



PARTS LIST



TP2500

CONQUEST[®] T65-L Long Bed CNC Lathes

EQUIPPED WITH THE
GE FANUC 18T CONTROL

Revised: August 18, 1999

Manual No. PL-76
Part No. PL -0009500-0076

Litho in U.S.A.
July, 1997

TO ORDER REPLACEMENT PARTS

Please provide the following information when ordering replacement parts:

1. The complete machine serial number. The serial number tag is located on the power case door near the main disconnect switch.
2. List the following information:
 - A. Parts List manual number, PL-76.
 - B. Page number.
 - C. Item number.
 - D. Part name.
 - E. Part number.
 - F. Quantity of each part required.
3. Specify how and where to ship.

- NOTE -

Information in this manual is subject to change without notice.

Reproduction of this manual in whole or in part, without written permission of Hardinge Inc., is prohibited.

**Hardinge Inc.
One Hardinge Drive
P.O. Box 1507
Elmira, N.Y. U.S.A. 14902-1507**

Phone: (607) 734-2281 • FAX: (607) 734-8819

www.hardinge.com

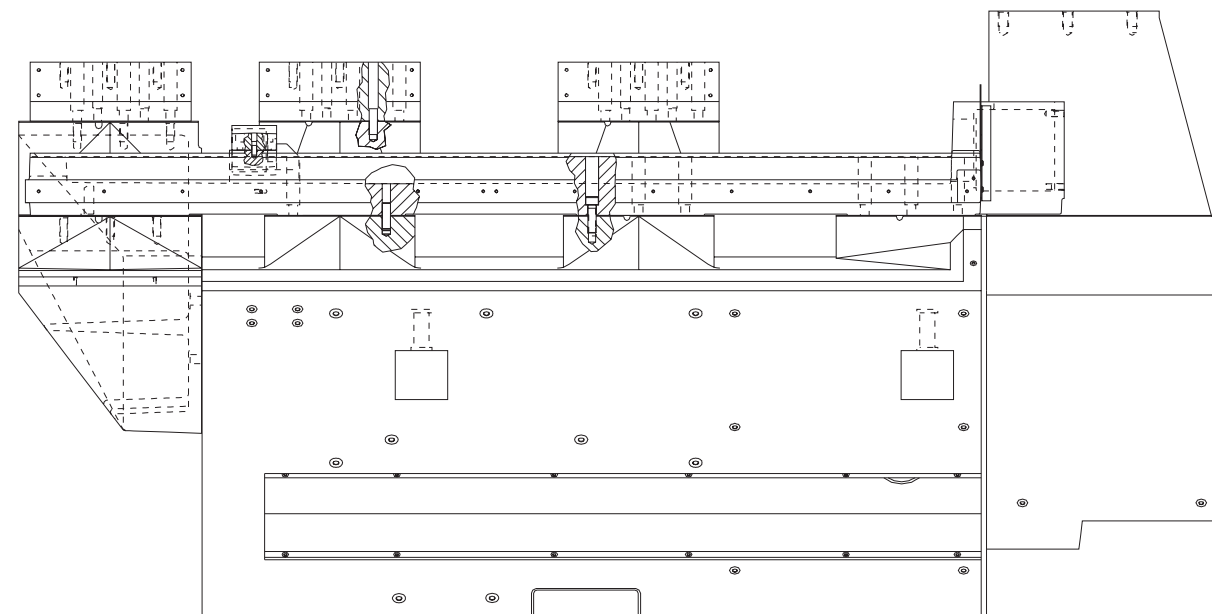
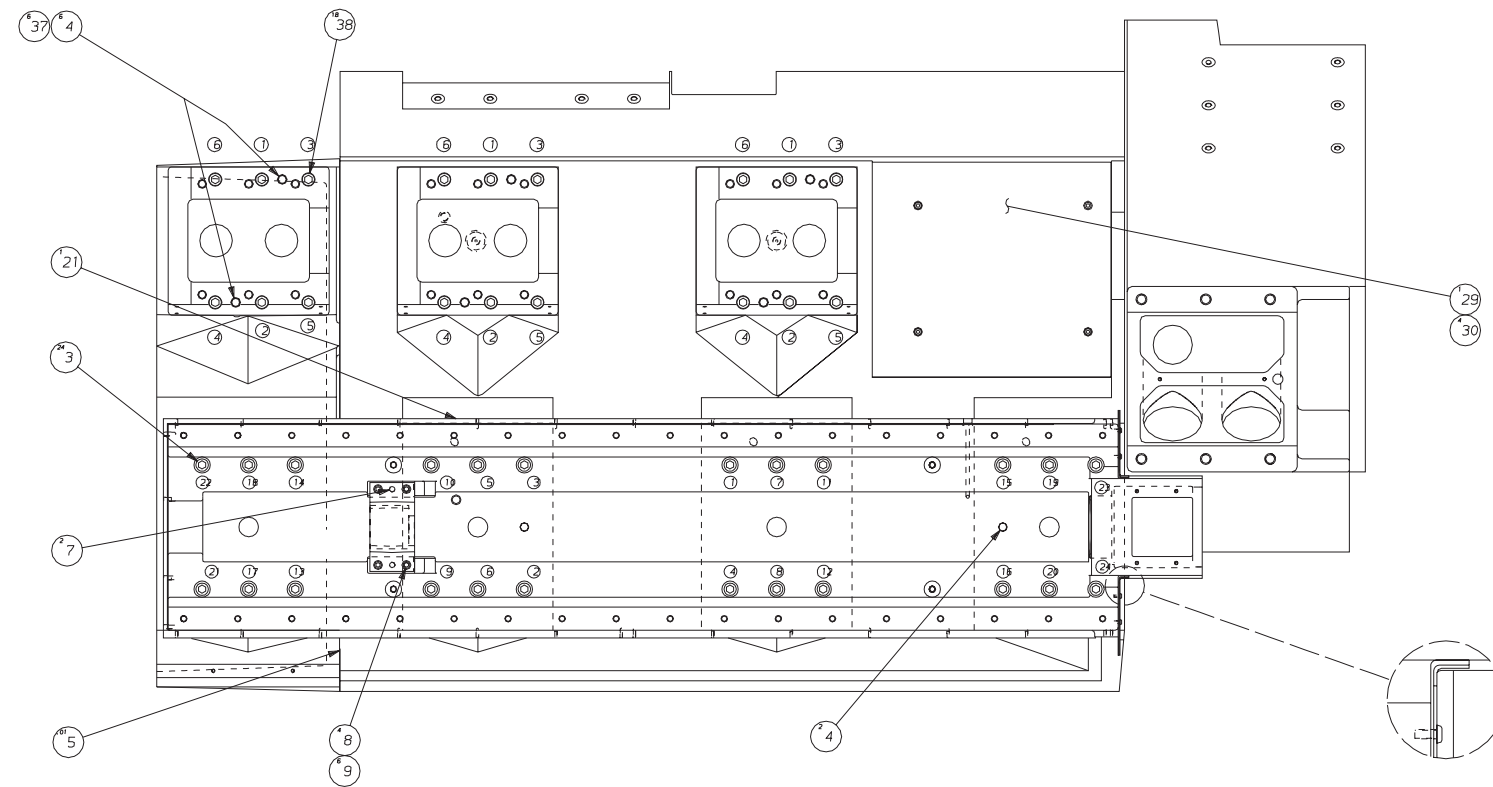
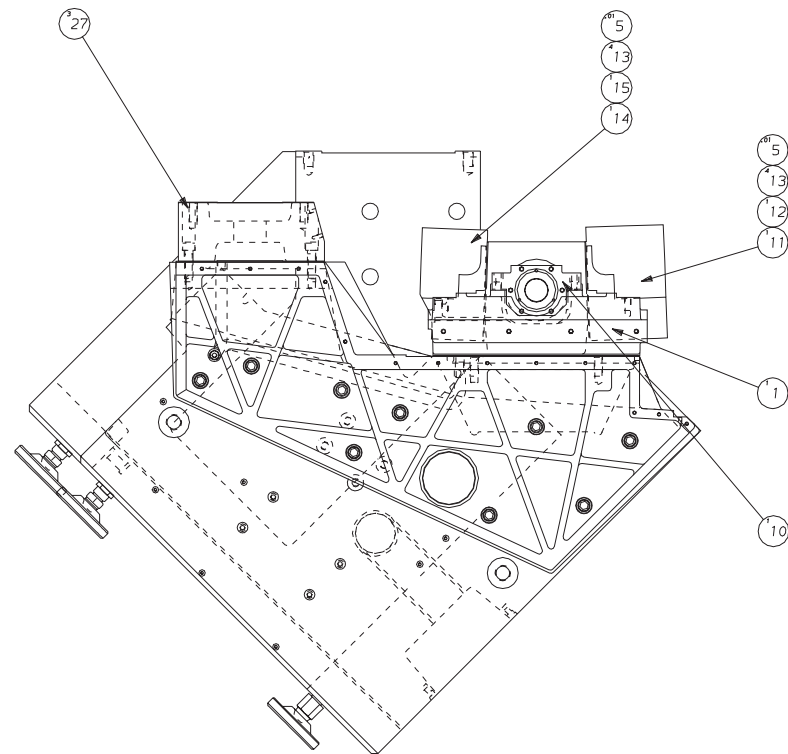
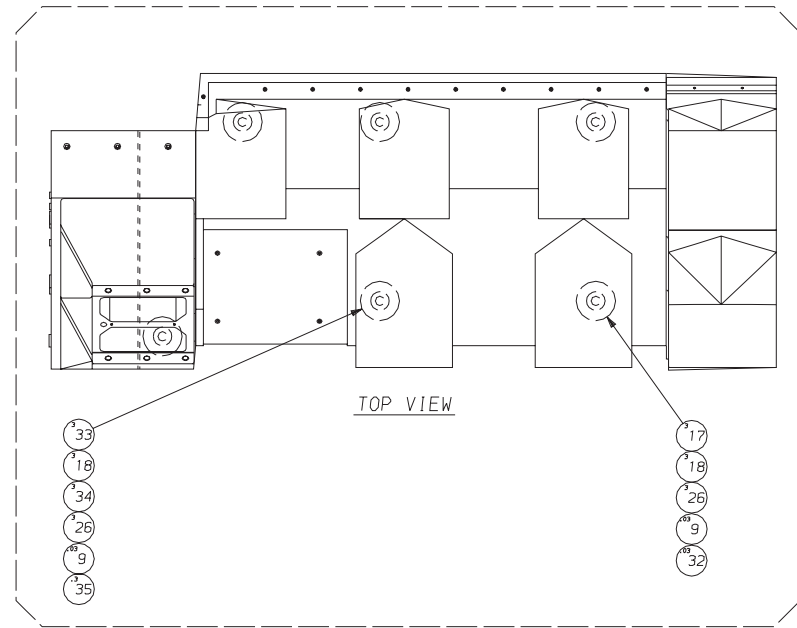
- CONTENTS -

Base Assembly	1 - 3
Button-Up	4 - 8
Carriage/Cross Slide, Z Axis Drive	9 - 15
Collet Closer Assembly	16 - 17
Coolant System	18
Coolant, Thru-Spindle	19
Coolant Guard Assembly	20 - 21
Coolant Tank Assembly	
Chip Conveyor	22 - 24
Standard	25
Filter Enclosure Assembly.	26
Foot Switch Assembly	
Collet Closer	27
Tailstock	28
Headstock Assembly	29 - 30
High Pressure Coolant	31 - 34
Live Tool Drive Assembly	35 - 36
Lubrication System	37
Operator Panel	
CE Mark	38 - 40
Non-CE Mark.	41 - 43
Part Catcher	44 - 48
Pedestal Assembly	49 - 58
Power Case Assembly	
CE Mark	59 - 66
Non-CE Mark.	67 - 74

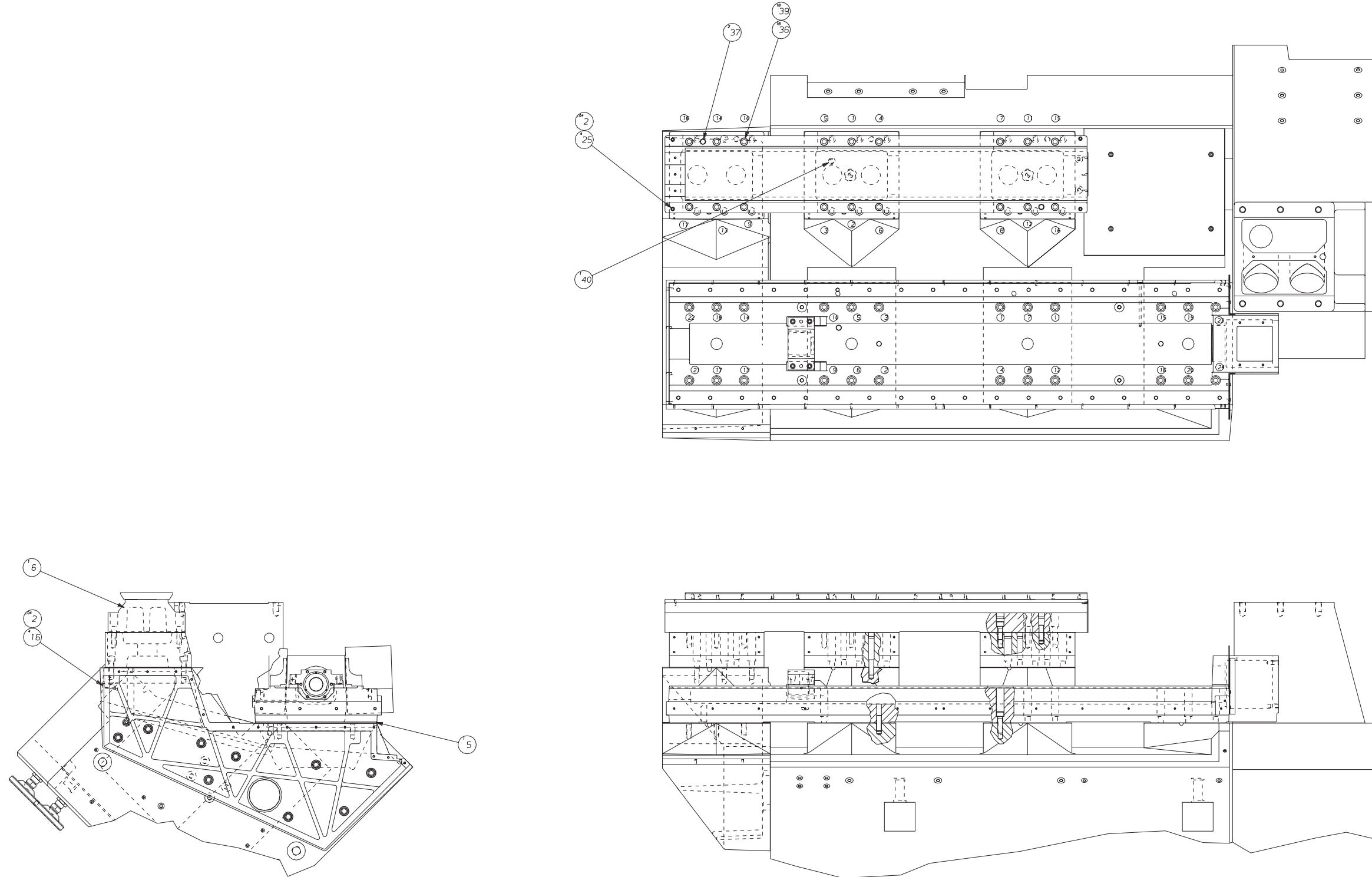
Power Case Enclosure Assembly	
CE Mark	75
Non-CE Mark.	76
Option Panel Assembly, Live Tooling	77
Steady Rest Assembly, 60 mm	78 - 79
Tailstock Assembly	80 - 81
Tailstock Sub-Base Assembly.	82 - 83
Tool Touch Probe Assembly	84 - 85
Turret Assembly	86 - 89
Turret Top Plate	
10 Station, English	90 -91
10 Station, Metric.	92 - 93
12 Station, English	94 - 95
12 Station, Metric.	96 -97
Hydraulic System	
CE Mark	98
Non-CE Mark.	99

- NOTES -

- NOTES -



NAME: BASE ASSEMBLY
PART NUMBER: CL-0000001-LB
SHEET: 1 of 3
REV: B



NAME: BASE ASSEMBLY
PART NUMBER: CL-0000001-LB
SHEET: 2 of 3
REV: B

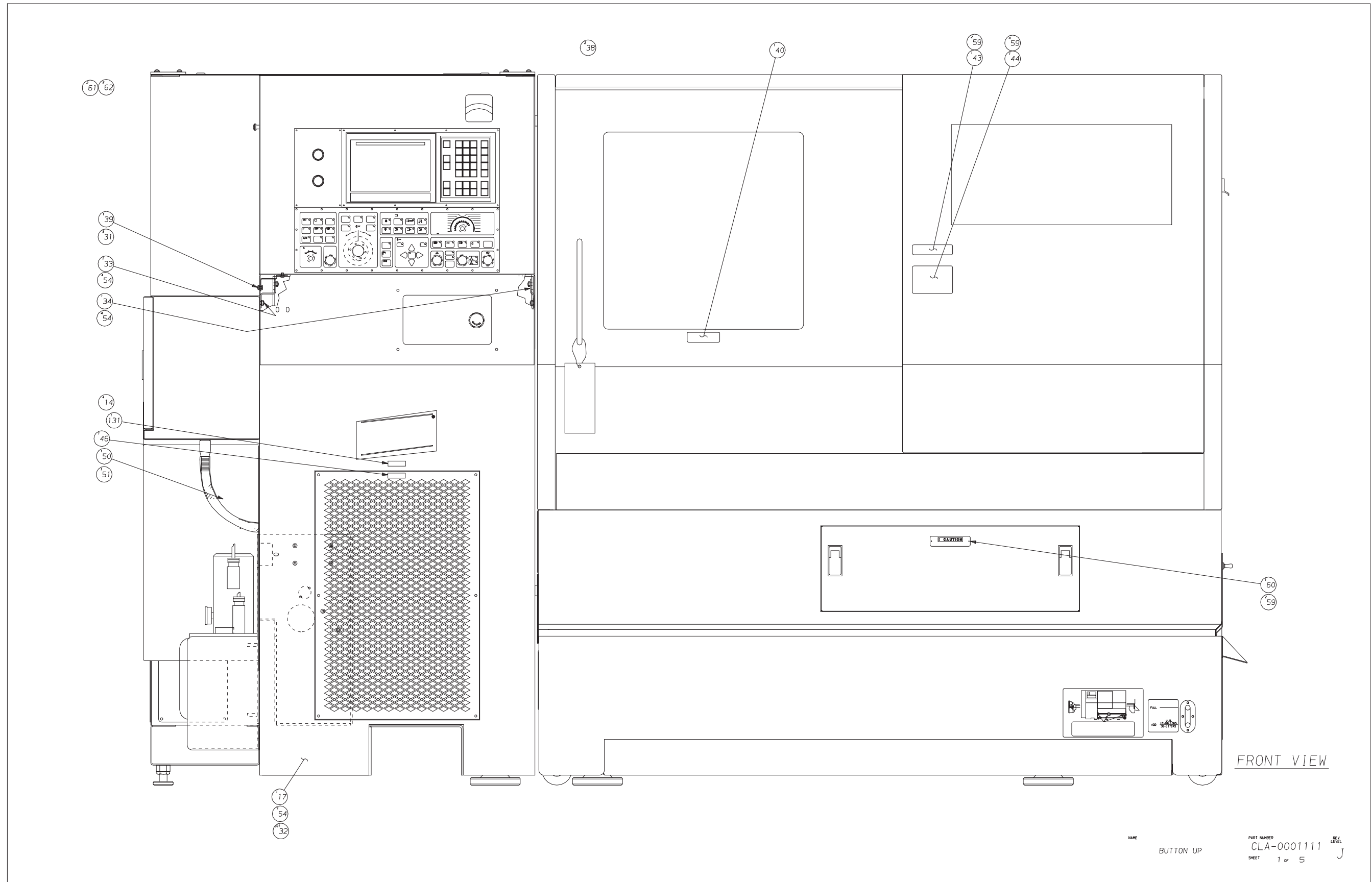
40	375-0001467	1	PIPE PLUG
39	SG-0002840	18	WASHER
38	CL-0007876	18	PLUG, HOLE
37	CL-0007876-01	8	PLUG, HOLE
36	SG-0007876	18	PLUG, HOLE
35	CS-0010994	.3	GREASE
34	CS-0008325	3	NUT, LOCK-ADJ SCREW
33	HG-0009454	3	FOOT, ADJUSTABLE
32	NC-0010884-01	.03	ADHESIVE, LOCTITE #222
30	MS-0303817	4	M8 SCREW, BUTT HD x 16mm
29	CL-0004990-71	1	SHIELD, CHIP
27	CL-0010599-RT	3	RISER BLOCK, TAILSTOCK
26	MS-0104220	6	M12 SCREW, SKHD CP x 30mm
25	MS-0554216	4	M12 SCREW, SOC SET x 12mm
21	S-0010700-09	1	PLUG, LEE
18	CLA-0009455	6	FOOT, BASE
17	CL-0009454	3	FOOT, FIXED
16	MS-0554217	4	M12 SCREW, SOC SET x 16mm
15	CLA-0010116-21	1	GASKET, RIGHT END
14	CL-0001990-94	1	BRACKET, RIGHT
13	MS-0303519	8	M5 SCREW, BUTT HD x 25mm
12	CL-0010116-20LB	1	RUBBER, LEFT
11	CL-0001990-93LB	1	BRACKET, LEFT
10	CL-0011932-LB	1	SUPPORT, BALLSCREW
9	NC-0010884	6.06	ADHESIVE, LOCTITE #242
8	MS-0104020	4	M10 SCREW, SKHD CAP x 30m
7	CS-0004630-03	2	DOWEL, 3/8 PULLOUT
6	CL-0000262-TALB	1	BED ASSEMBLY, TAILSTOCK
5	GE-0010884	1.03	SEALANT
4	CL-0004629	8	PIN, DOWEL PULL-OUT
3	MS-0104625	24	M16 SCREW, SKHD CAP x 55m
2	LT-0010884-5	.08	SEALANT
1	CL-0000262-LB	1	BED, CARRIAGE
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
BASE ASSEMBLY

PART NUMBER
CL-0000001-LB

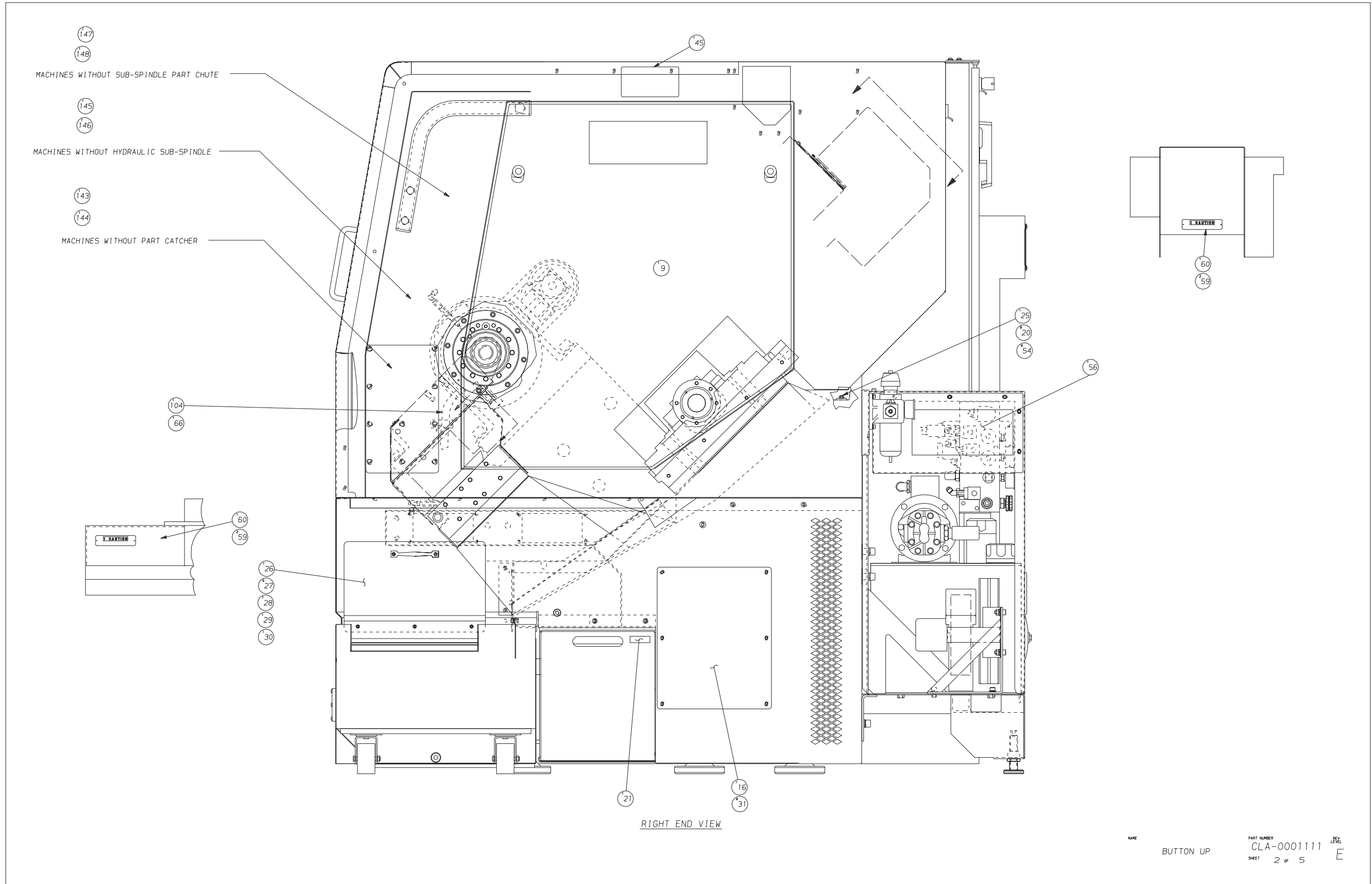
SHEET 3 of 3

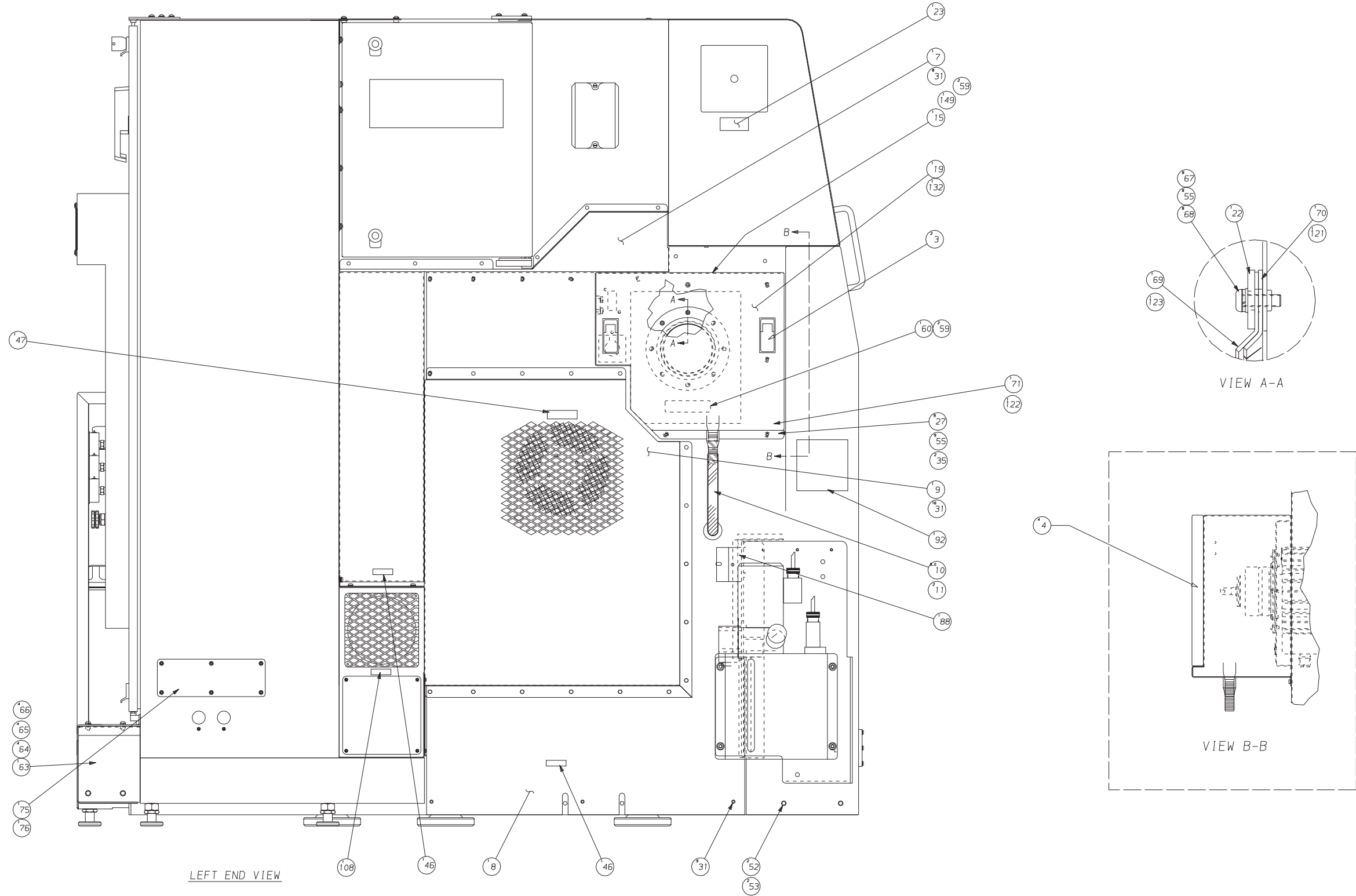
REV
LEVEL
A



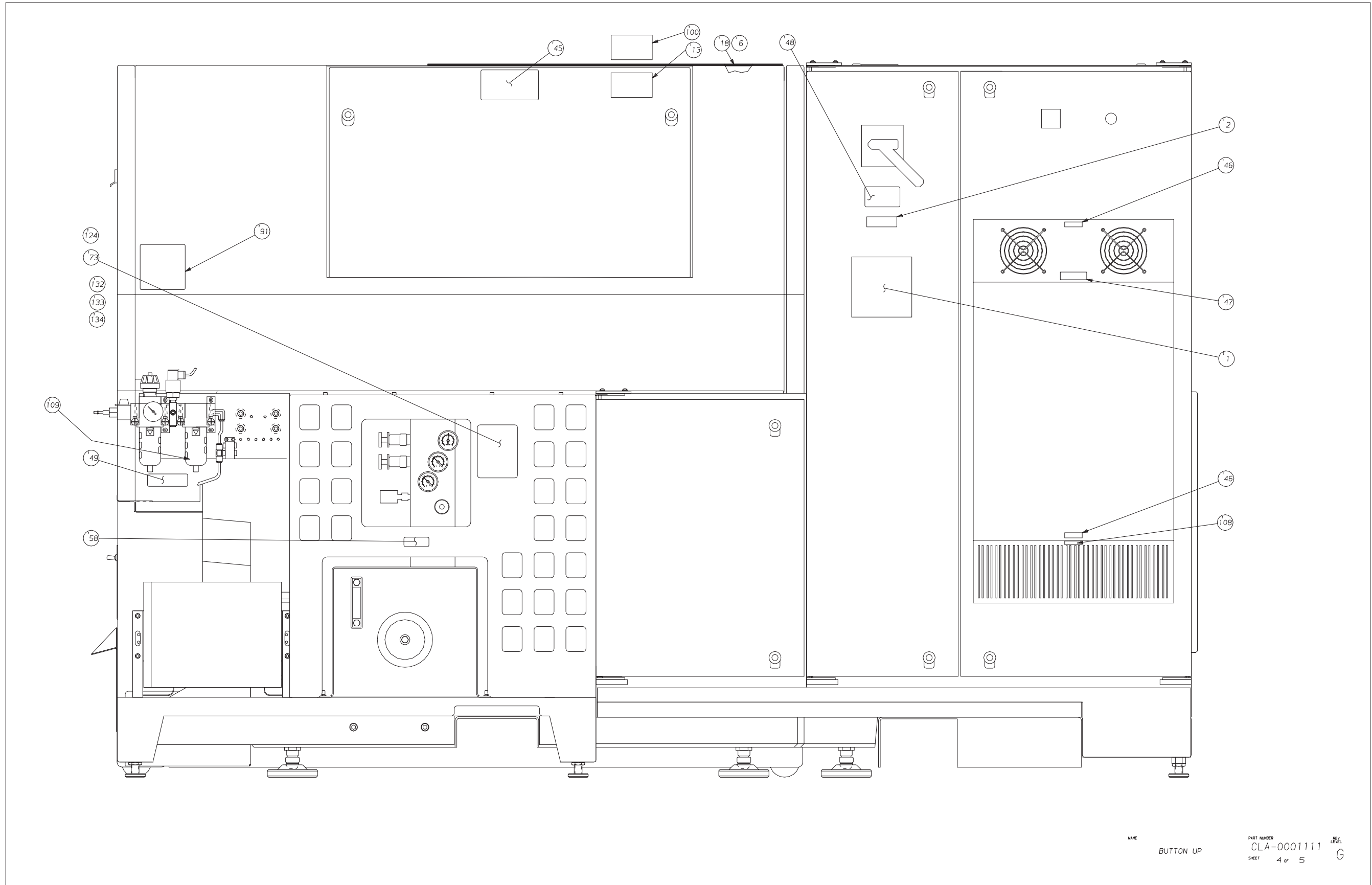
NAME
BUTTON UP

PART NUMBER
CLA-0001111
REV LEVEL
SHEET 1 of 5 J





NAME: BUTTON UP
PART NUMBER: CLA-0001111
SHEET: 3 of 5
REV: T

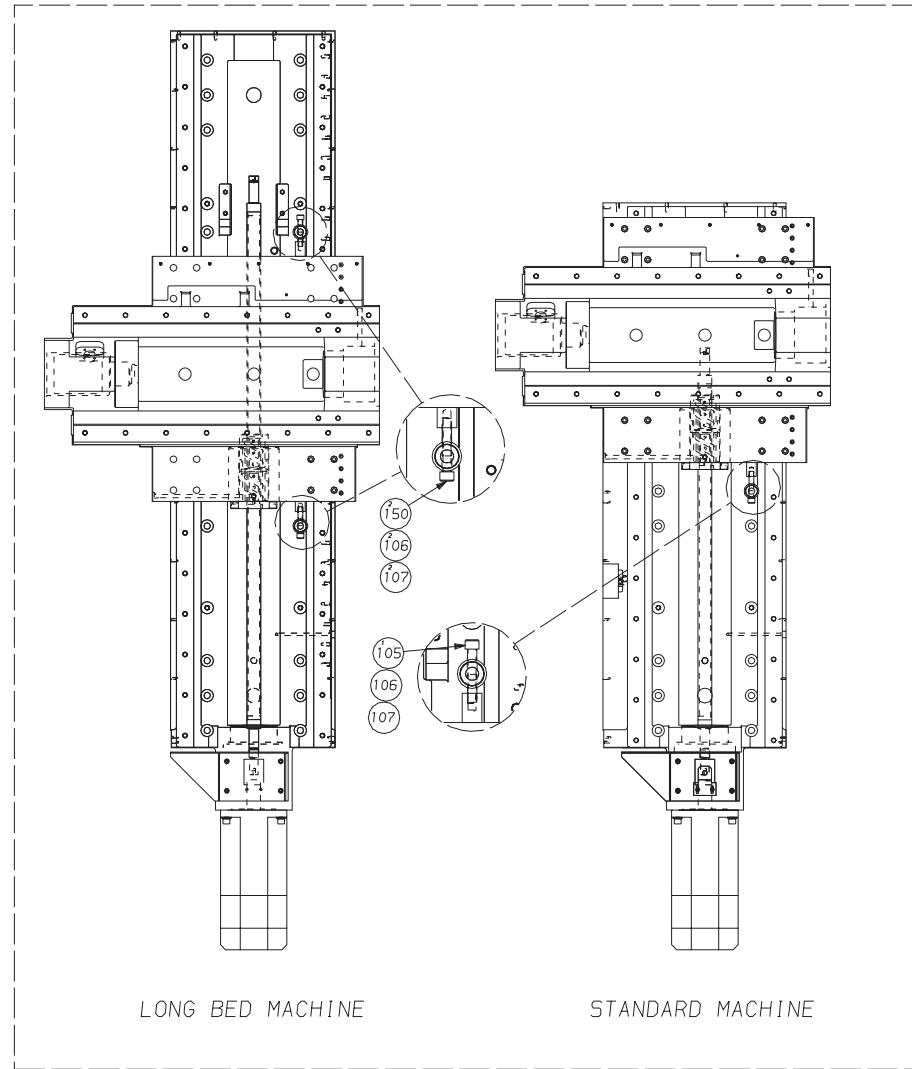


NAME
BUTTON UP

PART NUMBER
CLA-0001111

SHEET
4 of 5

REV
G



LONG BED MACHINE

STANDARD MACHINE

ITEM	PART NUMBER	QTY	DESCRIPTION
150	CL-0010468-LB	2	PIN, CARRIAGE SHIPPING
149	CL-0010302-08CE	1	TAG, DRAW TUBE SCREWS
148	CL-0010116-67	1	GASKET
147	VLA-0010115-LC	1	COVER
146	CL-0010116-L5	1	GASKET
145	CL-0010215-27	1	COVER

144	CL-0010116-51	1	GASKET
143	CL-0010115-96	1	COVER
142	DVB-0009623	3	CLAMP
141	CN-0008104	4	TYRAP
140	HG-0011032-01	60	TERMINAL
139	HG-0011032-02	20	TERMINAL
138	HG-0011032-04	2	TERMINAL
137	HG-0011032-03	7	TERMINAL
136	CL-0011898	3	TAPE
135	CL-0010884-01	.01	ADHESIVE
134	CL-0010366-30	1	TAG, PRESSURE VS FORCE CT
133	CL-0010366-29	1	TAG, PRESSURE VS FORCE CT
132	SG-0010115-A	2	COVER
131	CL-0010366-26	1	LABEL, PATENT NO.
130	CL-0009610-SK	1	REPLACEMENT FUSES - CL
129	H-0009500-0992	1	TAG, ATTENTION OPERATOR
127	AD-0010912	1	OIL
126	AH-0010884-02	1	ADHESIVE
125	ST-0010884	1	ADHESIVE
124	CL-0010366-17	1	TAG, PRESSURE -VS- FORCE
123	CL-0010116-49	1	GASKET, GUARD-BIG BORE COL
122	CL-0002533-B1	1	COOLANT CATCHER WELD ASSY
121	CL-0010449-06	1	GUARD, BIG BORE COLLET CLO
109	CN-0010779-3E	1	ELEMENT, FILTER
108	AD-0011350-01	2	TAG
107	MS-0104228-FT	1	SCREW
106	CL-0007685	1	STOP
105	CL-0010468	1	PIN
104	RH-0009623	1	CLAMP, HOSE
103	CL-0008915-01	1	WORKLIGHT
102	CSA-0010224-01	1	SWITCH
101	HG-0003650-03	1	DESC
100	CS-0010115-80	1	COVER, REAR GUARD (STD)
98	CL-0010302-01	1	TAG
97	MS-0104218	4	SCREW
96	MW-0184210	4	WASHER
92	CLA-0010366-12	1	TAG, LUBE SCHEMATIC
91	CL-0010366-11	1	TAG, PNEUMATIC SCHEMATIC
88	CL-0002990-98	1	BRACKET, LUBE
87	MW-0104010	4	WASHER, M10
86	MS-0104018	4	SCREW, SOC HD CAP M10X1.5X
85	CN-0003623-04	8	WASHER
84	MW-0104210	8	WASHER, M12
83	MS-0104219	4	SCREW, SOC HD CAP M12X1.7
82	RF-0012119-04	8	SCREW, LAG 1/2"x4" LONG
81	RF-0012120	8	SHIELD, EXPANSION
77	MS-0303516	1	SCREW
76	CLA-0010116-12	1	GASKET
75	CL-0010115-23	1	COVER
74	CL-0010366-12	1	TAG
73	CLB-0010366-09	1	TAG, COLLET CLSR-TAILSTOC
71	CL-0002533-WA	1	ASSEMBLY COOLANT CATCHER
70	CL-0010449-05	1	GUARD, COLLET CLOSER
69	CLA-0010449-04	1	GASKET, GUARD COLLET CLOS
68	MW-0103510	8	M5 WASHER, FLAT
67	MS-0303517	8	M5 SCREW, BT HD x 16mm
66	MW-0103610	5	WASHER

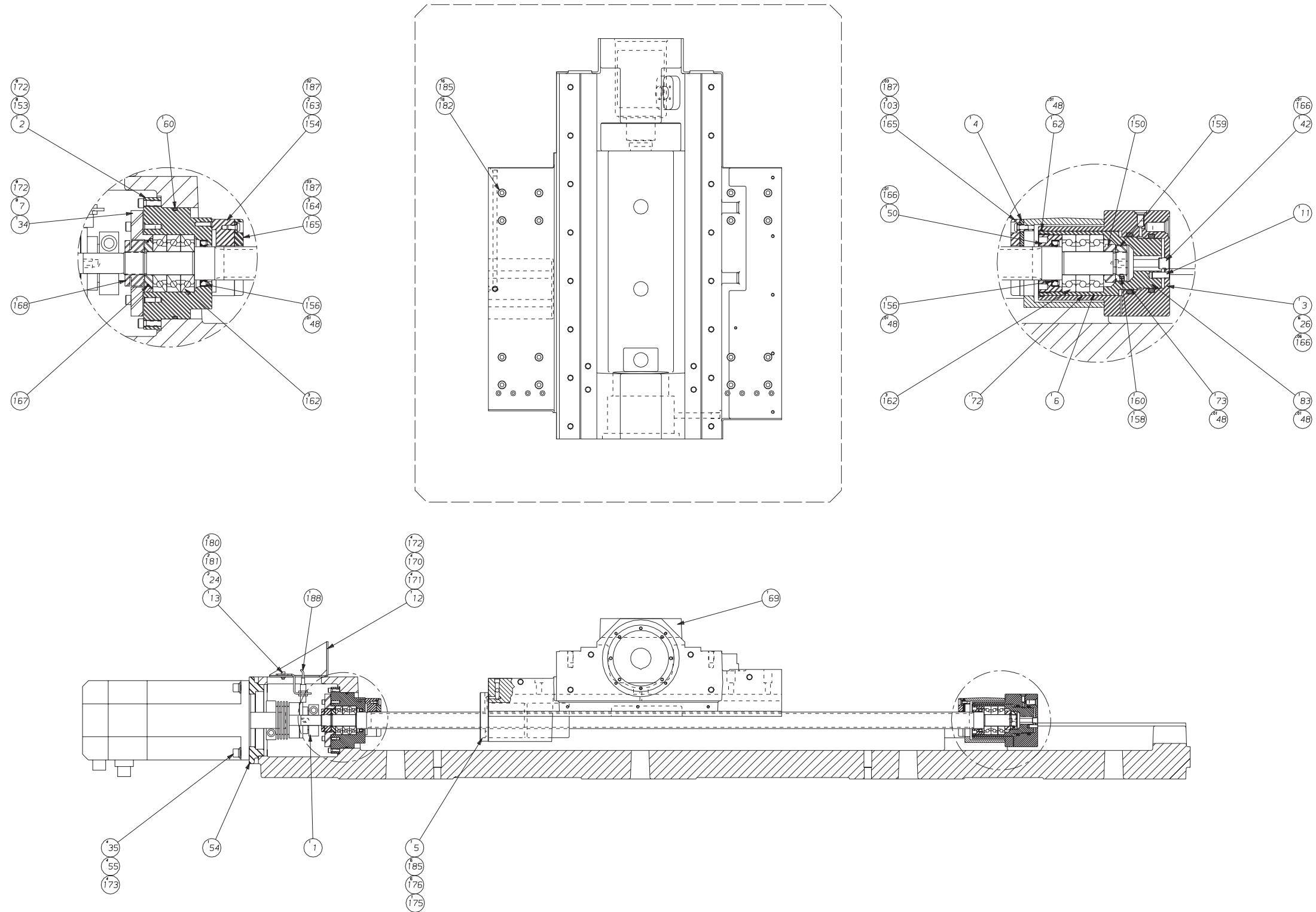


65	MW-0183610	4	LOCKWASHER
64	MS-0303617	4	SCREW
63	CL-0010115-73	1	COVER, HYD. LINES END
62	CS-0011255-L	2	LABEL DISKETTE
61	CS-0011255-01	2	DISKETTE
60	CS-0010302-02	4	TAG, CAUTION PINCH POINT
59	R-0008044	16	PIN, ESCUTCHEON
58	ADA-0010522	1	OIL SPECIFICATION LABEL
56	CL-0010366-10	1	TAG, HYDRAULIC CONTROL VA
55	MW-0183510	17	WASHER, LOCK REGULAR M5
54	MN-0283610	24	NUT, FLANGED M6
53	MW-0103810	2	WASHER, FLAT REG M8
52	MS-0303815	2	SCREW, BT HD M8 X 1.25 X
51	CLB-0010522-02CE	1	TAG, LUBRICATION INSTRUCT
50	CS-0010522-04	1	TAG, ID
49	CS-0010302-07	1	TAG - CAUTION DRAIN FILTE
48	CSA-0010302-03	1	TAG - CAUTION ELECTRICAL
47	CC-0010302-01	2	TAG, FAN WARNING
46	CC-0010302-02	5	TAG - AIR INLET
45	CS-0010302-01	2	TAG, CAUTION-ACCESS COVER
44	CS-0010302-08	1	TAG, WARNING
43	CN-0010302-01	1	TAG, WARNING
40	CS-0010302-W	1	TAG, CAUTION WINDOW
39	HG-0010598	1	HANGER, COVER
38	0300512	2	SCREW
35	CL-0000334	2	NUT, BUSHING
34	CL-0001990-83	1	BRACKET, RIGHT
33	CL-0001990-82	1	BRACKET, LEFT
32	NC-0010884	.01	LOCTITE #242
31	MS-0303615	42	SCREW, BT HD M6 X 1.0 X 1
30	CSA-0002990-82	1	RETAINER, SPLASH STRIP
29	CS-0009976	1	STRIP, SPLASH
28	CG-0010642	1	HANDLE
27	MS-0303515	14	SCREW, BT HD M5 X 0.8 X 1
26	CSB-0002990-77	1	COVER, SKIRT
25	CL-0002990-07	1	PLATE, CLAMPING
23	CS-0010302-R2	1	TAG, RS232
22	CL-0002990-20	1	RETAINER, SPLASH (COOLANT
21	CS-0010522	1	TAG, LUBRICATION
20	MS-0573620	9	SCREW, SOCKET SET
19	CLA-0010115-34	1	COVER, COOLANT CATCHER
18	CL-0010116-16	1	GASKET, REAR GUARD
17	CLA-0000221-LE	1	LEFT END WELD ASSEMBLY
16	HG-0010115-21	1	COVER, PUMP
15	SB-0010302-06	1	TAG, WARNING BAR STOCK
14	CN-0007707	4	NUT
13	CL-0010115-36	1	COVER, REAR DOOR
11	CC-0006966	2	CLAMP, HOSE
10	7500006965FG	3	HOSE, 3/4" FLEXIBLE
9	PART NO.	2	DESC
8	CLA-0000221-MC	1	COVER, MOTOR COMP. WELD A
7	CLB-0001990-77	1	TOP, LEFT END MOTOR APRON
6	CL-0010116-33	1	GASKET, REAR GUARD INNER
4	CN-0011198-01	4	SEAL, OIL
3	CN-0010116-62	2	GASKET
2	CN-0001535	1	PLATE, SERIAL NO.
1	CL-0008074	1	TAG, DATA PLATE

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

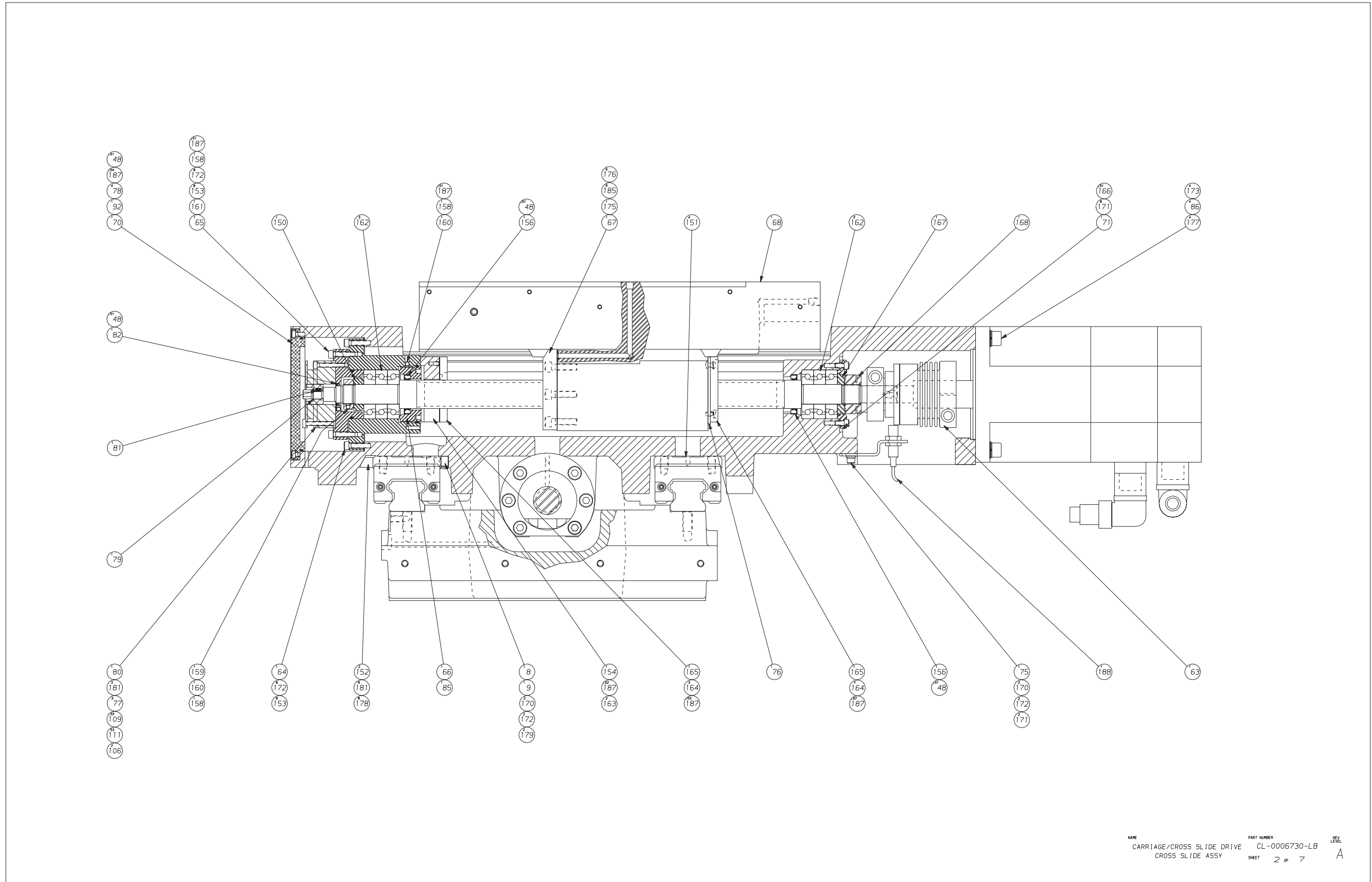
NAME
BUTTON UP

PART NUMBER
CLA-0001111
SHEET 5 of 5
REV
G



NAME: CARRIAGE/CROSS SLIDE DRIVE
 PART NUMBER: CL-0006730-LB
 Z-AXIS DRIVE ASSEMBLY
 SHEET 1 OF 7
 REV LEVEL: B

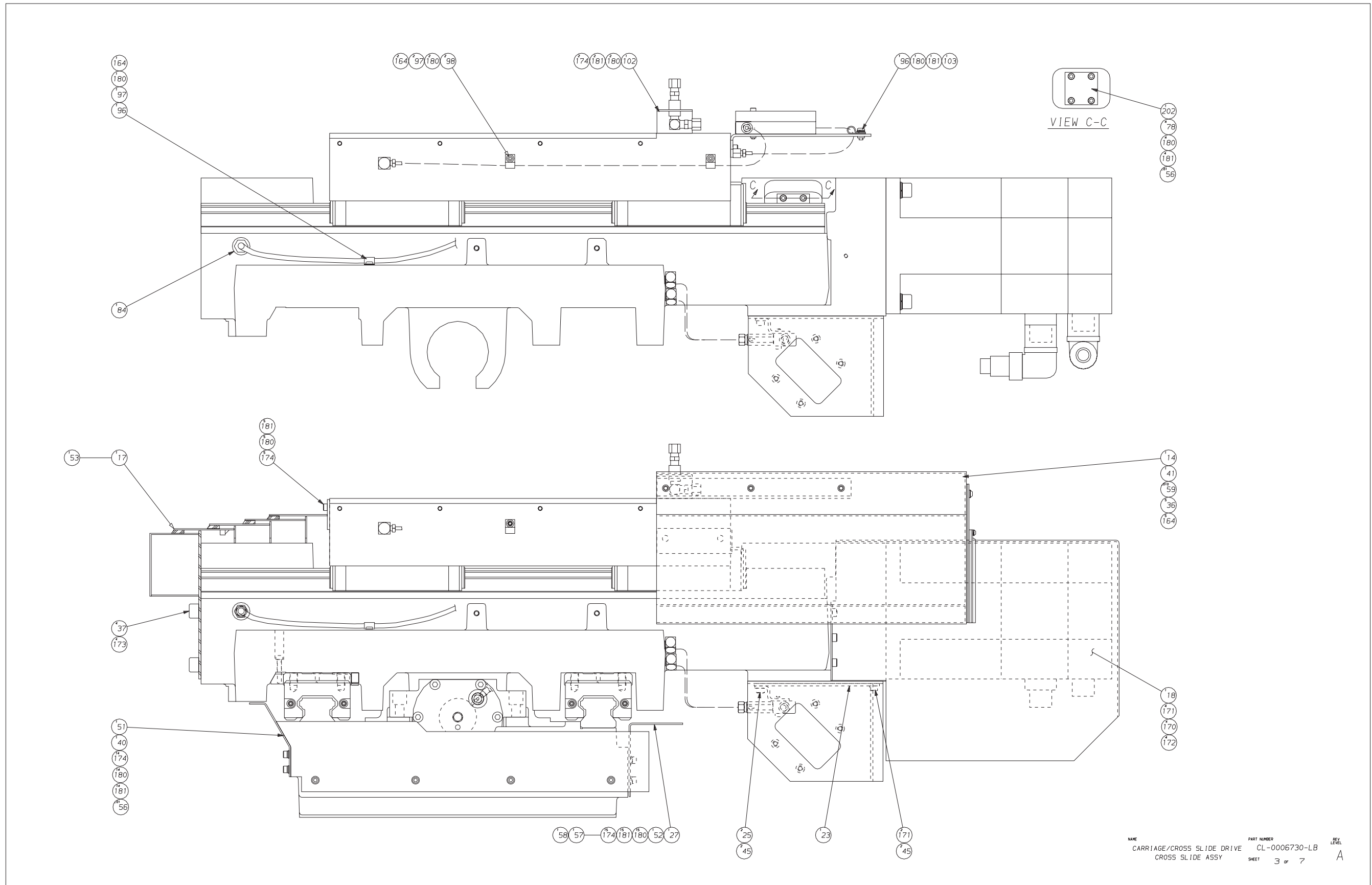
Carriage/Cross Slide, Z Axis Drive



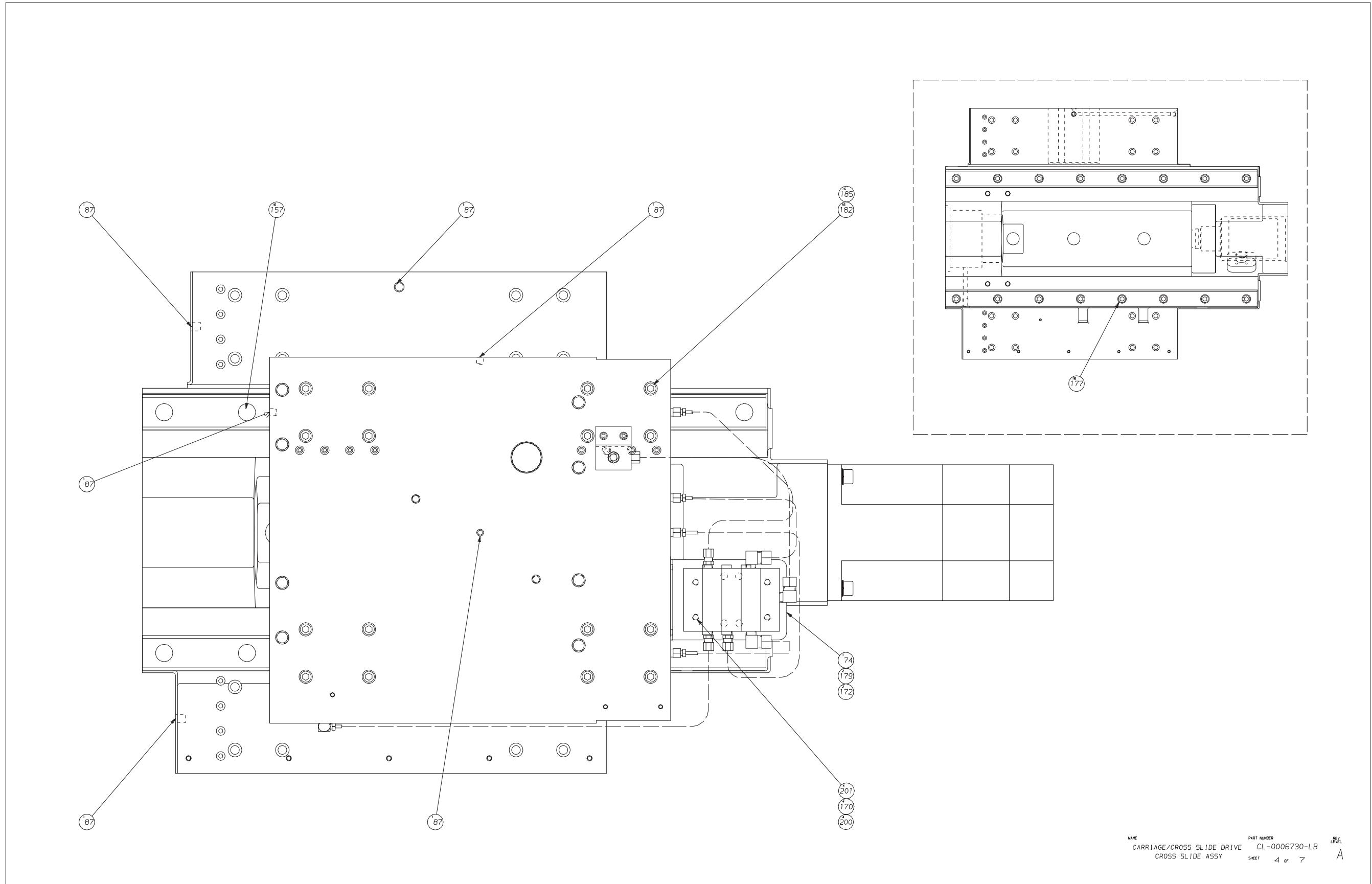
NAME
CARRIAGE/CROSS SLIDE DRIVE
CROSS SLIDE ASSY

PART NUMBER
CL-0006730-LB
SHEET 2 of 7

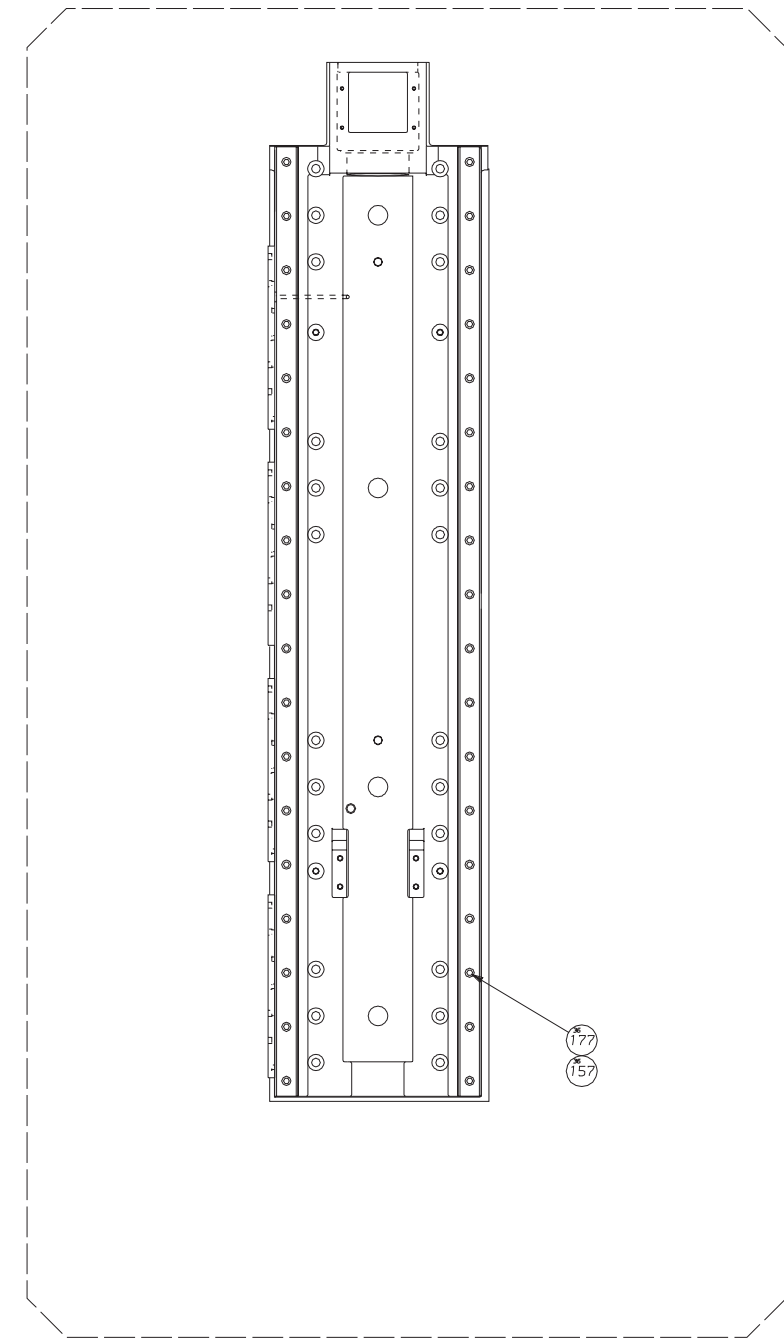
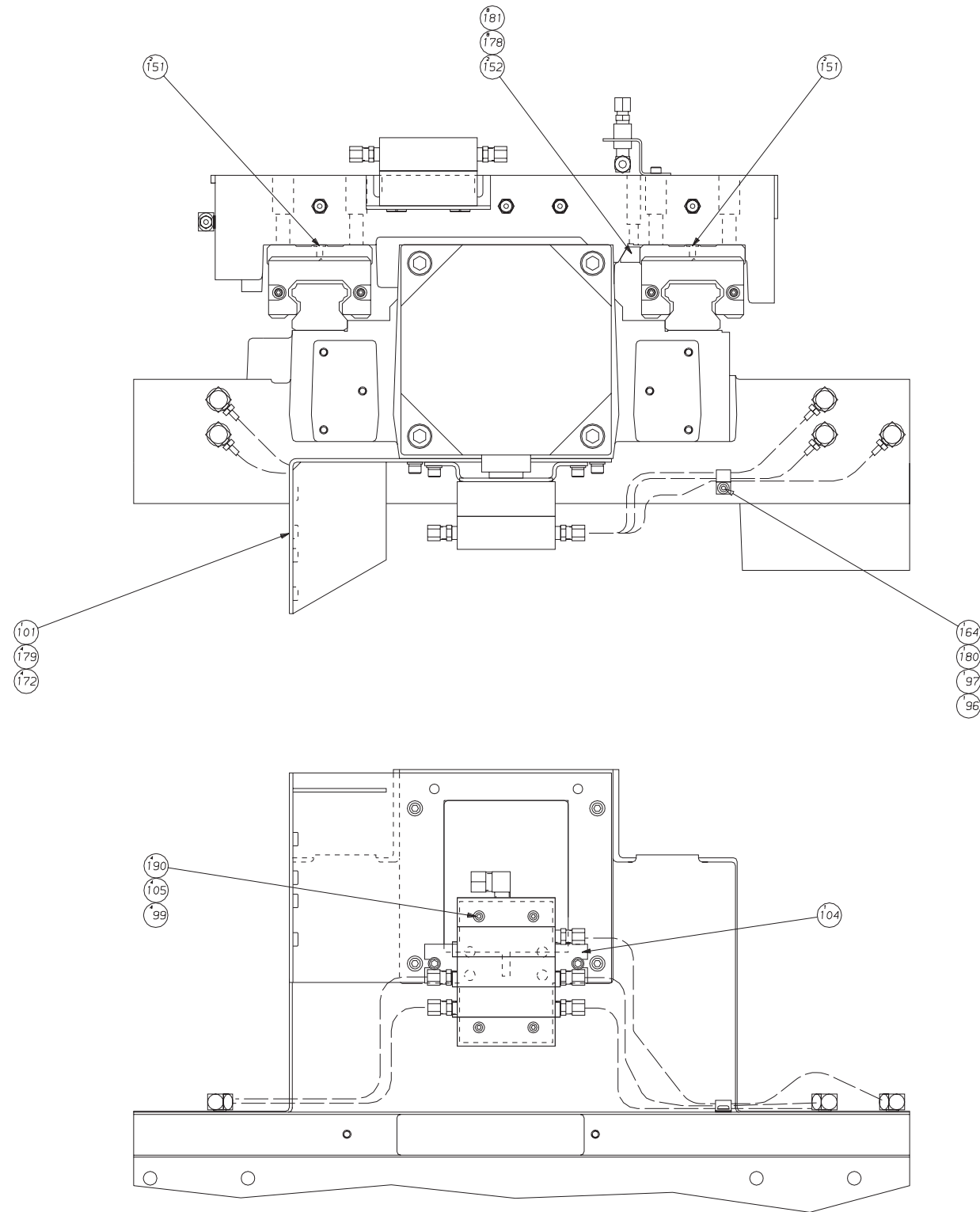
REV LEVEL
A



Carriage/Cross Slide, Z Axis Drive

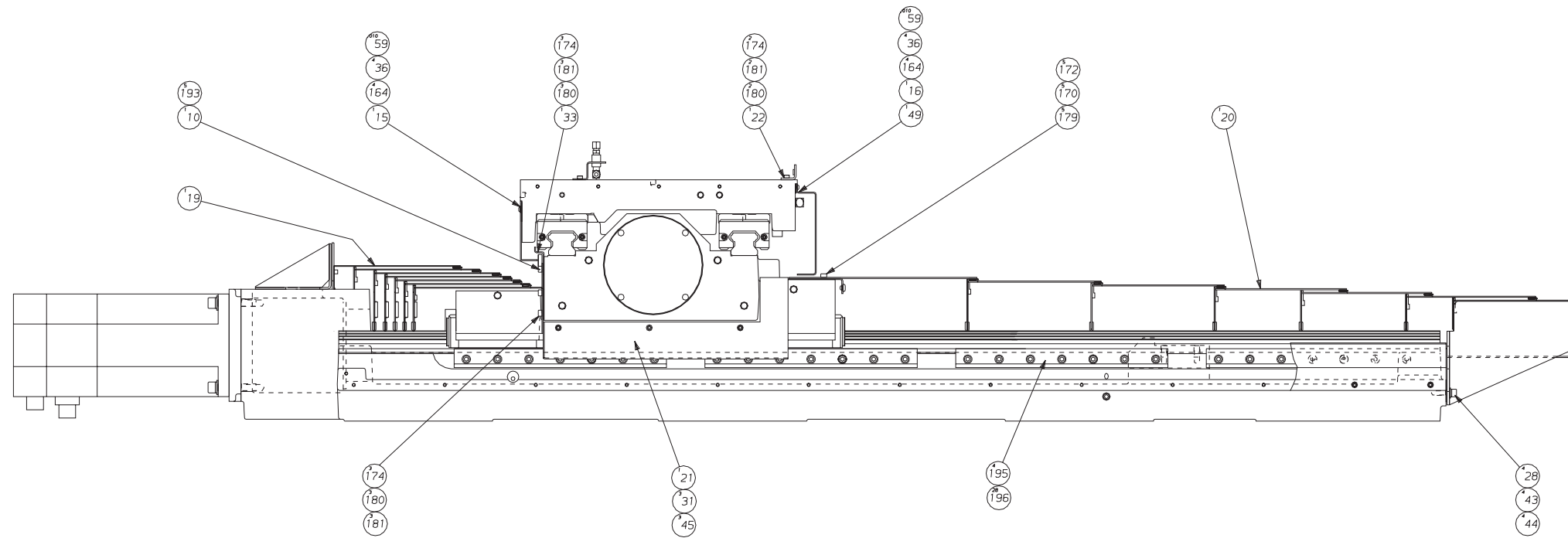


NAME: CARRIAGE/CROSS SLIDE DRIVE
PART NUMBER: CL-0006730-LB
CROSS SLIDE ASSY SHEET 4 OF 7
REV: A



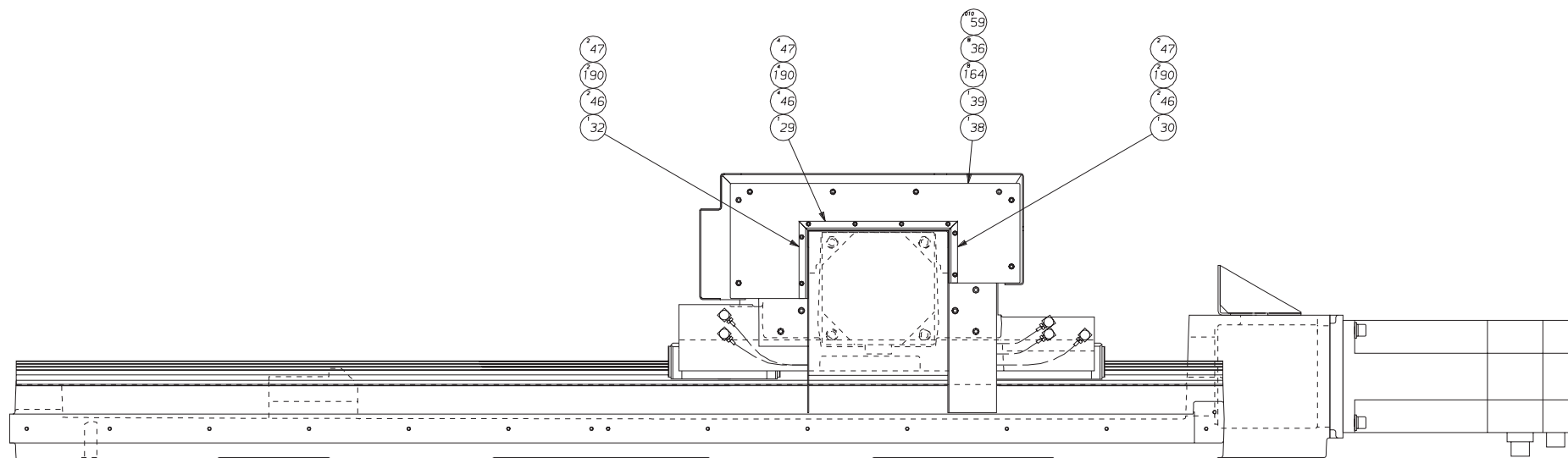
NAME: CARRIAGE/CROSS SLIDE DRIVE
PART NUMBER: CL-0006730-LB
SHEET: 5 of 7
REV: A

Carriage/Cross Slide, Z Axis Drive



FRONT VIEW

REAR VIEW



NAME: CARRIAGE/CROSS SLIDE DRIVE
FRONT AND REAR VIEWS
PART NUMBER: CL-0006730-LB
SHEET: 6 OF 7
REV: A

202	CL-0010115-G	1	COVER, SWITCH OPENING
201	MS-0103622	4	M6 SCREW, SHCS x 40mm
200	MW-0183610	4	M6 WASHER, LOCK
196	MS-0103818	28	M8 SCREW, SHCS x 20mm
195	SG-0006481-C1	4	CLAMP, LINEAR GUIDE
193	MS-0313517	5	M5 SCREW, FHSS x 16mm
190	MW-0103410	12	M4 WASHER, FLAT
188	SGA-0010224-04	2	SWITCH, PROXIMITY
187	NC-0010884-01	.26	LOCTITE 222
186	CK-0009188-20	2	FERRULES, 20 AWG
185	MW-0194010	44	M10 WASHER, LOCK
184	LOA-0002415	1	LAYOUT, CABLE MARKERS
183	F3-0009977	4	CODE MARKER F3
182	MS-0104022	32	M10 SCREW, SHCS x 40mm
181	MW-0193510	70	M5 WASHER, LOCK
180	MW-0103510	55	M5 WASHER, FLAT
179	MS-0103616	13	M6 SCREW, SHCS x 12mm
178	MS-0103520	16	M5 SCREW, SHCS x 30mm
177	MS-0104222	56	M12 SCREW, SHCS x 40mm
176	MS-0104019	12	M10 SCREW, SHCS x 25mm
175	6-0009431	2	O-RING
174	MS-0103517	44	M5 SCREW, SHCS x 16mm
173	MW-0194210	12	M12 WASHER, LOCK
172	MW-0193610	55	M6 WASHER, LOCK
171	MS-0103617	20	M6 SCREW, SHCS x 16mm
170	MW-0103610	21	M6 WASHER, FLAT
168	CSA-0000492	2	NUT, ADJUSTABLE SPIETH
167	CS-0011198-14	2	SEAL, LABYRINTH
166	NC-0010884	.08	LOCTITE 242
165	CSA-0011976	4	BUMPER
164	MS-0303515	38	M5 SCREW, BHSS x 10mm
ITEM	PART NUMBER	QTY	DESCRIPTION

163	MS-0103519	4	M5 SCREW, SHCS x 25mm
162	CSA-0004140	12	BEARING, BALL
161	CS-0009431-01	1	O-RING
160	CH-0004732	3	PLUG, BRASS
159	CS-0000260-05	2	NUT, LOCK
158	MS-0553512	4	M5 SCREW, SHSS x 5mm
157	CL-0010331	52	PLUG, RAIL
156	CL-0011198-02	4	SEAL, BEARING
154	CSB-0011976-02	2	STOP, Z AXIS (AFT)
153	MS-0103620	24	M6 SCREW, SHCS x 30mm
152	CL-0006481	4	GIB, TAKE UP
151	OR-0000406	8	O-RING
150	CL-0010828-01	2	SPACER
111	18A-0003011-03	53	CABLE-18GA-3 COND
110	LOA-0002542	1	INSTRUCTIONS, CROSS SLIDE
109	NC-0010473-06	.33	HEAT SHRINKABLE TUBING
106	RAA-0009188-21	2	BUTTSPLICE
105	MW-0193410	4	M4 WASHER, LOCK
104	CL-0003990-85	1	BRACKET, LUBE BLOCK CARR
103	MS-0303516	4	M5 SCREW, BHSS x 12mm
102	CL-0002990-34	1	BRACKET, LUBE LINE
101	CL-0010115-BCC	1	BRACKET, CABLE CARRIER
99	MS-0103419	4	M4 SCREW, SHCS x 25mm
98	CH-0009623-01	2	CLAMP, 1/4
97	MW-0183510	4	M5 WASHER, LOCK
96	CH-0009623-02	3	CLAMP, 5/16
92	OR-0008891	1	O-RING
87	S-0010700-09	6	LEE PLUG
86	CL-0002840-01	4	M12 WASHER, FLAT HARDENED
85	OR-0004346	1	O-RING
84	CS-0009207-03	1	CORD GRIP, STR.
83	OR-0003440	1	O-RING 2-1/8ID x 2-1/2OD
82	CS-0009431-02	1	SEAL
81	CS-0002022	1	KEY (BRAKE HUB)
80	CL-0010462-0301	1	BRAKE, X AXIS
79	CS-0008231-02	1	RING, RETAINING BRAKE
78	MS-0103516	8	M5 SCREW, SHCS x 12mm
77	MS-0103521	3	M5 SCREW, SHCS x 35mm
76	CL-0001990-23	1	MOUNT, X AXIS BUMPER
75	SG-0010215-08	1	BRACKET, X TORQUE LIMIT S
74	CL-0003990-84	1	BRACKET, CROSS SLIDE LUBE
73	OR-0003642	1	O-RING 2-1/4ID x 2-5/8OD
72	VS-0010440	.1	ANTI-SIEZE
71	CSA-0011137	1	RETAINER, BEARING
70	CL-0010115-09	1	COVER, X BRAKE
69	CL-0000371-LB	1	CARRIAGE, LONG BED
68	CLA-0007202	1	CROSS SLIDE
67	CL-0001902-01	1	BALL SCREW, X-AXIS
66	CL-0001799-02	1	NUT, BEARING
65	CL-0011137	1	RETAINER, BEARING
64	CL-0011176	1	HOUSING, BEARING
63	VL-0012128-01	1	TORQUE LIMITER, X AXIS
62	OR-0004446	1	O-RING
61	LO-0002543	1	INSTRUCTIONS, CARR. ASSY.
60	OR-0007276	1	SEALS
59	3-0010884-01	.04	ADHESIVE
58	CL-0010116-FR1	1	GASKET, REAR LABYRINTH
ITEM	PART NUMBER	QTY	DESCRIPTION

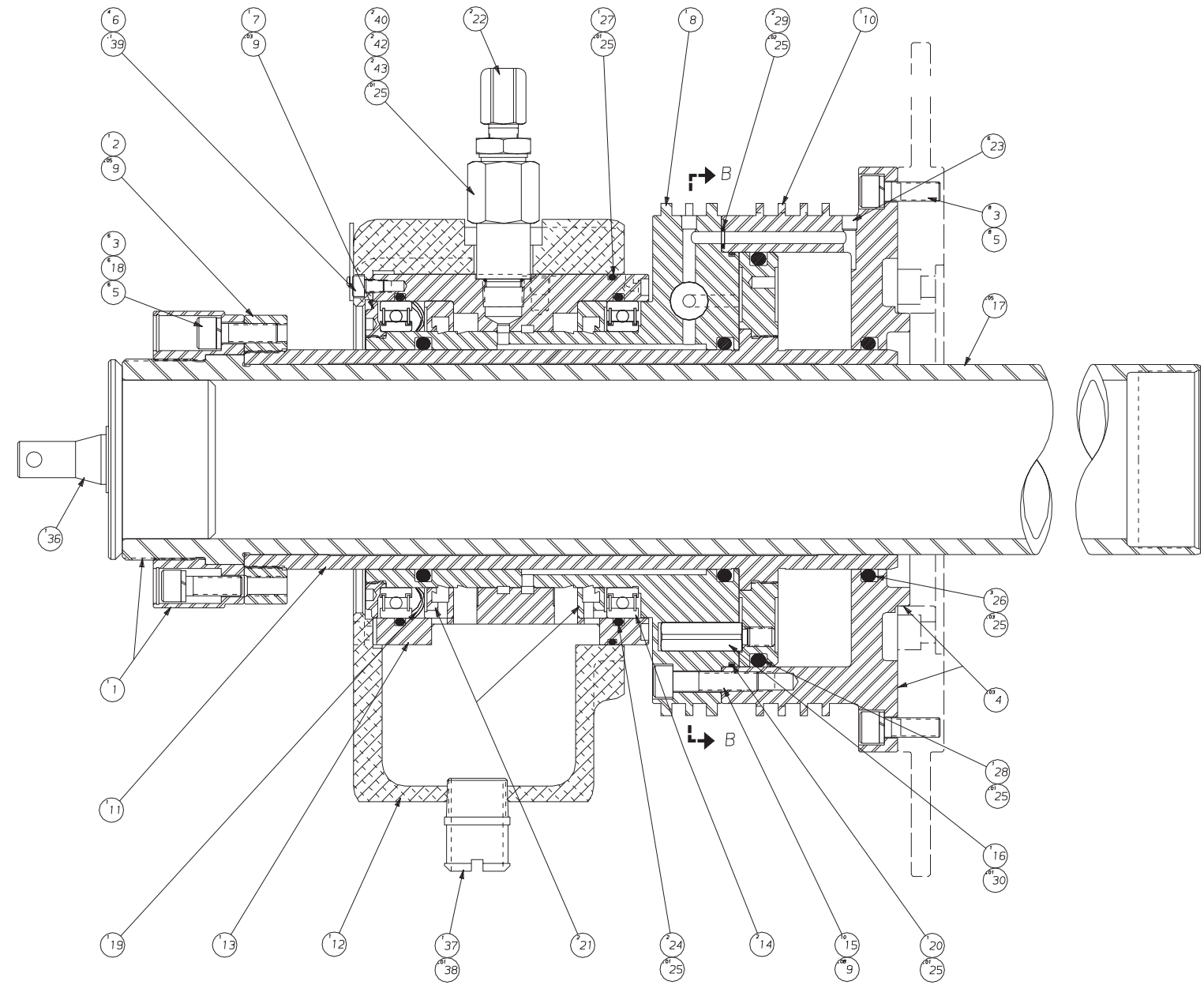
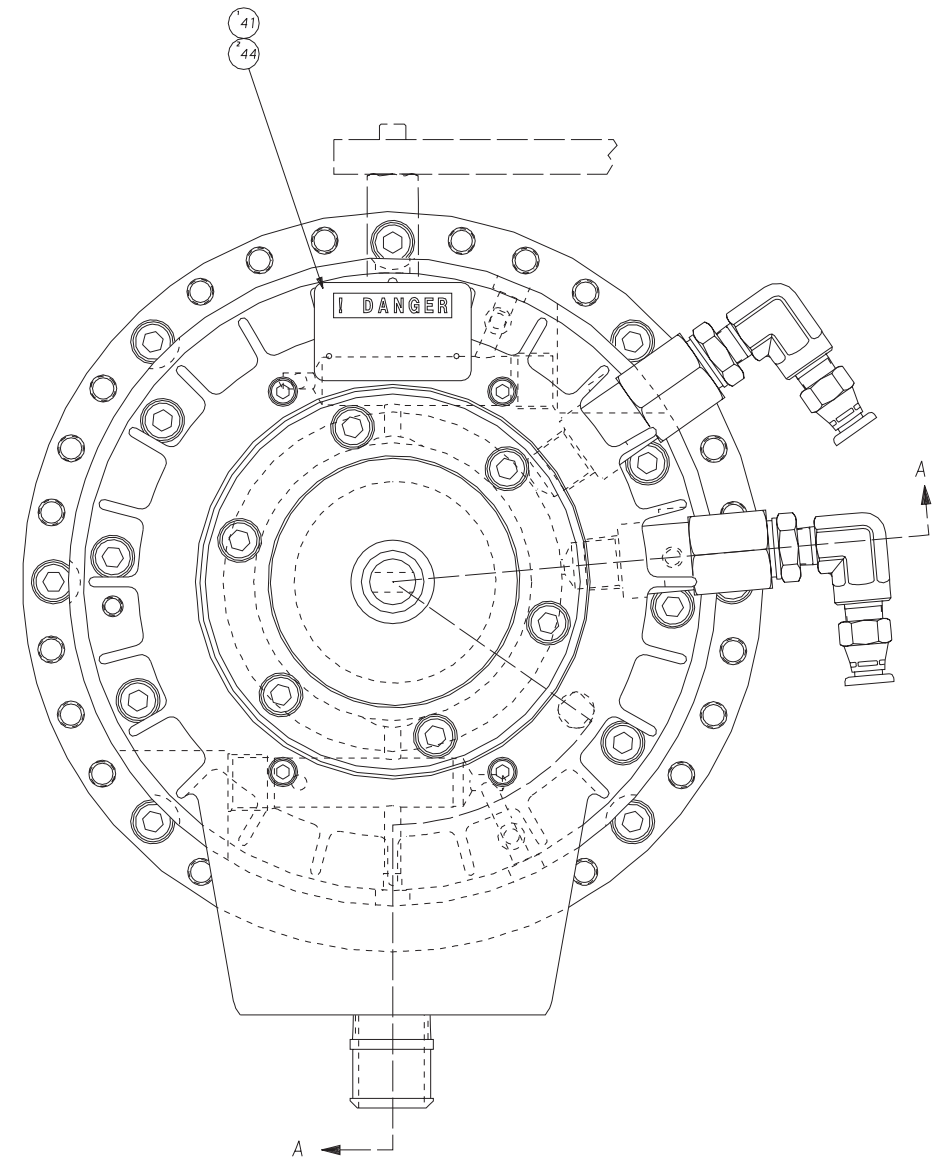
57	CL-0011198-ZR1	1	LABYRINTH, REAR Z COVER
56	GE-0010884	.02	SILICONE
55	MW-0104210	4	M12 WASHER, FLAT
54	CSB-0010421-01	1	PLATE, MOTOR MOUNT Z-AXIS
53	CL-0010115-XA	6	WAY COVER, X AXIS
52	CL-0010116-FR	1	GASKET, REAR LABYRINTH
51	CL-0011198-ZFA	1	LABYRINTH ASSEMBLY
50	CL-0001799-LB	1	RETAINER, BEARING
49	CL-0010116-03	1	GASKET
48	CS-0010994	8.999999999999999	BRACE
47	MW-0183410	8	M4 WASHER, LOCK
46	MS-0303416	8	M4 SCREW, BHSS x 12mm
45	MW-0263610	7	M6 WASHER, STAR
44	MW-0193810	4	M8 WASHER, LOCK
43	MW-0103810	4	M8 WASHER, FLAT
42	MS-0554216	1	M12 SCREW, SSFP x 12mm
41	CL-0010116-22	1	GASKET
40	CL-0010116-FL	1	GASKET, LABYRINTH FRONT
39	CL-0010116-04	1	GASKET, WIPER COVER
38	CL-0010115-13	1	COVER, X MOTOR WIPER
37	MS-0104218	4	M12 SCREW, SHCS x 20mm
36	MW-0263510	21	M5 WASHER, STAR
35	MS-0104226	4	M12 SCREW, SHCS x 60mm
34	CL-0011137-01	1	RETAINER, BEARING
33	CL-0011198-X	1	LABYRINTH, X WAY COVER
32	CL-0008050-02	1	WIPER
31	MS-0303616	3	M6 SCREW, BHSS x 12mm
30	CL-0008050-01	1	WIPER
29	CL-0008050	1	WIPER
28	MS-0103817	4	M8 SCREW, SHCS x 16mm
27	CL-0011198-ZR	1	LABYRINTH, REAR Z COVER
26	MS-0103831	6	M8 SCREW, SHCS x 90mm
25	MS-0103618	2	M6 SCREW, SHCS x 20mm
24	MS-0103515	2	M5 SCREW, SHCS x 10mm
23	CLA-0010115-10	1	COVER, X TORQUE LIMITER
22	CL-0010215	1	BRACKET, C.S. REAR COVER
21	CL-0010115-CF	1	COVER, CARRIAGE FRONT
20	CL-0010115-01LB	1	WAYCOVER, Z AXIS REAR
19	CL-0010115-LB	1	WAYCOVER, Z AXIS FRONT
18	CL-0010115-06	1	COVER, X MOTOR
17	CLA-0010115-02	1	WAY COVER, X AXIS
16	CL-0010115-05	1	COVER, C.S LIMIT SWITCH
15	CL-0010116-05	1	GASKET
14	CL-0010115-04	1	COVER, C. S. REAR
13	CLA-0010215-06	1	BRACKET, Z TORQUE LIMITER
12	CLA-0010215-05	1	BRACE, HEADWALL & Z WAY C
11	CL-0002024	1	DOWEL, 1/4" x 3/4"
10	CL-0011841-BM	1	BAR, MOUNTING
9	CL-0011083	1	RETAINER, TRAM SHIM
8	CL-0011083-01	1	SHIM, TRAM
7	MS-0103619	8	M6 SCREW, SHCS x 25mm
6	CL-0011176-02LB	1	HOUSING, BEARING
5	CL-0001902-LB	1	BALL SCREW, Z-AXIS
4	SGB-0011976-04	1	SHIM, BUMPER
3	CL-0011176-M	1	MOUNT, BEARING
2	CL-0011176-01LB	1	HOUSING, BEARING
1	VL-0012128	1	TORQUE LIMITER, Z-AXIS
ITEM	PART NUMBER	QTY	DESCRIPTION

53 183 184 186

61 110

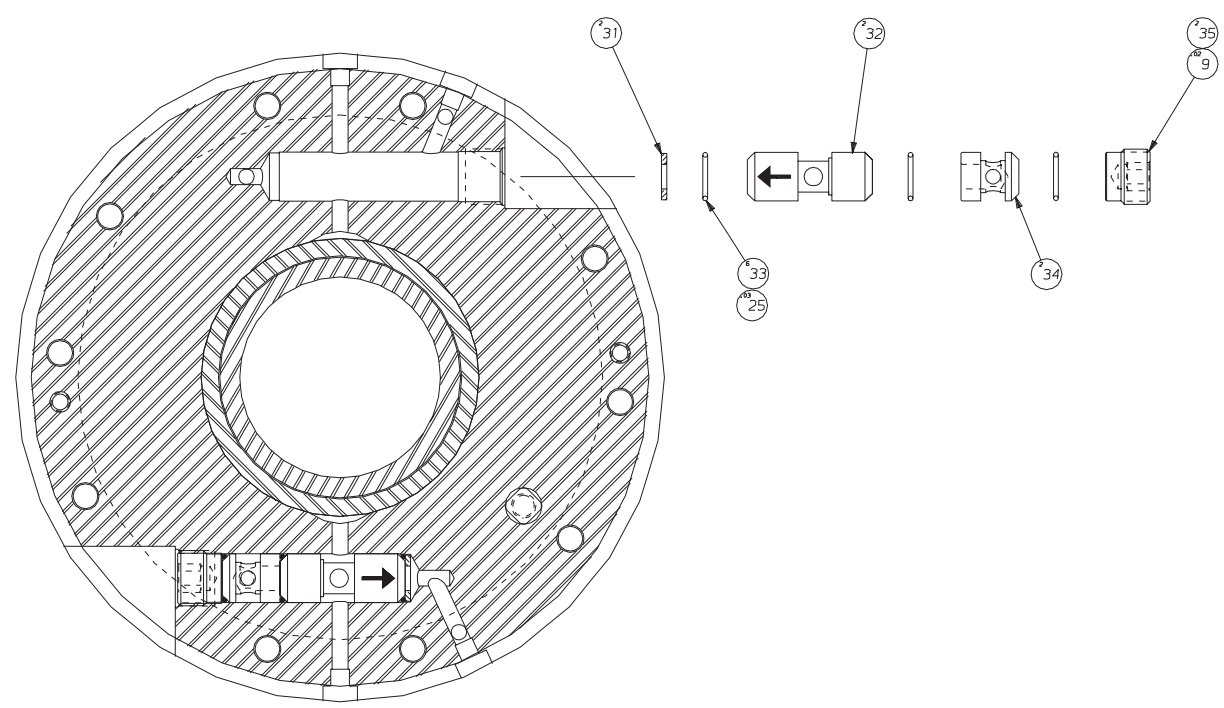
NAME: CARRIAGE/CROSS SLIDE DRIVE
 PART NUMBER: CL-0006730-LB
 BILL OF MATERIAL SHEET 7 OF 7
 REV: A

Collet Closer Assembly



VIEW A-A

NAME	COLLET CLOSER ASSY	PART NUMBER	CL-0000006-B	REV	F
	(BIG BORE OPTION)	SHEET	1 OF 2		

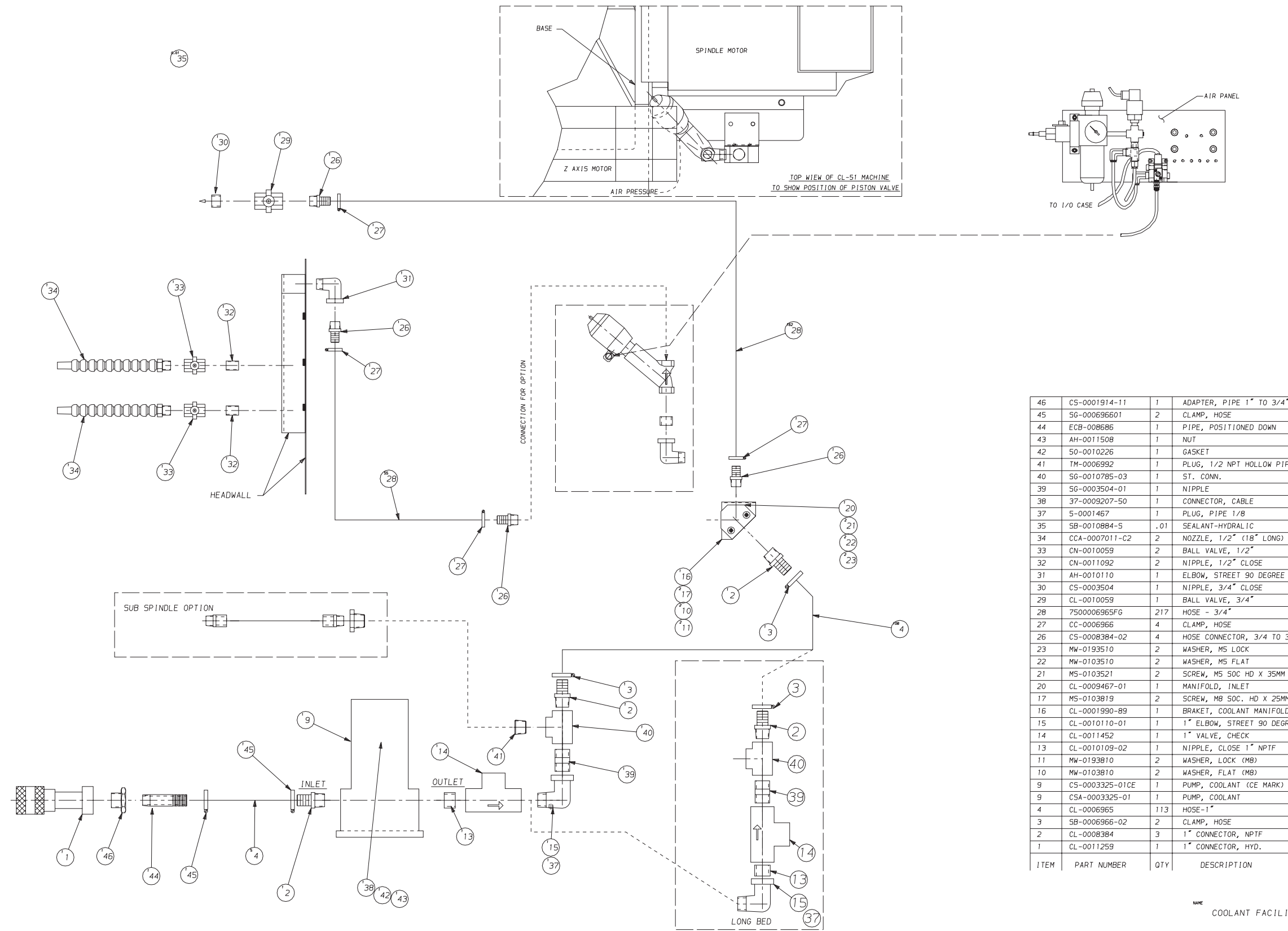


VIEW B-B

45	L0-0002575	1	COLLET CLOSER ASSEMBLY IN
44	R-0008044	2	PIN, ESCUTCHEON
43	CS-0010421-02	2	RING FOR ADAPTER
42	11-0009431	2	O-RING
41	CLA-0010302-04	1	TAG, DANGER-FINGER SHEAR
40	CS-0011259-13	2	CONNECTOR, HYD. (METRIC)
39	NC-0010884-01	.1	ADHESIVE, LOCTITE #222
38	SB-0010884-5	.01	HYDRAULIC SEALANT
37	CS-0003504-02	1	CONNECTOR, 3/4-14 NPT
36	CL-0011973-02	1	PLUG, TURN TITE EXPANSION
35	CL-0004646	2	PLUG, RETAINING
34	CL-0010481-01	2	SPACER
33	CL-0011198-04	6	SEAL, CARTRIDGE (EXTERNAL
32	CLC-0003048-01	2	VALVE, CARTRIDGE LOCK
31	CL-0003230-01	2	WASHER
30	CN-0010884	.01	ADHESIVE, LOCTITE #680
29	CL-0009431-02	2	O-RING
28	CL-0009431-08	1	O-RING (157mm x 6mm)
27	CS-0009431-29	1	O-RING
26	CL-0009431-09	3	O-RING (89.2mm x 5.70mm)
25	RF-0010994	.13	M55 GREASE
24	CL-0009431-07	2	O-RING (128mm x 4mm)
23	CL-0007703	6	PLUG, LEE
22	CS-0011259-11	2	FITTING, ELBOW
21	CL-0007852-02	2	RING, SEALING
20	CL-0009431-06	1	O-RING (165mm x 2mm)
19	CL-0009811	1	SPRING, WAVE
18	56-0008231-01	6	RING, RETAINING
17	CS-0010994	.05	MOBIL 28 GREASE
16	CLA-0011143-01	1	PIN
15	MS-0103821	10	M8 SCREW, SOC HD CAP x 35
14	CLA-0008233-01	2	BEARING, COLLET CLOSER
13	CL-0004197-03	1	BODY, HYDRAULIC INLET
12	CL-0004197-02	1	HOUSING, DRAIN
11	CLA-0009259-B	1	PISTON SLEEVE ASSY
10	CL-000407-02	1	HOUSING, RING
9	NC-0010884	.18	ADHESIVE, LOCTITE #242
8	CL-0010768-02	1	CAP, PISTON
7	CL-0006937	1	NUT, ADJUSTING
6	MS-0103514	4	M5 SCREW, SOC HD CAP x 8m
5	MW-0193810	14	LOCK WASHER, SPRING
4	VS-0010440	.03	ANTI-SIEZE (MOLYLUBE)
3	MS-0103819	14	M8 SCREW, SOC HD CAP x 25
2	CL-0006937-01	1	NUT, ABUTMENT
1	CL-0003015-B	1	DRAWTUBE ASSEMBLY
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME COLLET CLOSER ASSY (BIG BORE OPTION) PART NUMBER CL-0000006-B REV LEVEL E SHEET 2 of 2

Coolant System



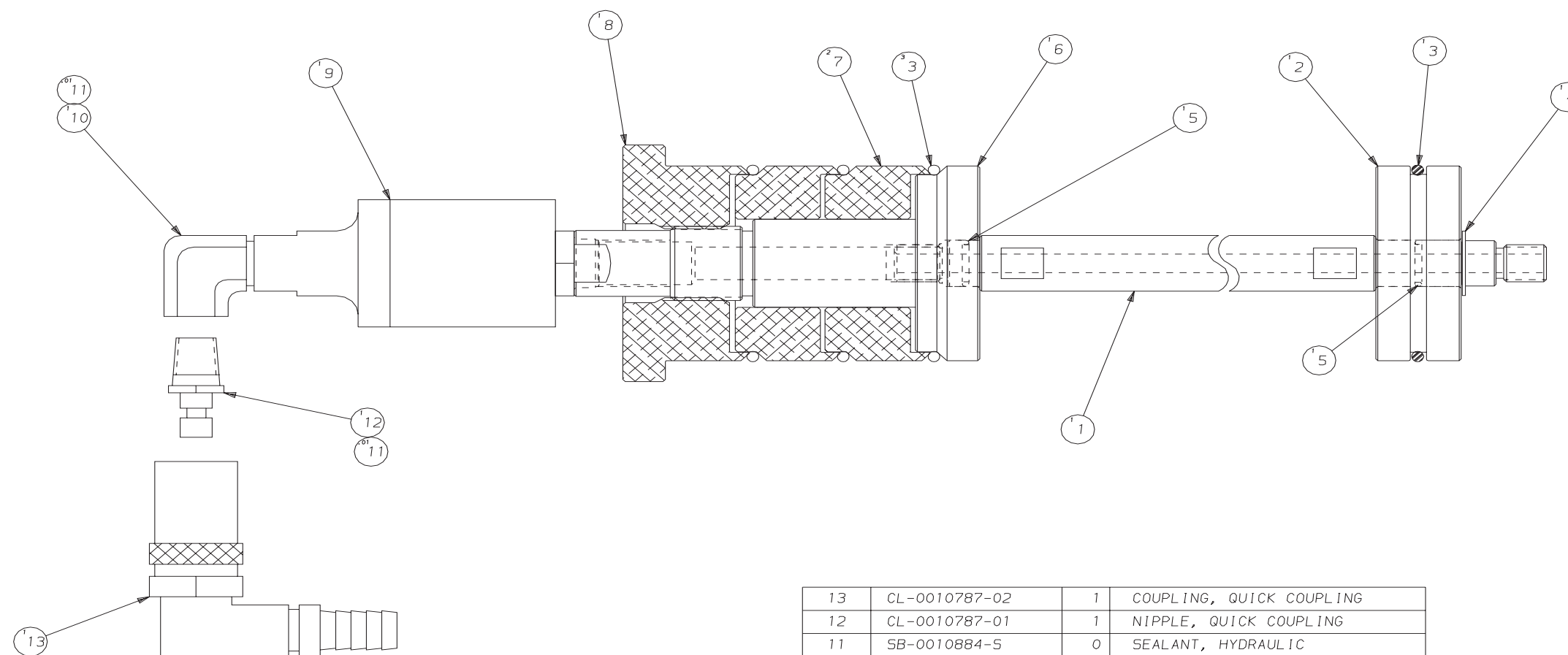
46	CS-0001914-11	1	ADAPTER, PIPE 1" TO 3/4"
45	SG-000696601	2	CLAMP, HOSE
44	ECB-008686	1	PIPE, POSITIONED DOWN
43	AH-0011508	1	NUT
42	50-0010226	1	GASKET
41	TM-0006992	1	PLUG, 1/2 NPT HOLLOW PIPE
40	SG-0010785-03	1	ST. CONN.
39	SG-0003504-01	1	NIPPLE
38	37-0009207-50	1	CONNECTOR, CABLE
37	5-0001467	1	PLUG, PIPE 1/8
35	SB-0010884-5	.01	SEALANT-HYDRALIC
34	CCA-0007011-C2	2	NOZZLE, 1/2" (18" LONG)
33	CN-0010059	2	BALL VALVE, 1/2"
32	CN-0011092	2	NIPPLE, 1/2" CLOSE
31	AH-0010110	1	ELBOW, STREET 90 DEGREE 3
30	CS-0003504	1	NIPPLE, 3/4" CLOSE
29	CL-0010059	1	BALL VALVE, 3/4"
28	750006965FG	217	HOSE - 3/4"
27	CC-0006966	4	CLAMP, HOSE
26	CS-0008384-02	4	HOSE CONNECTOR, 3/4 TO 3/4
23	MW-0193510	2	WASHER, M5 LOCK
22	MW-0103510	2	WASHER, M5 FLAT
21	MS-0103521	2	SCREW, M5 SOC HD X 35MM
20	CL-0009467-01	1	MANIFOLD, INLET
17	MS-0103819	2	SCREW, M8 SOC. HD X 25MM
16	CL-0001990-89	1	BRACKET, COOLANT MANIFOLD
15	CL-0010110-01	1	1" ELBOW, STREET 90 DEGRE
14	CL-0011452	1	1" VALVE, CHECK
13	CL-0010109-02	1	NIPPLE, CLOSE 1" NPTF
11	MW-0193810	2	WASHER, LOCK (MB)
10	MW-0103810	2	WASHER, FLAT (MB)
9	CS-0003325-01CE	1	PUMP, COOLANT (CE MARK)
9	CSA-0003325-01	1	PUMP, COOLANT
4	CL-0006965	113	HOSE-1"
3	SB-0006966-02	2	CLAMP, HOSE
2	CL-0008384	3	1" CONNECTOR, NPTF
1	CL-0011259	1	1" CONNECTOR, HYD.
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
COOLANT FACILITIES

PART NUMBER
CLA-0003310

SHEET
1 of 1

REV
Q

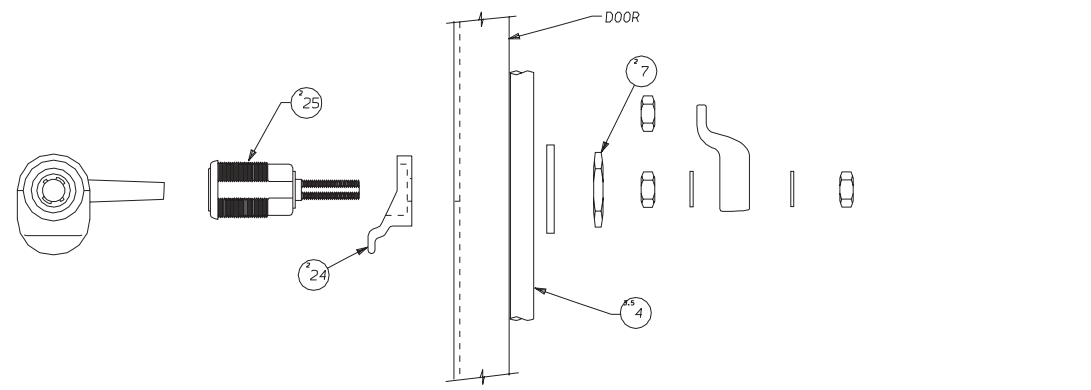


13	CL-0010787-02	1	COUPLING, QUICK COUPLING
12	CL-0010787-01	1	NIPPLE, QUICK COUPLING
11	SB-0010884-5	0	SEALANT, HYDRAULIC
10	A0-0010786	1	STREET, ELBOW 1/4 NPT
9	CS-0007703-04	1	UNION, ROTARY COOLANT
8	CL-0002883-01	1	NUT
7	CL-0009259-04	2	SLEEVE
6	CL-0000731-02	1	SHAFT, CARRIER
5	OR-0000810	2	O-RING
4	62-0008231-02	1	RING, RETAINER
3	OR-0004238	4	O-RING 2.375 ID X 0.139 SC
2	CL-0004817-01	1	BUSHING, END SUPPORT
1	CLA-0000731	1	SHAFT, LONG
ITEM	PART NUMBER	QTY	DESCRIPTION

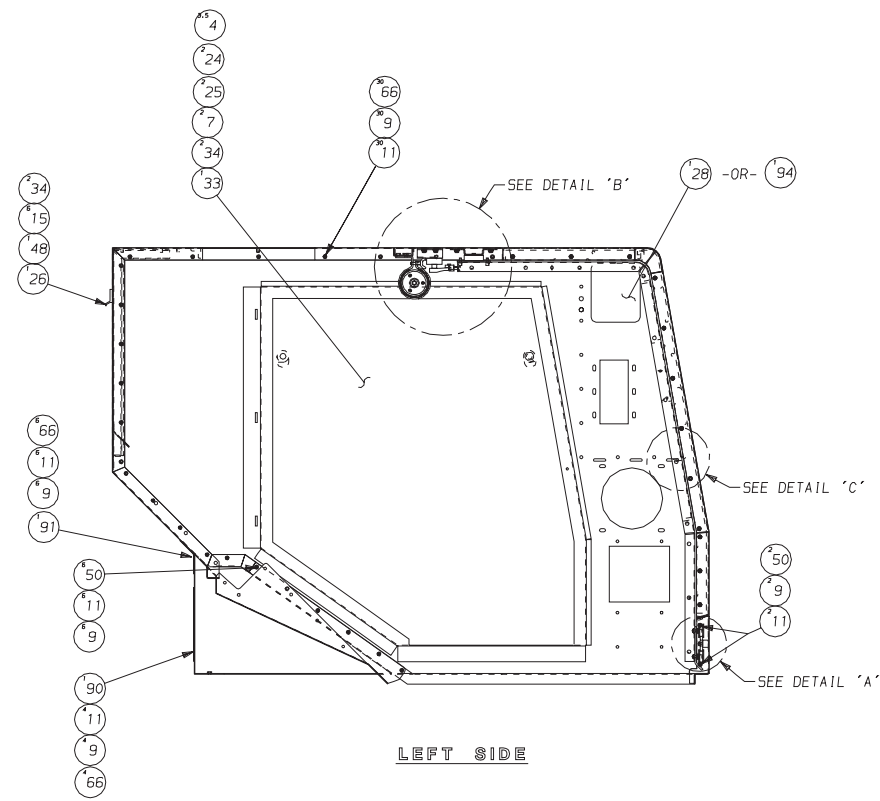
NAME
SUB-ASSEMBLY, THRU SPINDLE
(CL-51 BIG BORE)

PART NUMBER
CL-0003310-TT
SHEET 1 OF 1
REV LEVEL
A

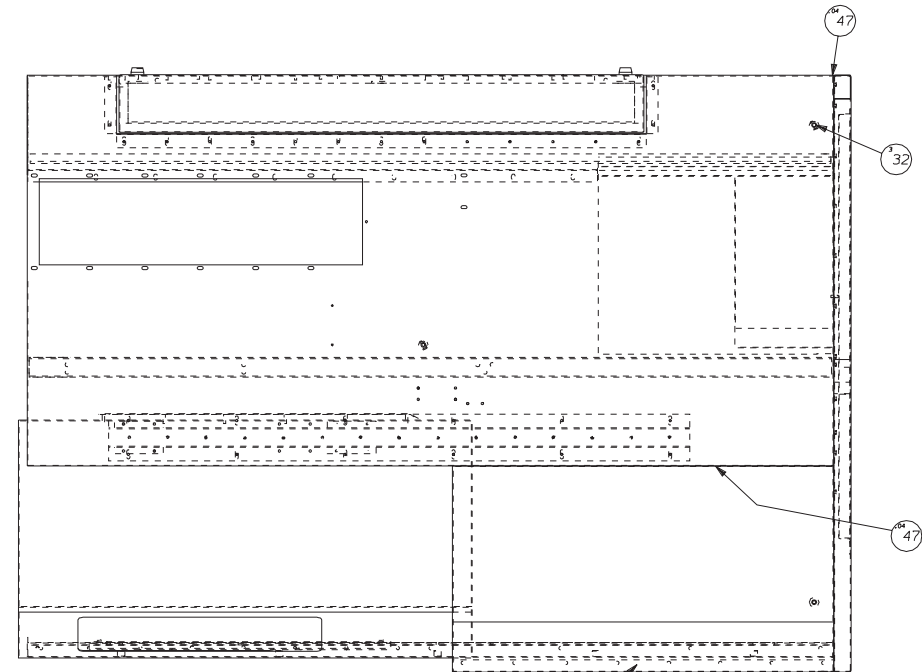
Coolant Guard Assembly



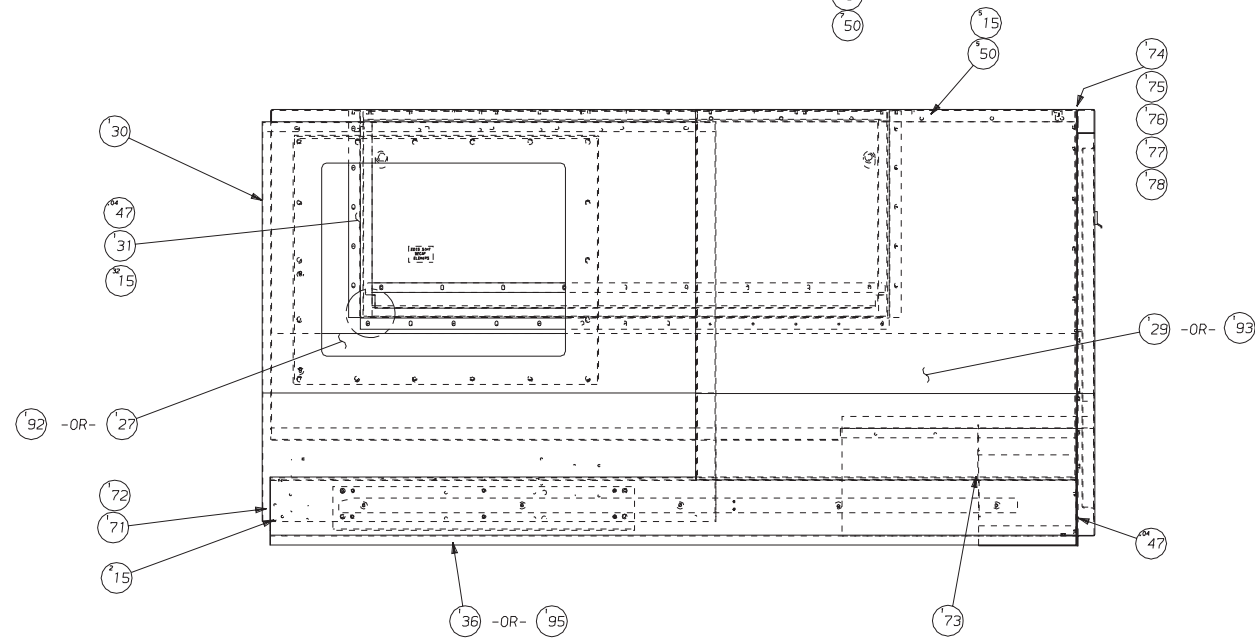
LATCH ASSEMBLY
(FOUR PLACES)



LEFT SIDE



TOP



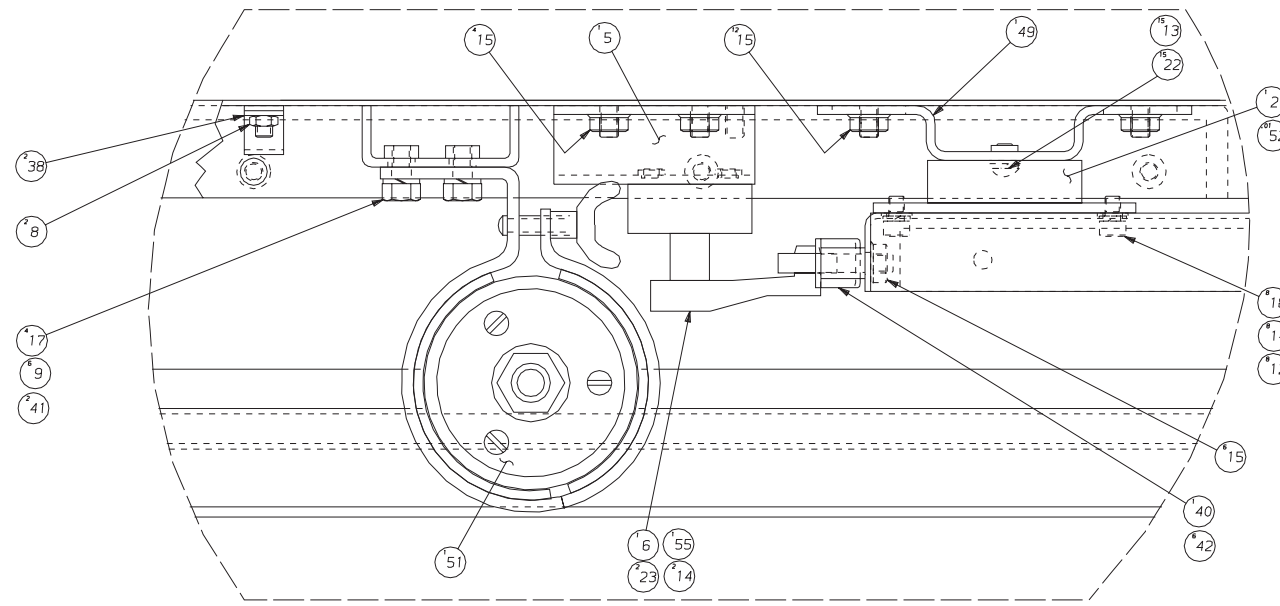
FRONT

NAME
COOLANT GUARD ASSEMBLY
LONG BED

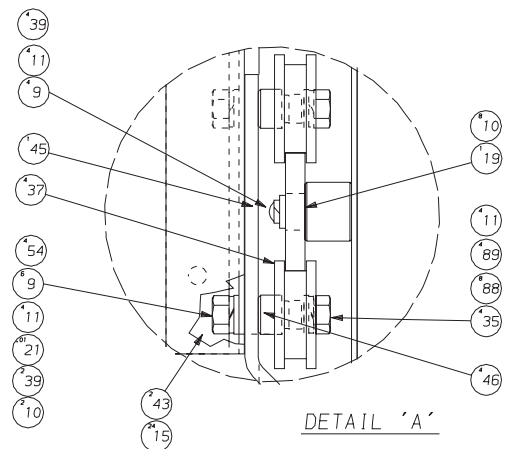
PART NUMBER
CL-0010453-LB

REV
LEVEL
B

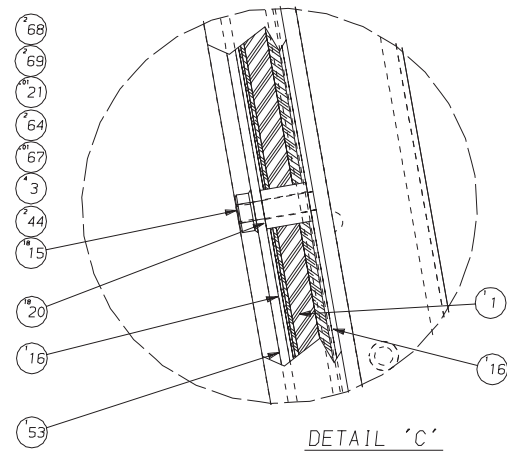
SHEET
1 of 2



DETAIL 'B'



DETAIL 'A'



DETAIL 'C'

ITEM	PART NUMBER	QTY	DESCRIPTION
95	CL-0001990-74LE	1	PANEL, FRONT DOOR TRACK
94	CL-0000221-EREL	1	GUARD, RIGHT END ASSY
93	CL-0000221-EGEL	1	RIGHT FRONT GUARD ASSY
92	CL-0000221-EGAL	1	GUARD, REAR ASSY
91	SG-0001990-25	1	BRACKET, REAR STIFFENER
90	CL-0020115-01	1	COVER, REAR ACCESS
89	MN-0113610	4	NUT, M6-1.0
88	MW-0193610	8	LOCKWASHER, M6
79	CL-0010116-67	1	GASKET, PARTS CATCHER
78	CL-0010116-75	1	GASKET
77	CL-0010116-73	1	GASKET
76	CL-0010116-72	1	GASKET
75	CL-0010116-71	1	GASKET
74	CL-0010116-70	1	GASKET
73	CL-0010116-68LB	1	GASKET, FP/GE
72	CL-0010116-53LB	1	STRIP, VITON
71	CL-0001990-98LB	1	RETAINER
69	MS-0303319	2	SCREW, BUTT HD M3X.5 X 25M
68	CL-0000328	2	EXTENSION, STOP
67	DV-0010884	.01	ADHESIVE

NOT SHOWN:

79

66	MS-0303617	40	SCREW, BT. HD. M6X1.0 X 16
64	MS-0303315	2	SCREW, BTHD M3X.5X10MM
55	HG-0003650-03	1	SWITCH, LEVER ARM
54	MS-0153618	4	SCREW FOR MTG. ROLLER PLA
53	CL-0001990-76LB	1	FRAME, WINDOW
52	CS-0010994	.01	GREASE
51	CL-0008915-01	1	LIGHT
50	MS-0303616	20	SCREW, BT HD M6 X 1.0 X 1
49	CL-0001990-75	1	MOUNT, UPPER TRACK
48	CL-0001990-72LB	1	DEFLECTOR, DOOR (REAR ACC
47	GE-0010884	.2	SEALER
46	CS-0010568-01	4	BUSHING DOOR ROLLER (LOWE
45	CL-0012103	1	PLATE ROLLER MOUNTING
44	CS-0010331-03	2	PLUG, SNAP-IN
43	CL-0001990-80	2	GUSSET, DOOR SUPPORT
42	HG-0010568-03	6	SPACER
41	CS-0008915-02	2	BRACKET, (CS)
40	CL-000221-47LB	1	TRIP PLATE, LIMIT SWITCH
39	MS-0303618	6	SCREW
38	CN-0008104	2	CLAMP, CABLE
37	CSA-0011404	4	DOOR ROLLER ASSY
36	CL-0001990-74LB	1	PANEL, FRONT DOOR TRACK
35	MS-0153622	4	SCREW FOR MTG. ROLLER ASS
34	SB-0011965	4	ALIGNMENT PIN
33	CL-0003780	1	DOOR, RIGHT ACCESS
32	DP-0009604-B	3	DOT PLUG
31	CL-0000221-16LB	1	RETAINER, BACK
30	CL-0000221-FDLB	1	FRONT DOOR GUARD ASSY
29	CL-0000221-GELB	1	RIGHT FRONT GUARD ASSY
28	CL-0000221-RELB	1	GUARD, RIGHT END ASSY
27	CL-0000221-GALB	1	GUARD, REAR ASSY
26	CL-0001990-71LB	1	DOOR
25	VL-0011738	4	LATCH
24	HG-0011738-02	4	DOOR PULL
23	MS-0103517	2	SCREW, SK HD CP M5 X .8 X
22	MS-0303514	15	SCREW, BT HD M5 X .8 X B
21	NC-0010884-02	.02	LOCTITE #222
20	CL-0011182	18	BUSHING, WINDOW
19	CL-0006324-LB	1	TRACK DOOR
18	MS-0103516	8	SCREW, SK HD CP M5 X .8 X
17	MS-0153616	4	SCREW, HEX HD CP M6 X 1 X
16	VL-0010116-11	2	GASKET, WINDOW
15	MN-0283610	109	NUT, HEX SERRATED FLANGE
14	MW-0193510	10	WASHER, LOCK SQUARE M5
13	MW-0183510	15	WASHER, LOCK REGULAR M5
12	MW-0103510	8	WASHER, FLAT M5
11	MW-0103610	67	WASHER, FLAT M6X1.0 STEEL
10	MW-0263610	10	WASHER, STAR EXT. M6X1.0
9	MW-0183610	71	WASHER, LOCK REG. M6x1.0
8	MN-0113510	2	NUT, M5
7	U 0004141 C	4	NUT
6	CSA-0010224-01	1	SWITCH, LIMIT
5	CLA-0001990-79	1	BRACKET, SWITCH (MAIN GUA
4	CN-0011198-01	7	TRIM-SEAL
3	HG-0010541	4	BUMPER, RUBBER
2	CL-0006463	1	SLIDE PACK, UPPER TRACK
1	VL-0010449	1	WINDOW, DOOR

ITEM PART NUMBER QTY DESCRIPTION

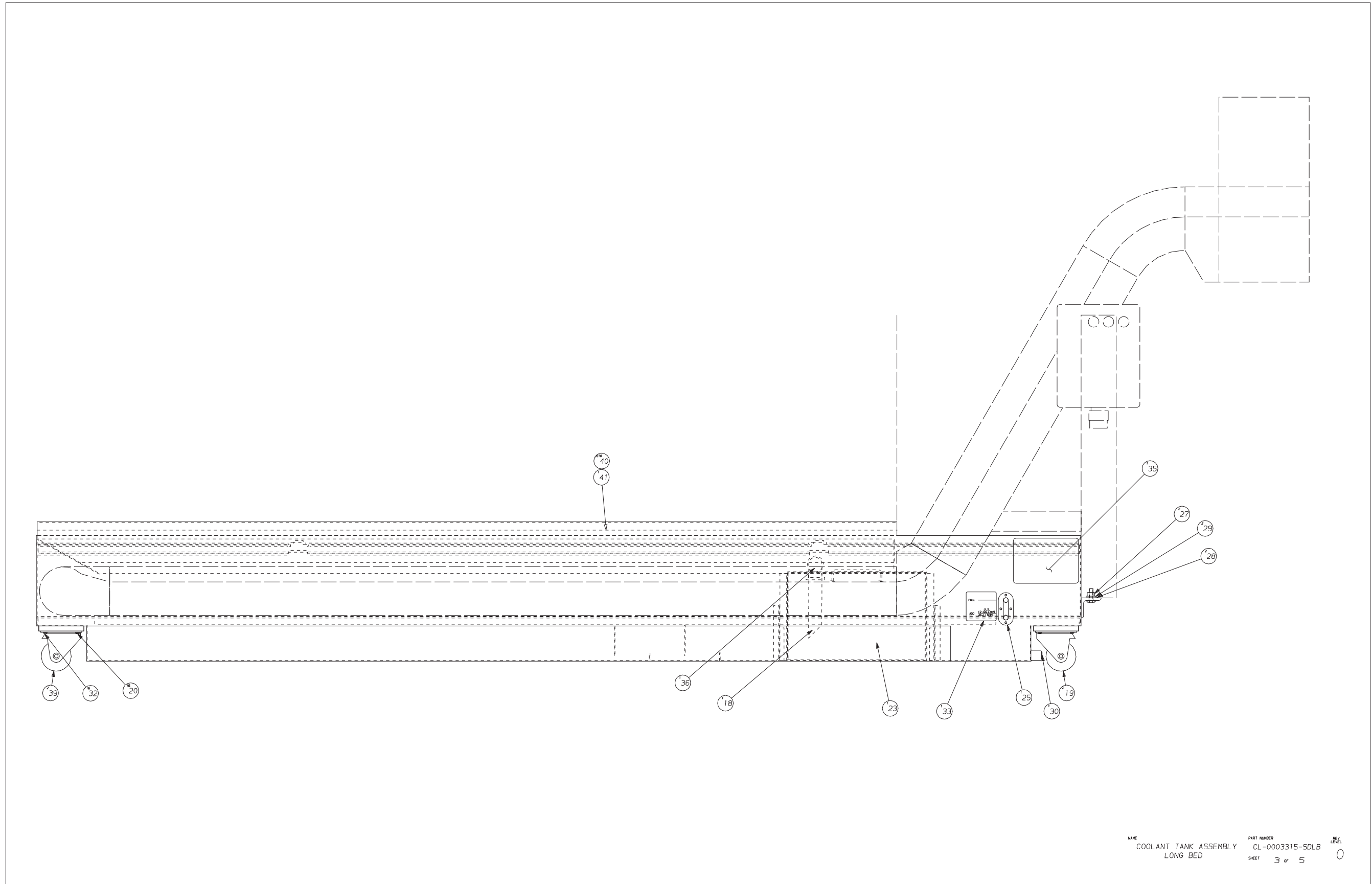
NAME
COOLANT GUARD ASSEMBLY
LONG BED

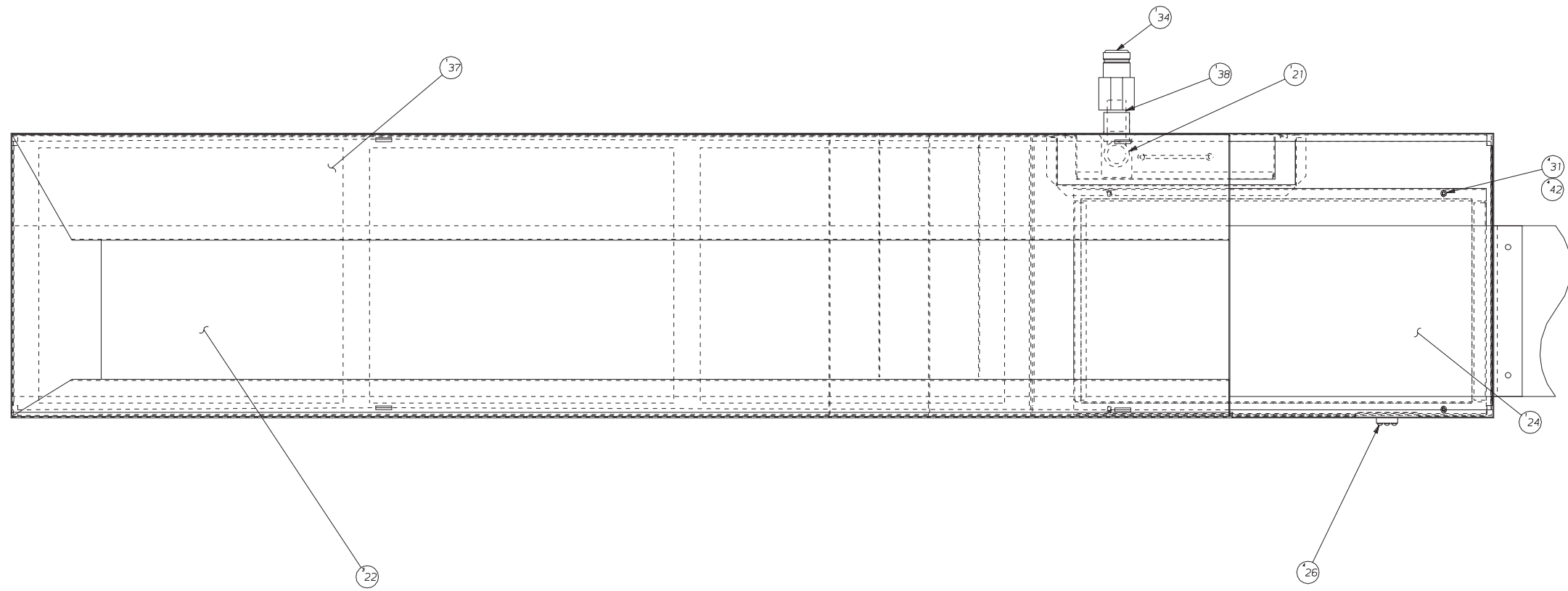
PART NUMBER
CL-0010453-LB

SHEET
2 of 2

REV
LEVEL
A

Coolant Tank Assembly, Chip Conveyor



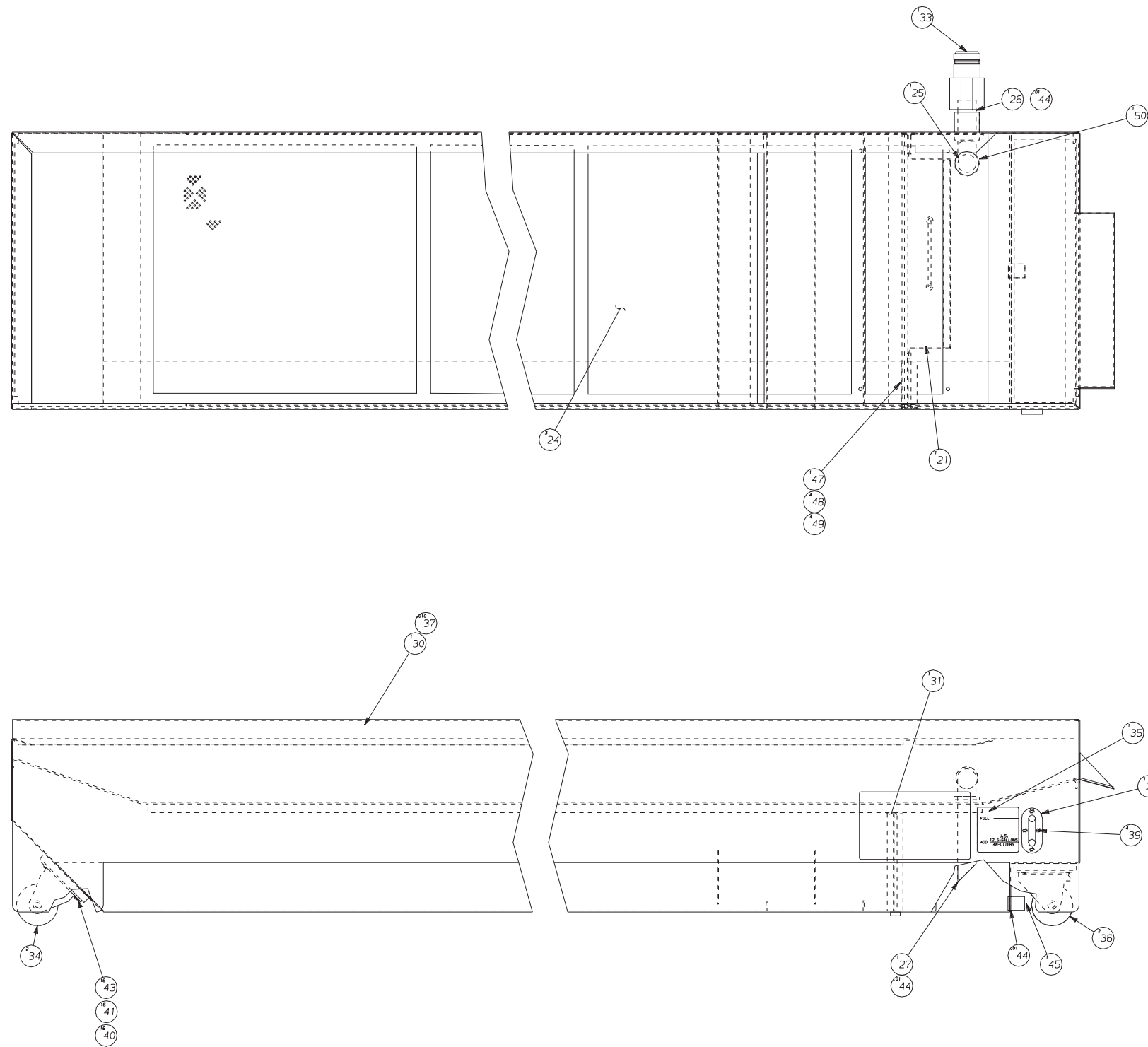


NAME	PART NUMBER	REV
COOLANT TANK ASSEMBLY	CL-0003315-SDLB	0
LONG BED	SHEET 4 of 5	

Coolant Tank Assembly, Chip Conveyor

42	MW-0193610	4	WASHER, LOCK
41	CL-0010116-46LB	1	STRIP, COOLANT TANK SPLASH
40	DV-0010884	.01	ADHESIVE
39	CL-0011557	2	CASTER, RIGID
38	CL-0010109-02	1	NIPPLE, 1" CLOSE
37	CL-0001990-56LB	1	CHIP SHIELD WELD ASSEMBLY
36	CL-0007703-01	1	ELBOW, 1" BLACK
35	CL-0010366	1	TAG
34	CL-0011259-03	1	COUPLING, NIPPLE
33	CL-0010366-01LB	1	COOLANT LEVEL TAG
32	MW-0193810	16	WASHER, LOCK
31	MS-0303617	4	SCREW, BUTTON HD.
30	375-0001467	1	PLUG, 3/8 HEX.
29	MW-0194010	2	WASHER, LOCK
28	MW-0104010	2	FLAT, WASHER
27	MN-0114010	2	NUT, HEX .
26	MS-0303517	4	SCREW, BUTTON HD.
25	ADA-0011318	1	GAUGE, LEVEL
24	CL-0010115-32	1	COVER, SUMP
23	CL-0001990-WA	1	FILTER WELD ASSEMBLY
22	CLA-0003315-T1	3	SCREEN, WELD ASSY
21	SB-0010884-5	1	SEALANT, HYDRAULIC
20	MS-0303817	16	SCREW
19	CS-0011557	2	CASTER, SWIVEL
18	CL-0010109-05	1	NIPPLE, COOLANT TANK
17	CL-0002990-29	2	BAFFLE, COOLANT TANK
16	CL-0003990-16	2	BAFFLE, COOLANT TANK (CHI
15	CL-0002990-38	1	FILTER MOUNT, HORIZONTAL
13	CL-0011259-02	1	COUPLING, PIPE
12	CL-0001990-59L1	1	SUPPORT, SCREEN FRONT
11	CL-0001990-60LB	4	STIFFENER
10	MS-0154020	2	SCREW, HEX. HD. CAP
9	CL-0002990-39	1	FILTER MOUNT, HORIZONTAL
8	CL-0001990-59L2	1	SUPPORT, SCREEN REAR
7	HG-0002990-03	1	WEDGE TANK
6	CN-0003315-01	1	BUSHING, PIPE
5	CS-0003990-56	1	BRACKET, CHIP CONVEYOR MT
4	CLA-0003315-01	2	BLOCK, CASTER MT.
3	CL-0001990-58	1	TANK, LEFT END
2	CL-0001990-57	1	TANK, RIGHT END
1	CL-9003315-5DLB	1	COOLANT TANK WELD ASSEMBL
ITEM	PART NUMBER	QTY	DESCRIPTION

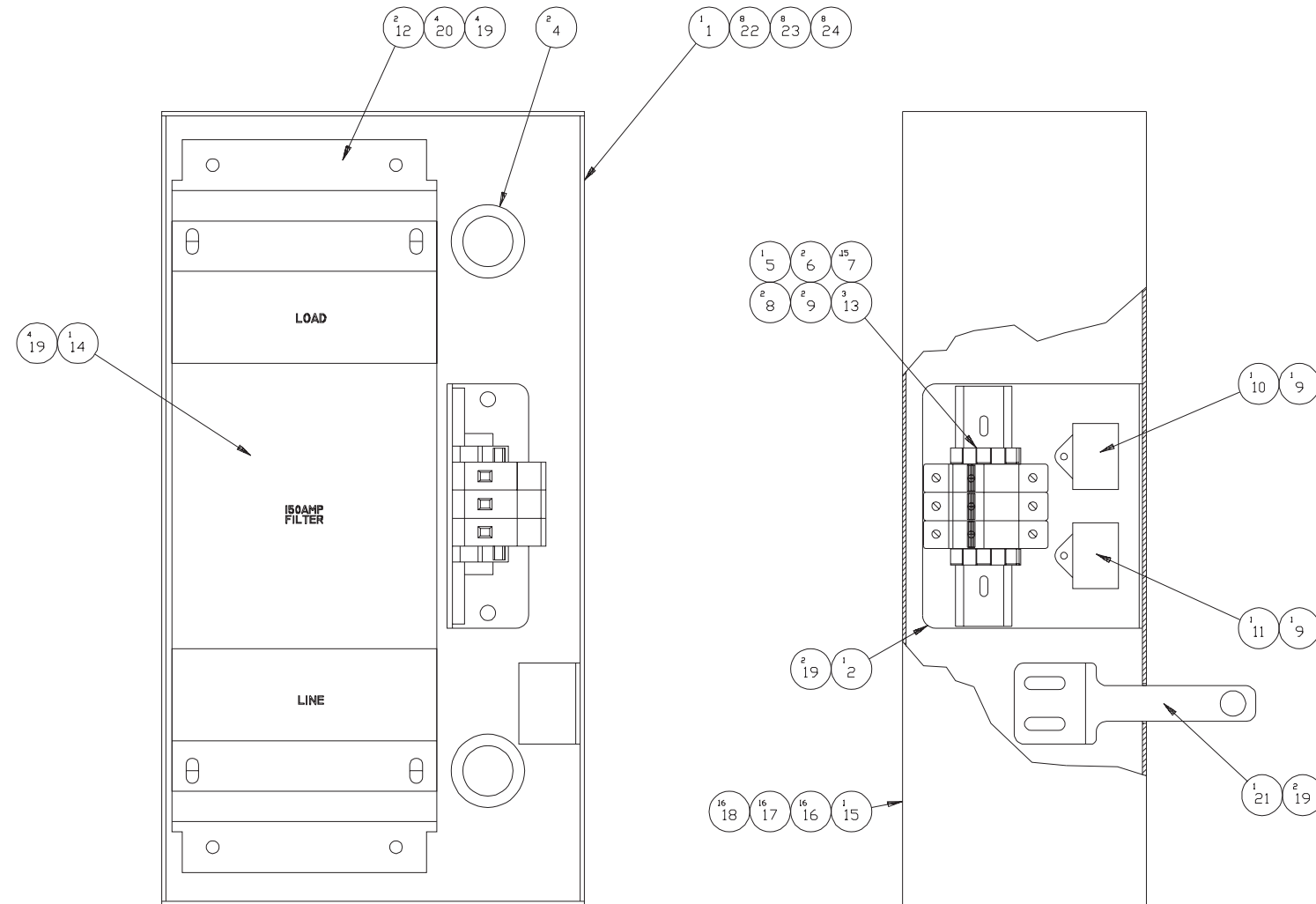
NAME COOLANT TANK ASSEMBLY LONG BED PART NUMBER CL-0003315-5DLB REV LEVEL 0 SHEET 5 OF 5



50	SB-0009532-01	1	GROMMET
49	MW-0263510	4	MS STAR WASHER
48	MS-0303516	4	MS SCREW BT HD X12MM
47	CL-0004990-99	1	COVER
46	CL-0003315-SSLB	1	SCREEN SUPPORT
45	375-0001467	1	PLUG, PIPE
44	SB-0010884-5	.03	SEALANT, HYD.
43	MW-0193810	16	WASHER, LOCK
41	MW-0103810	16	WASHER
40	MS-0103817	16	SCREW
39	MS-0303517	4	SCREW, BUTTON HD.
37	DV-0010884	.01	ADHESIVE
36	CS-0011557	2	CASTER, SWIVEL
35	CL-0010522-LB	1	TAG, COOLANT LEVEL
34	CL-0011557	2	CASTER, RIGID
33	CL-0011259-03	1	COUPLING, NIPPLE
31	CL-0010366	1	TAG, COOLANT TANK SPLASH
30	CL-0010116-46LB	1	STRIP, COOLANT TANK SPLASH
27	CL-0010109-05	1	NIPPLE, COOLANT TANK
26	CL-0010109-02	1	NIPPLE, 1" CLOSE
25	CL-0007703-01	1	ELBOW, 1" BLACK
24	CL-0004990-97	3	SCREEN, WELD ASSEMBLY
21	CL-0002990-WA	1	FILTER WELD ASSEMBLY
20	ADA0011318	1	GAUGE, LEVEL
19	CL-0002990-37	1	INSERT, LEFT END
17	CL-0002990-29	2	BAFFLE, COOLANT TANK
16	CL-0002990-30	2	BAFFLE, COOLANT TANK
14	CL-0005990-61	1	BRACKET, FILTER MOUNT (LE
13	CL-0005990-60	1	BRACKET, FILTER MOUNT (RI
12	CL-0003315-NRE	1	TANK, RIGHT END
11	CL-0001990-46	1	STIFFENER
10	CL-0005990-48	1	BRACKET, FILTER MOUNT
9	CL-0005990-45	1	BRACKET, FILTER MOUNT
8	CL-0011259-02	1	COUPLING, PIPE
7	CL-0001990-47	2	TROUGH, CHIP
5	CN-0003315-01	1	BUSHING, PIPE
4	CLA-0003315-01	2	BLOCK, CASTER MT.
3	CL-0003315-LE	1	TANK, LEFT END
2	CS-0011942-5M	4	MS X .8 PEM NUT
1	2000032	1	#14 GAGE (.0697) CR55
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME COOLANT TANK ASSEMBLY LONG BED PART NUMBER CL-0003315-TALB REV LEVEL A SHEET 4 OF 4

Filter Enclosure Assembly

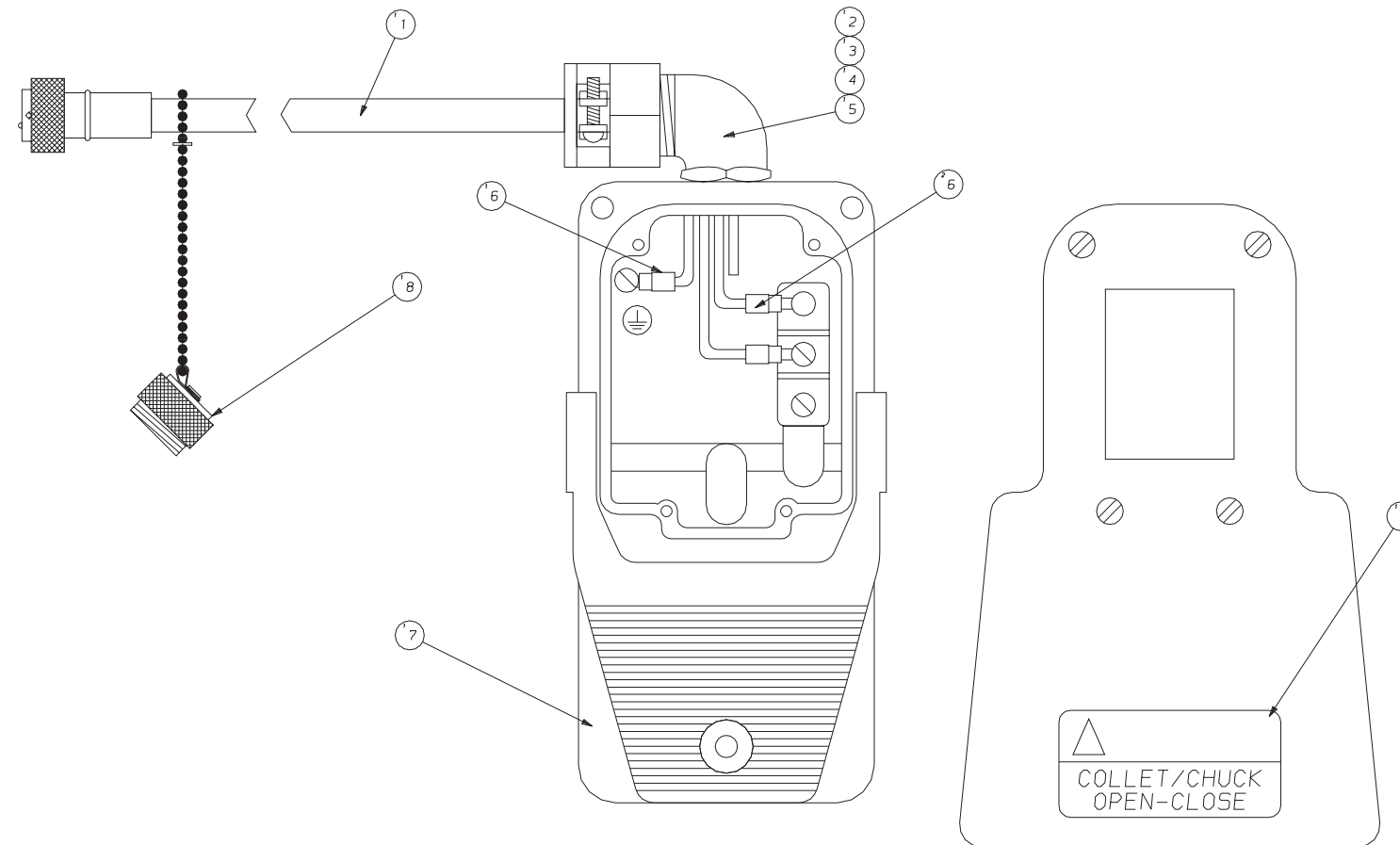


ITEM	PART NUMBER	QUANTITY	DESCRIPTION	ASSEMBLY	LINK	DWG.SZ.
1	CL 0004158FBB	1.00	SUPPORT, FILTER BOX BOTTOM	SEE ASSY NO.	MA	D
2	HG 0004158FB	1.00	BRACKET, FUSE MOUNTING	SEE ASSY NO.	MA	D
3	CL 0003279WPF1	1.00	WIRE PACKAGE, FILTER BOX	SEE ASSY NO.	MA	N
4	CL 0009532	2.00	GROMMET	SEE ASSY NO.	MA	N
5	SG 0010017	1.00	HOLDER, FUSE 3P/W IND.CC FUS	SEE ASSY NO.	MA	N
6	HG 001103204	2.00	END STOP	SEE ASSY NO.	MA	A
7	CK 9011032	0.15	RAIL, DIN BLANK	SEE ASSY NO.	MA	N
8	MW 0263410	2.00	WASHER, EXT. STAR M4	SEE ASSY NO.	MA	N
9	MS 0303514	4.00	SCREW, BT. HD. M5 X .8 X 8MM	SEE ASSY NO.	MA	N
10	18 001129806	1.00	SUPPRESSOR L-L	SEE ASSY NO.	MA	N
11	18 001129807	1.00	SUPPRESSOR L-E	SEE ASSY NO.	MA	N
12	CL 0010449LS01	2.00	SHIELD, LEXAN - EMI FILTERS	SEE ASSY NO.	MA	C
13	SG 000961001	3.00	FUSE, 5A CLASS CC	SEE ASSY NO.	MA	N
14	18 001129805	1.00	FILTER, EMI NOISE 150 A	SEE ASSY NO.	MA	N
15	CL 0004158FBC	1.00	COVER, FILTER BOX	SEE ASSY NO.	MA	D
16	MS 0303515SS	16.00	SCREW, BT. HD. M5X.8,X 10MM	SEE ASSY NO.	MA	N
17	MW 0103510	16.00	WASHER, FLAT M5 X .8 STEEL	SEE ASSY NO.	MA	N
18	MW 0183510	16.00	WASHER, LOCK REG. M5 X .8 SC	SEE ASSY NO.	MA	N
19	MN 0283610	12.00	NUT, HEX SERRATED FLANGE	SEE ASSY NO.	MA	N
20	5P 0006431 B	4.00	WASHER FOR SWITCH BRACKET	SEE ASSY NO.	MA	N
21	HG 0001990CF B	1.00	BRACKET, FILTER BOX	SEE ASSY NO.	MA	C
22	MS 0303615SS	8.00	SCREW, BT HD M6X1.0X 10MM SS	SEE ASSY NO.	MA	N
23	MW 0103610SS	8.00	WASHER, FLAT M6 STAINLESS ST	SEE ASSY NO.	MA	N
24	MW 0183610SS	8.00	LOCKWASHER, M6 STAINLESS STE	SEE ASSY NO.	MA	N

NOT SHOWN

1
3

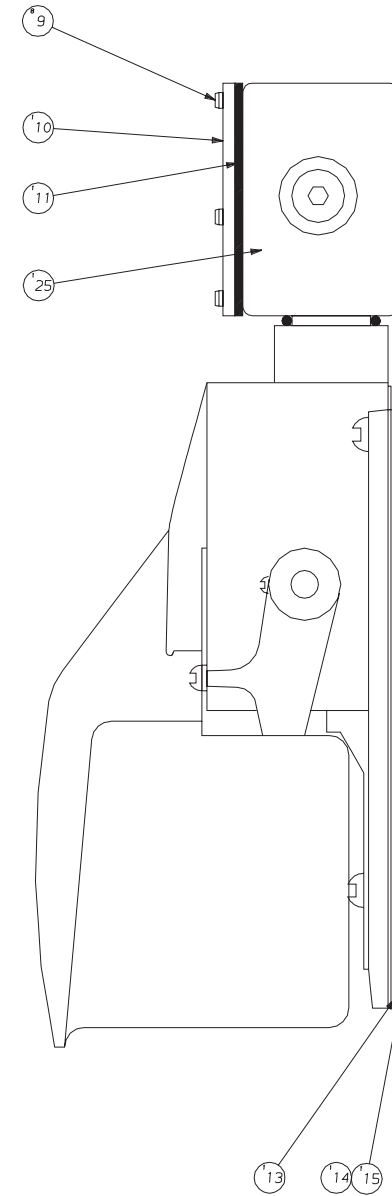
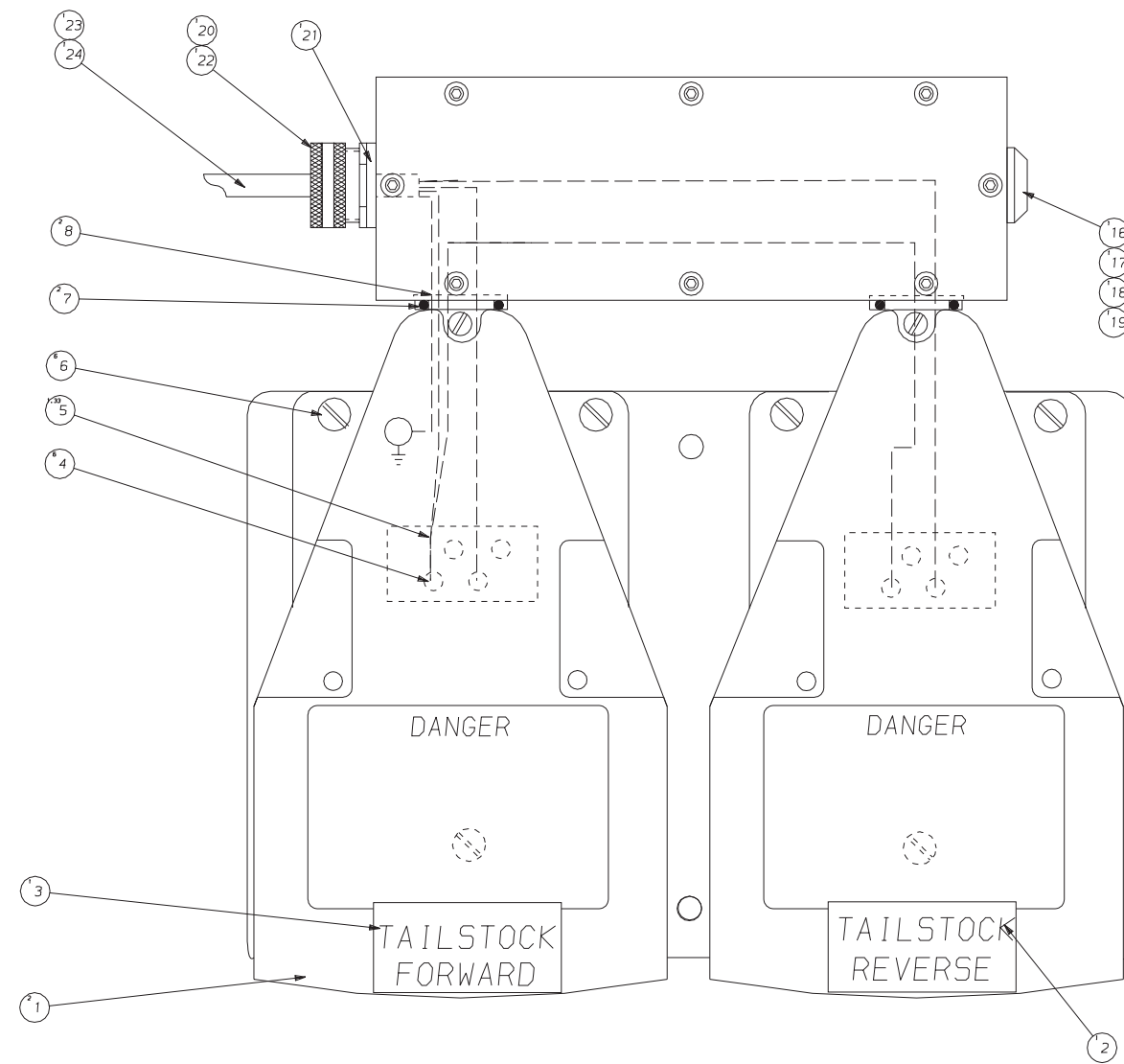
FILTER ENCLOSURE ASSEMBLY
CL -0003279-FBA



9	HG-0010366-01	1	TAG
8	CS-0012042-16	1	PLUG
7	HG-0003650-01	1	SWITCH, FOOT
6	863-0009188	3	STAKON
5	HG-0011030	1	COMPRESSION NUT
4	HG-0009532	1	GROMMET
3	NT-0009207-11	1	WASHER
2	DB-0009207-A	1	BODY, 90 DEG.
1	CL-0003011-J2	1	CABLE
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME ASSEMBLY, FOOT SWITCH PART NUMBER HGA-0003650 REV LEVEL 0
SHEET 1 of 1

Foot Switch Assembly, Tailstock

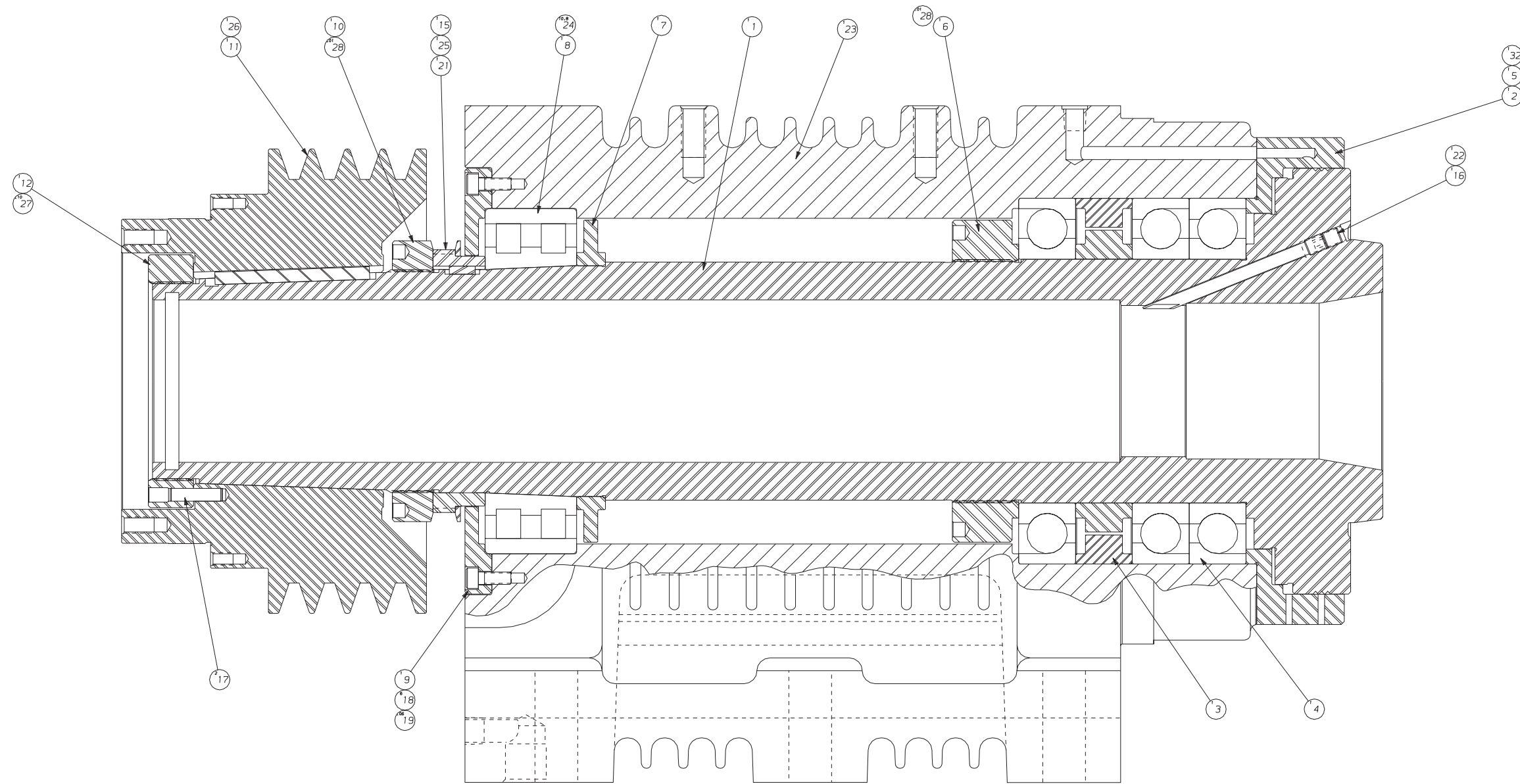


25	CNA-0010475-05	1	BOX, JUNCTION
24	CSD-0012042-16	1	CAP, RECEPTACLE
23	CS-0003011-01	1	CABLE
22	AH-0011508	1	NUT, LOCK
21	50-0010226	1	GASKET
20	31-0009207-50	1	CONNECTOR, CABLE
19	KL-0007876-A	1	WASHER
18	KL-0007876	1	COVER, HOLE
17	5P-0002843 B	1	NUT, HEX
16	OR-0001114	1	O RING
15	3 -0010884-01	1	ADHESIVE
14	SBA-0012025	1	MAT, ANTI SKID
13	CNA-0004158-32	1	MOUNTING PLATE
11	SB-0010116-48	1	GASKET
10	CN-0010475-04	1	COVER, JUNCTION BOX
9	0300206	8	SCREW
8	19-0011050-43	2	CHASE NIPPLE
7	19-0009431	2	O RING
6	0350510	6	SCREW
5	182-0002874-BU	1	WIRE
4	853-0009188-RA	6	STAKON
3	CL-001030205	1	TAG, TAILSTOCK FORWARD
2	CL-001030206	1	TAG, TAILSTOCK REVERSE
1	SBA-0003650-04	2	SWITCH, FOOT
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
FOOT SWITCH ASSEMBLY

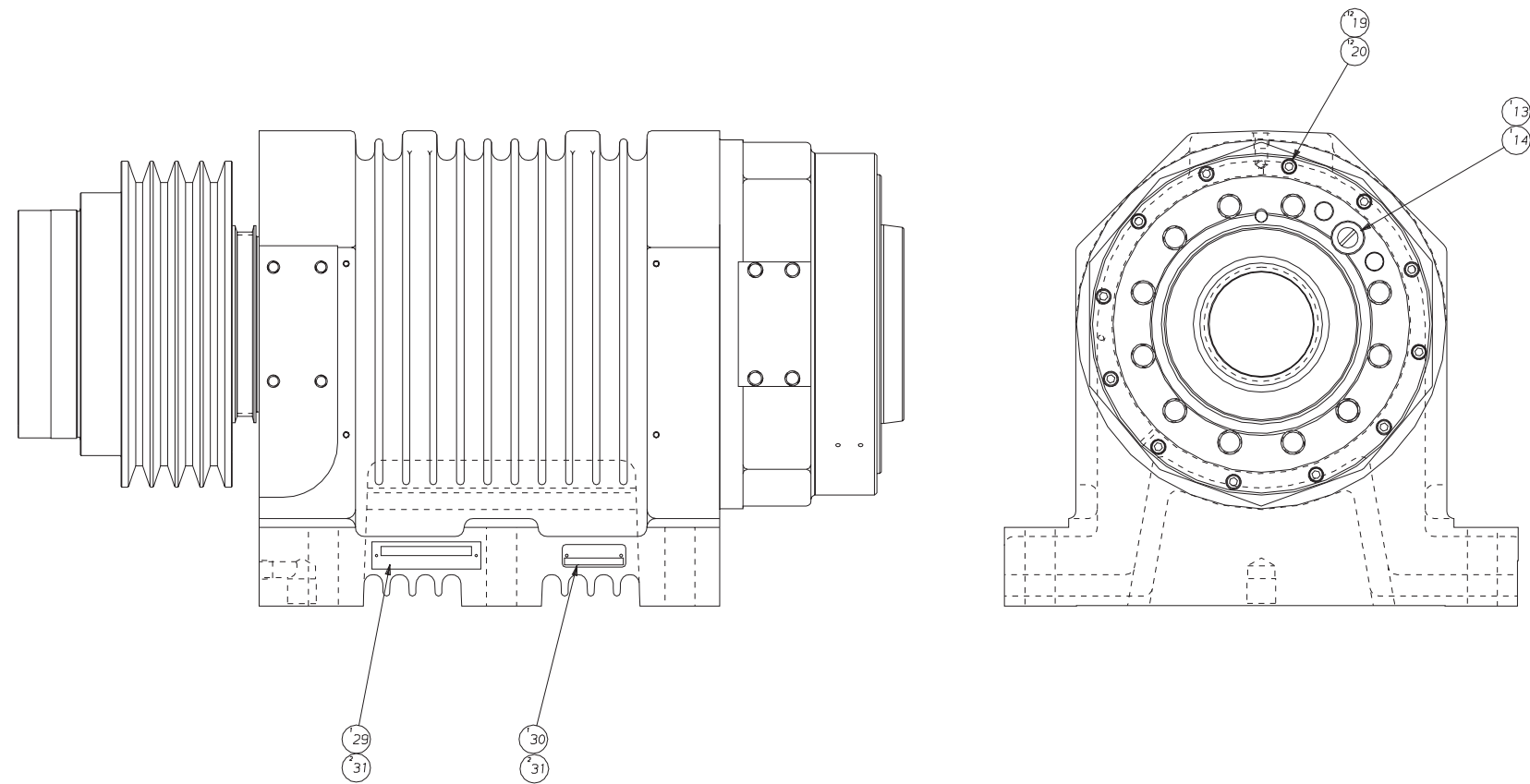
PART NUMBER
CL-0010765
SHEET 1 of 1

REV
LEVEL
A



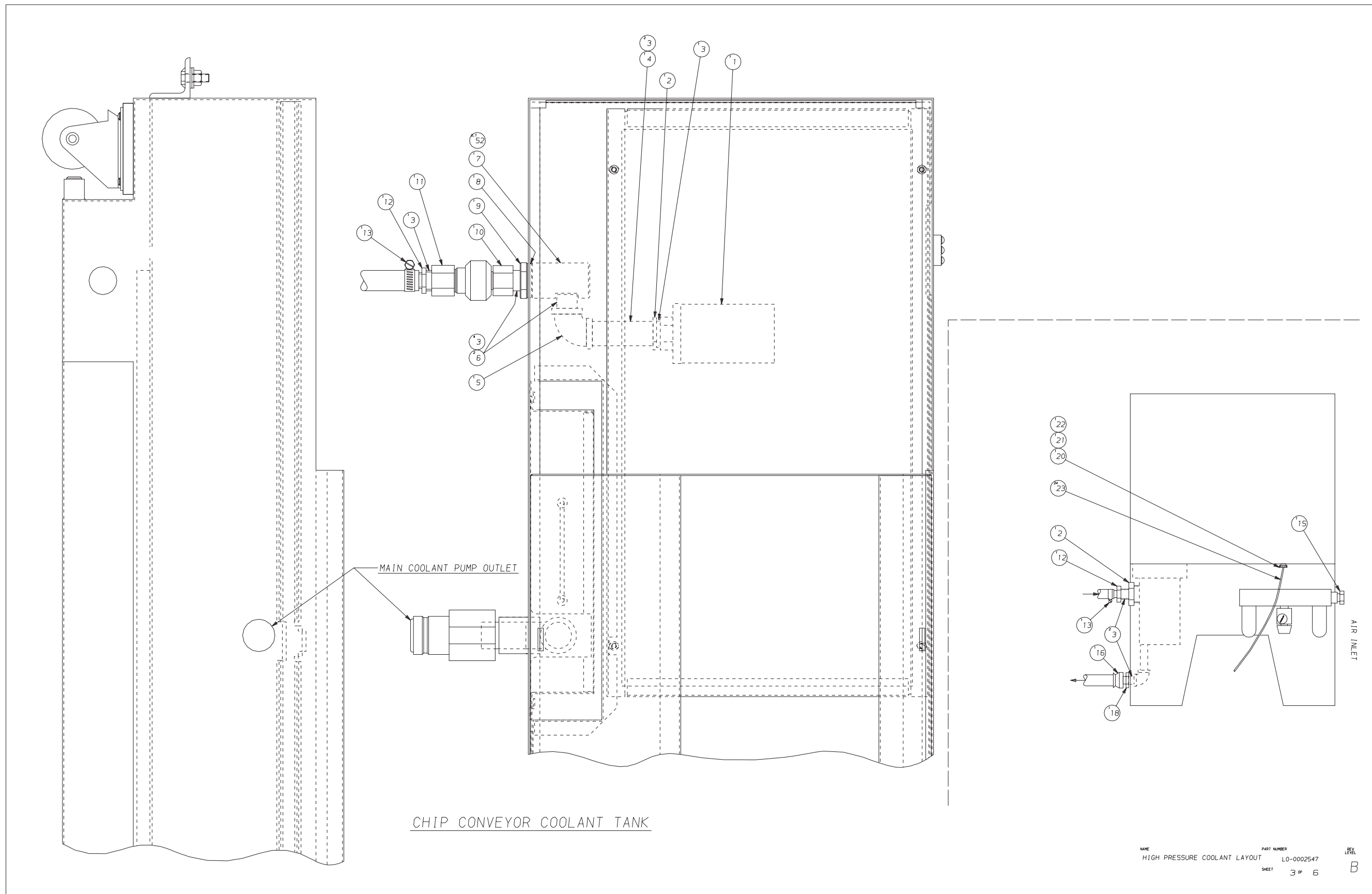
NAME HEADSTOCK ASSEMBLY (BIG BORE OPTION) PART NUMBER CLA-0000002-BB REV LEVEL D SHEET 1 OF 2

Headstock Assembly

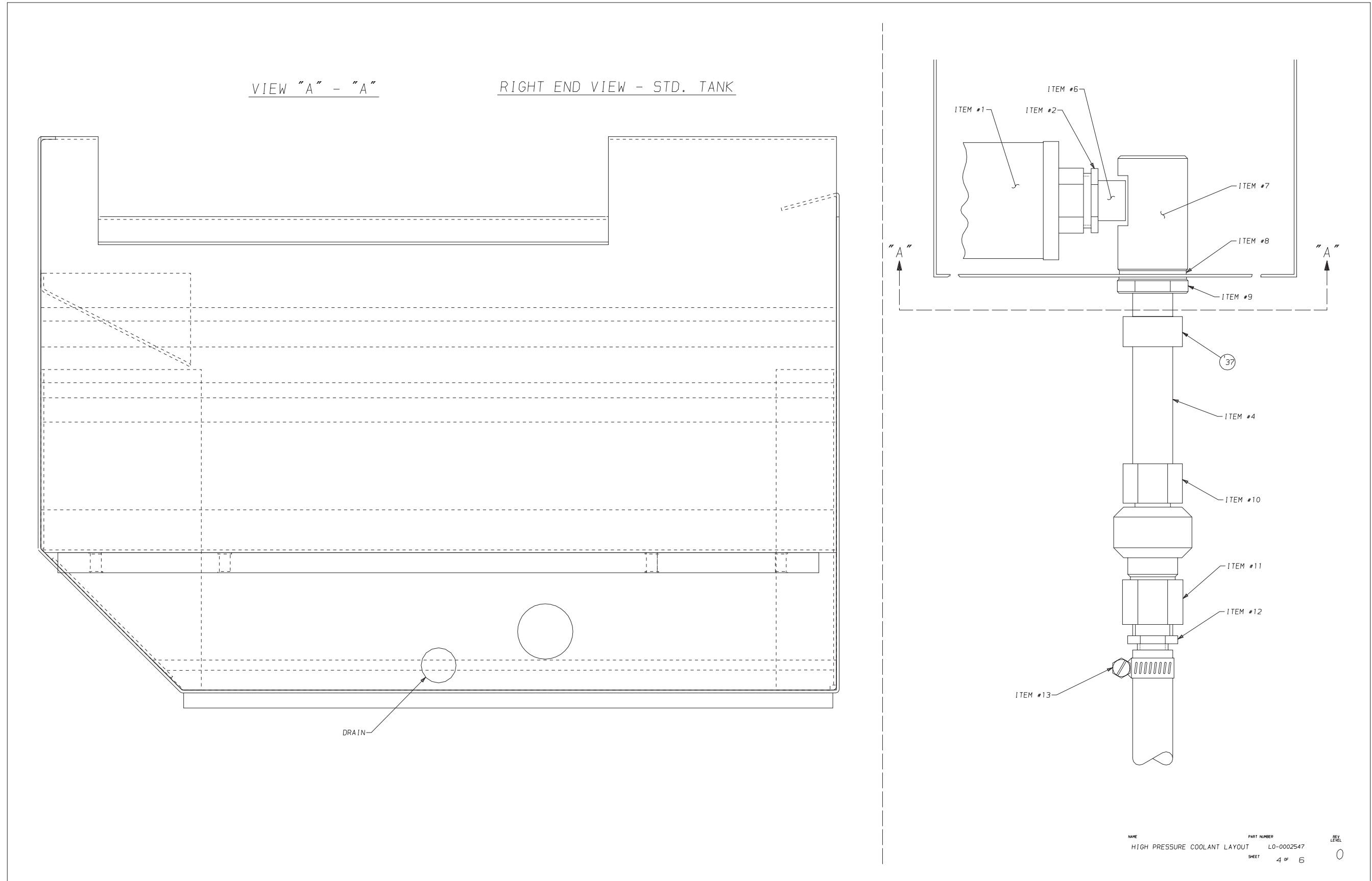


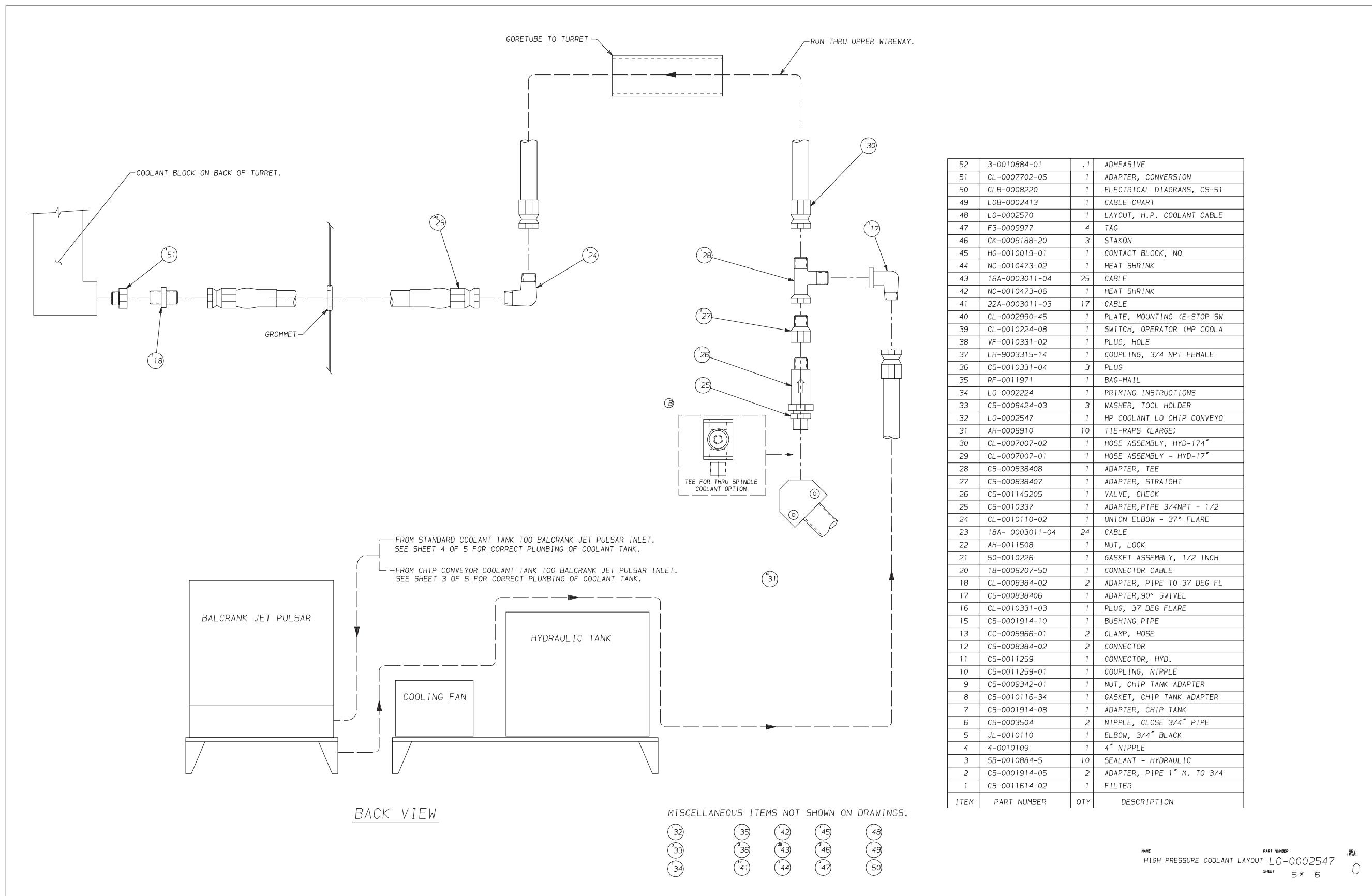
32	CD-0004629	1	PIN, DOWEL
31	R-0008044	4	PIN, ESCUTCHEON
30	CS-0001535-M	1	LABEL MODULE NUMBER
29	KL-0001535	1	PLATE, SERIAL NUMBER
28	NC-0010884	.01	LOCTITE 242
27	V5-0010440	.10	LUBRICANT
26	CL-0006317	1	KEY, PULLEY
25	CL-0003177-F	1	FLANGE, PULLEY
24	HS-0010994-SL	11	GREASE
23	CLA-0000264-BB	1	HEADSTOCK
22	MS-0553814	1	M8 SCREW, SOC SET CUP PT x 8mm
21	CL-0006317-02	1	KEY, PULLEY TIMING
20	MS-0103624	12	M6 SCREW, SOC HD CP x 50mm LG
19	NC-0010884-01	.18	LOCTITE #222
18	MS-0103617	6	M6 SCREW, SOC HD CAP x 16mm LG
17	NT-0006708	2	1/4" DIA x 1" PULLOUT DOWEL
16	CL-0000284-01	1	SCREW, COLLET KEY
15	CL-0003177-04	1	PULLEY, TIMING
14	CL-0011920-02	1	BUTTON, DRIVING
13	CL-0011920-03	1	SCREW, BUTTON
12	CL-0004068-04	1	NUT, SPINDLE
11	CL-0004053-04	1	PULLEY, SPINDLE
10	CL-0004068-05	1	NUT, SPINDLE
9	CL-0000275-02	1	REAR, CAP
8	CL-0000265-02	1	BEARING, CYLINDRICAL ROLLER
7	CL-0010481-06	1	SPACER, BEARING-REAR
6	CL-0004068-06	1	NUT, SPINDLE
5	CL-0010116-45	1	GASKET, FRONT CAP
4	CL-0000265-03	1	BEARING SET
3	CL-0010389-BB	1	SPACER ASSY, BIG BORE
2	CL-0000275-03	1	CAP, FRONT
1	CL-0000283-BB	1	SPINDLE, BIG BORE
ITEM	PART NUMBER	QTY	DESCRIPTION

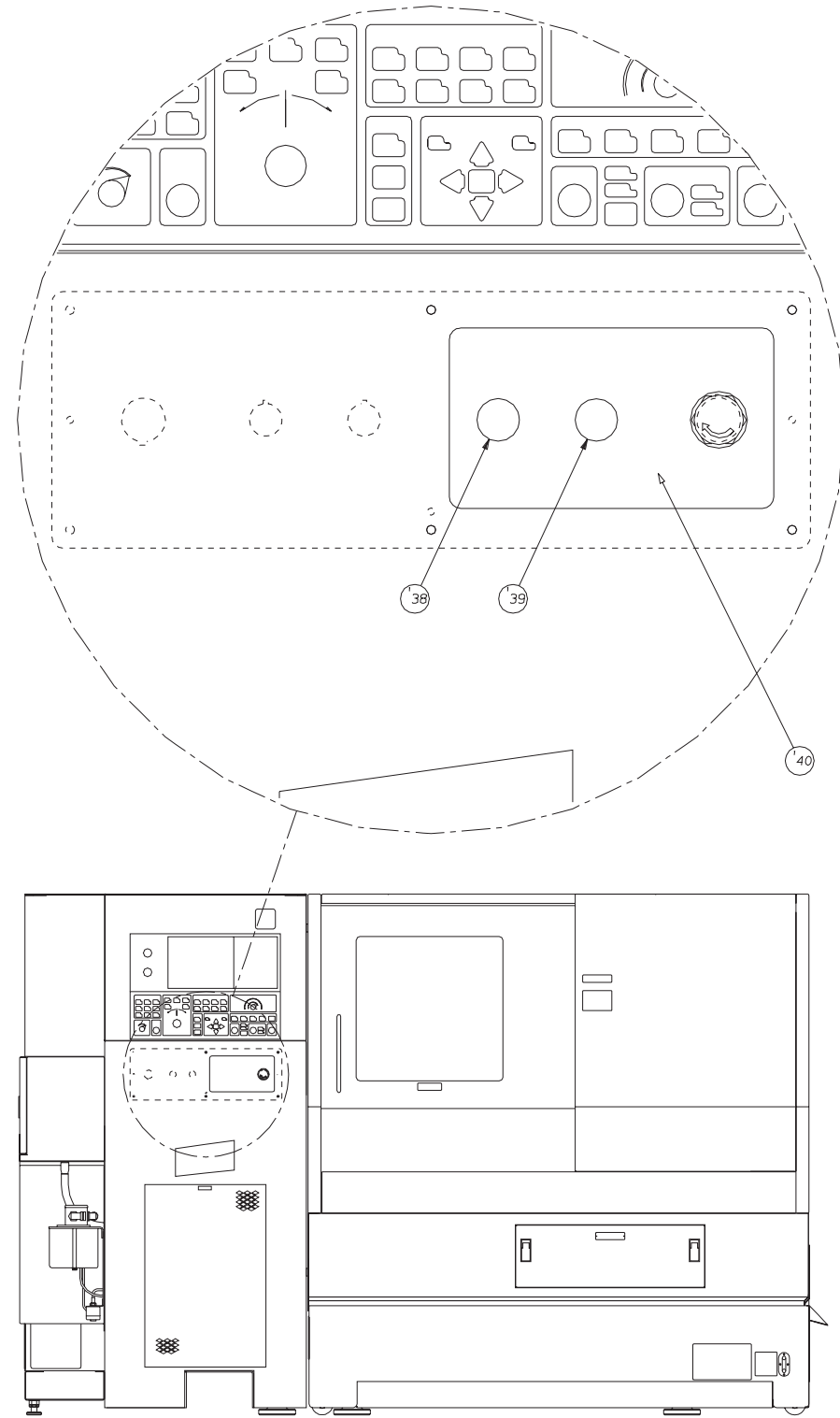
NAME HEADSTOCK ASSEMBLY (BIG BORE) PART NUMBER CLA-0000002-BB REV LEVEL SHEET 2 of 2 B



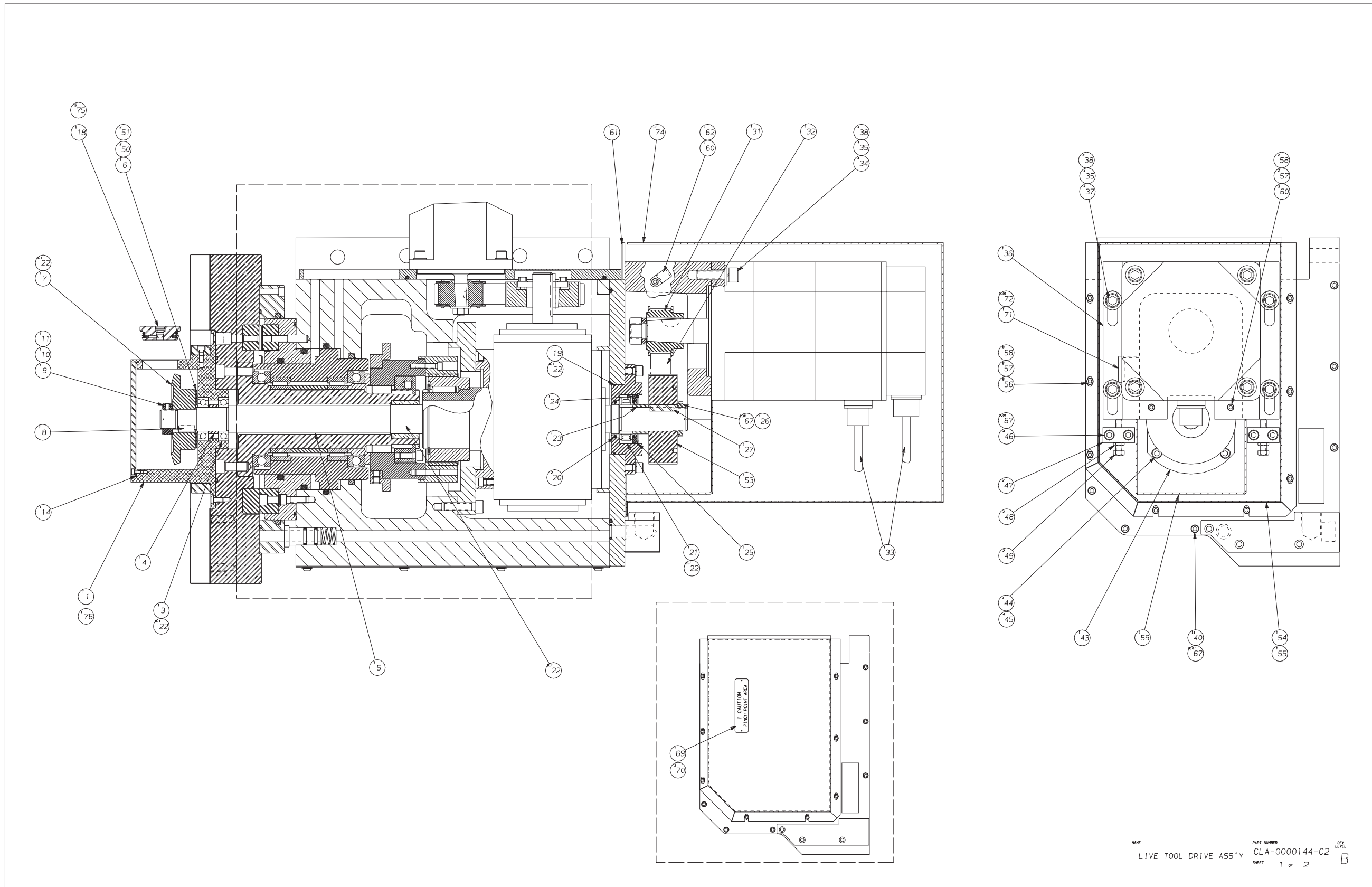
NAME HIGH PRESSURE COOLANT LAYOUT PART NUMBER L0-0002547 REV LEVEL B SHEET 3 of 6







NAME	PART NUMBER	REV
HIGH PRESSURE COOLANT LAYOUT	L0-0002547	LEVEL
SHEET	6 OF 6	0



NAME: LIVE TOOL DRIVE ASS'Y
 PART NUMBER: CLA-0000144-C2
 SHEET: 1 of 2
 REV LEVEL: B

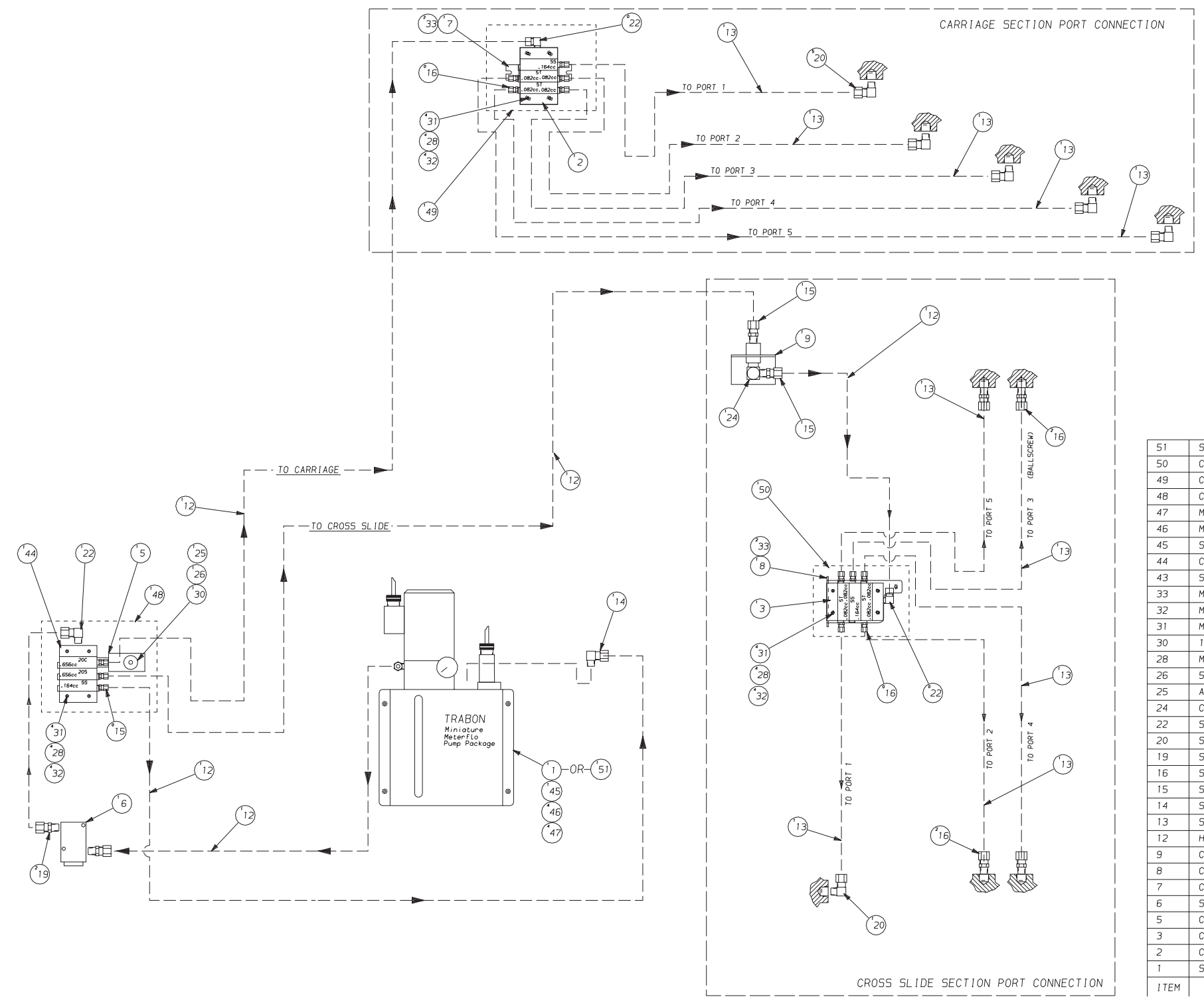
Live Tool Drive Assembly

76	CL-0003291-T1	1	STOP, LIVE TOOLING
75	CS-0012036-A	5	PLUG ASSY.
74	GE-0010884	0	SILICONE
72	LT-0010884-S	0	SEALANT, PIPE 1"
71	HM-0009215	1	PLUG, PIPE
70	R-0008044	2	PIN, ESCUTCHEON
69	CS-0010302-02	1	TAG, CAUTION PINCH POINT AREA
67	NC-0010884	0	LOCTITE, 242
62	CN-0008104	1	CABLE CLAMP
61	CL-0010116-29	1	GASKET, BOTTOM LIVE TOOLING
60	MS-0303516	3	BUTTON HD SOC M5 X 12MM
59	CL-0010115-48	1	COVER, BELT
58	MW-0183510	10	WASHER, M5 LOCK
57	MW-0103510	10	WASHER, M5 FLAT
56	MS-0303515	8	SCREW, M5 BT. HD X10MM
55	CL-0010115-46	1	COVER, LIVETOOL MOTOR
54	CLA-0010116-26	1	GASKET, L.T. MOTOR COVER
53	CL-0003177-72	1	PULLEY 72T
51	CL-0001799-25	2	SHIMS, .003" THICK
50	CL-0001799-24	2	SHIMS, .002" THICK
49	MS-0153822	2	SCREW, HEX, HD CAP M8X40MM
48	MN-0153810	2	NUT, HEX. 936 LOW M8
47	CS-0011320-02	2	BLOCK, PLATE ADJUSTING
46	MS-0103821	4	SCREW, SOC HD CAP M8
45	MW-0193810	4	WASHER, LOCK M8
44	MS-0103820	4	SCREW, SKHD M8 X 30MM
43	CL-0011489	1	SUPPORT, BEARING
40	MS-0103619	14	SCREW, SKHD M6 X 25MM
38	CL-0002840-01	8	WASHER, FLAT REGULAR HARD
37	MS-0104226	4	SCREW, SKHD M12 X 60MM
36	CL-0011797	1	MOTOR MOUNT, LIVE TOOLING
35	MW-0184210	8	WASHER LOCK, M12
34	MS-0104221	4	SCREW, SKHD M12X40MM
33	LD-0002670	1	LAYOUT, CABLES CS-51
32	CL-0003346-12	1	BELT, GT 500MM LONG
31	CL-0003177-36-A	1	PULLEY ASSEMBLY, 36 TEETH
27	CL-0007533-01	1	KEY, DRIVE SPINDLE
26	CS-0000492-02	1	NUT, LOCK
25	2440008231-01	1	RING, RETAINER
24	CS-0011269	1	RETAINER, SEAL
23	CL-0010111-01	1	SPACER, BEARING
22	CS-0010994	0	GREASE
21	CS-0004140-02	1	BEARING
20	CS-0011198-05	2	SEAL, RING
19	CSA-0009431-18	1	O-RING
18	CS-0012036-A	6	PLUG ASSY
14	OR-0008891	1	O-RING, 5.5" ID X 3/32" WIDE
11	0550303	1	SET SCREW
10	CH-0004732	1	PLUG
9	SB-0000260-01	1	INNER RACE NUT
8	CS-0007533-01	1	KEY, DRIVE SPINDLE
7	CL-0001892	1	GEAR, SPIRAL BEVEL
6	CL-0001799-04	1	SPACER
5	CL-0003948-03	1	DRIVE SPINDLE
4	CL-0001799-03	1	SPACER, BEARING
3	CL-0000266	1	BEARING, PAIR
1	CL-0003291-T	1	STOP, LIVE TOOLING
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
ASSEMBLY, LIVE TOOL DRIVE

PART NUMBER
CLA-0000144-C2
SHEET 2 of 2

REV
LEVEL
B

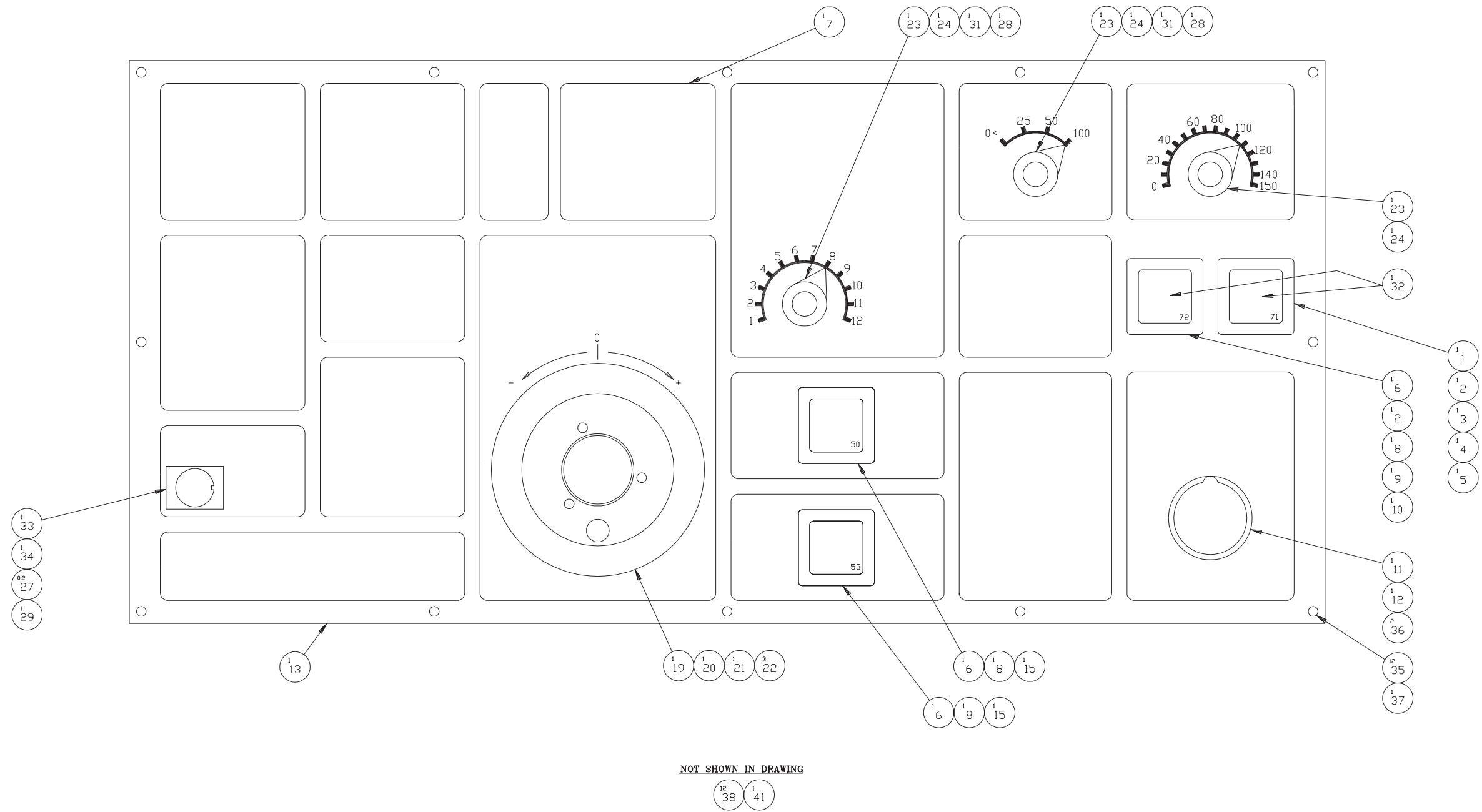


ITEM	PART NUMBER	QTY	DESCRIPTION
51	SG-0000234-CE	1	LUBRICATOR - CE
50	CL-0010234-TCS	1	CROSS SLIDE - TRABON
49	CL-0010234-TC	1	CARRIAGE LUBE - TRABON
48	CL-0010234-TM	1	MASTER LUBE - TRABON
47	MW-0193810	4	M8 WASHER LOCK
46	MS-0103818	4	M8 SCREW SKHD X 20 MM
45	SG-0002990-32T1	1	BRACKET LUBE BRACKET
44	CL-0010234-12	1	BLOCK, MANIFOLD-MASTER
43	SB-0010884-5	1	SEALANT, HYDRAULIC
33	MS-0103419	4	SCREW, SHCS M4-0.70 x 25m
32	MW-0183610	12	M6 REG. LOCKWASHER
31	MS-0103622	12	SCREW, 50C HD CAP M6-1.0 X
30	18-0009207-50	1	GRIP, CORD .187-.312 1/2 D
28	MW-0103610	12	WASHER, FLAT M6-1.0 5T
26	50-0010226	1	GASKET ASSEM. 1/2 INCH
25	AH-0011508	1	NUT, LOCK
24	CT-0007709-01	1	ELBOW, 90 DEG.
22	SG-0007702-A6	1	MALE ELBOW 1/40D x 1/4NPT
20	SG-0007702-A12	6	SW ELBOW 5/320D X 1/8NPT
19	SG-0007702-A3	2	MALE CONN 1/40D x 1/4NPT
16	SG-0007702-A10	4	MALE CON. 5/320D X 1/8NPT
15	SG-0007702-A2	2	MALE CONN 1/40D x 1/8NPT
14	SG-0007702-A8	1	SW ELBOW 5/320D X 1/8NPT
13	SG-0007007-T	10	TUBING, 5/32 OD
12	HG-0007007-02	5	TUBING, 1/4 OD
9	CL-0002990-34	1	BRACKET, LUBE LINE
8	CL-0003990-84	1	BRACKET, CROSS SLIDE LUBE
7	CL-0003990-85	1	BRACKET, CARRIAGE LUBE
6	SG-0011614-T	1	FILTER
5	CS-0010274	1	CYCLE SWITCH TRABON #510-
3	CL-0010234-07	1	BLOCK, MANIFOLD-CROSS SLI
2	CL-0010234-08	1	BLOCK, MANIFOLD-CARRIAGE
1	SG-0000234-D	1	LUBRICATOR

NAME
TRABON LUBE
CL LONG BED

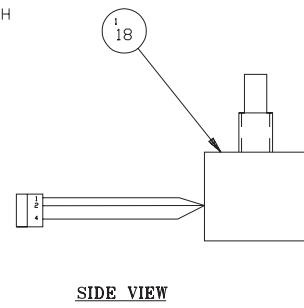
PART NUMBER
CL-0000234-TLB
SHEET 1 OF 1
REV LEVEL
A

Operator Panel (CE Mark)

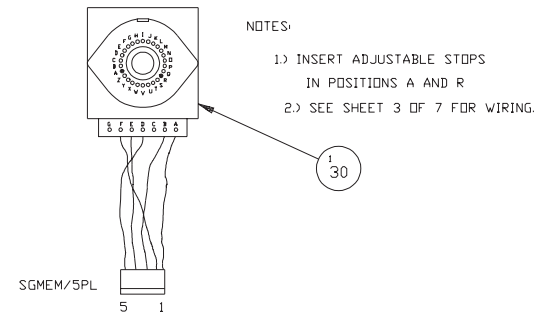


MTB PANEL ASSEMBLY (CE MARK)
CLA-0011844-18 E

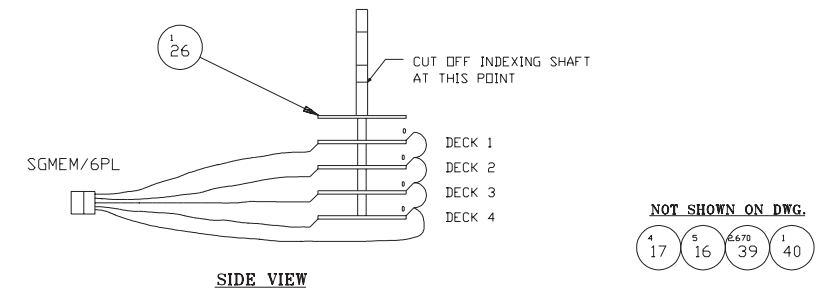
1/2 RAPID OVERRIDE SWITCH



1/2 FEEDRATE 1

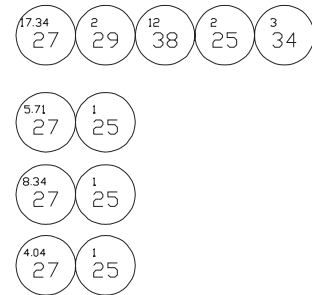


TURRET INDEX SWITCH

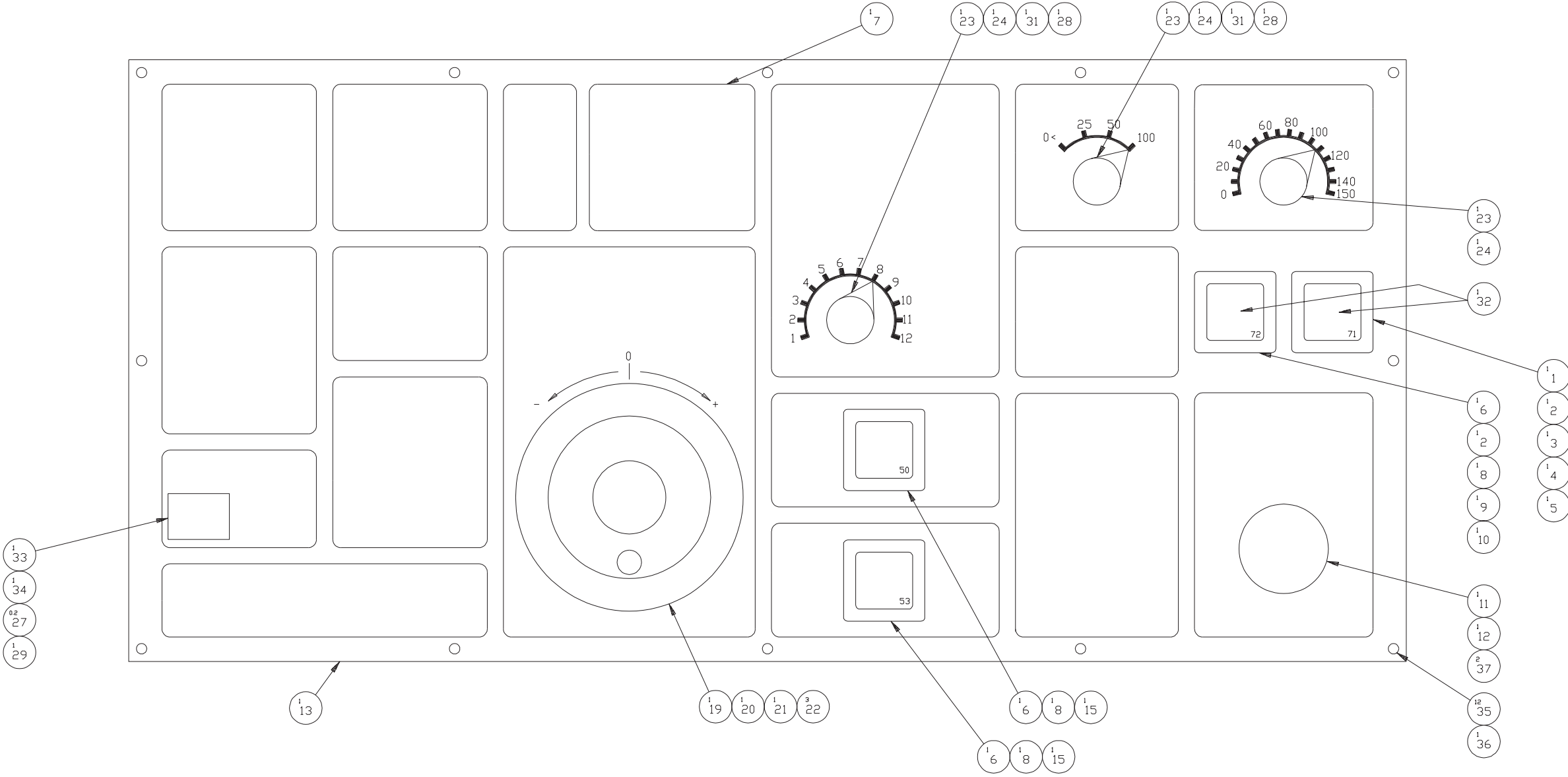


MTB PANEL ASSEMBLY (CE MARK)
 CLA-0011844-18 E

Operator Panel (CE Mark)



ITEM	PART NUMBER	QUANTITY	DESCRIPTION	ASSEMBLY	LINK	DWG.SZ.
1	LC 0003650GE24	1.0000	SWITCH, OPERATOR, SQUARE,EXTD	SEE ASSY NZ	MA	N
2	LC 0003650GE05	2.0000	SWITCH, LIGHT UNIT	SEE ASSY NZ	MA	N
3	LC 0003650GE02	1.0000	SWITCH, CONTACT BLOCK, INC	SEE ASSY NZ	MA	N
4	LC 0003650GE06	1.0000	SWITCH, LED, 24VDC, RED	SEE ASSY NZ	MA	A
5	LC 0003650GE21	1.0000	SWITCH, LENS, SQUARE, RED	SEE ASSY NZ	MA	N
6	LC 0003650GE25	3.0000	SWITCH, OPERATOR, SQUARE,FLSH	SEE ASSY NZ	MA	N
7	CS 001036634	1.0000	TAG, CONQUEST QT-C COVER-UP	SEE ASSY NZ	MA	A
8	LC 0003650GE01	3.0000	SWITCH, CONTACT BLOCK, IND	SEE ASSY NZ	MA	N
9	LC 0003650GE04	1.0000	SWITCH, LED, 24VDC, GREEN	SEE ASSY NZ	MA	A
10	LC 0003650GE20	1.0000	SWITCH, LENS, SQUARE, GREEN	SEE ASSY NZ	MA	N
11	SG 000365012	1.0000	SWITCH, E-STOP 3 POS	SEE ASSY NZ	MA	N
12	CN 0010116 B	1.0000	GASKET, E STOP SWITCH	SEE ASSY NZ	MA	A
13	SG 0011844PE	1.0000	MTB PANEL - SG-CEMARK	SEE ASSY NZ	MA	D
15	LC 0003650GE19	2.0000	SWITCH, LENS, SQUARE, CLEAR	SEE ASSY NZ	MA	N
16	AH 0009910	5.0000	TY RAP	SEE ASSY NZ	MA	N
17	LM 0008104	4.0000	TY-RAP	SEE ASSY NZ	MA	N
18	CN 000283403	1.0000	SWITCH, ROTARY (12 POSITIONS)	SEE ASSY NZ	MA	N
19	FCA0011796	1.0000	GENERATOR, MANUAL PULSE	SEE ASSY NZ	MA	A
20	CN 0010116PG	1.0000	GASKET, MPG	SEE ASSY NZ	MA	B
21	CNA001150501	1.0000	RETAINER, MPG	SEE ASSY NZ	MA	B
22	MS 0453441	3.0000	SCREW, FL.HD.SLOT M4X.7X14MM	SEE ASSY NZ	MA	N
23	CS 0006578	3.0000	KNOB	SEE ASSY NZ	MA	N
24	CN 001011697	3.0000	GASKET, ROTARY SWITCH	SEE ASSY NZ	MA	A
25	CN 00120425R	5.0000	RECEPTACLE, 5 POS	SEE ASSY NZ	MA	N
26	CN 000283404	1.0000	SWITCH, ROTARY (18 POSITIONS)	SEE ASSY NZ	MA	N
27	2210002874BU	35.6300	WIRE, DARK BLUE	SEE ASSY NZ	MA	N
28	CS 0007910	2.0000	WASHER	SEE ASSY NZ	MA	N
29	CN 000918802	3.0000	STAKON, F.TAB.,11 X .02,22-1	SEE ASSY NZ	MA	N
30	CS 000283402	1.0000	SWITCH, BCD ENCODER ROTARY	SEE ASSY NZ	MA	N
31	CS 000406803	2.0000	NUT	SEE ASSY NZ	MA	N
32	SG 0010366KCE	1.0000	TAG, KIT-CEMARK SG, CL, HG, VL	SEE ASSY NZ	MA	A
33	CN 000283407	1.0000	SWITCH, KEYLOCK	SEE ASSY NZ	MA	N
34	CN 00120422R	4.0000	2 POS. RECEPTACLE	SEE ASSY NZ	MA	N
35	MS 0303315	12.0000	SCREW, BUTTON HD. M3X.5X10MM	SEE ASSY NZ	MA	N
36	SG 0010019	2.0000	BLOCK, CONTACT	SEE ASSY NZ	MA	N
37	RF 0011971	1.0000	BAG - MAIL	SEE ASSY NZ	MA	N
38	CK 000918820	24.0000	FERRULES, 20 AWG	SEE ASSY NZ	MA	N
39	SG 0011622	2.670	SLEEVE, PLASTIC COIL 3/16"-2	SEE ASSY NZ	MA	N
40	SG 0003011CEMP	1.0000	CABLE PACKAGE, CL-CE-MARK	SEE ASSY NZ	MA	N
41	CL 0003011CEMP	1.0000	CABLE PACKAGE-MEMBRANE PANEL	SEE ASSY NZ	MA	N



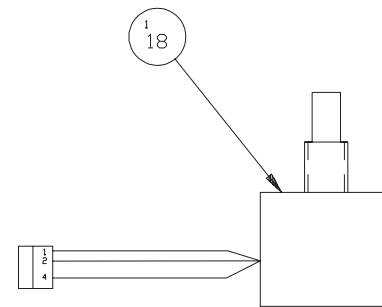
NOT SHOWN IN DRAWING

12
38

MTB PANEL ASSEMBLY
CLA-0011844-EN A

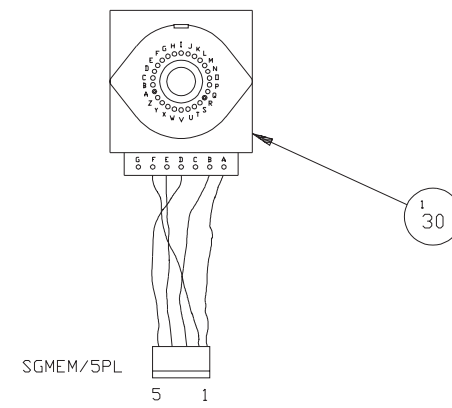
NOT SHOWN
 4 5 6 7 8 9 10 11 12 13 14 15
 17 16 39 40

% RAPID OVERRIDE SWITCH

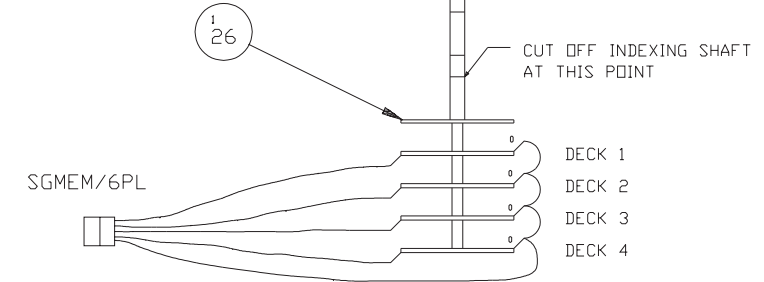


SIDE VIEW

% FEEDRATE 1

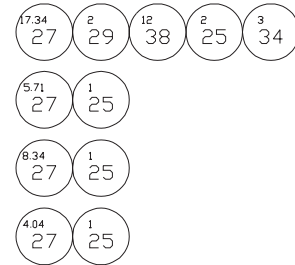


TURRET INDEX SWITCH



SIDE VIEW

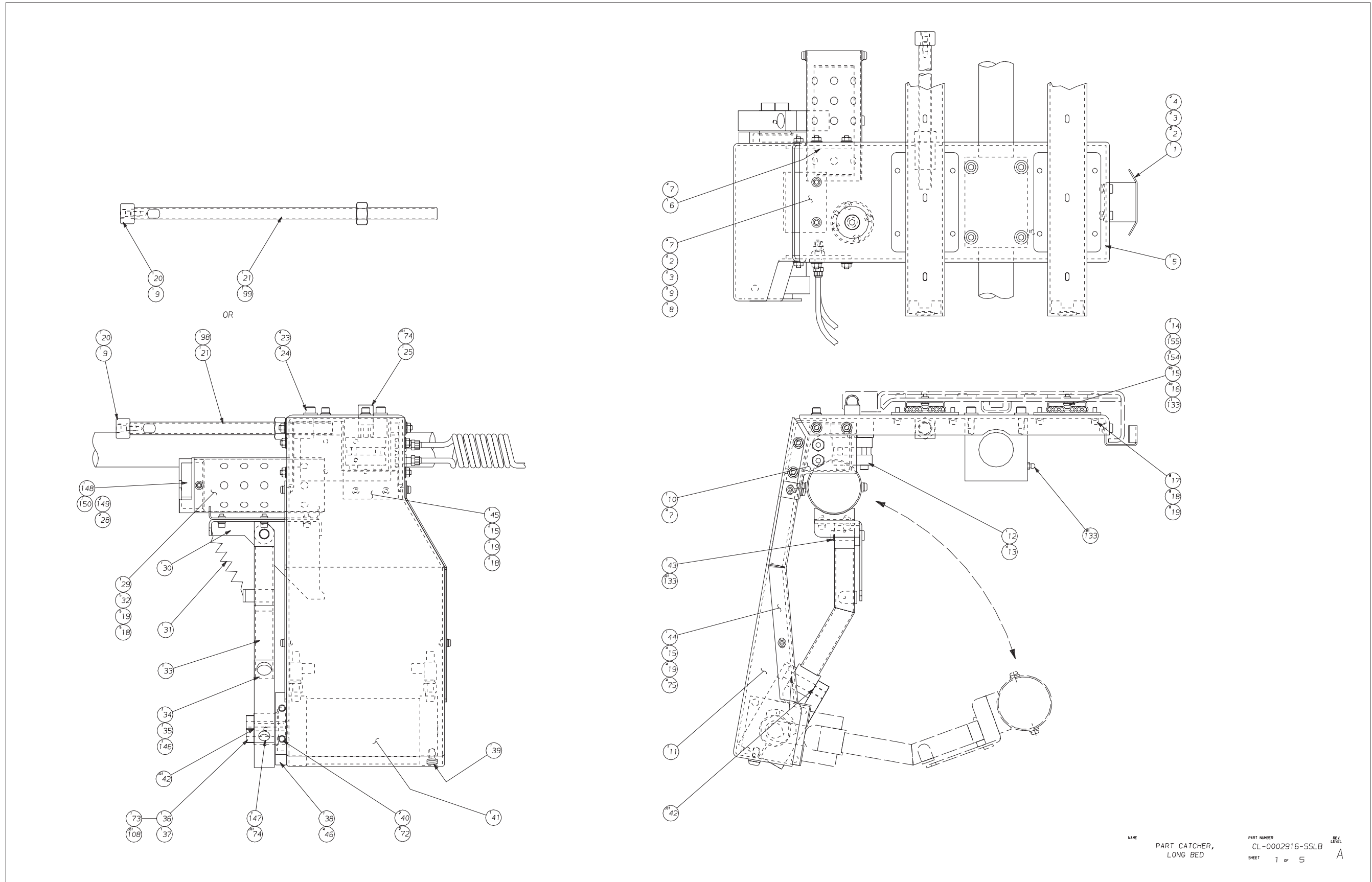
MTB PANEL ASSEMBLY
 CLA-0011844-EN A

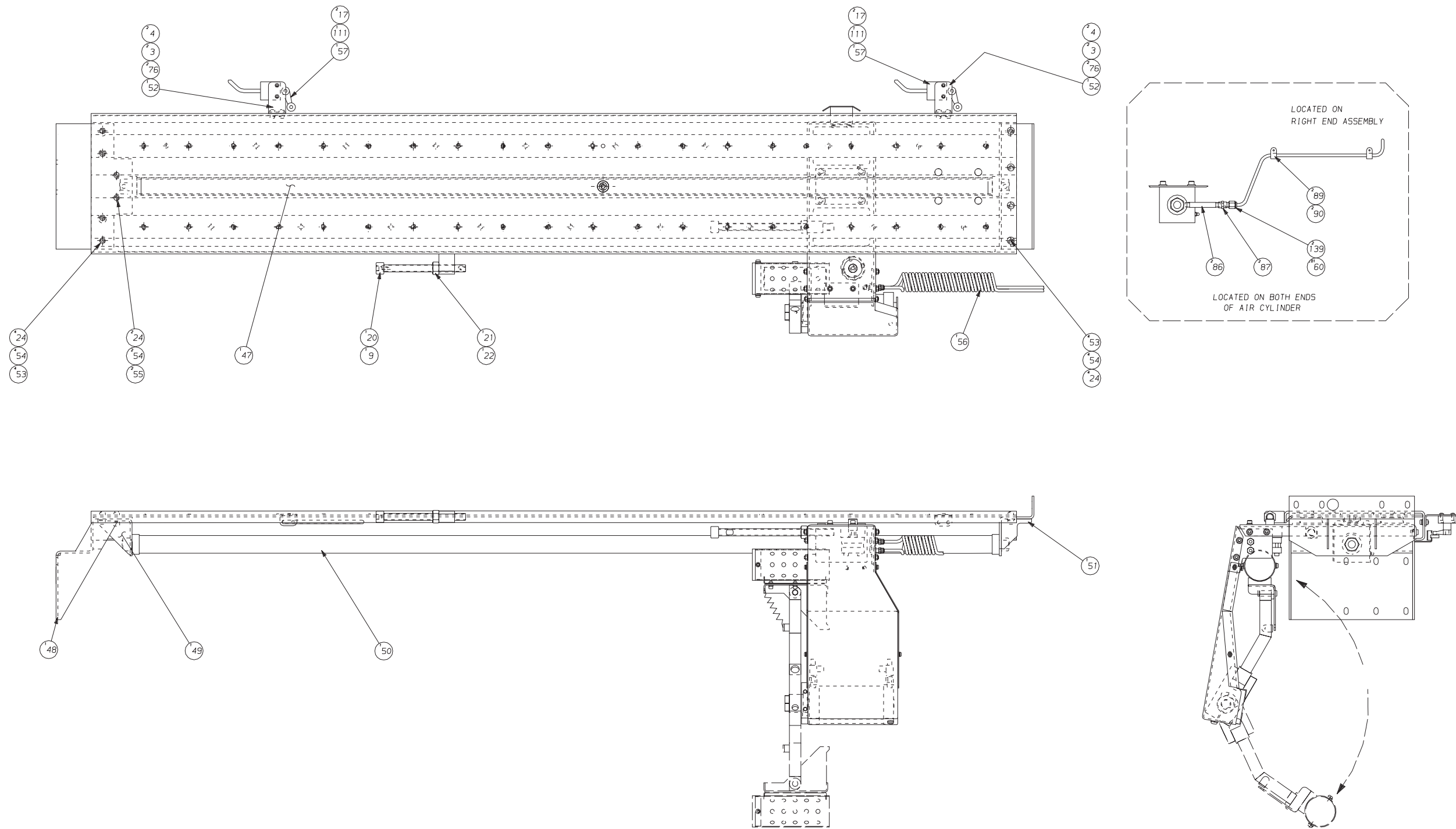


ITEM	PART NUMBER	QUANTITY	DESCRIPTION	ASSEMBLY	LINK	DWG.SZ.
1	LC 0003650GE24	1.0000	SWITCH, OPERATOR, SQUARE,EXTD	SEE ASSY NO.	MA	N
2	LC 0003650GE05	2.0000	SWITCH, LIGHT UNIT	SEE ASSY NO.	MA	N
3	LC 0003650GE02	1.0000	SWITCH, CONTACT BLOCK, INC	SEE ASSY NO.	MA	N
4	LC 0003650GE06	1.0000	SWITCH, LED, 24VDC, RED	SEE ASSY NO.	MA	A
5	LC 0003650GE21	1.0000	SWITCH, LENS, SQUARE, RED	SEE ASSY NO.	MA	N
6	LC 0003650GE25	3.0000	SWITCH, OPERATOR, SQUARE,FLSH	SEE ASSY NO.	MA	N
7	CS 001036634	1.0000	TAG, CONQUEST OT-C COVER-UP	SEE ASSY NO.	MA	A
8	LC 0003650GE01	3.0000	SWITCH, CONTACT BLOCK, IND	SEE ASSY NO.	MA	N
9	LC 0003650GE04	1.0000	SWITCH, LED, 24VDC, GREEN	SEE ASSY NO.	MA	A
10	LC 0003650GE20	1.0000	SWITCH, LENS, SQUARE, GREEN	SEE ASSY NO.	MA	N
11	SG 000365012	1.0000	SWITCH, E-STOP 3 POS	SEE ASSY NO.	MA	N
12	CN 0010116 B	1.0000	GASKET, E STOP SWITCH	SEE ASSY NO.	MA	A
13	SG 0011844EN	1.0000	SG/CL MTB PANEL ENGLISH	SEE ASSY NO.	MA	D
15	LC 0003650GE19	2.0000	SWITCH, LENS, SQUARE, CLEAR	SEE ASSY NO.	MA	N
16	AH 0009910	5.0000	TY RAP	SEE ASSY NO.	MA	N
17	LM 0008104	4.0000	TY-RAP	SEE ASSY NO.	MA	N
18	CN 000283403	1.0000	SWITCH, ROTARY <12 POSITIONS	SEE ASSY NO.	MA	N
19	FCA0011796	1.0000	GENERATOR, MANUAL PULSE	SEE ASSY NO.	MA	A
20	CN 0010116PG	1.0000	GASKET, MPG	SEE ASSY NO.	MA	B
21	CNA001150501	1.0000	RETAINER, MPG	SEE ASSY NO.	MA	B
22	MS 0453441	3.0000	SCREW, FL.HD.SLOT M4X.7X14MM	SEE ASSY NO.	MA	N
23	CS 0006578	3.0000	KNOB	SEE ASSY NO.	MA	N
24	CN 001011697	3.0000	GASKET, ROTARY SWITCH	SEE ASSY NO.	MA	A
25	CN 00120425R	5.0000	RECEPTACLE, 5 POS	SEE ASSY NO.	MA	N
26	CN 000283404	1.0000	SWITCH, ROTARY <18 POSITIONS	SEE ASSY NO.	MA	N
27	2210002874BU	35.6300	WIRE	SEE ASSY NO.	MA	N
28	CS 0007910	2.0000	WASHER	SEE ASSY NO.	MA	N
29	CN 000918802	3.0000	STAKON, F.TAB.,11 X .02,22-1	SEE ASSY NO.	MA	N
30	CS 000283402	1.0000	SWITCH, BCD ENCODER ROTARY	SEE ASSY NO.	MA	N
31	CS 000406803	2.0000	NUT	SEE ASSY NO.	MA	N
32	SG 0010366KCE	1.0000	TAG, KIT-CEMARK SG, CL, HG, VL	SEE ASSY NO.	MA	A
33	CN 000283407	1.0000	SWITCH, KEYLOCK	SEE ASSY NO.	MA	N
34	CN 00120422R	4.0000	2 POS. RECEPTACLE	SEE ASSY NO.	MA	N
35	MS 0303315	12.0000	SCREW, BUTTON HD. M3X.5X10MM	SEE ASSY NO.	MA	N
36	RF 0011971	1.0000	BAG - MAIL	SEE ASSY NO.	MA	N
37	SG 0010019	2.0000	BLOCK, CONTACT	SEE ASSY NO.	MA	N
38	CK 000918820	24.0000	FERRULES, 20 AWG	SEE ASSY NO.	MA	N
39	SG 0011622	2.6700	SLEEVE, PLASTIC COIL, 3/16"-2"	SEE ASSY NO.	MA	N
40	SG 0003011CEMP	1.0000	CABLE PACKAGE, CL-CE-MARK	SEE ASSY NO.	MA	N

MTB PANEL ASSEMBLY
CLA-0011844-EN A

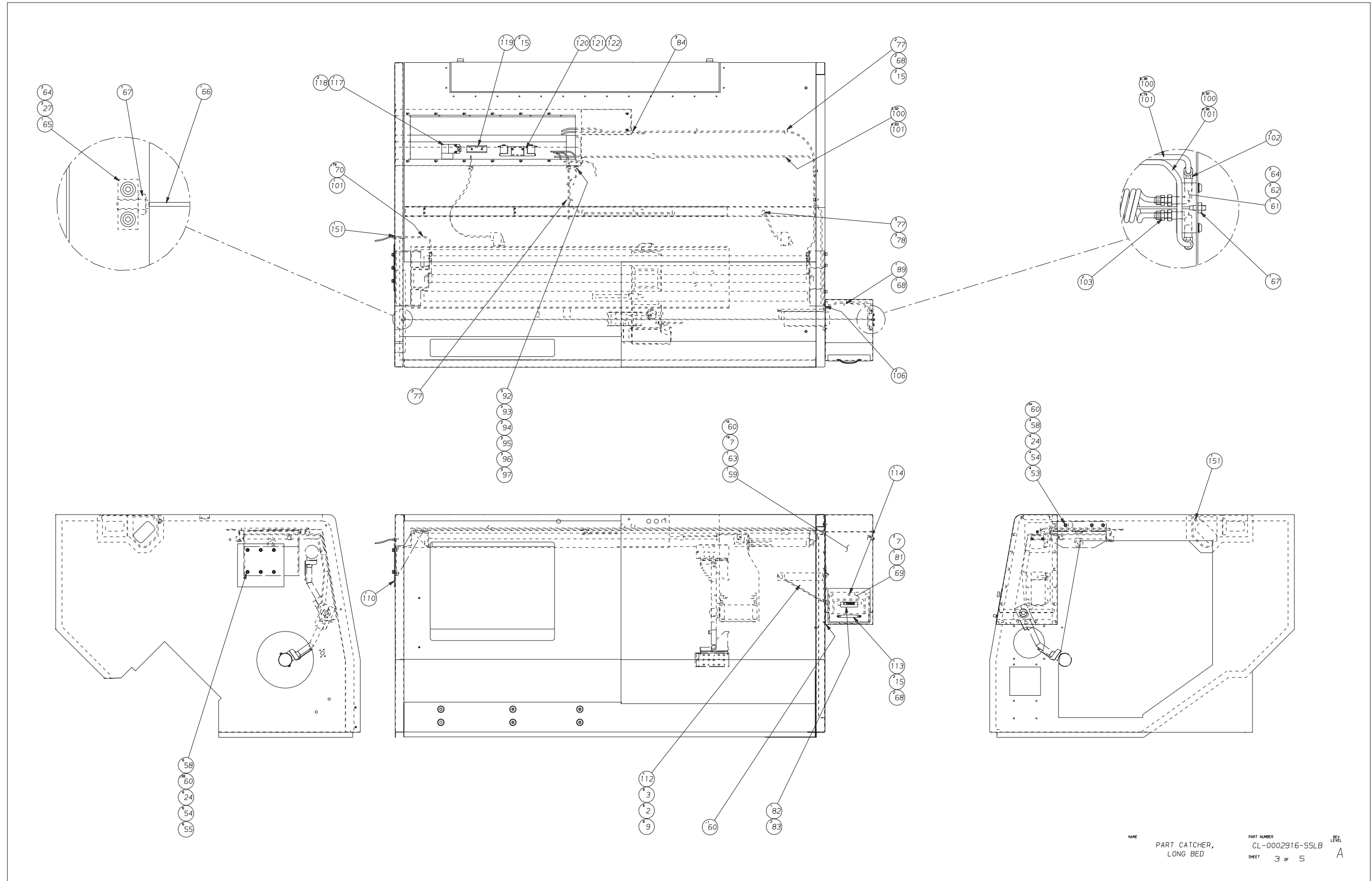
Part Catcher





NAME PART CATCHER, LONG BED PART NUMBER CL-0002916-SSLB REV LEVEL A SHEET 2 of 5

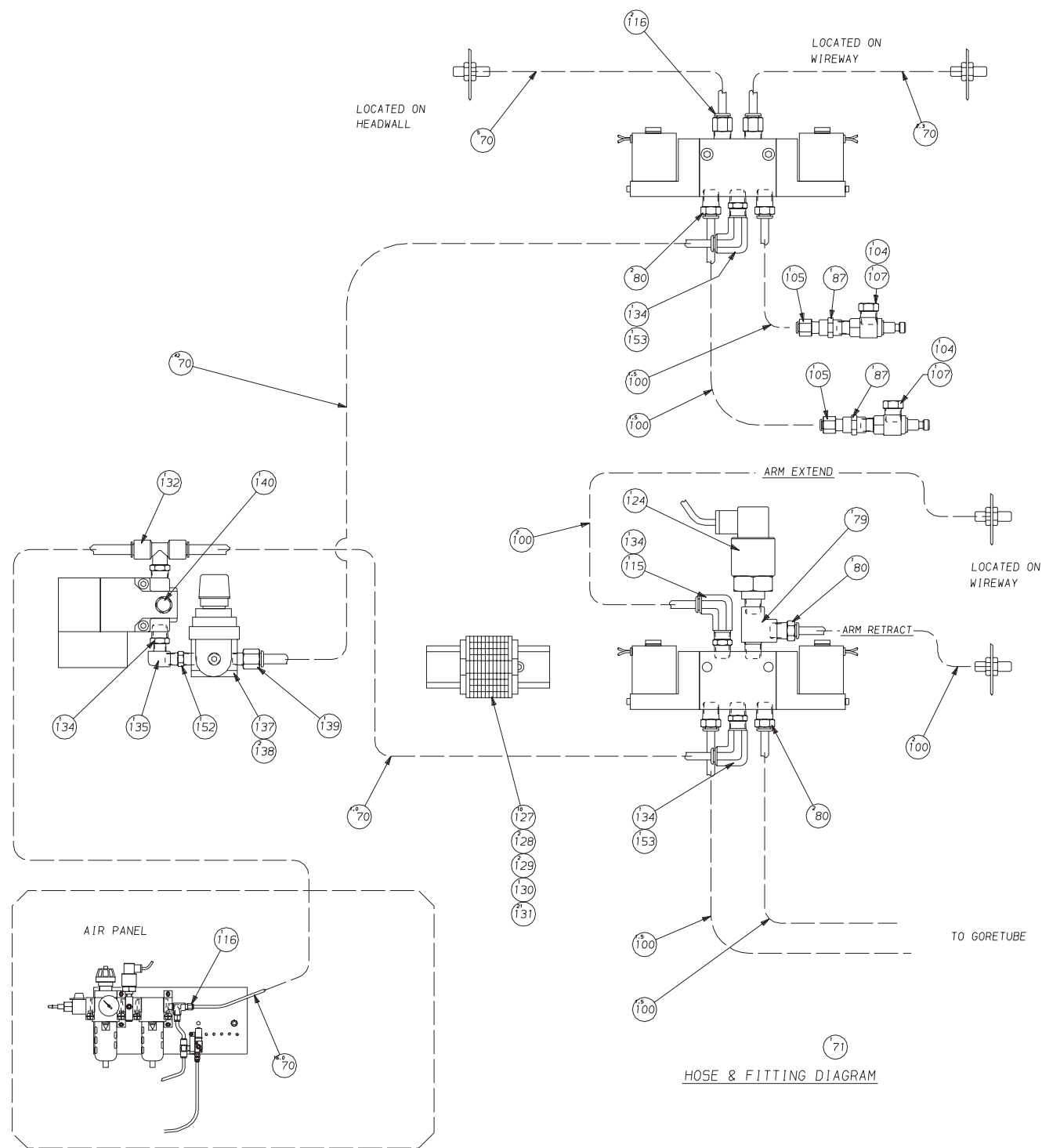
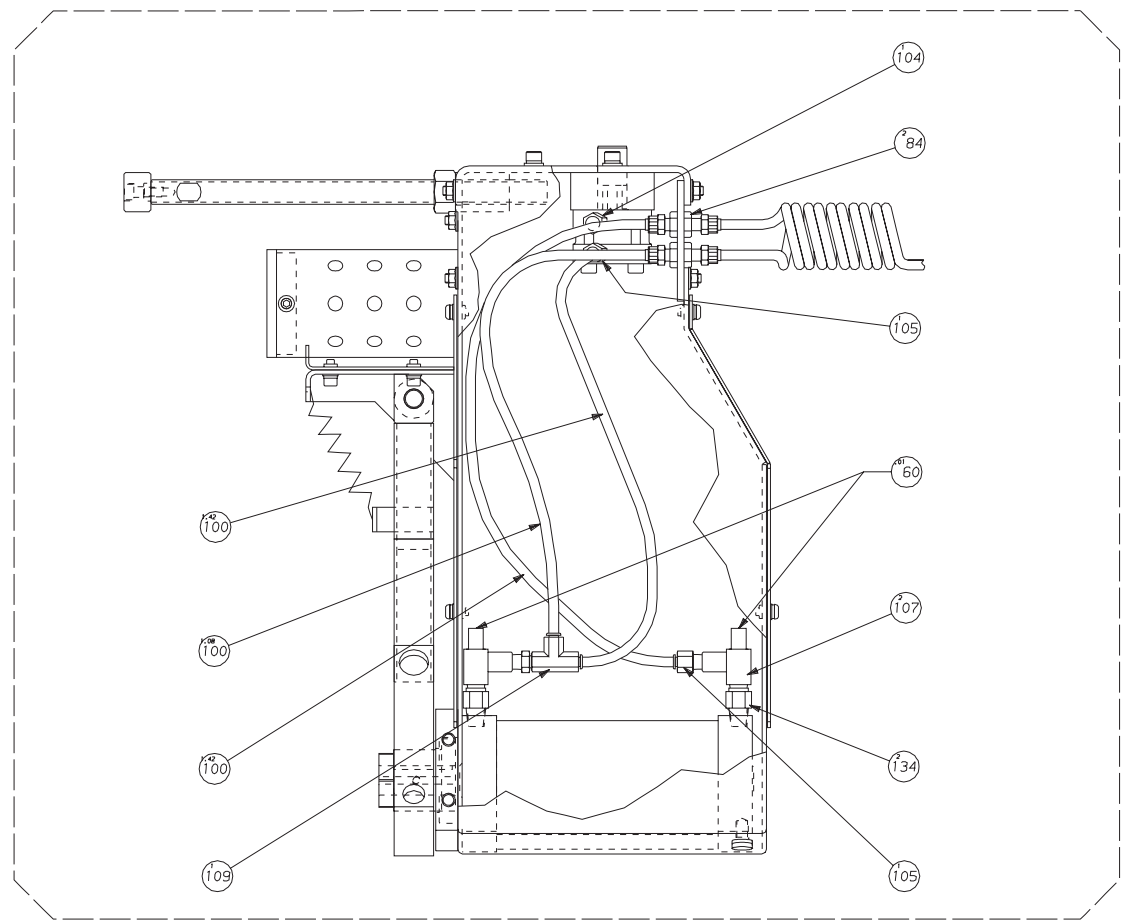
Part Catcher



NAME PART CATCHER,
LONG BED

PART NUMBER CL-0002916-SSLB
SHEET 3 of 5

REV
A



NAME	PART CATCHER LONG BED	PART NUMBER	CL-0002916-SSLB	REV	A
SHEET	4 of 5				

Part Catcher

NOTE: PARTS NOT SHOWN ON DRAWING.



155	CL-0006463-RC	2	PLATE, JOINING
154	CL-0006463-LB	2	RAIL, EXTENSION
153	CL-0007702-03	2	ELBOW, 90° MALE SWIVEL
152	KH-0003504-01	1	NIPPLE, ST.
151	CL-0007702-12	2	CONNECTOR, BULKHEAD 5/16"
150	RF-0011971	1	BAG, MAIL
149	MS-0303614	2	M6 SCREW, BUTT HD x 8mm
148	CLA-0011750-01	1	END CAP
147	MS-0103823	1	M8 SCREW, SKHD CP x 45mm
146	MW-0194210	1	M12 WASHER, LOCK
145	F3-0009977-01	11	TAG
144	LOB-0002507	1	PNEUMATIC SCHEMATIC
143	F3-0009977	4	TAG
142	LO-0002672-R	1	TAGS, ID
141	LO-0002672-Q	1	CABLE, LO
140	5-0001914	1	PLUG, PIPE 1/4
139	HG-0007702	3	CONNECTOR, MALE 1/8
138	5-0001467	2	PLUG, PIPE 1/8
137	AH-0010779	1	REGULATOR
135	CT-0007709-01	1	ELBOW, ST 1/8 TO 1/8
134	AUA-0010785	6	BUSHING, ADAPTER
133	CS-0010994	.12	GREASE
132	CL-0010786-08	1	TEE, BRANCH
131	22A-0003011-10	21	CABLE
130	HG-0011032-05	1	JUMPER
129	HG-0011032-03	2	PLATE, END
128	HG-0011032-04	2	STOP, END
127	HG-0011032-01	10	TERMINAL BLOCK, BLUE
124	HGA-0011736	1	SWITCH, PRESSURE
122	MS-0103628	2	M6 SCREW, SKHD CP x 70mm
121	CL-0003048-18	1	VALVES, MAC 800 CLOSED
120	CL-0003048-17	1	VALVES, MAC 800 PRESSURE
119	CK-9011032	1	DIN RAIL
ITEM	PART NUMBER	QTY	DESCRIPTION

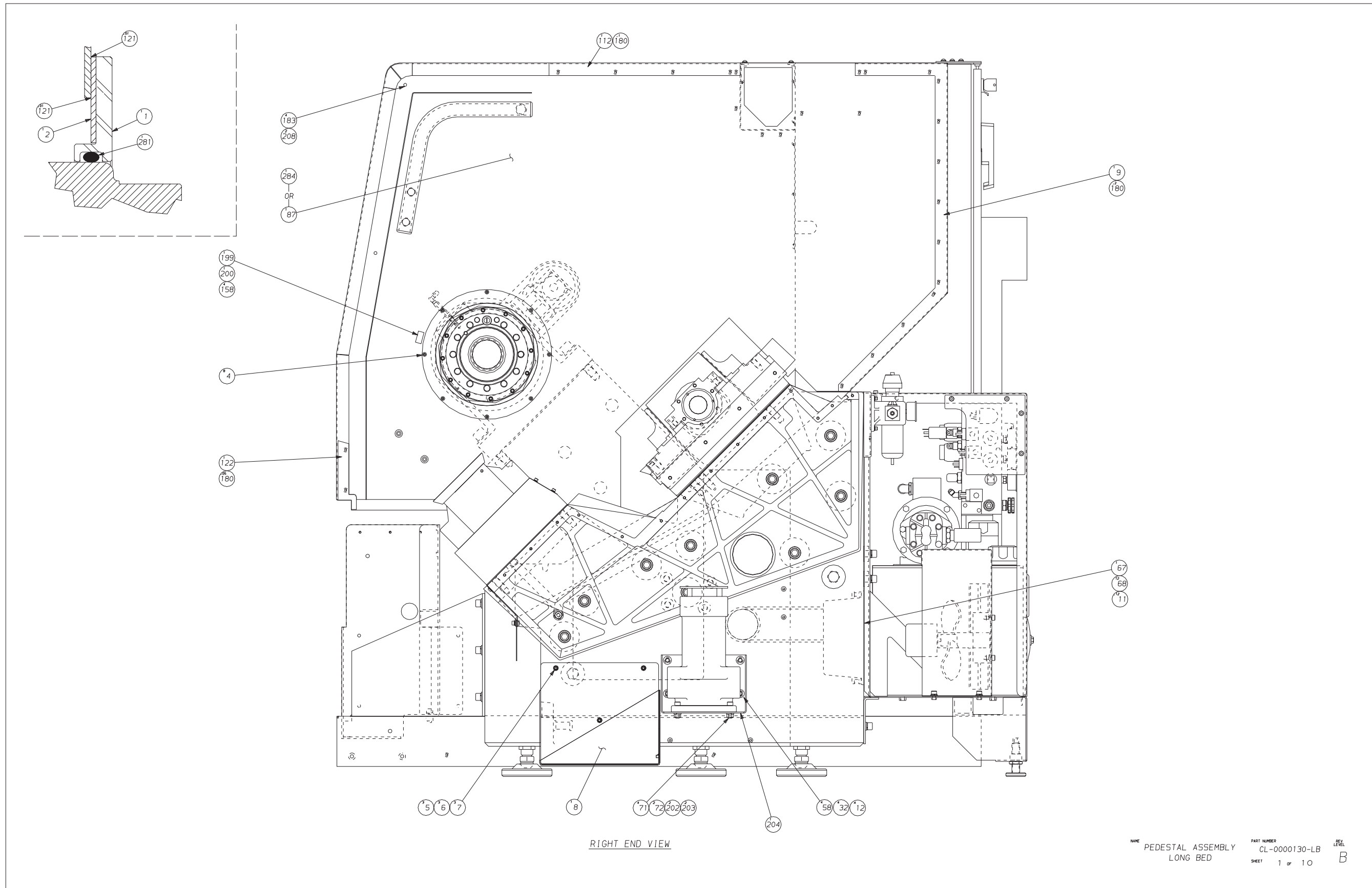
118	MS-0103524	2	M5 SCREW, SKHD CP x 50mm
117	ST-0003048	1	VALVE, MAC 200 SERIES
116	HG-0007702-03	3	CONNECTOR, MALE
115	ST-0007703	1	FITTING, AIR SWIVEL
114	CN-0011738-01	1	LATCH
113	CG-0010642	1	HANDLE
112	CL-0002916-C	1	CHUTE ASSEMBLY
111	HG-0003650-03	2	LEVER ARM, SWITCH
110	CL-0004990-70	1	STIFFENER, HEADWALL
109	HG-0007702-04	1	RUN TEE SWIVEL, MALE
108	NC-0010884-01	.01	LOCTITE #222
107	CS-0011452-01	4	FLOW CONTROL
106	NC-0009532-03	2	GROMMET, RUBBER
105	FR-0007702-04	4	CONNECTOR, MALE
104	CT-0011335	3	MUFFLER
103	268-0007702-04	2	CONNECTOR, MALE
102	FR-0007702-03	2	ELBOW, MALE 90 DEG
101	CL-0009938	15.58	SLEEVE
100	AH-0007007-NF	29.14	TUBING, 1/4"
99	CL-0004865-03	1	STOP, ADJUSTABLE
98	CL-0004865-02	1	STOP, ADJUSTABLE
97	DB-0009207-9A	3	BODY
96	DB-0009207-W	3	WASHER
95	DB-0009207-9B	3	NUT, COMPRESSION
94	AH-0011508	3	NUT, LOCK
93	50-0010226	3	WASHER, SEAL
92	DB-0009207-9F	3	GROMMET
90	MS-0303618	2	M6 SCREW, BUTT HD x 20mm
89	SB-0006966	3	TIE-DOWN
87	CT-0011096-01	4	COUPLING
86	CT-0011092-07	2	NIPPLE, LONG
84	AM-0007703	5	FITTING, BULKHEAD
83	R-0008044	2	PIN, ESCUTCHEON
82	CL-0010302-03	1	TAG, CAUTION-HEAVY WHEN F
81	CL-0004990-35	1	BUCKET, PARTS
80	FR-0007702-01	5	CONNECTOR, MALE TO 1/4
79	CL-0010786-07	1	TEE, STREET 1/4
78	MS-0303515	3	M5 SCREW, BUTT HD x 10mm
77	CF-0009623	7	CLAMP, CABLE 5/8"
76	SP-0006431-B	4	WASHER, FLAT
75	MD-0003623-B	4	WASHER, FLAT
74	NC-0010884	.02	LOCTITE #242
73	MS-0553514	1	M5 SCREW, SS CUP x 8mm
72	MS-0573814	2	M8 SCREW, SS FLAT x 8mm
71	LT-0010884-5	1	SEALANT, PIPE
70	HG-0007007	25.51	TUBING, 5/16"
69	CL-0010215-49	1	COVER, PARTS BUCKET
68	MN-0283510	5	M5 NUT, FLANGE
67	CM-0002843-B	2	1/4-28 NUT, HEX
66	CL-0011623-01LB	1	WIRE, GUIDE
65	CL-0004990-68	1	BRACKET, GUIDE WIRE
64	MW-0263610	4	M6 WASHER, STAR
63	CL-0010116-67	1	GASKET, PARTS CATCHER
62	MS-0303616	2	M6 SCREW, BUTT HD x 12mm
61	CL-0010234-21	1	MANIFOLD, BLOCK
60	GE-0010884	.38	SEALANT, SILICONE
59	CL-0004990-36	1	HOUSING, PARTS BUCKET
ITEM	PART NUMBER	QTY	DESCRIPTION

58	MN-0283810	10	M8 NUT, FLANGE
57	CSA-0010224-01	2	SWITCH, LIMIT
56	CL-0007707-08LB	1	TUBING, COIL
55	MS-0103819	8	M8 SCREW, SKHD CP x 25mm
54	MW-0103810	20	M8 WASHER, FLAT
53	MS-0103818	12	M8 SCREW, SKHD CP x 20mm
52	CL-0004990-69	2	BRACKET, LIMIT SWITCH MTG
51	CL-0002916-13	1	SUPPORT, RIGHT SIDE
50	CL-0002917-LB	1	CYLINDER, RODLESS
49	CL-0002916-17	1	BRACKET, CYLINDER
48	CL-0002916-16	1	SUPPORT, LEFT SIDE
47	CL-0002916-15LB	1	FRAME, SUPPORT
46	0100812	4	5/16-18T SCREW, SKHD x 3/
45	CL-0010215-52	1	COVER, CYLINDER
44	CL-0010215-50	1	COVER, FRAME
43	50-0008231-02	1	RING, RETAINING
42	VS-0010440	.02	GREASE, ANTI-SIEZE
41	CL-0002917-04	1	ROTARY ACTUATOR
40	MS-0573817	2	M8 SCREW, SS FLAT x 16mm
39	0300812	1	5/16-18T SCREW, BUTT HD x
38	CL-0011713	1	HOUSING, STOP
37	CL-0006115-01	1	KEY, ARM
36	CL-0011076-02	1	BUSHING, STOP
35	CL-0008230	1	BLOCK, SWIVEL
34	MS-0496122	1	M10 SCREW, SHOULDER x 40m
33	CL-0009653-A	1	ARM ASSEMBLY
32	MS-0103516	5	M5 SCREW, SKHD CP x 12mm
31	CL-0007335-06	1	SPRING, EXTENSION
30	CL-0004990-39	1	BRACKET, PIVOT
29	CL-0004990-38	1	HOLDER, PARTS
28	MW-0183610	2	M6 WASHER, LOCK
27	MS-0303615	2	M6 SCREW, BUTT HD x 10mm
25	CL-0001424-01	1	PLUNGER
24	MW-0193810	24	M8 WASHER, LOCK
23	0150810	4	5/16-18 SCREW, SKHD x 5/8
22	CL-0004865-04	1	STOP, ADJUSTABLE
21	CL-0000492-05	3	5/8-11 UNC-3B NUT, HEX
20	CL-0011454	3	STOP
19	MW-0193510	19	M5 WASHER, LOCK
18	MW-0103510	15	M5 WASHER, FLAT
17	MS-0103517	12	M5 SCREW, SKHD CP x 16mm
16	MW-0263510	40	M5 WASHER, STAR
15	MS-0303516	52	M5 SCREW, BUTT HD x 12mm
14	CL-0006463	2	SLIDE PACK, UPPER TRACK
13	MS-0103622	4	M6 SCREW, SKHD CP x 40mm
12	CL-0002917-05	1	CYLINDER, 1-1/16" BORE
11	CL-0004990-43	1	FRAME
10	CL-0004990-41-R	1	BRACE, RIGHT SIDE
9	MS-0103617	11	M6 SCREW, SKHD CP x 16mm
8	CL-0004990-42	1	BRACE, MIDDLE
7	MN-0283610	30	M6 NUT, FLANGE
6	CL-0004990-41-L	1	BRACE, LEFT SIDE
5	CL-0002916-18	1	BRACKET, SLIDE ASSY
4	MS-0303617	6	M6 SCREW, BUTT HD x 16mm
3	MW-0193610	14	M6 WASHER, LOCK
2	MW-0103610	10	M6 WASHER, FLAT
1	CL-0002916-B5	1	BRACKET, SWITCH TARGET
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME PARTS CATCHER
LONG BED

PART NUMBER CL-0002916-SSLB
SHEET 5 OF 5

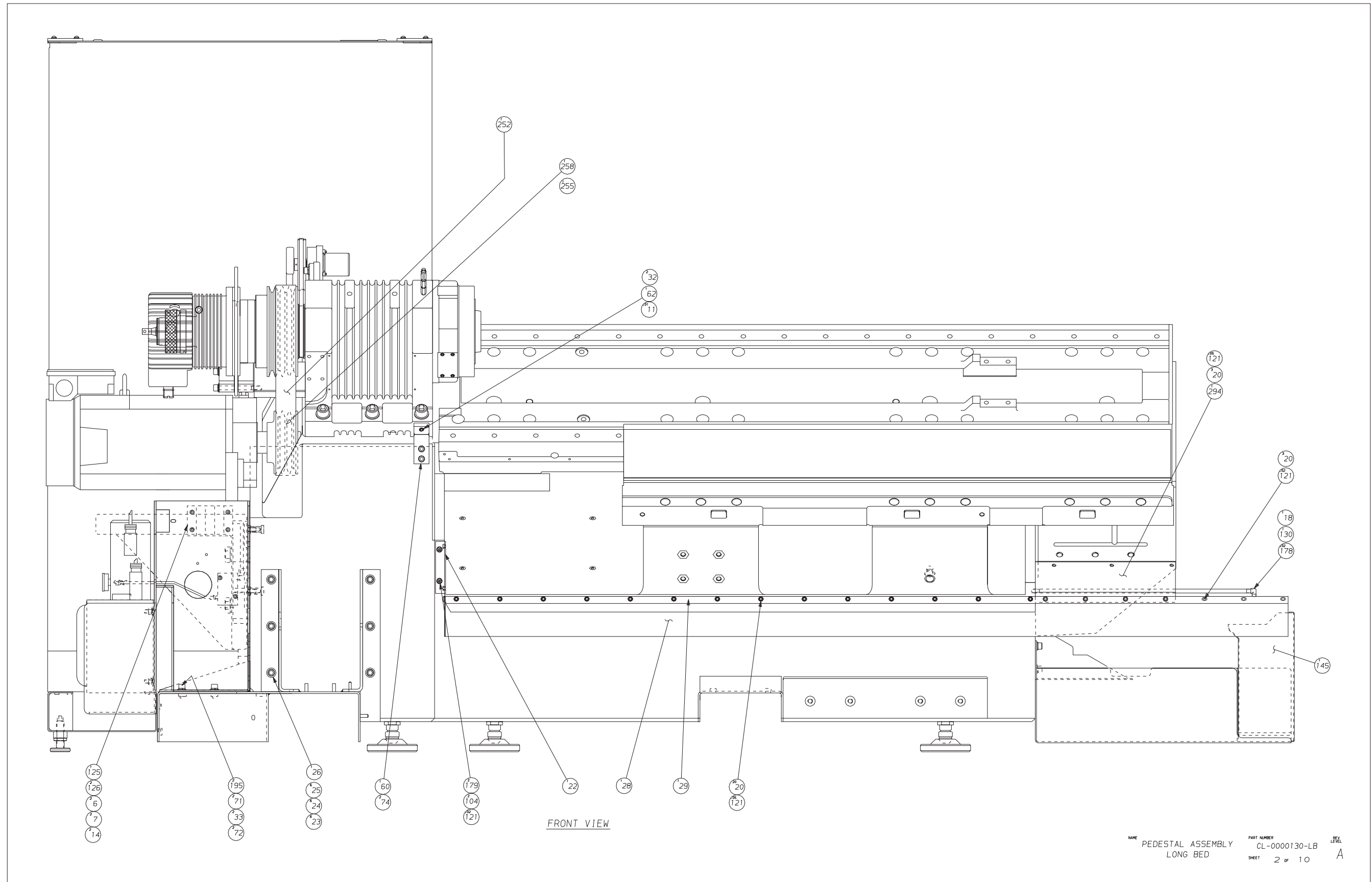
REV
A

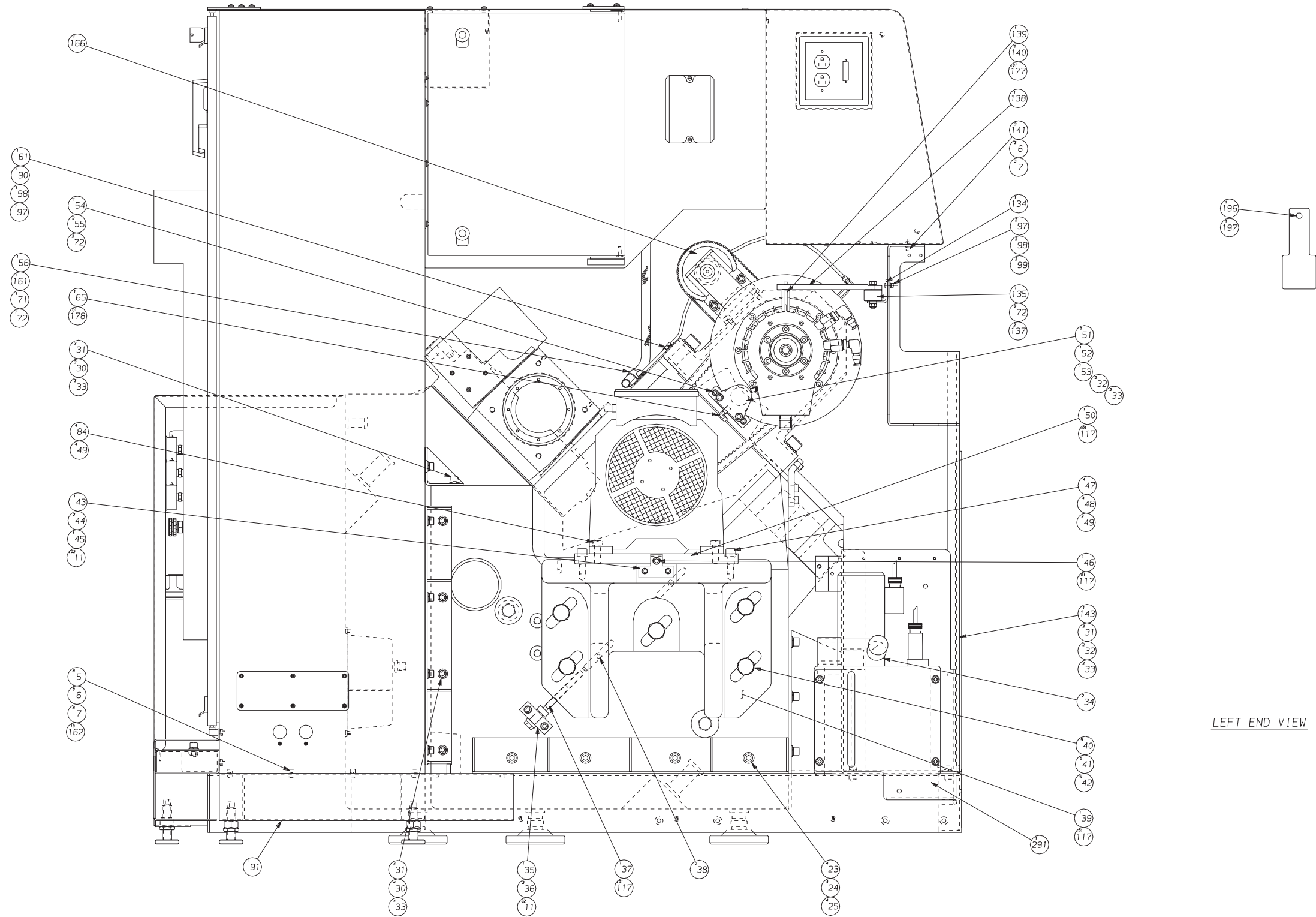


RIGHT END VIEW

NAME PEDESTAL ASSEMBLY LONG BED PART NUMBER CL-0000130-LB SHEET 1 OF 10 REV LEVEL B

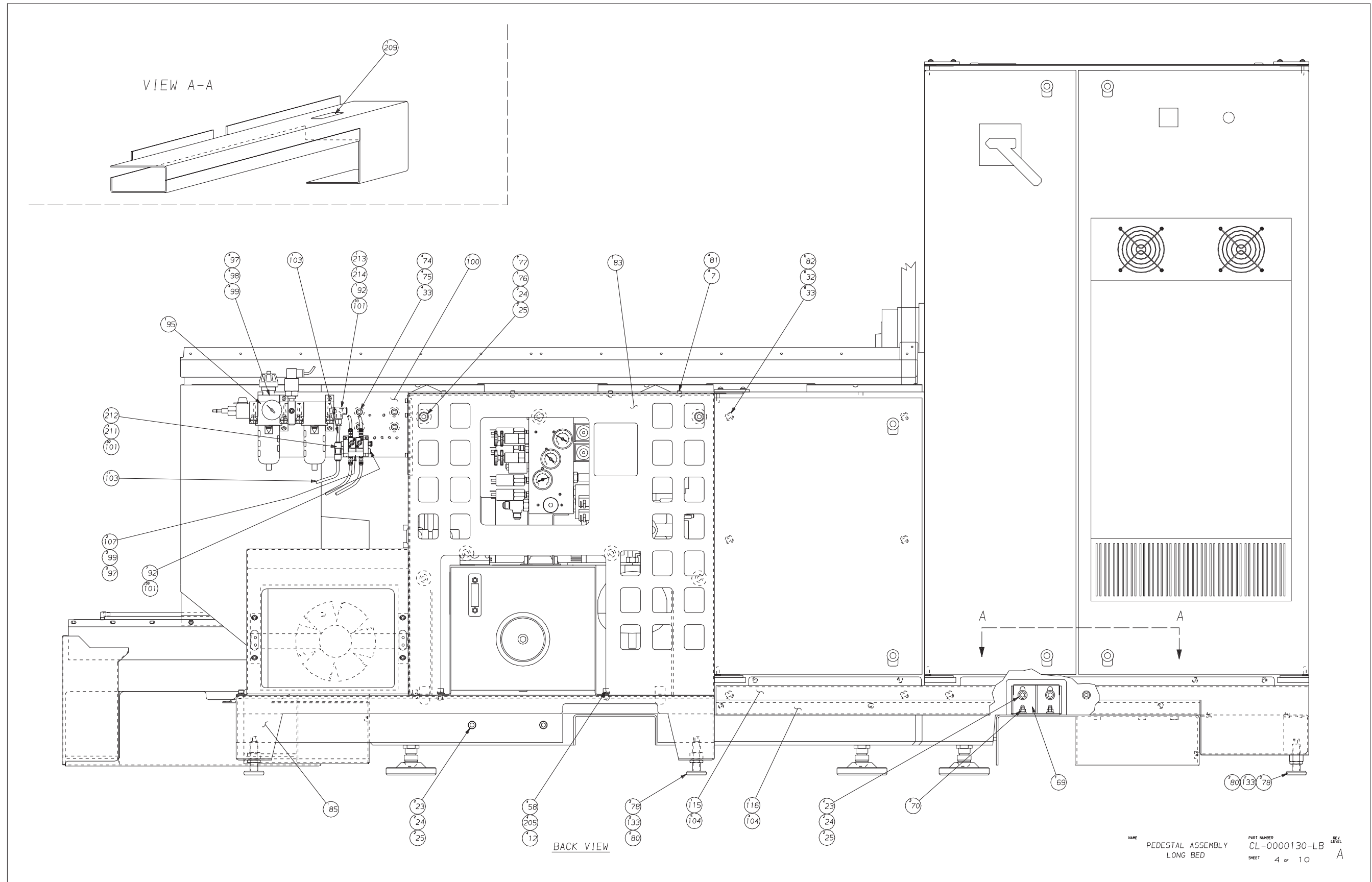
Pedestal Assembly

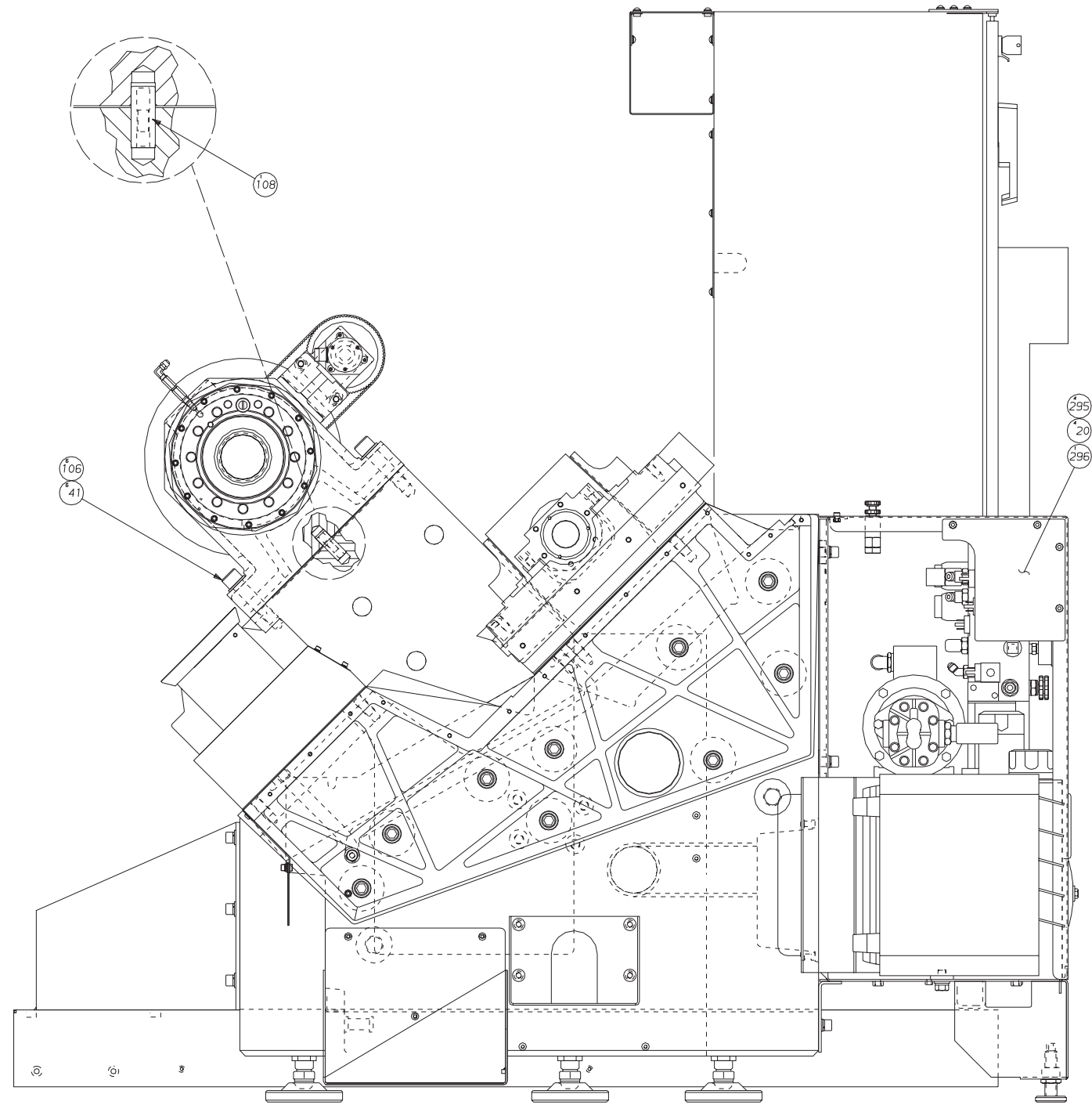




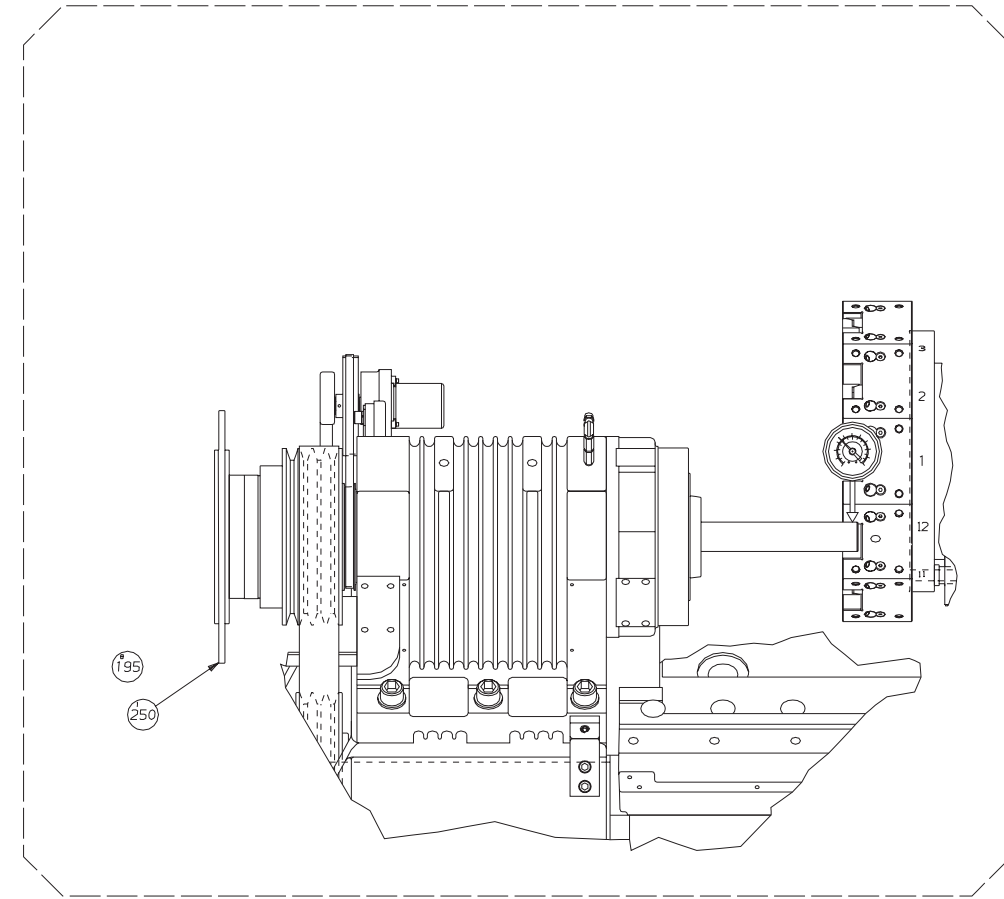
NAME PEDESTAL ASSEMBLY LONG BED PART NUMBER CL-0000130-LB SHEET 3 of 10 REV LEVEL A

Pedestal Assembly



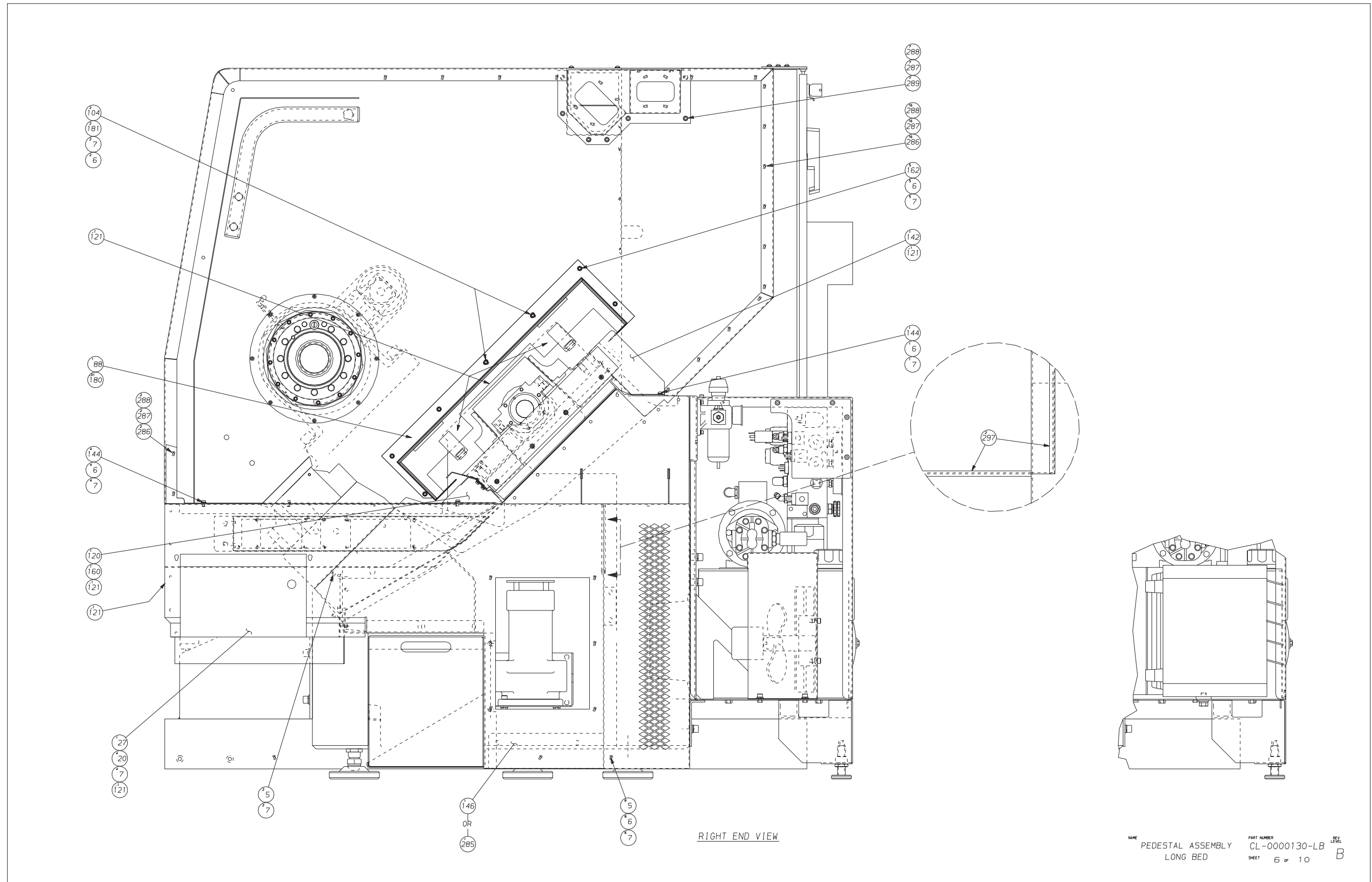


RIGHT END VIEW

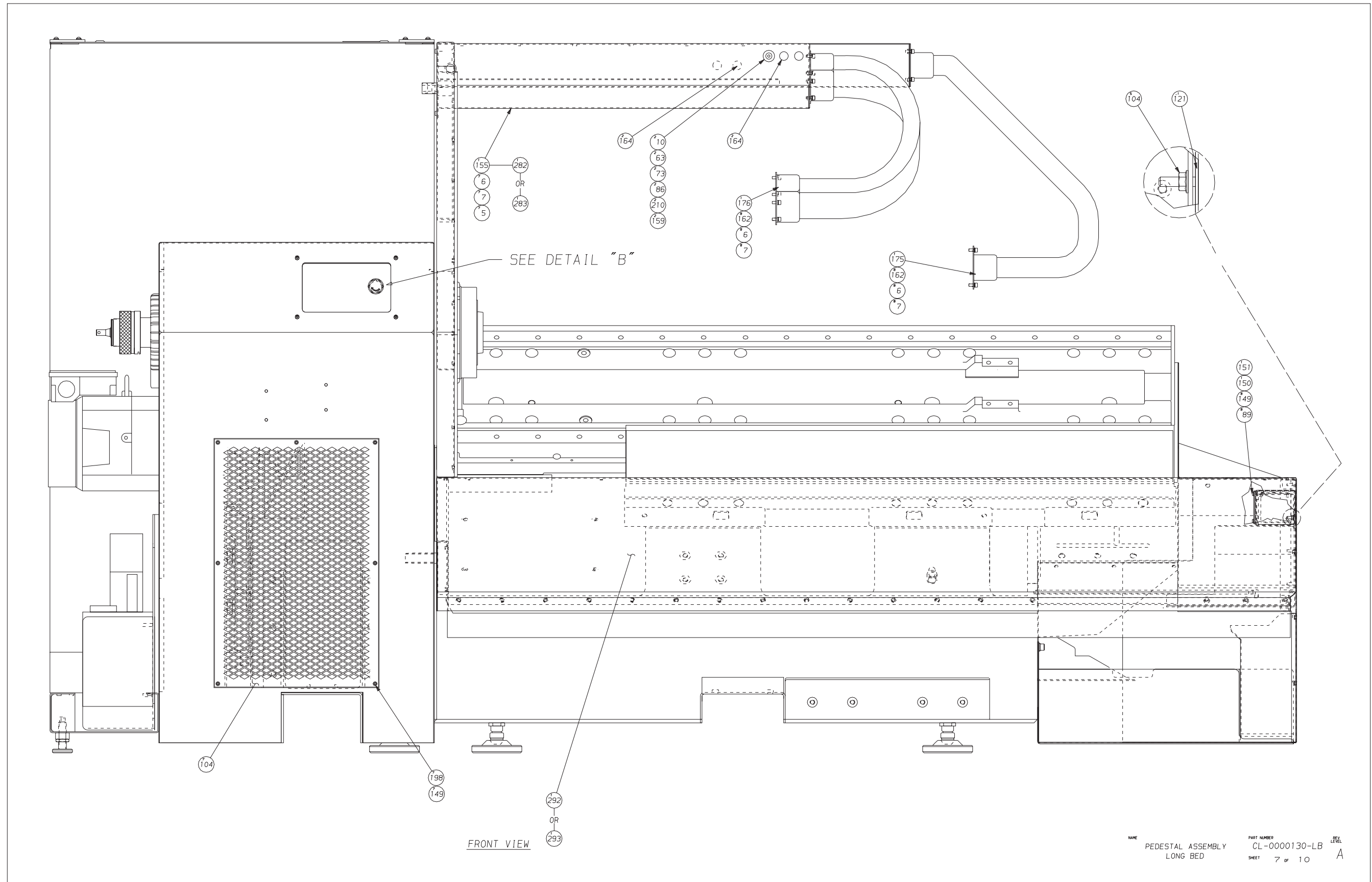


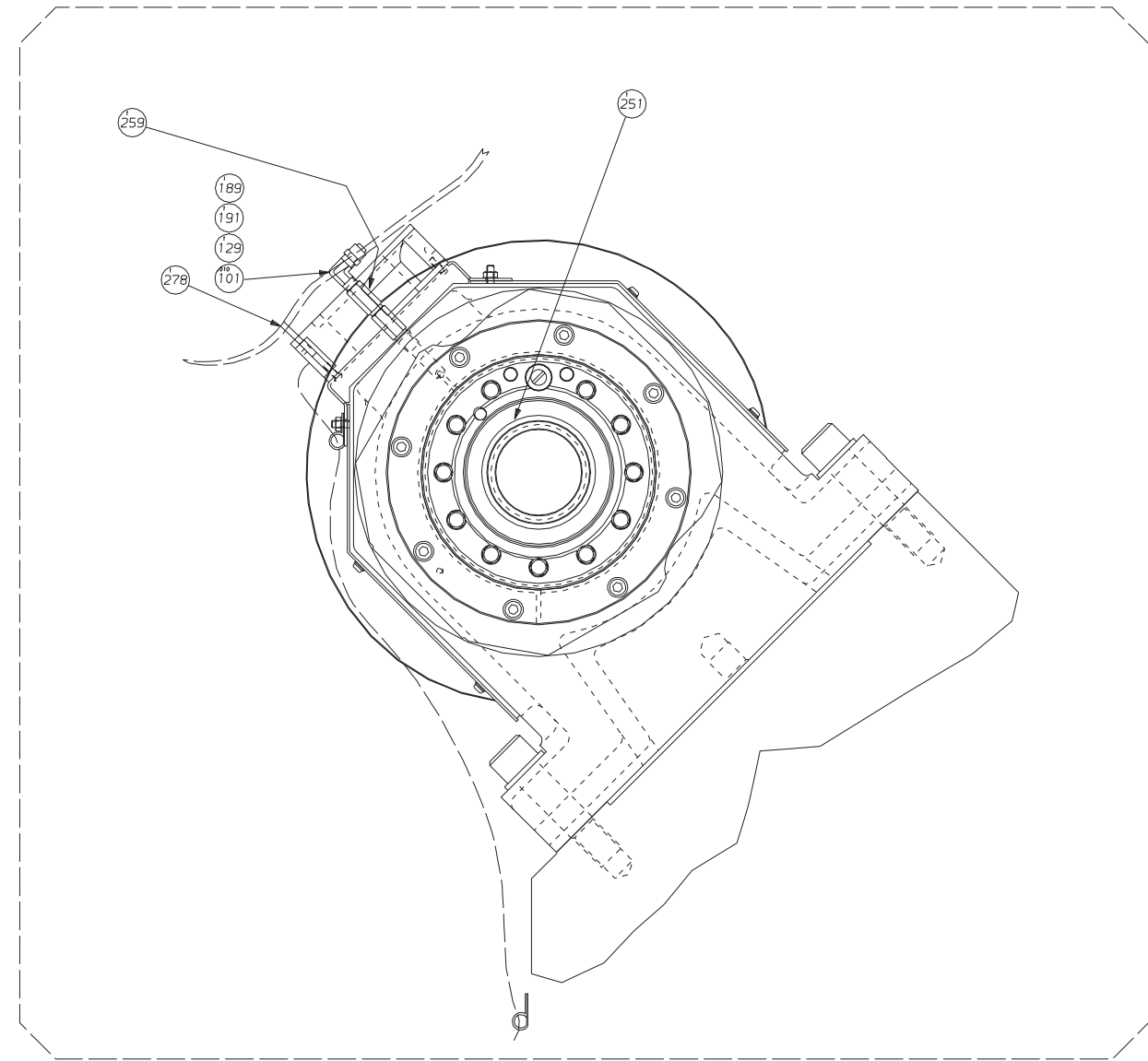
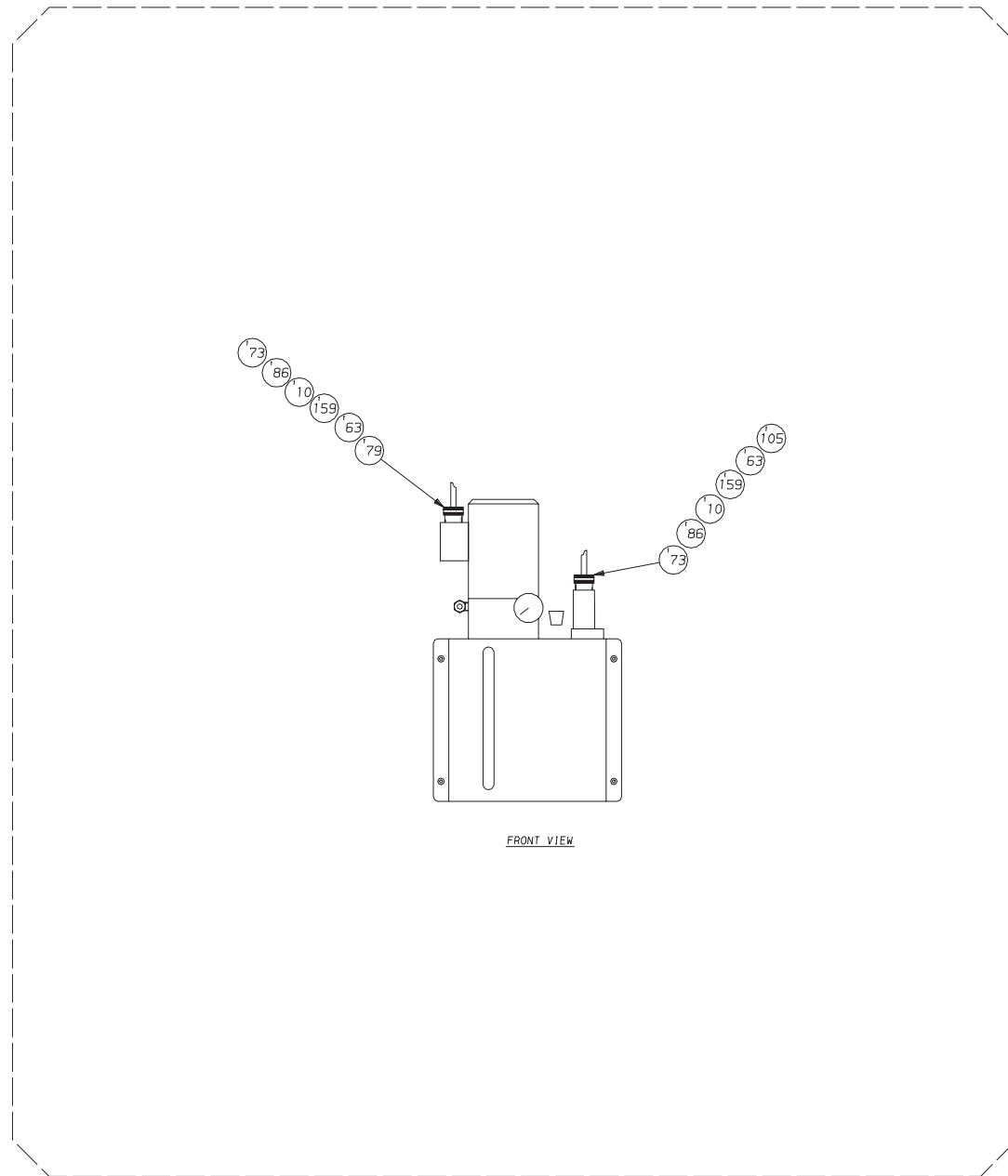
NAME	PEDESTAL ASSEMBLY	PART NUMBER	CL-0000130-LB	REV	A
	LONG BED	SHEET	5 of 10		

Pedestal Assembly



NAME PEDESTAL ASSEMBLY LONG BED PART NUMBER CL-0000130-LB SHEET 6 of 10 REV LEVEL B





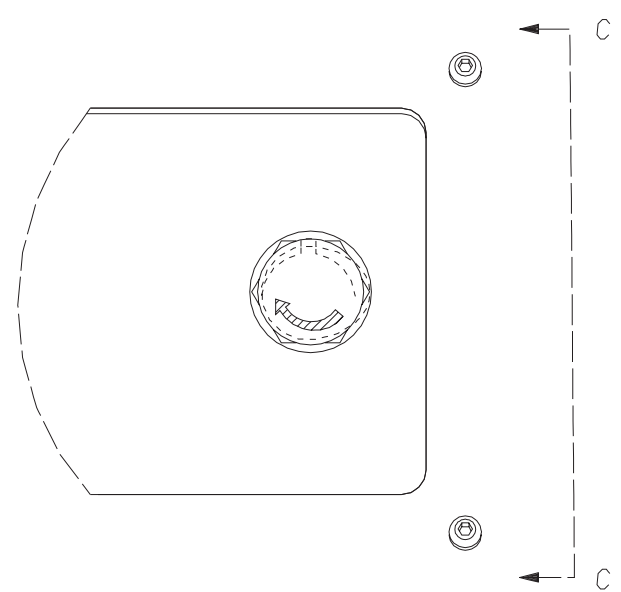
NAME PEDESTAL ASSEMBLY
LONG BED

PART NUMBER CL-0000130-LB

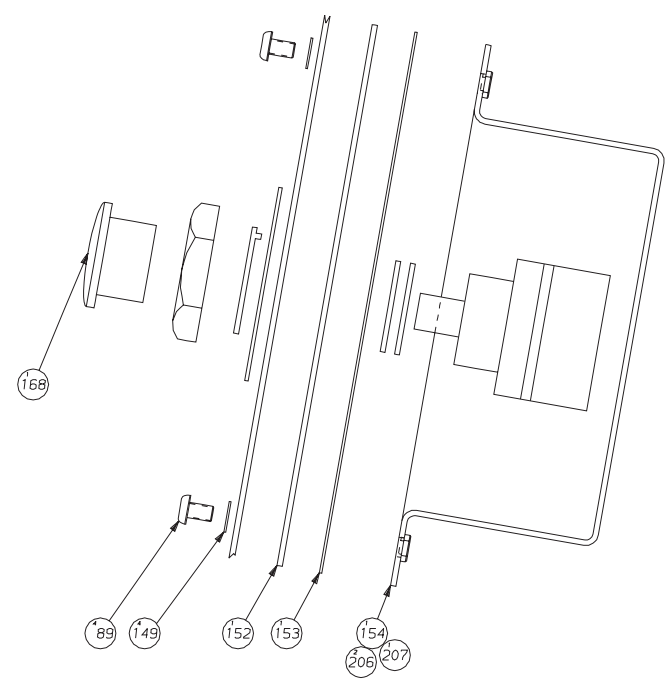
SHEET 8 of 10

REV LEVEL A

DETAIL "B"



VIEW C-C



NAME PEDESTAL ASSEMBLY
LONG BED

PART NUMBER CL-0000130-LB

SHEET 9 of 10

REV LEVEL A

Pedestal Assembly

ITEM	PART NUMBER	QTY	DESCRIPTION
297	RF-0011499	2	STRIP, NYLATRON WEAR
296	CL-0010215-45	1	COVER, SIDE HYDRAULIC
295	MW-0183610	4	WASHER, M6 LOCK
294	CL-0000221-56LB	1	GUARD, SPLASH, BASE EXT.
293	CL-0000221-03LE	1	SKIRT ASSEMBLY, COOLANT G
292	CL-0000221-03LB	1	SKIRT ASSEMBLY, COOLANT G
291	SG-0002990-32T1	1	BRACKET, LUBE TANK
290	LO-0002490	1	LAYOUT
289	MS-0303617-55	7	SCREW, M6-1.0x12mmLg 55
288	MW-0103610-55	25	WASHER, M6 55
287	MW-0183610-55	25	LOCKWASHER, M6 55
286	MS-0303617-55	18	SCREW, M6-1.0x16mmLg 55
285	CL-0000221-E5KL	1	SKIRT ASSEMBLY, COOLANT G
284	CL-0000221-EMHW	1	HEADWALL ASSEMBLY
283	CL-0000221-WW1E	1	WIREWAY ASSEMBLY
282	CL-0000221-WW1	1	WIREWAY ASSEMBLY

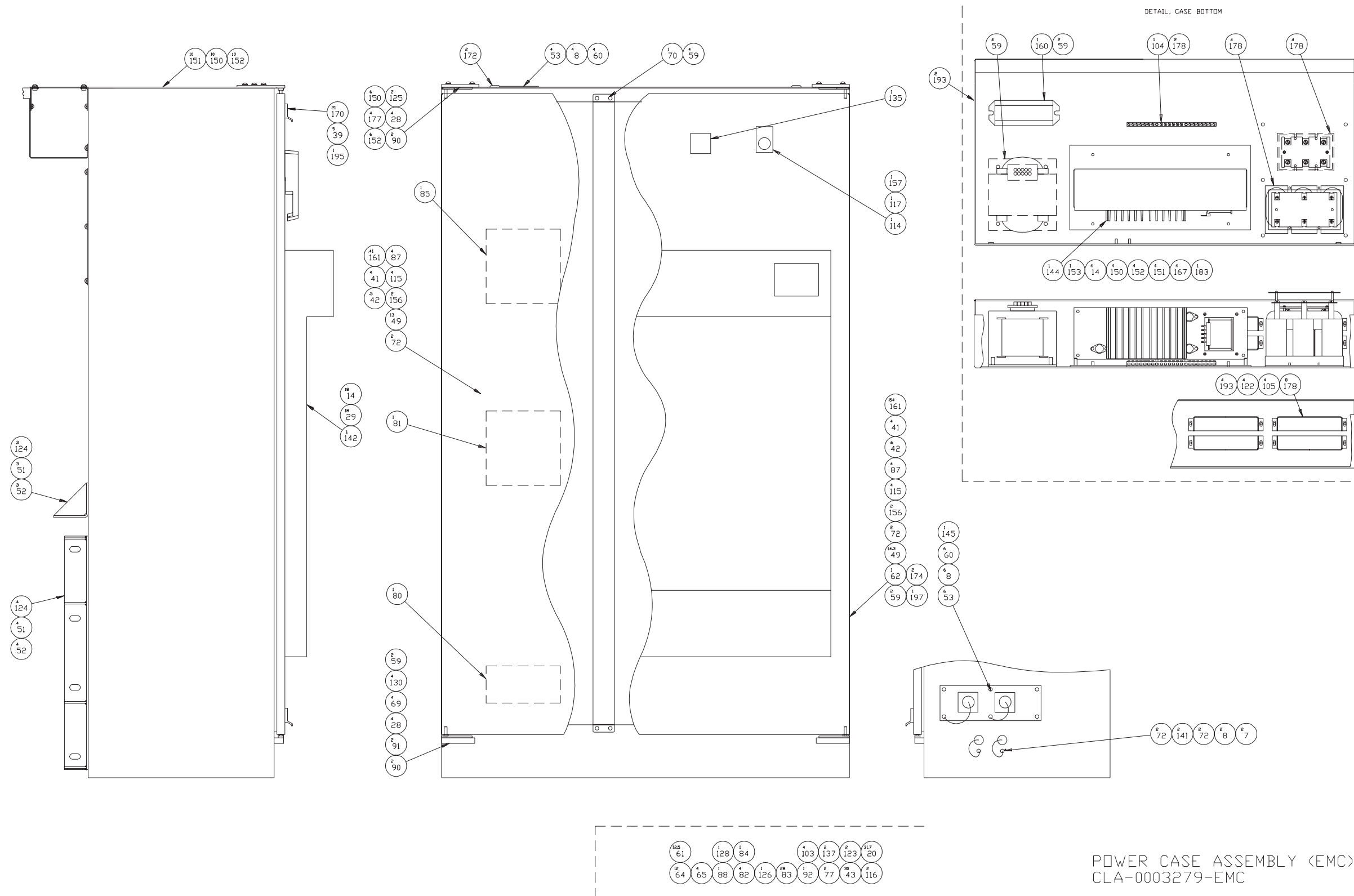
290
187
260

ITEM	PART NUMBER	QTY	DESCRIPTION
281	OR-0258268	1	O-RING
278	LM-0008104	1	TY-WRAP
260	LO-0002576	1	COLLET CLS. INSTALL. CL-64C
259	CL-0011801-01	1	LEE, JET
258	CL-0003177-02	1	PULLEY, SPINDLE MOTOR
255	CL-0010389-01	1	SLEEVE, CLAMPING
252	CL-0003346-1	1	BELT, HIGH TORQUE
251	CL-0009431-10	1	O-RING
250	CL-0010462-04	1	DISC, SPINDLE BRAKE
214	HG-0007702-03	1	CONNECTOR, MALE
213	CL-0010786-07	1	TEE, STRAIGHT
212	AO-0010786	1	STREET ELBOW
211	CL-0010786-08	1	TEE, BRANCH
210	DB-0009207-9E	2	GROMMET
209	CL-0010366-15	1	TAG, NO STEP
208	MS-0303618	2	M6 SCREW, 1 X 20MM
207	CH-0009532-1	1	GROMMET
206	TM-0010331 B	2	DOT PLUG
205	WA-0009191	4	WASHER
204	CL-0001990-30LB	1	BRACKET, COOLANT MT.
203	MN-0113810	2	NUT, HEX, M8 X 1.25
202	MS-0103820	2	SCREW, SOC. HD. CAP MB X
200	HG-0010116-30	1	GASKET, AIR BLAST
199	HG-0001990-91	1	PLATE, AIR BLAST
198	MS-0103619	7	SCREW, SOC.HD. CAP M6X1.0X
197	CL-0009532-02	1	GROMMET
196	CLA-0010115-54	1	COVER, SWITCH PORT
195	MS-0103818	10	M8 SCREW, SOC. HD. CAP X 2
191	HG-0008384	1	ADAPTER
189	CS-0011801	1	BODY, JET METRIC
187	CLA-0003650-02	1	SWITCH, ROLLER
183	S-0001893	4	GROMMET
181	MS-0103621	2	M6 SCREW, SOCKET HD
180	3-0010884-01	.36	3M WEATHERSTRIP ADHESIVE
179	MS-0553617	2	M6 SCREW, SOCKET-SET
178	SB-0010884-5	.03	HYDRAULIC SEALANT
177	NC-0010884-01	.01	LOCTITE 222
176	CL-0011623-LB	1	GORETUBE
175	CL-0011623-ZLB	1	GORETUBE
168	NT-0009972-01	1	E-STOP SWITCH
166	CL-0011780	1	SPINDLE FEEDBACK ASSY
164	CK-0010331-01	4	DOT PLUG
162	MS-0103617	31	M6 SCREW, SOCKET HD
161	MS-0103817	1	M8 SCREW, SOCKET HD
160	CL-0010116-40	1	GASKET, LABYRINTH EXT
159	DB-0009207-W	6	WASHER
158	MN-0283510	4	M5 NUT, FLANGE
155	CL-0010116-10	1	GASKET, WIREWAY
154	CL-0010115-37	1	COVER, E-STOP SWITCH
153	CLA-0010116-18	1	GASKET, E-STOP SWITCH
152	CLA-0002990-45	1	PLATE, MOUNTING E-STOP SW
151	CL-0010116-27	1	GASKET, SKIRT DUCT COVER
150	CL-0010115-35	1	COVER, SKIRT DUCT
149	MW-0263510	19	WASHER, TOOTHED LOCK M5
146	CL-0000221-SKLB	1	SKIRT ASSEMBLY, COOLANT G
145	CL-0001990-25	1	TANK, TRAMP OIL
144	MS-0303617	5	M6 SCREW, BUTTON HD

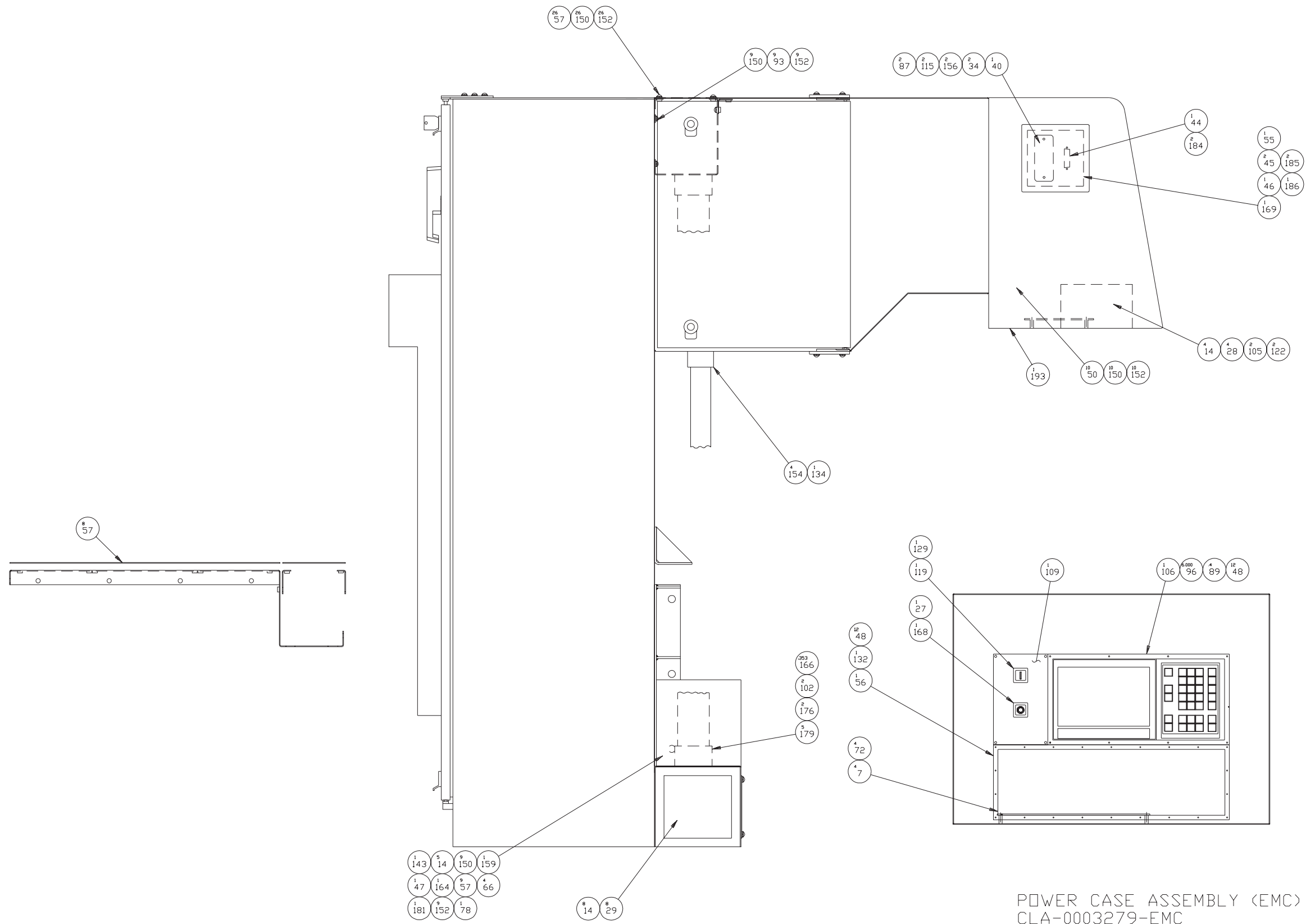
ITEM	PART NUMBER	QTY	DESCRIPTION
143	CLB-0001990-LF	1	FRAME, FORKLIFT SLOT ASSY
142	CL-0011198-LB	1	LABYRINTH, EXT. (REAR Z-W
141	MS-0103618	3	M6 SCREW, SOCKET HD
140	MS-0496016	1	M5 SCREW, SOC HD SHOULDER
139	CL-0010190	1	STANDOFF, COLLET CLOSER
138	CL-0010560-01	1	LINK, VIBRATION ISOLATOR
137	CP-0001041-B	2	NUT, 5/16-18T
135	CL-0011779	1	MOUNT, RUBBER
134	CLA-0010560	1	BRACKET, COLLET CLOSER
133	CL-0009454-01	4	FOOT-ADJUSTMENT, BASE
130	CT-0007709-01	1	STREET ELBOW
129	HG-0007702-01	1	ELBOW, PRESLOCK
126	MS-0303619	2	M6 SCREW, BUTTON HD
125	CL-0010234-03	1	MANIFOLD, JUNCTION 5-WAY
122	CL-0010116-15	1	GASKET, HEADWALL (LOWER)
121	GE-0010884	.76000	ADHESIVE/SEALANT
120	CL-0002990-31	1	LABYRINTH EXT, LOWER
117	CS-0010994	.04	GREASE
116	CL-0004158-20	1	SUPPORT, BOTTOM-HYD LINES
115	CL-0004158-19	1	SUPPORT, TOP-HYD LINES
112	CL-0010116-32	1	GASKET, HEADWALL (TOP)
108	CL-0009873-01	1	DOWEL, PULL OUT
107	CS-0010565	2	END PLATE & SEAL ASSY
106	MS-0105031	6	M20 SCREW, SOCKET HD
105	DB-0009207-9V	1	GROMMET
104	MN-0283610	25	M6 NUT, FLANGE
103	HG-0007007	12	HOSE, 5/16" OD
101	LT-0010884-5	.09	SEALANT, PIPE
100	CLB-0001990-41	1	PLATE, MOUNTING
99	MS-0103517	8	M5 SCREW, SOCKET HD
98	MW-0103510	7	WASHER, FLAT
97	MW-0193510	9	WASHER, LOCK
95	CLA-0010779-A	1	REGULATOR-FILTER ASSEMBLY
92	S-0001914	8	PLUG, PIPE 1/4"-18
91	CL-0002990-03	1	RETAINER, HYDRAULIC HOSE
90	MS-0103516	1	M5 SCREW, SOCKET HD
89	MS-0303515	12	M5 SCREW, BUTTON HD
88	CL-0010116-HWC	1	GASKET
87	CLA-0000221-HW	1	HEADWALL ASSEMBLY
86	AH-0011508	4	LOCKING NUT
85	CLC-0010445-A	1	FRAME WELD ASSEMBLY
84	MS-0154422	4	M14 SCREW, HEX HEAD
83	CL-0010115-33	1	COVER, HYDRAULIC ASSEMBLY
82	MS-0104021	8	M10 SCREW, SOCKET HD
81	MS-0103615	4	M6 SCREW, SOCKET HD
80	MN-0145010	4	M20 NUT, HEX (LOW 7mm)
79	DB-0009207-9U	1	GROMMET (LARGE)
78	CL-0009455-02	4	FOOT-ADJUSTMENT, BASE
77	MS-0104221	7	M12 SCREW, SOCKET HD
76	CL-0011063	1	BARRIER, HYDRAULIC
75	CS-0001799	4	SPACER, BEARING
74	MS-0104020	6	M10 SCREW, SOCKET HD
73	SO-0010226	4	WASHER, SEAL
72	MW-0193810	9	WASHER, LOCK
71	MW-0103810	7	WASHER, FLAT
70	MW-0153810	2	M8 NUT, FLANGE
69	CL-0001990-91	1	BRACKET, FORKLIFT REAR

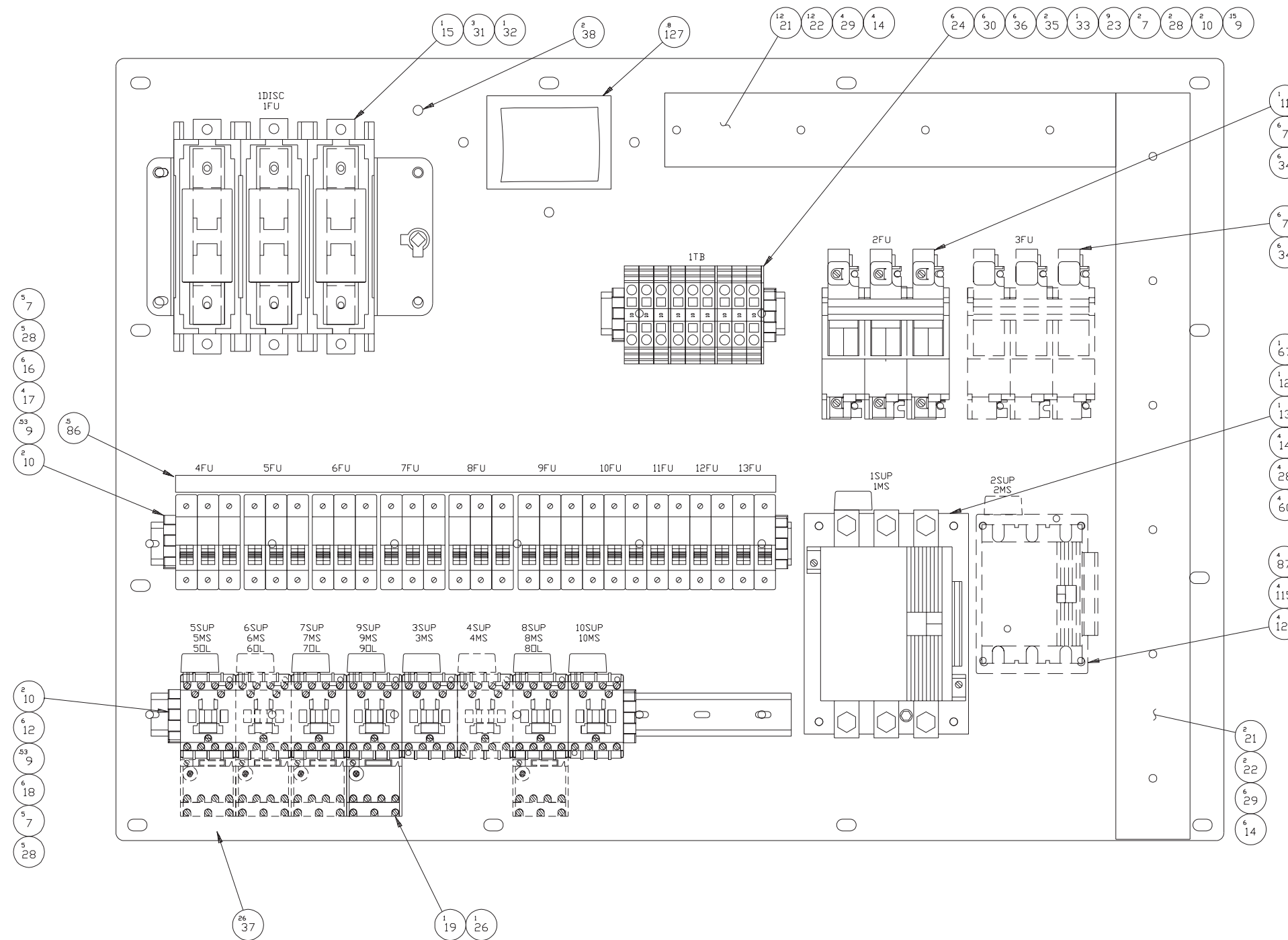
ITEM	PART NUMBER	QTY	DESCRIPTION
68	MS-0303615	12	M6 SCREW, BUTTON HD
67	CL-0010115-62LB	1	COVER, VOLTAGE
65	AD-0011338-04	1	ELBOW, NINETY DEGREE
63	DB-0009207-9A	4	BODY
62	MS-0554218	1	M12 SCREW, SOC SET CUP
61	CH-0009623-02	1	CLAMP
60	CL-0010984	1	BRACKET, HEAD ALIGNMENT
58	MS-0104016	8	M10 SCREW, SKHD
56	SB-0009623	1	CLAMP
55	MS-0103823	2	M8 SCREW, SOCKET HD
54	CL-0010462-01	1	SUPPORT, BRAKE
53	CS-0008612	1	SHIM, BRAKE
52	CS-0009995	1	SHIM, BRAKE
51	CSB-0010462-A	1	BRAKE, SPINDLE
50	CL-0001991-03	1	PLATE, MOTOR ADJUSTMENT
49	MW-0194410	8	WASHER, LOCK
48	CS-0003230-06	4	WASHER, TURRET BOLT DOWN
47	MS-0104422	4	M14 SCREW, SOCKET HD
46	CS-0003914	1	SCREW, ADJUSTING
45	TL-0006708	1	PIN, DOWEL
44	MS-0103819	2	M8 SCREW, SOCKET HD
43	CS-0011320	1	BLOCK, PLATE ADJUSTING
42	MW-0185010	5	WASHER, LOCK
41	MW-0105010-H	11	WASHER, FLAT HARDENED
40	MS-0165029	5	M20 SCREW, HEX HD
39	CL-0001991-01	1	MOUNT, MOTOR
38	CS-0010000	2	SCREW, GUIDE-MOTORPLATE
37	CS-0010000-01	1	SCREW, ADJUSTING
36	MS-0104023	2	M10 SCREW, SOCKET HD
35	CS-0011320-01	1	BLOCK, ADJUSTER-MOTOR PLA
34	CL-0009532	2	GROMMET
33	MW-0194010	25	WASHER, LOCK
32	MW-0104010	18	WASHER, FLAT
31	MS-0104019	9	M10 SCREW, SOCKET HD
30	CT-0002068	7	WASHER, FLAT
29	CL-0010848-02LB	1	STRIP, DRIP
28	CL-0010848-LB	1	STRIP, BASE DRIP
27	CL-0010848-01	1	STRIP, DRIP
26	CLB-0001990-FL	1	FORKLIFT SLOT
25	MW-0194210	21	WASHER, LOCK
24	CL-0002840-01	21	WASHER, FLAT (HARDENED)
23	MS-0104219	14	M12 SCREW, SOCKET HD
22	CL-0000221-02	1	MOUNT, SKIRT
20	MS-0303616	34	M6 SCREW, BUTTON HD
18	CL-0011092-02	1	NIPPLE, 1/2BNPT
14	CN-0010481-01	2	SPACER
12	MW-0184010	8	WASHER, LOCK
11	NC-0010884	.17	LOCTITE #242
10	DB-0009207-9B	4	NUT, COMPRESSION
9	CL-0010116-19	1	GASKET, HEADWALL (BACK)
8	CL-0001990-27LB	1	BRACKET, TRAMP OIL
7	MW-0193610	67	WASHER, LOCK
6	MW-0103610	57	WASHER, FLAT
5	MS-0103616	26	M6 SCREW, SOCKET HD
4	MS-0303514	8	M5 SCREW, BUTTON HD
2	CL-0010116-74	1	GASKET, HEADWALL SEAL
1	CL-0000343-03	1	SEAL, FLANGE HEADWALL

NAME PEDESTAL ASSEMBLY LONG BED
PART NUMBER CL-0000130-LB
SHEET 1 Of 10
REV LEVEL A



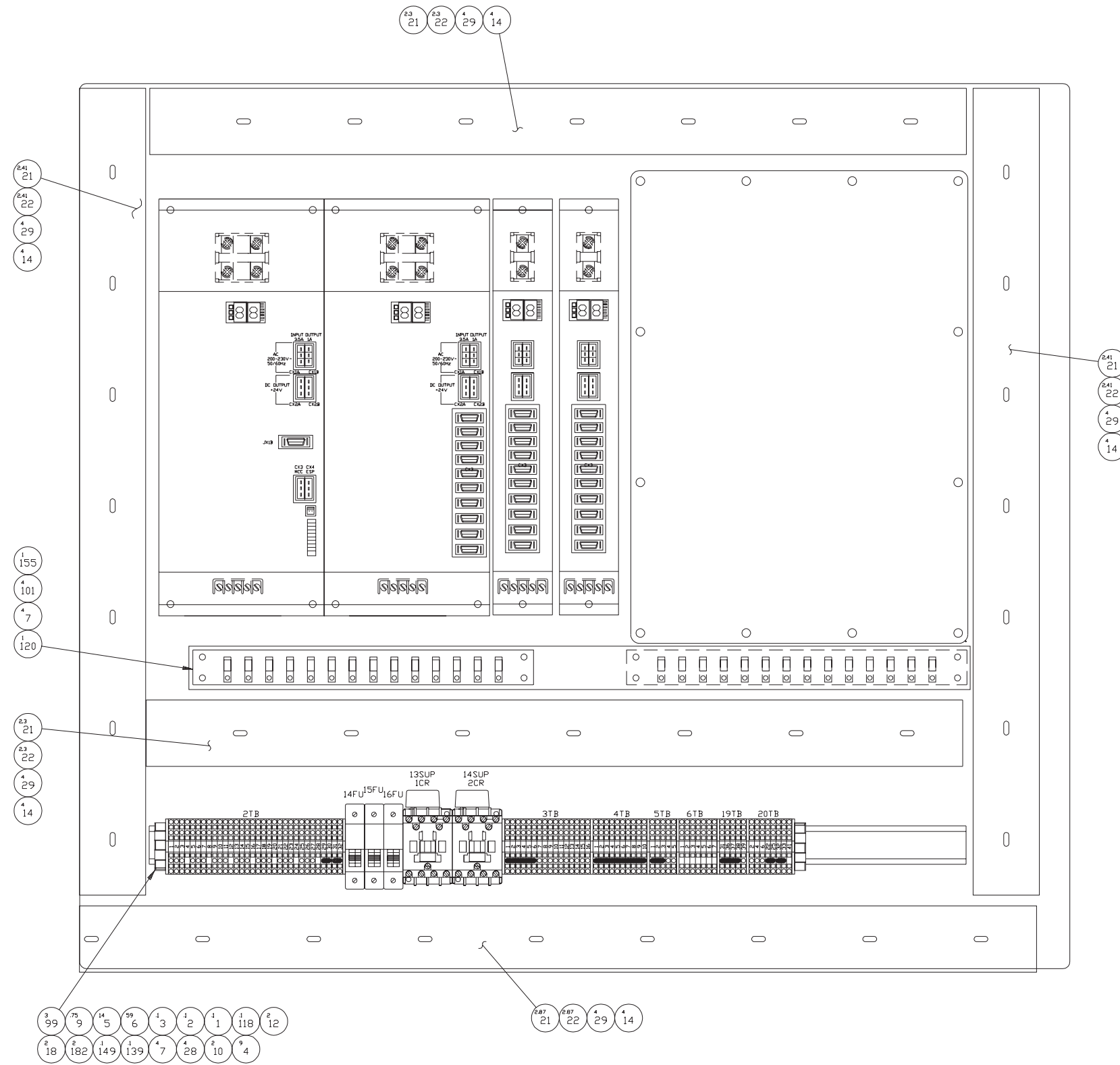
POWER CASE ASSEMBLY (EMC)
CLA-0003279-EMC



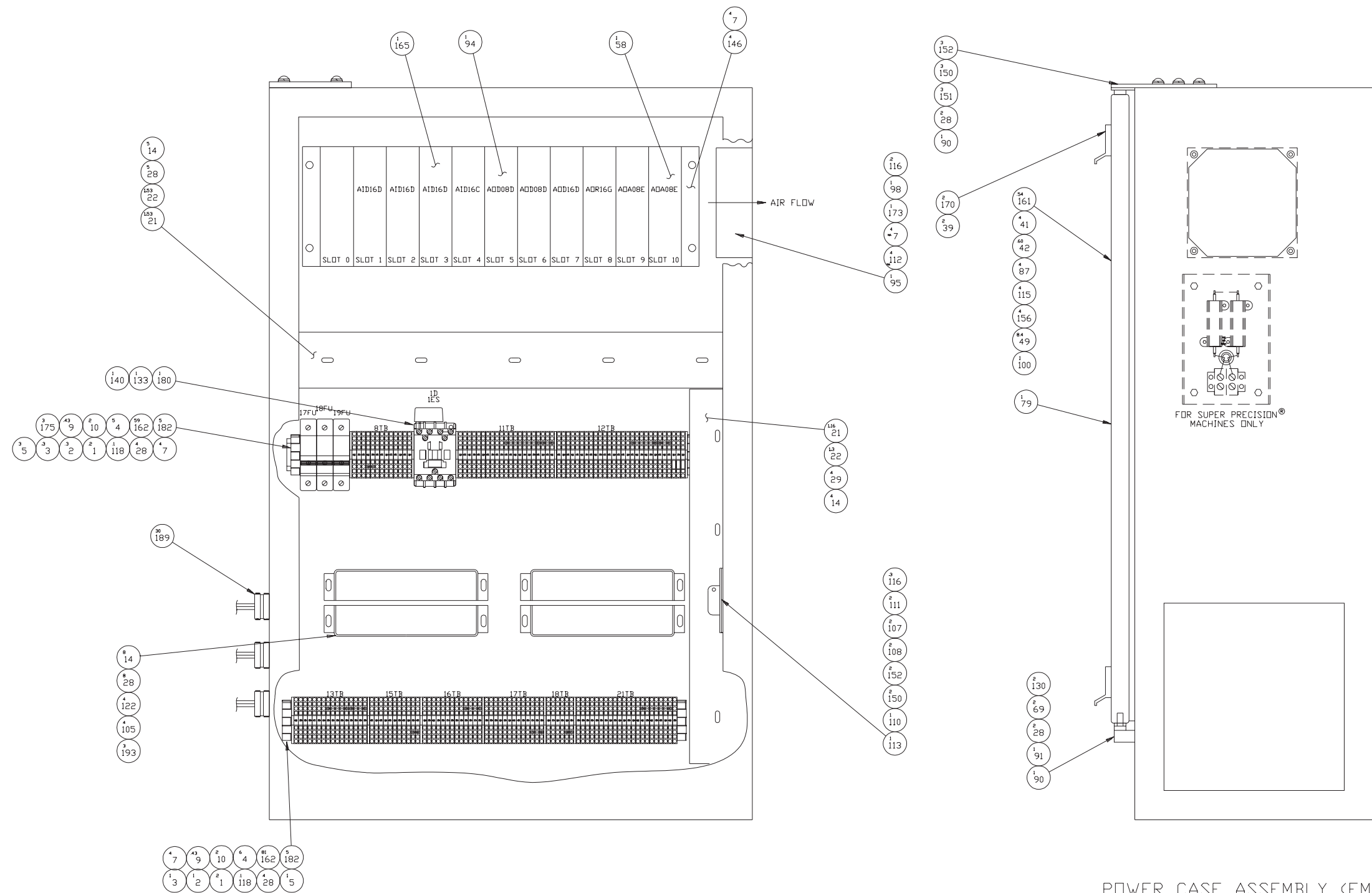


POWER CASE ASSEMBLY (EMC)
CLA-0003279-EMC

Power Case Assembly (CE Mark)

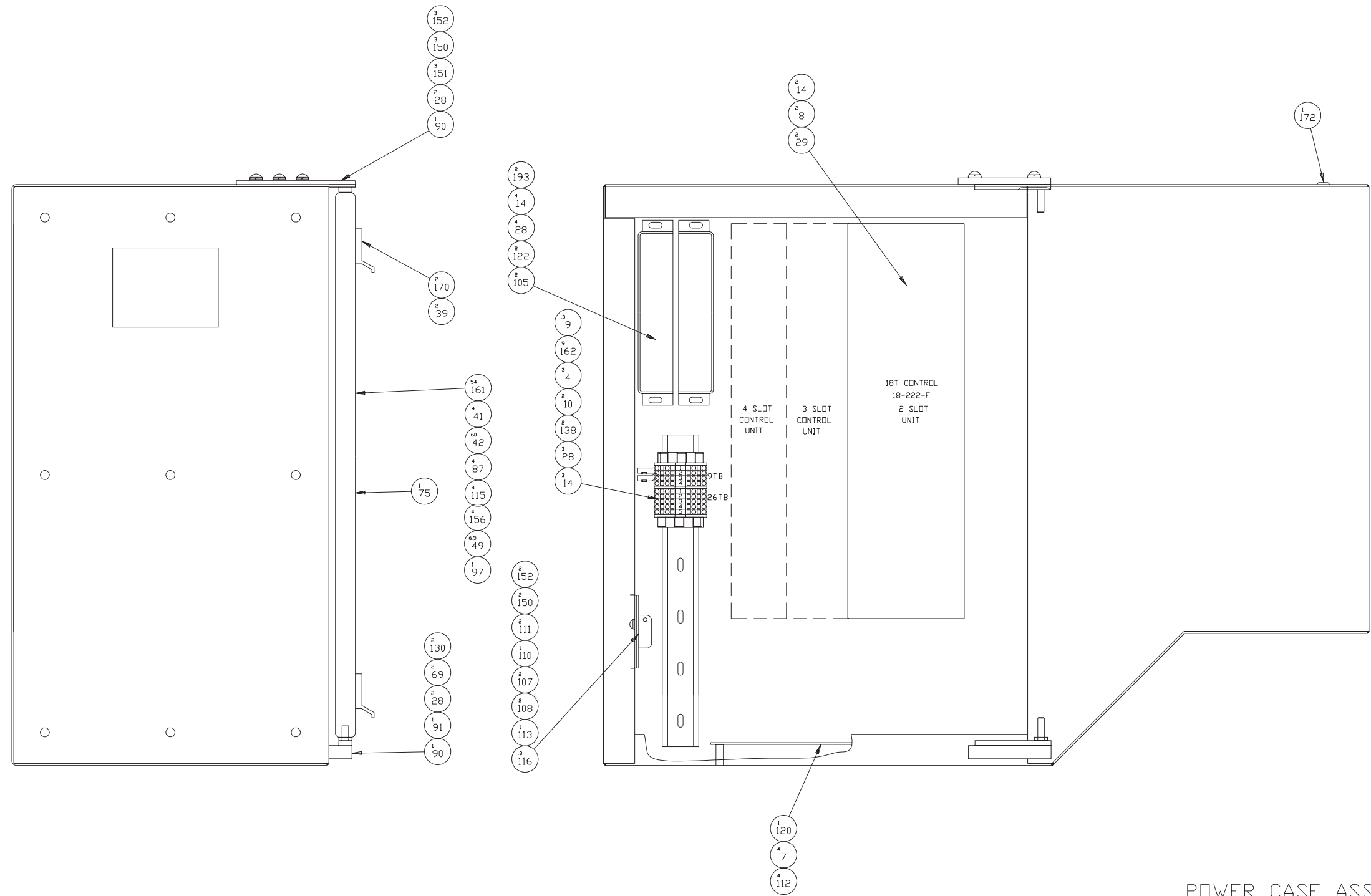


POWER CASE ASSEMBLY (EMC)
CLA-0003279-EMC



POWER CASE ASSEMBLY (EMC)
CLA-0003279-EMC

Power Case Assembly (CE Mark)



POWER CASE ASSEMBLY (EMC)
CLA-0003279-EMC

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	HG 000917502	0.5000	MARKER, STRIP 21-30
2	HG 000917501	1.4000	MARKER, STRIP 11-20
3	HG 0009175	1.4000	MARKER, STRIP 1-10
4	HG 001103203	23.0000	END PLATE
5	HG 001103202	18.0000	TERMINAL BLOCK, GREEN/YELLOW
6	HG 0011032	59.0000	TERMINAL BLOCK, GRAY
7	MW 0263410	58.0000	WASHER, EXT. STAR M4
8	MW 0103510	14.0000	WASHER, FLAT M5 X .8 STEEL
9	CK 9011032	3.1200	RAIL, DIN BLANK
10	HG 001103204	14.0000	END STOP
11	SG 001001704	1.0000	HOLDER, FUSE 3P 125A
12	VF 001129801	9.0000	FILTER
13	18 001001602	1.0000	CONTACTOR, 180A
14	MW 0263510	99.0000	WASHER, M5 STEEL
15	CL 0010016	1.0000	DISCONNECT
16	SG 0010017	6.0000	HOLDER, FUSE 3P/W IND.CC FUS
17	SG 001001701	4.0000	HOLDER, FUSE 2P/W IND.CC FUS
18	CKA001036101	8.0000	CONTACTOR, NON-REVERSING
19	HG 0010449	1.0000	SHIELD, ANTI TAMPER
20	1820002874BU	31.7000	WIRE, DARK BLUE
21	HG 0010821	18.1800	DUCT
22	HG 001082108	18.3200	COVER, FOR DUCT (HG 10821)
23	SG 001103201	9.0000	BLOCK, TERMINAL 6 AWG
24	SG 001103206	6.0000	GUARD, FINGER-TERMINAL BLOCK
25	CL 0012024CEDB	1.0000	DATA BASE, WIRE & CABLE
26	193000983335	1.0000	RELAY, OVERLOAD
27	HG 001001901	1.0000	CONTACT BLOCK
28	MS 0303514	68.0000	SCREW, BT. HD. M5 X .8 X 8MM
29	MS 0303515	62.0000	SCREW, BT. HD. M5X.8,X 10MM
30	SG 001103205	6.0000	MARKER, WARNING TERMINAL BLD
31	SG 001011549	1.0000	COVER, FUSE, 200A
32	SG 001011550	1.0000	COVER, TERMINAL, 200A
33	SG 001103202	1.0000	END PALTE, TERMINAL BLOCK
34	MS 0303416	14.0000	SCREW, BT. HD. M4X.7,X 12MM
35	SG 001103203	2.0000	SEPARATOR, TERMINAL BLOCK
36	SG 001103204	6.0000	JUMPER, TERMINAL BLOCK
37	F3 000997701	26.0000	LABEL, ID
38	HG 0010546	2.0000	NUT, 1/4-20 BRASS HEX
39	VL 001173801	5.0000	DOOR PULL
40	HG 0010115RC	1.0000	COVER, 115 VOLT RECEPTACLE
41	HC 0010746	16.0000	HOOK, S-TYPE
42	SB 0011962	2.3000	CHAIN, RESTRAINT
43	LM 0008104	30.0000	TY-RAP
44	CN 0012042 B	1.0000	BLOCKS, LATCHING
45	CC 0011947	2.0000	STRIP, MAGNETIC
46	CN 0011062	1.0000	KNDB
47	MS 0303518	1.0000	SCREW, BT. HD. M5X.8,X 20MM
48	MS 0303315	24.0000	SCREW, BUTTON HD. M3X.5X10MM
49	SG 001011602	42.2000	GASKET, EMI/RFI
50	MS 0103616	10.0000	SCREW, SOC.HD.CAP M6X1.0X12MM
51	CT 0002068	7.0000	WASHER
52	MS 0104018	7.0000	SCREW, SOC.HD.CAP.M10X1.5 X20
53	MS 0303516	10.0000	SCREW, BUT.HD.M5X.8X12MM
54			
55	0300204	1.0000	SCREW BT HD 8-32 X 1/4
56	CS 0012099	1.0000	BEZEL, PANEL
57	MS 0303616	43.0000	SCREW, BT. HD. M6X1.0 X 12MM
58	18 001179149CE	1.0000	MODULE, OPTIION
59	MN 0283610	14.0000	NUT, HEX SERRATED FLANGE

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
60	MW 0183510	14.0000	WASHER, LOCK REG. M5 X .8 SC
61	18A000301103	12.5000	CABLE 3 CONDUCTOR 18 AWG
62	CL 0004158EM1	1.0000	DOOR, POWERCASE (RIGHT)
64	1420002874BL	12.0000	WIRE
65	RBB0009188	4.0000	BUTT SPLICE
66	MS 0303517	4.0000	SCREW, BUTTON HD. M5X.8X16MM
67	CL 0010115 T	1.0000	COVER, TERMINAL
68	CL 0003279WPC	1.0000	POWER CASE WIRE PACKAGE
69	MS 0103619	8.0000	SCREW, SOC.HD.CAP M6X1.0X25M
70	CL 000415808	1.0000	DIVIDER, DOOR
71	CL 0003011CEC	1.0000	POWER CASE CABLE PACKAGE
72	MS 0303414	12.0000	BUTTON HEAD SCREW
73	LD 0002927	1.0000	CABLE CHART, CL-CE
74	CL 0008220CE	1.0000	ELECTRICAL DIAGRAMS-CL-(CEMA
75	CL 0010522CE05	1.0000	LABEL, CONTROL CASE
77	CS 001204215	2.0000	CAP, RECEPTACLE
78	CL 0004158FM	1.0000	MDUNT, FAN-FAN HOUSING PWR C
79	CL 0010522CE4	1.0000	LABEL, I/O CASE
80	CL 0010522CE03	1.0000	LABEL, POWERCASE FLOOR
81	CL 0010522CE02	1.0000	LABEL, LOWER POWERCASE
82	F3 0009977	4.0000	LABEL, CABLE
83	F3 000997702	46.0000	LABEL, WIRE, SMALL
84	LD 0002672AH	1.0000	LAYOUT, RAM TURRET
85	CL 0010522CE01	1.0000	LABEL, UPPER POWERCASE
86	MC 000812204	0.5000	BUSBAR, 19, 3 POLE
87	MW 0183410	22.0000	WASHER, LOCK M4 STEEL
88	LD 0002642 L	1.0000	TAGS, CABLE CHIP CONVEYDR
89	SGA0010884 C	0.4000	ADHESIVE, CONDUCTIVE
90	SBA0011939	8.0000	HINGE PIN ASSEMBLY
91	AD 0003623	4.0000	WASHER, NYLON
92	LD 0002468	1.0000	INSTR INTERFACE INSTALL OPTI
93	MS 0103617	9.0000	SCREW, SOC.HD.CAP M6X1.0X16M
94	18 0011791CE	2.0000	MODULE, DC OUTPUT, 8 POINT-CEM
95	CN 001134901	1.0000	FAN
96	SG 001011603	6.0000	GASKET
97	CL 0004158EM2I	1.0000	DOOR, OTC CONTROL CASE
98	WD 0009028	1.0000	WASHER, LOCK
99	SG 001001702	3.0000	HOLDER, FUSE 1P/W IND.CC FUS
100	CL 0004158EM18	1.0000	DOOR, I/O CASE
101	MS 0303410	4.0000	SCREW, BT. HD. M4X.7,X 3MM
102	CS 0010225	2.0000	FITTING, PVC CONDUIT
103	CK 000918818	22.0000	FERRULES, 18 AWG
104	SB 0011888	1.0000	KIT, GROUND BAR
105	HG 0011350	12.0000	FILTER, FDAM
106	CL 000022144	1.0000	FACEPLATE, CONTROL HOUSING
107	6 0008137	4.0000	WASHER, LOCK
108	0300103	4.0000	SCREW BT HD 6-32 X 3/16
109	CL 000415841	1.0000	PANEL, ON-OFF
110	CL 000415832	2.0000	BRACKET, SWITCH, OTC & I/O CA
111	MS 0303615	4.0000	SCREW, BT. HD. M6X1.0X 10MM
112	MS 0303417	8.0000	SCREW, BT. HD. M4X.7,X 16MM
113	CL 001022407	2.0000	SWITCH, INTERLOCK
114	HGA000283407	1.0000	SWITCH, OPERATOR
115	MW 0103410	22.0000	WASHER, FLAT M4 X .7 STEEL
116	NC 001047306	2.8000	HEAT SHRINKABLE TUBING
117	HGA001001901	1.0000	CONTACT BLOCK
118	HG 000917503	0.3000	MARKER STRIP 31-40

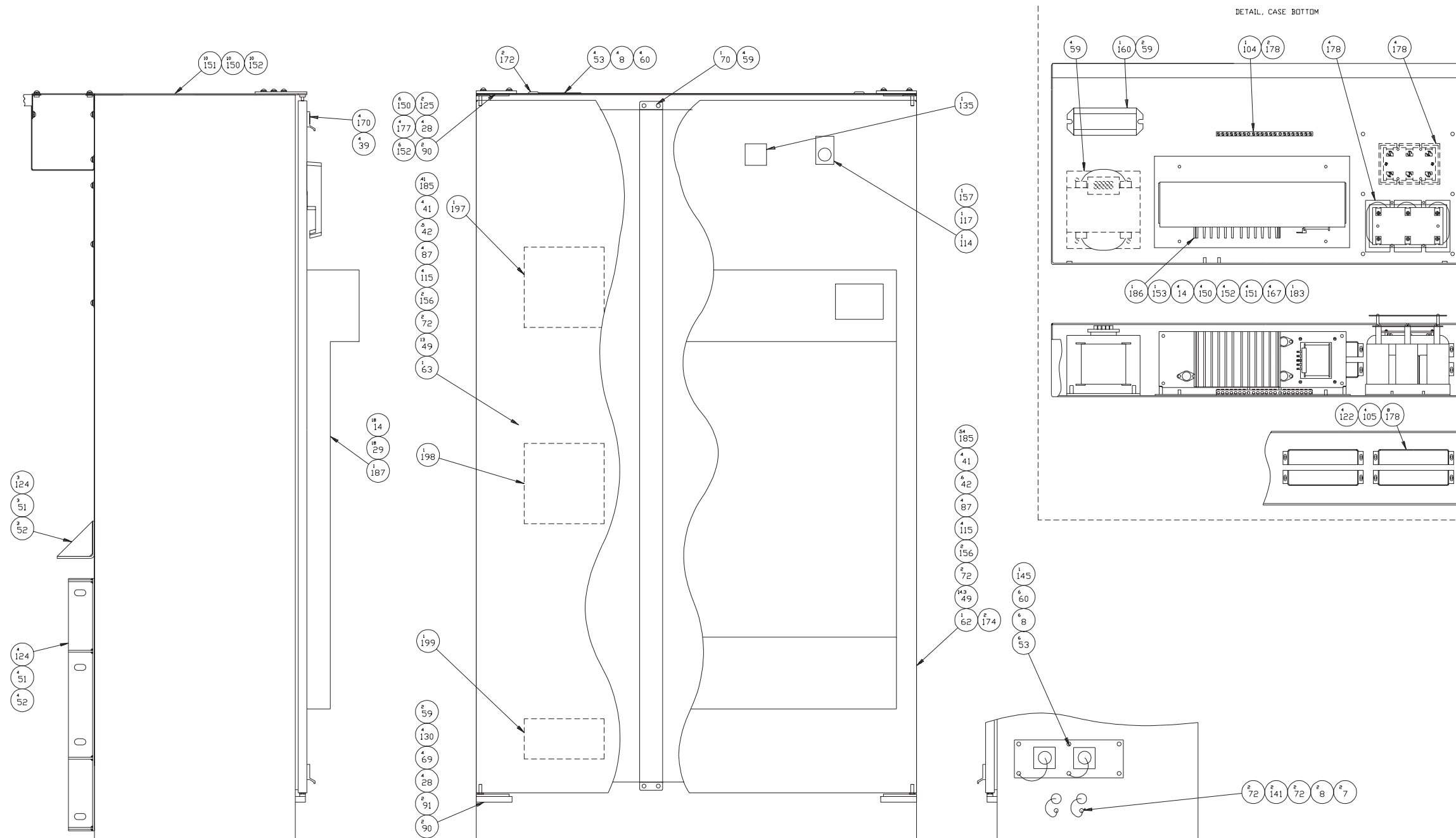
Power Case Assembly (CE Mark)

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
119	HGA001001902	1.0000	CONTACT, BLOCK
120	SG 001082104	2.0000	SUPPORT, CABLE BAR
121	MS 0303420	4.0000	SCREW, BUTT DN HD M4X.7 X 30M
122	HG 000415813	12.0000	BRACKET, FOAM
123	50 0010226	2.0000	GASKET ASSEMBLY 1/2 INCH
124	MW 0194010	7.0000	WASHER, LOCK
125	MS 0303619	2.0000	SCREW, BT. HD. M6X1.0 X 25MM
126	LD 0002672	1.0000	TAG LAYOUT, CL 18 CONTRL
127	LH 0009976	0.8000	GASKET TAPE-50' RL /FT
128	NC 001129802	1.0000	SUPPRESSOR
129	HG 00102240B	1.0000	SWITCH, DP DN COOLANT
130	MW 0193610	8.0000	WASHER, LOCK DIN-7980 M6X1.0
131	1820002874BU	31.3000	WIRE, DARK BLUE
132	SG 0010116MP	1.0000	GASKET, MEMBRANE PANEL
133	CN 000812213	1.0000	RELAY, 24VDC 4 NO CONTACTS
134	HG 001125905	1.0000	FITTING, STRAIGHT 1-1/4"
135	CL 0010646	1.0000	METER,RUN TIME
137	AH 0011508	2.0000	NUT, LOCK
138	GN 001047201	2.0000	RESISTOR
139	VL 0009175	0.1000	STRIP, MARKER 51-60
140	VF 001036101	1.0000	ADDER DECK
141	CK 001033101	2.0000	CAP PLUG 7/8
142	HG 0011555	1.0000	HEAT EXCHANGER
143	MN 0113510	1.0000	NUT, HEX
144	CL 000877601	1.0000	POWER SUPPLY
145	CL 0012147CE	1.0000	INTERFACE, BARFEED
146	MS 0303415	4.0000	SCREW, BT. HD. M4X.7,X 10MM
149	SG 0009175	0.1000	STRIP, MARKER 41-50
150	MW 0103610	84.0000	WASHER, FLAT M6 STEEL
151	MS 0303617	20.0000	SCREW, BT. HD. M6X1.0 X 16MM
152	MW 0183610	84.0000	M6 REG. LOCKWASHER
153	CL 000190401	1.0000	PLATE, POWER SUPPLY SUPPRT
154	HG 001022901	4.0000	CONDUIT, 1-1/4"
155	CL 000499073	1.0000	SPACER, SHIELD BAR-CEMARK
156	MN 0113410	14.0000	NUT, HEXAGON, 934 PLATED
157	CL 001037201	1.0000	PLATE, LEGEND
158	SG 0003011CX2	3.0000	CABLE ASSY - CX2A-CX2B
159	CS 001185014	1.0000	FAN, TUBEAXIAL TARZAN
160	CL 000023901	1.0000	BALLAST
161	NC 001047307	2.0300	HEAT SHRINKABLE TUBING
162	HG 001103201	149.0000	TERMINAL BLOCK,BLUE
163	SG 0003011CX1	1.0000	CABLE ASSY - CX1A-CX1B
164	CN 000953201	1.0000	GROMMET
165	18 001179102	1.0000	INPUT MODULE I/O SYSTEM
166	CS 001088403	0.3530	CEMENT, PVC
167	MS 0103516	4.0000	SCREW, SOC. HD. CAP.M5X.8X12
168	HG 0010224FB	1.0000	SWITCH, DP OFF COOLANT
169	HG 000378004	1.0000	COVER, RS232
170	VL 0011738	25.0000	LATCH, DOOR, VISE ACTION
171	SG 0003011JX1	3.0000	CABLE ASSY - JX1A-JX1B
172	CS 001033103	3.0000	PLUG, SNAP IN
173	0350304	1.0000	SCR, RD HD ST MCH 10-32X 1/4
174	DV 0010546	2.0000	NUT FOR GROUNDING PDST
175	SG 001001703	3.0000	HOLDER, FUSE 1P/W/O IND.CC F
176	CS 001022501	2.0000	NUT, CONDUIT
177	MS 0303618	4.0000	SCREW, M6-1 X 20

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
178	MN 0283510	18.0000	NUT, HEX SERRATED FLANGE
179	2500010229	5.0000	CONDUIT, 2-1/2 DIA. P & C FLE
180	VF 0011298	1.0000	DIODE, SUPPRESSOR
181	CL 001135001	1.0000	FILTER
182	HG 001103205	12.0000	JUMPER, 10 POLE
183	CL 001021564	1.0000	COVER, POWER SUPPLY - CEMARK
184	0170004	2.0000	SCREW, BIND. HD-SS 4-40X1/4
185	VL 000362301	2.0000	WASHER, EXT TOOTH-#4 STAINLE
186	VL 000962303	1.0000	CLAMP, CABLE 0.078"
187	SG 00112980275	3.0000	FERRITE CORE, .275"
188	SG 00112980402	2.0000	FERRITE CORE, .402"
189	SG 0010473	30.0000	TUBING, 3/8" TINNED
190	MS 0303414SS	1.0000	SCREW, BHD M4 X .7 X 8-SSTL
191	MW 0263410SS	1.0000	WASHER, EXT. STAR M4-SSTL
192	VL 000962302	1.0000	CLAMP, CABLE 0.125"
193	SG 000953201	12.0000	GROMMET, 5/32ID , 1/16" GAP
196	CL 0009532	7.0000	GROMMET
197	CL 0001990DFB	1.0000	BRACKET, FILTER BDX DOOR

NOT SHOWN

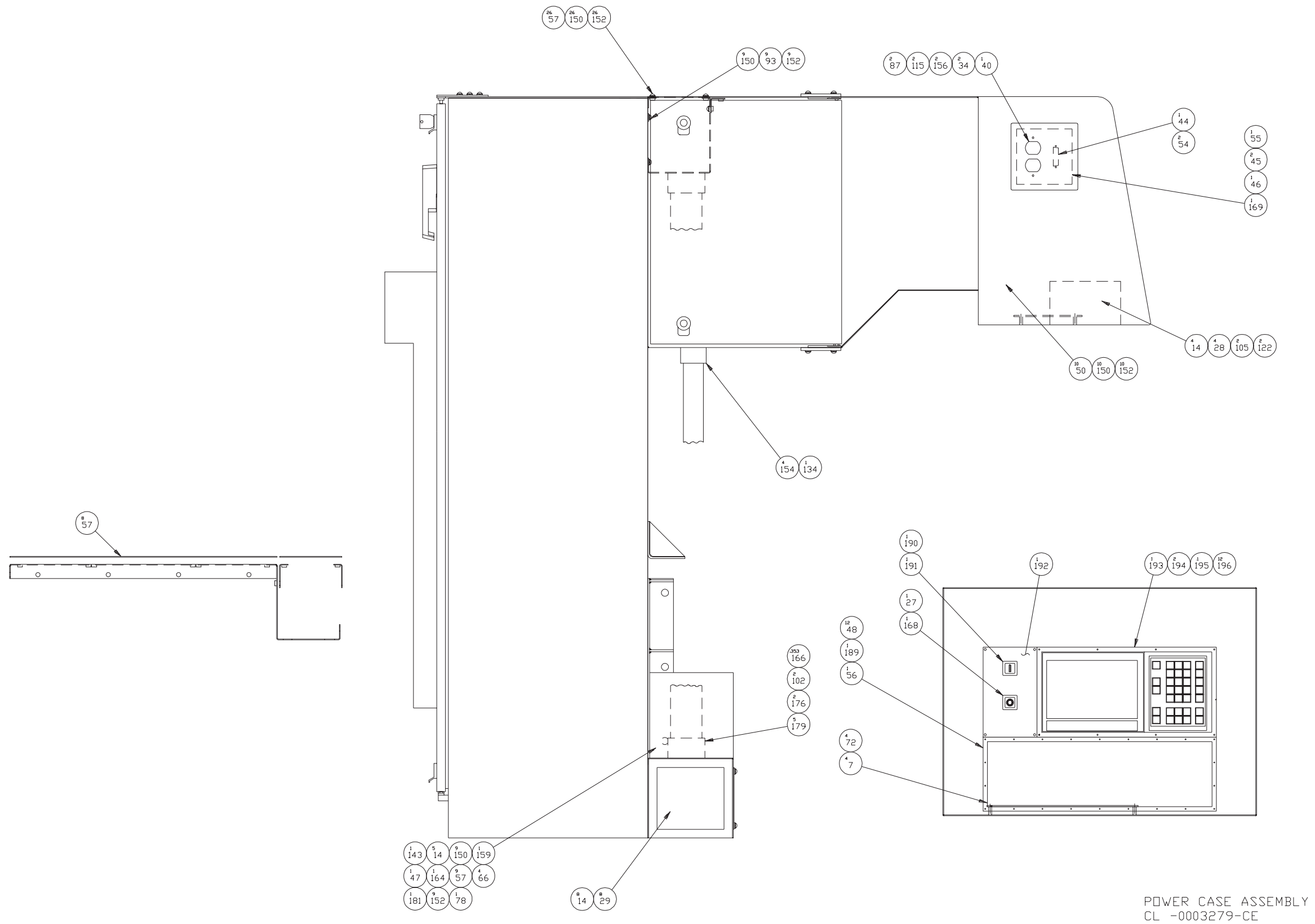




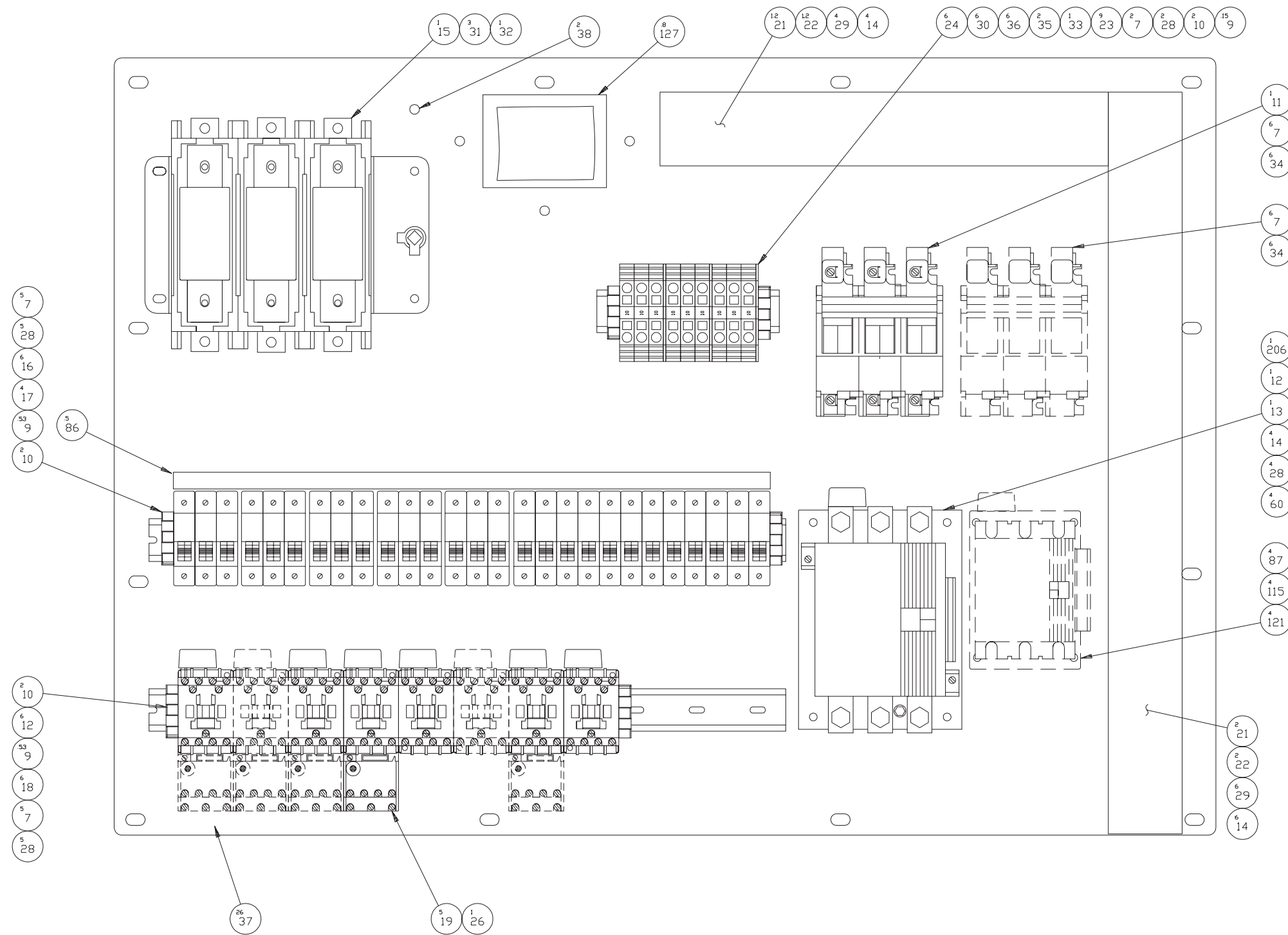
61 76 128 84 161 103 188 123 131
 64 65 88 82 126 83 92 77 43 116

POWER CASE ASSEMBLY
CL -0003279-CE

Power Case Assembly (Non-CE Mark)

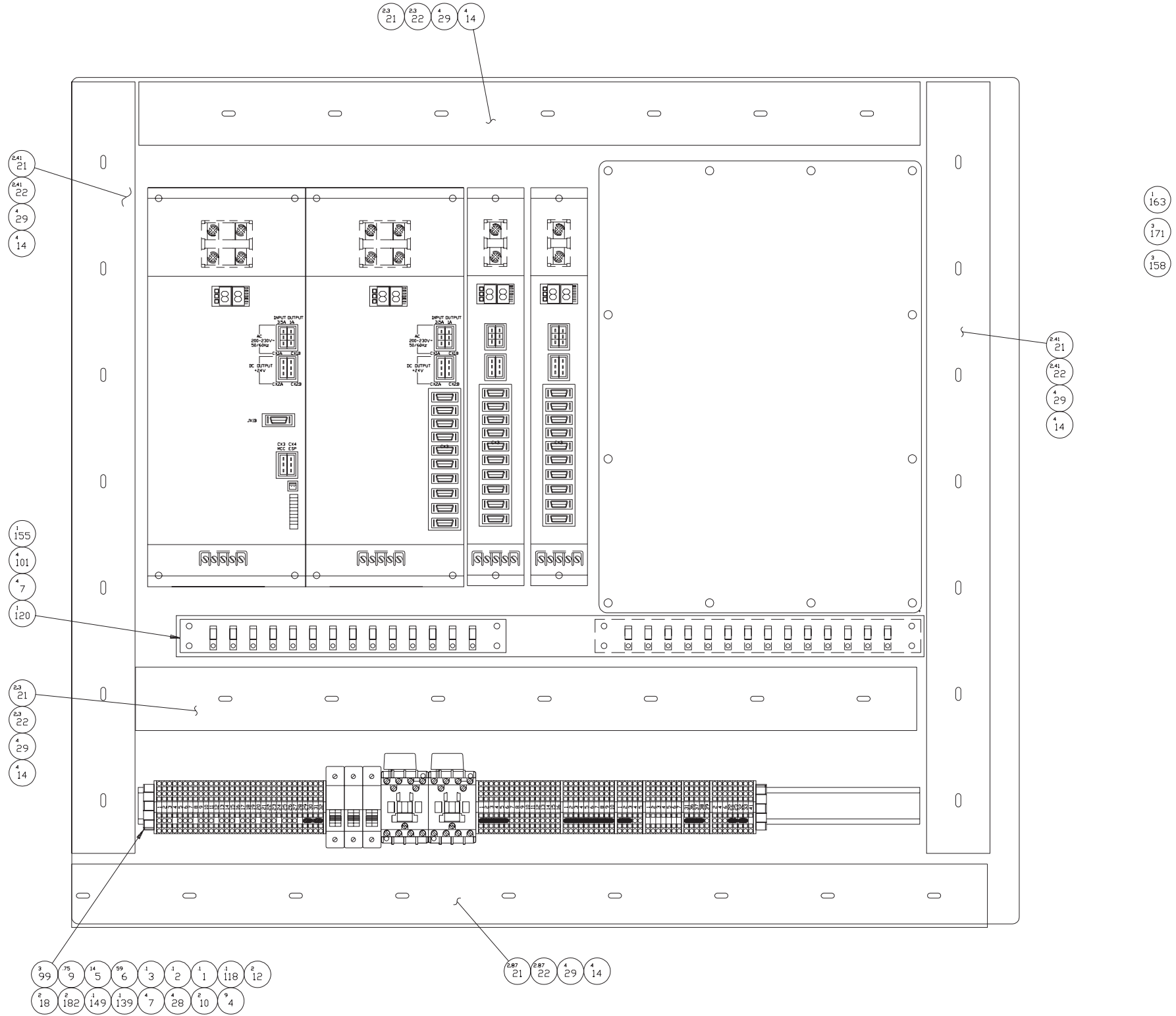


POWER CASE ASSEMBLY
CL -0003279-CE

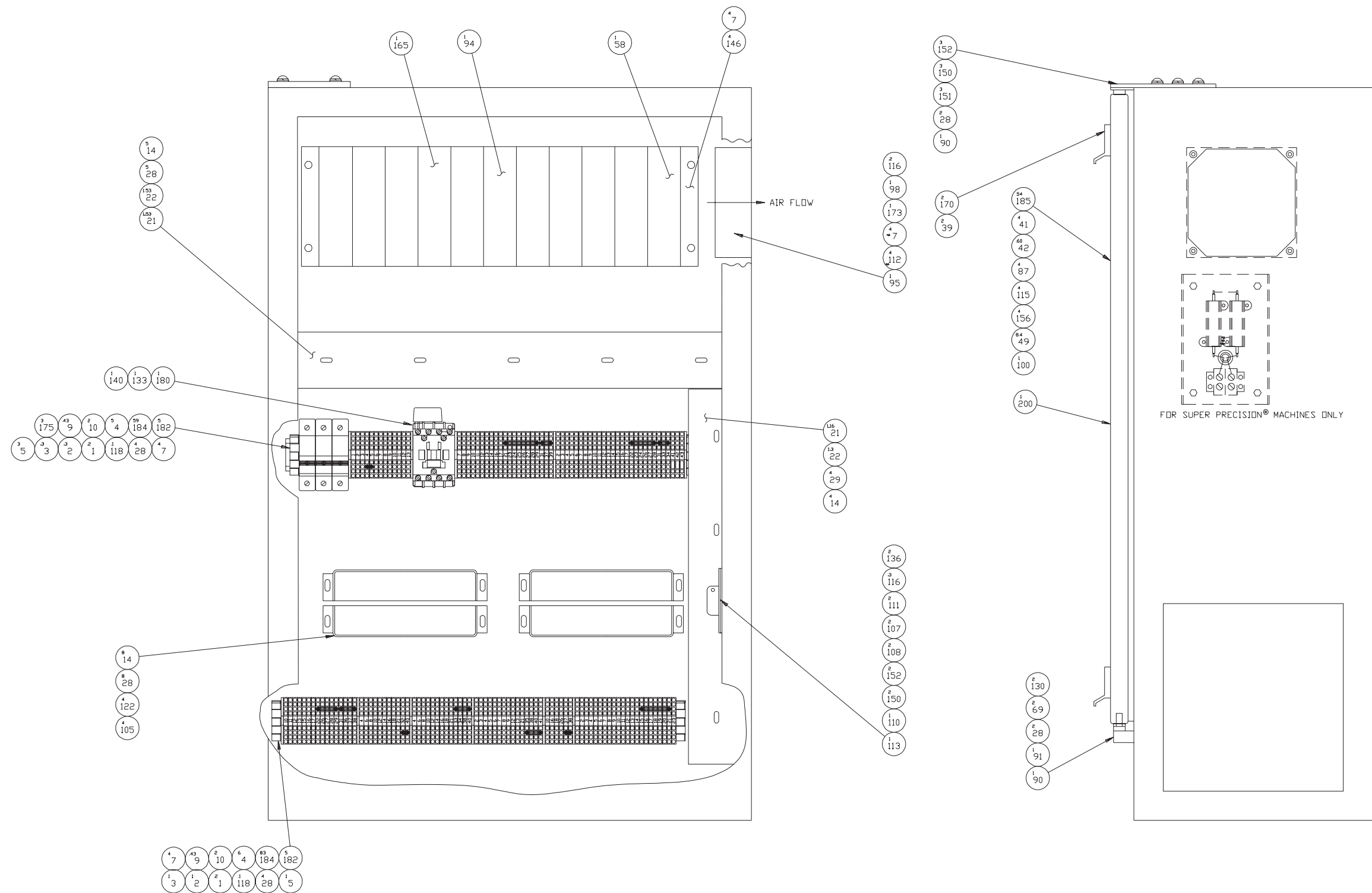


POWER CASE ASSEMBLY
CL -0003279-CE

Power Case Assembly (Non-CE Mark)

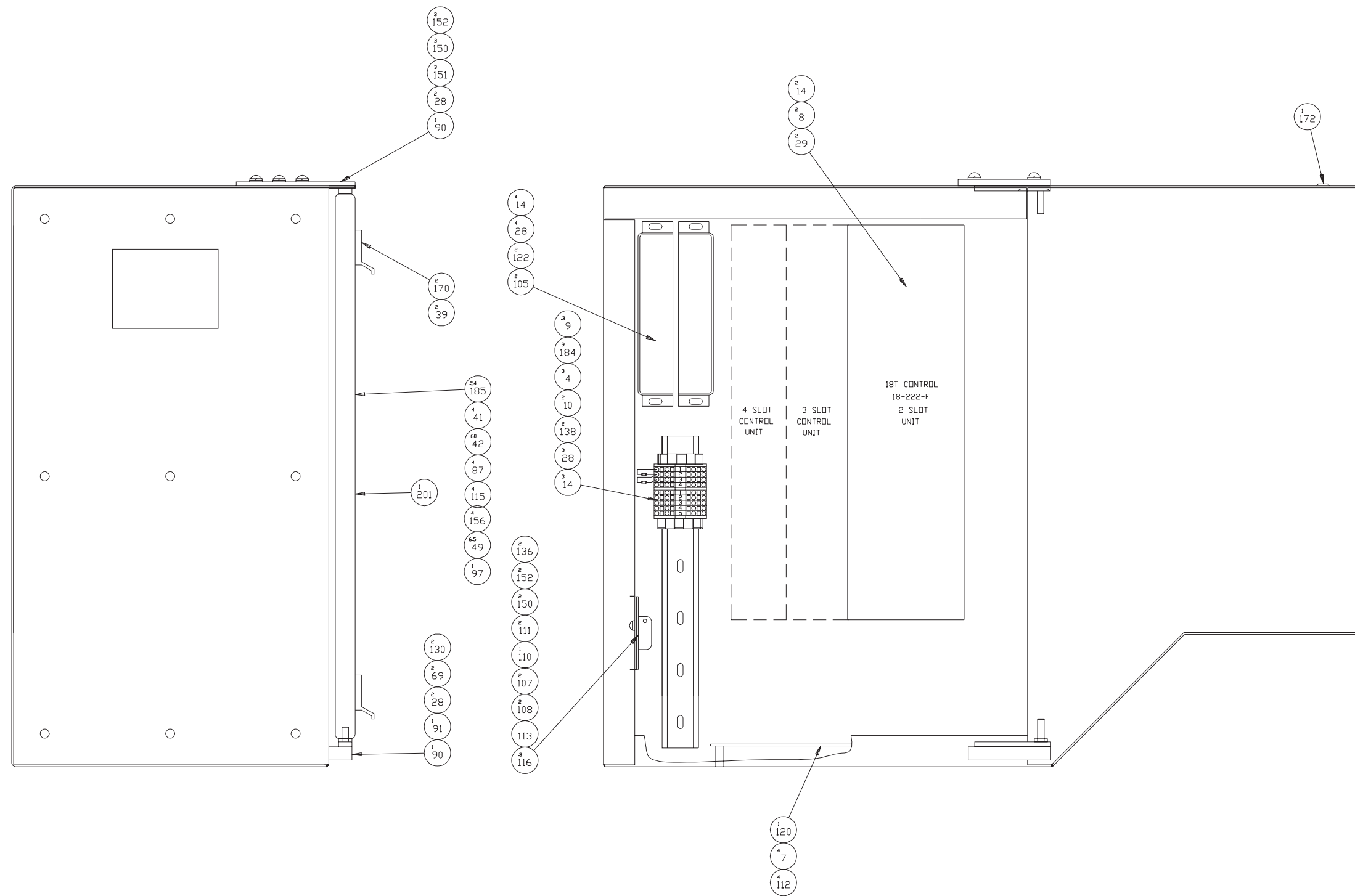


POWER CASE ASSEMBLY
CL -0003279-CE



POWER CASE ASSEMBLY
CL -0003279-CE

Power Case Assembly (Non-CE Mark)



POWER CASE ASSEMBLY
CL -0003279-CE

Power Case Assembly (Non-CE Mark)

ITEM	PART NUMBER	QUANTITY	DESCRIPTION	ASSEMBLY	LINK	DWG.SZ.
1	HG 000917502	0.5000	MARKER, STRIP 21-30	SEE ASSY NZ	MA	N
2	HG 000917501	1.4000	MARKER, STRIP 11-20	SEE ASSY NZ	MA	N
3	HG 0009175	1.4000	MARKER, STRIP 1-10	SEE ASSY NZ	MA	N
4	HG 001103203	23.0000	END PLATE	SEE ASSY NZ	MA	A
5	HG 001103202	18.0000	TERMINAL BLOCK, GREEN/YELLOW	SEE ASSY NZ	MA	A
6	HG 0011032	59.0000	TERMINAL BLOCK, GRAY	SEE ASSY NZ	MA	A
7	MW 0263410	58.0000	WASHER, EXT. STAR M4	SEE ASSY NZ	MA	N
8	MW 0103510	14.0000	WASHER, FLAT M5 X .8 STEEL	SEE ASSY NZ	MA	N
9	CK 9011032	3.1200	RAIL, DIN BLANK	SEE ASSY NZ	MA	N
10	HG 001103204	14.0000	END STOP	SEE ASSY NZ	MA	A
11	SG 001001704	1.0000	HOLDER, FUSE 3P 125A	SEE ASSY NZ	MA	N
12	VF 001129801	9.0000	FILTER	SEE ASSY NZ	MA	N
13	JB 001001602	1.0000	CONTACTOR, 180A	SEE ASSY NZ	MA	N
14	MW 0263510	99.0000	WASHER, M5 STEEL	SEE ASSY NZ	MA	N
15	CL 0010016	1.0000	DISCONNECT	SEE ASSY NZ	MA	A
16	SG 0010017	6.0000	HOLDER, FUSE 3P/W IND.CC FUS	SEE ASSY NZ	MA	N
17	SG 001001701	4.0000	HOLDER, FUSE 2P/W IND.CC FUS	SEE ASSY NZ	MA	N
18	CKA001036101	8.0000	CONTACTOR, NON-REVERSING	SEE ASSY NZ	MA	N
19	HG 0010449	5.0000	SHIELD, ANTI TAMPER	SEE ASSY NZ	MA	A
21	HG 0010821	18.1800	DUCT	SEE ASSY NZ	MA	N
22	HG 001082108	18.3200	COVER, FOR DUCT (HG 10821)	SEE ASSY NZ	MA	N
23	SG 001103201	9.0000	BLOCK, TERMINAL 6 AWG	SEE ASSY NZ	MA	N
24	SG 001103206	6.0000	GUARD, FINGER-TERMINAL BLOCK	SEE ASSY NZ	MA	N
26	193000983335	1.0000	RELAY, OVERLOAD	SEE ASSY NZ	MA	N
27	HG 001001901	1.0000	CONTACT BLOCK	SEE ASSY NZ	MA	N
28	MS 0303514	68.0000	SCREW, BT. HD. M5 X .8 X 8MM	SEE ASSY NZ	MA	N
29	MS 0303515	62.0000	SCREW, BT. HD. M5X.8,X 10MM	SEE ASSY NZ	MA	N
30	SG 001103205	6.0000	MARKER, WARNING TERMINAL BLD	SEE ASSY NZ	MA	N
31	SG 001011549	3.0000	COVER, FUSE, 200A	SEE ASSY NZ	MA	N
32	SG 001011550	1.0000	COVER, TERMINAL, 200A	SEE ASSY NZ	MA	N
33	SG 001103202	1.0000	END PALTE, TERMINAL BLOCK	SEE ASSY NZ	MA	N
34	MS 0303416	14.0000	SCREW, BT. HD. M4X.7,X 12MM	SEE ASSY NZ	MA	N
35	SG 001103203	2.0000	SEPARATOR, TERMINAL BLOCK	SEE ASSY NZ	MA	N
36	SG 001103204	6.0000	JUMPER, TERMINAL BLOCK	SEE ASSY NZ	MA	N
37	F3 000997701	26.0000	LABEL, ID	SEE ASSY NZ	MA	N
38	HG 0010546	2.0000	NUT, 1/4-20 BRASS HEX	SEE ASSY NZ	MA	N
39	HG 0011738	8.0000	DOOR PULL	SEE ASSY NZ	MA	N
40	HG 001204201	1.0000	RECEPTACLE, 115VAC, 3 WIRE	SEE ASSY NZ	MA	A
41	HC 0010746	16.0000	HOOK, S-TYPE	SEE ASSY NZ	MA	N
42	SB 0011962	2.3000	CHAIN, RESTRAINT	SEE ASSY NZ	MA	N
43	LM 0008104	30.0000	TY-RAP	SEE ASSY NZ	MA	N
44	CN 0012042 B	1.0000	BLOCKS, LATCHING	SEE ASSY NZ	MA	N
45	CC 0011947	2.0000	STRIP, MAGNETIC	SEE ASSY NZ	MA	N
46	CN 0011062	1.0000	KNOB	SEE ASSY NZ	MA	N
47	MS 0303518	1.0000	SCREW, BT. HD. M5X.8,X 20MM	SEE ASSY NZ	MA	N
49	CN 001119801	42.2000	SEAL, DOOR	SEE ASSY NZ	MA	N
50	MS 0103616	10.0000	SCREW, SOC.HD.CAP M6X1.0X12MM	SEE ASSY NZ	MA	N
51	CT 0002068	7.0000	WASHER	SEE ASSY NZ	MA	N
52	MS 0104018	7.0000	SCREW, SOC.HD.CAP.M10X1.5 X20	SEE ASSY NZ	MA	N
53	MS 0303516	10.0000	SCREW, BUT.HD.M5X.8X12MM	SEE ASSY NZ	MA	N
54	0300004	2.0000	SCREW	SEE ASSY NZ	MA	N
55	0300204	1.0000	SCREW BT HD 8-32 X 1/4	SEE ASSY NZ	MA	N
56	CS 0012099	1.0000	BEZEL, PANEL	SEE ASSY NZ	MA	D
57	MS 0303616	43.0000	SCREW, BT. HD. M6X1.0 X 12MM	SEE ASSY NZ	MA	N
58	JB 001179149CE	1.0000	MODULE, OPTIION	SEE ASSY NZ	MA	N

ITEM	PART NUMBER	QUANTITY	DESCRIPTION	ASSEMBLY	LINK	DWG.SZ.
59	MN 0283610	12.0000	NUT, HEX SERRATED FLANGE	SEE ASSY NZ	MA	N
60	MW 0183510	14.0000	WASHER, LOCK REG. M5 X .8 SC	SEE ASSY NZ	MA	N
61	18A00030103	12.5000	CABLE 3 CONDUCTOR 18 AWG	SEE ASSY NZ	MA	N
62	CL 000415811	1.0000	DOOR, POWERCASE (RIGHT)	SEE ASSY NZ	MA	D
63	CL 000415810	1.0000	DOOR, POWERCASE (LEFT)	SEE ASSY NZ	MA	D
64	1420002874BL	12.0000	WIRE	SEE ASSY NZ	MA	A
65	RBB0009188	4.0000	BUTT SPLICE	SEE ASSY NZ	MA	N
66	MS 0303517	4.0000	SCREW, BUTTDN HD. M5X.8X16MM	SEE ASSY NZ	MA	N
69	MS 0103619	8.0000	SCREW, SOC.HD.CAP M6X1.0X25M	SEE ASSY NZ	MA	N
70	CL 000415808	1.0000	DIVIDER, DOOR	SEE ASSY NZ	MA	D
72	MS 0303414	12.0000	BUTTON HEAD SCREW	SEE ASSY NZ	MA	N
76	CS 001204214	2.0000	RECEPTACLE	SEE ASSY NZ	MA	N
77	CS 001204215	2.0000	CAP, RECEPTACLE	SEE ASSY NZ	MA	N
78	CL 0004158FM	1.0000	DMOUNT, FAN-FAN HOUSING PWR C	SEE ASSY NZ	MA	D
82	F3 0009977	4.0000	LABEL, CABLE	SEE ASSY NZ	MA	N
83	F3 000997702	46.0000	LABEL, WIRE, SMALL	SEE ASSY NZ	MA	N
84	LD 0002672AH	1.0000	LAYOUT, RAM TURRET	SEE ASSY NZ	MA	N
86	MC 000812204	0.5000	BUSBAR, 19, 3 POLE	SEE ASSY NZ	MA	N
87	MW 0183410	22.0000	WASHER, LOCK M4 STEEL	SEE ASSY NZ	MA	N
88	LD 0002642 L	1.0000	TAGS, CABLE CHIP CONVEYOR	SEE ASSY NZ	MA	A
90	SBA0011939	8.0000	HINGE PIN ASSEMBLY	SEE ASSY NZ	MA	A
91	AD 0003623	4.0000	WASHER, NYLON	SEE ASSY NZ	MA	A
92	LD 0002468	1.0000	INSTR INTERFACE INSTALL OPTI	SEE ASSY NZ	MA	A
93	MS 0103617	9.0000	SCREW, SOC.HD.CAP M6X1.0X16M	SEE ASSY NZ	MA	N
94	18 0011791CE	2.0000	MODULE,DC OUTPUT,8 POINT-CEM	SEE ASSY NZ	MA	A
95	CN 001134901	1.0000	FAN	SEE ASSY NZ	MA	N
97	CL 000415821	1.0000	DOOR, OTC CONTROL CASE	SEE ASSY NZ	MA	D
98	WD 0009028	1.0000	WASHER, LOCK	SEE ASSY NZ	MA	N
99	SG 001001702	3.0000	HOLDER, FUSE 1P/W IND.CC FUS	SEE ASSY NZ	MA	N
100	CL 000415818	1.0000	DOOR, I/O CASE	SEE ASSY NZ	MA	D
101	MS 0303410	4.0000	SCREW, BT. HD. M4X.7,X 3MM	SEE ASSY NZ	MA	N
102	CS 0010225	2.0000	FITTING, PVC CONDUIT	SEE ASSY NZ	MA	N
103	CK 000918818	22.0000	FERRULES, 18 AWG	SEE ASSY NZ	MA	N
104	SB 0011888	1.0000	KIT, GROUND BAR	SEE ASSY NZ	MA	N
105	HG 0011350	12.0000	FILTER, FOAM	SEE ASSY NZ	MA	A
107	6 0008137	4.0000	WASHER, LOCK	SEE ASSY NZ	MA	N
108	0300103	4.0000	SCREW BT HD 6-32 X 3/16	SEE ASSY NZ	MA	N
110	CL 000415832	2.0000	BRACKET, SWITCH,OTC & I/O CA	SEE ASSY NZ	MA	B
111	MS 0303615	4.0000	SCREW, BT. HD. M6X1.0X 10MM	SEE ASSY NZ	MA	N
112	MS 0303417	8.0000	SCREW, BT. HD. M4X.7,X 16MM	SEE ASSY NZ	MA	N
113	CL 001022407	2.0000	SWITCH, INTERLOCK	SEE ASSY NZ	MA	N
114	HGA000283407	1.0000	SWITCH, OPERATOR	SEE ASSY NZ	MA	N
115	MW 0103410	22.0000	WASHER, FLAT M4 X .7 STEEL	SEE ASSY NZ	MA	N
116	NC 001047306	2.8000	HEAT SHRINKABLE TUBING	SEE ASSY NZ	MA	N
117	HGA001001901	1.0000	CONTACT BLOCK	SEE ASSY NZ	MA	N
118	HG 000917503	0.3000	MARKER STRIP 31-40	SEE ASSY NZ	MA	N
120	SG 001082104	2.0000	SUPPORT, CABLE BAR	SEE ASSY NZ	MA	B
121	MS 0303420	4.0000	SCREW, BUTTDN HD M4X.7 X 30M	SEE ASSY NZ	MA	N
122	HG 000415813	12.0000	BRACKET, FOAM	SEE ASSY NZ	MA	C
123	50 0010226	2.0000	GASKET ASSEMBLY 1/2 INCH	SEE ASSY NZ	MA	N
124	MW 0194010	7.0000	WASHER, LOCK	SEE ASSY NZ	MA	N
125	MS 0303619	2.0000	SCREW, BT. HD. M6X1.0 X 25MM	SEE ASSY NZ	MA	N
126	LD 0002672	1.0000	TAG LAYOUT, CL 18 CONTRDL	SEE ASSY NZ	MA	A
127	LH 0009976	0.8000	GASKET TAPE-50' RL /FT	SEE ASSY NZ	MA	N
128	NC 001129802	1.0000	SUPPRESSOR	SEE ASSY NZ	MA	N

POWER CASE ASSEMBLY
CL -0003279-CE

Power Case Assembly (Non-CE Mark)

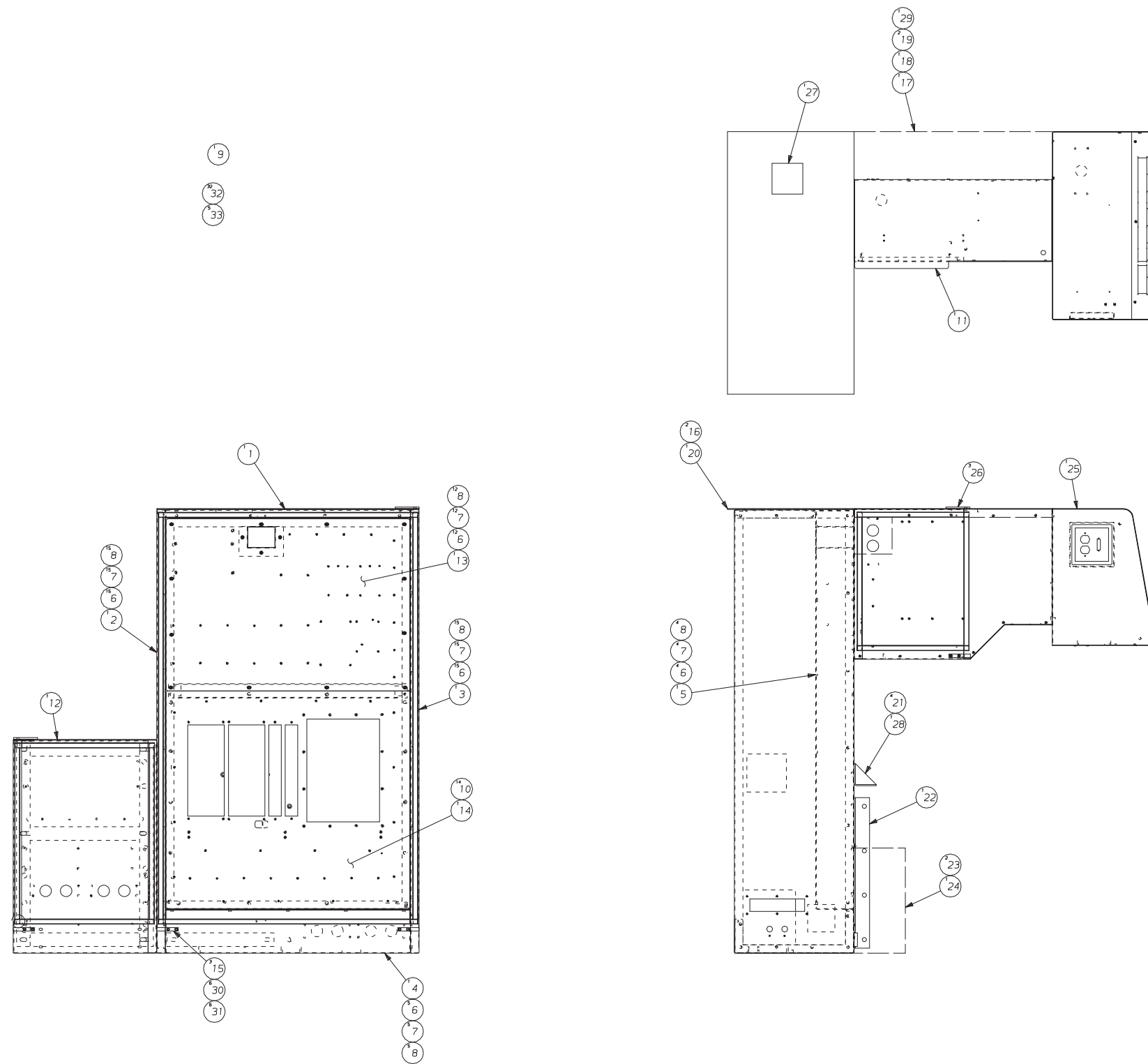
ITEM	PART NUMBER	QUANTITY	DESCRIPTION	ASSEMBLY	LINK	DWG.SZ.
130	MW 0193610	8.0000	WASHER, LOCK DIN-7980 M6X1.0	SEE ASSY NO.	MA	N
131	1820002874BU	63.0000	WIRE, DARK BLUE	SEE ASSY NO.	MA	N
133	CN 000812213	1.0000	RELAY, 24VDC 4 NO CONTACTS	SEE ASSY NO.	MA	N
134	HG 001125905	1.0000	FITTING, STRAIGHT 1-1/4"	SEE ASSY NO.	MA	N
135	CL 0010646	1.0000	METER,RUN TIME	SEE ASSY NO.	MA	N
136	AH 0009188RB	4.0000	CONNECTOR,	SEE ASSY NO.	MA	N
138	GN 001047201	2.0000	RESISTOR	SEE ASSY NO.	MA	N
139	VL 0009175	0.1000	STRIP, MARKER 51-60	SEE ASSY NO.	MA	N
140	VF 001036101	1.0000	ADDER DECK	SEE ASSY NO.	MA	N
141	CK 001033101	2.0000	CAP PLUG 7/8	SEE ASSY NO.	MA	N
143	MN 0113510	1.0000	NUT, HEX	SEE ASSY NO.	MA	N
145	CL 0012147CE	1.0000	INTERFACE, BARFEED	SEE ASSY NO.	MA	D
146	MS 0303415	4.0000	SCREW, BT. HD. M4X.7X 10MM	SEE ASSY NO.	MA	N
149	SG 0009175	0.1000	STRIP, MARKER 41-50	SEE ASSY NO.	MA	N
150	MW 0103610	84.0000	WASHER, FLAT M6 STEEL	SEE ASSY NO.	MA	N
151	MS 0303617	20.0000	SCREW, BT. HD. M6X1.0 X 16MM	SEE ASSY NO.	MA	N
152	MW 0183610	84.0000	M6 REG. LOCKWASHER	SEE ASSY NO.	MA	N
153	CL 000190401	1.0000	PLATE, POWER SUPPLY SUPPORT	SEE ASSY NO.	MA	C
154	HG 001022901	4.0000	CONDUIT, 1-1/4"	SEE ASSY NO.	MA	N
155	CL 000499073	1.0000	SPACER, SHIELD BAR-CEMARK	SEE ASSY NO.	MA	B
156	MN 0113410	14.0000	NUT, HEXAGON, 934 PLATED	SEE ASSY NO.	MA	N
157	CL 001037201	1.0000	PLATE, LEGEND	SEE ASSY NO.	MA	A
158	SG 0003011CX2	3.0000	CABLE ASSY - CX2A-CX2B	SEE ASSY NO.	MA	B
159	CS 001185014	1.0000	FAN, TUBEAXIAL TARZAN	SEE ASSY NO.	MA	N
160	CL 000023901	1.0000	BALLAST	SEE ASSY NO.	MA	N
161	CL 001036605	1.0000	TAG KIT, FOOTSWITCH	SEE ASSY NO.	MA	A
163	SG 0003011CX1	1.0000	CABLE ASSY - CX1A-CX1B	SEE ASSY NO.	MA	B
164	CN 000953201	1.0000	GRDMMET	SEE ASSY NO.	MA	N
165	18 001179102	1.0000	INPUT MODULE I/O SYSTEM	SEE ASSY NO.	MA	A
166	CS 001088403	0.3530	CEMENT, PVC	SEE ASSY NO.	MA	N
167	MS 0103516	4.0000	SCREW, SOC. HD. CAP.M5X.8X12	SEE ASSY NO.	MA	N
168	HG 0010224FB	1.0000	SWITCH, DP OFF COOLANT	SEE ASSY NO.	MA	A
169	HG 000378004	1.0000	COVER, RS232	SEE ASSY NO.	MA	A
170	VL 0011738	8.0000	LATCH, DOOR, VISE ACTION	SEE ASSY NO.	MA	N
171	SG 0003011JX1	3.0000	CABLE ASSY - JX1A-JX1B	SEE ASSY NO.	MA	B
172	CS 001033103	3.0000	PLUG, SNAP IN	SEE ASSY NO.	MA	N
173	0350304	1.0000	SCR, RD HD ST MCH 10-32X 1/4	SEE ASSY NO.	MA	N
174	DV 0010546	2.0000	NUT FOR GROUNDING POST	SEE ASSY NO.	MA	N
175	SG 001001703	3.0000	HOLDER, FUSE IP/W/O INDC C F	SEE ASSY NO.	MA	N
176	CS 001022501	2.0000	NUT, CONDUIT	SEE ASSY NO.	MA	N
177	MS 0303618	4.0000	SCREW, M6-1 X 20	SEE ASSY NO.	MA	N
178	MN 0283510	18.0000	NUT, HEX SERRATED FLANGE	SEE ASSY NO.	MA	N
179	2500010229	5.0000	CONDUIT, 2-12 DIA. P & C FLE	SEE ASSY NO.	MA	N
180	VF 0011298	1.0000	DIODE, SUPPRESSOR	SEE ASSY NO.	MA	N
181	CL 001135001	1.0000	FILTER	SEE ASSY NO.	MA	A
182	HG 001103205	12.0000	JUMPER, 10 PDLE	SEE ASSY NO.	MA	A
183	CL 001021564	1.0000	COVER, POWER SUPPLY - CEMARK	SEE ASSY NO.	MA	D
184	HG 001103201	151.0000	TERMINAL BLOCK,BLUE	SEE ASSY NO.	MA	A
185	NC 001047307	2.0300	HEAT SHRINKABLE TUBEING	SEE ASSY NO.	MA	N
186	CL 000877601	1.0000	POWER SUPPLY	SEE ASSY NO.	MA	N
187	HG 0011555	1.0000	HEAT EXCHANGER	SEE ASSY NO.	MA	A
188	AH 0011508	2.0000	NUT, LOCK	SEE ASSY NO.	MA	N
189	SG 0010116MP	1.0000	GASKET, MEMBRANE PANEL	SEE ASSY NO.	MA	D

ITEM	PART NUMBER	QUANTITY	DESCRIPTION	ASSEMBLY	LINK	DWG.SZ.
190	HG 0010224DB	1.0000	SWITCH, DP ON COOLANT	SEE ASSY NO.	MA	A
191	HG 001001902	1.0000	CONTACT, BLOCK	SEE ASSY NO.	MA	N
192	CL 000415841	1.0000	PANEL, ON-OFF	SEE ASSY NO.	MA	C
193	CL 000022144	1.0000	FACEPLATE,CONTROL HOUSING	SEE ASSY NO.	MA	D
194	CL 0010116	2.0000	GASKET	SEE ASSY NO.	MA	N
195	3 001088401	0.1000	ADHESIVE	SEE ASSY NO.	MA	N
196	MS 0303315	24.0000	SCREW, BUTON HD. M3X5X10MM	SEE ASSY NO.	MA	N
197	CL 0010522CE1	1.0000	LABEL, UPPER POWER CASE	SEE ASSY NO.	MA	A
198	CL 0010522CE2	1.0000	LABEL, LOWER POWER CASE	SEE ASSY NO.	MA	A
199	CL 0010522CE3	1.0000	LABEL, FLOOR POWER CASE	SEE ASSY NO.	MA	A
200	CL 0010522CE4	1.0000	LABEL, I/O CASE	SEE ASSY NO.	MA	A
201	CL 0010522CE5	1.0000	LABEL, CONTROL CASE	SEE ASSY NO.	MA	A
202	CL 0008220CE	1.0000	ELECTRICAL DIAGRAMS-CL-(CEMA	SEE ASSY NO.	ME	C
203	LD 0002927	1.0000	CABLE CHART, CL-CE	SEE ASSY NO.	ME	N
204	CL 0003011CEC	1.0000	POWER CASE CABLE PACKAGE	SEE ASSY NO.	MA	N
205	CL 0003279WPC	1.0000	POWER CASE WIRE PACKAGE	SEE ASSY NO.	MA	N
206	CL 0010115 T	1.0000	COVER, TERMINAL	SEE ASSY NO.	MA	N
208	CL 0012024CEDB	1.0000	DATA BASE, WIRE & CABLE	SEE ASSY NO.	ME	N

NOT SHOWN



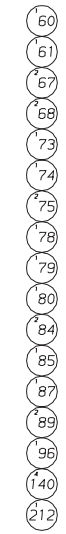
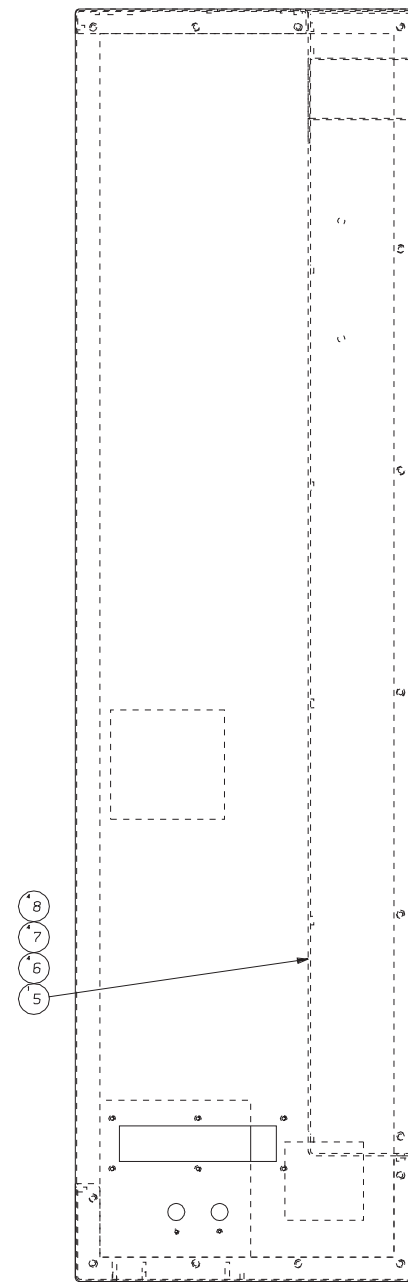
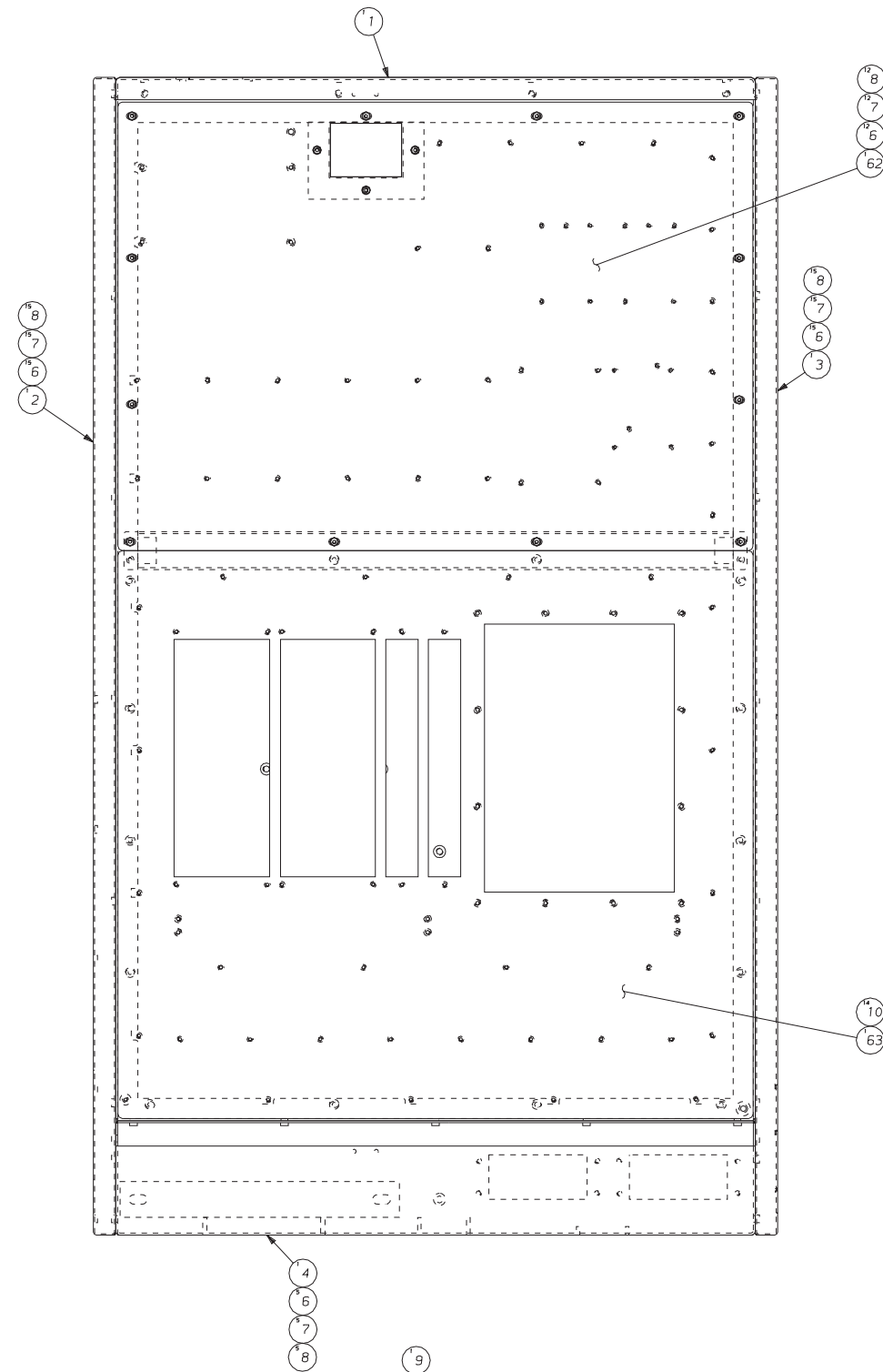
POWER CASE ASSEMBLY
CL -0003279-CE



33	SG-0010805-02	5	TAPE, .430" EMI FOIL
32	SG-0010805	32	TAPE, 3/4" EMI FOIL
31	MW-0193610	6	LOCKWASHER, M6
30	MS-0103620	6	SCREW, M6-1.0x30mmLg
29	CL-0010215-44	1	COVER, SPINDLE MTR. COMP.
28	CL-0004158-33	1	POWERCASE MTG. BRACKET
27	HG-0004158-11	1	COVER
26	HG-0004158-12	3	PLATE, DOOR SUPPORT
25	CL-0000221-EMCH	1	CONTROL WELD ASSEMBLY
24	CL-0004158-FT	1	COVER
23	CL-0010115-18	2	FAN HOUSING
22	CL-0004158-34	1	POWERCASE MTG. BRACKET
21	CT-0002068	4	WASHER
20	CLA-0004158-EMTP	1	PANEL, POWERCASE TOP
19	CL-0004158-27	2	WIRE WAY SUPPORT
18	CL-0004158-26	1	WIRE WAY COVER
17	CL-0004158-25	1	WIREWAY, UPPER
16	CL-0004158-17	2	PLATE, ATTACHMENT
15	CL-0004158-22	3	SUPPORT, HINGE PIN ASSEMB
14	CLA-0004158-46	1	PANEL, LOWER COMP. MTG.
13	CLA-0004158-45	1	PANEL, UPPER COMP. MTG.
12	CL-0004158-EM15	1	I/O CASE WELD ASSEMBLY
11	CL-0004158-EMCC	1	CONTROL CASE WELD ASSEMBL
10	MN-0283610	14	NUT, M6-1.0 FLANGE
9	GE-0010884	1	SILICONE, GE
8	MW-0183610	51	LOCKWASHER, M6
7	MW-0103610	51	WASHER, M6
6	MS-0303617	51	SCREW, M6-1.0
5	CL-0004158-EM42	1	SUPPORT, PC BACK
4	CL-0004158-EM44	1	SUPPORT, PC BOTTOM
3	CL-0004158-EM47	1	SUPPORT, PC RIGHT
2	CL-0004158-EM50	1	SUPPORT, PC LEFT
1	CLA-0004158-EM43	1	SUPPORT, PC TOP
ITEM	PART NUMBER	QTY	DESCRIPTION

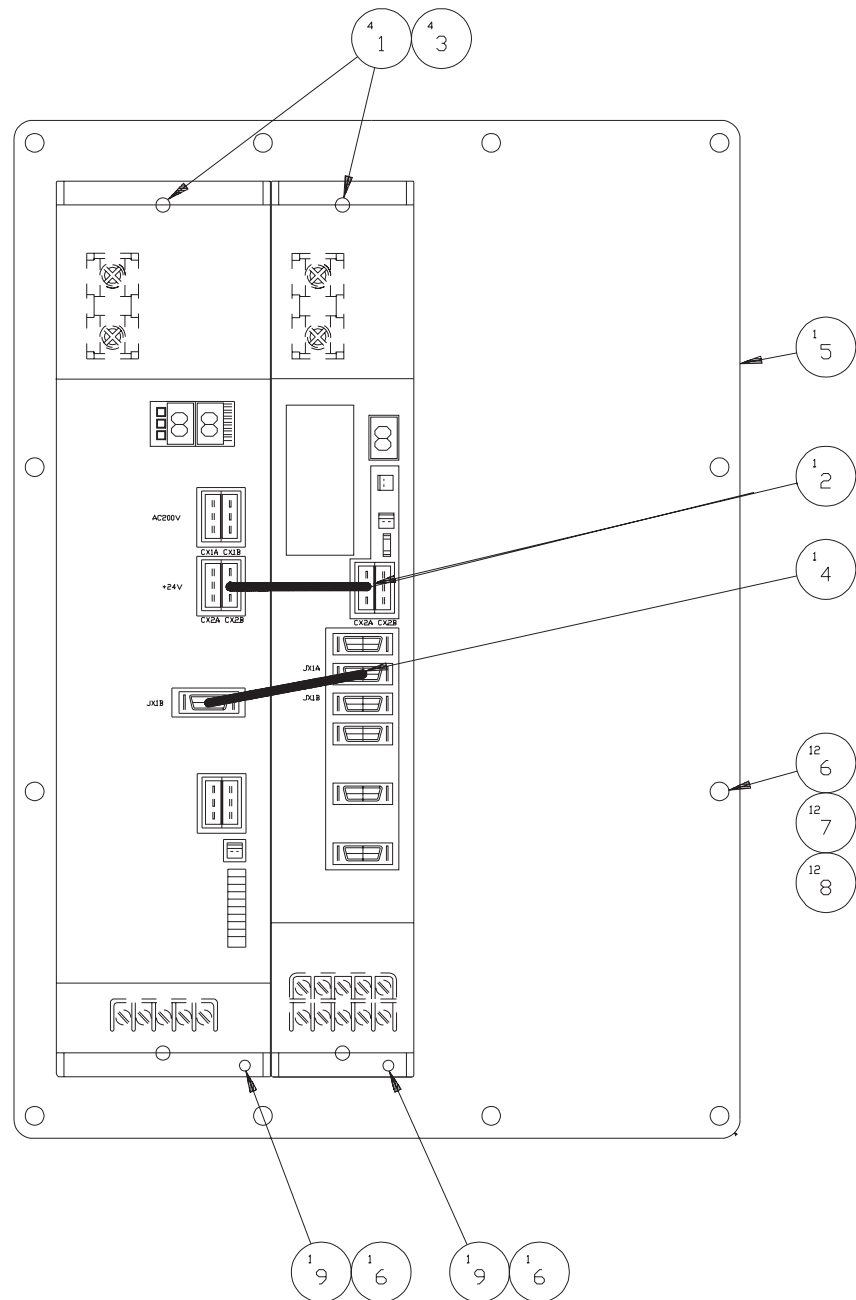
NAME: POWERCASE, I/O CASE, CONTROL
 PART NUMBER: CLA-0004158-EMC
 SHEET: 1 of 1
 REV LEVEL: C

Power Case Enclosure Assembly (Non-CE Mark)



212	CL-0004158-31	1	COVER, TOP
140	CT-0002068	4	WASHER
96	HG -0004158-11	1	COVER
89	HG -0004158-12	2	DOOR SUPPORT
87	CLA-0000221-CH	1	CONE
85	CL -0004158-FT	1	FAN HOUSING
84	CL -0010115-18	2	COVER
80	CL -0004158-34	1	POWER CASE MOUNTING BRACKE
79	CL -0004158-33	1	POWER CASE MOUNTING BRACKE
78	CL-0004158-TPCE	1	PANEL, POWERCASE TOP
75	CL -0004158-27	2	WIRE WAY SUPPORT
74	CL -0004158-26	1	WIRE WAY COVER
73	CL-0004158-25	1	WIRE WAY
68	CL -0004158-17	2	TOP SUPPORT PLATE
67	CL -0004158-22	2	HINGE PIN BRACKET
63	CLA-0004158-46	1	PANEL, LOWER COMP. MTG.
62	CLA-0004158-45	1	PANEL, UPPER COMP. MTG.
61	CL-0004158-15CE	1	I/O CASE WELD ASSEMBLY
60	CL-0004158-CCCE	1	CONTROL CASE ASSEMBLY
10	MN-0283610	14	NUT, M6-1.0 FLANGE
9	GE-0010884	1	SILICONE, GE
8	MW-0183610	51	LOCKWASHER, M6
7	MW-0103610	51	WASHER, M6
6	MS-0303617	51	SCREW, M6-1.0
5	CLA-0004158-42	1	SUPPORT, PC BACK
4	CLA-0004158-44	1	SUPPORT, PC BOTTOM
3	CL-0004158-47	1	SUPPORT, PC RIGHT
2	CL-0004158-50	1	SUPPORT, PC LEFT
1	CL-0004158-43	1	SUPPORT, PC TOP
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
POWERCASE ENCLOSURE ASSEMBLY
PART NUMBER
CLA-0004158-PCCE
REV LEVEL
B
SHEET 1 of 1



ITEM	PART NUMBER	QUANTITY	DESCRIPTION	ASSEMBLY	LINK	DWG.SZ.
1	MW 0183510	4.0000	WASHER, LOCK REG. M5 X .8 SC	SEE ASSY NO.	MA	N
2	SG 0003011CX2	1.0000	CABLE ASSY - CX2A-CX2B	SEE ASSY NO.	MA	B
3	MS 0303517	4.0000	SCREW, BUTON HD. M5X.8X16MM	SEE ASSY NO.	MA	N
4	SG 0003011JX1	1.0000	CABLE ASSY - JX1A-JX1B	SEE ASSY NO.	MA	B
5	CL 000190405	1.0000	PLATE, <LT> DRIVE MOUNTING	SEE ASSY NO.	MA	D
6	MW 0183610	14.0000	M6 REG. LOCKWASHER	SEE ASSY NO.	MA	N
7	MW 0103610	12.0000	WASHER, FLAT M6 X 1.0 STEEL	SEE ASSY NO.	MA	N
8	MS 0303617	12.0000	SCREW, BT. HD. M6X1.0 X 16MM	SEE ASSY NO.	MA	N
9	MS 0103616	2.0000	SCREW,SDC.HD.CAP M6X1.0X12MM	SEE ASSY NO.	MA	N
10	CL 0010522CE06	1.0000	LABEL, OPTION PANEL	SEE ASSY NO.	MA	A
11	CL 0003279WPLT	1.0000	WIRE PACKAGE, LIVE TOOLING	SEE ASSY NO.	MA	N
12	CL 0003011CELT	1.0000	CABLE PACKAGE-LIVE TOOLING	SEE ASSY NO.	MA	N
13	SG 001082104	1.0000	SUPPORT, CABLE BAR	SEE ASSY NO.	MA	B
14	MS 0303410	4.0000	SCREW, BT. HD. M4X.7,X 3MM	SEE ASSY NO.	MA	N
15	MW 0263410	4.0000	WASHER, EXT. STAR M4	SEE ASSY NO.	MA	N
16	SG 000961014	3.0000	FUSE, GI, 22 X 58 MM, 32A	SEE ASSY NO.	MA	N
17	SG 001001704	1.0000	HOLDER, FUSE 3P 125A	SEE ASSY NO.	MA	N
18	18 00010016	1.0000	CONTACTOR, 30A	SEE ASSY NO.	MA	N

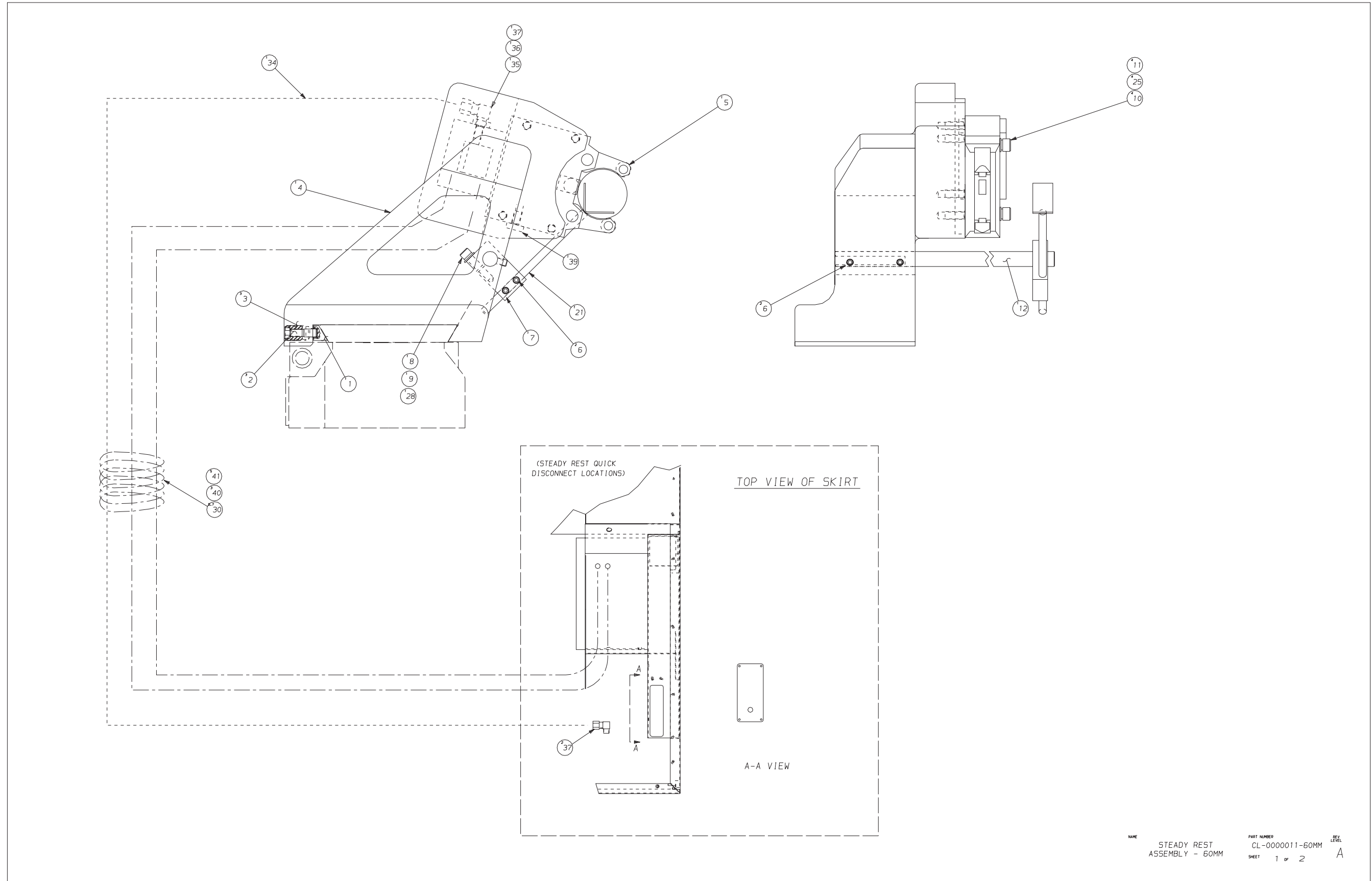
NOT SHOWN

10 (USE 2PWS, 7DR)
LOCATE ON TOP OF LABEL INSIDE LEFT
POWER CASE DOOR

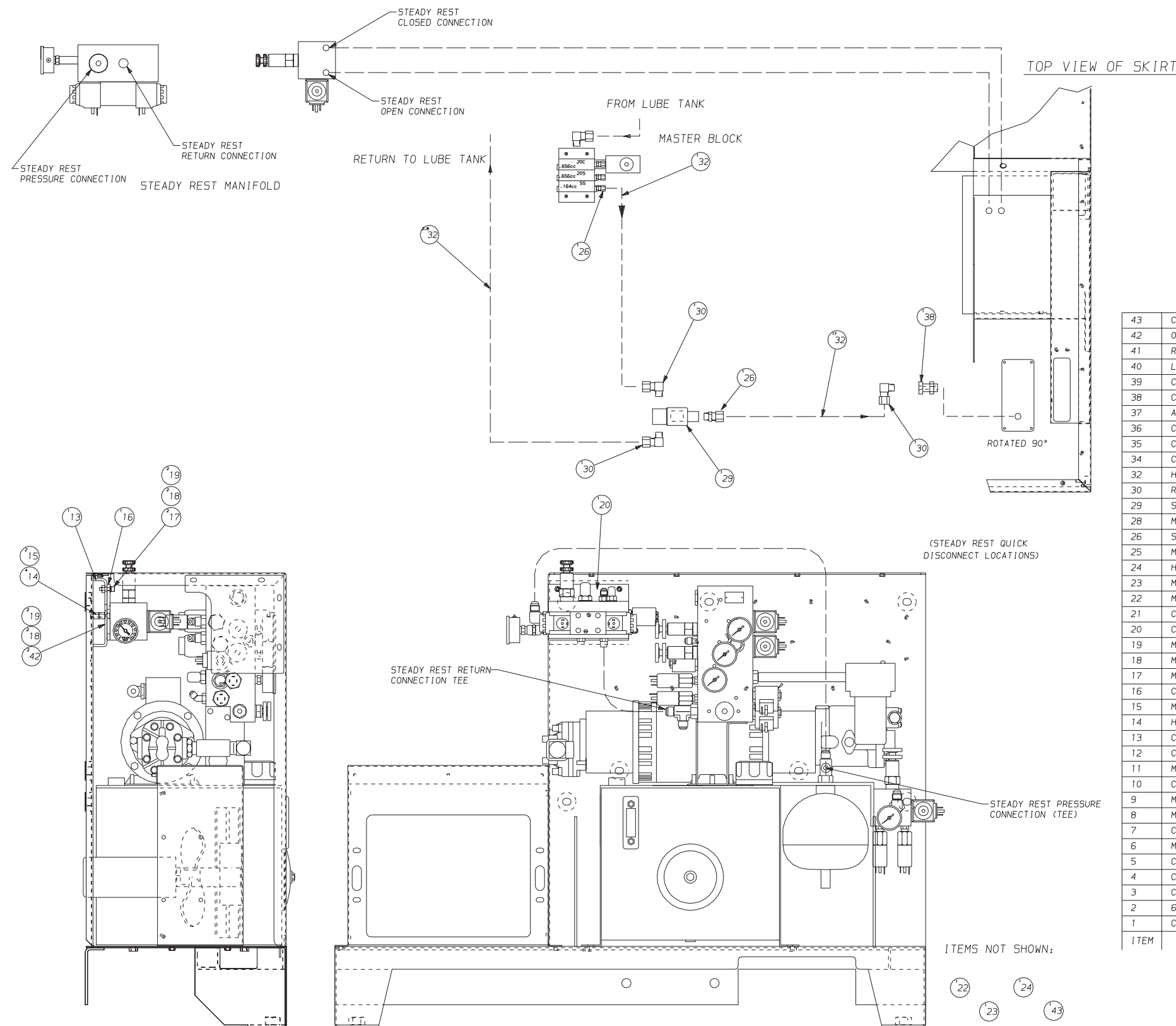
11 12 13 14 15 16 17 18

OPTION PANEL, LIVE TOOLING
CL -0003279LTCE

Steady Rest Assembly, 60 mm



NAME STEADY REST ASSEMBLY - 60MM
 PART NUMBER CL-000011-60MM
 SHEET 1 of 2
 REV LEVEL A



43	CL-0010366-105R	1	TAG, HYDRAULIC CONTROL VA
42	0100610	2	1/4-20 x 5/8 SHCS
41	RH-0009623	5	CLAMP, CABLE
40	LC-0011938-02	3	STANDOFF
39	CS-0001914-04	1	PLUG-1/8-28 BSPT
38	CN-0007703	1	CONN. BULKHEAD 1/8NPT
37	AH-0011259-01	3	ELBOW, 1/8 NPT
36	CL-0011259-12	1	ADAPTER, M10X1-1/8 NPT
35	CL-0002840-04	1	SEAL, COPPER
34	CL-0007007-04	1	TUBING, 5/32 - 85 L
32	HG-0007007-02	20.8	TUBING, 1/4 OD
30	RH-0011622-01	8.7	SLEEVE, COIL PLASTIC
29	SG-0003048-CL-T	1	VALVE, 3-WAY #21386-ITON
28	MW-0193810	1	WASHER, LOCK M8
26	SG-0007702-A2	2	MALE CONN 1/4OD x 1/8NPT
25	MW-0104010	4	M10 WASHER, FLAT
24	HGA-0010019-01	1	BLOCK, CONTACT
23	MC-0009971-CS	1	LENS, SWITCH
22	MC-0010224-F5	1	SWITCH, OPERATOR
21	CL-0003990-6A	1	SUPPORT ASSEMBLY
20	CL-0000133-SRML	1	HYDRAULIC UNIT, STEADY RE
19	MW-0183610	4	M6 WASHER, LOCK
18	MW-0103610	4	M6 WASHER, FLAT
17	MS-0103619	2	M6 SCREW, SHCS x 25mm
16	CL-0001904-M	1	PLATE, MANIFOLD
15	MS-0103621	2	M6 SCREW, SHCS x 35mm
14	HG-0011159	4	SPACER, DOG
13	CL-0004990-94	1	BRACKET, MANIFOLD
12	CL-0011603	1	ROD
11	MW-0184010	4	M10 WASHER, LOCK
10	CL-0010794	4	SCREW, M10 STEADY REST
9	MW-0103810	1	M8 WASHER, FLAT
8	MS-0103821	1	M8-1.25x35mm SHCS
7	CL-0011320	1	BLOCK, POSITIONING
6	MS-0573815	4	M8 SCREW, SSFP x 10mm
5	CL-0000011-01	1	STEADY REST ROHM 60MM
4	CL-0000666-01	1	FRAME, STEADY REST-60
3	CL-0009094-SRLK	3	PLUG, GIB LOCKING
2	6-0009095	3	LOCKING SCREW
1	CL-0000011-G1	1	GIB, STEADY REST
ITEM	PART NUMBER	QTY	DESCRIPTION

ITEMS NOT SHOWN:

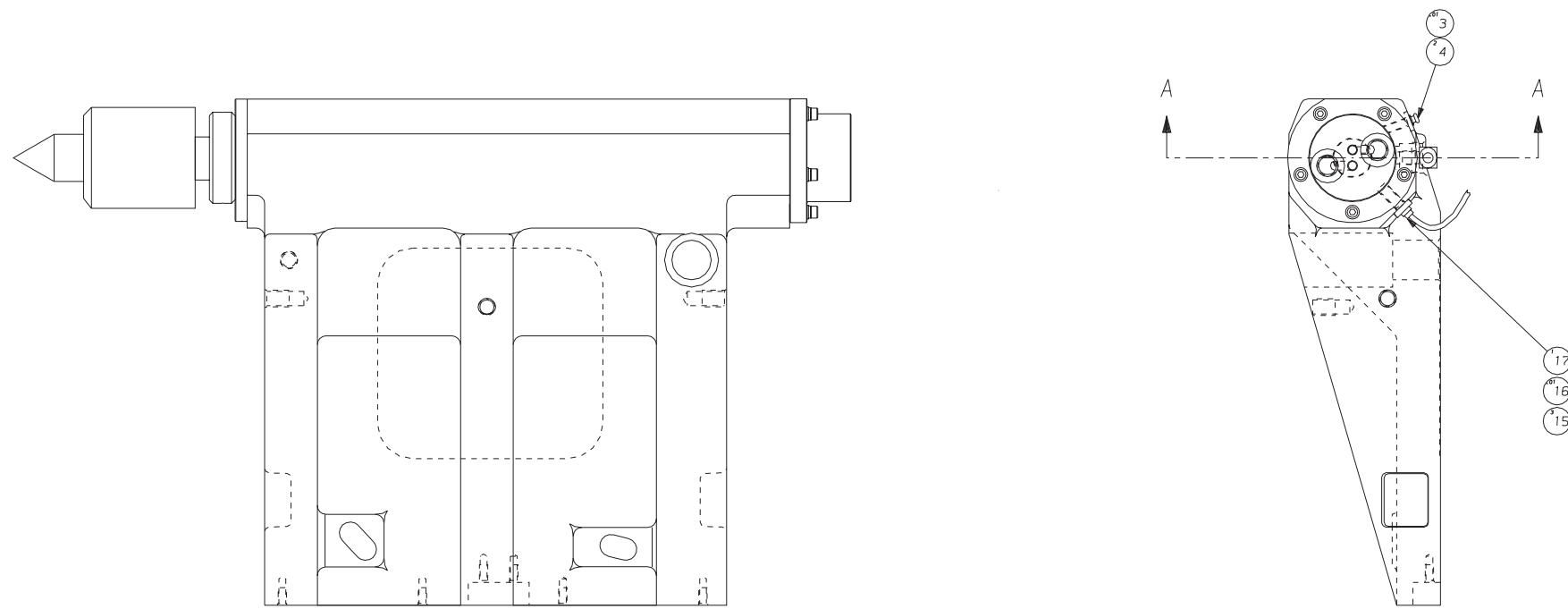
22 23 24 43

NAME
STEADY REST
ASSEMBLY- 60. MM

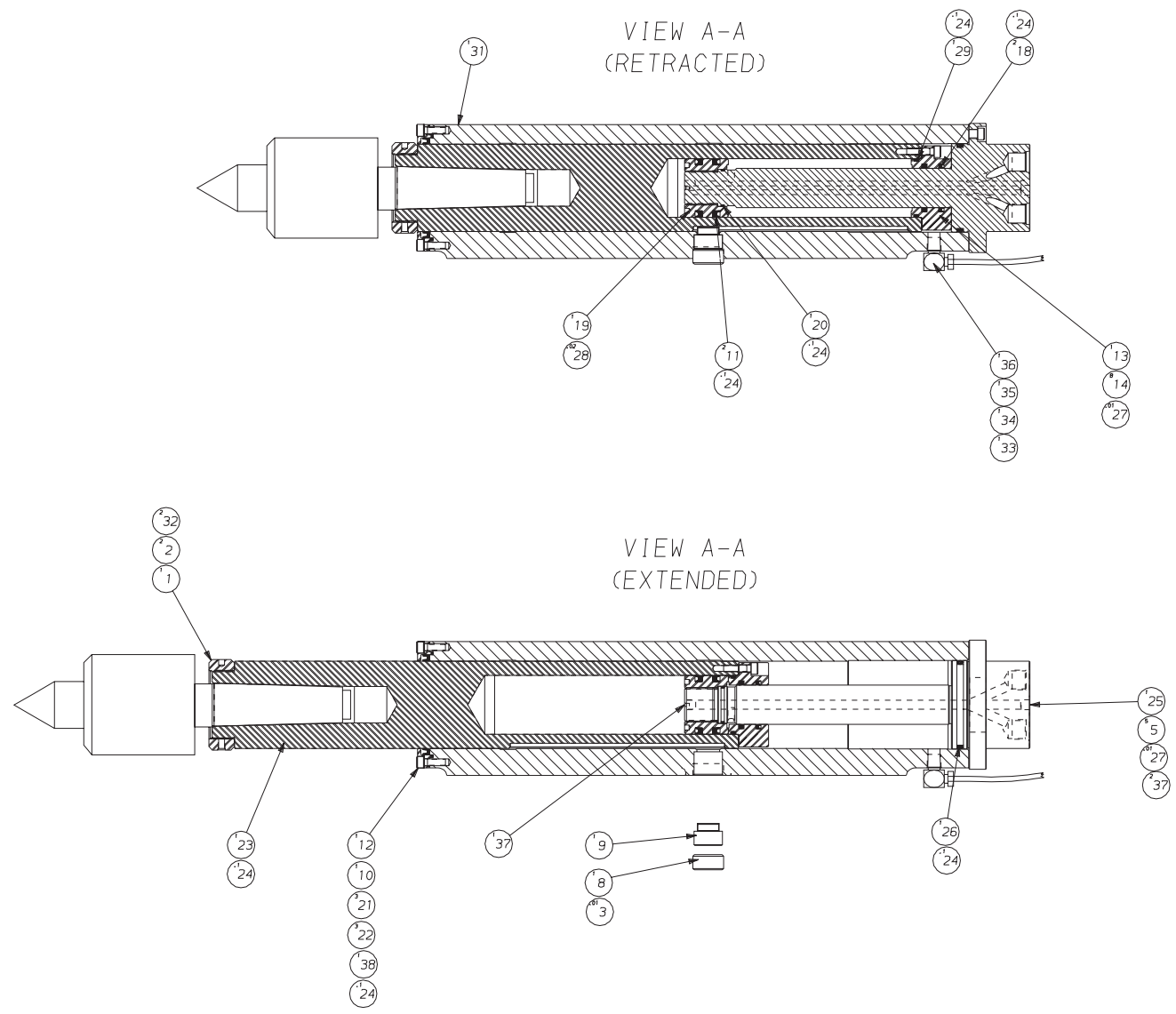
PART NUMBER
CL-0000011-60MM
SHEET 2 of 2

REV
LEVEL
B

Tailstock Assembly



NAME ASSEMBLY, TAILSTOCK PART NUMBER CL-0000003-LB SHEET 1 OF 2 REV LEVEL B



39	CL 001021551	3	COVER, RISER BLOCK
38	OR-0004648	1	O-RING 2.864 ID, 1/16 CS
37	S-0010700-07	3	PLUG, LEE #281
36	HG-0011259	1	ADAPTER - BIJUR #15320-2
35	CL-0012034-06	1	INSERT, TUBE - BIJUR #192
34	HG-0011060	1	SLEEVE - BIJUR #B-8272
33	HG-0011060-01	1	BUSHING - BIJUR #15326
32	37-0000483	2	PLUG, BRASS
31	CL-0000401-LB	1	TAILSTOCK BODY, CL-LB
29	OR-0002427	1	O-RING
28	NC-0010884	.02	LOCTITE #242
27	NC-0010884-01	.02	LOCTITE 222
26	OR-0003640	1	O-RING 2.512 OD
25	CL-0011102-LB	1	SHAFT, PISTON
24	CS-0010994	.7	GREASE
23	CL-0000405-LB	1	SPINDLE, TAILSTOCK CL-LB
22	MW-0103510	3	M5 WASHER, FLAT
21	MS-0103517	3	M5 SCREW, SHCS x 16mm
20	OR-0001517	1	O-RING .926 ID, 1/16 CS
19	CL-0009261-LB	1	PISTON, TAILSTOCK
18	CL-0009923-LB2	2	SEAL3, POLY PAK
17	CL-0010224-01	1	PROX. SENSOR N.C.
16	HG-0010884	.01	SILICONE SEALER
15	CL-0009938	3	INSULATING SLEEVE
14	MS-0103518	8	M5 SCREW, SHCS x 20mm
13	CL-0004068-LB	1	CAP, SPINDLE
12	CL-0008059	1	CAP, SEAL
11	CL-0009923-LB1	2	SEAL2, POLY PAK
10	CL-0009923-LB	1	SEAL1
9	LH-0011006	1	SPINDLE KEY
8	0102207	1	SCREW, SET 7/8-14
5	MS-0103619	5	M6 SCREW, SHCS x 25mm
4	VL-0010327	2	FITTING, LUB. (6 mm)
3	LT-0010884-5	.02	SEALANT, PIPE
2	MS-0553512	2	M5 SCREW, SSCP x 5mm
1	CL-0004068-RLB	1	NUT, RELEASE
ITEM	PART NUMBER	QTY	DESCRIPTION

39

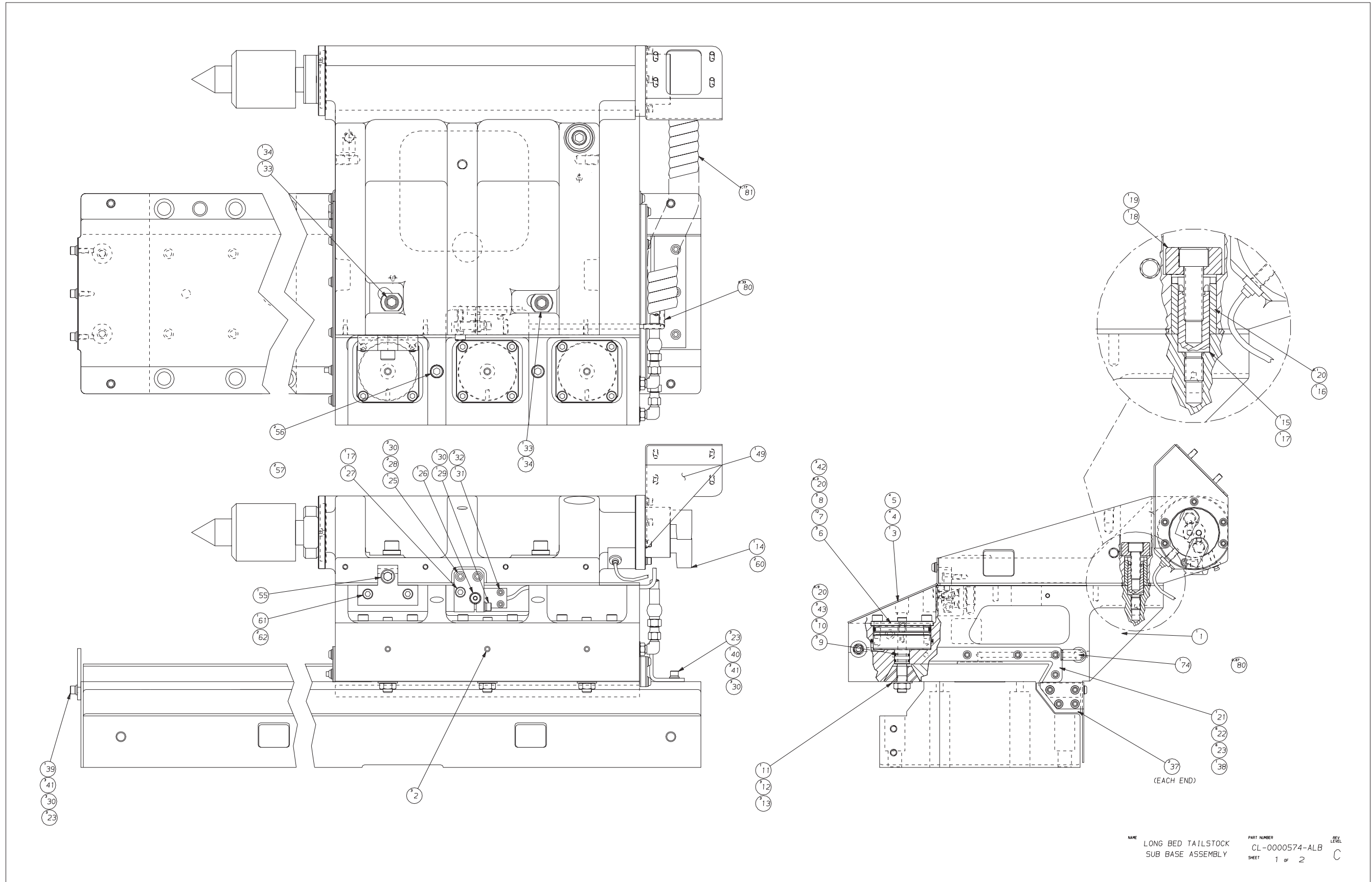
NAME
ASSEMBLY, TAILSTOCK

PART NUMBER
CL-0000003-LB

SHEET
2 OF 2

REV
C

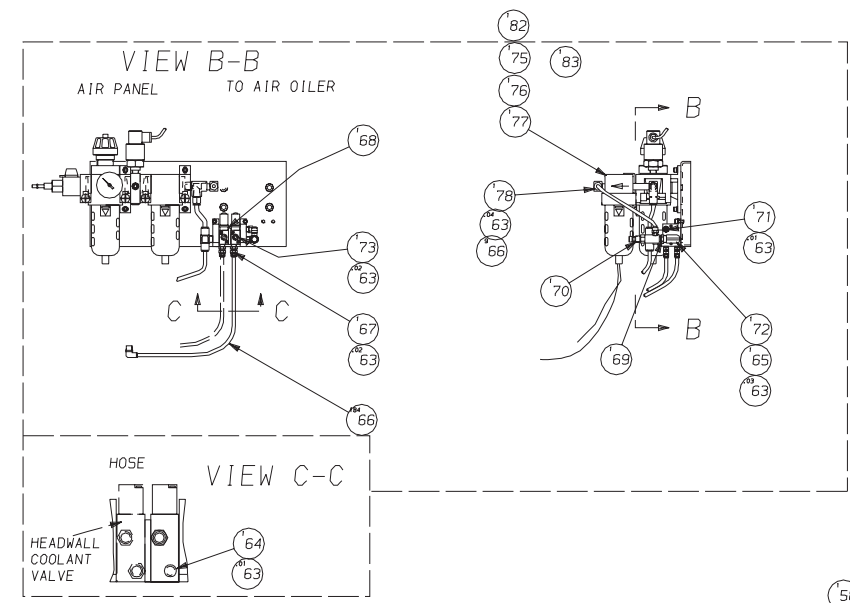
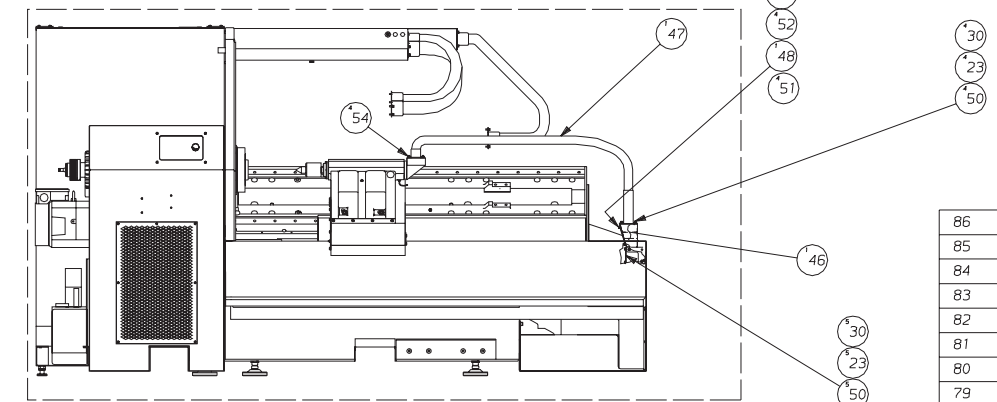
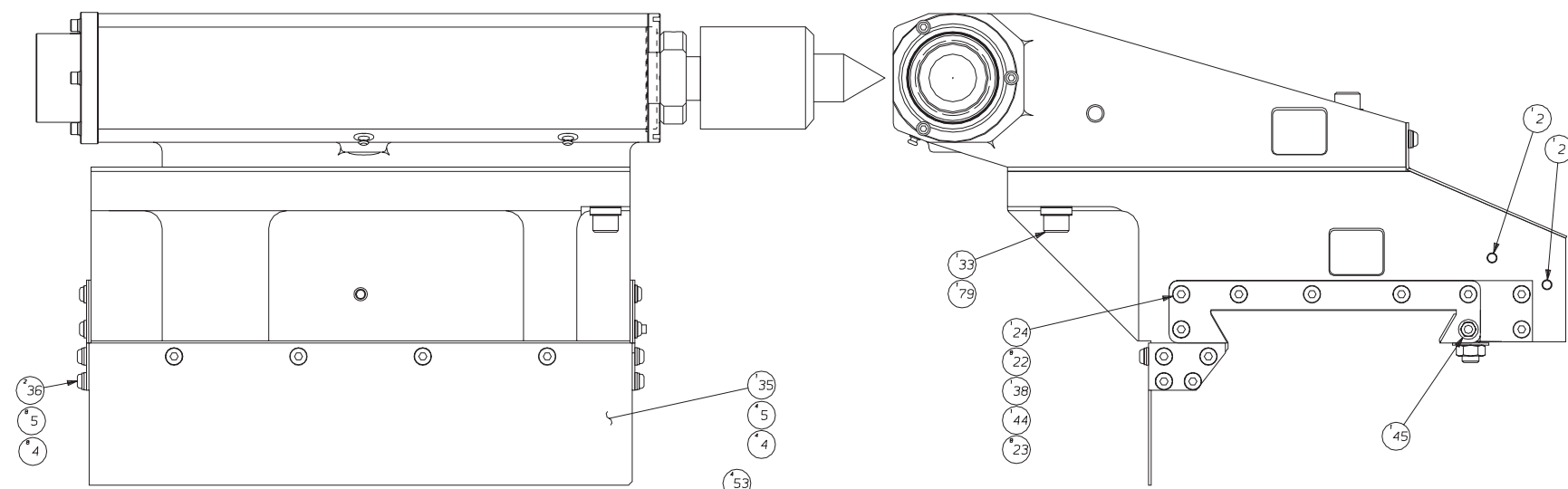
Tailstock Sub-Base Assembly



NAME LONG BED TAILSTOCK
SUB BASE ASSEMBLY

PART NUMBER CL-0000574-ALB
SHEET 1 OF 2

REV LEVEL C



ITEM	PART NUMBER	QTY	DESCRIPTION
86	CLA000304809	1	VALVE, SOLENOID
85	CL 0010559RT	1	BED ASSEMBLY-TAILSTOCK
84	CL 0000262TALB	1	BLOCK, RISER-TAILSTOCK
83	S-0001914	1	PLUGE, 1/4 NPT
82	CL-0008384-03	1	ADAPTER, 1/4 NPT M-F-M
81	AH-0011623	1.17	SLEEVE, PLASTIC COIL
80	CL-0009938	1	INSULATING SLEEVE
79	MS-0104224	1	M12 SCREW, SHCS x 50mm
78	SG-0007702-A9	1	ELBOW, SW 1/4OD TO 1/4 NPT
77	A0-0010786	1	ELBOW, STREET 1/4 NPT
76	CT-0011092	1	NIPPLE, 1/4NPT X 2
75	CNB-0010779-LA	1	AIR, OILER
74	FR-0007702-02	1	ELBOW, 1/4NPT X 1/40.D.
73	CL-0003048-9	1	VALVE, AIR
72	A0-0010786	1	ELBOW, 1/4 NPT
71	RF-0011335-1	1	MUFFLER
70	CS-0010779-04	1	REGULATOR ADI #53-01-02 1
69	RF-0010786-01	1	FITTING, STRAIGHT PARKER
68	CL-0045006	1	ISOLATOR
67	268-0007702-04	1	FITTING
66	AH-0007007-NF	193	TUBING, 1/4"
65	AUA-0010785	1	ADAPTER
64	S-0001467	1	PLUG, PIPE
63	LT-0010884-S	.13	SEALANT, PIPE
62	MS-0103818	2	M8 SCREW, SKHD CAP x 20mm
61	CL-0011320-LB	1	BLOCK, TAILSTOCK ADJUSTME
60	CD-0004899	2	DOWEL PIN 1/4"
59	CL-0010366-LB	1	TAG
58	CL-0010366-LB1	1	TAG

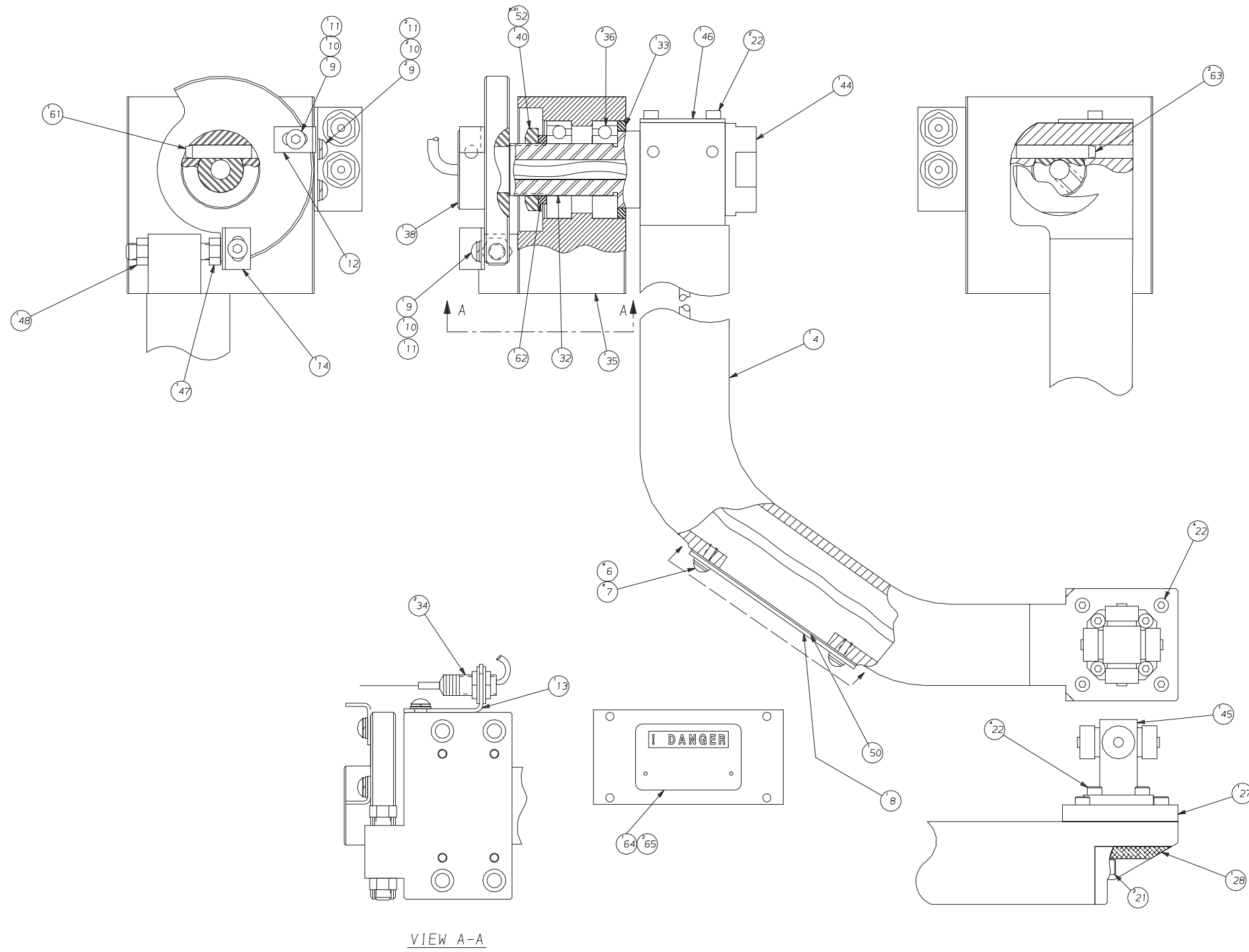
57	0551308	2	1/2-20 SOC SET SCREW x 0.
56	MS-0104029	2	M10 SCREW, SKHD x 75mm
55	MS-0104220	1	M12 SCREW, SKHD x 30mm
54	MN-0283610	4	M6 NUT, FLANGE
53	MW-0103510	4	M5 WASHER, FLAT
52	MW-0193510	4	M5 WASHER, LOCK
51	MS-0103517	4	M5 SCREW, SHCS x 16mm
50	MS-0103617	9	M6 SCREW, SHCS x 16mm
49	CL-0005990-01	1	MOUNT, CABLE CARRIER
48	SG-0010115-90	1	COVER, END
47	CLA-0011623-TLB	1	CABLE CARRIER, TAILSTOCK
46	CL-0003990-76LB	1	DUCT WELD ASSY
45	MN-0283610	1	M6 NUT, FLANGE
44	CL-0003990-01AB	1	SUPPORT, FRONT
43	OR-0004650	3	O-RING
42	VL-0012042-01	3	PLUG, 1/8" O-RING BOSS
41	MS-0103618	6	M6 SCREW, SHCS x 20mm
40	CL-0009424-01	1	STOP, TAILSTOCK AFT
39	CL-0009424	1	STOP, TAILSTOCK FRONT
38	CL-0003990-01	2	GUARD, WIPER
37	CLA-0010116-30	2	SHIELD, WIPER
36	CL-0002990-36	2	WIPER CLAMP, TAILSTOCK
35	CL-0002990-35LB	1	SHIELD, COVER
34	MS-0104226	2	M12 SCREW, SHCS x 60mm
33	CS-0003230-01	3	WASHER, TAILSTOCK BASE
32	MS-0103416	2	M4 SCREW, SHCS x 12mm
31	CL-0010224-03	1	SWITCH, PROXIMITY
30	MW-0193610	18	M6 WASHER, LOCK
29	MS-0103619	1	M6 SCREW, SHCS x 25mm
28	MS-0103616	2	M6 SCREW, SHCS x 12mm
27	MS-0103821	1	M8 SCREW, SHCS x 35mm
26	CL-0011108	1	BUTTON, ACTUATOR
25	CL-0011292	1	ACTUATOR, SWITCH
24	HCB-0008050	1	WIPER
23	MW-0103610	29	M6 WASHER, FLAT
22	MS-0303617	14	M6 SCREW, BH55 x 16mm
21	NC-0008050	1	WIPER, CARRIAGE
20	CS-0010994	1.3	GREASE
19	MS-0104221	1	M12 SCREW, SHCS x 35mm
18	CS-0003230-02	1	WASHER, CLAMP
17	NC-0010884	2	LOCTITE ADHESIVE 242
16	LC-0011304	1	SLEEVE, ECCENTRIC
15	CL-0011052	1	PIVOT
14	CL-0009001-LB	1	SHIM, TAILSTOCK
13	CL-0000260	3	M12x1.75 NUT, LOCKING
12	MW-0104210	3	M12 WASHER, FLAT
11	CL-0009623-LB	1	CLAMP, TAILSTOCK
10	OR-0001210	6	O-RING
9	CL-0009261-LB1	3	PISTON, LOCK
8	OR-0004246	3	O-RING
7	MS-0103816	12	M8 SCREW, SHCS x 12mm
6	CL-0000275-LB	3	CAP, LOCK
5	MW-0263610	16	M6 WASHER, STAR
4	MS-0303615	16	M6 SCREW, BH55 x 10mm
3	CL-0010115-10LB	1	COVER, TAILSTOCK
2	S-0010700-07	5	PLUG, LEE
1	CL-0000574-LB	1	SUBBASE, TAILSTOCK (CL-LB)

84 85 86

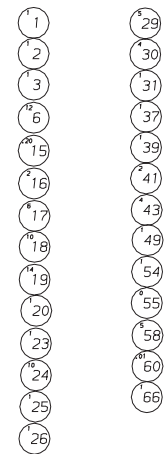
58 59

NAME LONG BED TAILSTOCK SUB BASE ASSEMBLY
 PART NUMBER CL-0000574-ALB
 SHEET 2 OF 2
 LEVEL D

Tool Touch Probe Assembly



NAME TOOL TOUCH OFF ASSEMBLY PART NUMBER CLA-0002536 REV LEVEL B
SHEET 1 of 2



66	CL-0009001	1	SHIM (0.299 THICK)
65	R-0008044	2	PIN, ESCUTCHEON
ITEM	PART NUMBER	QTY	DESCRIPTION

64	CLB-0010302-04	1	TAG, WARNING-FINGER SHEAR
63	CD-0004634	2	PIN DOWEL
62	CS-0007876-03	1	WASHER, BEARING
61	5-0002024	1	PIN, DOWEL
60	GE-0010884	0	SEALER
58	RF-0011971	5	BAG-MAIL
55	CN-0011198-15	0	GASKET, STRAIGHT
54	CS-0010116-53	1	GASKET, CHIP & COOLANT SHI
52	NC-0010884	0	LOCTITE 242
50	CLA-0010116-17	1	GASKET
49	CS-0011198-04	1	SEAL, V TYPE
48	MN-0113810	1	NUT, HEX .934 REG. M8 -1.2
47	CS-0000580-06	1	BOLT, STOP
46	CSA-0011483	1	STOP
45	CS-0010224-03	1	PROBE
44	CS-0000340	1	CAP, END
43	MS-0103630	4	SCREW, SOC HD M6-1.0 X 80M
41	CS-0009207-01	2	GRIP, CORD
40	CS-0008325-01	1	NUT
39	LOA-0002416	1	INSTALL TOOL TOUCH OPTION
38	CSA-0011483-01	1	MOUNT, STOP
37	LO-0002486	1	INSTR., TOOL PROBE SET UP
36	CS-0000265-04	2	BEARING
35	CSA-0011931-06	1	MOUNT, BEARING
34	CL-0010224-05	2	SWITCH, LIMIT
33	CS-0011198-05	1	SEAL
32	CSA-0006581	1	SHAFT, ROTATE
31	CSA-0011931-A	1	MOUNT, TOUCH OFF ARM
30	MS-0104019	4	SCREW, SOC HD M10-1.5 X 25
29	AD-0008104	5	TIE, PLASTIC
28	CS-0010115-73	1	COVER
27	CS-0011081-01	1	MOUNT, SWITCH
26	CSA-0000221-P	1	GUARD, PROBE
25	CS-0011931-07	1	MOUNT, SEAL
24	MS-0103415	10	SCREW, BT. HD M4-0.7 X 10M
23	LO-0002479	1	INSTRUCTIONS, OPTION INSTA
22	MS-0103414	10	M4-0.7 SCREW, SOC. HD X 8M
21	MS-0103416	2	M4-0.7 SCREW, SOC. HD X 12
20	LO-0002480	1	LAYOUT, OPTION WIRE LABELS
19	F3-0009977-02	14	LABEL
18	MW-0103410	10	WASHER, FLAT M4 STEEL
17	MS-0303416	6	SCREW, BT HD M4-.7 X 12MM
16	1B2-0002874-BU	2	WIRE
15	NC-0010473-06	0	TUBING, HEAT SHRINKABLE
14	CSB-0002990-03	1	PLATE, TRIP
13	CS-0001990-97	1	BRACKET, SWITCH MOUNT
12	CS-0002990-05	1	PLATE, TRIP
11	MW-0183510	4	WASHER, LOCK M5
10	MW-0103510	4	WASHER, FLAT M5
9	MS-0303515	4	M5 SCREW, BT HD X 10MM
8	CLA-0010115-38	1	COVER
7	MS-0303415	4	M4X.7 SCREW, BT. HD X 10MM
6	MW-0183410	16	WASHER, LOCK M4
4	CLA-0012051	1	ARM, TOOL TOUCH OFF
3	CL-0010115-77	1	COVER, TOOL TOUCH OFF
2	CS-0003990-78	1	SHIELD, CHIP AND COOLANT
1	CL-0010509	1	CATCH, SAFETY
ITEM	PART NUMBER	QTY	DESCRIPTION

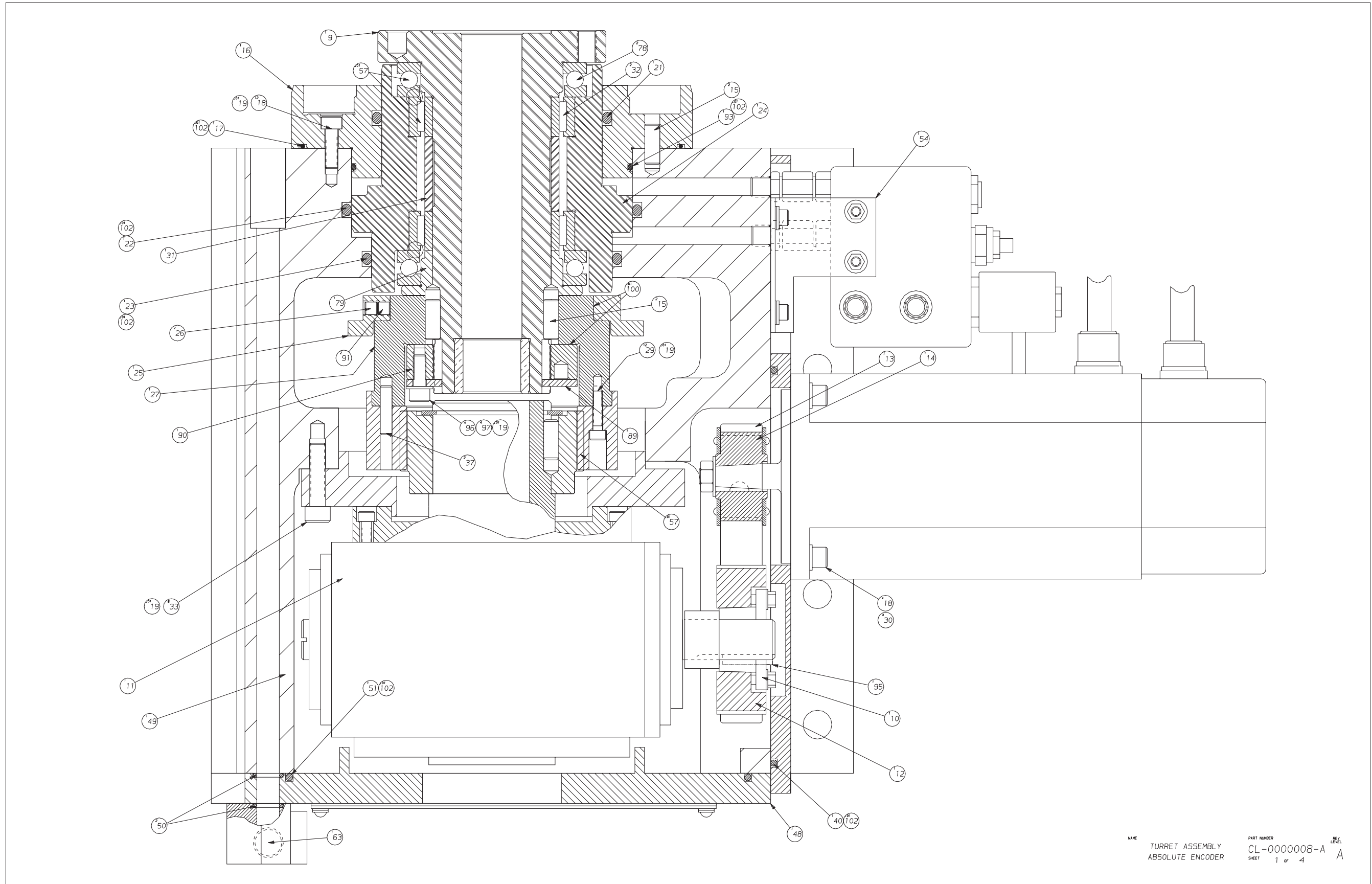
NAME
TOOL TOUCH OFF ASSEMBLY

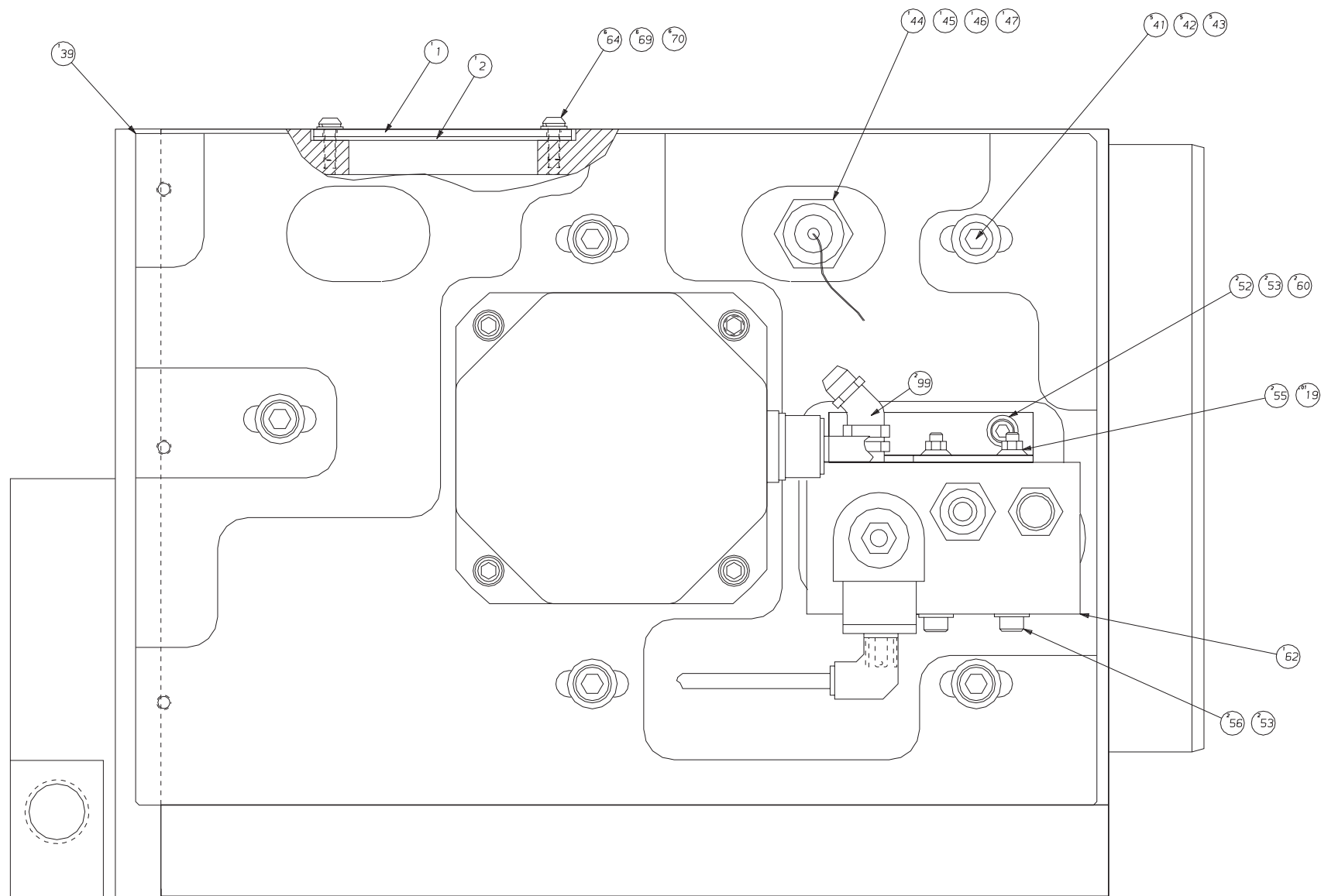
PART NUMBER
CLA-0002536

REV
LEVEL
D

SHEET 2 of 2

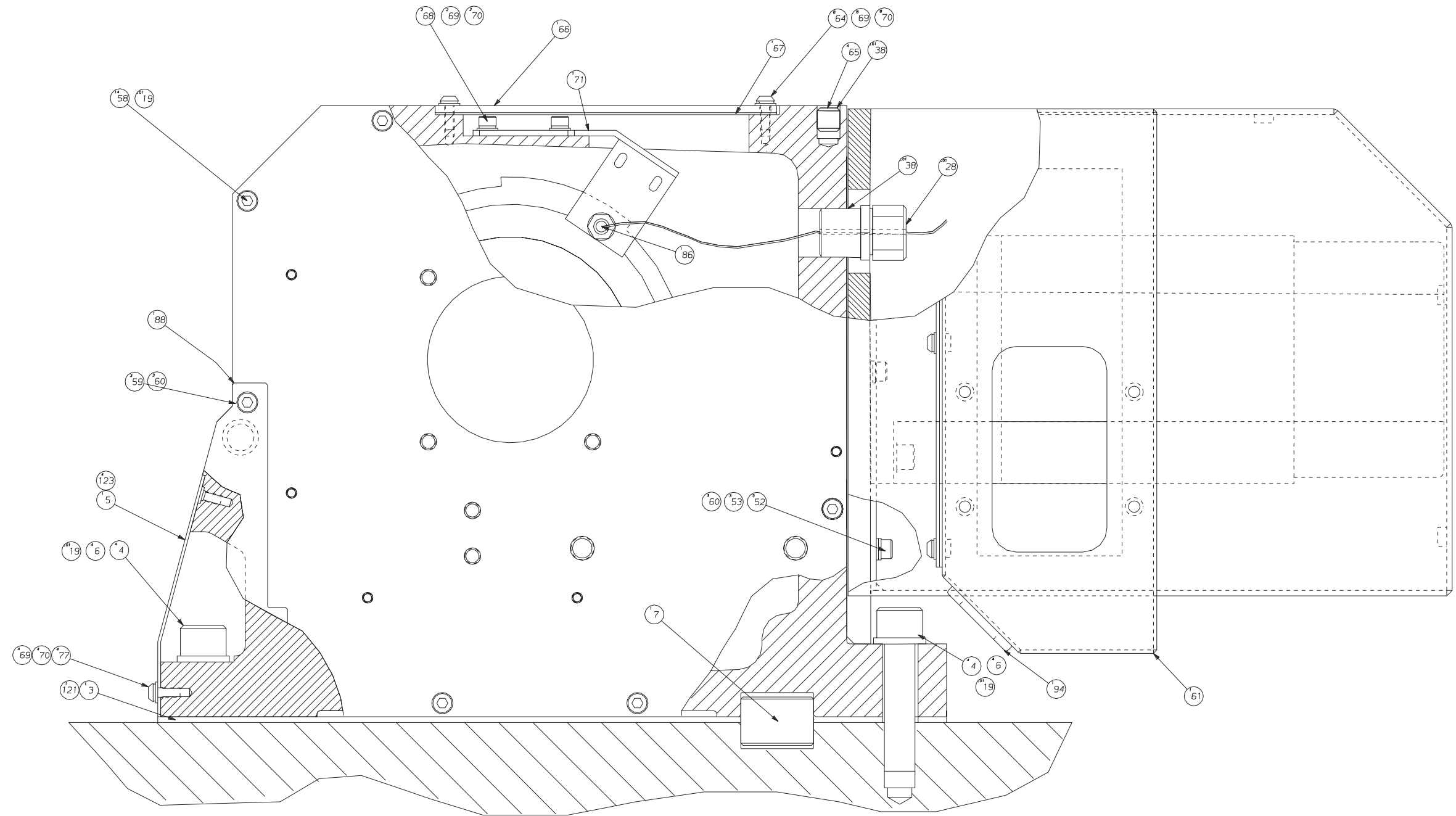
Turret Assembly



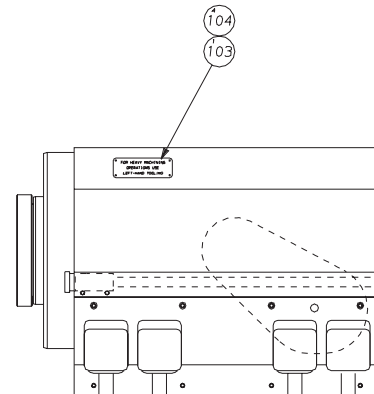
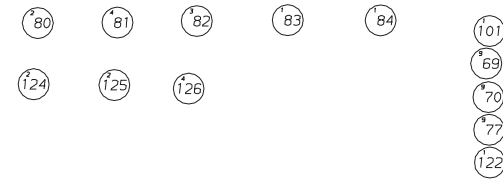


NAME TURRET ASSEMBLY ABSOLUTE ENCODER
PART NUMBER CL-000008-A
SHEET 2 of 4
REV LEVEL A

Turret Assembly



NAME TURRET ASSEMBLY ABSOLUTE ENCODER PART NUMBER CL-0000008-A REV LEVEL A SHEET 3 of 4



130	CL-0010116-12	1	GASKET, COVER
129	CL-0010115-23	1	COVER, PLATE
128	CL-0010116-26	1	GASKET, LT MTR COVER
127	CL-0010115-45	1	COVER, TURRET REAR
126	CC-0006966	4	CLAMP, HOSE
125	VL-0007703-09	2	ELBOW, 90°
124	KH-0008384	2	CONNECTOR, HOSE
123	MS-0313515	4	FLAT HD SOCKET M5
122	RF-0011971	1	BAG MAIL
121	CLA-0009002-05	1	SHIM PLATE
104	R-0008044	4	PIN, ESCUTCHEON
103	CLA-0010366-14	1	TAG, TURRET (LEFT-HAND TO
102	RF-0010994	5.9999	GREASE, SILICON
101	CL-0010115-17	1	COVER ASSEMBLY
100	VS-0010440	.01	ANTI-SEIZE
99	AD-0010787-06	2	FITTING
97	MW-0103810 H	4	WASHER, FLAT M8 HARDENED
96	MS-0103818	4	SCREW, SOC. HD. CAP, M8-1
95	QC-0007534	1	KEY
94	CL-0009532-01	1	GROMMET
93	OR-0108112	1	O-RING
91	MS-0483815	2	SCREW, BRASS TIP SET, M8-
90	CL-0009050	1	NUT, LOCK
89	CL-0009030	1	LOCKWASHER
88	CLA-0009467	1	COOLANT BLOCK
86	CL-0010224-02	1	SWITCH
84	L0-0002415	1	LAYOUT, CABLE MARKERS
83	L0-0002413	1	LAYOUT, CABLES
82	NC-0010473-06	3	HEAT SHRINK TUBING
81	F3-0009977	4	CODE MARKERS
80	CK-0009188-20	2	FERRULES, 20 AWG
79	CL-0011137-03	1	RETAINER, BEARING
78	CL-0004140 T	2	BEARING, THRUST
77	MS-0303515	13	SCREW, BUT. HD. M5-.8X10
71	CL-0001976-01	1	BRACKET, TURRET UP/DOWN S
70	MW-0103510	29	WASHER, FLAT M5-.8
69	MW-0193510	29	WASHER, LOCK, M5-.8
68	MS-0103516	2	SCREW, SOC. HD. CAP. M5-.8
67	CL-0010116-09	1	GASKET, HOME SWITCH COVER
66	CL-0010115-11	1	COVER, HOME SWITCH ACCESS
65	MS-0554217	4	PLUG
64	MS-0303517	14	SCREW, BUT. HD. M5-.8 X 1
63	CL-0012042-15	1	PLUG, PIPE 3/4 BSPT
ITEM	PART NUMBER	QTY	DESCRIPTION



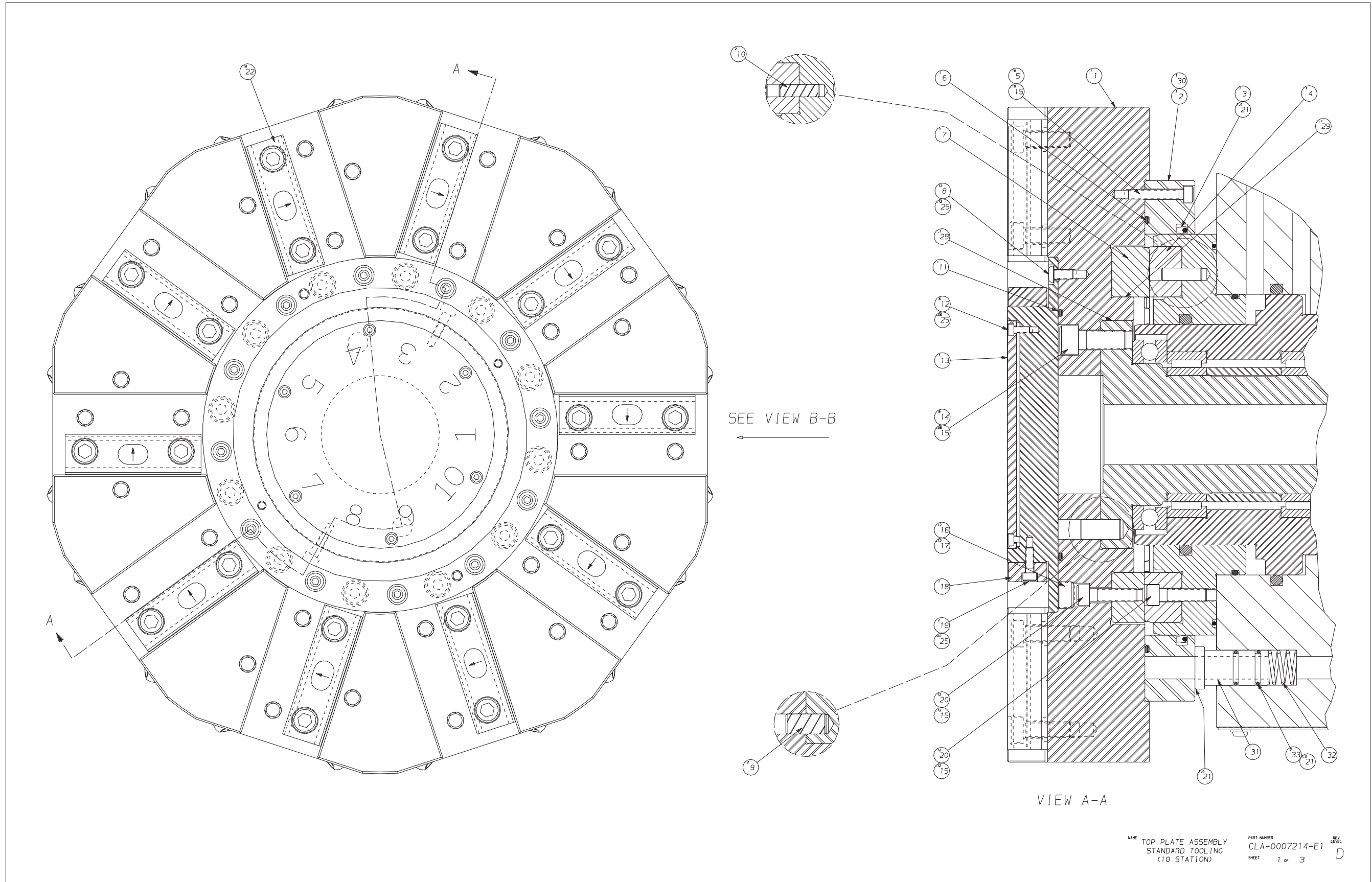
62	CL-0003048	1	VALVE, TURRET HYDRAULIC
61	CL-0010115-20	1	COVER, TURRET ASSEMBLY
60	MW-0193610	8	WASHER, LOCK M6-1.0
59	MS-0103624	3	SCREW, SOC. HD. CAP. M6-1
58	MS-0103618	14	SCREW, SOC. HD. CAP. M6-1
57	CS-0010994	.02	MOBILE GREASE
56	MS-0103630	2	SCREW, SOC. HD. CAP. M6-1
55	MN-0283610	2	NUT, FLANGE M6-1.0
54	CL-0001976	1	BRACKET, HYDRAULIC VALVE
53	MW-0103610	7	WASHER, FLAT M6-1.0
52	MS-0103616	5	SCREW, SOC. HD. CAP. M6-1
51	OR-0228224	1	O-RING
50	OR-0001210	2	O-RING
49	CLB0007201	1	TURRET, CASTING
48	CLB-0000363-LT	1	MOTOR PLATE, TURRET
47	DB-0009207-9B	1	NUT, CONNECTOR
46	DB-0009207-6A	1	BODY, CONNECTOR
45	DB-0009207-W	1	WASHER, CONNECTOR
44	DB-0009207-9F	1	GROMMET CONNECTOR, 1 HOLE
43	MW-0104010 H	5	WASHER, FLAT
42	MW-0194010	5	WASHER, LOCK
41	MS-0104020	5	SCREW, SOC. HD. CAP, M10-
40	OR-0180176	1	O-RING
39	CL-0001991-02	1	PLATE, MOUNTING (TURRET I
38	LT-0010884-S	.02	PIPE SEALANT
37	NC-0006709	2	PIN, PULLOUT DOWEL
33	MS-0104022	8	SCREW, SOC. HD. CAP, M-10
32	CL-0004140 R	2	BEARING, ROLLER
31	CL-0004057	1	SPACER, BEARING
30	MW-0193810	4	LOCKWASHER, M8-1.25
29	MS-0103619	12	SCREW, SOC. HD. CAP. M6-1
28	GE-0010884	.01	SILICON SEALANT
27	CL-0011492-02	1	HOUSING, INDEX SHAFT
26	MS-0553814	2	SCREW, SOC. SET-CUP M8-1.
25	CL-0004025	1	RING FOR HOME SWITCH
24	CL-0011455	1	PISTON, TURRET
23	OR-0095104	1	O-RING
22	OR-0113120	1	O-RING
21	OR-0008795	1	O-RING
19	NC-0010884	7.9999	GREASE 242
18	MS-0103819	16	SCREW, SOC. HD. CAP, M8-1
17	OR-0147152	1	O-RING
16	CL-0011492	1	HOUSING, PISTON
15	CS-0004630-03	4	DOWEL PIN, PULL OUT
14	CLA-0003177-E	1	PULLEY ASSEMBLY, 36T
13	CL-0003346-12	1	BELT, GT PROFILE
12	CLA-0004053	1	PULLEY, TURRET GEARBOX
11	CLC-0006199-P	1	GEARBOX PINNING ASSEMBLY
10	CL-0011682	1	BUSHING, GEARBOX PULLEY
9	CL-0011264	1	INDEX SHAFT WITH BUSHINGS
7	CL-0004630	1	DOWEL, TURRET PIVOT
6	CL-0002840-02	8	WASHER, HARDENED
5	CLA-0010115-03	1	COVER, HOLD DOWN BOLTS
4	MS-0104628	8	SCREW, SOC. HD. CAP, M16-
3	CLA-0009002	1	SHIM PLATE
2	CL-0010116-08	1	GASKET, BELT ACCESS COVER
1	CL-0010115-12	1	COVER, BELT ACCESS
ITEM	PART NUMBER	QTY	DESCRIPTION

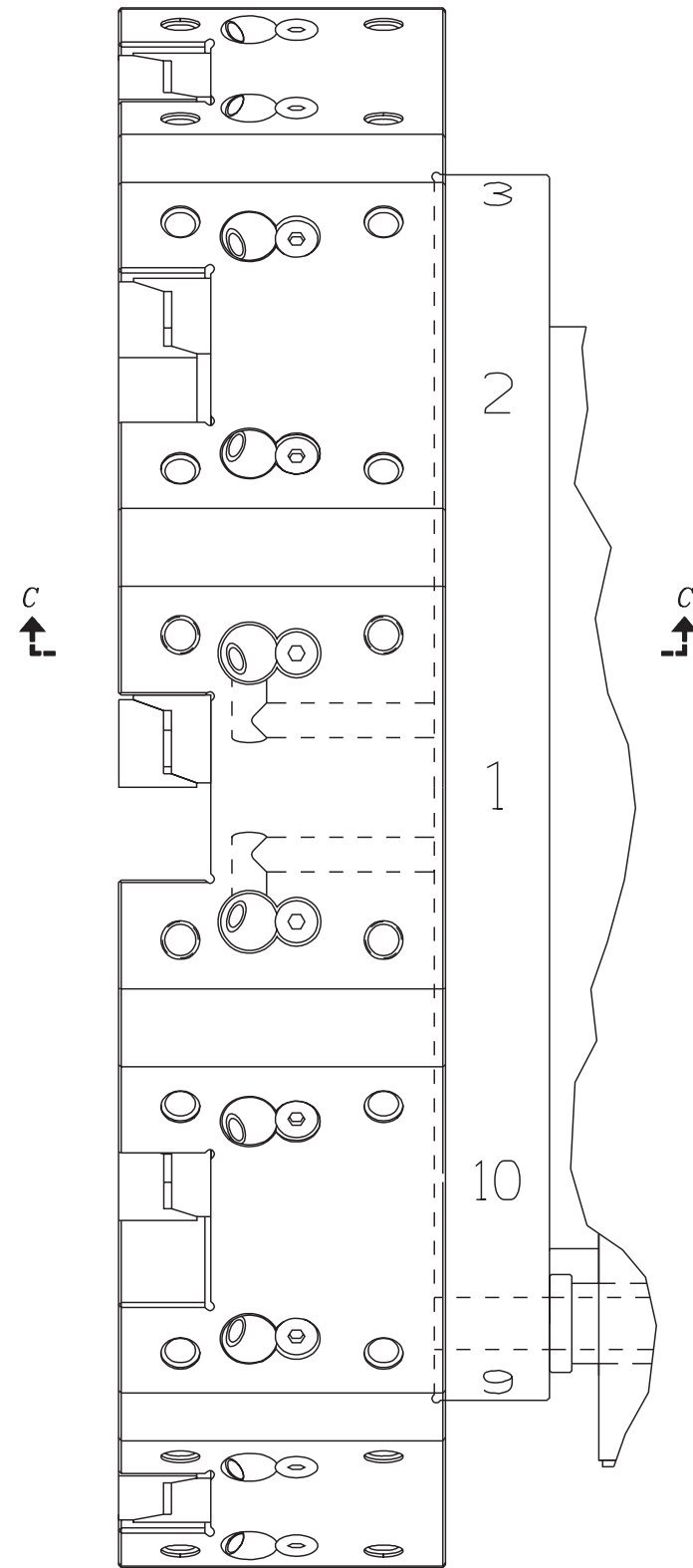
NAME
TURRET ASSEMBLY
ABSOLUTE ENCODER

PART NUMBER
CL-0000008-A
SHEET 4 of 4

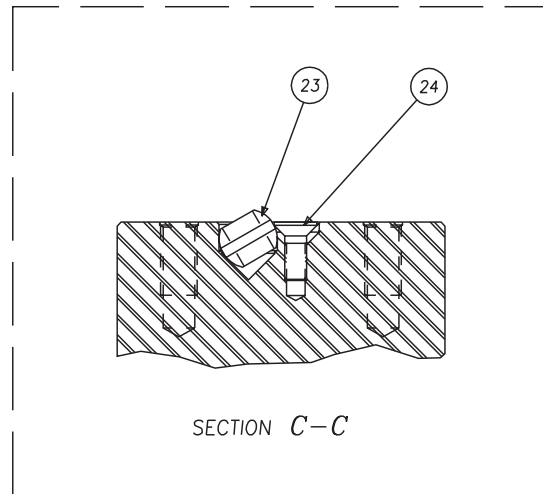
REV
0

Turret Top Plate, 10 Station, English





VIEW B-B

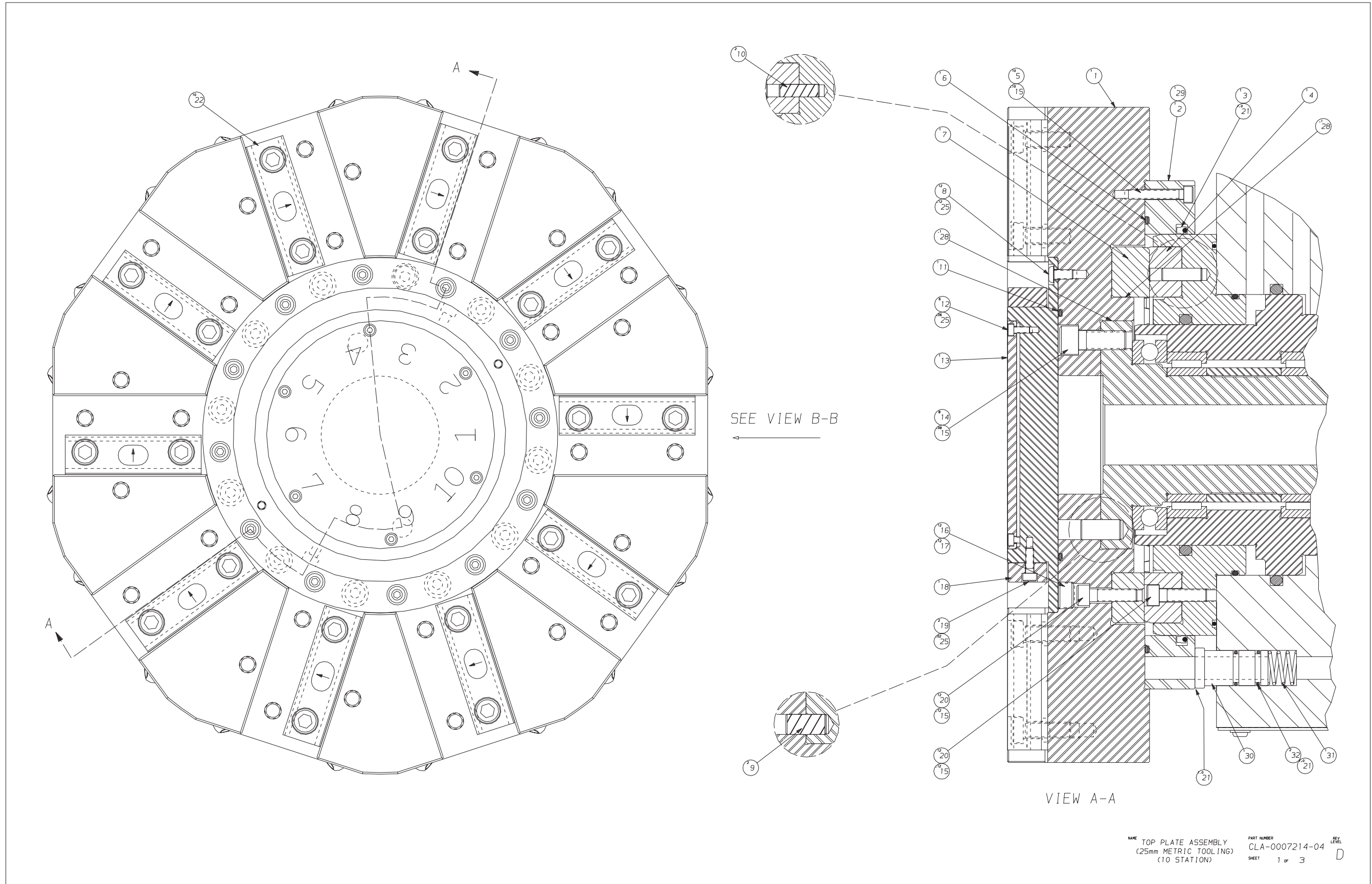


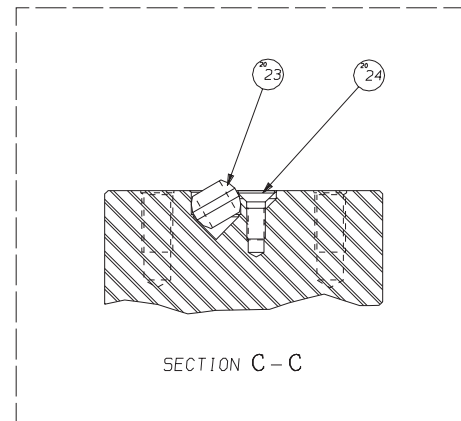
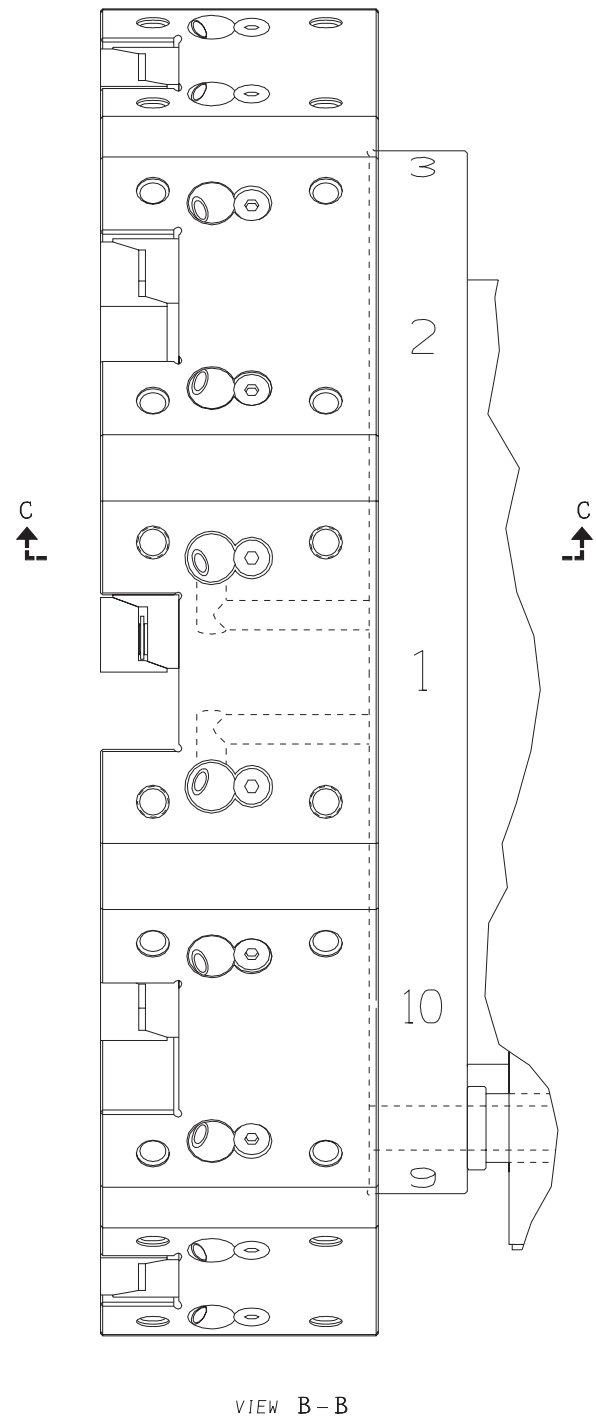
26

27

33	OR-0001114	1	O-RING
32	CL-0009764	1	SPRING
31	CL-0004144	1	BUSHING
30	CD-0004629	1	PIN,DOWEL
29	VS-0010440	0	ANTISEIZE
27	RF-0011971	2	BAG, MAIL
26	CL-0011890-BT	1	BORING BAR CENTERING GAGE
25	NC-0010884-01	0	ADHESIVE, LOCTITE #222
24	MS-0313616	20	M6 SCREW, FLAT HD SOCKET
23	CSA-0006058-01	20	BALL, COOLANT
22	CL-0011944-TC	10	CLAMP, TOOL ASSEMBLY
21	CS-0010994	2	GREASE, M55
20	MS-0103820	24	M8 SCREW, SOCKET HD CAP
19	MS-0103517	2	M5 SCREW, SOCKET HD CAP
18	CL-0010419-01	1	RING, TOOL STOP (STD)
17	LT-0010884-S	0	SEALANT, PIPE
16	CS-0001914	12	PLUG
15	NC-0010884	0	ADHESIVE, LOCTITE #242
14	MS-0104220	8	M12 SCREW, SOCKET HD CAP
13	CL-0010419-10	1	NAME PLATE, 10 STATION
12	MS-0103415	6	M4 SCREW, SOCKET HD CAP
11	CL-0009431	1	O-RING
10	NC-0006709	2	DOWEL PIN, PULL-OUT
9	CL-0006709	2	DOWEL PIN, PULL-OUT
8	MS-0303616	12	M6 SCREW, BUTTON HD
7	CL-0011792-06	1	COUPLING, TOP PLATE
6	OR-0174169	1	O-RING
5	MS-0103621	10	M6 SCREW, SOCKET HD CAP
4	CL-0011792-05	1	COUPLING, HOUSING
3	CL-0009923	1	SEAL, POLY-PACK
2	CLA-0009813-12	1	COOLANT RING, TURRET
1	CLA-0007214-10	1	TOP PLATE, 10 STATION (STD)
ITEM	PART NUMBER	QTY	DESCRIPTION

Turret Top Plate, 10 Station, Metric



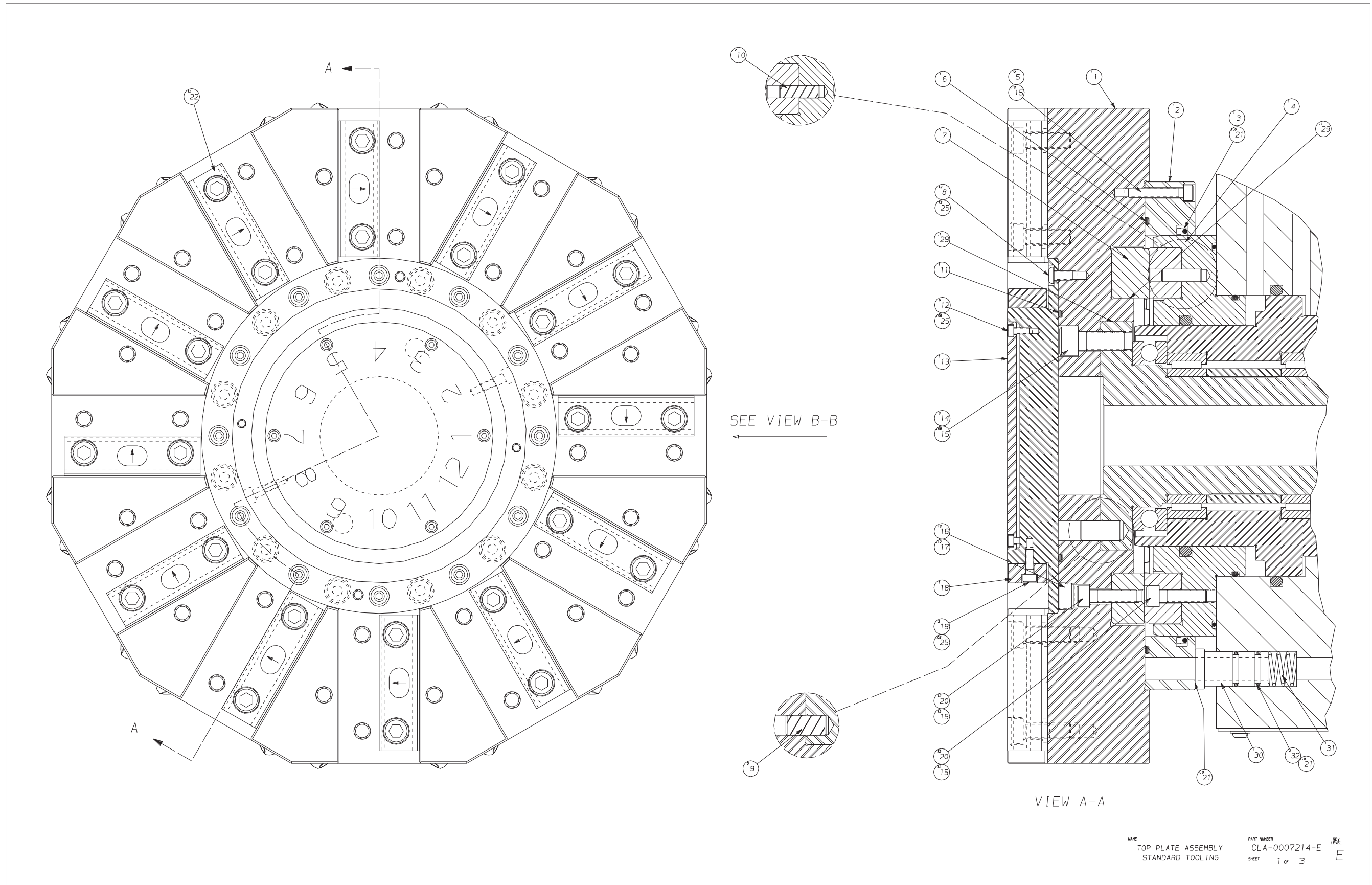


ITEM	PART NUMBER	QTY	DESCRIPTION
28	OR-0001114	2	O-RING
31	CL-0009764	1	SPRING
30	CL-0004144	1	BUSHING
29	CD-0004629	1	PIN, DOWEL
28	VS-0010440	0	ANTISEIZE
27	CL-0011890-BM	1	BORING BAR CENTERING GAGE
26	RF-0011971	2	BAG, MAIL
25	NC-0010884-01	0	ADHESIVE, LOCTITE #222
24	MS-0313616	20	M6 SCREW, FLAT HD SOCKET
23	CSA-0006058-01	20	BALL, COOLANT
22	CL-0011944-MC	10	CLAMP, TOOL ASSEMBLY
21	CS-0010994	2	GREASE, MOBIL 28
20	MS-0103820	24	M8 SCREW, SOCKET HD CAP
19	MS-0103517	2	M5 SCREW, SOCKET HD CAP
18	CL-0010419-02	1	RING, TOOL STOP (METRIC)
17	LT-0010884-5	0	SEALANT, PIPE
16	CS-0001914	12	PLUG
15	NC-0010884	0	ADHESIVE, LOCTITE #242
14	MS-0104220	8	M12 SCREW, SOCKET HD CAP
13	CL-0010419-10	1	NAME PLATE, 10 STATION
12	MS-0103415	6	M4 SCREW, SOCKET HD CAP
11	CL-0009431	1	O-RING
10	NC-0006709	2	DOWEL PIN, PULL-OUT
9	CL-0006709	2	DOWEL PIN, PULL-OUT
8	MS-0303616	12	M6 SCREW, BUTTON HD
7	CL-0011792-06	1	COUPLING, TOP PLATE
6	OR-0174169	1	O-RING
5	MS-0103621	10	M6 SCREW, SOCKET HD CAP
4	CL-0011792-05	1	COUPLING, HOUSING
3	CL-0009923	1	SEAL, POLY-PACK
2	CLA-0009813-12	1	COOLANT RING, TURRET
1	CLA-0007214-03	1	TOP PLATE, 10 STATION (METRIC)

NAME TOP PLATE ASSEMBLY
25mm METRIC TOOLING
(10 STATION)

PART NUMBER CLA-0007214-04
REV LEVEL C
SHEET 2 of 3

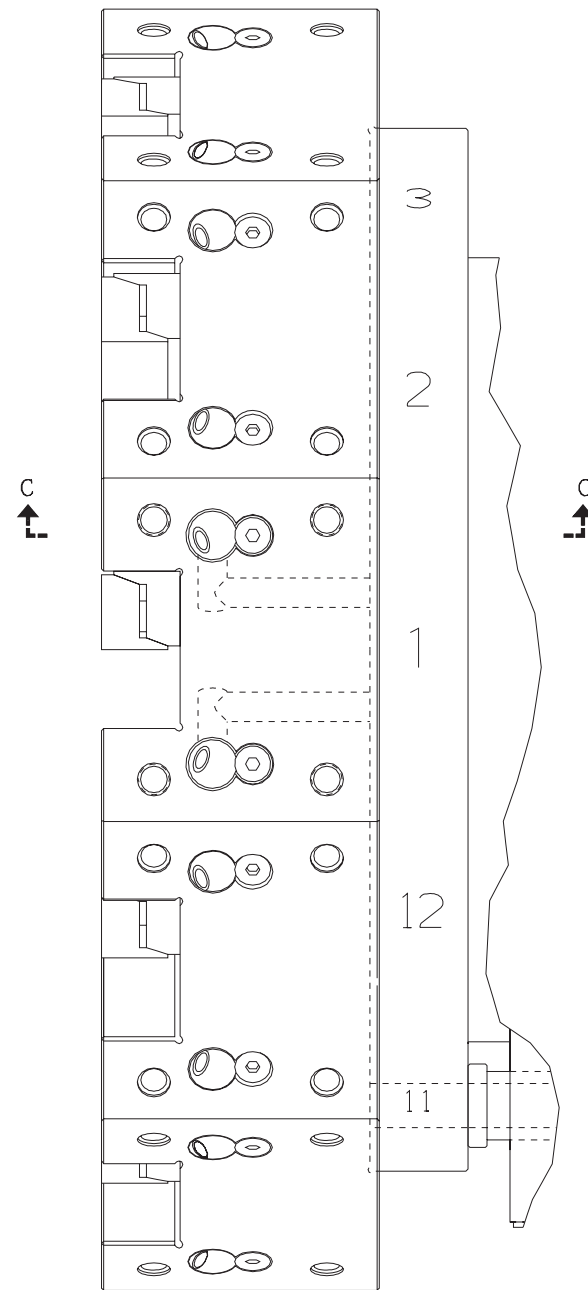
Turret Top Plate, 12 Station, English



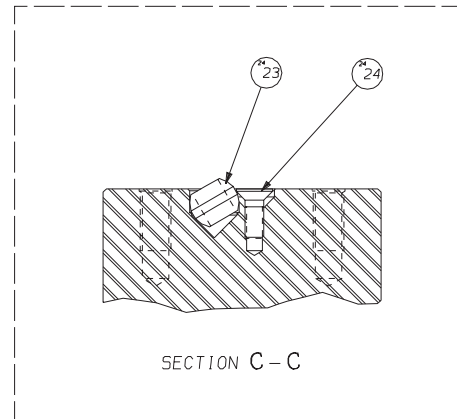
NAME
TOP PLATE ASSEMBLY
STANDARD TOOLING

PART NUMBER
CLA-0007214-E

REV LEVEL
SHEET 1 of 3 E



VIEW B-B



26

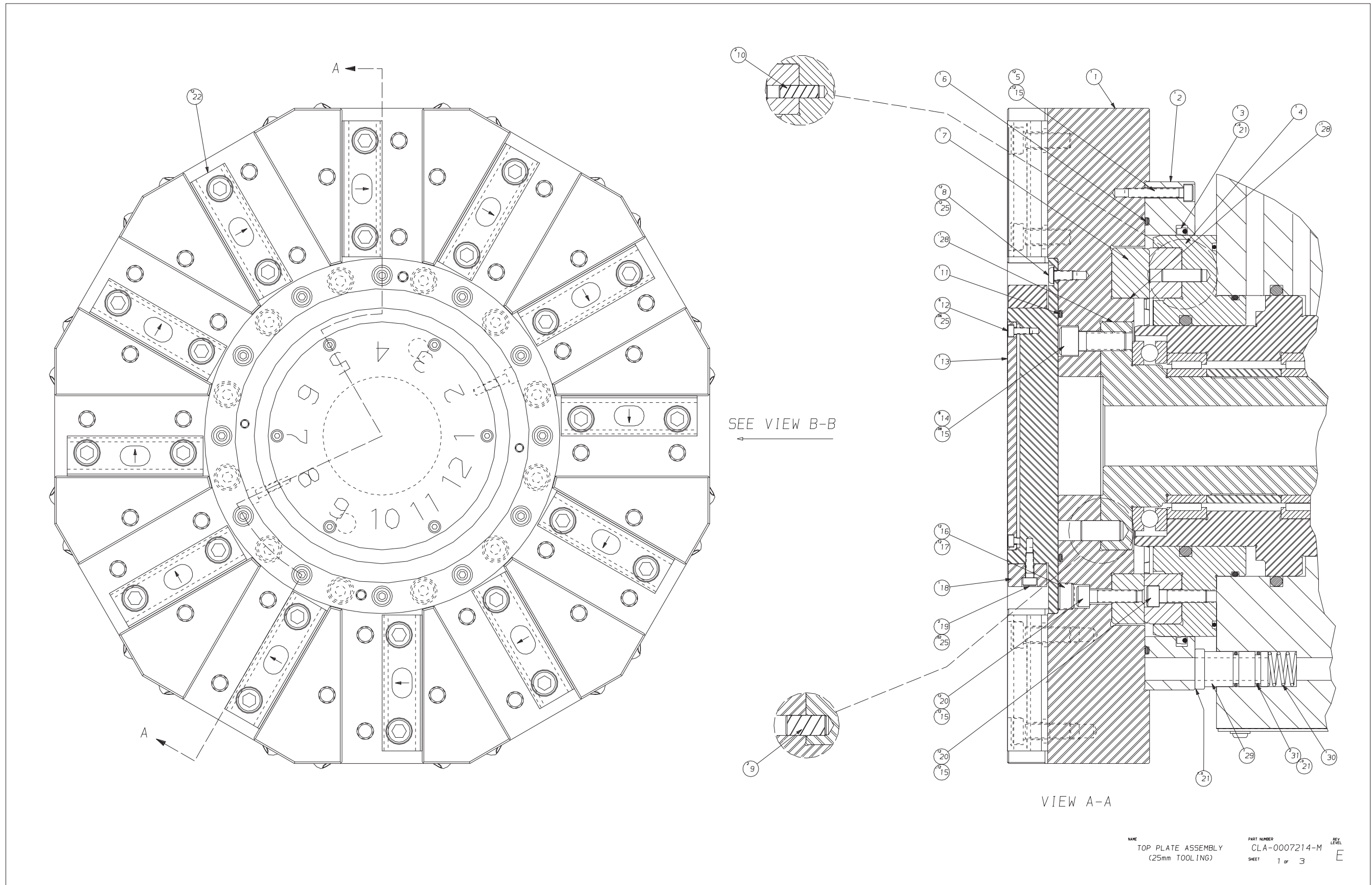
27

ITEM	PART NUMBER	QTY	DESCRIPTION
28	OR-0001114	22	O-RING
31	CL-0009764	1	SPRING
30	CL-0004144	1	BUSHING
29	VS-0010440	.2	ANTISEIZE
27	RF-0011971	2	BAG, MAIL
26	CL-0011890-BT	1	BORING BAR CENTERING GAGE
25	NC-0010884-01	0.20	ADHESIVE, LOCTITE #222
24	MS-0313616	24	M6 SCREW, FLAT HD SOCKET
23	CSA-0006058-01	24	BALL, COOLANT
22	CL-0011944-TC	12	CLAMP, TOOL ASSEMBLY
21	CS-0010994	2.0	GREASE, MOBIL 28
20	MS-0103820	24	M8 SCREW, SOCKET HD CAP
19	MS-0103517	2	M5 SCREW, SOCKET HD CAP
18	CL-0010419-01	1	RING, TOOL STOP (STD)
17	LT-0010884-5	0.12	SEALANT, PIPE
16	CS-0001914	12	PLUG
15	NC-0010884	0.44	ADHESIVE, LOCTITE #242
14	MS-0104220	8	M12 SCREW, SOCKET HD CAP
13	CL-0010419-NP	1	NAME PLATE, 12 STATION
12	MS-0103415	6	M4 SCREW, SOCKET HD CAP
11	CL-0009431	1	O-RING
10	NC-0006709	2	DOWEL PIN, PULL-OUT
9	CL-0006709	2	DOWEL PIN, PULL-OUT
8	MS-0303616	12	M6 SCREW, BUTTON HD
7	CL-0011792-TP	1	COUPLING, TOP PLATE
6	OR-0174169	1	O-RING
5	MS-0103621	12	M6 SCREW, SOCKET HD CAP
4	CL-0011792-H	1	COUPLING, HOUSING
3	CL-0009923	1	SEAL, POLY-PACK
2	CLA-0009813	1	COOLANT RING, TURRET
1	CLA-0007214-01	1	TOP PLATE, 12 STATION (STD)

NAME
TOP PLATE ASSEMBLY
STANDARD TOOLING

PART NUMBER
CLA-0007214-E
SHEET 2 of 3
REV LEVEL
D

Turret Top Plate, 12 Station, Metric

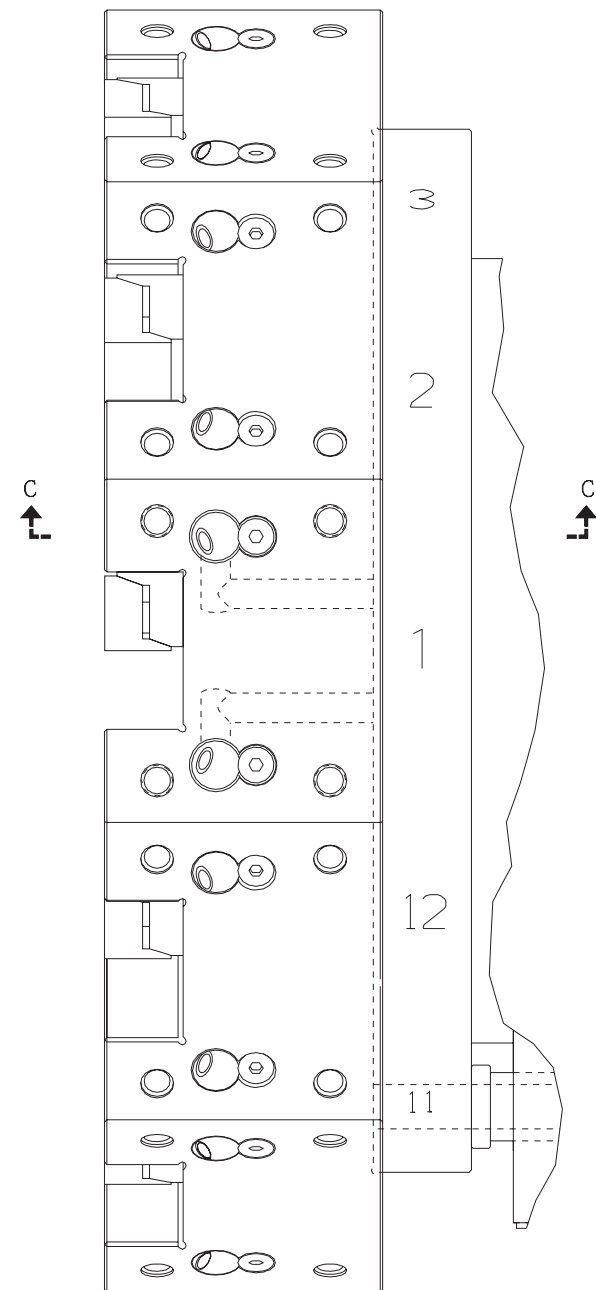


NAME
TOP PLATE ASSEMBLY
(25mm TOOLING)

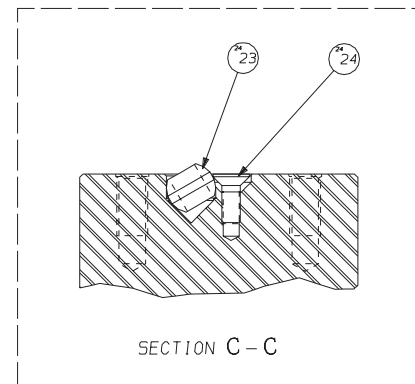
PART NUMBER
CLA-0007214-M

REV
LEVEL
E

SHEET
1 of 3



VIEW B-B



SECTION C-C

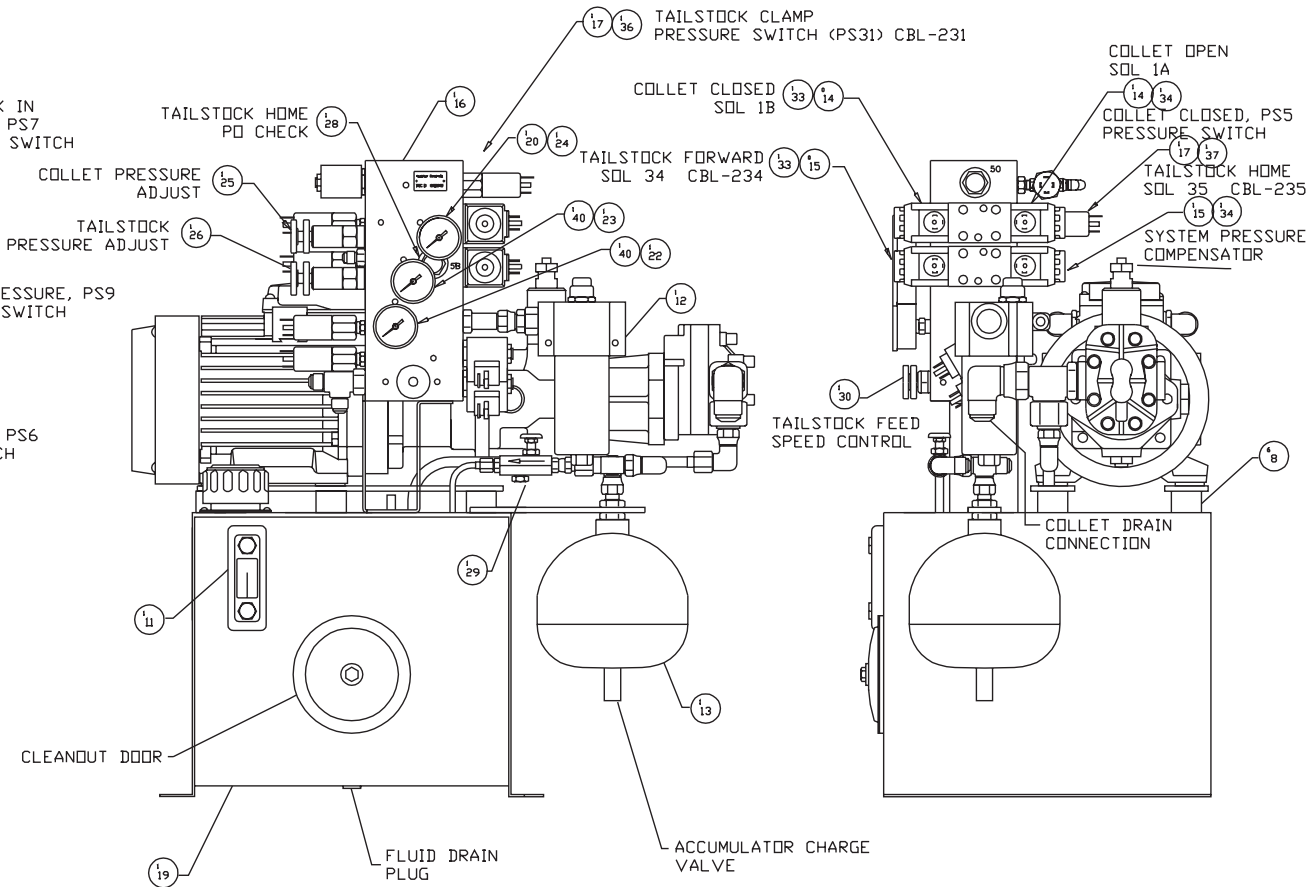
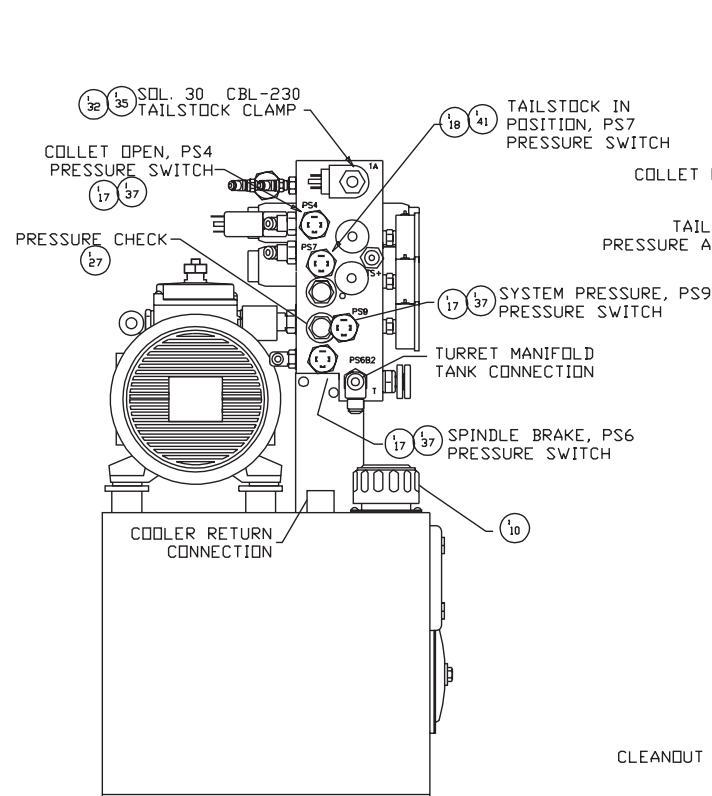
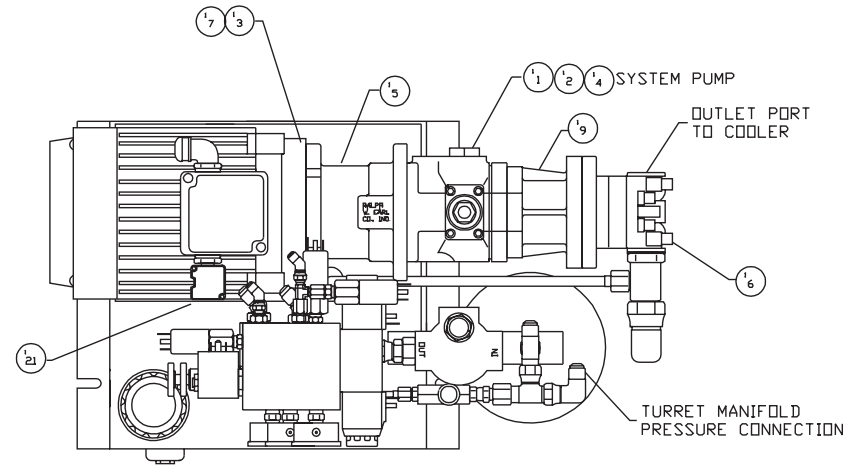
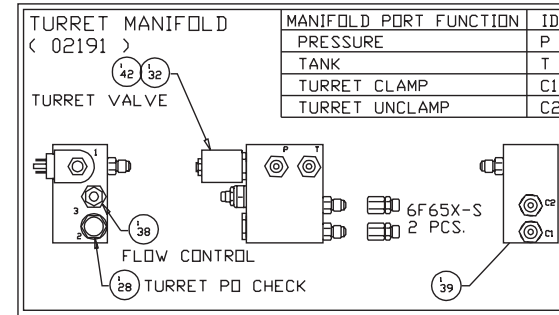
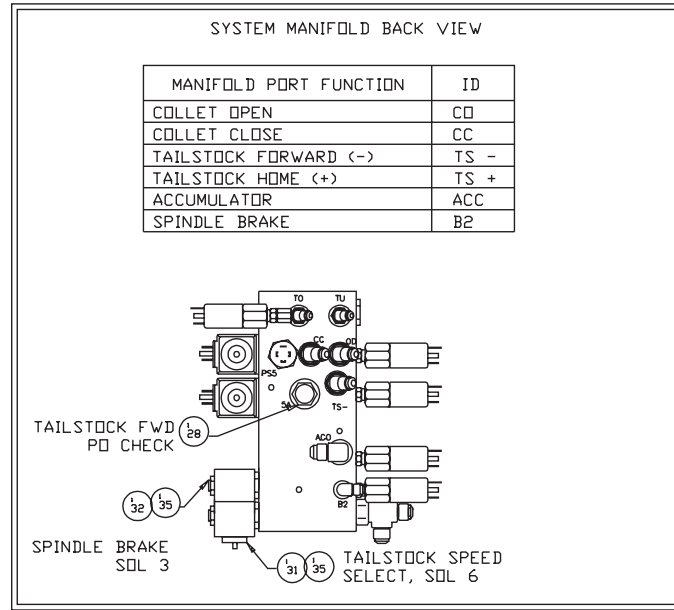
(27) (26)

ITEM	PART NUMBER	QTY	DESCRIPTION
31	OR-0001114	2	O-RING
30	CL-0009764	1	SPRING
29	CL-0004144	1	BUSHING
28	VS-0010440	.2	ANTI-SEIZE
27	CL-0011890-BM	1	GAGE, BORING BAR CENTERING
26	RF-0011971	2	BAG, MAIL
25	NC-0010884-01	0.20	ADHESIVE, LOCTITE #222
24	MS-0313616	24	M6 SCREW, FLAT HD SOCKET
23	CSA-0006058-01	24	BALL, COOLANT
22	CL-0011944-MC	12	CLAMP, TOOL ASSEMBLY
21	CS-0010994	2.0	GREASE, MOBIL 28
20	MS-0103820	24	M8 SCREW, SOCKET HD CAP
19	MS-0103517	2	M5 SCREW, SOCKET HD CAP
18	CL-0010419-02	1	RING, TOOL STOP (25mm TOOLING)
17	LT-0010884-5	0.12	SEALANT, PIPE
16	CS-0001914	12	PLUG
15	NC-0010884	0.42	ADHESIVE, LOCTITE #242
14	MS-0104220	8	M12 SCREW, SOCKET HD CAP
13	CL-0010419-NP	1	NAME PLATE, 12 STATION
12	MS-0103415	6	M4 SCREW, SOCKET HD CAP
11	CL-0009431	1	O-RING
10	NC-0006709	2	DOWEL PIN, PULL-OUT
9	CL-0006709	2	DOWEL PIN, PULL-OUT
8	MS-0303616	12	M6 SCREW, BUTTON HD
7	CL-0011792-TP	1	COUPLING, TOP PLATE
6	OR-0174169	1	O-RING
5	MS-0103621	12	M6 SCREW, SOCKET HD CAP
4	CL-0011792-H	1	COUPLING, HOUSING
3	CL-0009923	1	SEAL, POLY-PACK
2	CLA-0009813	1	COOLANT RING, TURRET
1	CLA-0007214	1	TOP PLATE, (25mm TOOLING)

NAME
TOP PLATE ASSEMBLY
(25mm TOOLING)

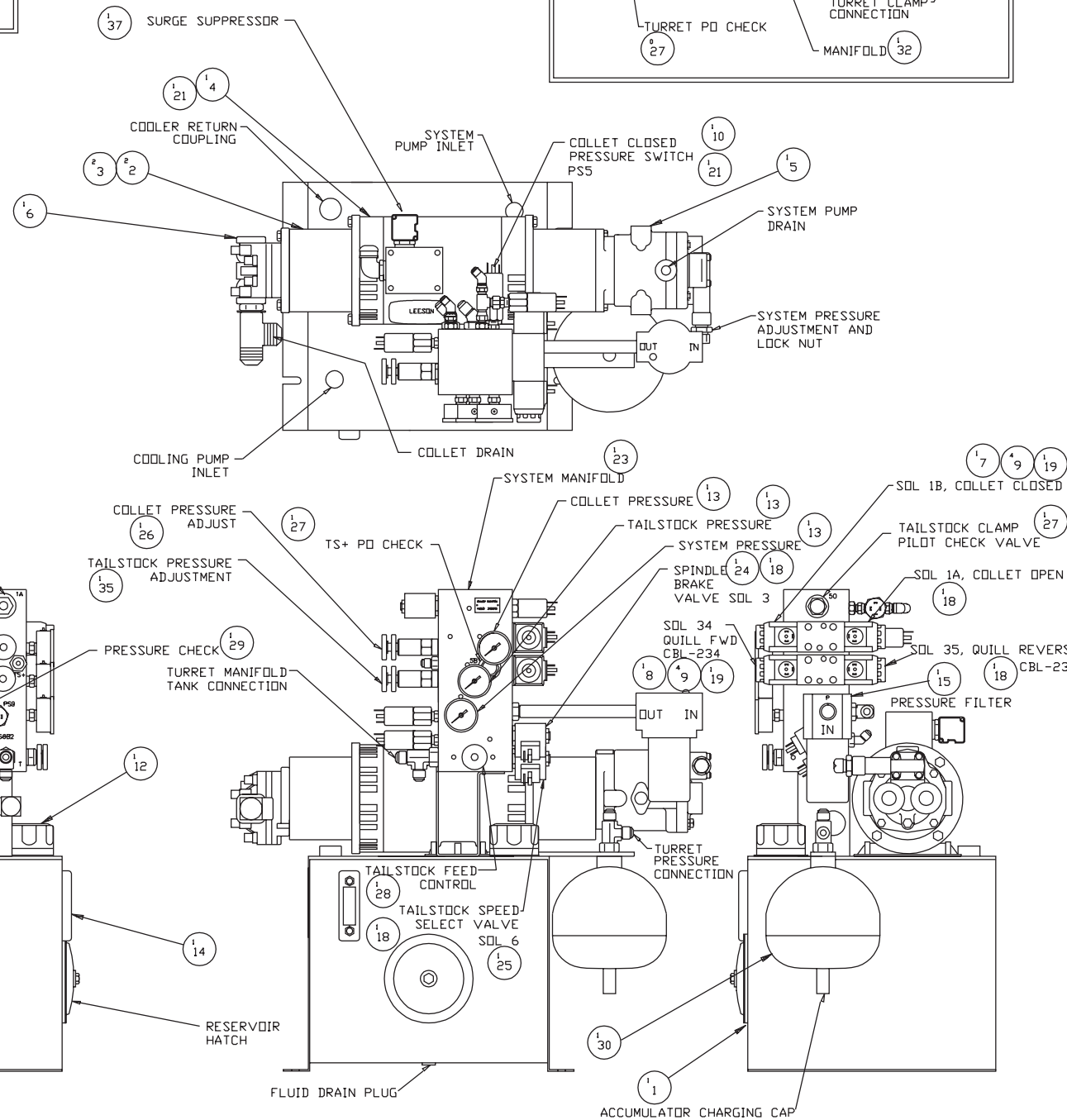
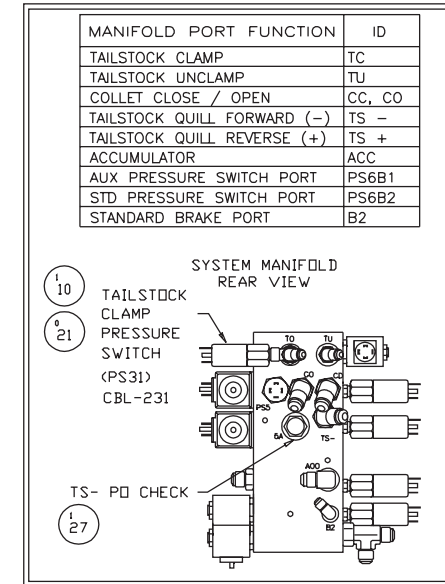
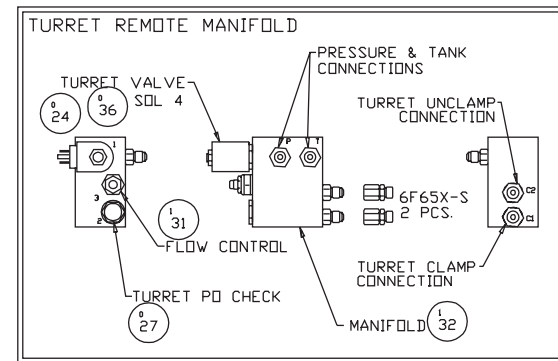
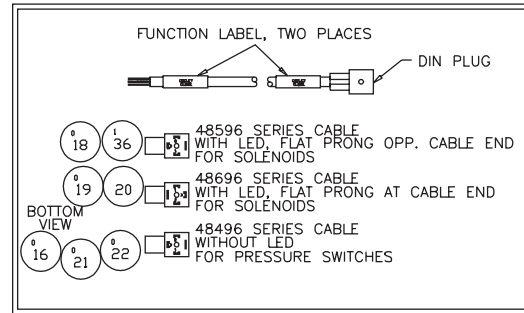
PART NUMBER
CLA-0007214-M
SHEET 2 of 3
REV LEVEL
D

Hydraulic System (CE Mark)



ITEM	HARDINGE PART NO.	QUANTITY	RWE REFERENCE NO.
1	SG 00033253HCE	1.000	VICKERS VVA20-FP-CCVV-21
2	ITEM 2	1.000	MAGNALDY M-100-3/4X1/8
3	ITEM 3	1.000	MAGNALDY M-100-28mm X 8mm
4	SG 0011792 P	1.000	MAGNALDY 170-HYTREL
5	ITEM 5	1.000	RWE 67995
6	VL 0003325REC	1.000	EATON 26002-RAD
7	ITEM 7	1.000	ABB M2AA-100-LA 3HP/3PH
8	ITEM 8	6.000	KARMAN K434
9	ITEM 9	1.000	VICKERS AKVVZ20/V10
10	CL 0000537	1.000	LENZ FCS-537
11	SG 0011537	1.000	LDI G1615-03-A-1
12	SG 001077902	1.000	PALL H49020-A12-KN-RBPT
13	ITEM 13	1.000	DILAIR IH-120-15-100-3
14	CL 000304805	1.000	VICKERS DG4V3S-DC-MUH-5-60
15	CL 000304806	1.000	VICKERS DG4V3S-6C-MUH-5-60
16	ITEM 16	1.000	VICKERS MCD-3595
17	CSA001173602	5.000	CCS 6710P34 60 RISING
18	CSA001173603	1.000	CCS 6710P37 40 FALLING
19	ITEM 19	1.000	HS 15695A01
20	ITEM 20	1.000	LENZ AFC-1M-20RC
21	ITEM 21	1.000	MUR 23-030
22	ITEM 22	1.000	RWE 07791
23	ITEM 23	1.000	RWE 07891
24	CL 001011569	1.000	RWE 07591A00
25	CS 000304804	1.000	VICKERS PRV1-10-K-0-6/
26	CL 000304811	1.000	VICKERS PRV1-10-K-0-12/
27	ITEM 27	1.000	VICKERS CV1-10-P-0-5
28	CS 001145207	3.000	VICKERS SPC2-10-P-0-25
29	ITEM 29	1.000	DELTRDL FM620SK
30	CL 001145203	1.000	VICKERS FCV7-10-K-0-NVF
31	CL 000304808	1.000	VICKERS SV4-10-C-0-24DG
32	CL 000304807	3.000	VICKERS SV1-10-4-0-24DG
33	ITEM 33	2.000	CABLE 48696-D-01-048
34	ITEM 34	2.000	CABLE 48596-D-01-048
35	ITEM 35	3.000	CABLE 48596-G-01-057
36	ITEM 36	1.000	CABLE 48496-D-01-148
37	ITEM 37	4.000	CABLE 48396-C-01-048
38	ITEM 38	1.000	VICKERS FCV7-10-S-0-FF
39	ITEM 39	1.000	MW 93-0513
40	ITEM 40	2.000	DMIC CX20BGSB11N
41	ITEM 41	1.000	CABLE 48396-D-01-048
42	ITEM 42	1.000	CABLE 48596-I-00-252

Revised: August 18, 1999



ITEM	HARDINGE PART NO.	QUANTITY	RWE REFERENCE NO.
1	CL 0003310 R	1.000	HYDRD SYSTEMS 31960 10 GAL
2	CL 000838401	2.000	MAGNALDY ADAPTER M056422A
3	SG 0011792	2.000	MAGNALDY CDUPLJNG PM-90
4	CL 000933201	1.000	LEESDN 113776
5	ITEM 5	1.000	VICKERS PV013A2LSE1S10C14
6	VL 0003325REC	1.000	EATON 26002-RAD 2 GPM GEAR
7	CL 000304805	1.000	VICKERS DG4V3S-DC-MUH5-60
8	CL 000304806	1.000	VICKERS DG4V3S-6C-MUH5-60
9	ITEM 9	8.000	BOLT MOUNTING 10-24X1-L/4
10	CSA001173602	5.000	CCS 6710P34
11	CSA001173603	1.000	CCS 6710P37
12	CL 0000537	1.000	LENZ FCS-537
13	ITEM 13	3.000	LENZ AFC-IM-20RC
14	SG 0011537	1.000	LDI G1615-03-A-1
15	SG 001077902	1.000	PALL H+-9020A-12KXRBPT
16	ITEM 16	1.000	CABLE 48496-F-01-132
17	CS 0010116	4.000	E50027HB
18	ITEM 18	5.000	CABLE 48596-B-01-148
19	ITEM 19	2.000	CABLE 48696-B-01-148
20			
21	ITEM 21	2.000	CABLE 48496-D-01-148
22	ITEM 22	3.000	CABLE 48496-E-01-132
23	ITEM 23	1.000	MOD CNT MCD-3595
24	CL 000304807	2.000	VALVE SV1-10-4-0-24DG
25	CL 000304808	1.000	MOD CONTRL SV4-10-C-0-24DG
26	CS 000304804	1.000	MODULAR CONTRDL PRV1-10-K-0-6/
27	CS 001145207	3.000	MODULAR CONTRDL SPC2-10-P-0-25
28	CL 001145203	1.000	MOD CONTRDL FCV7-10-K-0-NVF
29	ITEM 29	1.000	MODULAR CONTRDL CV1-10-P-0-5
30	ITEM 30	1.000	DILAIR 1H-120-15-100-3
31	ITEM 31	1.000	MOD CONTRDL FCV7-10-S-0-FF
32	ITEM 32	1.000	MW 93-0513
35	CL 000304811	1.000	MODULAR CONTRDL PRV1-10-K-0-12/
36	ITEM 36	1.000	CABLE 48596-1-1-00-252
37	ITEM 37	1.000	MUR 23-020

- NOTES -



“Performance Has Established Leadership for Hardinge”®

Hardinge Inc.

**Elmira, New York 14902-1507 USA
Phone: 607-734-2281 Fax: 607-734-8819
www.hardinge.com**