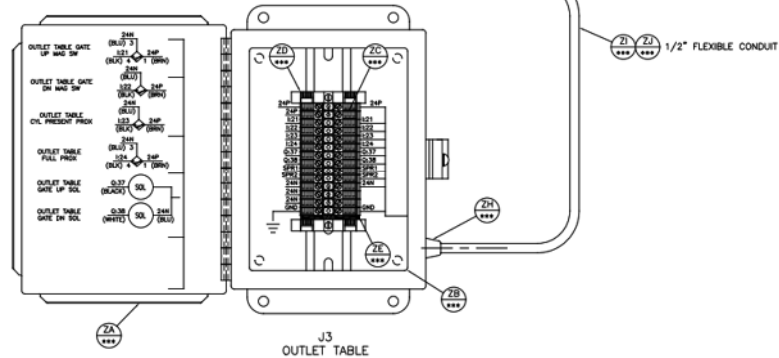




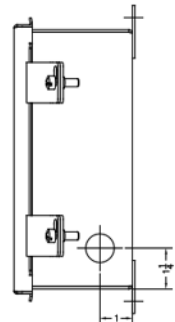
10 PIN CONNECTOR									
(WIRE #1) PIN 1 (24P)	(WIRE #6) PIN 6 (1:24)	(WIRE #11) PIN 11 (24P)	(WIRE #16) PIN 16 (1:24)	(WIRE #21) PIN 21 (24P)	(WIRE #26) PIN 26 (1:24)	(WIRE #31) PIN 31 (24P)	(WIRE #36) PIN 36 (1:24)	(WIRE #41) PIN 41 (24P)	(WIRE #46) PIN 46 (1:24)
(WIRE #2) PIN 2 (24N)	(WIRE #7) PIN 7 (0:37)	(WIRE #12) PIN 12 (24N)	(WIRE #17) PIN 17 (0:37)	(WIRE #22) PIN 22 (24N)	(WIRE #27) PIN 27 (0:37)	(WIRE #32) PIN 32 (24N)	(WIRE #37) PIN 37 (0:37)	(WIRE #42) PIN 42 (24N)	(WIRE #47) PIN 47 (0:37)
(WIRE #3) PIN 3 (1:21)	(WIRE #8) PIN 8 (0:36)	(WIRE #13) PIN 13 (1:21)	(WIRE #18) PIN 18 (0:36)	(WIRE #23) PIN 23 (1:21)	(WIRE #28) PIN 28 (0:36)	(WIRE #33) PIN 33 (1:21)	(WIRE #38) PIN 38 (0:36)	(WIRE #43) PIN 43 (1:21)	(WIRE #48) PIN 48 (0:36)
(WIRE #4) PIN 4 (1:22)	(WIRE #9) PIN 9 (SPR1)	(WIRE #14) PIN 14 (1:22)	(WIRE #19) PIN 19 (SPR1)	(WIRE #24) PIN 24 (1:22)	(WIRE #29) PIN 29 (SPR1)	(WIRE #34) PIN 34 (1:22)	(WIRE #39) PIN 39 (SPR1)	(WIRE #44) PIN 44 (1:22)	(WIRE #49) PIN 49 (SPR1)
(WIRE #5) PIN 5 (1:23)	(WIRE #10) PIN 10 (SPR2)	(WIRE #15) PIN 15 (1:23)	(WIRE #20) PIN 20 (SPR2)	(WIRE #25) PIN 25 (1:23)	(WIRE #30) PIN 30 (SPR2)	(WIRE #35) PIN 35 (1:23)	(WIRE #40) PIN 40 (SPR2)	(WIRE #45) PIN 45 (1:23)	(WIRE #50) PIN 50 (SPR2)



HINGE SIDE



OUTLET TABLE



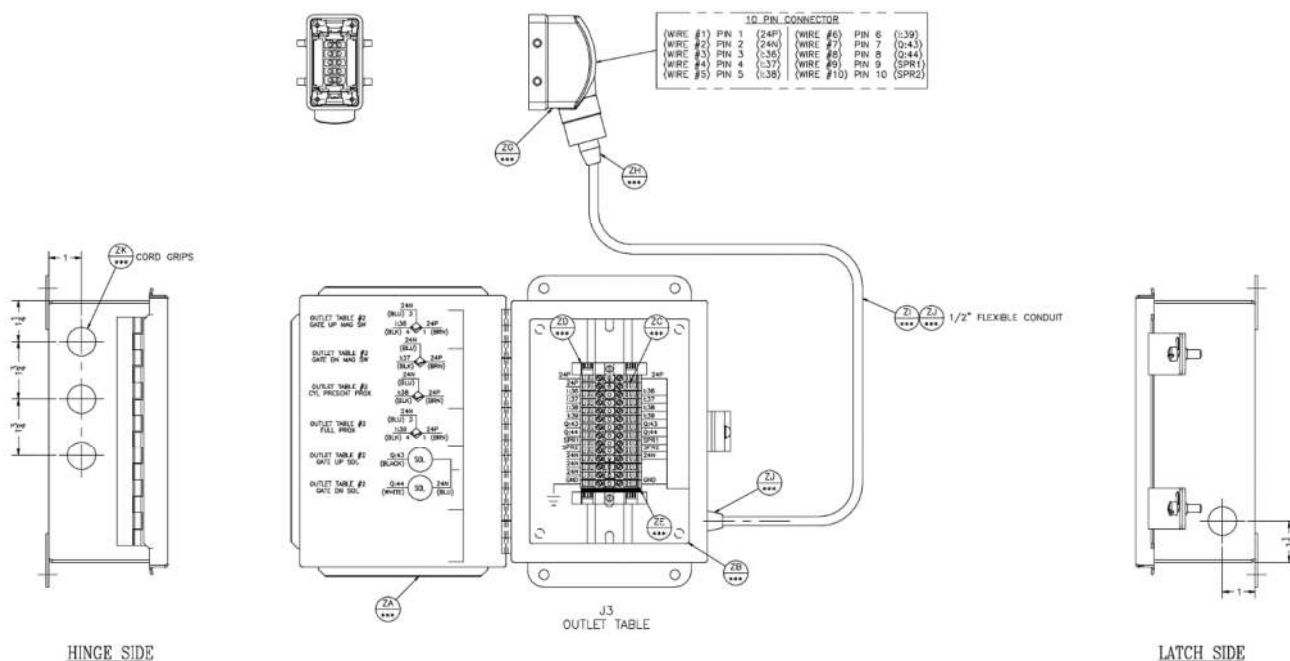
LATCH SIDE

ITEM NO.	PART NO.	DESCRIPTION	QTY
A2	11729-04-22	SUPPORT FRAME - W.S.	1
B	11729-04-02	BASE PLATE - STEEL	4
C	11729-04-03	GRATING ~ W.S.	1
D	11729-04-03	GRATING ~ W.S.	1
E	11729-04-04	GRATING ~ W.S.	1
F	11729-04-05	STOP SHAFT ~ W.S.	1
G	11729-04-05	SIDE GUIDE ~ W.S.	1
H	11729-04-05	SIDE GUIDE ~ UMHW	1
J	11729-04-05	PIVOT ARM ~ STL	1
K	11729-04-05	BRACKET ~ CRS	2
LA	11729-04-09	TRAY ~ WELDED STN. STL.	1
LB	11729-04-09	TRAY ~ WELDED STN. STL.	2
M	11729-04-05	BRACKET ~ 1/8" STL.	2
ZL	11729-04-10	JB MOUNTING PLATE ~ W.S.	1
AA	11729-04-01	ADJUSTABLE HEIGHT CONVEYOR LEG ASSEMBLY	4
AB	11729-04-01	ALUMINUM BODY AIR CYLINDER, 2 1/2" BORE X 5" STROKE, 5/8 ROD	1
AC	11729-04-01	ROD CLEVIS, 7/16-20 THREADS	1
AD	11729-04-01	1" BALL BEARING PILLOW BLOCK	2
AE	11729-04-01	REED SWITCH, TIE ROD MOUNT, QUICK DISCONNECT, LED	2
AG	11729-04-01	18mm BARREL TYPE PROXIMITY SWITCH, THREE-WIRE 24VDC, NON-SHIELDED, NORMALLY OPEN, PNP	1
AH	11729-04-01	3-WIRE DC INDUCTIVE PROXIMITY SWITCH, 50mm, PNP	1
AJ	11729-04-01	PIVOT PIN	1
AK	11729-04-01	EYE BRACKET	1
AL	11729-04-06	3/8 NPT MALE TO 3/8 TUBE RIGHT ANGLE FLOW CONTROL	2
AM	11729-04-06	3/8 OD TUBE X 3/8 NPT STRAIGHT FITTING	2
AN	11729-04-06	3/8 NPT MUFFLER	2
AP	11729-04-06	1/8 NPT MUFFLER	1
AQ	11729-04-06	1/8 NPT SQ. HD. PLUG	1
AR	11729-04-06	1/2 OD TUBE X 3/8 NPT STRAIGHT FITTING	1
AY	11729-04-06	POLYURETHANE TUBING, 3/8" O.D. X 100'	12'
AZ	11729-04-06	POLYURETHANE TUBING, 1/2" O.D. X 50'	25'
BH	11729-04-06	DOUBLE SOLENOID AIR VALVE	1
BA1	11729-04-01	SHCS #10-24 X 1 3/4 LG - GR 8	4
BA2	11729-04-01	HEX NUT #10-24	4
BA3	11729-04-01	LOCKWASHER #10	4
BA4	11729-04-01	FLAT WASHER #10	4
BB1	11729-04-01	FHSCS 5/16-18 X 3 LG - GR 8	7
BB2	11729-04-01	HEX NUT 5/16-18	7
BB3	11729-04-01	LOCKWASHER 5/16	7
BB4	11729-04-01	FLAT WASHER 5/16	7
BC1	11729-04-01	SHCS 3/8-16 X 1 1/2 LG - GR 8	8
BC2	11729-04-01	LOCKWASHER 3/8	8
BC3	11729-04-01	FLAT WASHER 3/8	8
BD1	11729-04-01	SHCS 3/8-16 X 2 1/4 LG - GR 8	2
BD2	11729-04-01	LOCKWASHER 3/8	2

BE1	11729-04-01	HHCS, 3/8-16 X 3/4 LG - GR 8	16
BE2	11729-04-01	LOCKWASHER 3/8	16
BE3	11729-04-01	FLAT WASHER 3/8	16
BF	11729-04-01	KEY 1/4 X 1/4 X 1 1/4	2
BG1	11729-04-01	SHCS 3/8-16 X 1-3/4 LG - GR 8	8
BG2	11729-04-01	HEX NUT 3/8-16	8
BG3	11729-04-01	LOCKWASHER 3/8	16
BG4	11729-04-01	FLAT WASHER 3/8	8
BJ	11729-04-01	ANGLE 3 X 2 X 3/16 X 48 1/2" LG	2
BK	11729-04-01	ANGLE 3 X 2 X 3/16 X 36" LG	2
BL1	11729-04-08	SHCS 1/4-20 X 2-1/2 LG - GR8	7
BL2	11729-04-08	HEX NUT 1/4-20	7
BL3	11729-04-08	LOCKWASHER 1/4	7
BL4	11729-04-08	FLAT WASHER 1/4	7
BM1	11729-04-01	SHCS #10-24 X 1 1/2 LG - GR 8	2
BM2	11729-04-01	HI-COLLAR LOCKWASHER #10	2
ZM1	11729-04-01	SHCS 1/4-20 X 3/8 LG -GR 8	4
ZM2	11729-04-01	LOCKWASHER 1/4	4
ZA	11729-04-11	HINGED ENCLOSURE, 8" X 6" X 3.5"	1
ZB	11729-04-11	ENCLOSURE PANEL	1
ZG2	11729-04-11	10 POLE FEMALE INSERT, SCREW TERMINALS	1
ZG3	11729-04-11	SIDE ENTRY HOOD, DOUBLE LEVER	1
ZG4	11729-04-11	Pg16 TO 1/2" NPT THREAD ADAPTER	1
ZH	11729-04-11	FLEXIBLE CONDUIT FITTING, 1/2" NPT STRAIGHT	2
ZI	11729-04-11	FLEXIBLE CONDUIT 1/2" DIA.	20'
ZJ	11729-04-11	FLEXIBLE PUR CONTROL CABLE,	22'
ZK	11729-04-11	CORD GRIP, 2 HOLE, .20-.24 WIRE DIA., 1/2" NPT	2
ZN	11729-04-01	CORD GRIP, 1 HOLE, .20-.35 WIRE DIA., 1/2" NPT	3
AU	51000-14-01	SNAP-IN INDIVIDUAL MARKER CARD, 5 MM X 10 MM	60
AV	51000-14-01	SPRING CLAMP TERMINAL BLOCK, GRAY	30
AW	51000-14-01	END BARRIER, GRAY	4
AZ	51000-14-01	SPRING CLAMP TERMINAL BLOCK, GREEN / YELLOW STRIPE	1
BA	51000-14-01	END ANCHOR, USED W/ STANDARD 35mm DIN RAIL	2
BB	51000-14-01	PLUG-IN CENTER JUMPER, 10 POLE, YELLOW	2 POLES

2.19.3 1104009 - ASSY, OUTLET TABLE #2, 65IN LG, DUAL OPT, RH CONFIG

2.19.4 1104019 - ASSY, OUTLET TABLE #2, 65IN LG, DUAL OPT, LH CONFIG

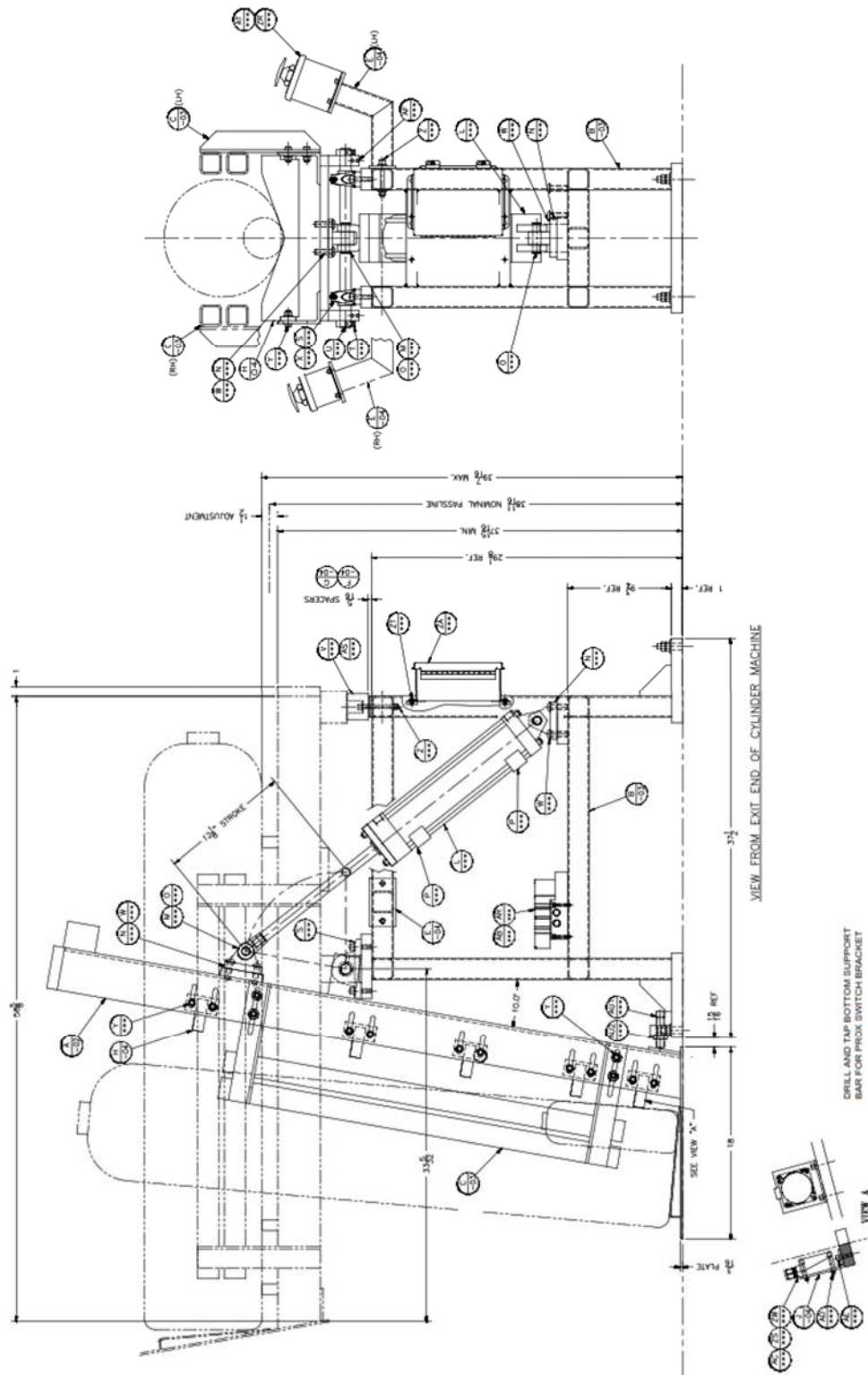


ITEM NO.	PART NO.	DESCRIPTION	QTY
A1	10600-04-02	SUPPORT FRAME - W.S.	2
A2	10600-04-02	SUPPORT FRAME - W.S.	2
B	10600-04-02	BASE PLATE - STEEL	16
C	10600-04-03	GRATING ~ W.S.	4
D	10600-04-03	GRATING ~ W.S.	4
E	10600-04-04	GRATING ~ W.S.	4
F	10600-04-05	STOP SHAFT ~ W.S.	4
G	10600-04-05	SIDE GUIDE ~ W.S.	4
H	10600-04-05	SIDE GUIDE ~ UMHV	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	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

2.20 ASSY, DOWNENDER, STANDARD



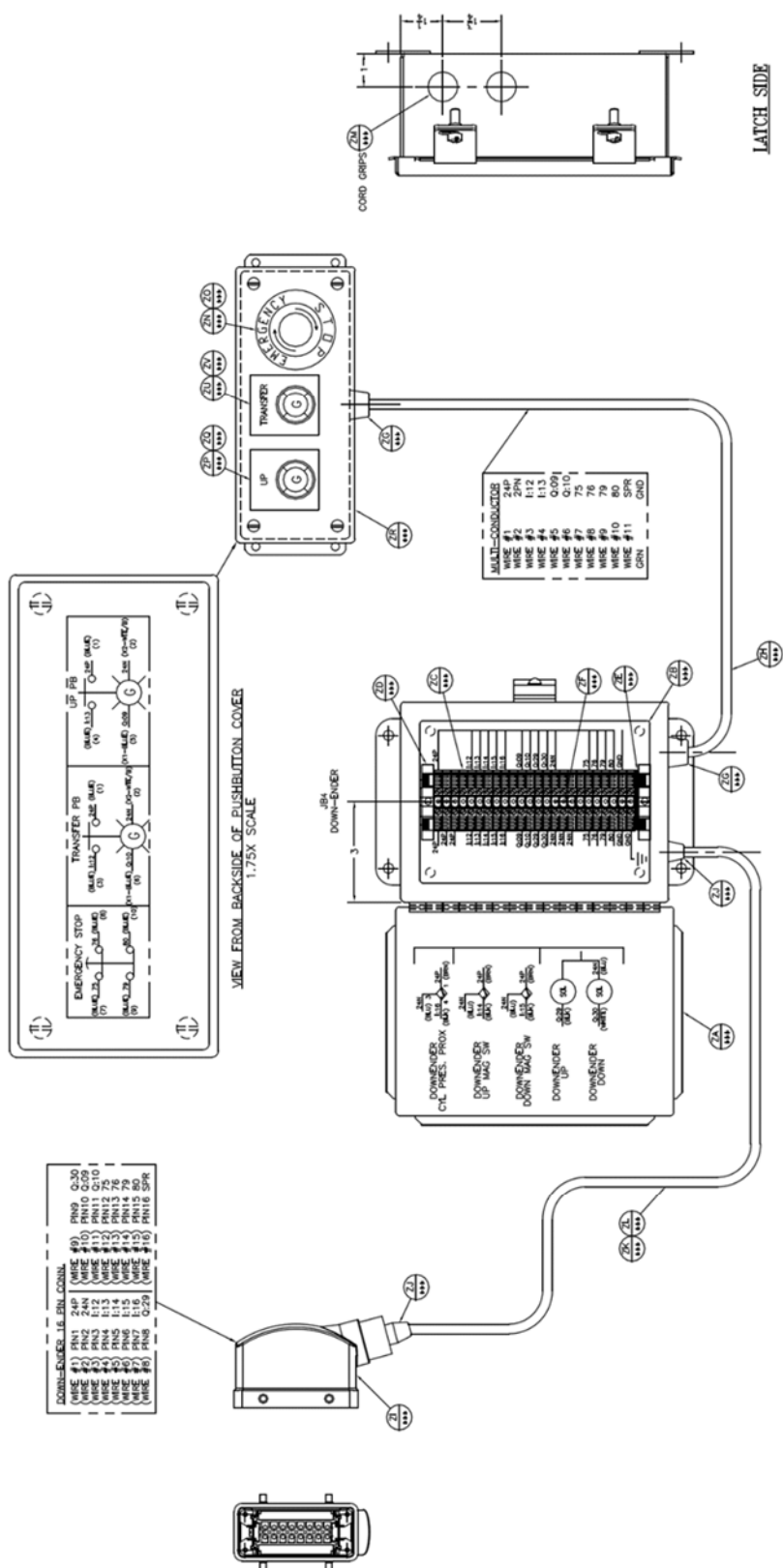
2.20.2 1104020 - ASSY, DOWNENDER, STANDARD, LH CONFIG



ITEM NO.	PART NO.	DESCRIPTION	QTY
A	11729-06-02	DOWN-ENDER TILT FRAME - WS	1
B	11729-06-03	SUPPORT FRAME - WS	1
C	11729-06-03	SIDE GUIDE - WS	1
E	11729-06-04	BOX MOUNT - WS	1
F	11729-06-04	SPACER - CRS	1
G	11729-06-04	SPACER - CRS	1
H	11729-06-04	SUPPORT BAR - WS	5
J	11729-06-04	BRACKET - CRS	1
L	11729-06-01	ALUMINUM BODY AIR CYLINDER	1
M	11729-06-01	ROD CLEVIS FOR 3/4-16 THREADS	1
N	11729-06-01	EYE FOR BRACKET 3/4" DIAMETER PIN	2
O	11729-06-01	PIVOT PIN 3/4" DIAMETER	2
P	11729-06-01	REED SWITCH, TIE ROD MOUNT, QUICK DISCONNECT, LED	2
S	11729-06-01	1" BALL BEARING PILLOW BLOCK	2
T	11729-06-01	1" SHAFT COLLAR	2
U	11729-06-01	1" DIA CRS X 16 3/4" LG	1
V	11729-06-01	SOLID RUBBER BUMPER	1
W	11729-06-01	BHCS 1/2-13 X 1 5/8 LG - GR 8	8
X1	11729-06-01	SHCS 3/8-16 X 1 1/2 LG - GR 8	4
X2	11729-06-01	LOCKWASHER 3/8	4
Y1	11729-06-01	LOW HD SOC CAPSCREW 3/8-16 X 1 1/2 LG - GR 8	28
Y2	11729-06-01	HEX NUT 3/8-16	28
Y3	11729-06-01	LOCKWASHER 3/8	28
Y4	11729-06-01	FLAT WASHER 3/8	28
Z1	11729-06-01	SHCS 3/8-16 X 4 LG - GR 8	2
Z2	11729-06-01	HEX NUT 3/8-16	2
Z3	11729-06-01	LOCKWASHER 3/8	2
Z4	11729-06-01	FLAT WASHER 3/8	2
AA	11729-06-01	1/2" TUBE X 1/2" NPT RIGHT ANGLE FLOW CONTROL	2
AB	11729-06-01	DOUBLE SOLENOID AIR VALVE	1
AC	11729-06-01	3-WIRE DC INDUCTIVE PROXIMITY SWITCH, 50mm, PNP	1
AD1	11729-06-01	SHCS #10-24 X 3/4 LG - GR 8	4
AD2	11729-06-01	HEX NUT #10-24	4
AD3	11729-06-01	LOCKWASHER #10	4
AD4	11729-06-01	FLAT WASHER #10	4
AE1	11729-06-01	SHCS 5/16-18 X 1 - GR 8	2
AE2	11729-06-01	LOCKWASHER 5/16	2
AF	11729-06-01	CUP POINT SETSCREW 5/16-18 X 3/4 LG	2
AM	11729-06-01	1/2" TUBE TO 3/8"NPT STRAIGHT	3
AN	11729-06-01	3/8" NPT MUFFLER	2
AP	11729-06-01	1/8" NPT MUFFLER	1
AQ	11729-06-01	1/8 NPT SQ. HD. PLUG	1
AR1	11729-06-01	SHCS #10-24 X 1 1/2 LG - GR 8	6
AR2	11729-06-01	HI-COLLAR LOCKWASHER #10	6
AS1	11729-06-01	SHCS 3/8-16 X 4 LG - GR 8	2
AS2	11729-06-01	HEX NUT 3/8-16	2
AS3	11729-06-01	LOCKWASHER 3/8	2

AS4	11729-06-01	FLAT WASHER 3/8	2
AT1	11729-06-01	BHCS #10-24 X 3/8 LG - GR 8	4
AT2	11729-06-01	LOCKWASHER #10	4
AU1	11729-06-01	SQ HD SETSCREW 3/4-10 X 3" LG.	1
AU2	11729-06-01	3/4-10 HEX JAM NUT	1
AZ	11729-06-01	POLYURETHANE TUBING, 1/2" O.D.	33'
ZA	11729-06-01	HINGED ENCLOSURE, 8" X 6" X 3.5"	1
ZB	11729-06-01	ENCLOSURE PANEL	1
AV	51000-14-01	SPRING CLAMP TERMINAL BLOCK, GRAY	22
BA	51000-14-01	END ANCHOR, USED W/ STANDARD 35mm DIN RAIL	2
AW	51000-14-01	END BARRIER, GRAY	1
BB	51000-14-01	PLUG-IN CENTER JUMPER, YELLOW	8
ZG	11729-06-01	FLEXIBLE CONDUIT FITTING, 1/2" NPT 90 DEGRE	2
ZH	11729-06-01	FLEXIBLE CONDUIT 1/2" DIA	5'
ZI2	11729-06-01	16 POLE FEMALE INSERT, SCREW TERMINALS	1
ZI3	11729-06-01	SIDE ENTRY HOOD, DOUBLE LEVER	1
ZI5	11729-06-01	Pg21 TO 3/4" NPT THREAD ADAPTER	1
ZJ	11729-06-01	FLEXIBLE CONDUIT FITTING, 3/4" NPT STRAIGHT	2
ZK	11729-06-01	FLEXIBLE CONDUIT 3/4" DIA	20'
ZL	11729-06-01	FLEXIBLE PUR CONTROL CABL	23'
ZM	11729-06-01	CORD GRIP, 2 HOLE, .20-.24 WIRE DIA., 1/2" NPT	2
ZN	11729-06-01	30mm TWO-POSITION PUSH-PULL BUTTON, RED MUSHROOM HEAD, 1 NC CONTACT	1
ZN1	11729-06-01	30mm CONTACT BLOCK, 1 NC CONTACT	1
ZO	11729-06-01	30mm ROUND YELLOW ESTOP LEGEND PLATE	1
ZP	11729-06-01	30mm 24V GREEN ILLUMINATED PUSHBUTTON, 1 NO CONTACT	1
ZQ	11729-06-01	30mm "UP" LEGEND PLATE, BLACK BACKGROUND	1
ZR	11729-06-01	30MM PUSH BUTTON STEEL ENCLOSURE	1
ZS	11729-06-01	MULTI-CONDUCTOR CABLE	20'
ZT1	11729-06-01	BHCS 1/4-20 X 3/8 LG -GR 8	4
ZT2	11729-06-01	LOCKWASHER 1/4	4
ZU	11729-06-01	30mm 24V GREEN ILLUMINATED PUSHBUTTON, 1 NO CONTACT	1
ZV	11729-06-01	30mm "TRANSFER" LEGEND PLATE	1
ZW	11729-06-01	CORD GRIP, 1 HOLE, .20-.35 WIRE DIA., 1/2" NPT	2
AR	51000-14-01	35MM X 7.5MM DIN RAIL	7"
AU	51000-14-01	SNAP-IN INDIVIDUAL MARKER CARD, 5 MM X 10 MM	48
ZZ	11729-06-01	WASHDOWN HOW PLUG, 30MM BUTTON HOLE	1
AZ	51000-14-01	SPRING CLAMP TERMINAL BLOCK GREEN / YELLOW STRIPE	1

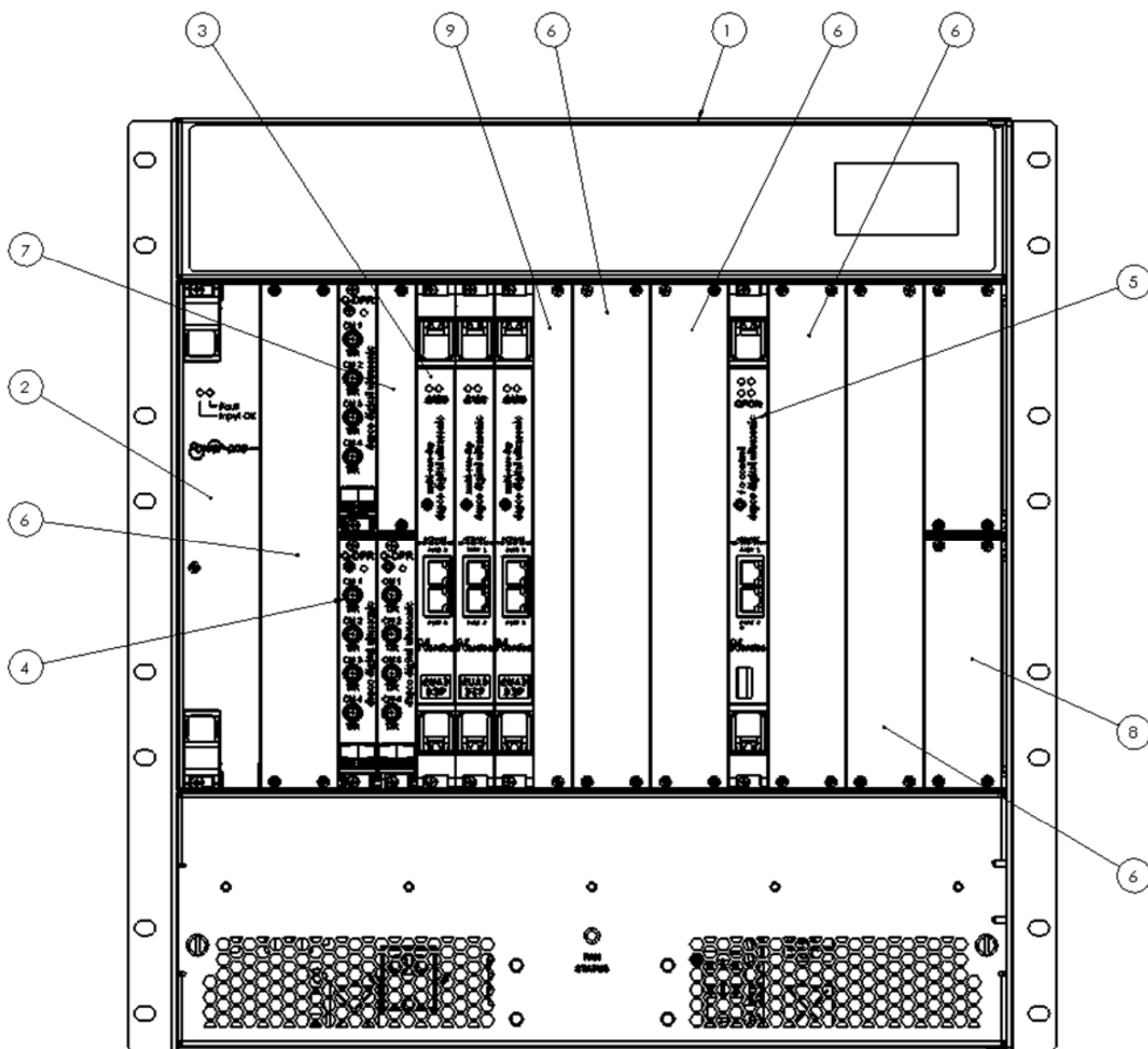
2.20.4 1104720 - ASSY, DOWNENDER, STANDARD, LH CONFIG WITH OUTLET



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

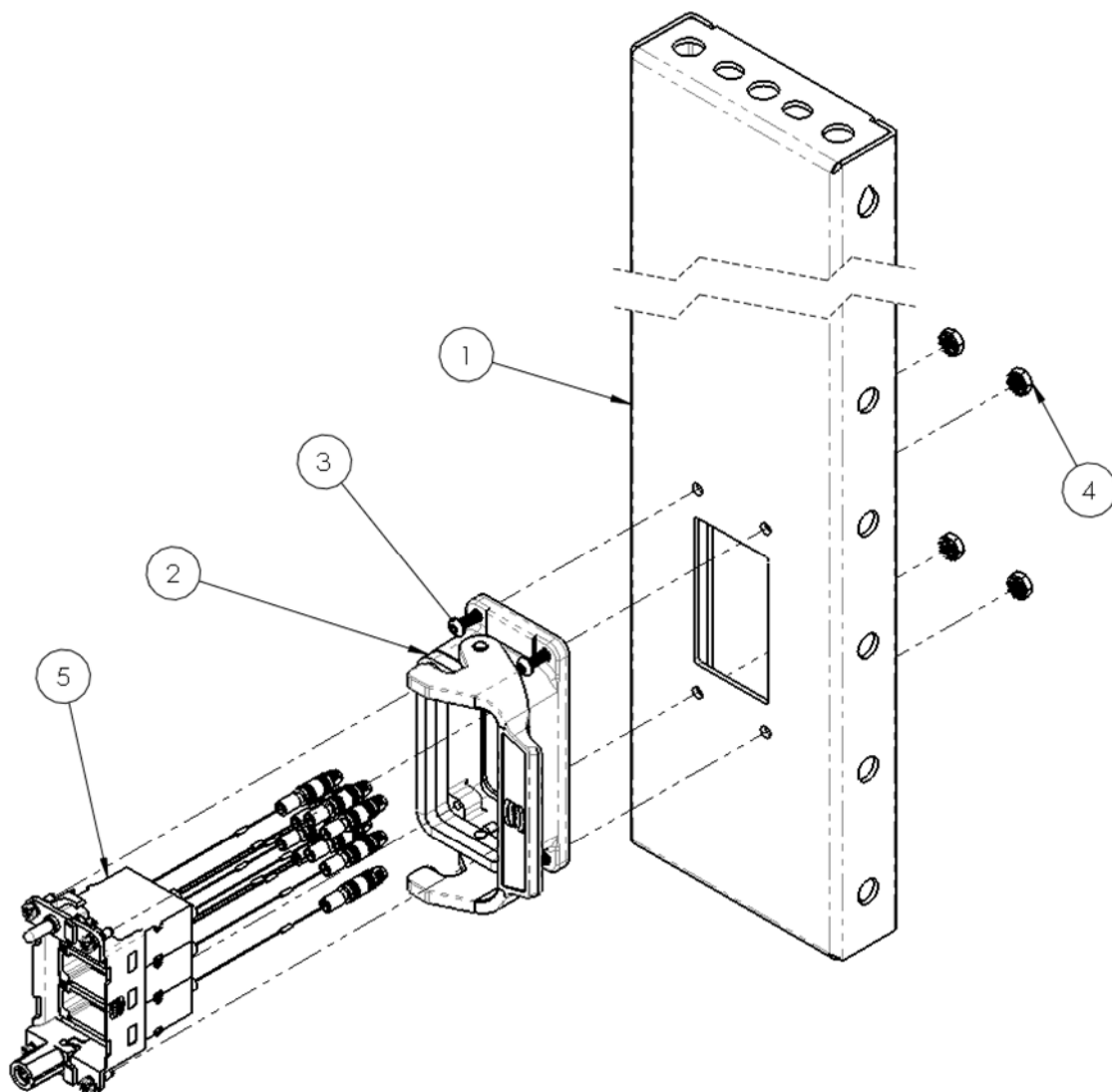
AS2	10825-06-01	HEX NUT 3/8-16	2
AS3	10825-06-01	LOCKWASHER 3/8	2
AS4	10825-06-01	FLAT WASHER 3/8	2
AT1	10825-06-01	SHCS 3/8-16 X 4 LG - GR 8	2
AT2	10825-06-01	HEX NUT 3/8-16	2
AT3	10825-06-01	LOCKWASHER 3/8	2
AT4	10825-06-01	FLAT WASHER 3/8	2
ZA	10825-06-01	HINGED ENCLOSURE, 8" X 6" X 3.5"	1
ZB	10825-06-01	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

2.21 1104210 - ASSY, DSP32 SYSTEM, 12 CHNL



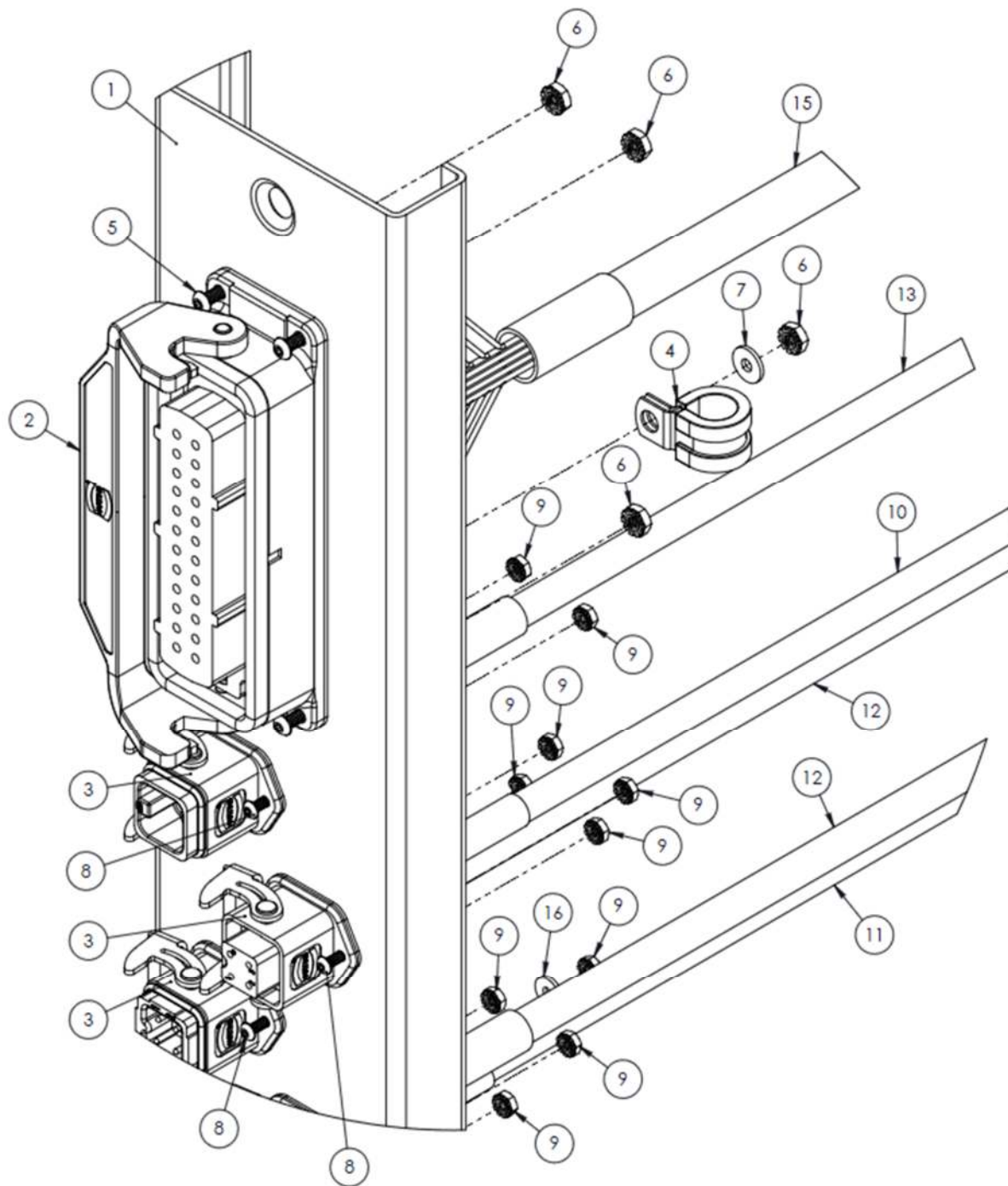
ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1101340	CHASSIS, DSP, 32 CHNL, 11U, SPLIT-BUS BACKPANEL	1
2	1000347	POWER SUPPLY, 6U, COMPACT PCI, 90-264VAC INPUT	1
3	1103798	BOARD, DSP W PWR SUPPLY, QUAD 40MHZ	3
4	1103491	BOARD, PULSER, QUAD, PULSE ECHO	3
5	1103493	BOARD, I/O W PWR SUPPLY	1
6	1104134	SLOT COVER, 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

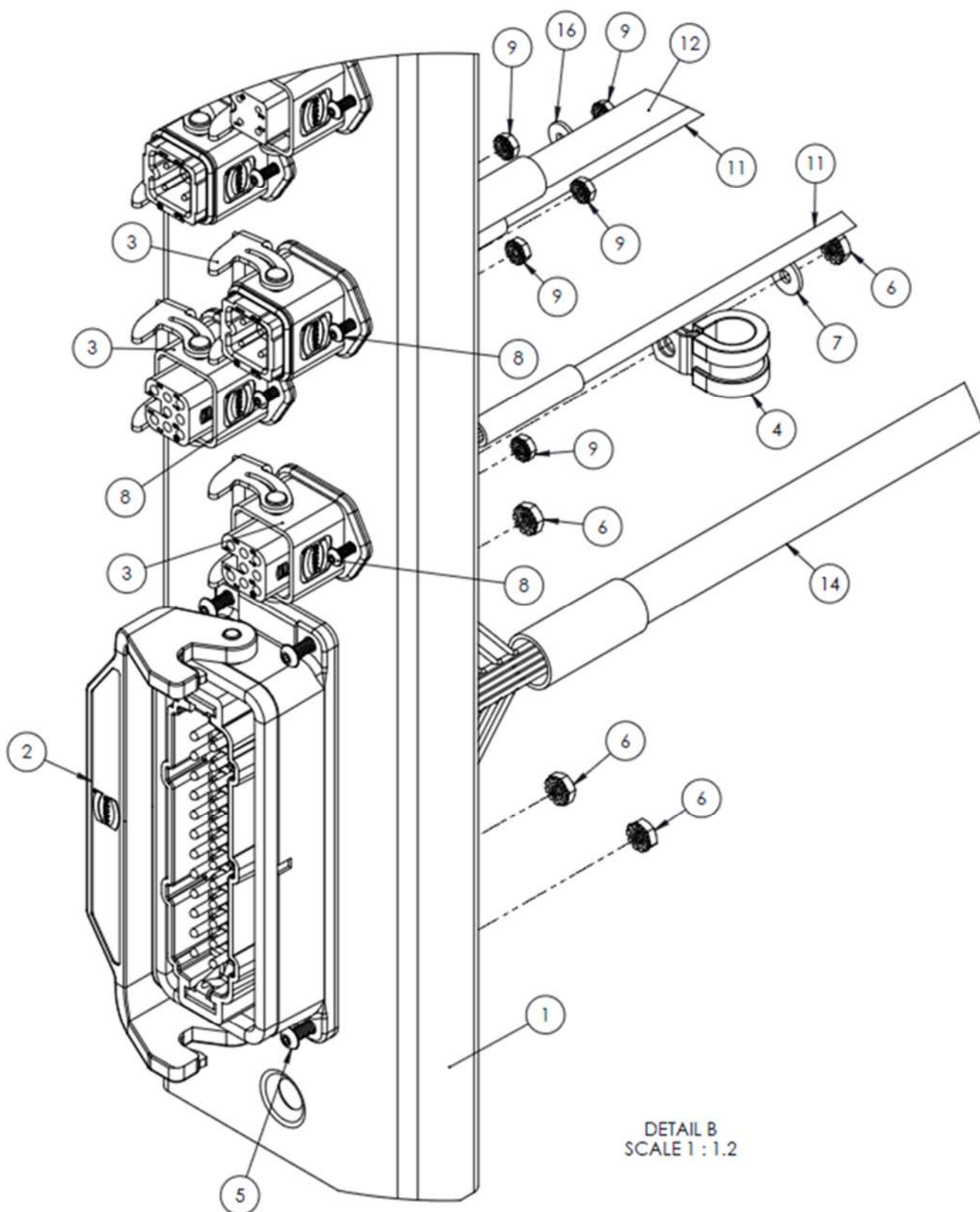
2.22 1104165 - ASSY, SIDE PLINTH UT CONNECTOR AND CABLE

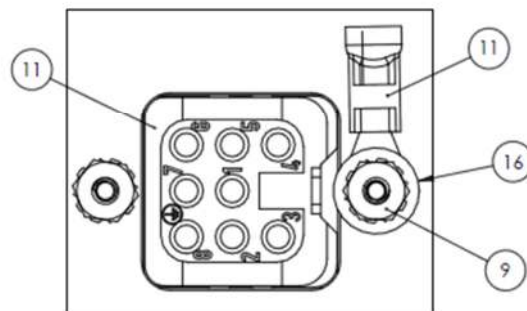
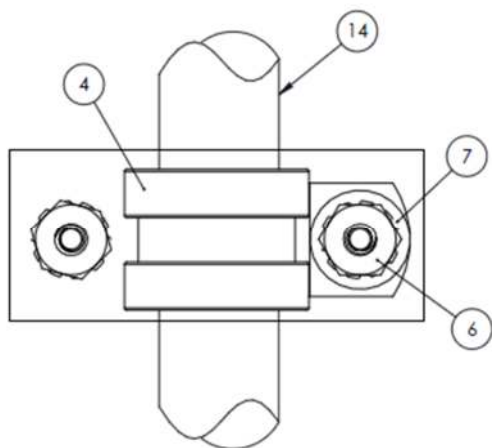


ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1105243	PLINTH, CYL IND, SIDE, CUT OUT FOR CONN	1
2	1104168	BULKHEAD MOUNTING, HAN B SIZE	1
3	BHCS_SS-6-32x0.500	SCREW, BUTTON HEAD CAP, 6-32 X .5 LG, SS	4
4	HNTL_SS-6-32	HEX NUT, TOOTH LOCKING, 6-32, SS	4
5	1104510	ASSY, CBL, WHEEL, DSP, LC, PLINTH CONN, 7FT, LEMO	1

2.23 1104280 - ASSY, PLINTH, CYL IND, REAR PNL, FULL ASSM





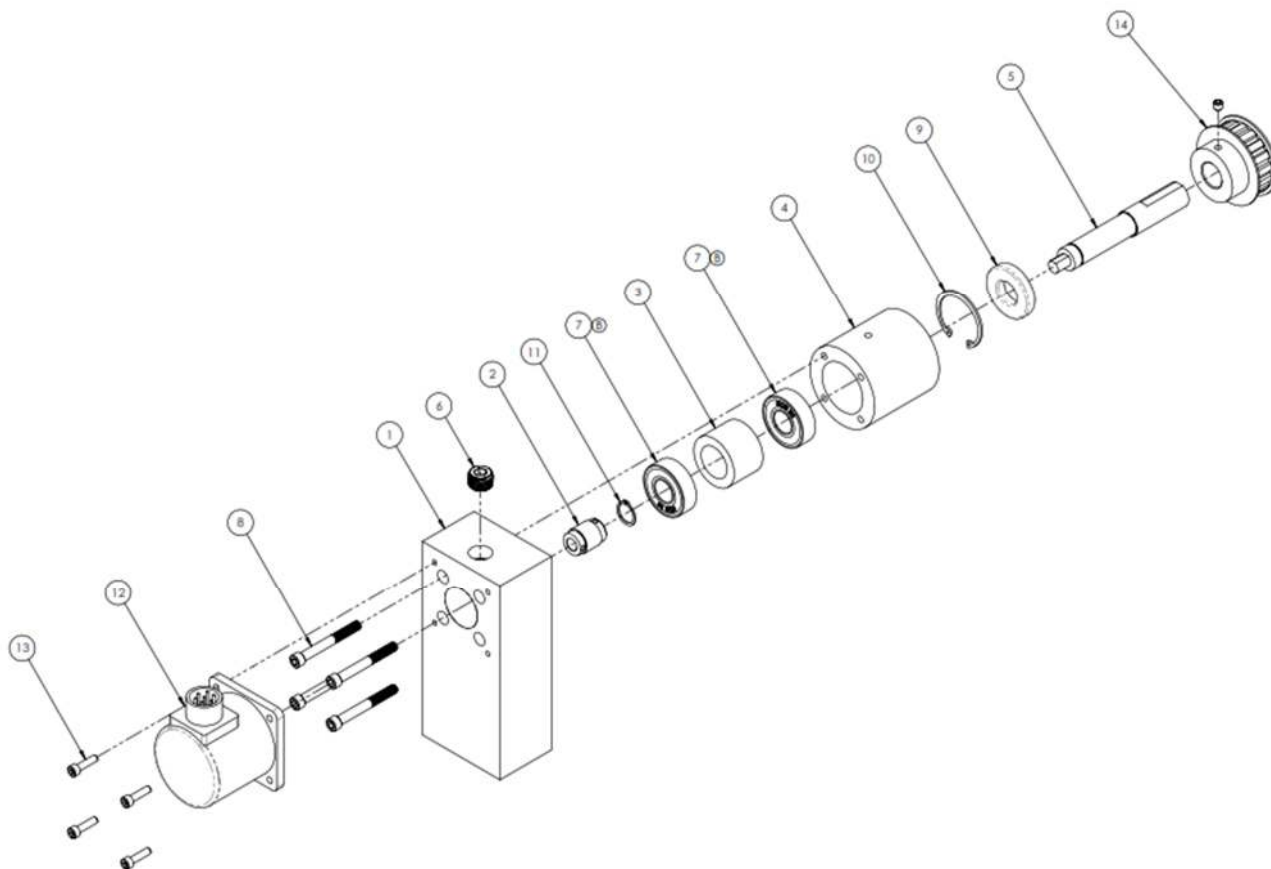


ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1105244	PLINTH, CYL IND, REAR, CUT OUT FOR CONN	1
2	1000487	BULKHEAD MOUNTING, HAN 24 B SIZE	2
3	8001528	BULKHEAD MOUNTING, HAN 3 A SIZE, ONE LEVER LOCKING	6
4	1104278	LOOP CLAMP, .5IN ID, .5IN WIDE, VIBRATION-DAMPING	2
5	BHCS_SS-6-32x0.625	"SCREW, BUTTON HEAD CAP, 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

2.24 ELECTRONICS CABINET PARTS

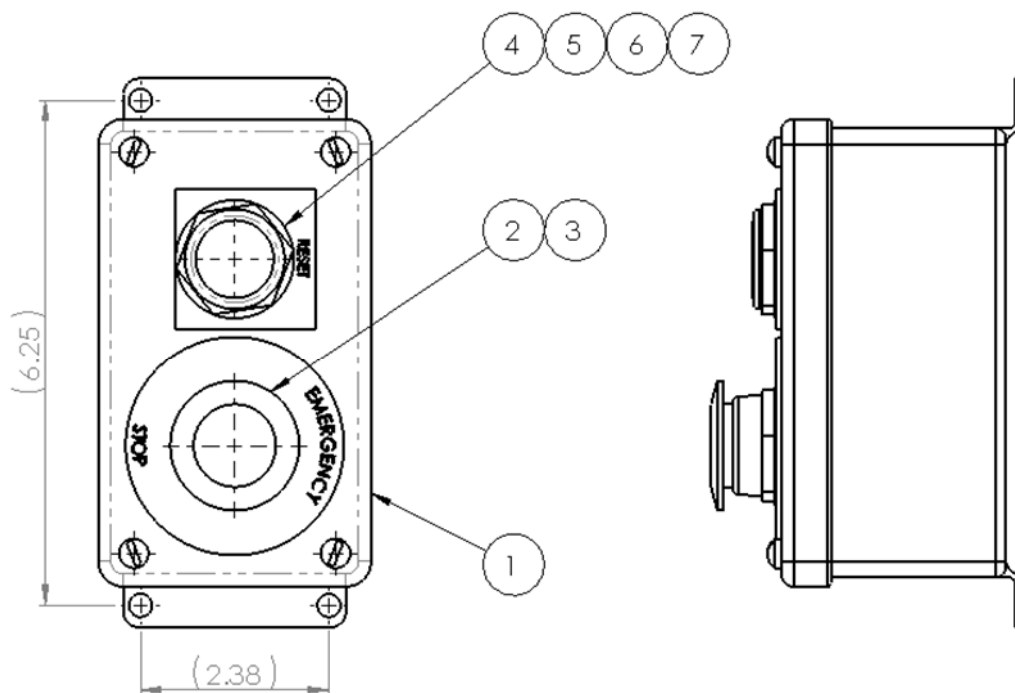
Contact Nordco support team for parts. Have a photo of the part(s) installed and separate (if possible) to assist in identifying the part(s) needed.

2.25 1102779 - ASSY, ENC, 18 TOOTH, WITH ENCODER, WITH Z, LC



ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1006016	MAIN BODY, ENCODER ASSY, TRUCK FRONT, 6.5IN LG	1
2	1001087	ASSEMBLY, FRONT ENCODER COUPLER COMPLETE = 2 HUB & 1 SLEEVE	1
3	1006017	INSERT, ENCODER ASSY, TRUCK FRONT	1
4	1006018	BLOCK, BEARING	1
5	1006019	SHAFT, ENCODER , TRUCK FRONT	1
6	8001324	PRESSURE PLUG, 3/8-18 N.P.T.	1
7	8001231	BEARING	2
8	SHCS_SS-0.25-20x2.250	1/4-20 X 2.25 LG SOCKET HEAD CAP SCREW, SS	4
9	8001643	SEAL, OIL, 3/4" SHAFT, 1-5/8" BORE, 5/16" WIDTH, 7PSI	1
10	RING_SS-1.658x0.068	RETAINING RING, INTERNAL, 1-9/16" BORE, SS	1
11	1102605	RETAINING RING, EXTERNAL, 5/8" BORE, SS	1
12	1102384	ENCODER, 2048 PPR QUAD, WITH Z CHANNEL, 5-18VDC	1
13	SHCS_SS-10-24x0.750	#10-24 X 0.75 LG SOCKET HEAD CAP SCREW, SS	4
14	8001144	PULLEY, TIMING	1

2.26 1104357 - ASSY, E-STOP J-BOX, 24VDC, GEN 2

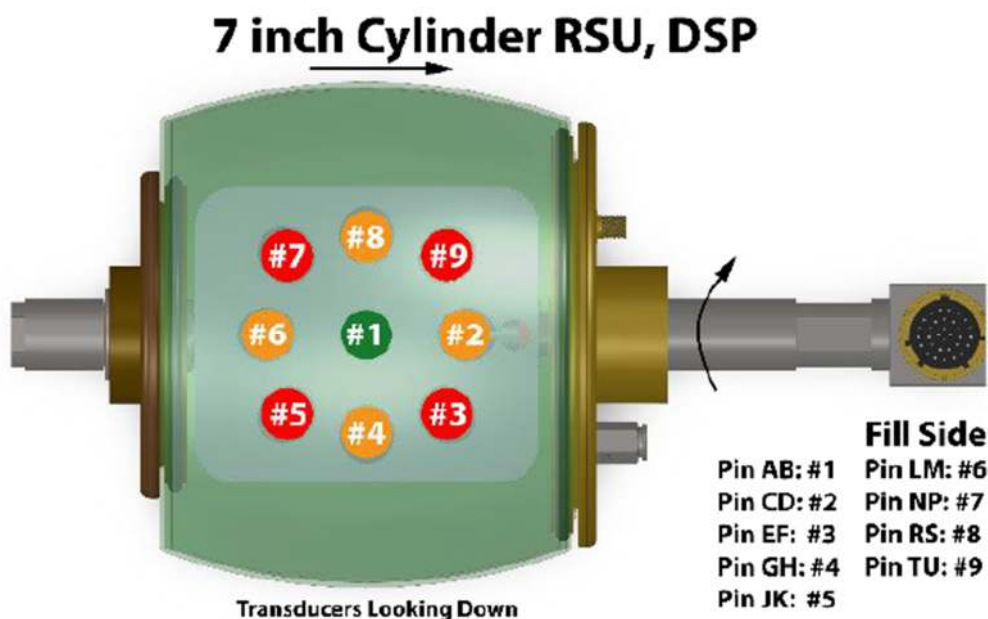


ITEM NO.	PART NO.	DESCRIPTION	QTY
1	1104358	MOD, E-STOP BOX INDUSTRIAL	1
2	8001103	BUTTON, E-STOP, 22MM SERIES, 40MM BUTTON	1
3	8001104	LABEL, 22MM SERIES, 2.76IN (70MM) OD	3
4	8001102	PUSH BUTTON, 22MM SERIES, FLUSH GREEN LENS	3
5	8001109	CONTACT BLOCK, 1 NO (NORMALLY OPEN), 22MM SERIES	1
6	1104359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

2.27 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



Available spare parts:

ITEM NO.	PART NO.	DESCRIPTION	QTY
1	4003025	MEMBRANE, WHEEL, LC, 317	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

2.28 CSPEC-0012 - SYSTEM CTRL COMPUTER, 1U, 16-500, RAID, WIN10 EMB



2.29 1104362 - ASSY, ETHERNET SWITCH WITH POWER 110VAC SWITCH



2.30 1105581 – ASSY, ICIS CABINET COMPLETE AB CONFIG 1

LOAD CONVEYOR, DOWNENDER

2.31 1105582 – ASSY, ICIS CABINET COMPLETE AB CONFIG 2

UPENDER, INLET, OUTLET, DOWNENDER

2.32 1105583 – ASSY, ICIS CABINET COMPLETE AB CONFIG 3

UPENDER, DOWNENDER

2.33 1105584 – ASSY, ICIS CABINET COMPLETE AB CONFIG 4

UPENDER, INLET OPTION, INLET, OUTLET, OUTLET OPTION, DOWNENDER

2.34 System Cables

PART NO.	DESCRIPTION
8001196	AIR CONDITIONER to CIRCUIT BREAKER ON DIN 3 (PCBL05)
1102864	COMPUTER WAN PORT 2 to DSP ETHERNET SWITCH PORT 16 (ECBL01)
7000271	COMPUTER WAN PORT 3 to ETHERNET SWITCH ON BACK PANEL PORT 1 (ECBL02)
1102865	PLC CPU to ETHERNET SWITCH ON BACK PANEL PORT 2 (ECPL03)
1104334	REAR PLINTH to TERMINALS ON DIN 4 (SCBL01)
1104220	REAR PLINTH to J74 BREAKOUT (SCBL02)
1104220	REAR PLINTH to J73 BREAKOUT(SCBL03)
1104281	REAR PLINTH to FUSES AND GND ON DIN 1 (SCBL04)
1104281	REAR PLINTH to FUSES AND GND ON DIN 2 (SCBL05)
1104224	REAR PLINTH to TERMINALS ON DIN 7 (SCBL06)
1104285	REAR PLINTH to TERMINALS ON DIN 4 (SCBL07)
1104335	REAR PLINTH to TERMINALS ON DIN 5 (SCBL08)
1000946	J73 BREAKOUT to DSP J73 CONNECTOR (SCBL09)
1000946	J74 BREAKOUT to DSP J74 CONNECTOR(SCBL10)
1103890	LONGITUDINAL ENCODER to REAR PLINTH REC2 (SCBL12)
1103890	ROTATIONAL ENCODER to REAR PLINTH REC3 (SCBL13)
1104254	LONGITUDINAL MOTOR to REAR PLINTH REC4 (SCBL14)

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1104254	ROTATIONAL MOTOR to REAR PLINTH REC5 (SCBL15)
1104365	KIT, WATER OUTLET to REAR PLINTH REC7 (SCBL17 kit)
1103751	E-STOP BOX to BACK PANEL (SCBL23)
1102774	MAIN SYSTEM JUNCTION BOX to LTV 1 (SCBL27)
1102774	MAIN SYSTEM JUNCTION BOX to LTV 2 (SCBL28)
1102876	RSU to SIDE PLINTH (W1A)
1104510	SIDE PLINTH to DSP (W1B)

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
- 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
- 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 - SYSTEM DIAGRAM CYL-SONIC IND
- E-DWG-0034 - ICIS CONFIG 1 GEN 3 AB (LOAD, DOWN)
- E-DWG-0049 - ICIS CONFIG 2 GEN 3 AB (UP, IN, OUT, DOWN)
- E-DWG-0050 - ICIS CONFIG 3 GEN 3 AB (UP, DOWN)
- E-DWG-0051 - ICIS CONFIG 4 GEN 3 AB (UP, 2 IN, 2 OUT, DOWN)