



PARTS LIST



TP2141

CONQUEST[®] T51 & T65 Series CNC Lathes

Equipped with the
GE Fanuc 18T Control

Revised: August 17, 1999

Manual No. PL-58C
Part No. PLC-0009500-0058

Litho in U.S.A.
June, 1998

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, below the main disconnect switch.
2. List the following:
 - a. Manual Number (PL-58C).
 - b. Page Number.
 - c. Item Number.
 - d. Part Description.
 - e. Part Number.
 - f. Quantity of each part required.
3. Specify how and where to ship.

**Hardinge Inc.
One Hardinge Drive
P.O. Box 1507
Elmira, New York USA 14902-1507
Phone: (607) 734-2281 FAX: (607) 734-8819**

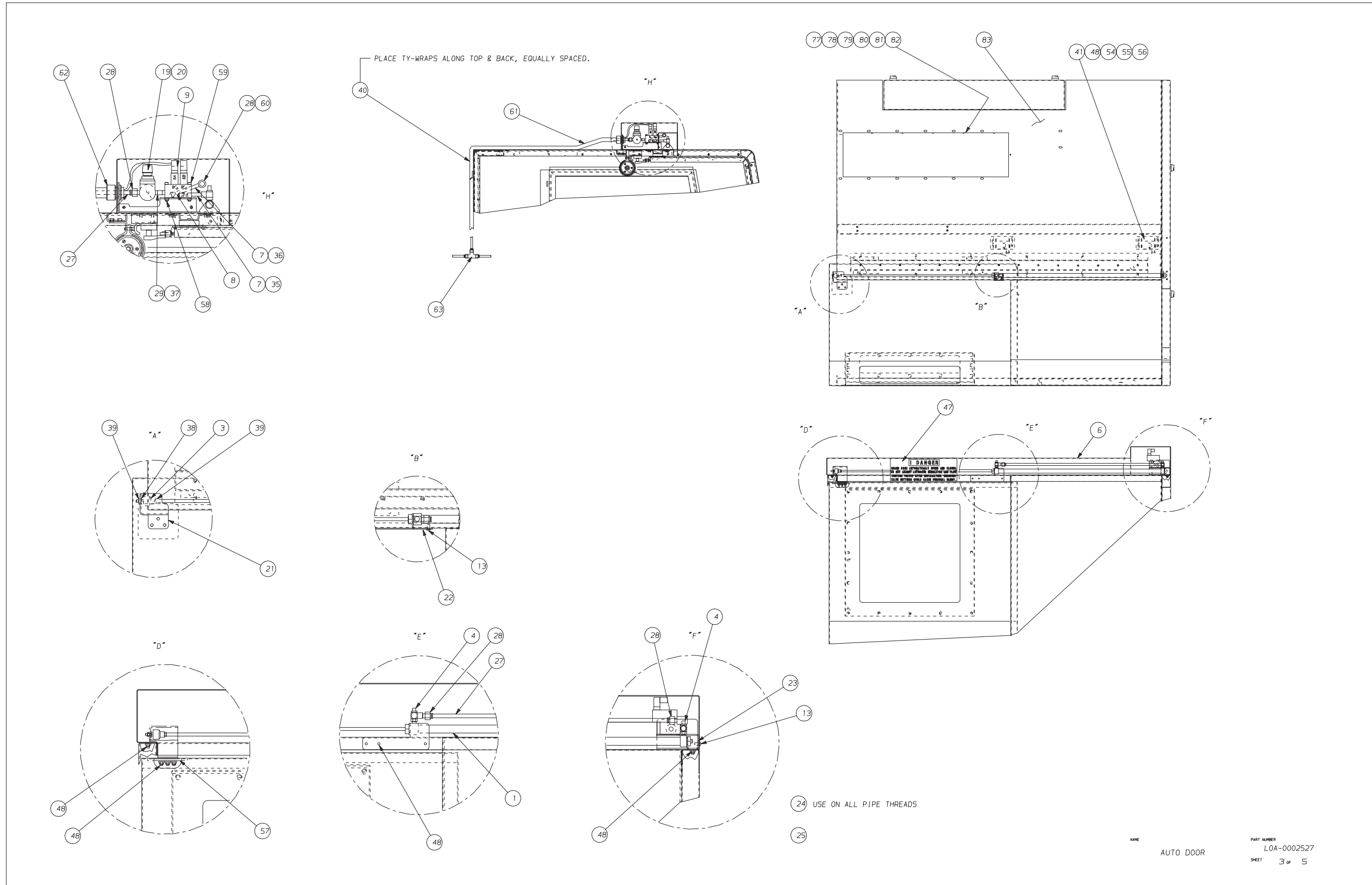
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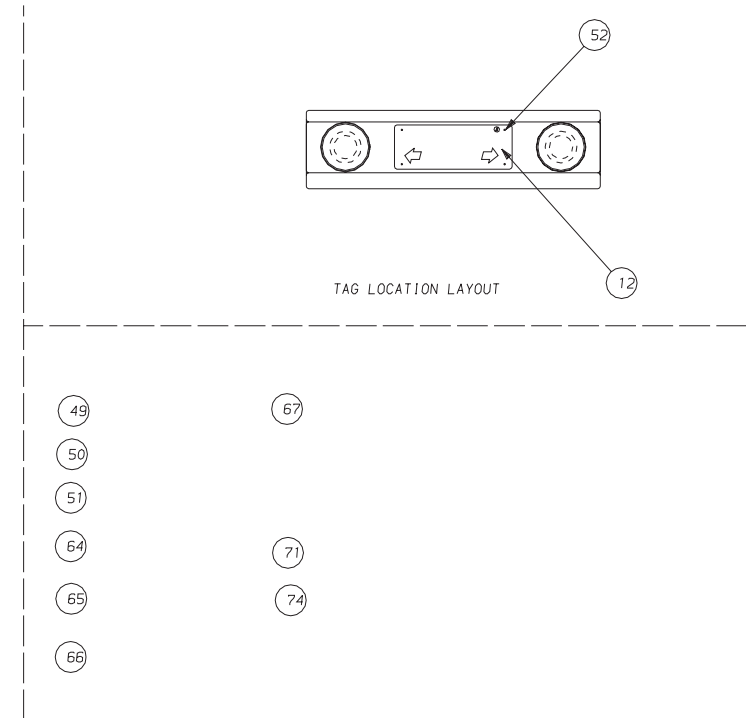
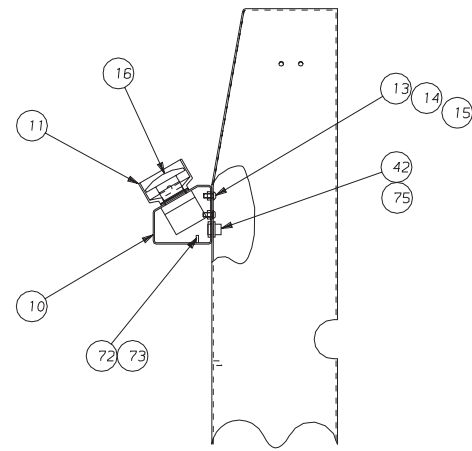
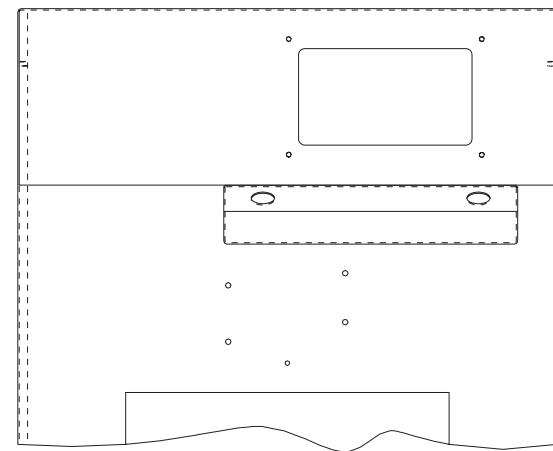
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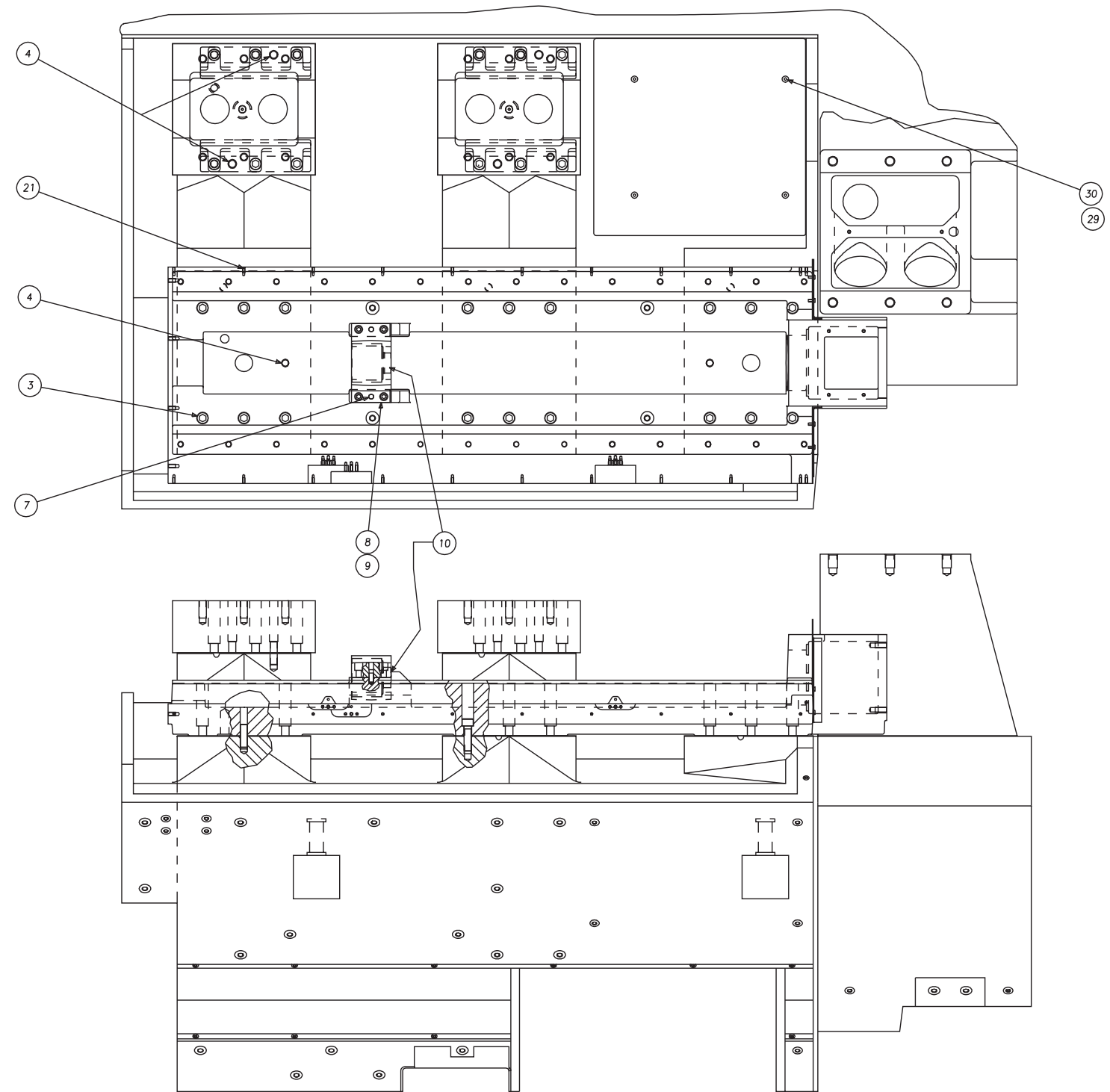
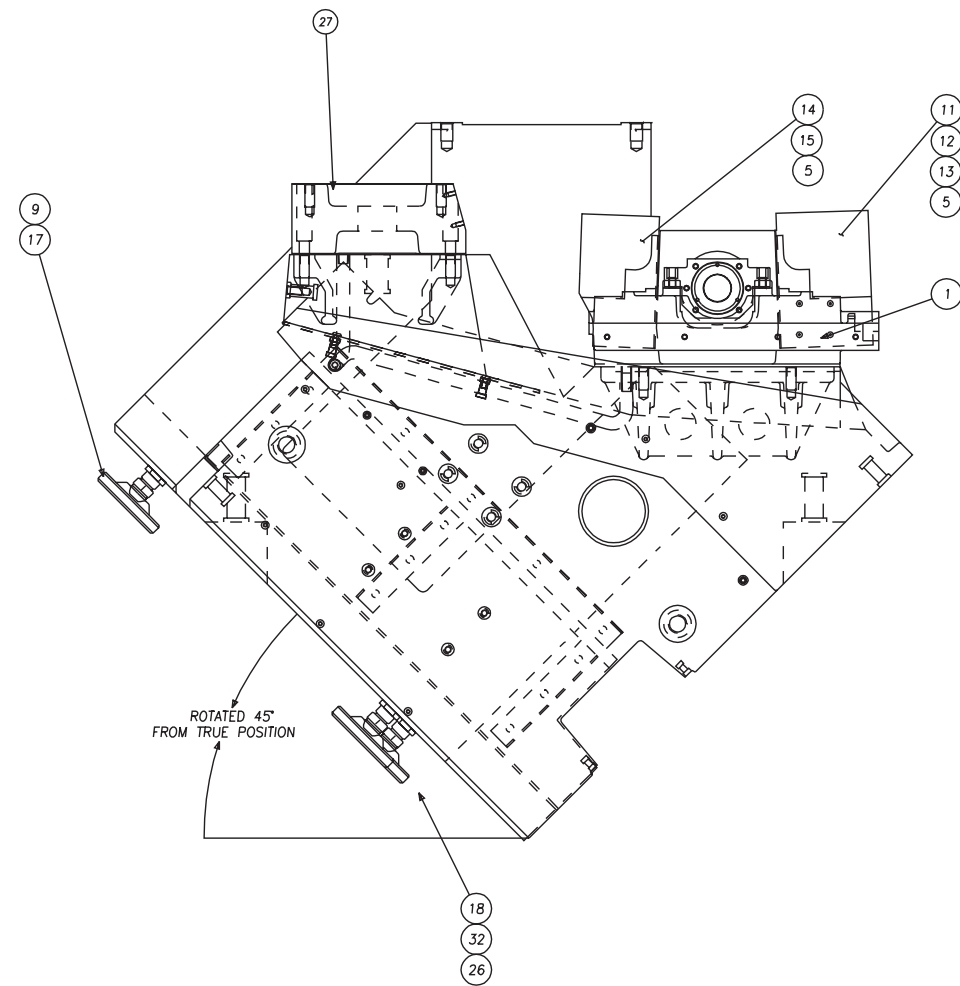
NAME AUTO DOOR PART NUMBER LOA-0002527 SHEET 4 of 5

83	CH-0009623-02	3	CLAMP, N. Y. GRIP CABLE
82	SB-0010785	1	BODY, 90 DEG COM
81	AH-0011508	1	NUT, LOCK
80	S0-0010226	1	GASKET ASSEM
79	DB-0009207-9B	1	NUT, CONNECTOR COMPRESSION
78	DB-0009207-9V	1	GROMMET
77	DB-0009207-W	1	WASHER CONNECTOR
75	CL-0003011-J	1	JOY CABLE
74	LO-0002527	1	INSTALLATION INSTRUCTIONS,
ITEM	PART NUMBER	QTY	DESCRIPTION

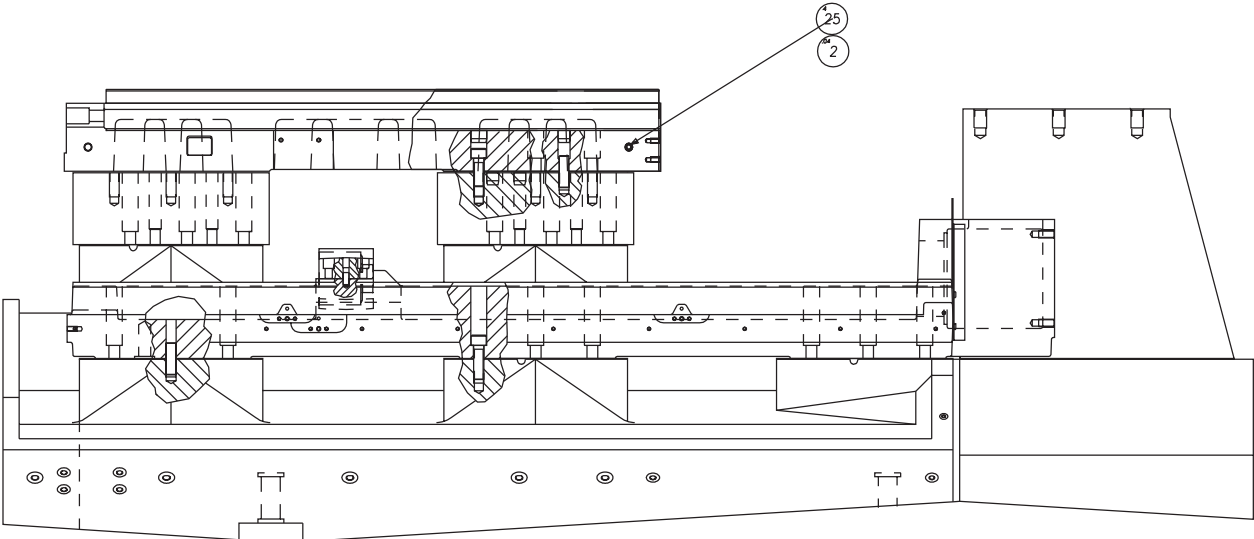
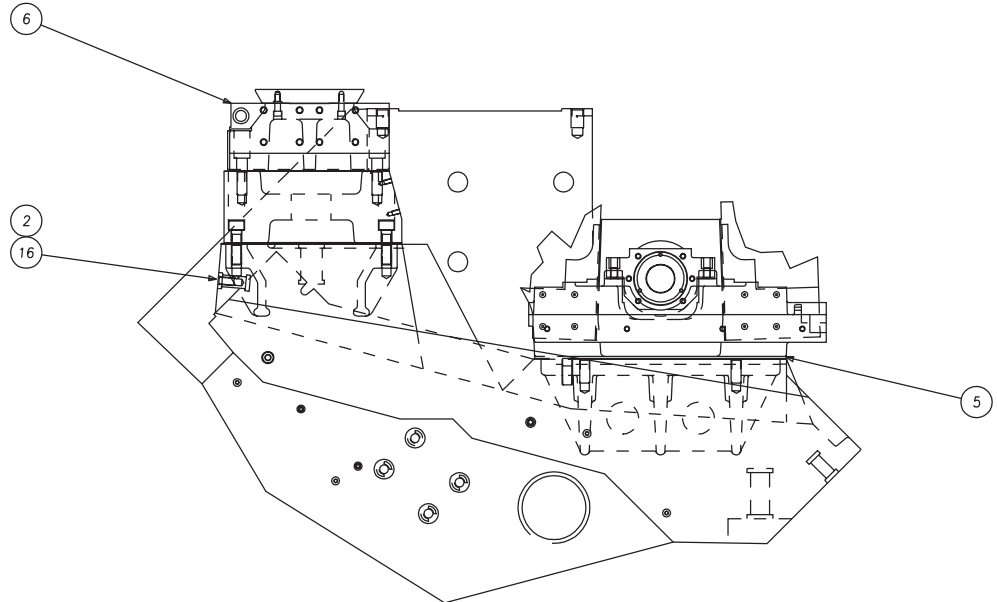
73	MD-0002883-B	1	NUT
72	HC-0002840	1	WASHER
71	RAA-009188-21	4	BUTT SPLICE
67	NC-0010473-06	0	HEATSRINK
66	LOD-0002413	1	CABLE CHART
65	LO-0002571	1	LAYOUT CABLE TAGS, CS-51 A
64	F3-0009977	6	WIRE MARKERS
63	CL-0007702-05	1	TEE, UNION
62	CL-0007702-01	1	FITTING, STRAIGHT
61	HG-0010229-02	8	CONDUIT, 3/4"
60	PL-0010110	1	ELBOW, 90 DEGREE FEMALE
59	MS-0103521	2	SOCKET HEAD CAP SCREW M5 X
58	MN-0283510	2	SERRATED HEX FLANGE NUT
57	57	1	1
56	MS-0103517	4	SCREW, SK HD CP M5 X .8 X
55	MW-0193510	4	WASHER, LOCK SQUARE M5
54	CLA-0001990-79	1	BRACKET, SWITCH (MAIN GUAR
52	R-0008044	4	PIN, ESCUTCHEON
51	CK-0009188-20	5	FERRULES, 20 AWG
50	B73-0009188-RA	1	STAKON #10 (22-18 AWG)
49	221-0002874-BU	2	WIRE 22 AWG BU
48	MN-0283610	7	NUT, SER. HEX FLANGE
48	48	3	3
48	MN-0283610	4	NUT, SER. HEX FLANGE
47	HGA-0010366-43	1	TAG, CL AUTODOOR DANGER
42	CL-0012042-R	1	RECEPTACLE, JOY
41	CSA-0010224-01	1	SWITCH, LIMIT
40	CC-0008104-02	5	TY-WRAP, HOSE CLAMP
39	TL-0000414-B	2	NUT, HEX 5/16-24
38	5 0001893	1	WASHER, FLAT 5/16"
37	AUA-0010785	1	BUSHING
36	NC-0010786	1	ELBOW, STREET
35	CT-0007709-01	1	ELBOW, STREET
29	NC-0003519	1	NIPPLE
28	HG-0007702	4	CONNECTOR, STR. MALE 1/8 N
27	HG-0007007	12	TUBING, 5/16 O.D.
25	CLD-0008220	1	ELECTRICAL DIAGRAM CL
24	LT-0010884-S	0	SEALANT
23	CL-0003990-26	1	BRACKET, BACK AUTODOOR
22	CL-0003990-25	1	BRACKET, MIDDLE AUTODOOR
21	CL-0003990-24	1	BRACKET, FRONT AUTODOOR
20	BF-0011537	1	GAGE
19	AH-0010779	1	REGULATOR
16	HG-0003650-04	2	SWITCH
15	MW-0183610	3	WASHER, LOCK REG. M6
14	MW-0103610	3	WASHER, FLAT REG. M6
13	MS-0303616	6	BT. HD. SCREW M6 X 1.0 X 1
12	CL-0010366-18	1	TAG, AUTODOOR
11	CL-0003780-GH	2	GUARD, HOUSING AUTODOOR
10	CL-0003990-33	1	BOX, AUTODOOR JUNCTION
9	CL-0003048-15	2	VALVE, MAC (45A-LAC-DDAJ-1
8	CL-0010234-05	2	MANIFOLD, (MAC M45008-01)
7	NT-0003504-A	2	NIPPLE, PIPE
6	CL-0010115-82	1	COVER, AUTODOOR CYLINDER
4	CS-0011452-01	2	VALVE, FLOW CONTROL
3	CL-0003972	1	FLOATING JOINT
1	CLA-00002917-01	1	CYLINDER, AUTODOOR CL
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME AUTO DOOR PART NUMBER LOA-0002527 SHEET 5 of 5

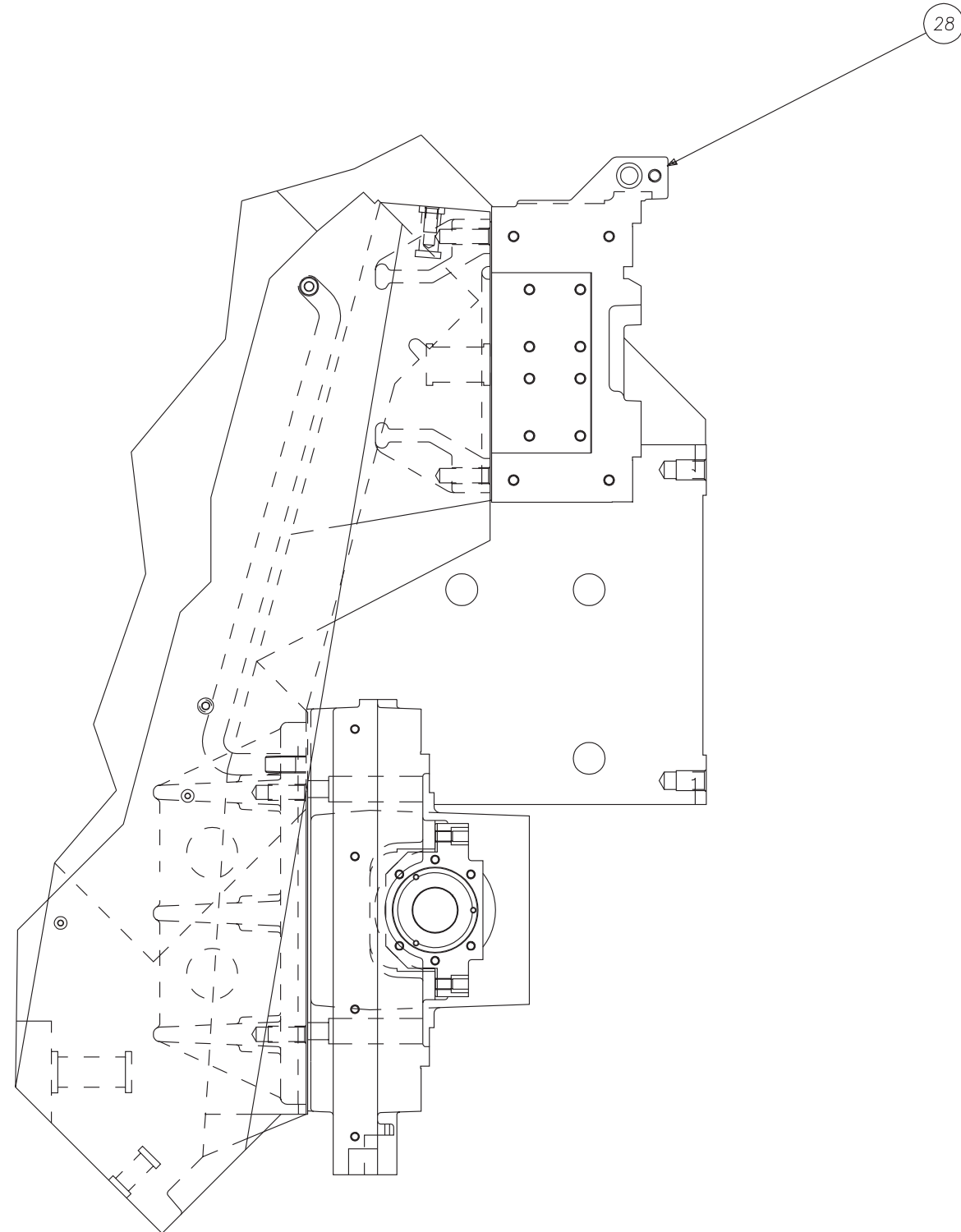
Bed/Base Assembly, Rear Discharge Machine



NAME: BASE ASSEMBLY REAR DISCHARGE
 PART NUMBER: CL 000001RD
 SHEET: 1 of 5

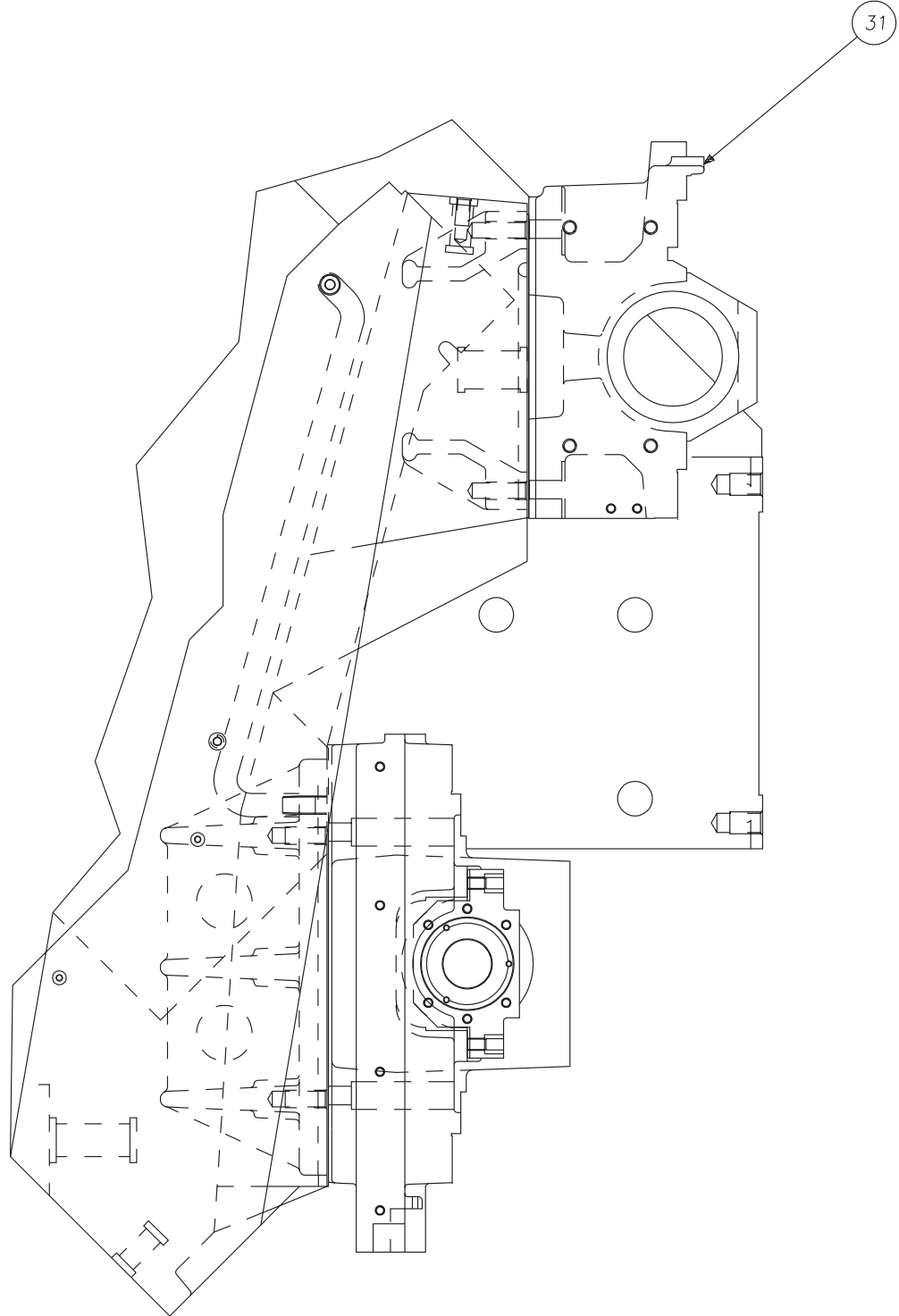


NAME BASE ASSEMBLY REAR DISCHARGE PART NUMBER CL 0000001RD SHEET 2 of 5



BASE ASSEMBLY
REAR DISCHARGE

CL 000001RD
3 5



NAME
BASE ASSEMBLY
REAR DISCHARGE

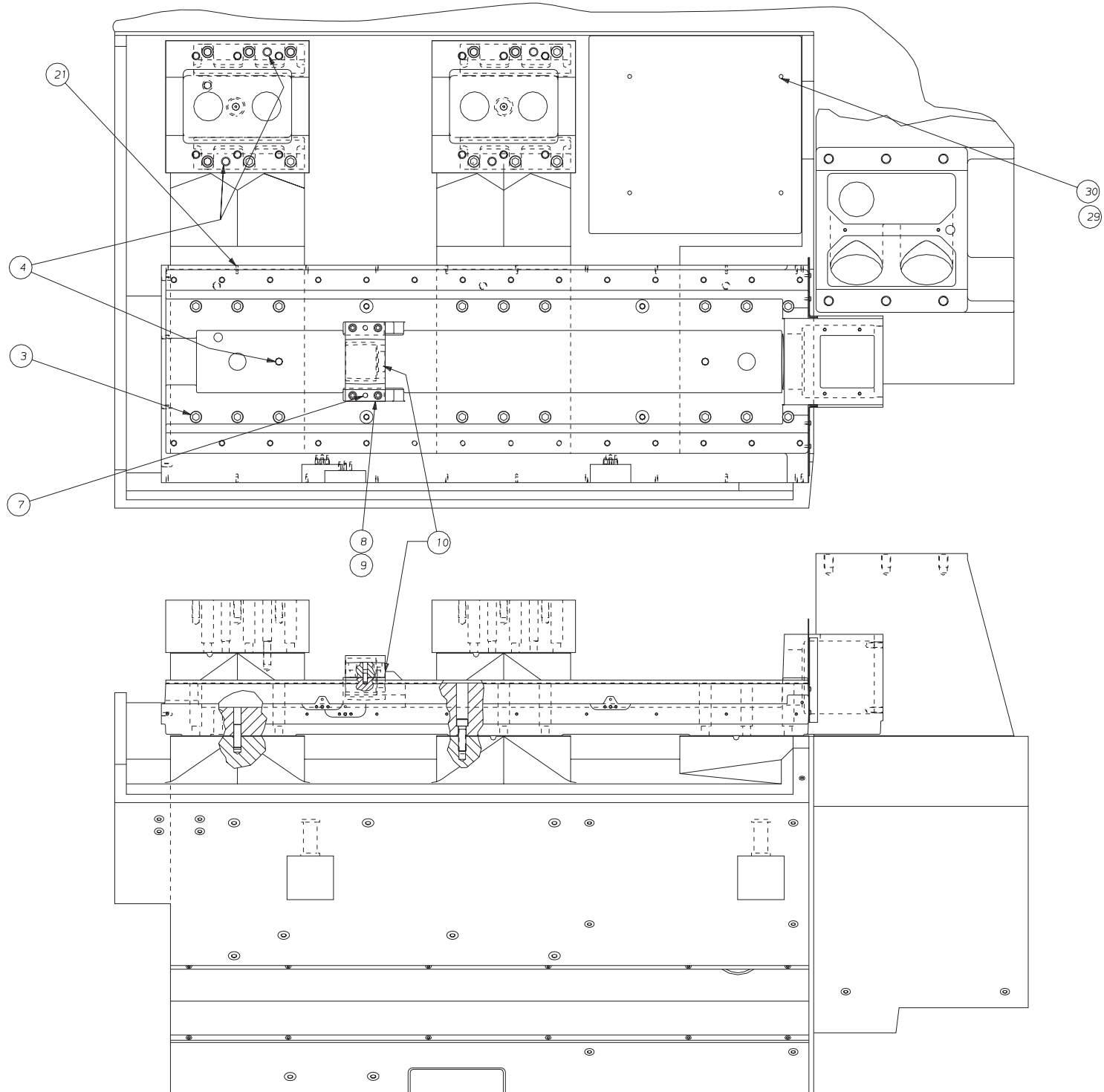
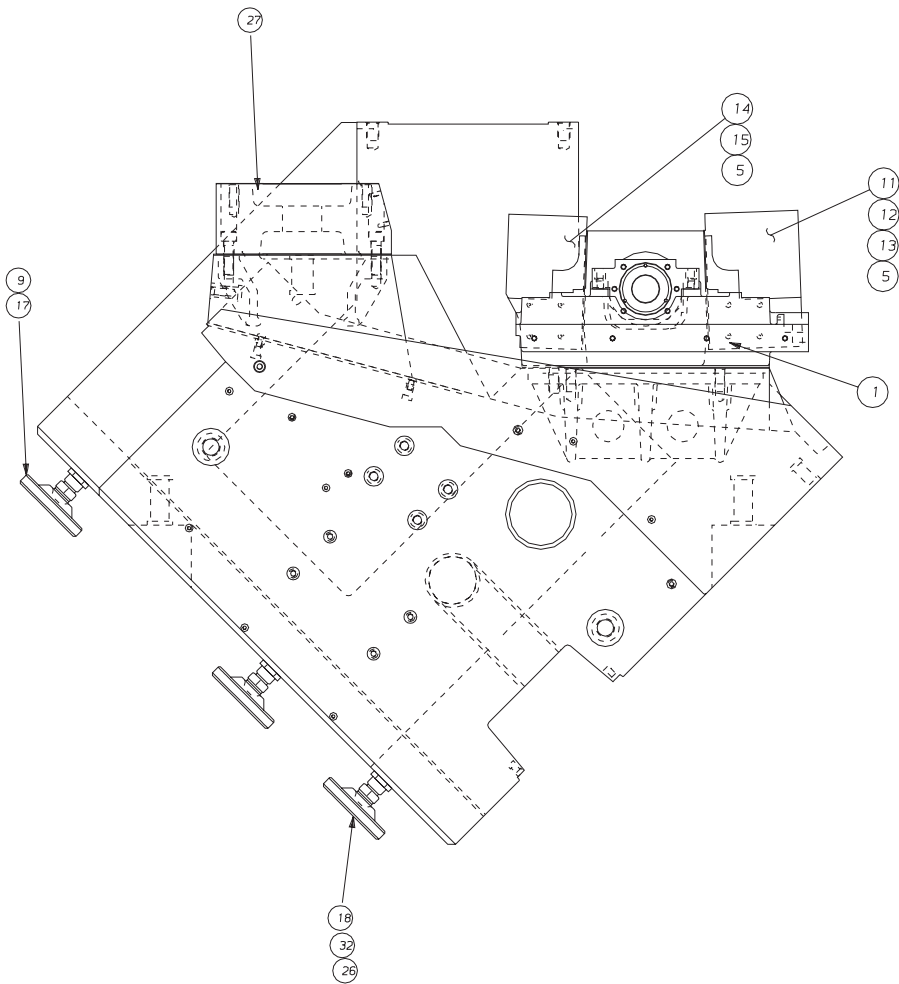
PART NUMBER
CL 0000001RD
SHEET 4 OF 5

Bed/Base Assembly, Rear Discharge Machine

32	NC 001088401	.03	SEALANT
31	CL 0000262LA	1	BED, RAM TURRET
30	MS 0303817	4	M8 SCREW, BUTT HD x 16mm
29	CL 000499071	1	SHIELD, CHIP
28	CL 0000262SS	1	BED, SUB SPIN
27	CLA0010599	2	RISER BLOCK, TAILSTOCK
26	MS 0104220	3	M12 SCREW, SKHD CP x 30mm
25	MS 0554216	4	M12 SCREW, SOCKET SET-CUP
21	S 001070009	1	PLUG, LEE
18	CLA0009455	3	FOOT, BASE
17	CL 0009454	3	FOOT, FIXED-BASE
16	MS 0554217	2	SCREW, M12 SHCS
15	CLA001011621	1	GASKET, RIGHT END
14	CL 000199094	1	BRACKET, RIGHT
13	MS 0303519	8	M5 SCREW, BUTT HD x 25mm
12	CL 001011620	1	RUBBER, LEFT
11	CL 000199003	1	BRACKET, LEFT
10	CL 0011932	1	SUPPORT, BALLSCREW
9	NC 0010884	6.03	SEALANT
8	MS 0104020	4	M10 SCREW, SKHD CAP X 30M
7	CS 000463003	2	DOWEL, 3/8 PULLOUT
6	CL 0000262TA	1	BED ASSEMBLY, TAILSTOCK
5	GE 0010884	1.02	SEALANT
4	CL 0004629	6	PIN, DOWEL PULL-OUT
3	MS 0104625	18	M16 SCREW, SKHD CP x 55mm
2	LT 0010884 S	.05	SEALANT
1	CLA0000262	1	BED, CARRIAGE
ITEM	PART NUMBER	QTY	DESCRIPTION

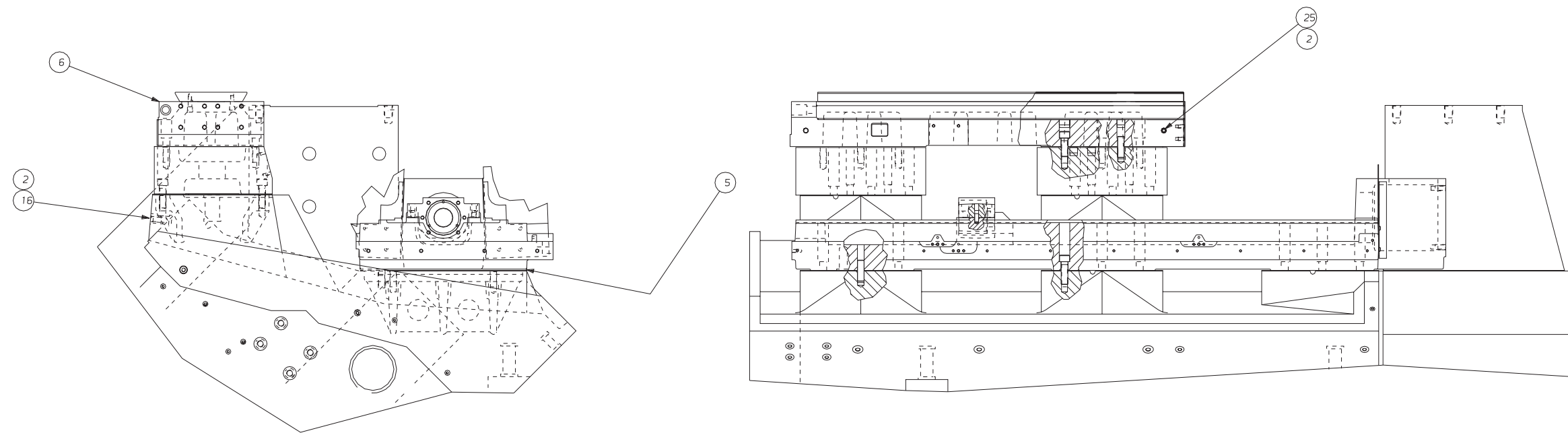
BASE ASSEMBLY
REAR DISCHARGE

CL 0000001RD
5 5



NAME: BASE ASSEMBLY
 PART NUMBER: CLA-0000001
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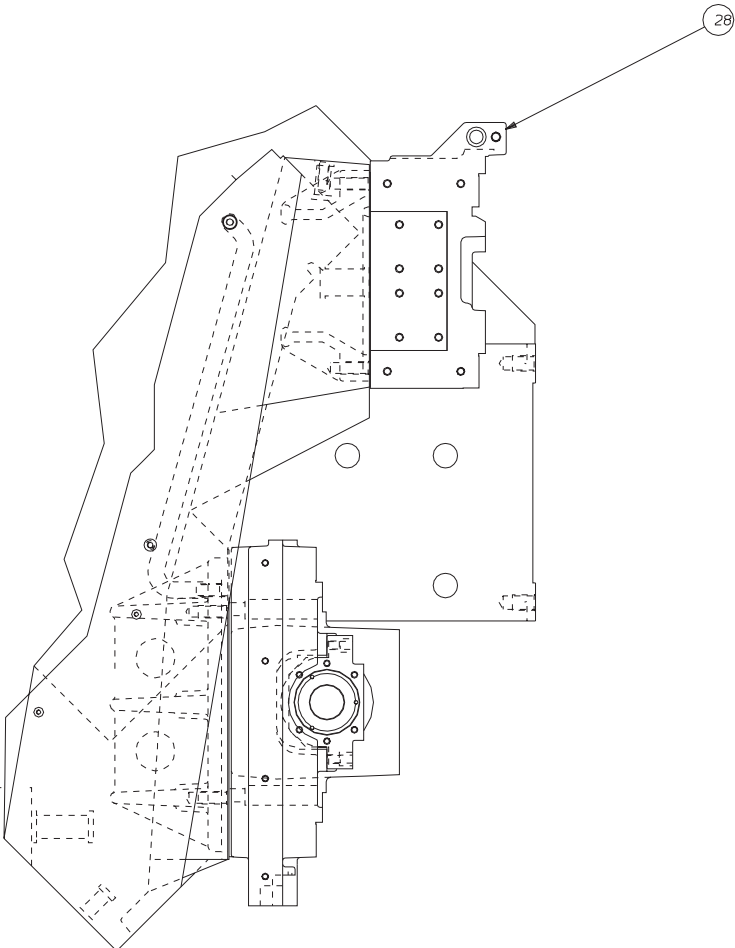
Bed/Base Assembly, Side Discharge Machine



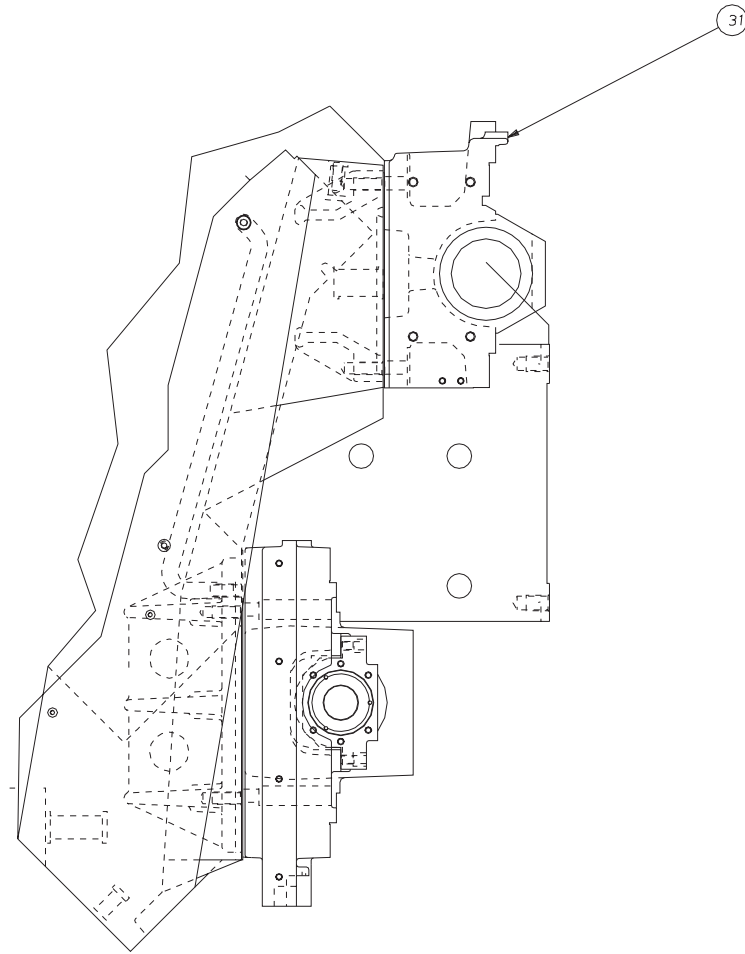
NAME
BASE ASSEMBLY

PART NUMBER
CLA-0000001

SHEET
2 of 5



NAME BASE ASSEMBLY PART NUMBER CLA-0000001
SHEET 3 of 5



NAME
BASE ASSEMBLY

PART NUMBER
CLA-0000001

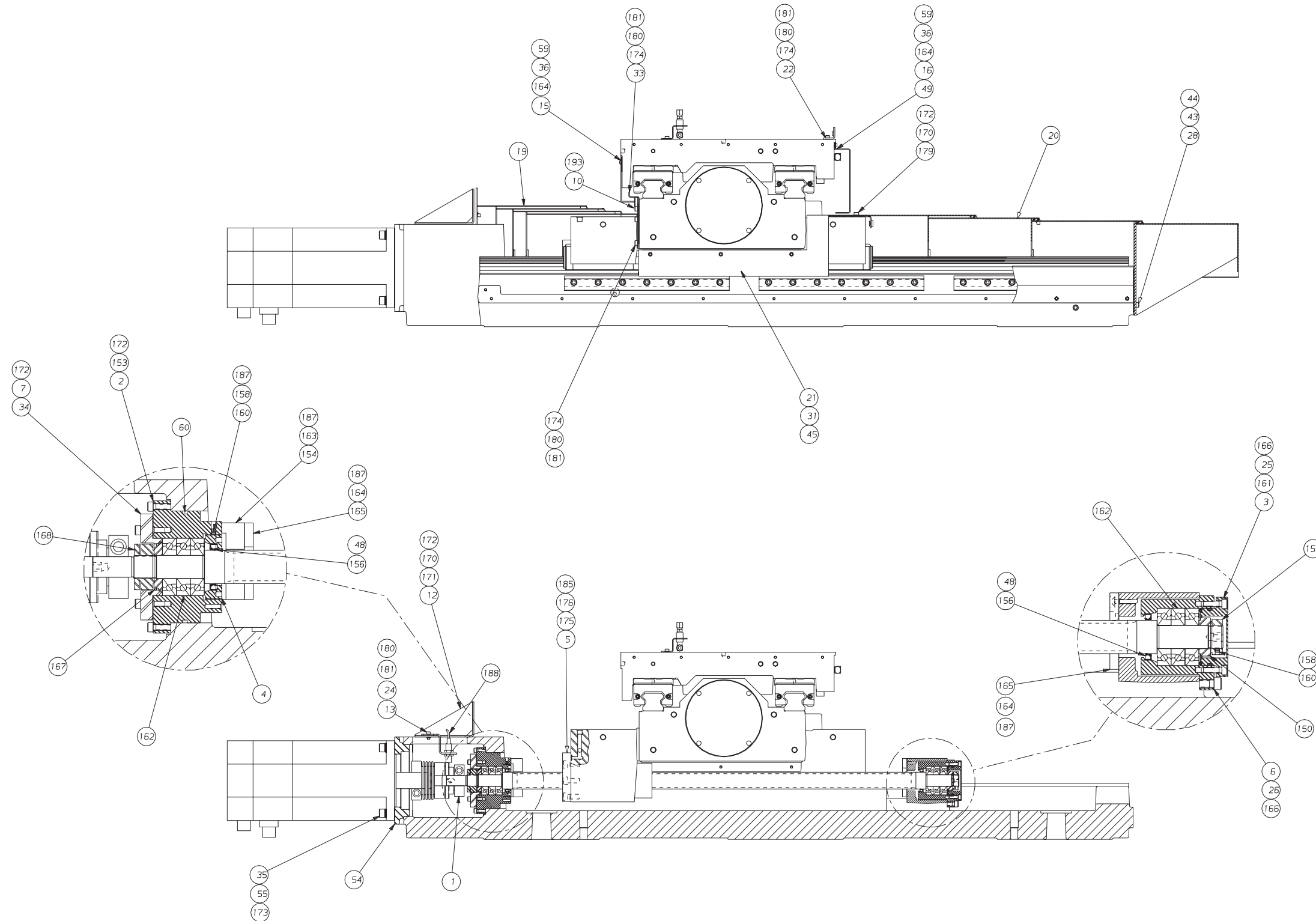
SHEET
4 of 5

32	NC-0010884-01	2	SEALANT
31	CL-0000262-LA	1	BED, RAM TURRET
30	MS-0303817	4	SCREW, MB BUTTON HEAD
29	CL-0004990-71	1	SHIELD, CHIP
28	CL-0000262-55	1	BED, SUB SPIN
27	CL-0010599	2	RISER BLOCK, TAILSTOCK
26	MS-0104220	3	M12 SCREW, SKHD CAP X 30M
25	MS-0554216	4	M12 SCREW, SOCKET SET-CUP
21	S-0010700-09	1	PLUG, LEE
18	CL-0009455	3	FOOT, BASE
17	CL-0009454	3	FOOT, FIXED-BASE
16	MS-0554217	2	SCREW, M12 SHCS
15	CLA-0010116-21	1	GASKET, RIGHT END
14	CL-0001990-94	1	BRACKET, RIGHT
13	MS-0303519	8	M5 SCREW, BUTTHD X 25MM
12	CL-0010116-20	1	RUBBER, LEFT
11	CL-0001990-93	1	BRACKET, LEFT
10	CL-0011932	1	SUPPORT, BALLSCREW
9	NC-0010884	8	SEALANT
8	MS-0104020	4	M10 SCREW, SKHD CAP X 30M
7	CS-0004630-03	2	DOWEL, 3/8 PULLOUT
6	CL-0000262-TA	1	BED ASSEMBLY, TAILSTOCK
5	GE-0010884	1	SEALANT
4	CL-0004629	2	PIN, DOWEL PULL-OUT
3	MS-0104625	18	M16 SCREW, SKHD CAP X 55M
2	LT-0010884-5	0	SEALANT
1	CLA-0000262	1	BED, CARRIAGE
ITEM	PART NUMBER	QTY	DESCRIPTION

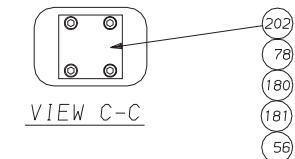
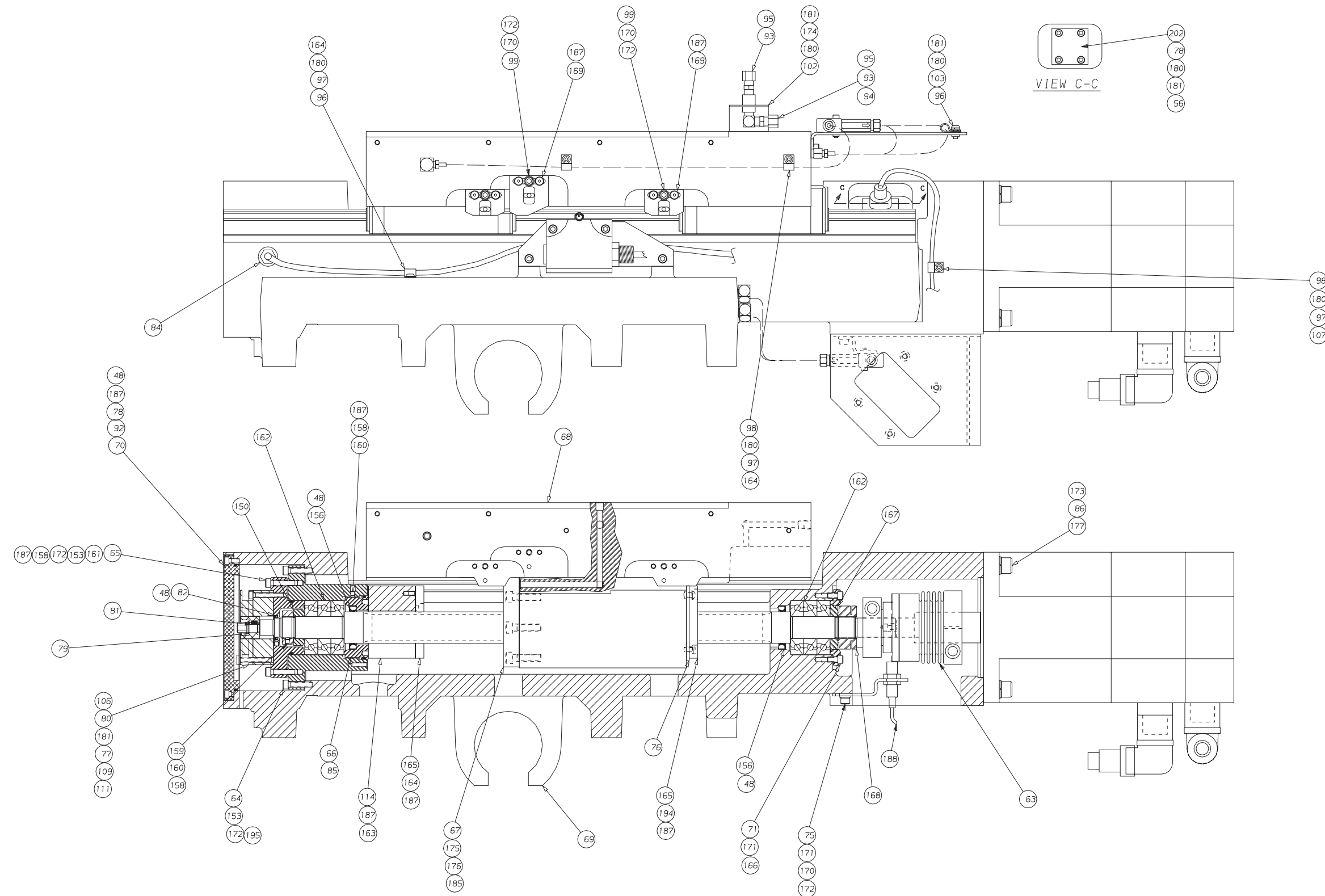
NAME
BASE ASSEMBLY

PART NUMBER
CLA-0000001
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Carriage and Cross Slide, Machine with Sub-Spindle or End-Working Turret

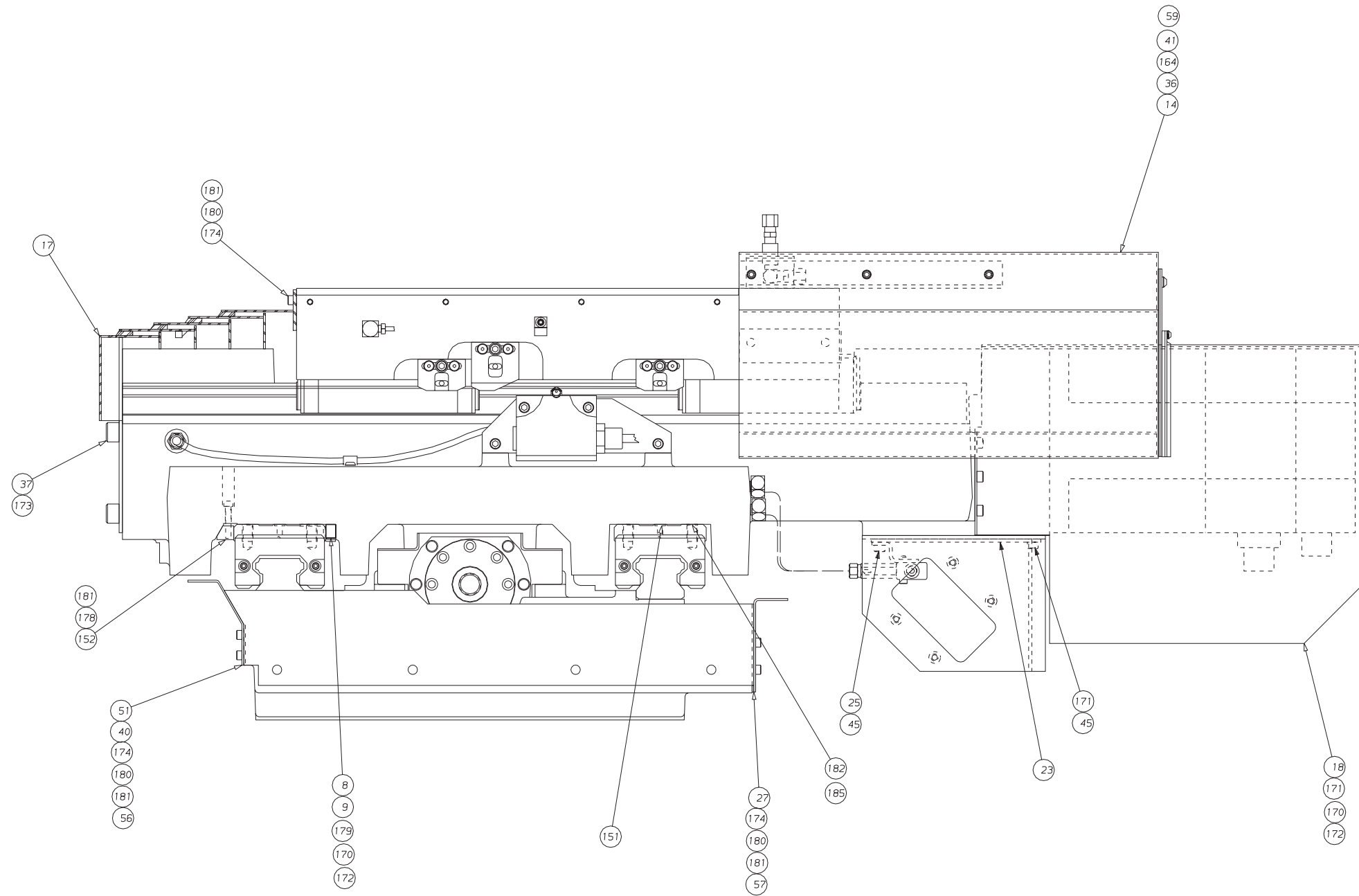


NAME Z-AXIS DRIVE ASSY (FRONT VIEW) PART NUMBER CLC000673055 SHEET 1 of 7

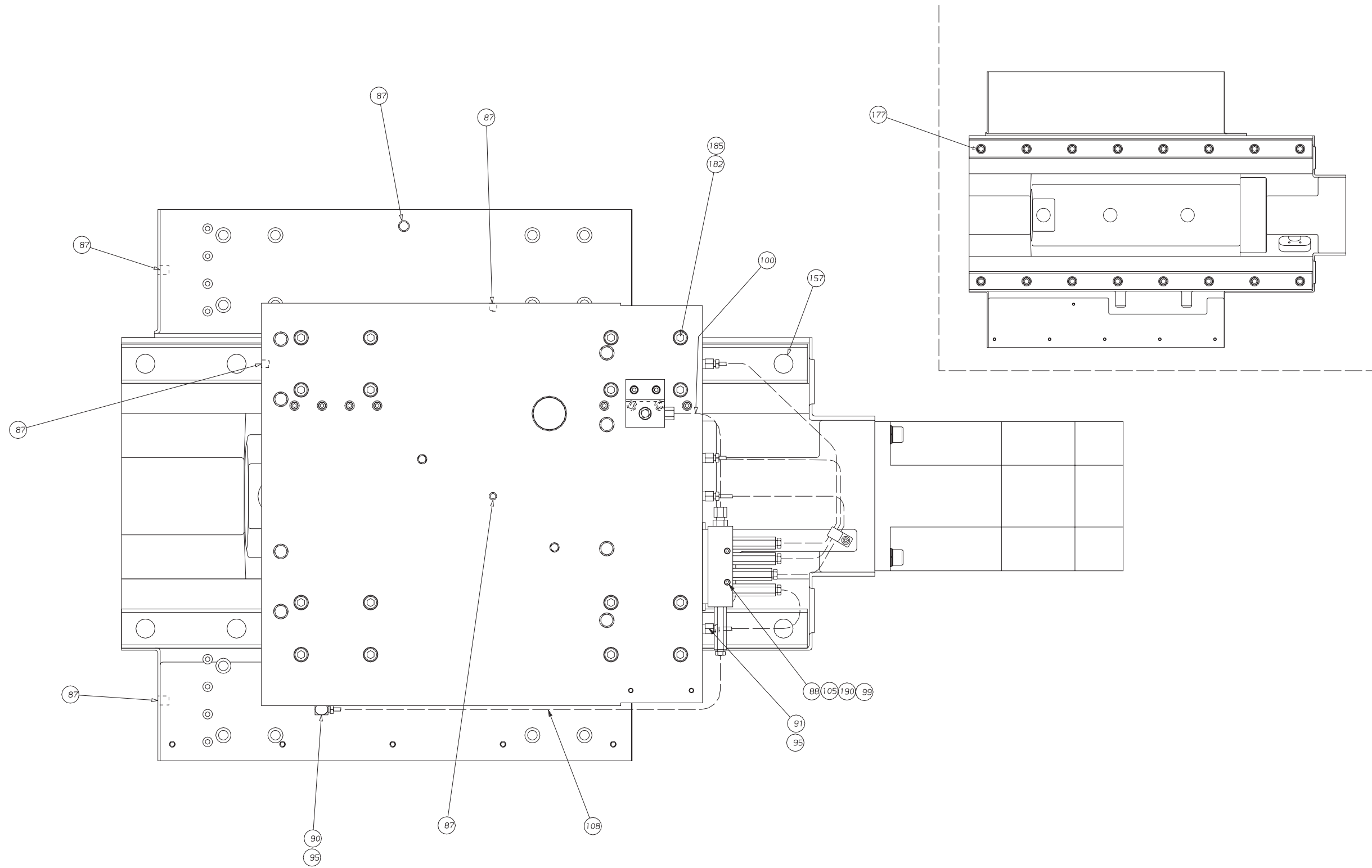


NAME: CARRIAGE - CROSS SLIDE ASSY.
 PART NUMBER: CLC000673055
 SHEET: 2 of 7

Carriage and Cross Slide, Machine with Sub-Spindle or End-Working Turret

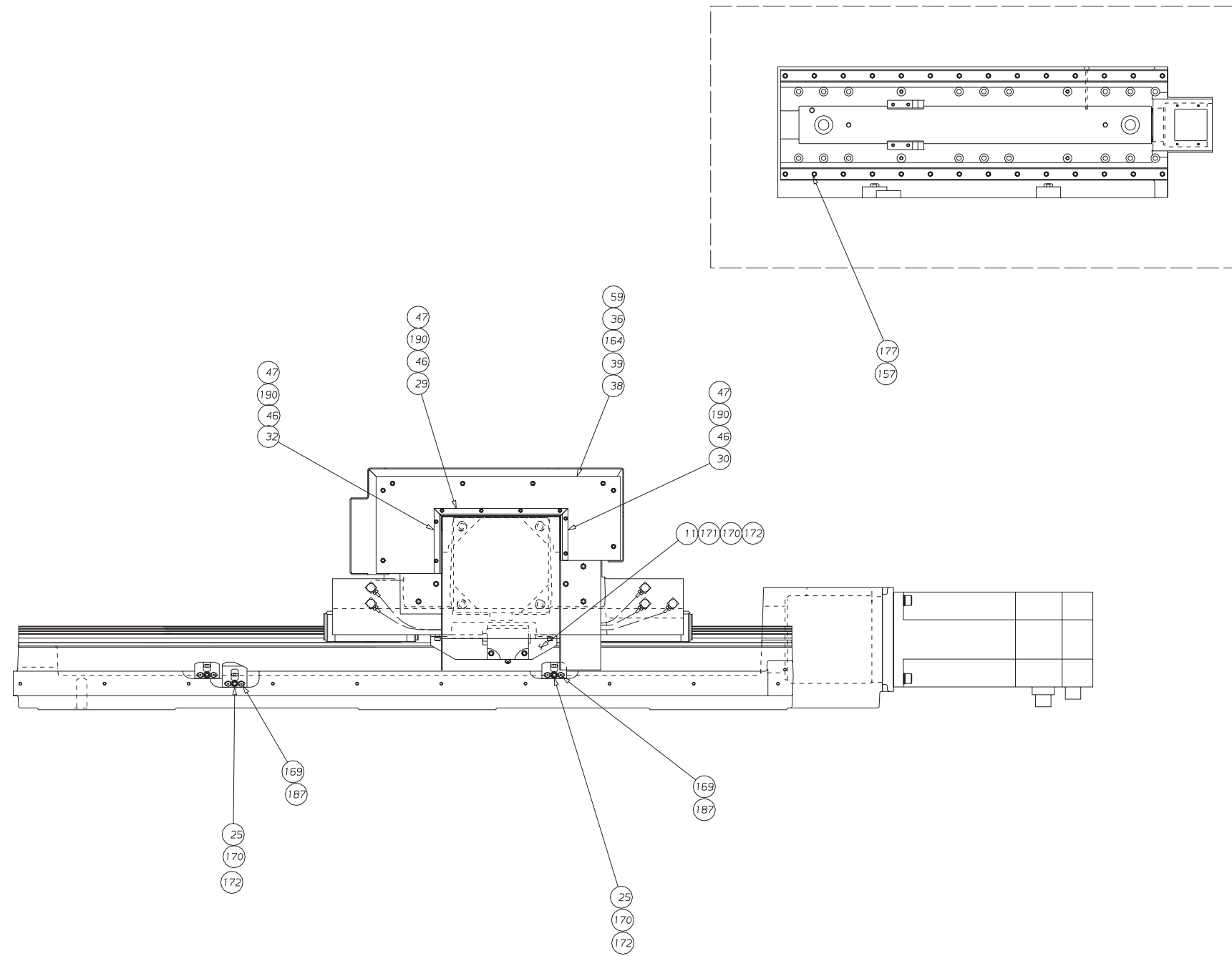


NAME Z - AXIS DRIVE ASSEMBLY (END VIEW) PART NUMBER CLC000673055 SHEET 3 of 7

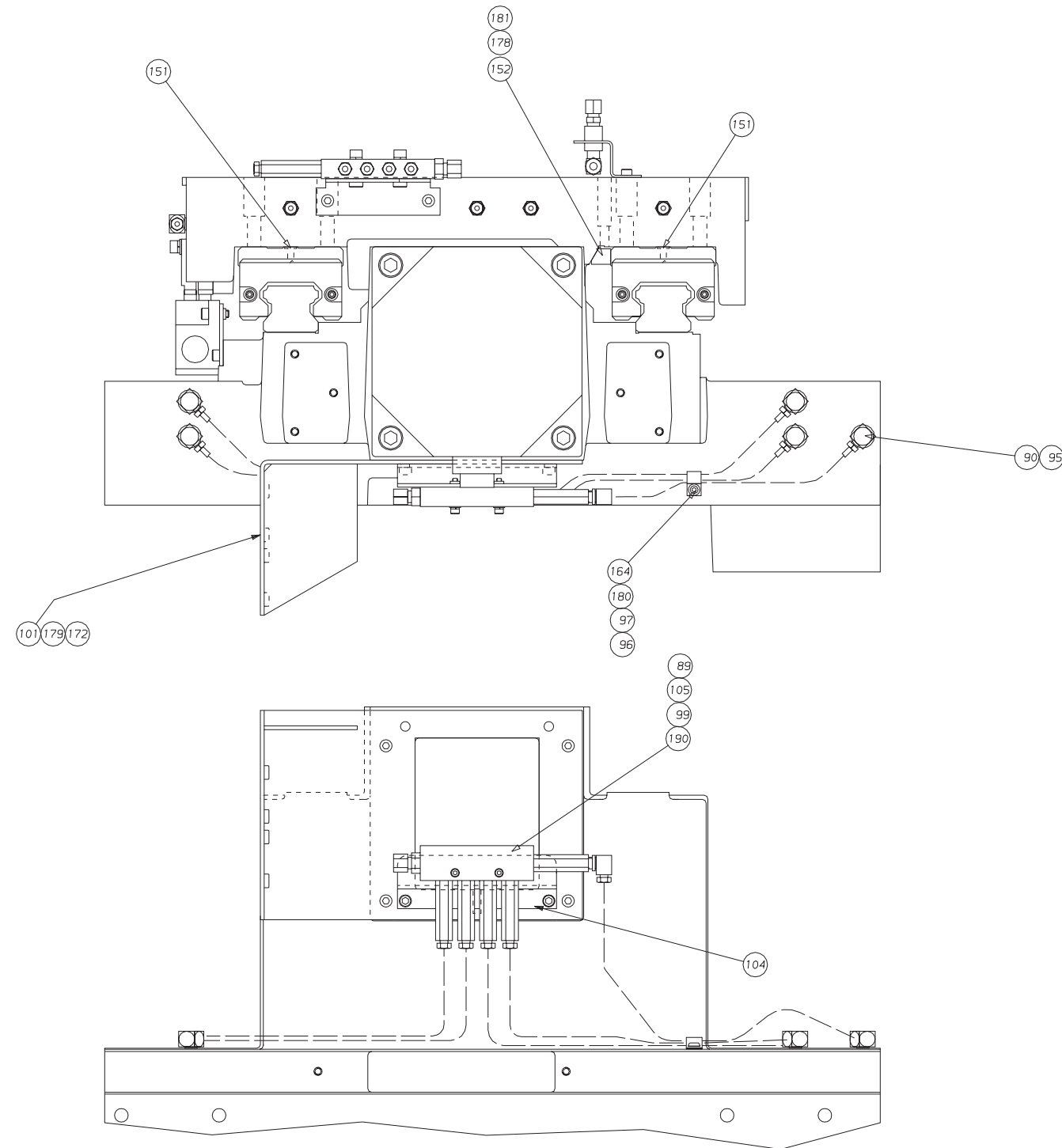


NAME
CARRIAGE - CROSS SLIDE ASSY.
PART NUMBER
CLC000673055
SHEET 4 of 7

Carriage and Cross Slide, Machine with Sub-Spindle or End-Working Turret

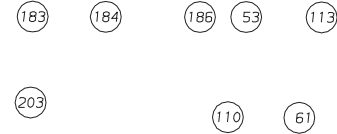


NAME Z - AXIS DRIVE ASSEMBLY (REAR VIEW) PART NUMBER CLC000673055 SHEET 5 of 7



NAME
CARRIAGE - CROSS SLIDE ASSY.
PART NUMBER
CLC000673055
SHEET 6 of 7

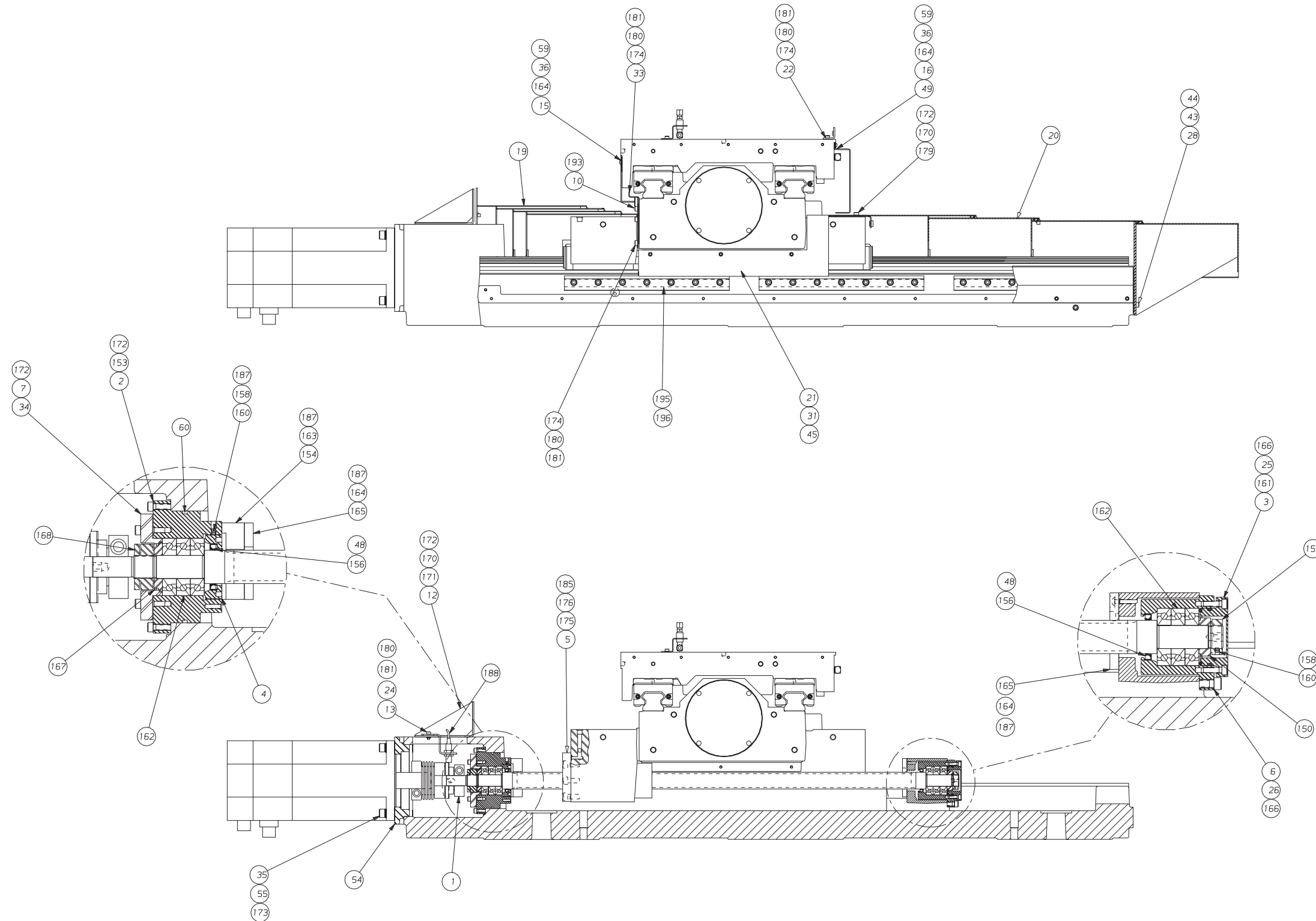
Carriage and Cross Slide, Machine with Sub-Spindle or End-Working Turret



203	MS 0575018	1	SCREW, M20 SET FLAT
202	CL 0010115 G	1	COVER, SWITCH OPENING
195	SG 0003346LA	1	GASKET, BEARING HOUSING
194	MS 0303514	7	SCREW, BUTTON HD SOC M5 X
193	MS 0313517	5	M5 SCREW, FHSS x 16mm
190	MW 0103410	12	WASHER, FLAT M4
188	SGA001022404	2	SWITCH, PROXIMITY
187	NC 001088401	.37	LOCTITE 222
186	CK 000918820	2	FERRULES, 20 AWG
185	MW 0194010	44	M10 WASHER, LOCK
184	LOA0002415	1	LAYOUT, CABLE MARKERS
183	F3 0009977	4	CODE MARKER F3
182	MS 0104022	32	SCREW, SOC HD M10 X 40MM
181	MW 0193510	64	M5 WASHER, LOCK
180	MW 0103510	50	M5 WASHER, FLAT
179	MS 0103616	11	M6 SCREW, SHCS x 12mm
178	MS 0103520	16	SCREW, SOC HD M5 X 30MM
177	MS 0104222	48	SCREW, SOC HD M12 X 40MM
176	MS 0104019	12	M10 SCREW, SHCS x 25mm
175	6 0009431	2	O-RING
174	MS 0103517	38	M5 SCREW, SHCS x 16mm
173	MW 0194210	12	WASHER, M12 LOCK
172	MW 0193610	61	M6 WASHER, LOCK
171	MS 0103617	22	M6 SCREW, SHCS x 16mm
170	MW 0103610	25	M6 WASHER, FLAT
169	MS 0496016	12	SHOULDER SCREW, SOC HD
168	CSA0000492	2	NUT, ADJUSTABLE SPIETH
167	CS 001119814	2	SEAL, LABYRINTH
166	NC 0010884	.08	LOCTITE 242
165	CSA0011976	4	BUMPER
164	MS 0303515	34	M5 SCREW, BHSS x 10mm
163	MS 0103519	4	M5 SCREW, SHCS x 25mm
162	CSA0004140	12	BEARING, BALL
161	CS 000943101	3	O-RING
ITEM	PART NUMBER	QTY	DESCRIPTION

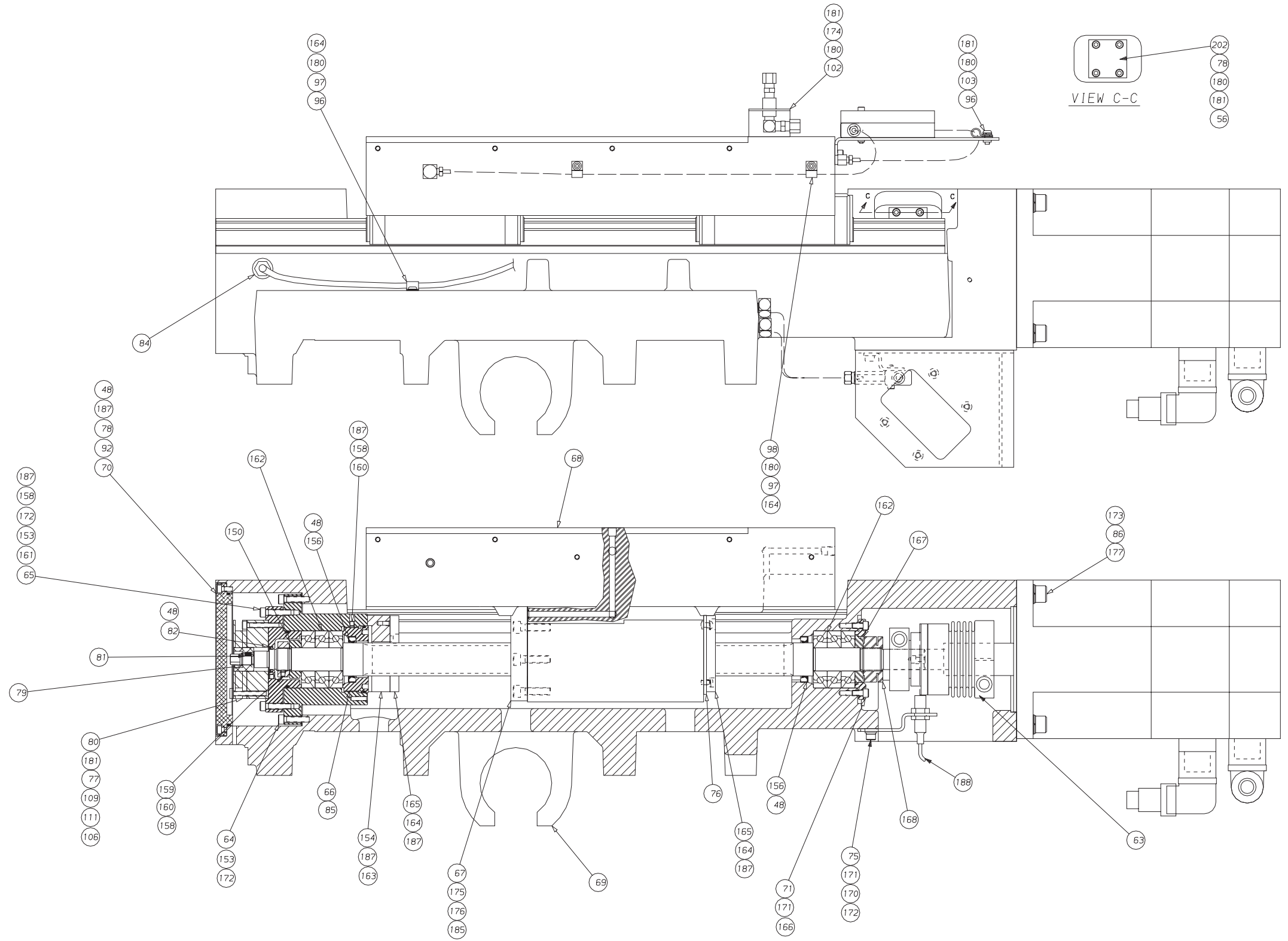
160	CH 0004732	4	PLUG, BRASS
159	CS 000026005	2	NUT, LOCK
158	MS 0553512	5	M5 SCREW, SHSS x 5mm
157	CL 0010331	44	PLUG, LINEAR GUIDE RAIL
156	CL 001119802	4	SEAL, BEARING
154	C5B001197602	1	STOP, Z AXIS (AFT)
153	MS 0103620	24	M6 SCREW, SHCS x 30mm
152	CL 0006481	4	GIB, TAKE UP
151	OR 0000406	8	O-RING
150	CL 001082801	2	SPACER
114	CL 001197655	1	STOP, Z-AXIS (AFT)
113	L0D0002413	1	LAYOUT, CABLES CS 51
111	18A000301103	26.5	CABLE-18GA-3 COND
110	LOA0002542	1	INSTRUCTIONS, CROSS SLIDE
109	NC 001047306	.33	HEAT SHRINKABLE TUBING
108	AH 0007007NF	1.375	TUBING 1/4IN O.D.
107	MS 0303517	1	SCREW, BH, M5 X 8 X 16MM
106	RAA000918821	2	BUTTSPLICE
105	MW 0193410	4	WASHER, LOCK M4
104	CLA001021513	1	BRACKET, LUBE BLOCK CARR
103	MS 0303516	1	SCREW, BUTTON HD SOC M5 X
102	CL 000299034	1	BRACKET, LUBE LINE
101	CLB001021511	1	BRACKET, GORE TUBE
100	HG 000700702	7	TUBING, 1/4 O.D.
99	MS 0103419	7	SCREW, SOC HD M4 X 25MM
98	CH 000962301	3	CLAMP, 1/4
97	MW 0183510	5	WASHER, LOCK
96	CH 000962302	3	CLAMP, 5/16
95	SB 0010884 5	.12	SEALANT, HYDRAULIC
94	CT 000770901	1	ELBOW
93	CL 001125908	2	STRAIGHT CONN.
92	OR 0008891	1	O-RING
91	HG 001125904	4	ADAPTER, STRAIGHT
90	HG 0011259	6	ADAPTER, ELBOW
89	CLA0010234 C	1	DISTRIBUTOR ASSY, CARRIAG
88	CLA0010234CS	1	DISTRIBUTOR ASSY, CROSS S
87	S 001070009	6	LEE PLUG
86	CL 000284001	4	WASHER, FLAT M12 HARDENED
85	OR 0004346	1	O-RING
84	CS 000920703	1	CORD GRIP, STR.
82	CS 000943102	1	SEAL
81	CS 0002022	1	KEY (BRAKE HUB)
80	CL 00104620301	1	BRAKE, X AXIS
79	CS 000823102	1	RING, RETAINING (BRAKE HUB)
78	MS 0103516	8	M5 SCREW, SHCS x 12mm
77	MS 0103521	3	SCREW, SOC HD M5 X 35MM
76	CL 000199023	1	MOUNT, X AXIS BUMPER
75	SG 001021508	1	BRACKET, X TORQUE LIMIT S
71	CSA0011137	1	RETAINER, BEARING
70	CL 001011509	1	COVER, X BRAKE
69	CL 0000371	1	CARRIAGE
68	CL 000720201	1	CROSS SLIDE
67	CL 000190201	1	BALL SCREW, X-AXIS
66	CL 000179902	1	NUT, BEARING
65	CL 0011137	1	RETAINER, BEARING
64	CL 0011176	1	HOUSING, BEARING
63	VL 001212801	1	TORQUE LIMITER, X AXIS
ITEM	PART NUMBER	QTY	DESCRIPTION

61	L0 0002543	1	INSTRUCTIONS, CARRIAGE AS
60	OR 0007278	1	SEALS
59	3 001088401	.04	ADHESIVE
57	CL 001119810	1	LABYRINTH, REAR Z WAY COVE
56	GE 0010884	.02	SILICONE
55	MW 0104210	4	WASHER, M12 FLAT
54	CSB001042101	1	PLATE, MOTOR MOUNT Z AXIS
53	HLA0010523	5	WAY OIL
51	CL 001119805	1	LABRYINTH
49	CL 001011603	1	GASKET
48	CS 0010994	5.999999999999999	BEARING
47	MW 0183410	8	WASHER, LOCK M4
46	MS 0303416	8	SCREW, BUTT HD M4 X 12MM
45	MW 0263610	7	M6 WASHER, STAR
44	MW 0193810	4	M8 WASHER, LOCK
43	MW 0103810	4	M8 WASHER, FLAT
41	CL 001011622	1	GASKET
40	CL 001011606	1	GASKET
39	CL 001011604	1	GASKET, WIPER COVER
38	CL 001011513	1	COVER, X MOTOR WIPER
37	MS 0104218	4	SCREW, SOC HD M12 X 20
36	MW 0263510	21	M5 WASHER, STAR
35	MS 0104226	4	M12 SCREW, SHCS x 60mm
34	CL 001113701	1	RETAINER, BEARING
33	CLA001119803	1	LABYRITH, X WAY COVER
32	CL 000805002	1	WIPER
31	MS 0303616	3	M6 SCREW, BHSS x 12mm
30	CL 000805001	1	WIPER
29	CL 0008050	1	WIPER
28	MS 0103817	4	M8 SCREW, SHCS x 16mm
27	CLA001119801	1	LABRYINTH, REAR Z WAY COV
26	MS 0103820	6	M8 SCREW, SHCS x 30mm
25	MS 0103618	9	M6 SCREW, SHCS x 20mm
24	MS 0103515	2	M5 SCREW, SHCS x 10mm
23	CLA001011510	1	COVER, X TORQUE LIMITER
22	CL 0010215	1	BRACKET, C.S. REAR COVER
21	CL 001011507	1	COVER, CARRIAGE FRONT
20	CL 00101152R	1	COVER, Z WAY REAR
19	CL 0010115ZF	1	COVER, WAY Z FRONT
18	CL 001011506	1	COVER, X MOTER
17	CL 0010115X5S	1	WAY COVER, X AXIS
16	CL 001011505	1	COVER, C.S LIMIT SWITCH
15	CL 001011605	1	GASKET
14	CL 00101155S	1	COVER, C. S. REAR
13	CLA001021506	1	BRACKET, Z TORQUE LIMITER
12	CLA001021505	1	BRACE, HEADWALL & Z WAY C
11	CL 001021501	1	BRACKET, Z LIMIT SWITCH
10	CL 0011841	1	BAR, MOUNTING
9	CL 0011083	1	RETAINER, TRAM SHIM
8	CL 001108301	1	SHIM, TRAM
7	MS 0103619	8	M6 SCREW, SHCS x 25mm
6	CL 001117602	1	HOUSING, BEARING
5	CL 0001902	1	BALL SCREW, Z AXIS
4	CL 0001799	1	NUT, BEARING
3	CL 00111370201	1	RETAINER, BEARING
2	CLA001117601	1	HOUSING, BEARING
1	VL 0012128	1	TORQUE LIMITER, Z AXIS
ITEM	PART NUMBER	QTY	DESCRIPTION

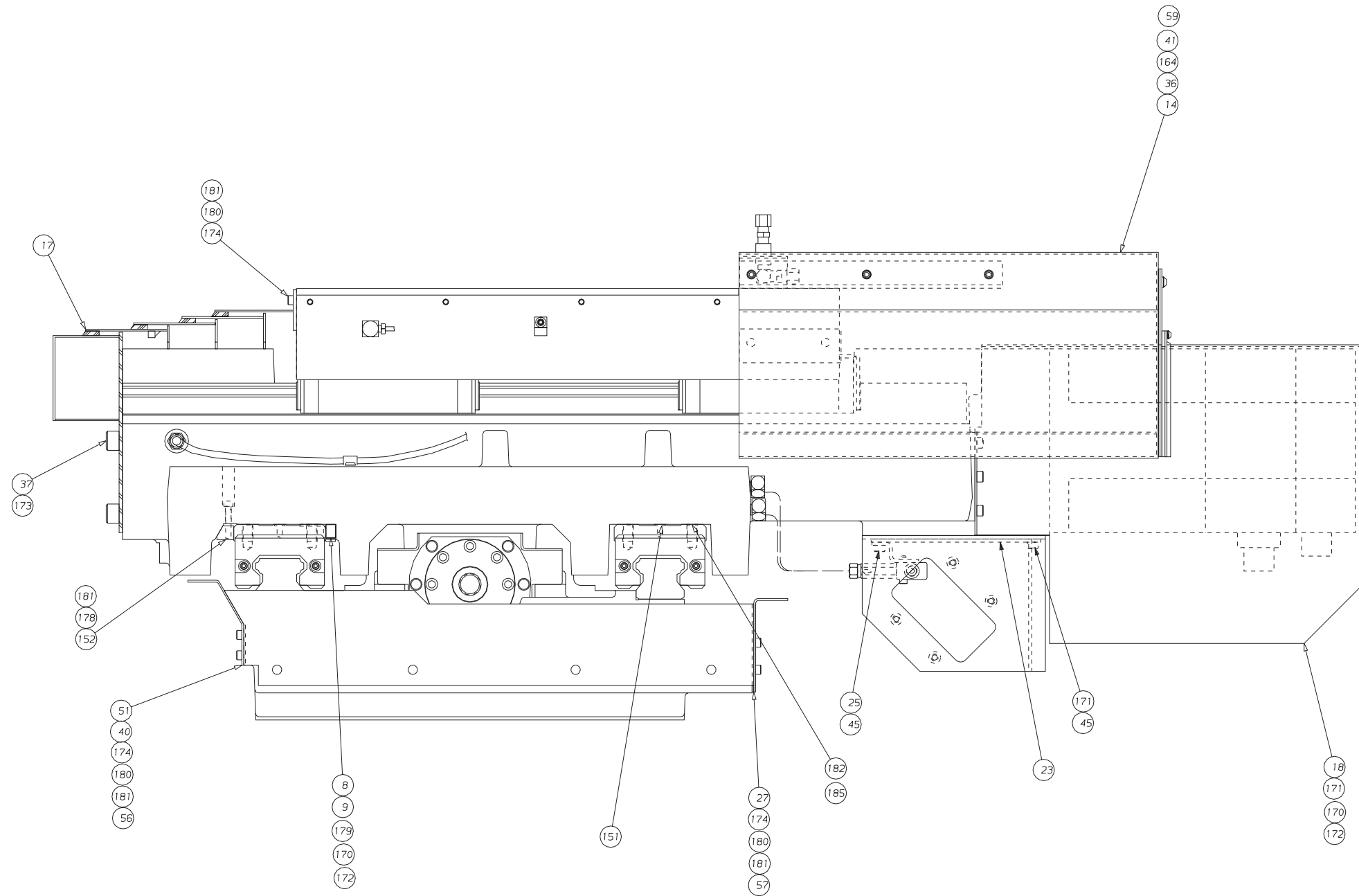


NAME Z-AXIS DRIVE ASSY (FRONT VIEW) PART NUMBER CLF0006730 SHEET 1 of 7

Carriage and Cross Slide, Machine without Sub-Spindle or End-Working Turret

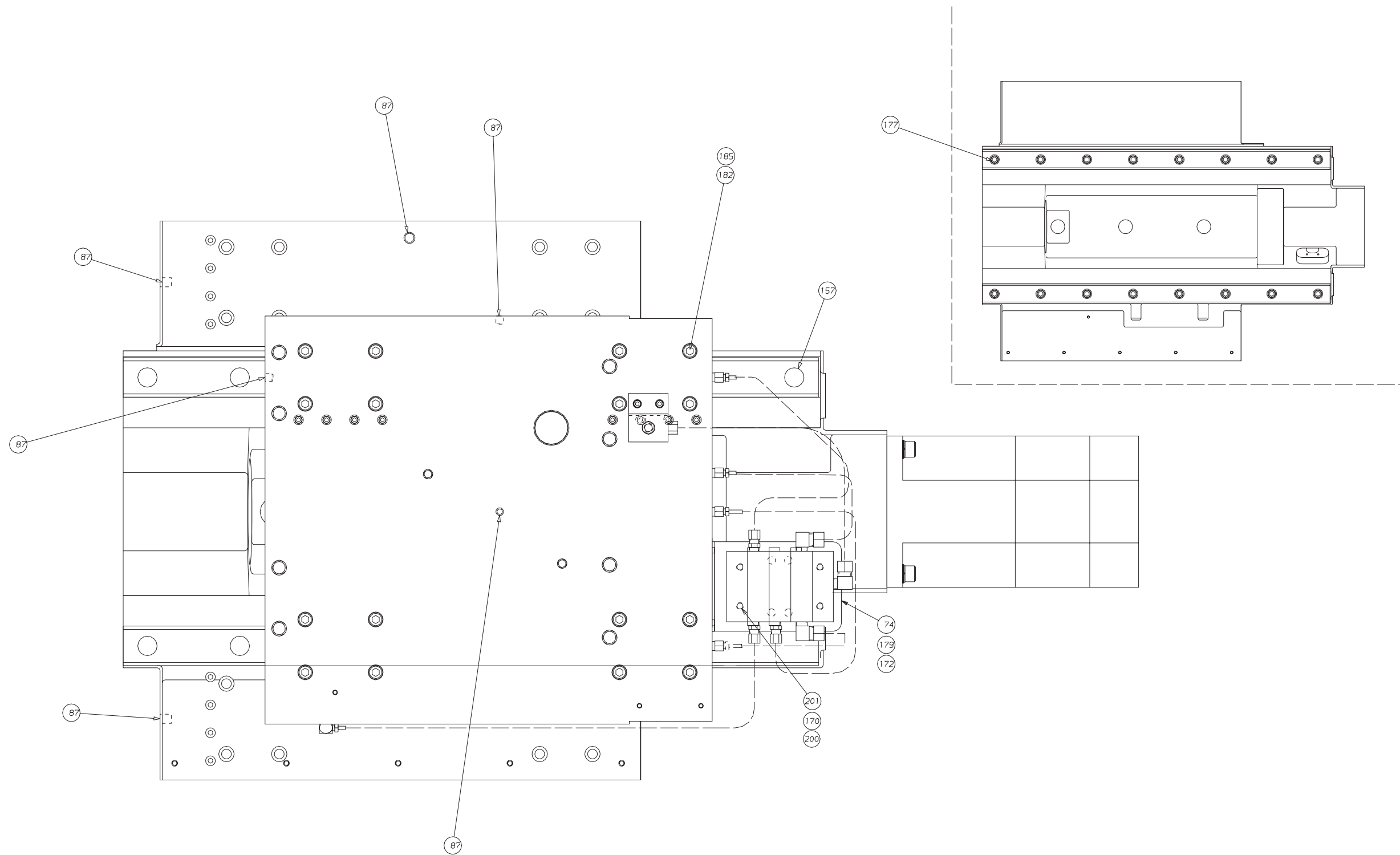


NAME
CARRIAGE - CROSS SLIDE ASSY.
PART NUMBER
CLF0006730
SHEET
2 of 7



NAME Z-AXIS DRIVE ASSY (END VIEW) PART NUMBER CLF0006730 SHEET 3 of 7

Carriage and Cross Slide, Machine without Sub-Spindle or End-Working Turret

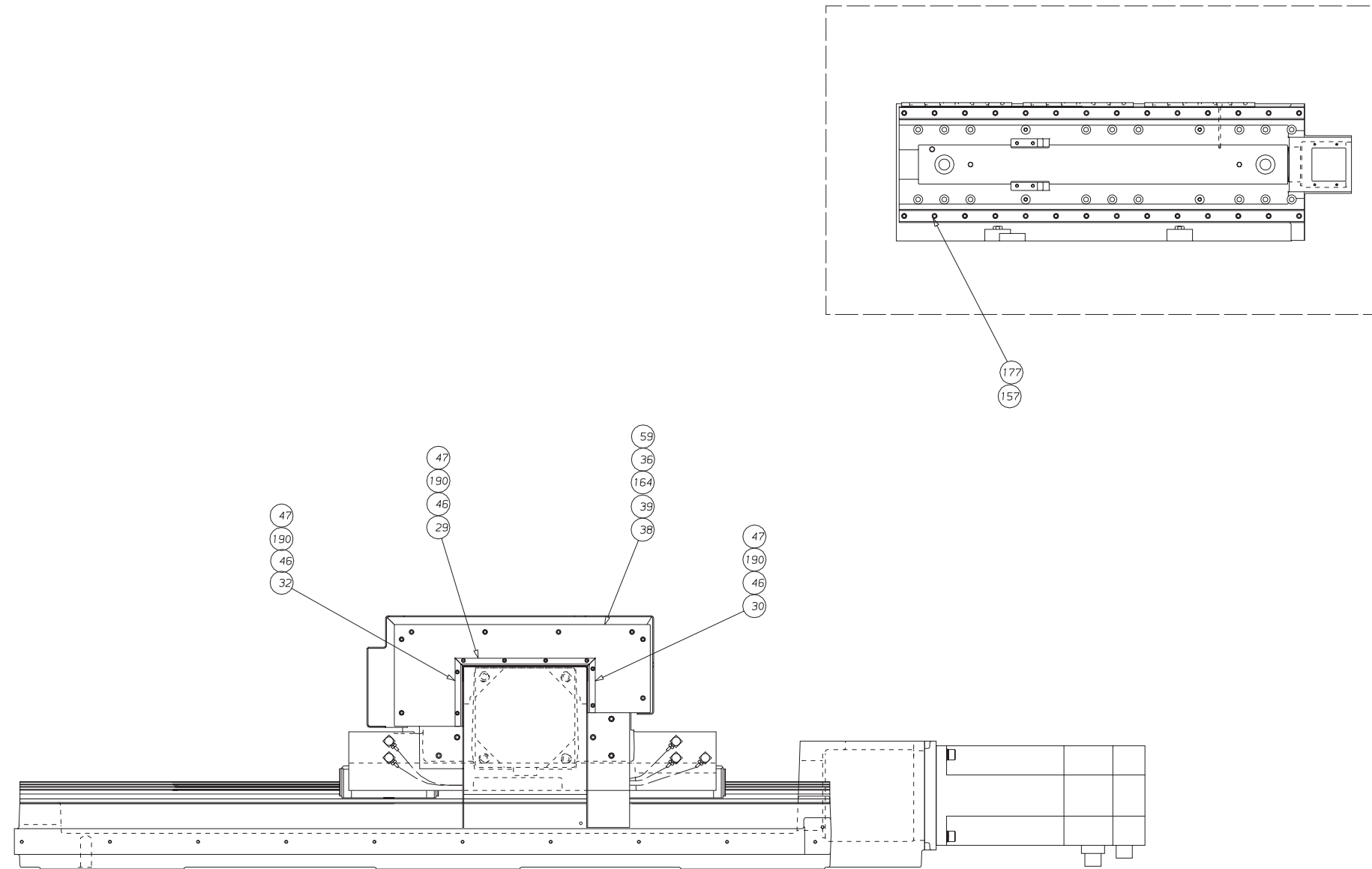


NAME
CARRIAGE - CROSS SLIDE ASSY.

PART NUMBER
CLF0006730

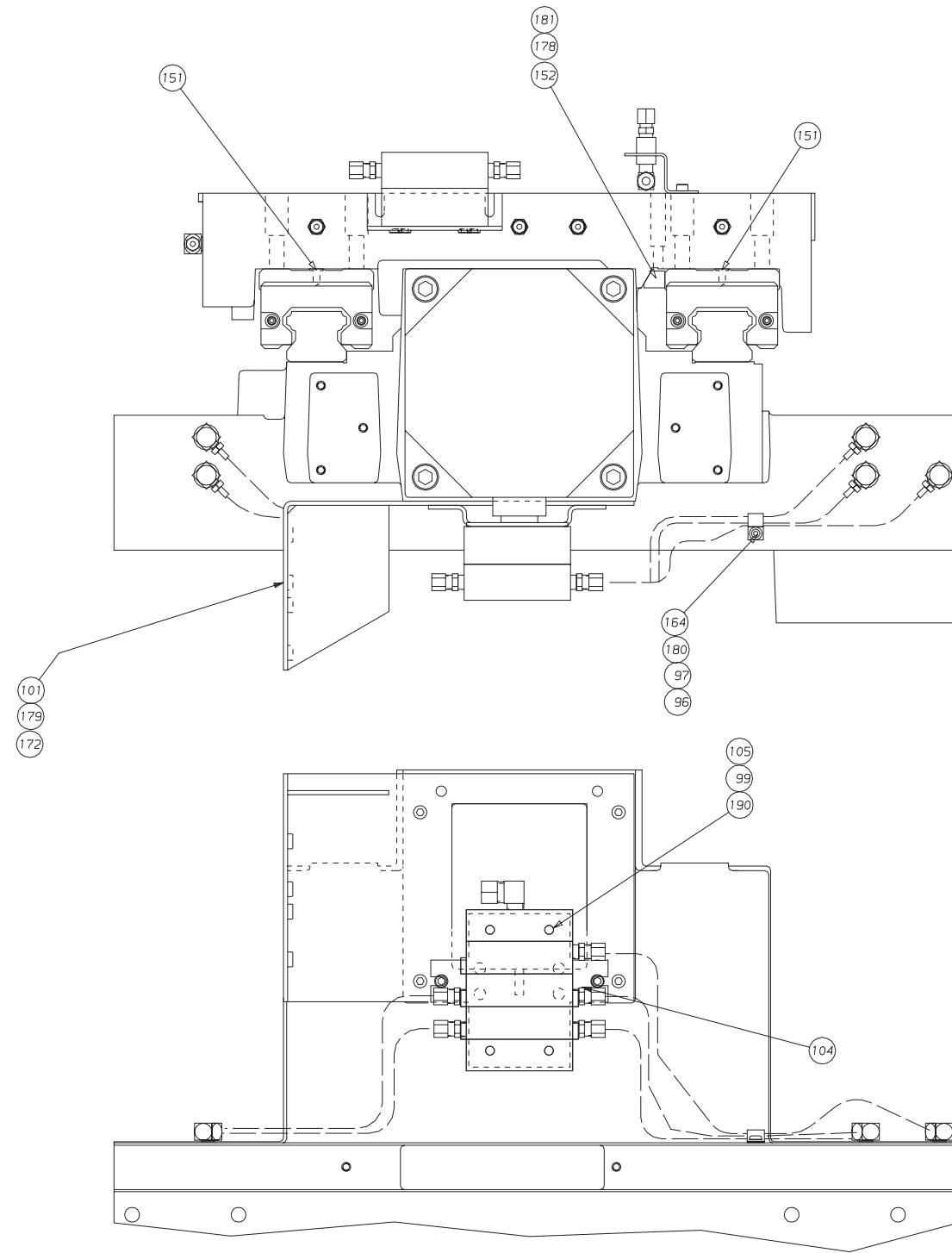
SHEET
4 of 7

Carriage and Cross Slide, Machine without Sub-Spindle or End-Working Turret



NAME Z-AXIS DRIVE ASSY (REAR VIEW) PART NUMBER CLF0006730 SHEET 5 of 7

Carriage and Cross Slide, Machine without Sub-Spindle or End-Working Turret



NAME
CARRIAGE - CROSS SLIDE ASSY.
PART NUMBER
CLF0006730
SHEET
6 of 7

Carriage and Cross Slide, Machine without Sub-Spindle or End-Working Turret

204	MS 0575018	1	SCREW, M20 SET FLAT
203	LO 0003365	1	NOTES X,Z, AND L DRIVES
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	21	M8 SCREW, SHCS x 20mm
195	SG 0006481C1	3	CLAMP, LINEAR GUIDE
193	MS 0313517	5	M5 SCREW, FHSS x 16mm
190	MW 0103410	10	M4 WASHER, FLAT
188	SGA001022404	2	SWITCH, PROXIMITY
187	NC 001088401	.28	LOCTITE 222
186	CK 000918820	2	FERRULES, 20 AWG
185	MW 0194010	44	M10 WASHER, LOCK
184	LOA0002415	1	LAYOUT, CABLE MARKERS
183	F3 0009977	4	CODE MARKER F3
182	MS 0104022	32	M10 SCREW, SHCS x 40mm
181	MW 0193510	64	M5 WASHER, LOCK
180	MW 0103510	49	M5 WASHER, FLAT
179	MS 0103616	13	M6 SCREW, SHCS x 12mm
178	MS 0103520	16	M5 SCREW, SHCS x 30mm
177	MS 0104222	48	M12 SCREW, SHCS x 40mm
176	MS 0104019	12	M10 SCREW, SHCS x 25mm
175	6 0009431	2	O-RING
174	MS 0103517	38	M5 SCREW, SHCS x 16mm
ITEM	PART NUMBER	QTY	DESCRIPTION

173	MW 0194210	12	WASHER, M12 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	CSA0000492	2	NUT, ADJUSTABLE SPIETH
167	CS 001119814	2	SEAL, LABYRINTH
166	NC 0010884	.08	LOCTITE 242
165	CSA0011976	4	BUMPER
164	MS 0303515	41	M5 SCREW, BHSS x 10mm
163	MS 0103519	4	M5 SCREW, SHCS x 25mm
162	CSA0004140	12	BEARING, BALL
161	CS 000943101	3	O-RING
160	CH 0004732	4	PLUG, BRASS
159	CS 000026005	2	NUT, LOCK
158	MS 0553512	5	M5 SCREW, SHSS x 5mm
157	CL 0010331	44	PLUG, LINEAR GUIDE RAIL
156	CL 001119802	4	SEAL, BEARING
154	CSB001197602	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 001082801	2	SPACER
111	18A000301103	53	CABLE-18GA-3 COND
110	LOA0002542	1	INSTR, CROSS SLIDE ASSY C
109	NC 001047306	.33	HEAT SHRINKABLE TUBING
106	RAA000918821	2	BUTTSPLICE
105	MW 0193410	2	M4 WASHER, LOCK
104	CL 000399085	1	BRACKET, LUBE BLOCK CARR
103	MS 0303516	1	M5 SCREW, BHSS x 12mm
102	CL 000299034	1	BRACKET, LUBE LINE
101	CLB001021511	1	BRACKET, GORE TUBE
99	MS 0103419	2	M4 SCREW, SHCS x 25mm
98	CH 000962301	2	CLAMP, 1/4
97	MW 0183510	4	M5 SCREW, SHCS x 12mm
96	CH 000962302	3	CLAMP, 5/16
92	OR 0008891	1	O-RING
87	S 001070009	6	LEE PLUG
86	CL 000284001	4	M12 WASHER, FLAT HARDENED
85	OR 0004346	1	O-RING
84	CS 000920703	1	CORD GRIP, STR.
82	CS 000943102	1	SEAL
81	CS 0002022	1	KEY (BRAKE HUB)
80	CL 00104620301	1	BRAKE, X AXIS
79	CS 000823102	1	RING, RETAINING (BRAKE HUB)
78	MS 0103516	8	M5 SCREW, SHCS x 12mm
77	MS 0103521	3	M5 SCREW, SHCS x 35mm
76	CL 000199023	1	MOUNT, X AXIS BUMPER
75	SG 001021508	1	BRACKET, X TORQUE LIMIT S
74	CL 000399084	1	BRACKET, CROSS SLIDE LUBE
71	CSA0011137	1	RETAINER, BEARING
70	CL 001011509	1	COVER, X BRAKE
69	CL 0000371	1	CARRIAGE
68	CLA0007202	1	CROSS SLIDE
67	CL 000190201	1	BALL SCREW, X-AXIS
66	CL 000179902	1	NUT, BEARING
65	CL 0011137	1	RETAINER, BEARING
64	CL 0011176	1	HOUSING, BEARING
ITEM	PART NUMBER	QTY	DESCRIPTION

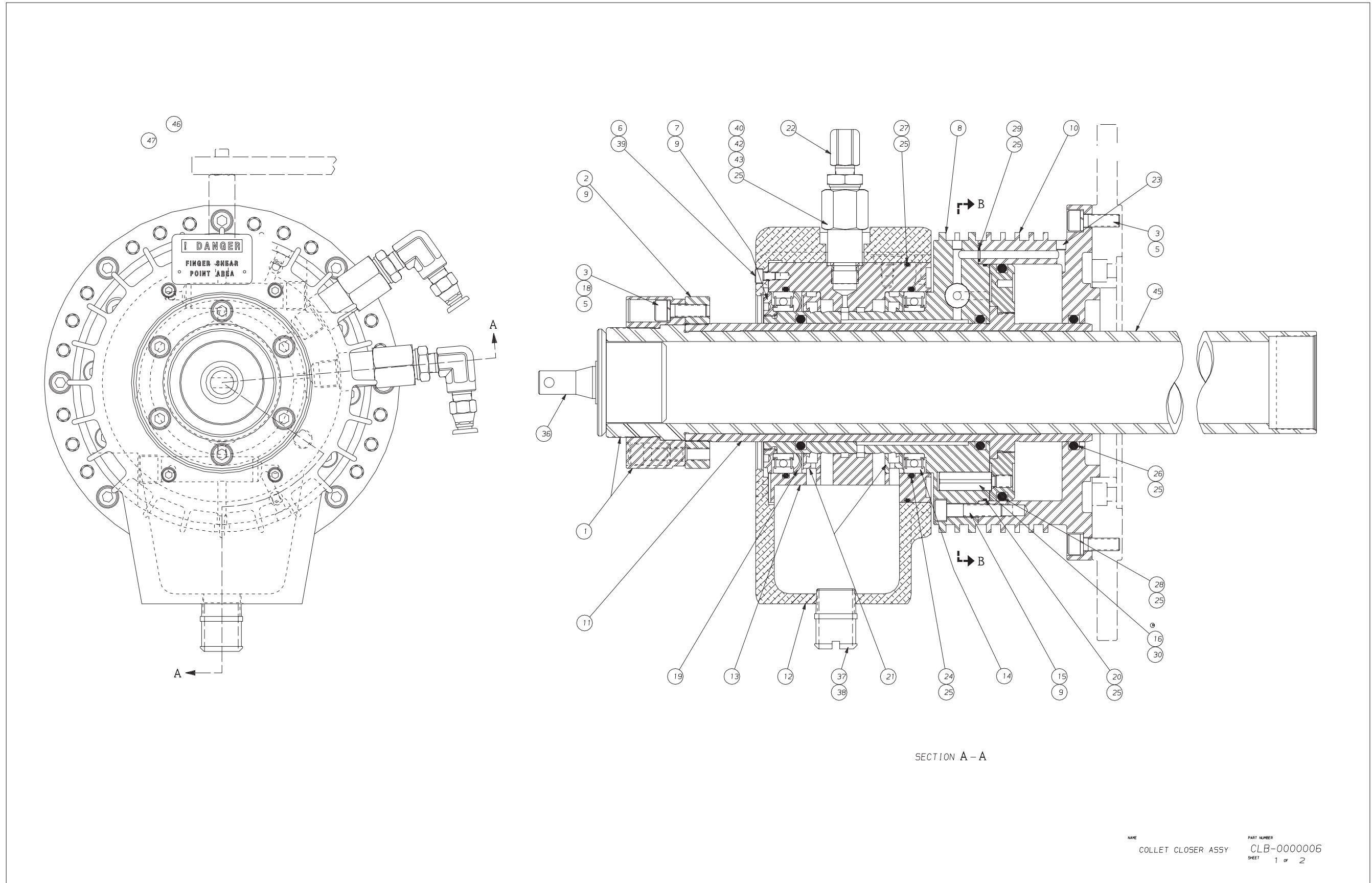
63	VL 001212801	1	TORQUE LIMITER, X AXIS
61	LO 0002543	1	INSTRUCTIONS, CARR. ASSY.
60	OR 0007278	1	SEALS
59	3 001088401	.04	ADHESIVE
57	CL 001119810	1	LABYRINTH, REAR Z WAY COVE
56	GE 0010884	.02	SILICONE
55	MW 0104210	4	WASHER, M12 FLAT
54	CSB001042101	1	PLATE, MOTOR MOUNT Z AXIS
53	HLA0010523	5	WAY OIL
51	CL 001119805	1	LABRYINTH
49	CL 001011603	1	GASKET
48	CS 0010994	5.999999999	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
41	CL 001011622	1	GASKET
40	CL 001011606	1	GASKET
39	CL 001011604	1	GASKET, WIPER COVER
38	CL 001011513	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 001113701	1	RETAINER, BEARING
33	CLA001119803	1	LABYRINTH, X WAY COVER
32	CL 000805002	1	WIPER
31	MS 0303616	3	M6 SCREW, BHSS x 12mm
30	CL 000805001	1	WIPER
29	CL 0008050	1	WIPER
28	MS 0103817	4	M8 SCREW, SHCS x 16mm
27	CLA001119801	1	LABRYINTH, REAR Z WAY COV
26	MS 0103820	6	M8 SCREW, SHCS x 30mm
25	MS 0103618	6	M6 SCREW, SHCS x 20mm
24	MS 0103515	2	M5 SCREW, SHCS x 10mm
23	CLA001011510	1	COVER, X TORQUE LIMITER
22	CL 0010215	1	BRACKET, C.S. REAR COVER
21	CL 001011507	1	COVER, CARRIAGE FRONT
20	CL 0010115ZR	1	COVER, Z WAY REAR
19	CL 0010115ZF	1	COVER, WAY Z FRONT
18	CL 001011506	1	COVER, X MOTER
17	CL 0010115XA	1	WAY COVER, X AXIS
16	CL 001011505	1	COVER, C.S LIMIT SWITCH
15	CL 001011605	1	GASKET
14	CL 001011504	1	COVER, C. S. REAR
13	CLA001021506	1	BRACKET, Z TORQUE LIMITER
12	CLA001021505	1	BRACE, HEADWALL & Z WAY C
10	CL 0011841	1	BAR, MOUNTING
9	CL 0011083	1	RETAINER, TRAM SHIM
8	CL 001108301	1	SHIM, TRAM
7	MS 0103619	8	M6 SCREW, SHCS x 25mm
6	CL 001117602	1	HOUSING, BEARING
5	CL 0001902	1	BALL SCREW, Z AXIS
4	CL 0001799	1	NUT, BEARING
3	CL 00111370201	1	RETAINER, BEARING
2	CLA001117601	1	HOUSING, BEARING
1	VL 0012128	1	TORQUE LIMITER, Z AXIS
ITEM	PART NUMBER	QTY	DESCRIPTION

53 183 184 186 203 204

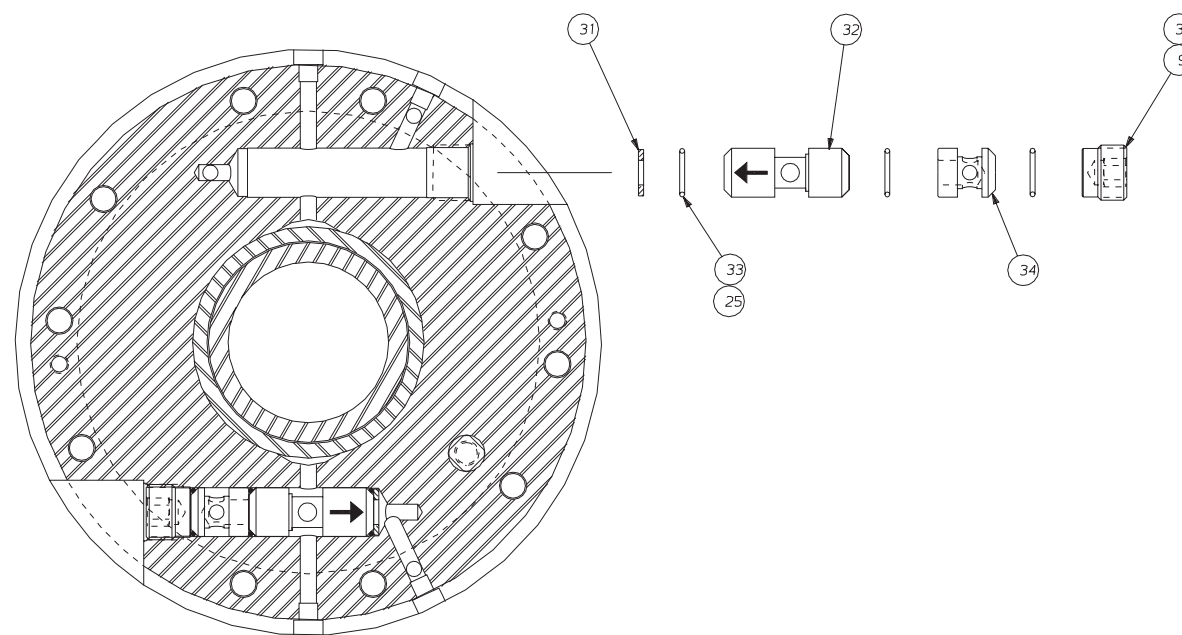
61 110

NAME
CARRIAGE - CROSS SLIDE ASSY.
PART NUMBER
CLF0006730
SHEET 7 of 7

Collet Closer Assembly



NAME COLLET CLOSER ASSY PART NUMBER CLB-0000006
SHEET 1 of 2



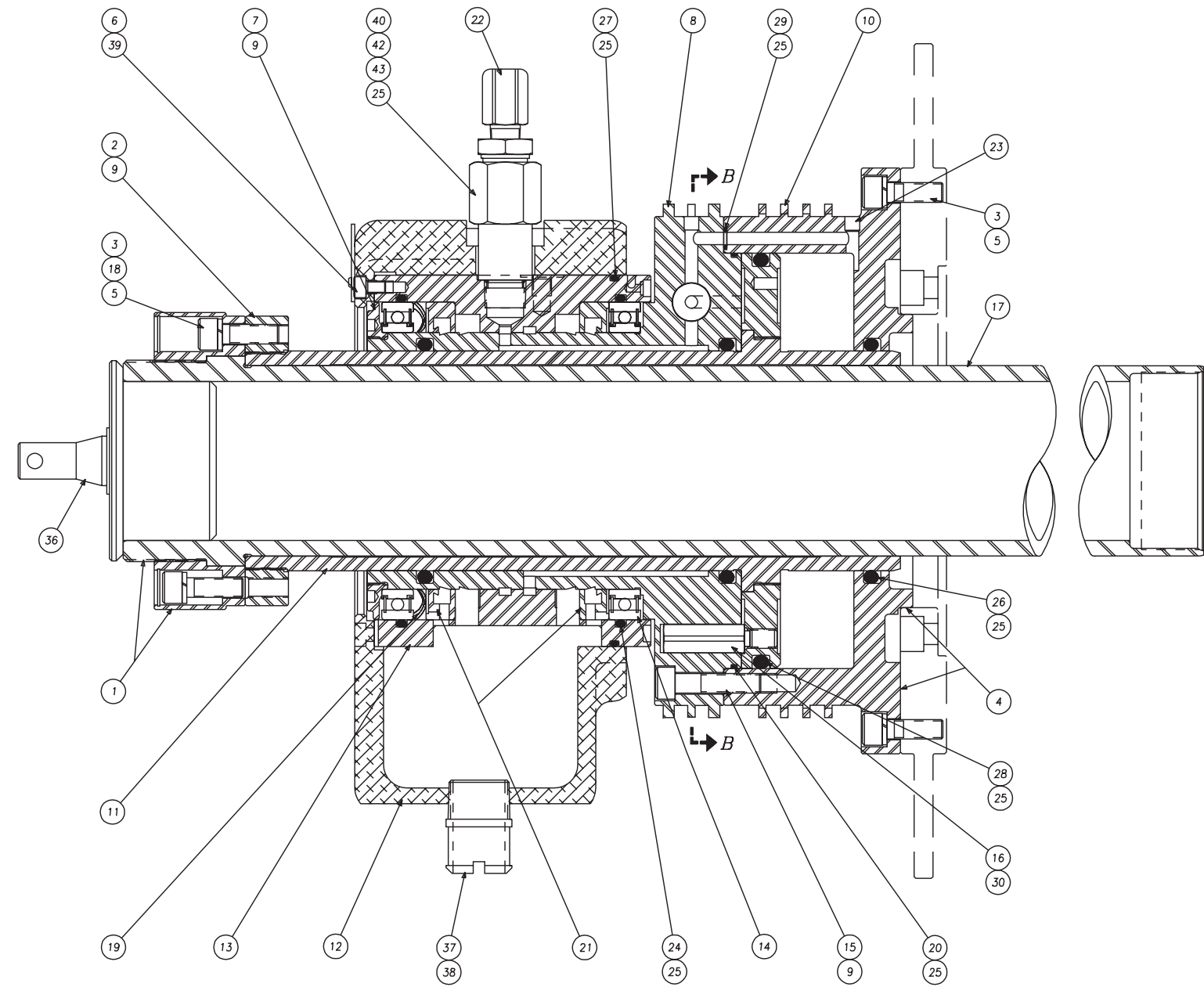
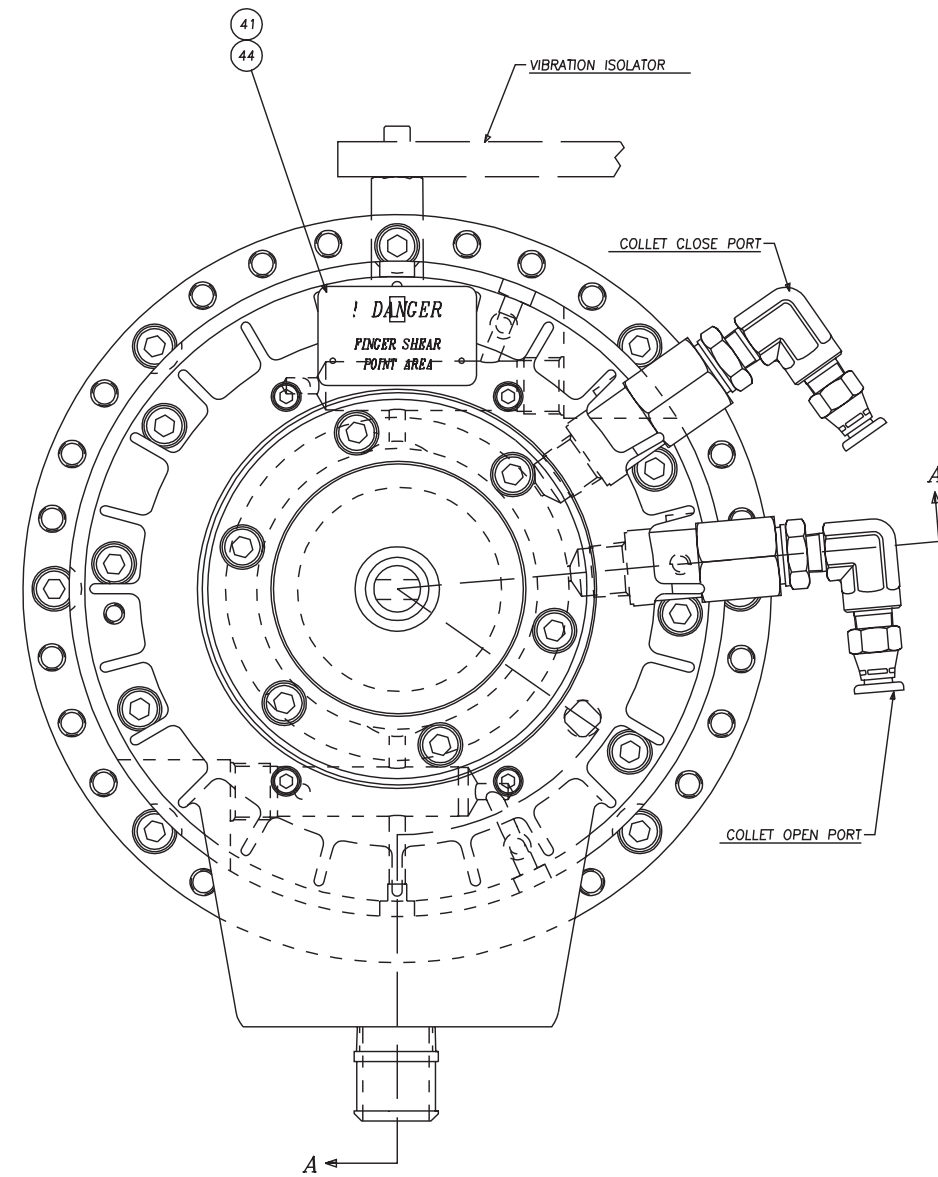
SECTION B-B

46

48	LO-0002557	1	INST. COLLET CLOSER
47	R -0008044	2	PIN, ESCUTCHEON
46	CLB-0010302-04	1	TAG, DANGER-FINGER SHEAR
45	C5-0010994	.05	MOBILE 28 GREASE
43	11-0009431	2	O-RING
42	C5-0010421-02	2	RING FOR ADAPTER
40	C5-0011259-13	2	CONNECTOR, HYD. (METRIC)
39	NC-0010884-01	.1	ADHESIVE, LOCTITE #222
38	SB-0010884-5	.01	HYDRAULIC SEALANT
37	C5-0003504-02	1	CONNECTOR, 3/4-14 NPT
36	CL-0011973-01	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-0009431-03	1	O-RING
27	C5-0009431-29	1	O-RING
26	CL-0009431-01	3	O-RING
25	RF-0010994	.13	M55 GREASE
24	OR-0007276-V	2	O-RING
23	CL-0007703	6	PLUG, LEE
22	C5-0011259-11	2	FITTING, ELBOW
21	CL-0007852	2	RING, SEALING
20	CL-0009431-05	1	O-RING
19	CL-0007335	1	SPRING, WAVE
18	56-0008231-01	6	RING, RETAINING
16	CL-0011143-01	1	PIN
15	MS-0103821	10	M8 SCREW, SOCKET HD CAP
14	CLA-0008233	2	BEARING, COLLET CLOSER
13	CL-0004197-01	1	BODY, HYDRAULIC INLET
12	CL-0004197	1	HOUSING, DRAIN
11	CLB-0009259-A	1	PISTON SLEEVE ASSY
10	CL-0000407-01	1	HOUSING, RING
9	NC-0010884	.18	ADHESIVE, LOCTITE #242
8	CL-0010768-01	1	PISTON CAP
7	CL-0000492-03	1	NUT, ADJUSTING
6	MS-0103514	4	M5 SCREW, SOCKET HD CAP
5	MW-0193810	14	LOCK WASHER, SPRING
3	MS-0103819	14	M8 SCREW, SOCKET HD CAP
2	CLA-0000492-02	1	NUT, ABUTMENT
1	CLB-0003015-A	1	DRAWTUBE ASSEMBLY
ITEM	PART NUMBER	QTY	DESCRIPTION

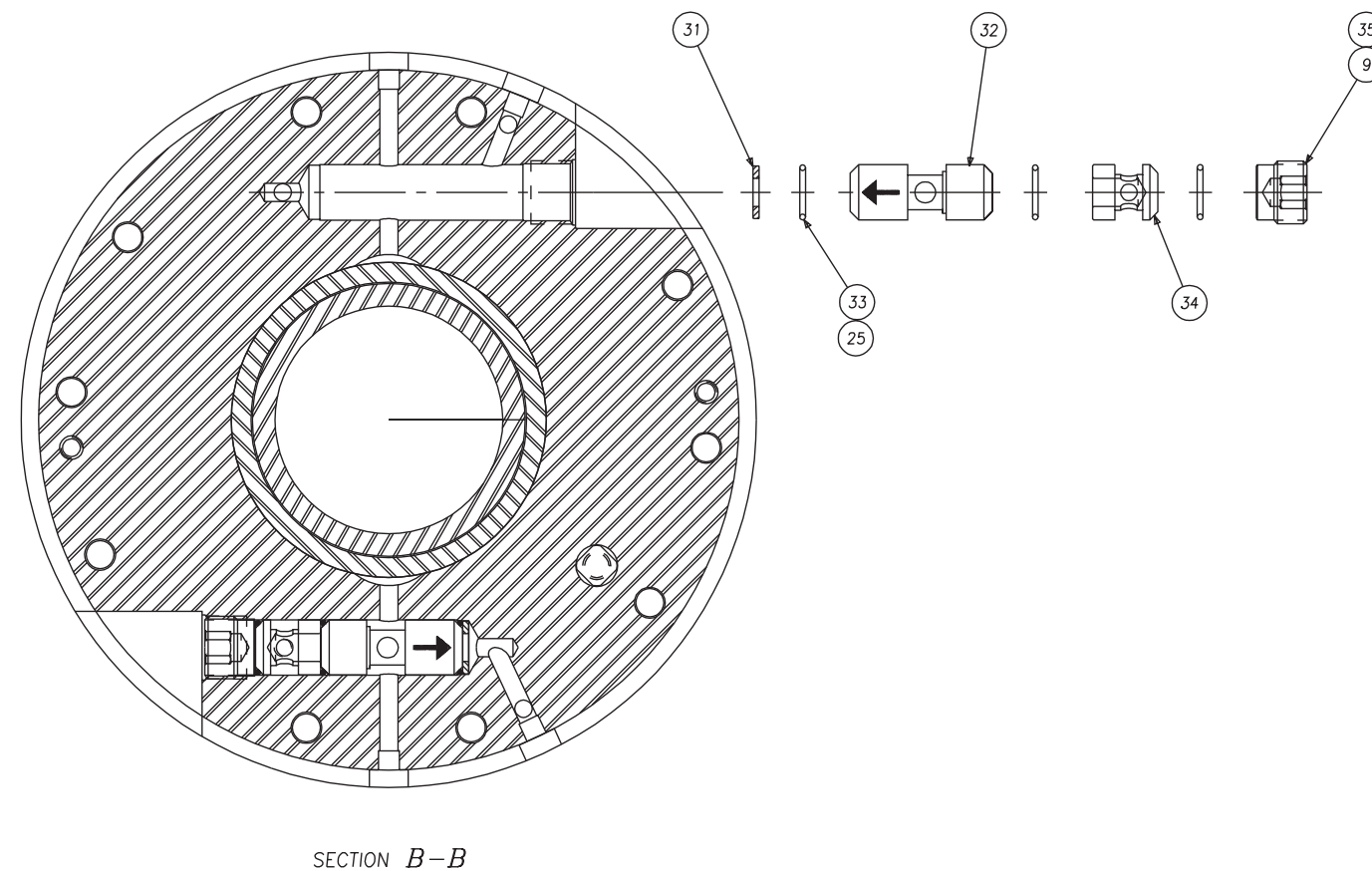
NAME COLLET CLOSER ASSY PART NUMBER CLB-0000006
SHEET 2 of 2

Collet Closer Assembly, Big Bore



SECTION A-A

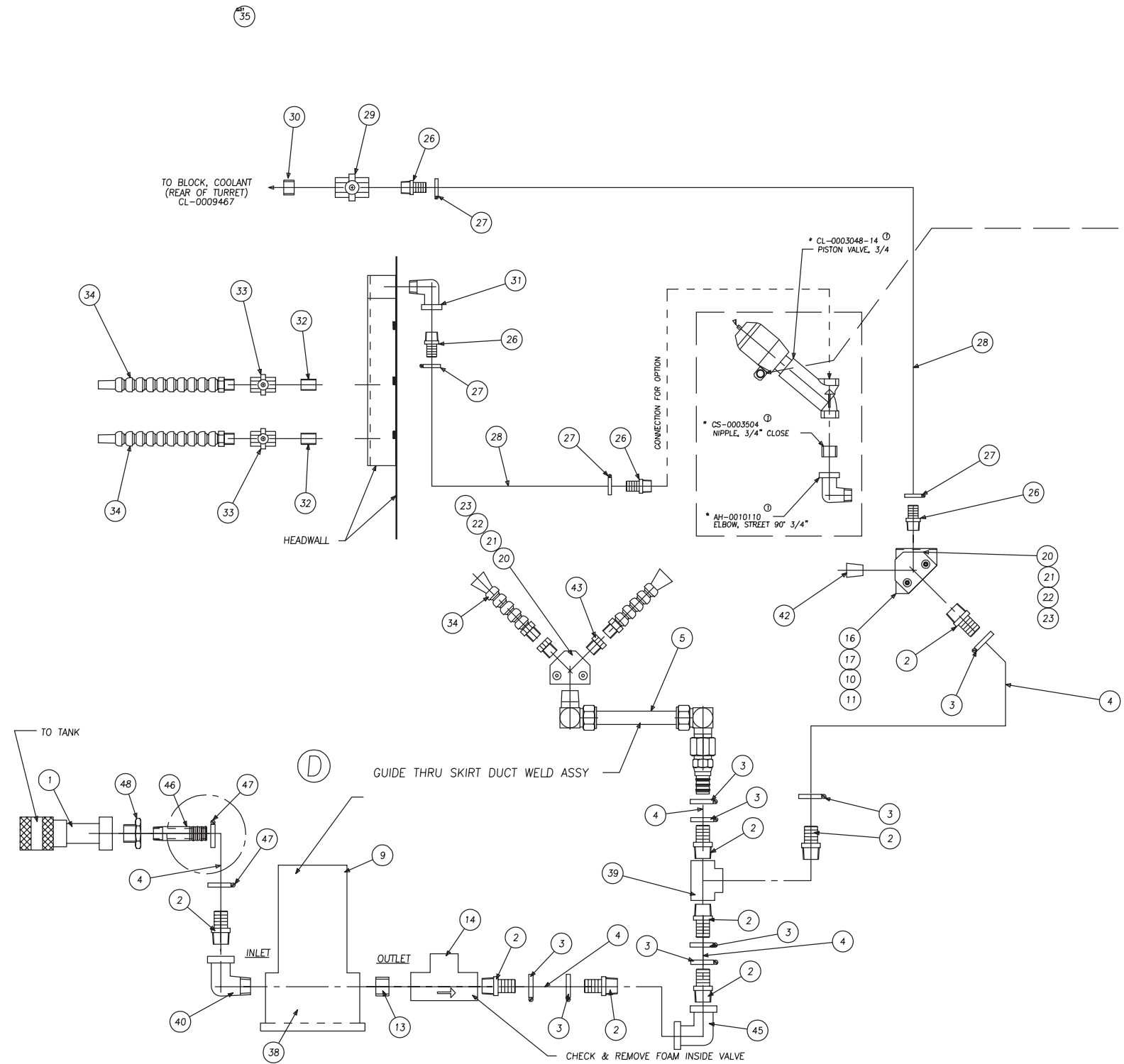
NAME COLLET CLOSER ASSY (BIG BORE OPTION) PART NUMBER CL 0000006 B QTY 1 of 2



45	LO-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-S	.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	CLA000040702	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

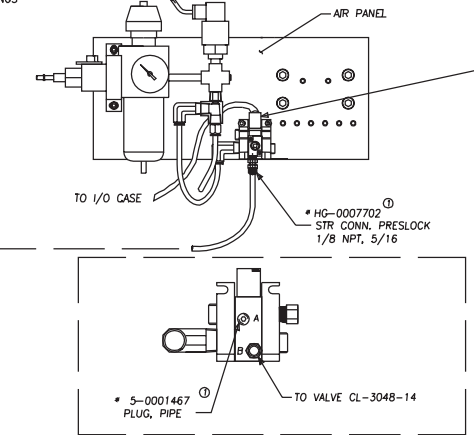
NAME COLLET CLOSER ASSY (BIG BORE OPTION)
 PART NUMBER CL 0000006 B
 SHEET 2 of 2

Coolant Facilities, Rear Discharge Machine



* NOTE:
 * LT-0010884-S
 SEALANT, PIPE
 WILL BE APPLIED
 TO TUBING FITTINGS

NOTE:
 PARTS MARKED * ARE FOUND ON THE CL-0003310-CC COOLANT CONTROL OPTION
 PART MARKED \$ ARE FOUND ON SUB-SPINDLE MODULE (CL-4).

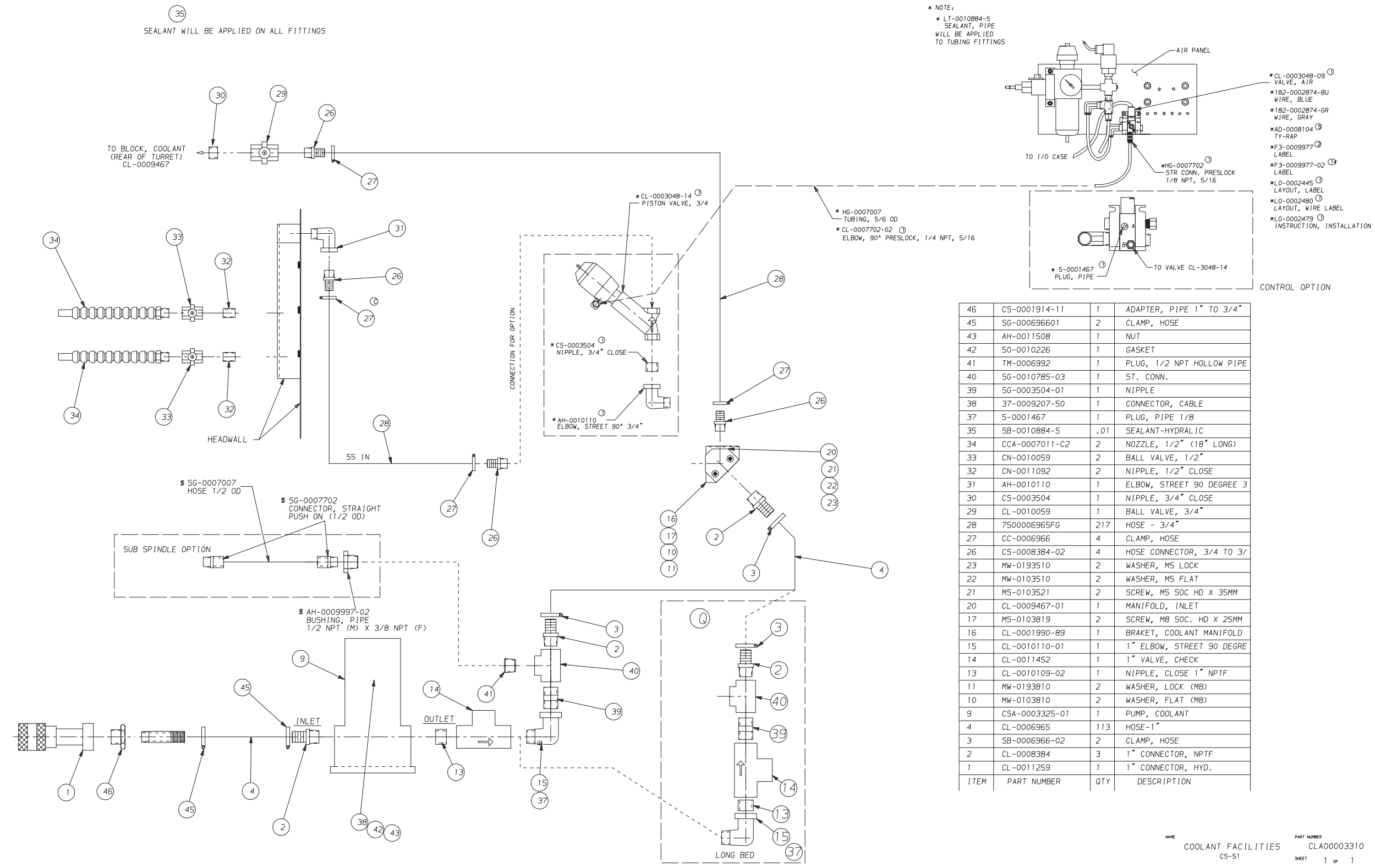


- * CL-0003048-09 VALVE, AIR
- * 182-0002874-BU WIRE, BLUE
- * 182-0002874-GR WIRE, GRAY
- * AD-0008104 TY-RAP
- * F3-0009977 LABEL
- * F3-0009977-02 LABEL
- * LO-0002445 LAYOUT, LABEL
- * LO-0002480 LAYOUT, WIRE LABEL
- * LO-0002479 INSTRUCTION, INSTALLATION

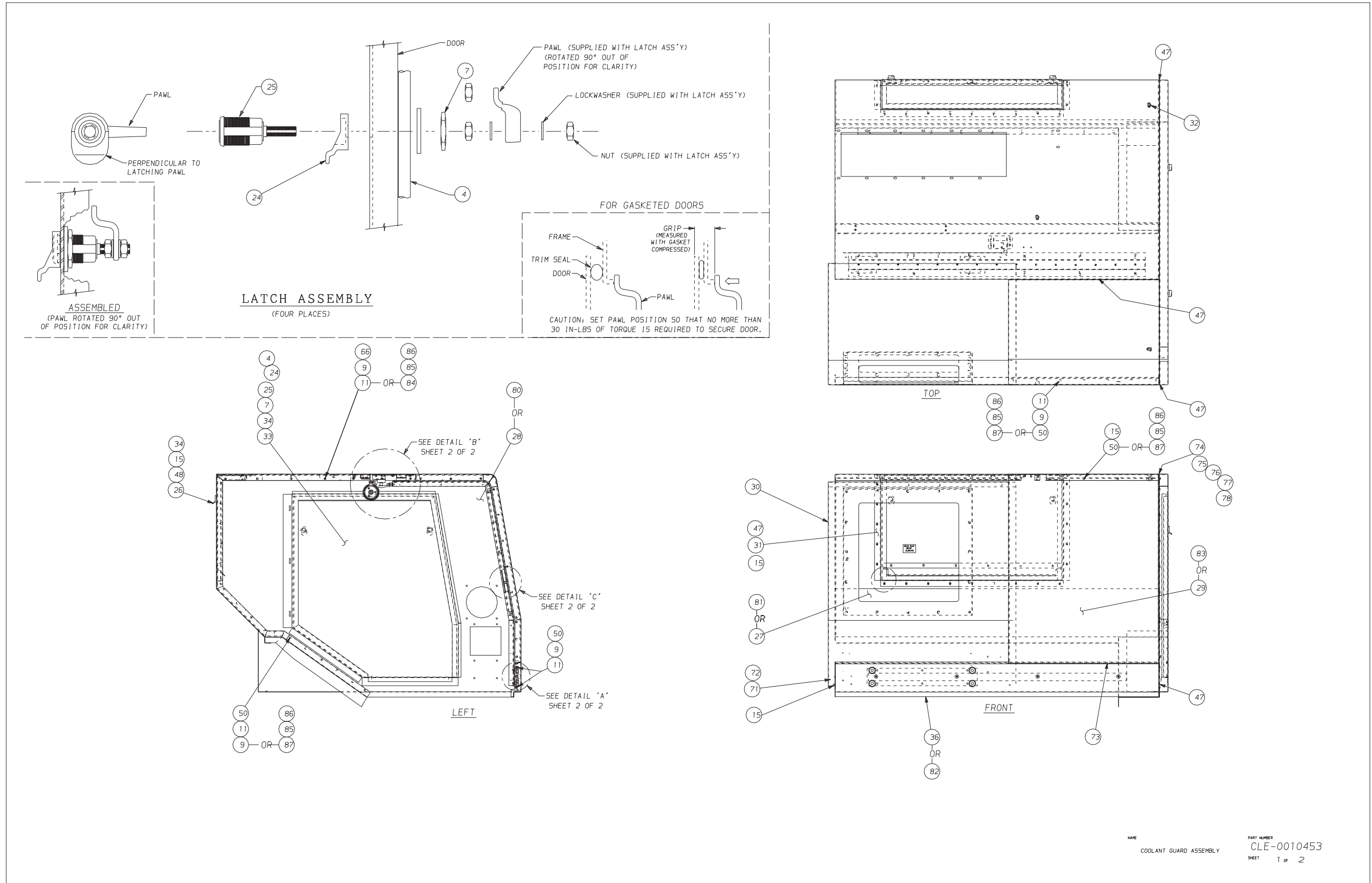
ITEM	PART NUMBER	QTY	DESCRIPTION
48	CS-0001914-11	1	ADAPTER, PIPE 1" TO 3/4"
47	SG-0006966-01	2	CLAMP, HOSE
46	ECB-008686	1	PIPE, POSITIONED DOWN
45	MC-0007703-03	1	ELBOW, 90 DEG FEMALE
43	VL-0007702-11	2	BUSHING, 3/4" TO 1/2"
42	J1-0001914	1	PLUG, 3/4"
40	CL-0007703-01	1	ELBOW, 1" 90 DEG STREET
39	SG-0007702-03	1	TEE, 1"x1"x1"
38	37-0009207-50	1	CONNECTOR, CABLE
35	SB-0010884-S	.01	SEALANT-HYDRAULIC
34	CCA-0007011-C2	4	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	750-0006965-FG	217	HOSE - 3/4"
27	CC-0006966-01	4	CLAMP, HOSE
26	CS-0008384-02	4	HOSE CONNECTOR, 3/4 TO 3/4
23	MW-0193510	4	WASHER, M5 LOCK
22	MW-0103510	4	WASHER, M5 FLAT
21	MS-0103521	4	SCREW, M5 SOC HD X 35MM
20	CL-0009467-01	2	MANIFOLD, INLET
17	MS-0103819	2	SCREW, M8 SOC. HD X 25MM
16	CL-0001990-89	1	BRACKET, COOLANT MANIFOLD
14	CL-0011452	1	1" VALVE, CHECK
13	CL-0010109-02	1	NIPPLE, CLOSE 1" NPTF
11	MW-0193810	2	WASHER, LOCK (M8)
10	MW-0103810	2	WASHER, FLAT (M8)
9	CSA-0003325-01	1	PUMP, COOLANT
5	CL-0008221-01	1	ASSEMBLY, COOLANT TUBE
4	CL-0006965	226.74	HOSE-1"
3	SB-0006966-02	8	CLAMP, HOSE
2	CL-0008384	8	1" CONNECTOR, NPTF
1	CL-0011259	1	1" CONNECTOR, HYD.

NAME: COOLANT FACILITIES
 CL-51 REAR DISCHARGE

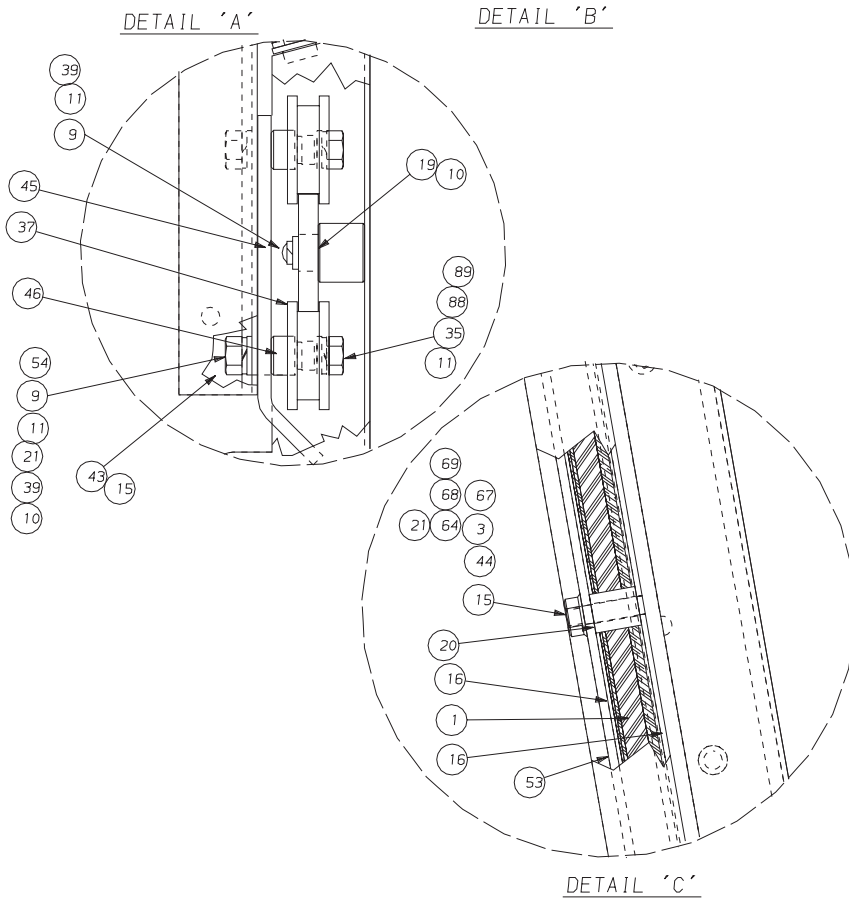
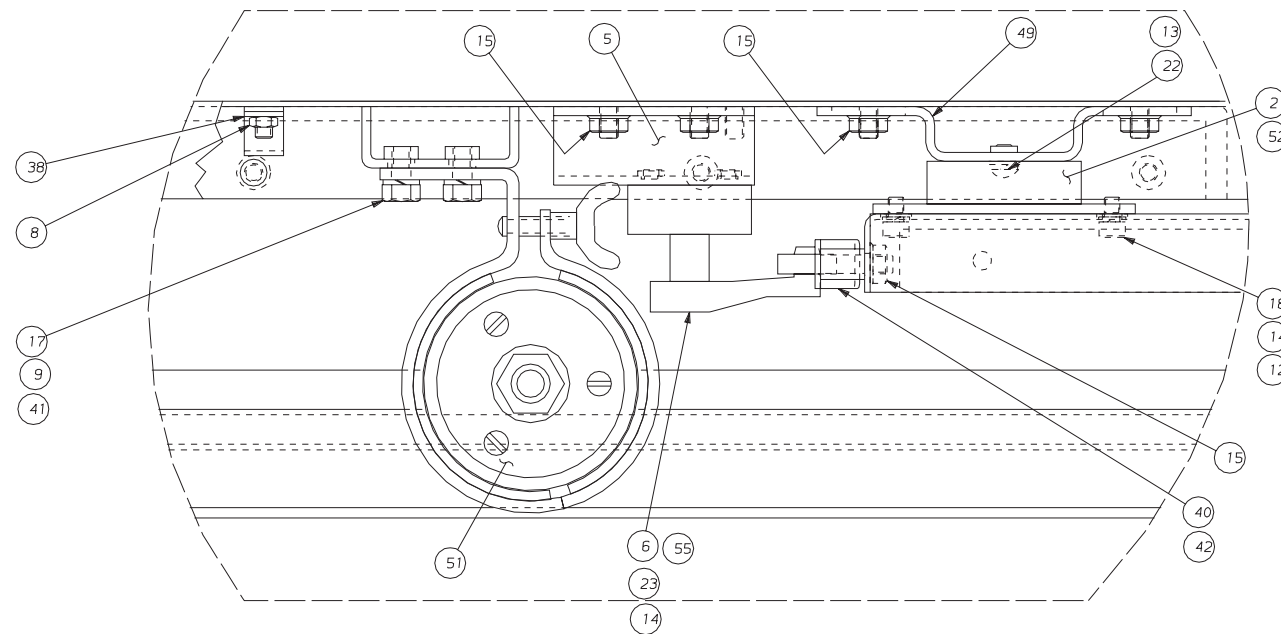
PWG NUMBER: CL-0003310-RD
 SHEET: 1 of 1



Coolant Guard Assembly



NAME: COOLANT GUARD ASSEMBLY
PART NUMBER: CLE-0010453
SHEET: 1 of 2



ITEM	PART NUMBER	QTY	DESCRIPTION
89	MN-0113610	4	NUT, M6-1.0
88	MW-0193610	8	LOCKWASHER, M6
87	MS-0303616-55	18	SCREW, M6-1.0x12mmLg SS
86	MW-0103610-55	48	WASHER, M6-1.0
85	MW-0183610-55	48	LOCKWASHER, M6 SS
84	MS-0303617-55	30	SCREW, M6-1.0x16mmLg SS
83	CL-0000221-EMGE	1	RIGHT FRONT GUARD ASSY
82	CL-0001990-EM74	1	PANEL, FRONT DOOR TRACK
81	CL-0000221-EMGA	1	GUARD, REAR ASSY
80	CL-0000221-EMRE	1	GUARD, RIGHT END ASSY
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-0010116-68	1	GASKET, FP/GE
72	CL-0010116-53	1	STRIP, VITON
71	CL-0001990-98	1	RETAINER
69	MS-0303319	2	SCREW, BUTT HD M3X.5 X 25MM
68	CL-0000328	2	EXTENSION, STOP
67	DV-0010884	0	ADHESIVE

NOT SHOWN:

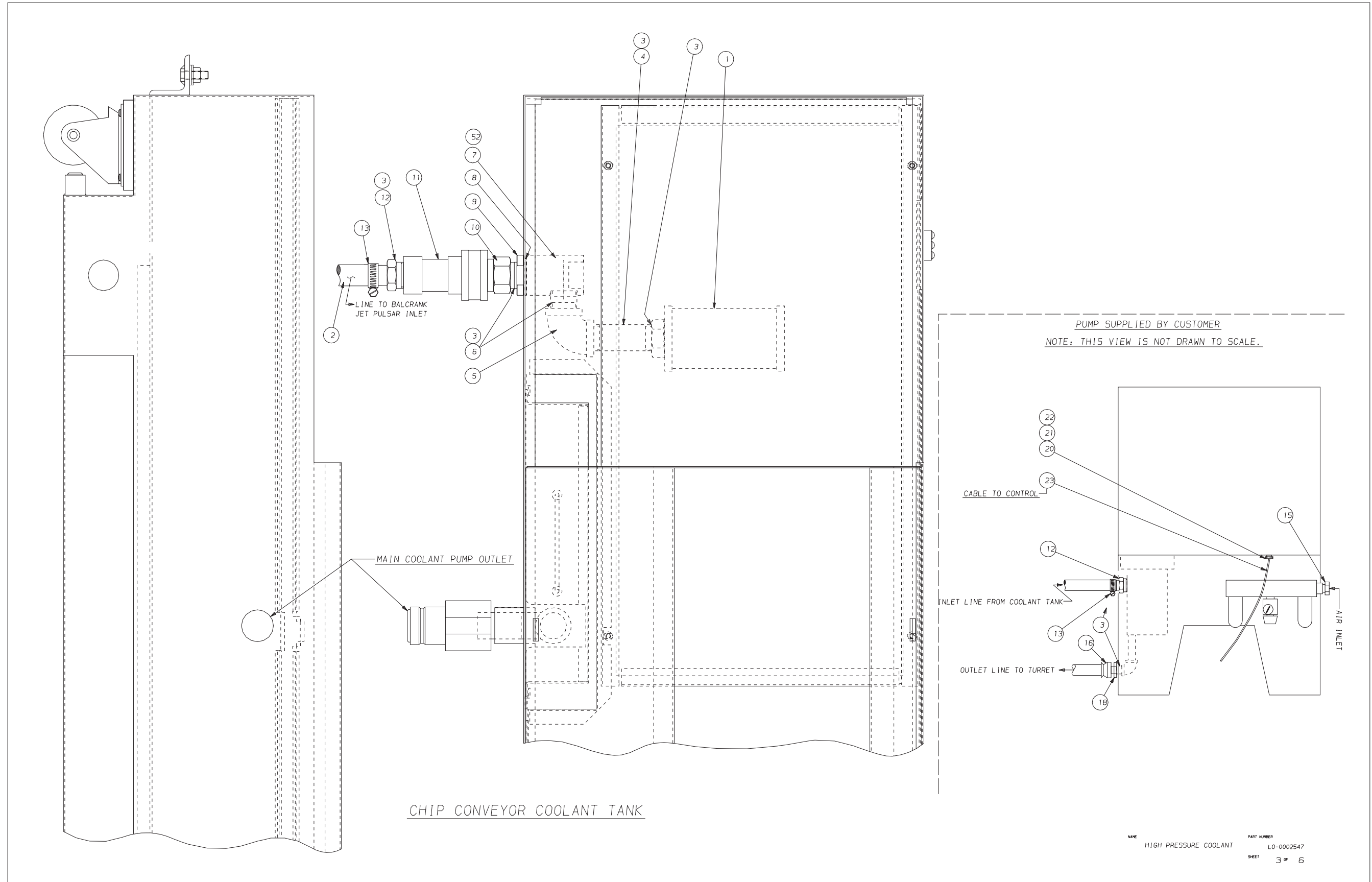
79

66	MS-0303617	30	SCREW, BT.HD. M6X1.0 X 16M
64	MS-0303315	2	SCREW, BTHD M3X.5X10MM
55	HG-0003650-03	1	SWITCH, LEVER ARM
54	MS-0153618	4	SCREW FOR MTG. ROLLER PLAT
53	CL-0001990-76	1	FRAME, WINDOW
52	C5-0010994	0	GREASE
51	CL-0008915-01	1	LIGHT
50	MS-0303616	20	SCREW, BT HD M6 X 1.0 X 12
49	CL-0001990-75	1	MOUNT, UPPER TRACK
48	CL-0001990-72	1	DEFLECTOR, DOOR (REAR ACCE
47	GE-0010884	0	SEALER
46	C5-0010568-01	4	BUSHING DOOR ROLLER (LOWER
45	HG-0012103	1	PLATE ROLLER MOUNTING
44	C5-0010331-03	2	PLUG, SNAP-IN
43	CL-0001990-80	2	GUSSET, DOOR SUPPORT
42	HG-0010568-03	6	SPACER
41	C5-0008915-02	2	BRACKET, (CS)
40	CL-0000221-47	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-0001990-74	1	PANEL, FRONT DOOR TRACK
35	MS-0153622	4	SCREW FOR MTG. ROLLER ASSY
34	SB-0011965	4	ALIGNMENT PIN
33	CL-0003780	1	DOOR, RIGHT ACCESS
32	DP-0009604-B	3	DOT PLUG
31	CL-0000221-16	1	RETAINER, BACK
30	CLA-000221-FD	1	FRONT DOOR GUARD WELD ASSY
29	CL-0000221-GE	1	RIGHT FRONT GUARD ASSY
28	CLC-0000221-RE	1	GUARD, RIGHT END ASSY
27	CLB-0000221-GA	1	GUARD, REAR ASSY
26	CL-0001990-71	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 8
21	NC-0010884-02	0	LOCTITR #222
20	CL-0011182	16	BUSHING, WINDOW
19	CLB-0006324	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	CL-0010116-14	8	GASKET, WINDOW
15	MN-0283610	103	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	57	WASHER, FLAT M6X1.0 STEEL
10	MW-0263610	10	WASHER, STAR EXT. M6X1.0 S
9	MW-0183610	61	WASHER, LOCK REG. M6X1.0 S
8	MN-0113510	2	NUT, M5
7	R-0000331	4	NUT
6	CSA-0010224-01	1	SWITCH, LIMIT
5	CL-0001990-79	1	BRACKET, SWITCH (MAIN GUAR
4	CN-0011198-01	7	TRIM-SEAL
3	HG-0010541	4	BUMPER, RUBBER
2	CL-0006463	1	SLIDE PACK, UPPER TRACK
1	CL-0010449-01	1	WINDOW, DOOR

NAME
COOLANT GUARD ASSEMBLY

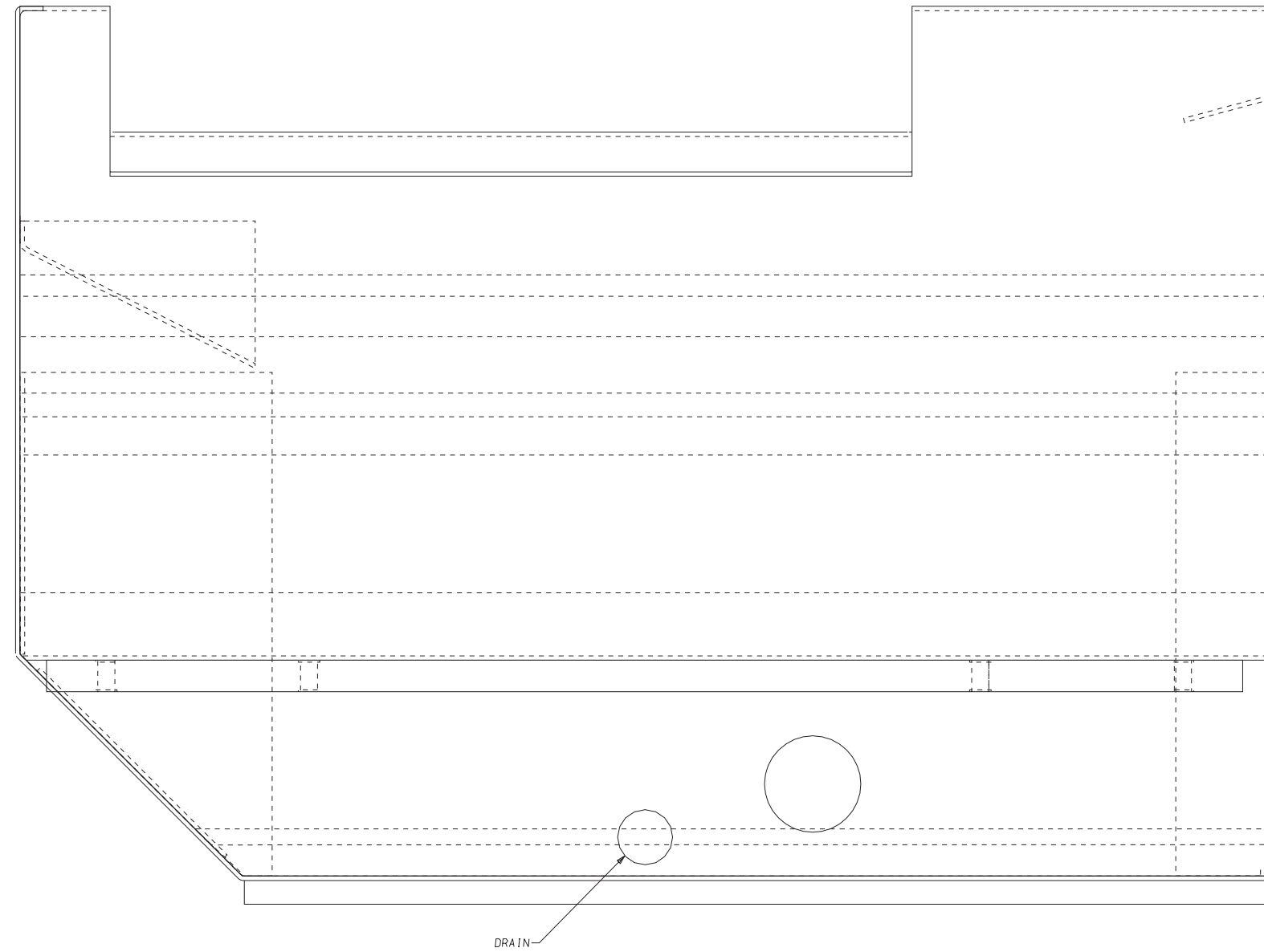
PART NUMBER
CLE-0010453

SHEET
2 of 2

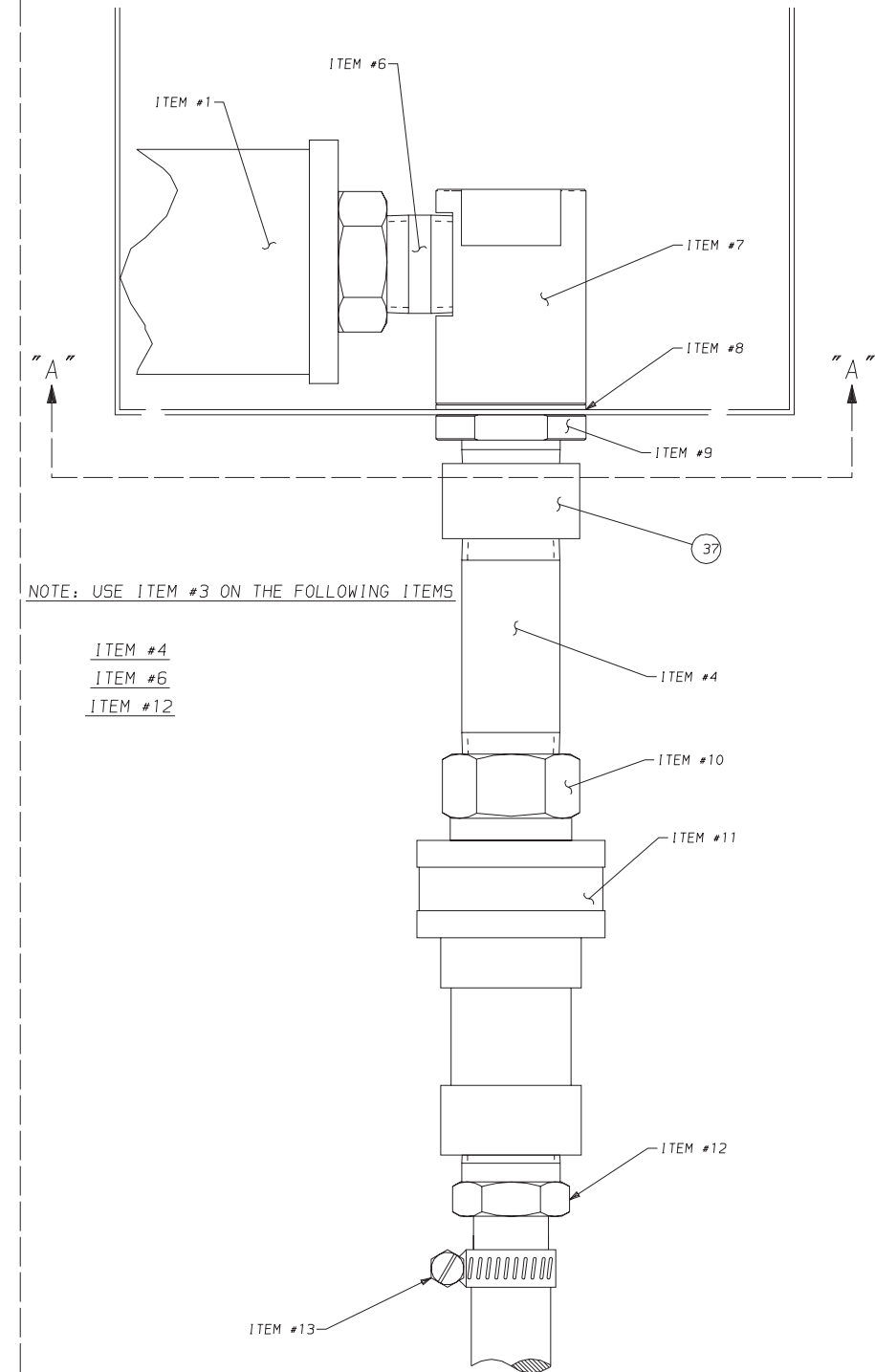


VIEW "A" - "A"

RIGHT END VIEW - STD. TANK



DRAIN

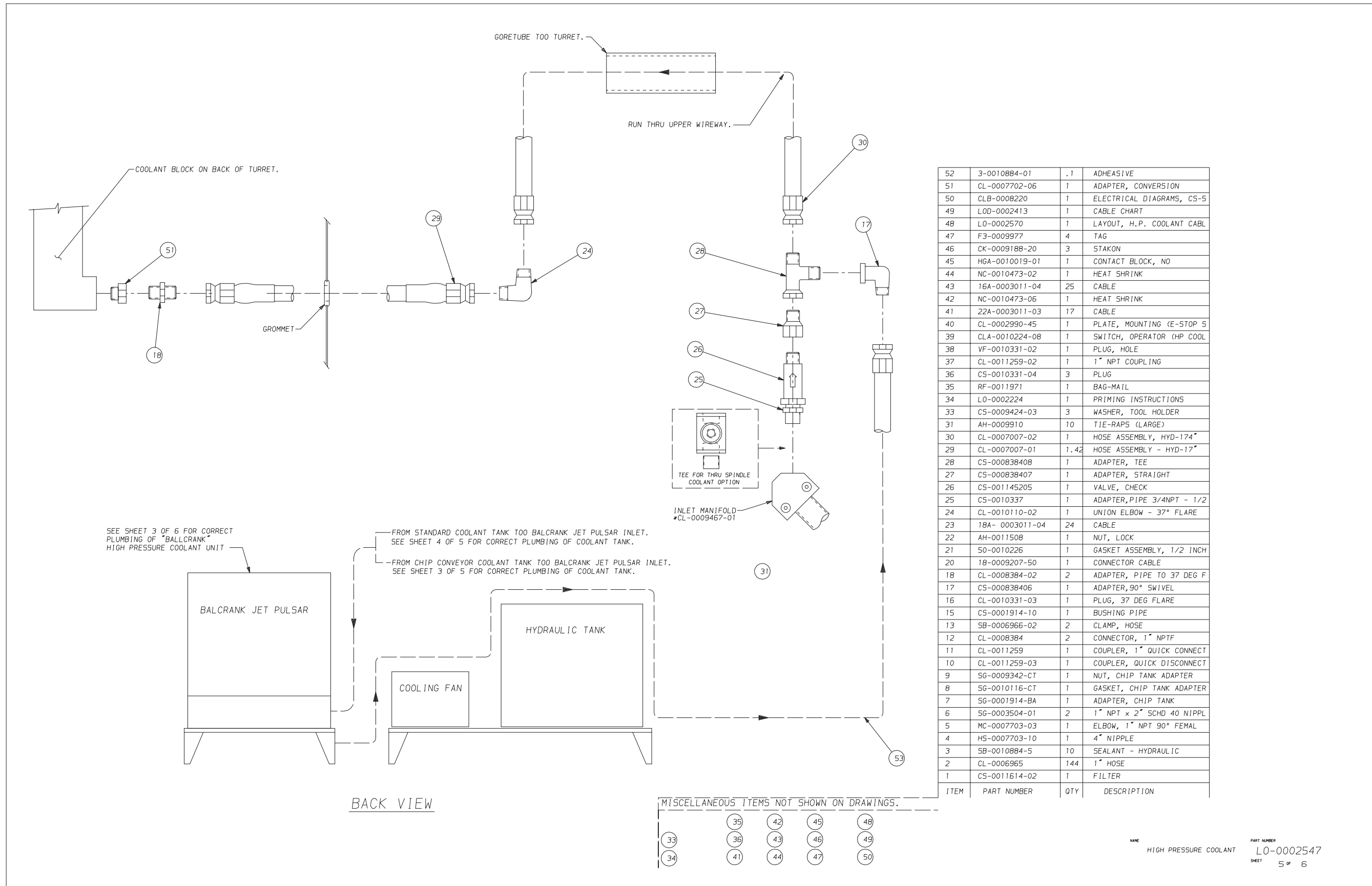


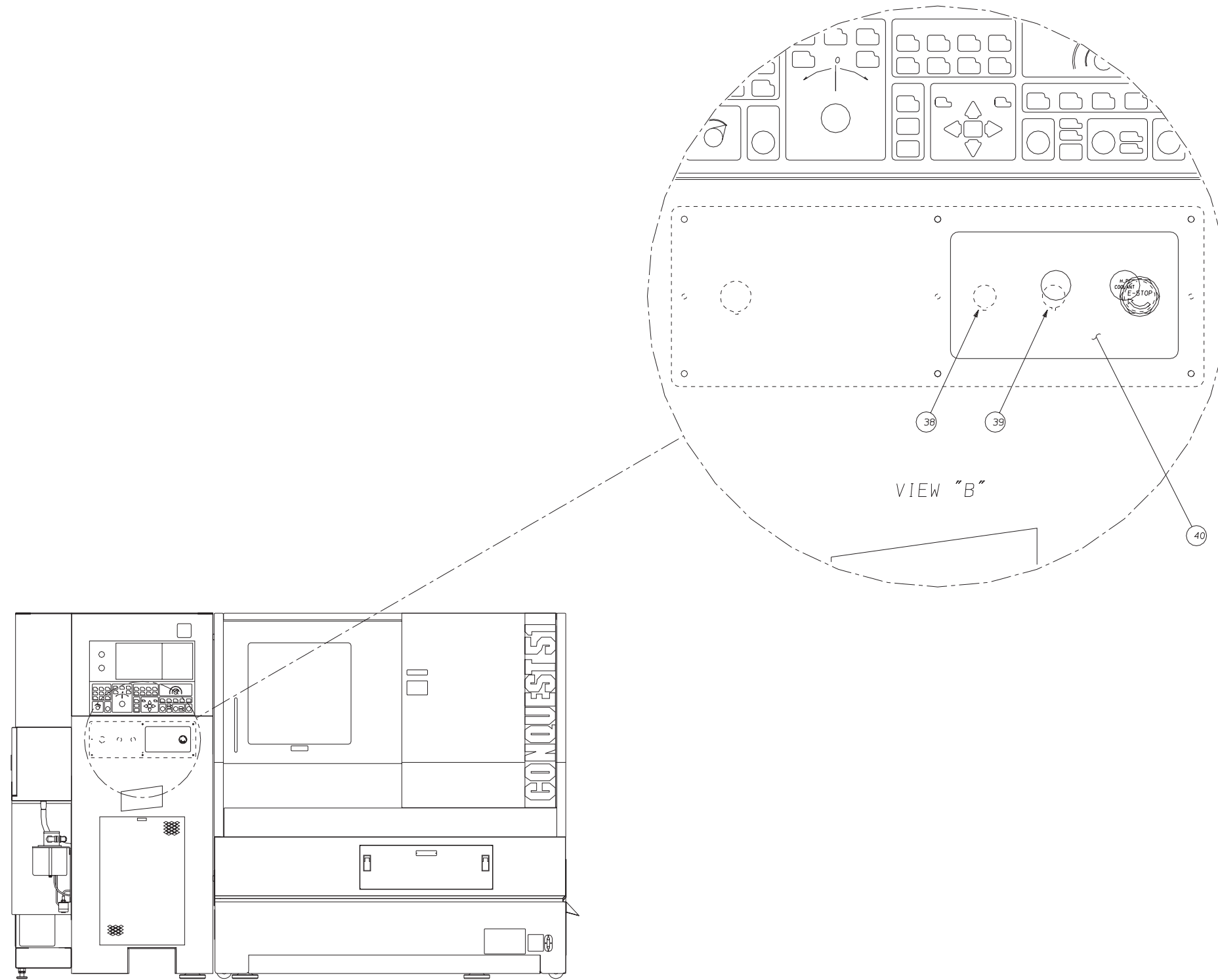
NOTE: USE ITEM #3 ON THE FOLLOWING ITEMS

- ITEM #4
- ITEM #6
- ITEM #12

NAME	PART NUMBER
HIGH PRESSURE COOLANT	LO-0002547
SHEET	4 OF 6

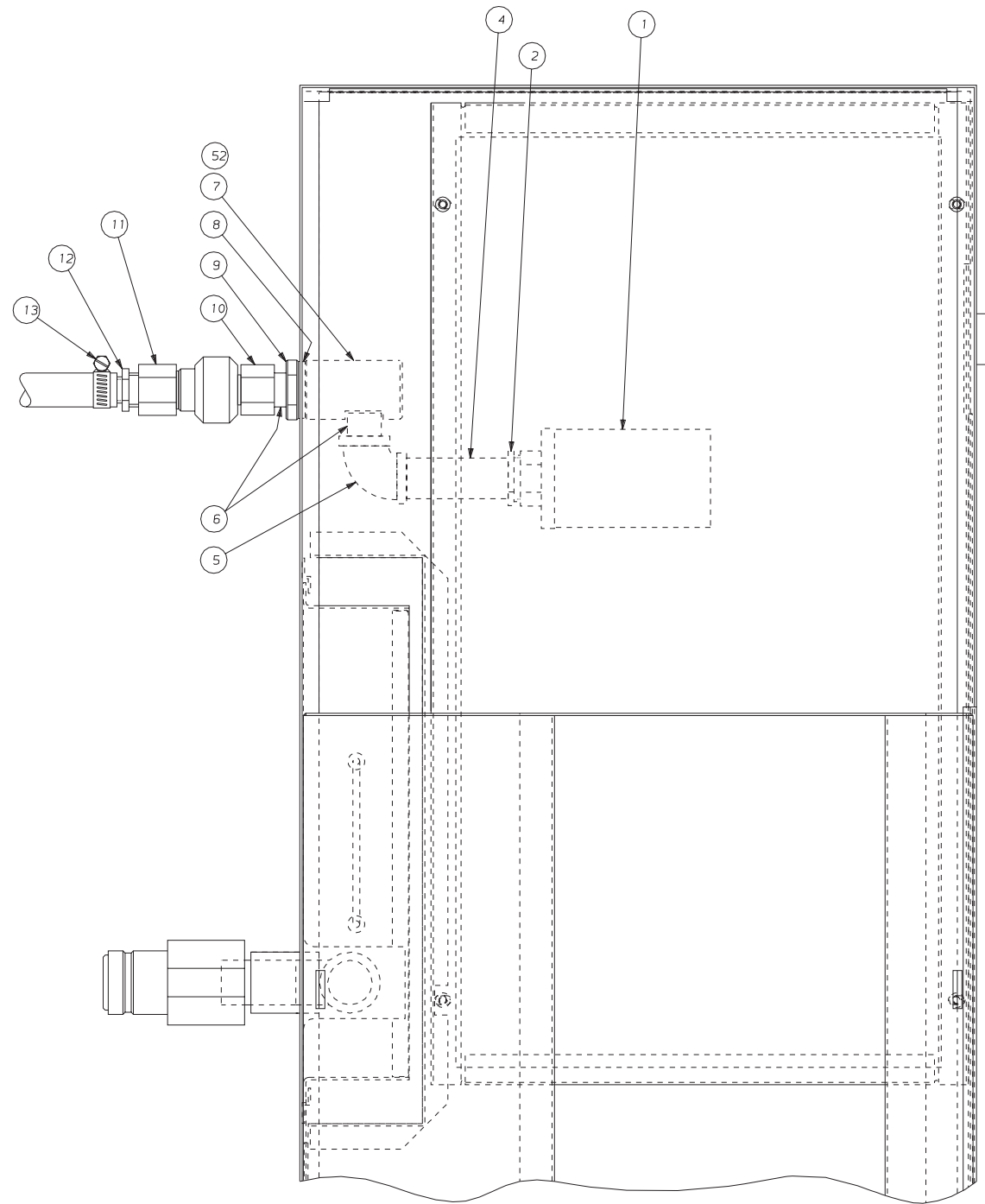
Coolant System, High Pressure





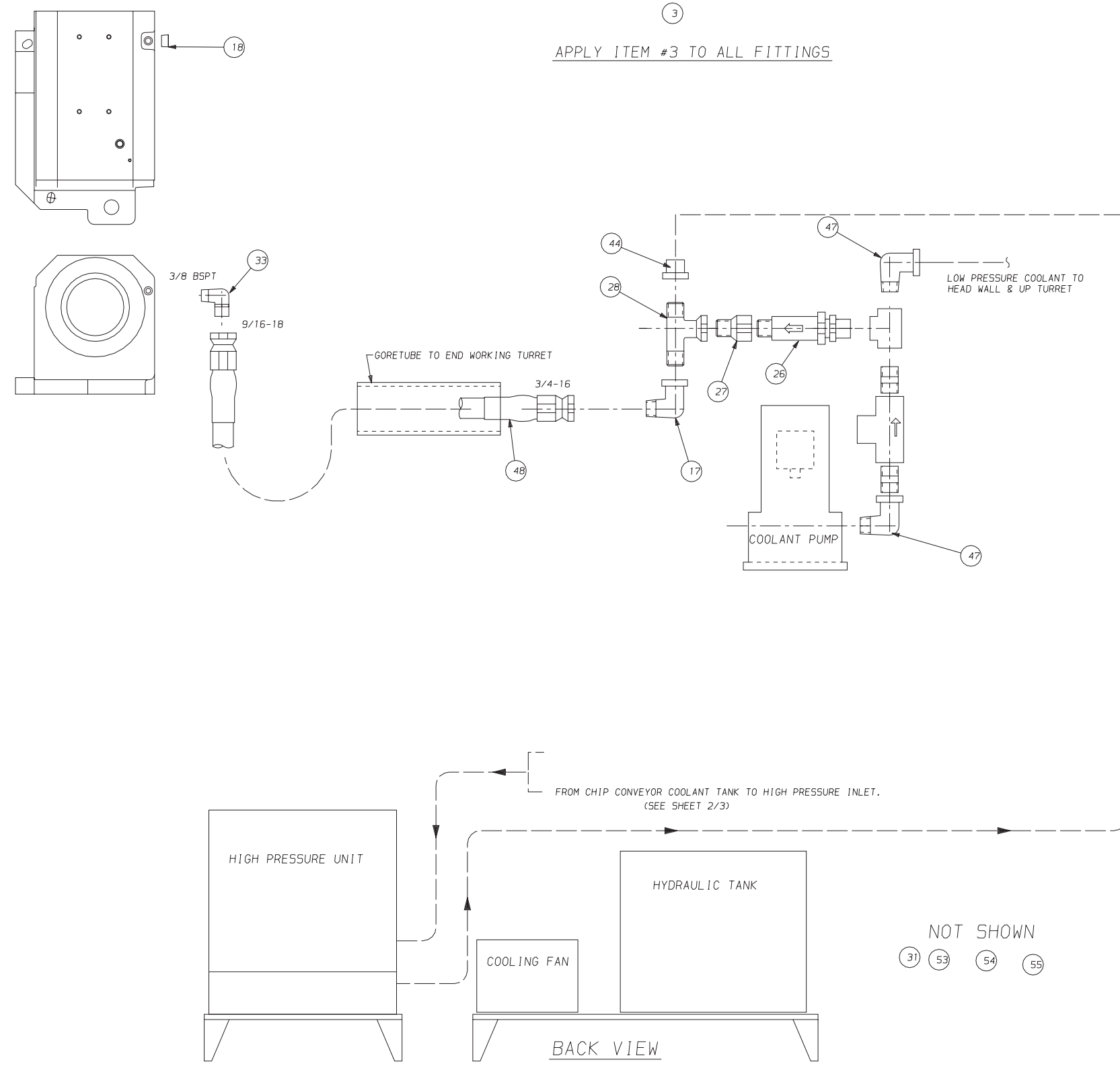
NAME HIGH PRESSURE COOLANT PART NUMBER LO-0002547
SHEET 6 of 6

Coolant System, High Pressure, End-Working Turret Only



CHIP CONVEYOR COOLANT TANK

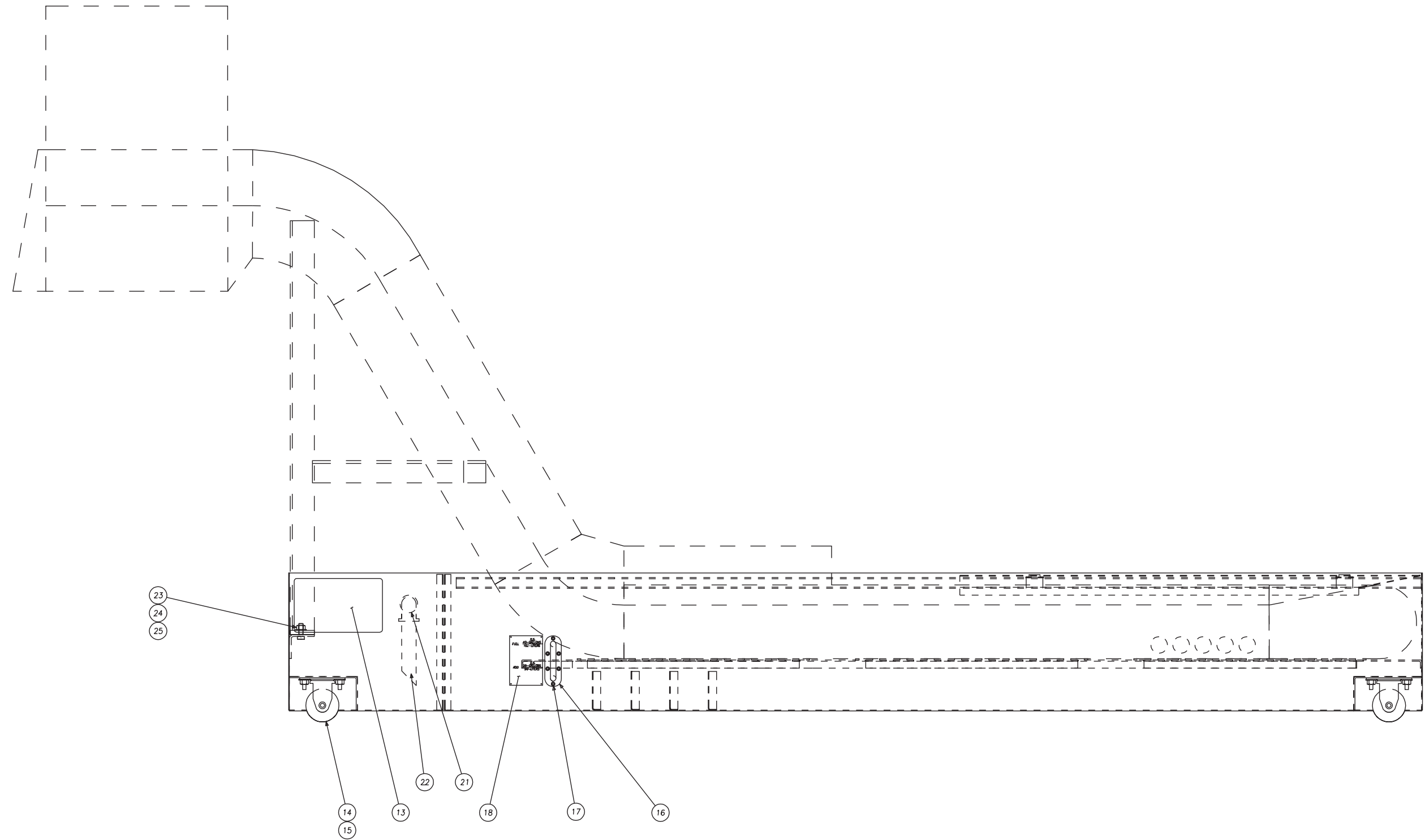
NAME HIGH PRESSURE COOLANT LAYOUT (END WORKING TURRET ONLY) PART NUMBER LO 0003225 SHEET 2 of 3



55	SG 0009342CT	1	NUT, CHIP TANK ADAPTER
54	SG 0010116CT	1	GASKET, CHIP TANK ADAPTER
53	SG 0001914BA	1	ADAPTER, BULKHEAD
52	S 001088401	.1	ADHEASIVE
48	CL 0007007HP	1	HOSE ASSY
47	CL 0008384	2	CONNECTOR 1" NPT
44	H5 000770317	1	CAP
33	SG 001078602	1	MALE ELBOW, 3/8 BSPT TO 9
31	AH-0009910	2	TIE-RAPS (LARGE)
28	SG 000838402	1	BRANCH TEE
27	C5 000838407	1	ADAPTER, STRAIGHT
26	C5 001145205	1	VALVE, CHECK
18	TM 0006992	1	PLUG, 1/4 NPT HOLLOW PIPE
17	C5 000838406	1	ADAPTER, 90 SWIVEL
13	CC 000696601	1	CLAMP, HOSE
12	C5 000838402	1	CONNECTOR
11	C5 0011259	1	CONNECTOR, HYD.
10	C5 001125901	1	COUPLING, NIPPLE
9	C5 000934201	1	NUT, CHIP TANK ADAPTER
8	C5 000191408	1	GASKET, CHIP TANK ADAPTER
7	C5 000191408	1	ADAPTER, CHIP TANK
6	C5 0003504	2	NIPPLE, CLOSE 3/4" PIPE
5	JL 0010110	1	ELBOW, 3/4" BLACK
4	4 0010109	1	4" NIPPLE
3	SB 0010884 5	.01	SEALANT, HYD
2	C5 000191405	1	ADAPTER, PIPE 1" M. TO 3/4"
1	C5 001161402	1	FILTER
ITEM	PART NUMBER	QTY	DESCRIPTION

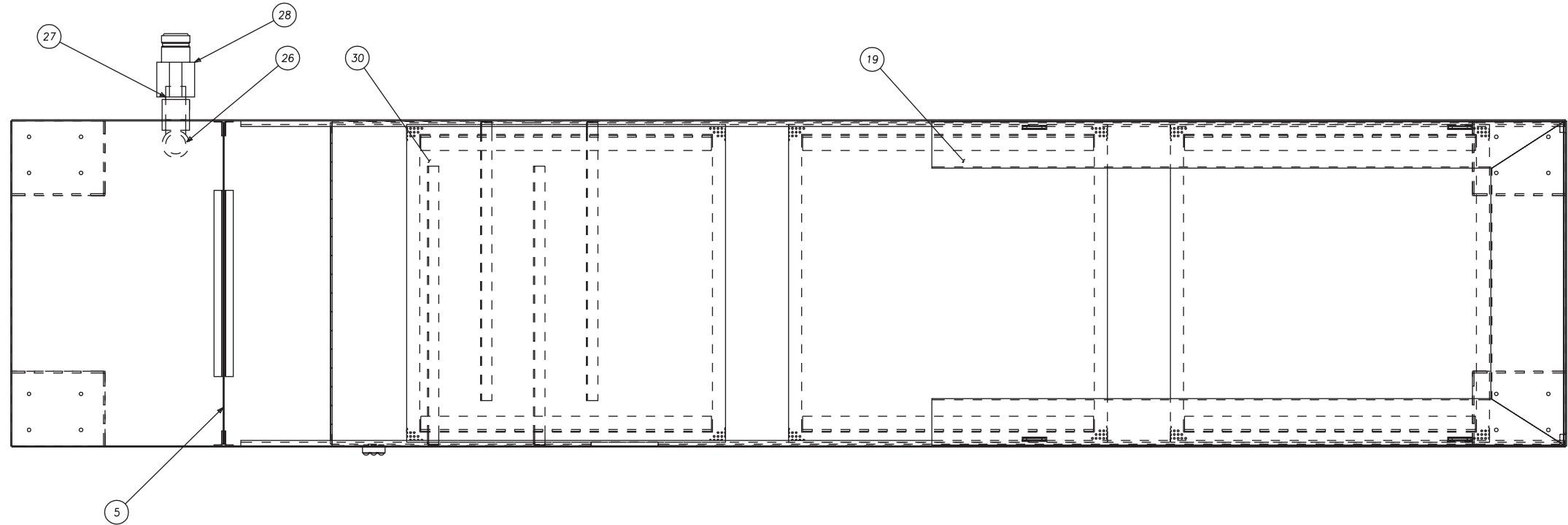
NAME: HIGH PRESSURE COOLANT LAYOUT (END WORKING TURRET ONLY)
PART NUMBER: LO 0003225
SHEET: 3 of 3

Coolant Tank Assembly, Rear Discharge Machine



NAME COOLANT TANK ASSEMBLY PART NUMBER CL 0003315RD
PAGE 2 of 3

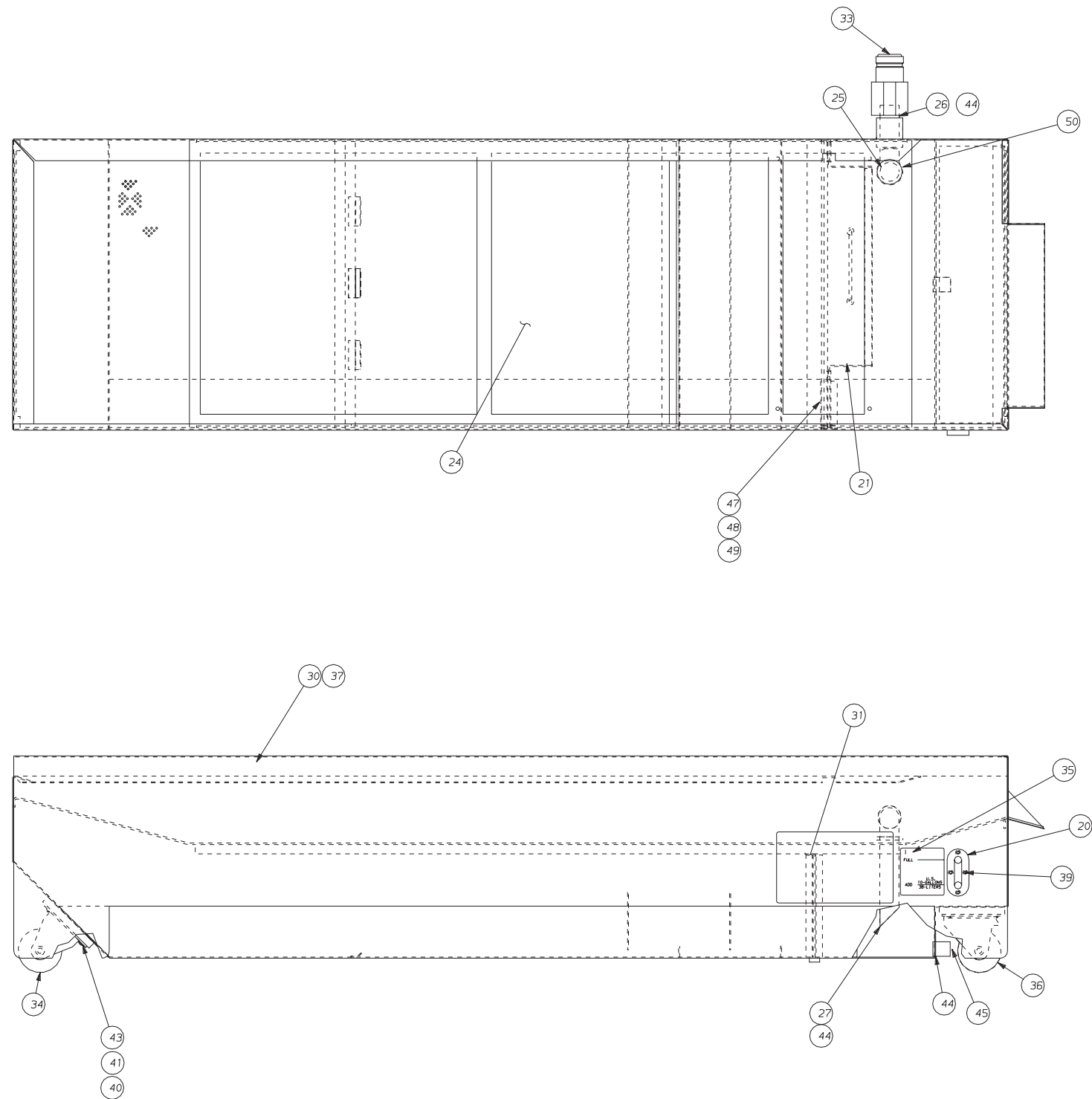
Coolant Tank Assembly, Rear Discharge Machine



30	CL-0003315-13	3	SCREEN WELD ASSY
29	CL-0011259-02	1	COUPLING, NIPPLE
28	CL-0011259-03	1	COUPLING, NIPPLE
27	CL-0010109-02	1	NIPPLE, 1" CLOSE
26	SB-0010884-S	1	SEALANT, HYDRAULIC
25	MW-0194010	2	WASHER, LOCK
24	MW-0104010	2	WASHER, FLAT
23	MN-0114010	2	NUT, HEX M10
22	CL-0010109-05	1	NIPPLE, COOLANT TANK
21	CL-0007703-01	1	ELBOW, 1" BLACK
19	CL-0003315-04	1	CHIP SHIELD
18	VLA001036607	1	VL-0010366-07
17	MS-0303517	6	SCREW, BUTTON HD M5
16	CC-0011318	1	GAUGE, LEVEL
15	MN-0283610	16	NUT, SER HEX FLNG M6
14	LC-0011557	4	CASTER, SWIVEL
13	VL-0010366-06	1	TAG, COOLANT TANK
12	VL-0003315-19	4	TAB, FRT & REAR STIFFENER
11	CLA-0003315-12	2	STIFFENER, FRONT & REAR
10	CL-0003315-06	1	SUPPORT, SCREEN
9	VLB-0003315-01	2	BLOCK, CASTER RIGHT
8	VLB-0003315-02	2	BLOCK, CASTER LEFT
7	CL-0003315-05	2	BAFFLE, REAR SIDE
6	CL-0003315-08	2	BAFFLE, FRONT SIDE
5	CL-0004990-59	1	SCREEN, COOLANT FILTER
4	CL-0004990-58	6	BRACE, FILTER SCREEN
3	CL-0004990-57	1	BRACKET, CONVEYOR
2	CL-0003315-07	2	TANK END, RIGHT & LEFT
1	CL-9003315-SD	1	COOLANT TANK
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME COOLANT TANK ASSEMBLY PART NUMBER CL-0003315-RD SHEET 3 of 3

Coolant Tank Assembly, Side Discharge Machine

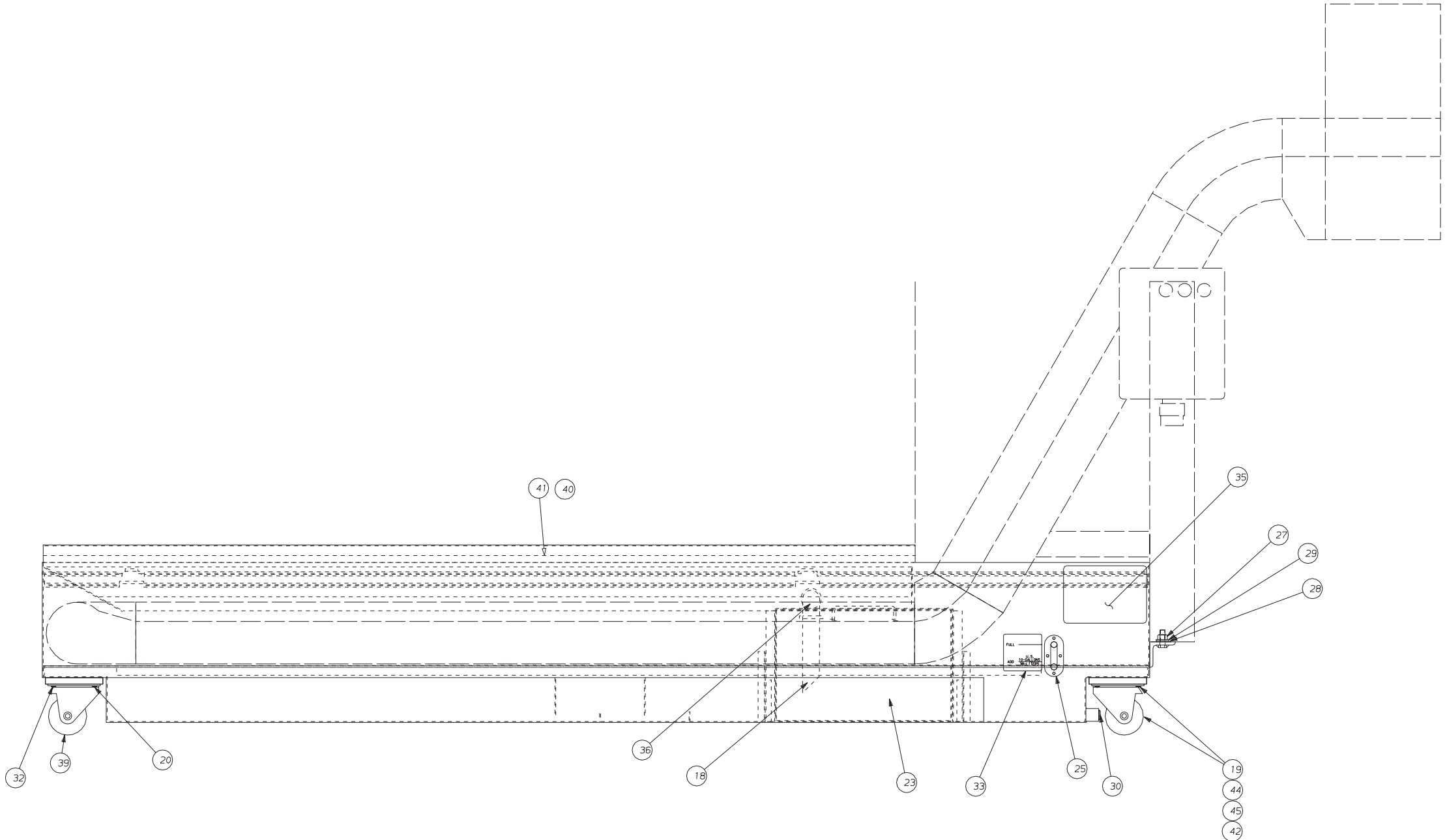


ITEM	PART NUMBER	QTY	DESCRIPTION
50	SB-0009532-01	1	GROMMET
49	MW-0263510	4	MS STAR WASHER
48	M5-0303516	4	MS SCREW BT HD X12MM
47	CL-0004990-99	1	COVER
46	CL-0003315-TAS	1	SCREEN SUPPORT
45	3750001467	1	PLUG, PIPE
44	SB-0010884-5	0	SEALANT, HYD.
43	MW-0193810	16	WASHER, LOCK
41	MW-0103810	16	WASHER
40	M5-0103817	16	SCREW
39	M5-0303517	4	SCREW, BUTTON HD.
37	DV-0010884	0	ADHESIVE
36	CS-0011557	2	CASTER, SWIVEL
35	CLA-0010522	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-0010116-46	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	2	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
15	CL-0002990-28	1	STOP, SCREEN
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	C5-0011942-5M	4	M5 X .8 PEM NUT
1	2000032	1	#14 GAGE (.0697) CRSS

NAME
COOLANT TANK ASSEMBLY

PART NUMBER
CLB-0003315-TA

SHEET
4 of 4

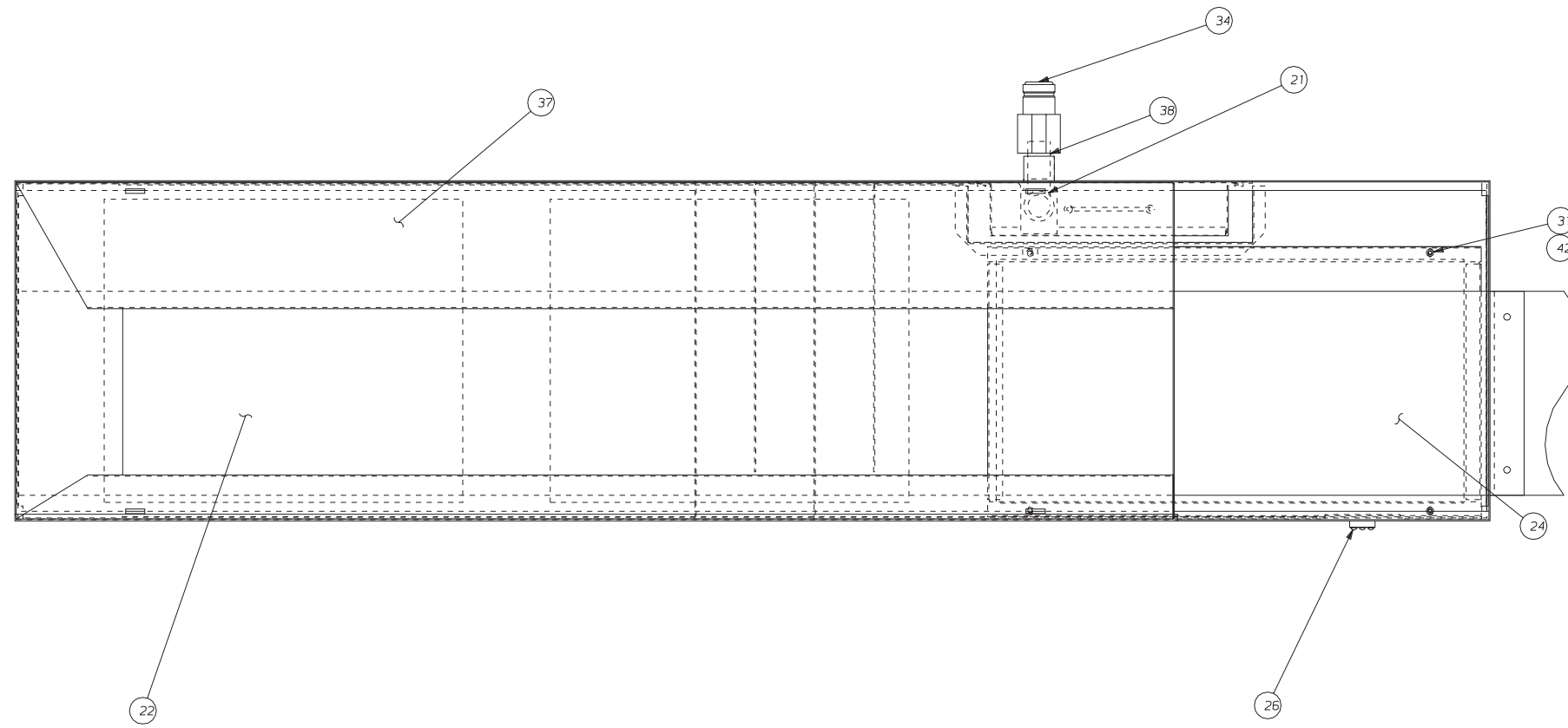


NAME
COOLANT TANK ASSEMBLY

PART NUMBER
CLA0003315SD

SHEET
5 of 7

Coolant Tank Assembly, Side Discharge Machine with Chip Conveyor



NAME
COOLANT TANK ASSEMBLY

PART NUMBER
CLA0003315SD

SHEET
6 of 7

Coolant Tank Assembly, Side Discharge Machine with Chip Conveyor

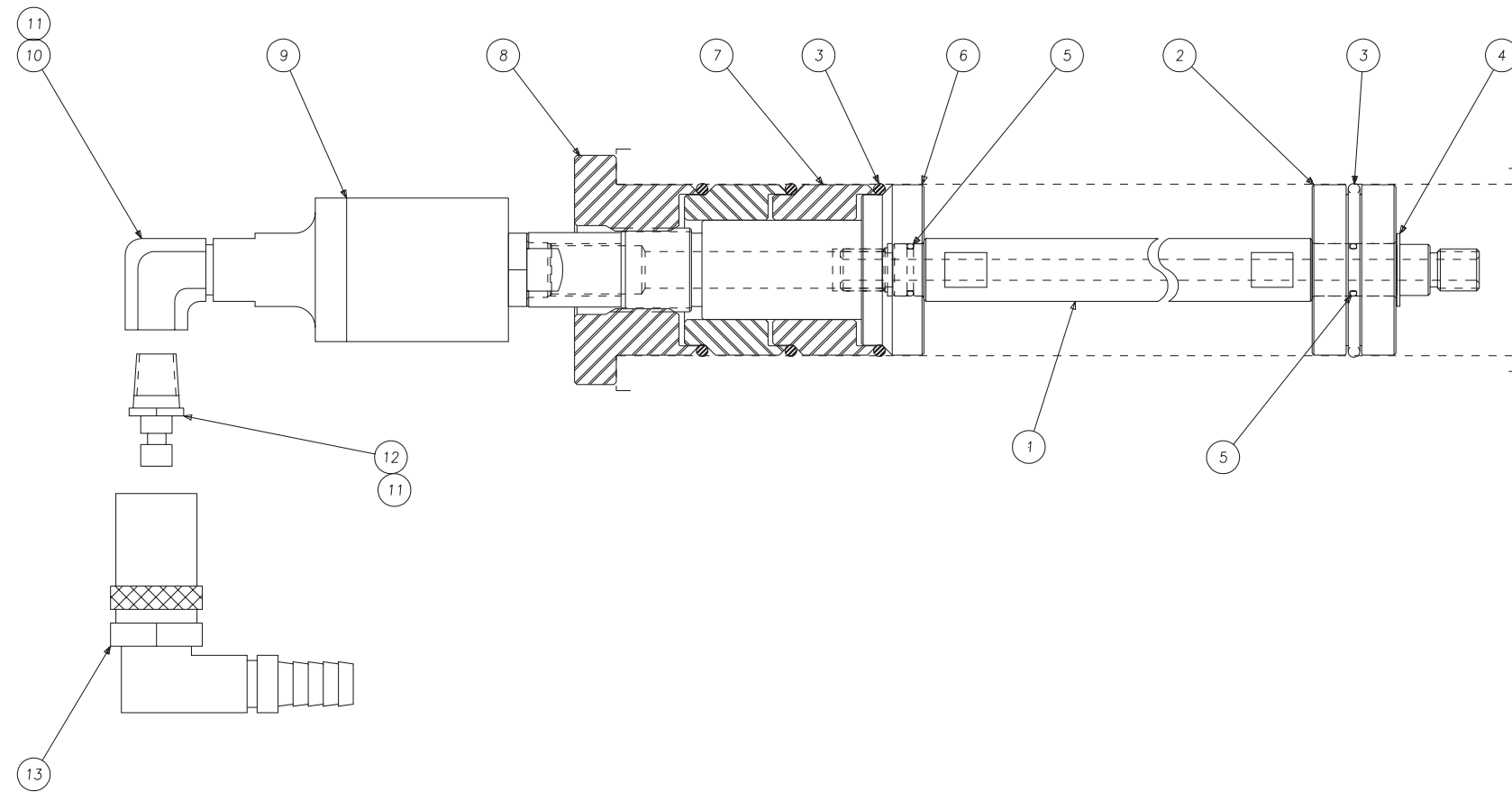
45	MW-0103610	8	WASHER, REG FLAT M6
44	MS-0103617	8	SCREW, SOC HD CAP M6
43	CL-0003315-09	1	BLOCK, CASTER MTG
42	MW-0193610	12	WASHER, LOCK
41	CL-0010116-46	1	STRIP, COOLANT TANK SPLASH
40	DV-0010884	.01	ADHESIVE
39	CL-0011557	2	CASTER, RIGID
38	CL-0010109-02	1	NIPPLE, 1" CLOSE
37	CL-0001990-56	1	CHIP SHIELD WELD ASSEMBLY
36	CL-0007703-01	1	ELBOW, 1" BLACK
35	CL-0010366	1	TAG
34	CL-0011259-03	1	COUPLING, NIPPLE
33	CLA-0010366-01	1	TAG, COOLANT GAUGE
32	MW-0193810	8	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	CLA-0010115-32	1	COVER, SUMP
23	CL-0001990-WA	1	FILTER WELD ASSEMBLY
22	CLA-0003315-T1	2	SCREEN, WELD ASSY
21	SB-0010884-5	1	SEALANT, HYDRAULIC
20	MS-0303817	8	SCREW, BUT HD SOC MB
19	LC-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
14	CS-0011942-5M	4	PEM NUT
13	CL-0011259-02	1	COUPLING, PIPE
12	CL-0001990-61	1	STIFFENER, BACK
11	CL-0001990-60	1	STIFFENER, FRONT
10	MS-0154020	2	SCREW, HEX. HD. CAP
9	CL-0002990-39	1	FILTER MOUNT, HORIZONTAL
8	CL-0001990-59	1	SUPPORT, SCREEN
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	1	BLOCK, CASTER MTG
3	CL-0001990-58	1	TANK, LEFT END
2	CL-0001990-57	1	TANK, RIGHT END
1	2000036	1	14 GA (.0697) CRSS
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
COOLANT TANK ASSEMBLY

PART NUMBER
CLA00033155D

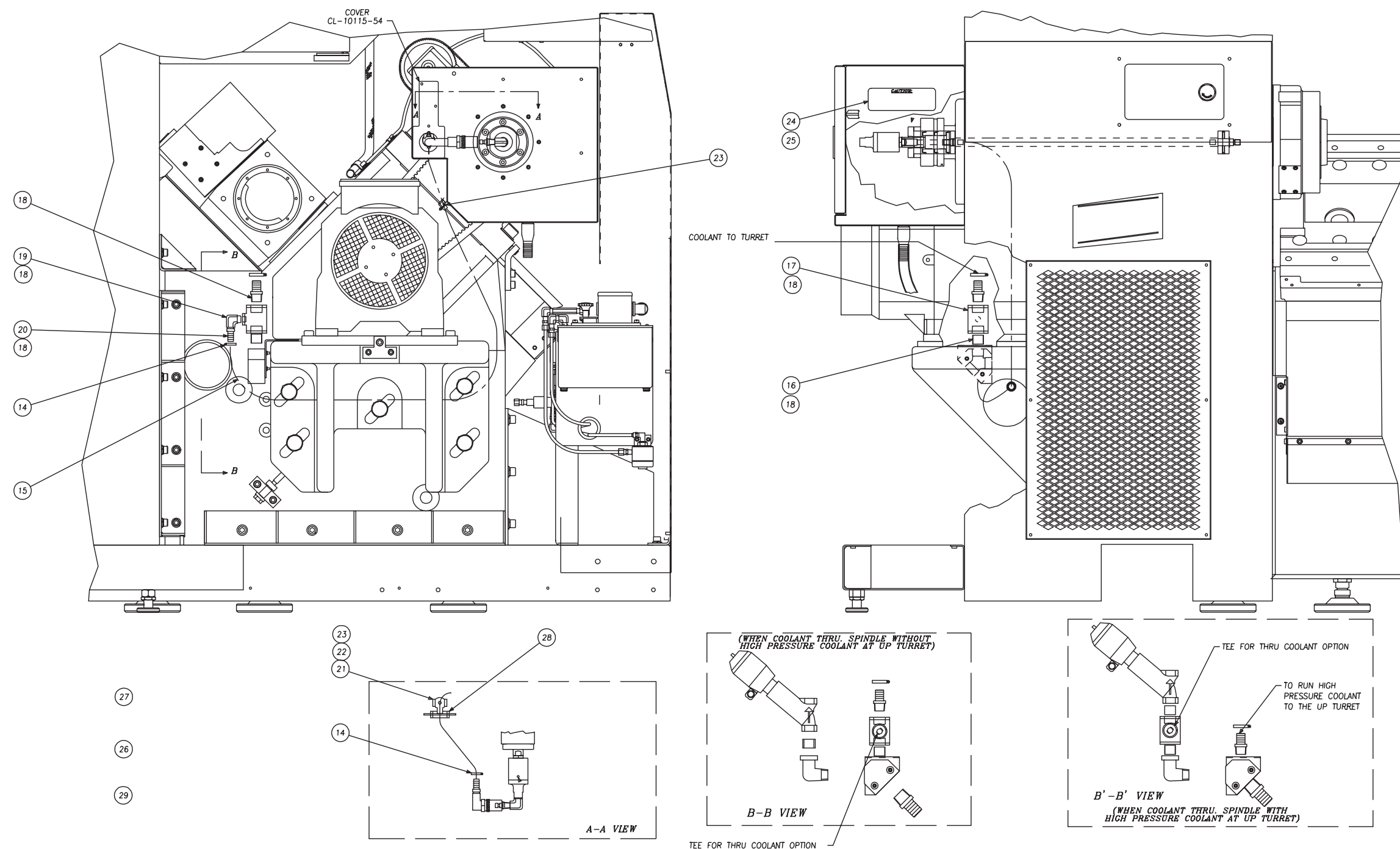
SHEET 7 of 7

Coolant, Thru-Spindle



NAME
SUB-ASSEMBLY, THRU SPINDLE

PART NUMBER
CL 0003310 T
SHEET 1 of 3

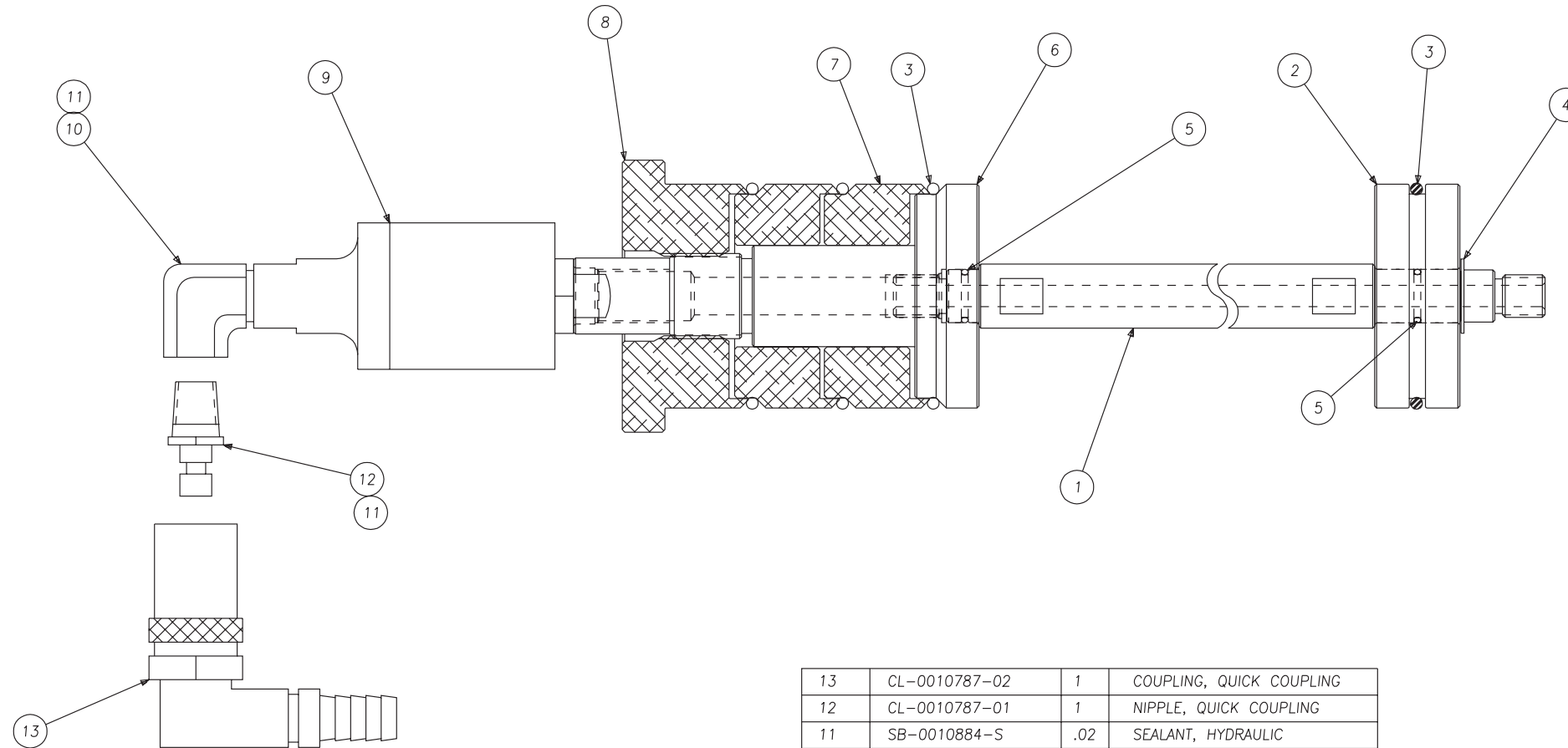


Coolant, Thru-Spindle

29	RF 0011971	1	BAG - MAIL
28	RF 0009532	1	GROMMET
27	LO 0002497	1	INSTRUCTIONS, INSTALLATIO
26	H 00095000984	1	TAG, THRU SPINDLE HANGING
25	R 0008044	2	PIN, ESCUTCHEON
24	CS 001030206	1	TAG, THRU SPINDLE CAUTION
23	AD 0008104	2	TY-RAP
22	MS 0303515	1	SCREW, BUTTON HD M5 X 10M
21	CN 0008104	1	TY-RAP-MOUNT
20	CS 001078604	1	FITTING, BARBED
19	AO 0010786	1	STREET, ELBOW 1/4 NPT
18	SB 0010884 S	.05	SEALANT, HYDRAULIC
17	CL 0007702	1	BLACK MI TEE 3/4 X 3/4 X
16	CS 0003504	1	NIPPLE, 3/4 CLOSE
15	5000006965	63	HOSE, 1/2 IN ID
14	CC 000696601	2	CLAMP, HOSE
13	CL 001078702	1	COUPLING, QUICK COUPLING
12	CL 001078701	1	NIPPLE, QUICK COUPLING
11	SB 0010884 S	.02	SEALANT, HYDRAULIC
10	AO 0010786	1	STREET, ELBOW 1/4 NPT
9	CSA000770304	1	UNION, ROTARY COOLANT
8	CL 0002883	1	NUT
7	CL 000925902	2	SLEEVE
6	62 000823102	1	SHAFT, CARRIER
5	OR 0000810	2	O-RING
4	62 000823102	1	RING, RETAINER
3	OR 0003329	4	O-RING, 2.064 OD-1.786 ID
2	CL 0004817	1	BUSHING, END SUPPORT
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
COOLANT ASSY. THRU SPINDLE

PART NUMBER
CL 0003310 T
SHEET 3 OF 3

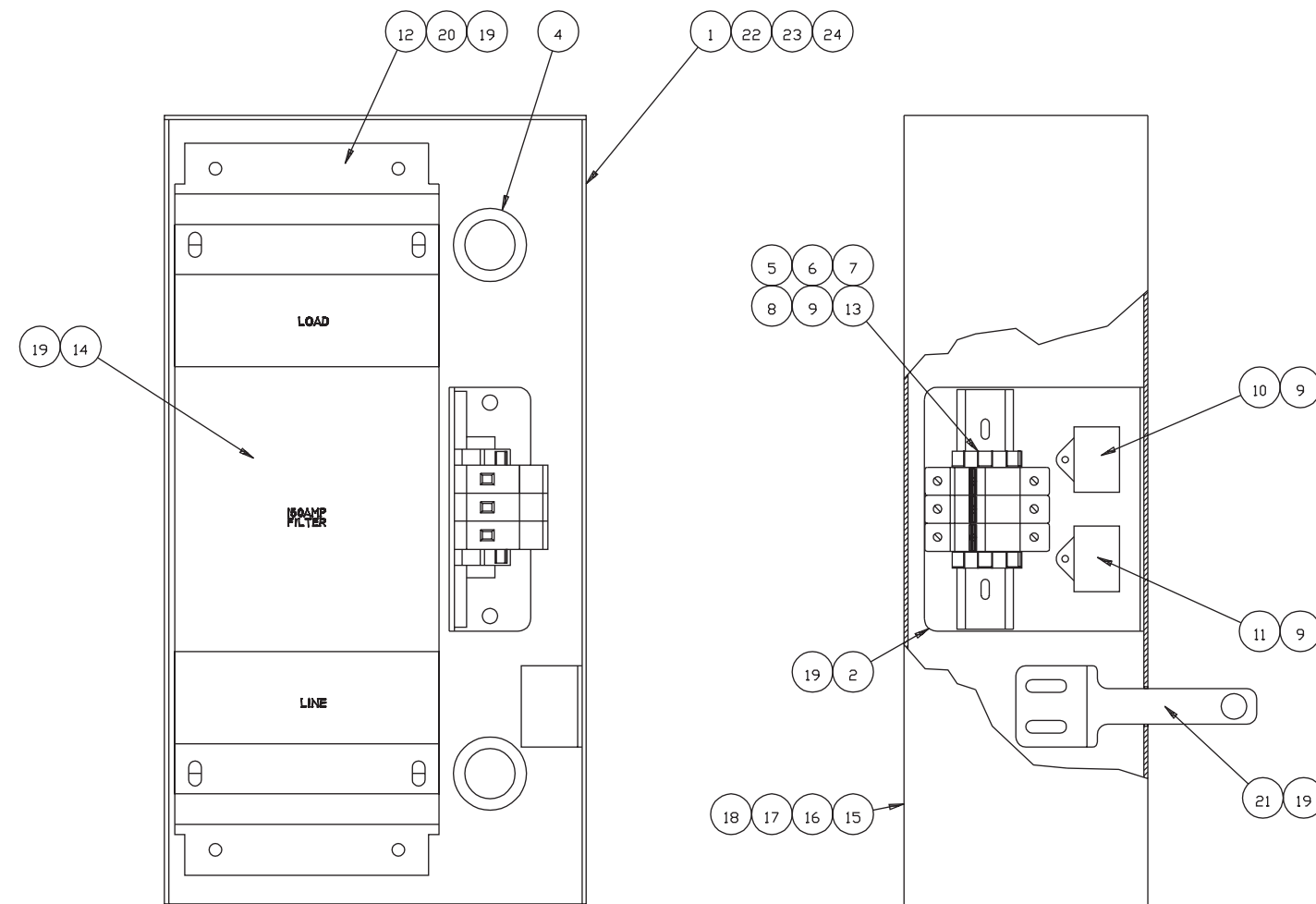


13	CL-0010787-02	1	COUPLING, QUICK COUPLING
12	CL-0010787-01	1	NIPPLE, QUICK COUPLING
11	SB-0010884-S	.02	SEALANT, HYDRAULIC
10	AO-0010786	1	STREET, ELBOW 1/4 NPT
9	CSA-0007703-04	1	UNION, ROTARY COOLANT
8	CL-0002883-01	1	NUT
7	CL-0009259-04	2	SLEEVE
6	CL-0000731-02	1	SHAFT, CARRIER
5	OR-0000810	2	O-RING
4	62-0008231-02	1	RING, RETAINER
3	OR-0004238	4	O-RING 2.375 ID X 0.139 S
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

Electrical Filter Enclosure Assembly

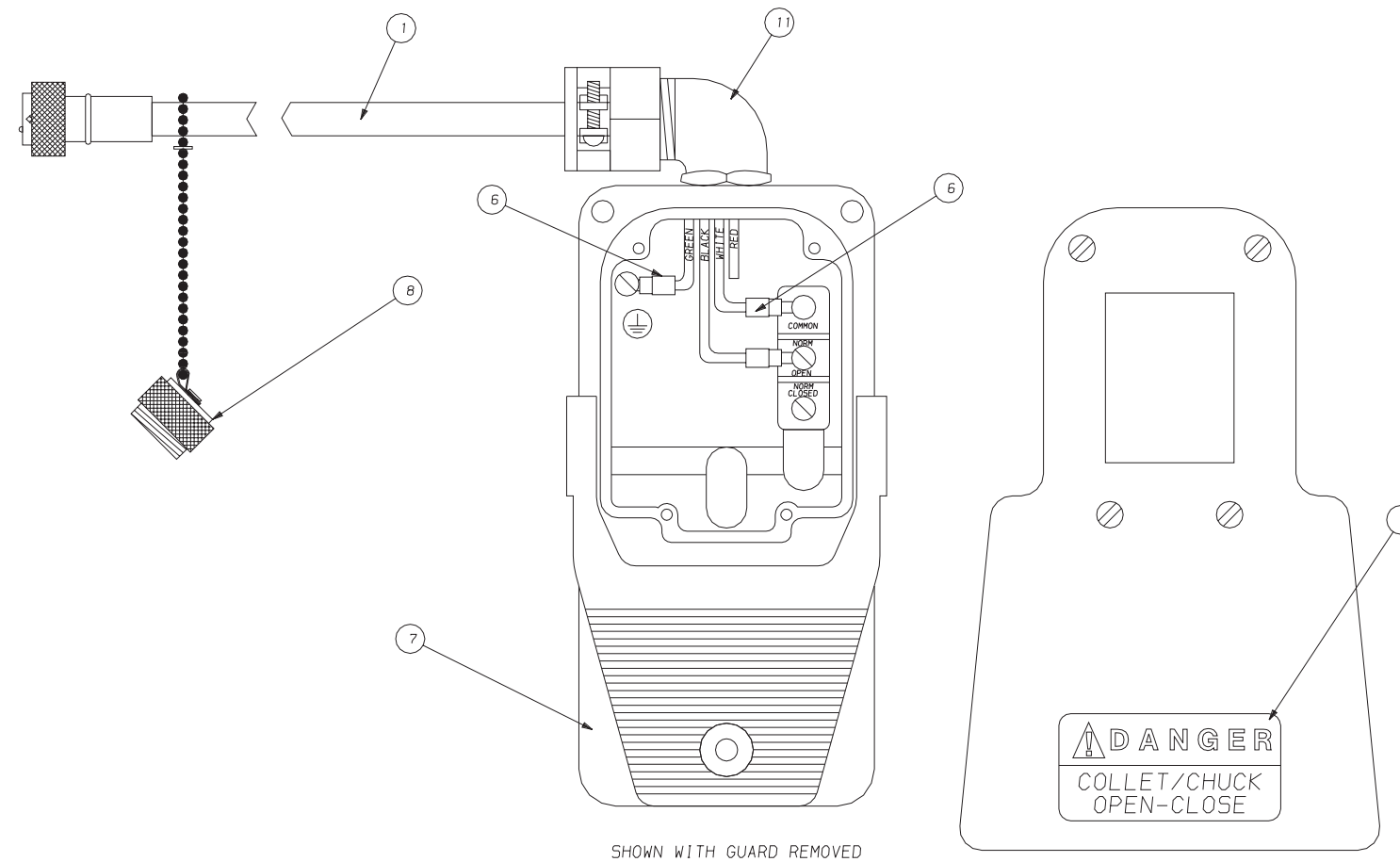


ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	CL 0004158FBB	1.00	SUPPORT, FILTER BDX BOTTOM
2	HG 0004158FB	1.00	BRACKET, FUSE MOUNTING
3	CL 0003279WPF1	1.00	WIRE PACKAGE - FILTER BDX
4	CL 0009532	2.00	GROMMET
5	SG 0010017	1.00	HOLDER, FUSE 3P/W IND.CC FUS
6	HG 001103204	2.00	END STOP
7	CK 9011032	0.15	RAIL, DIN BLANK
8	MW 0263410	2.00	WASHER, EXT. STAR M4
9	MS 0303514	4.00	SCREW, BT. HD. M5 X .8 X 8MM
10	18 001129806	1.00	SUPPRESSOR L-L
11	18 001129807	1.00	SUPPRESSOR L-E
12	CL 0010449LS01	2.00	SHIELD, LEXAN FOR EMI FILTER
13	SG 000961001	3.00	FUSE, 5A CLASS CC
14	18 001129805	1.00	FILTER, EMI NOISE 150 A
15	CL 0004158FBC	1.00	COVER, FILTER BDX
16	MS 0303515SS	16.00	SCREW, BT. HD. M5X.8,X 10MM
17	MW 0103510	16.00	WASHER, FLAT M5 X .8 STEEL
18	MW 0183510	16.00	WASHER, LOCK REG. M5 X .8 SC
19	MN 0283610	12.00	NUT, M6X1.0, SER HEX FLNG
20	5P 0006431 B	4.00	WASHER FOR SWITCH BRACKET
21	HG 0001990CFB	1.00	BRACKET, FILTER BDX
22	MS 0303615SS	8.00	SCREW, BT HD M6X1.0X 10MM SS
23	MW 0103610SS	8.00	WASHER, FLAT M6 STAINLESS ST
24	MW 0183610SS	8.00	LOCKWASHER, M6 STAINLESS STE
25	5160009188RBC	1.00	TERM, 5/16 RING 16-14 AWG

NOT SHOWN

3 25

DATE ASSEMBLY, 150A FILTER ENCLOSURE
 PART NUMBER CL 0003279FBA



SHOWN WITH GUARD REMOVED

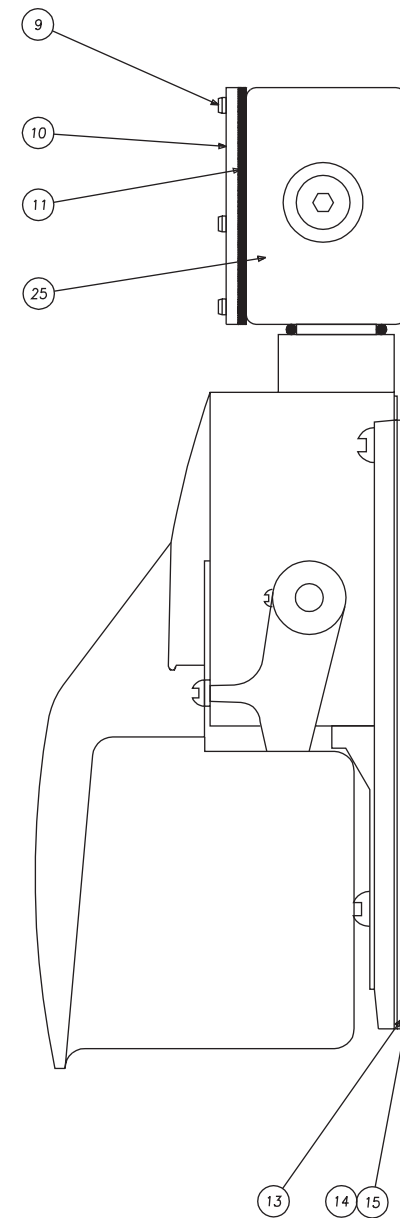
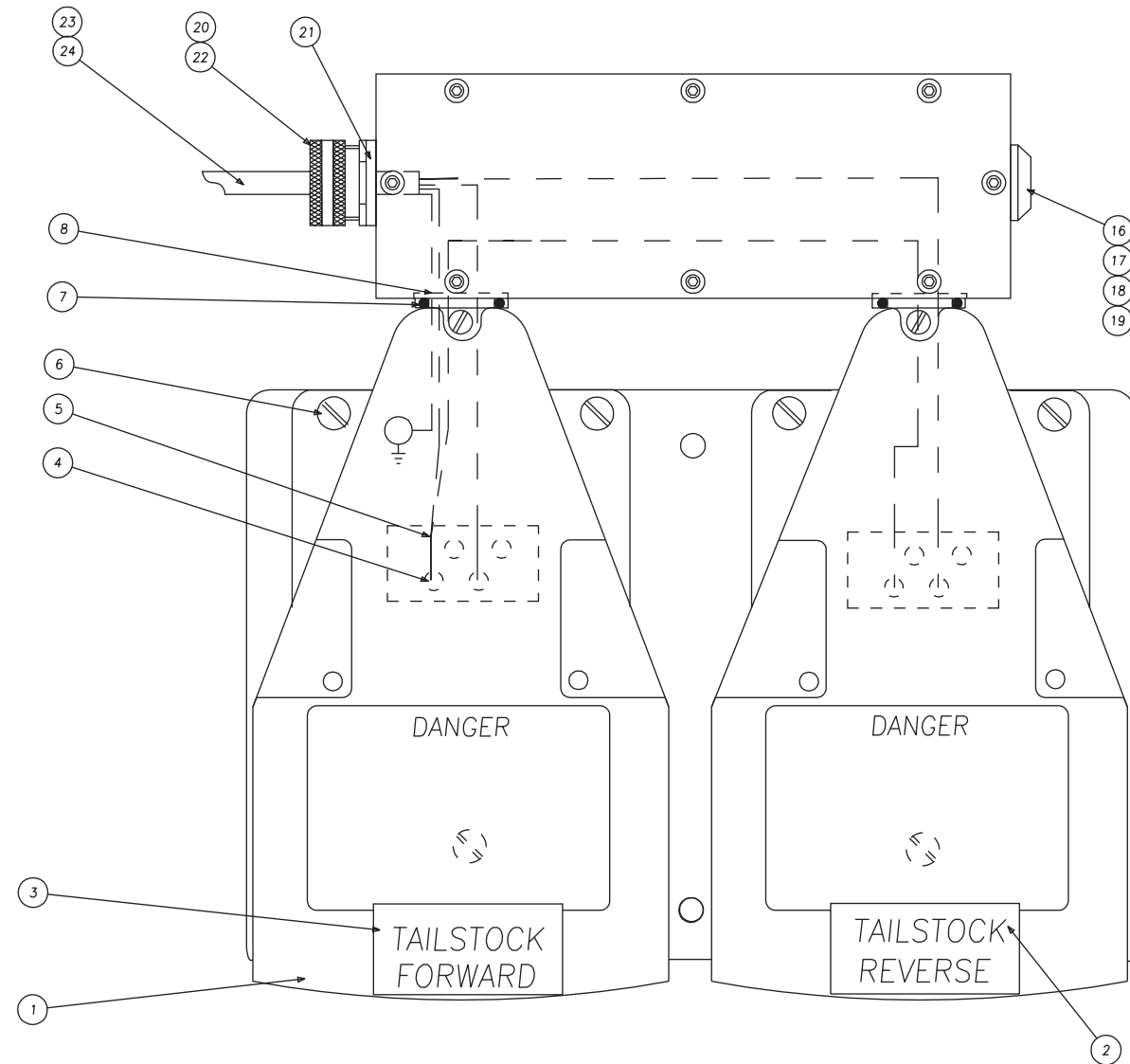
11	HG 0010042	1	STRAIN RELIEF
10	HG 000010004	1	KITTING, PURCHASE PARTS
9	HG-0010366-01	1	TAG
8	C5-0012042-16	1	PLUG
7	HG-0003650-01	1	SWITCH, FOOT
6	863-0009188	3	STAKON
1	CL-0003011-J2	1	CABLE
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
ASSEMBLY, FOOT SWITCH

PART NUMBER
HGA-0003650

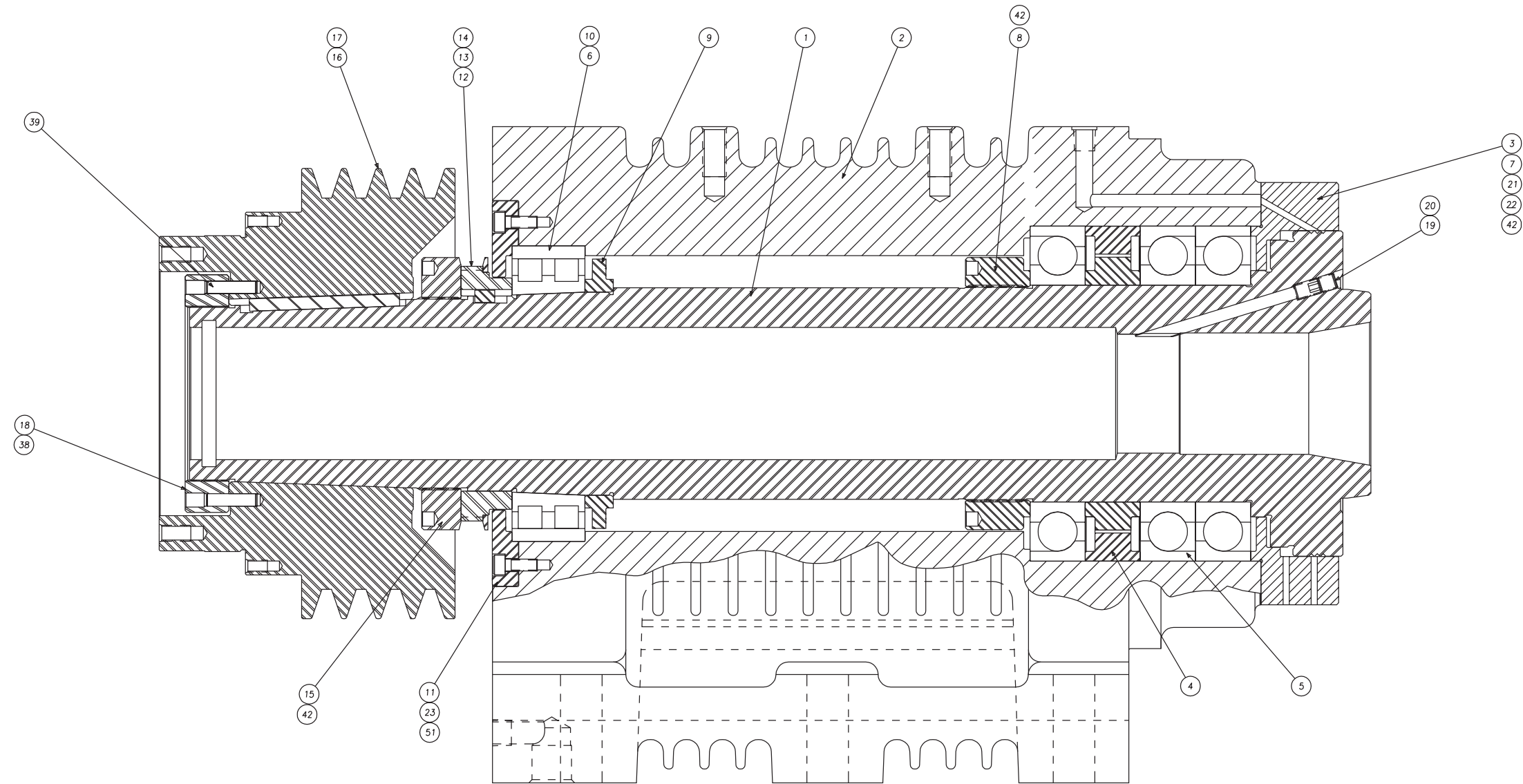
SHEET 1 of 1

Foot Switch, Tailstock



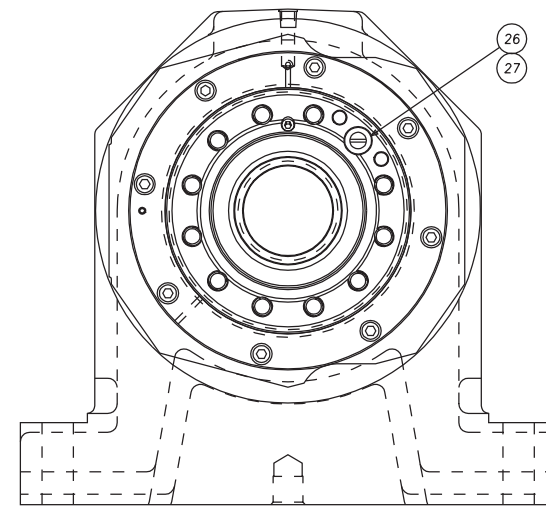
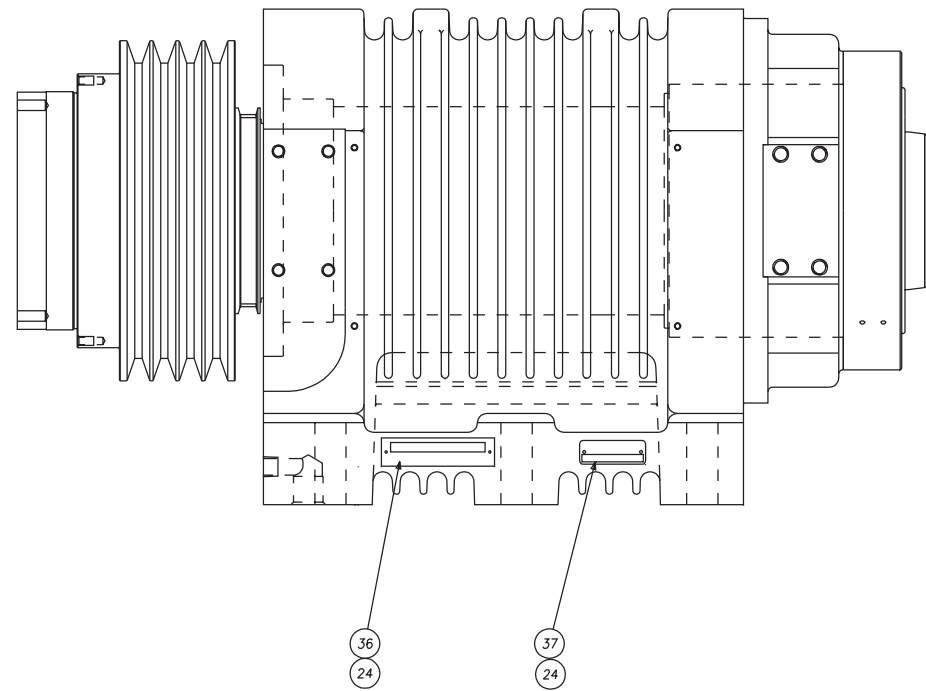
25	CNA-0010475-05	1	BOX, JUNCTION
24	CSD-0012042-16	1	CAP, RECEPTACLE
23	CS-0003011-01	1	CABLE
22	AH-0011508	1	NUT, LOCK
21	50-0010226	1	GASKET
20	31-0009207-50	1	CONNECTOR, CABLE
19	KL-0007876-A	1	WASHER
18	KL-0007876	1	COVER, HOLE
17	5P-0002843 B	1	NUT, HEX
16	OR-0001114	1	O RING
15	3 -0010884-01	1	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
REV 1 of 1



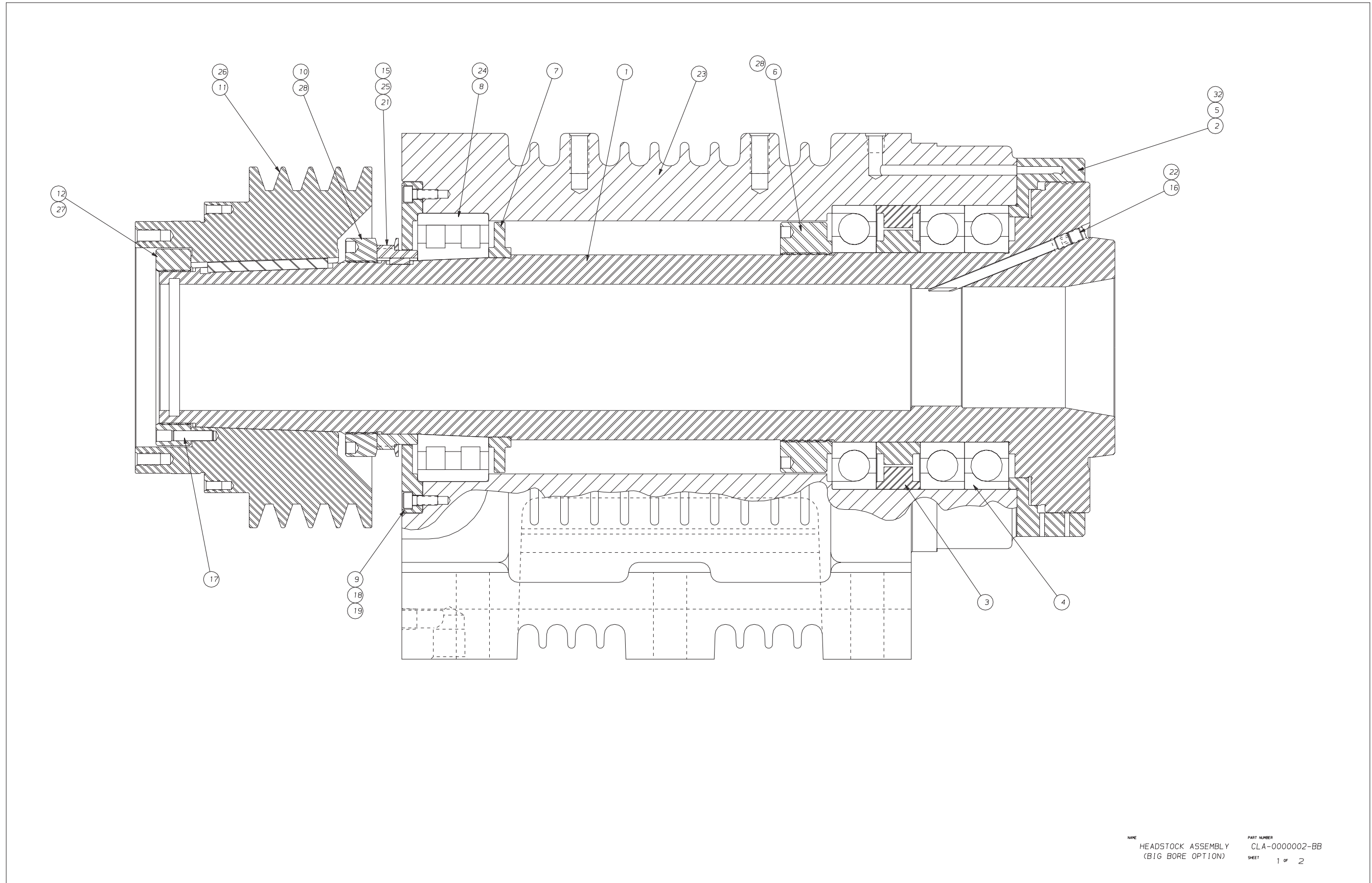
HEADSTOCK ASSEMBLY CL 0000002
1 of 2

Headstock Assembly



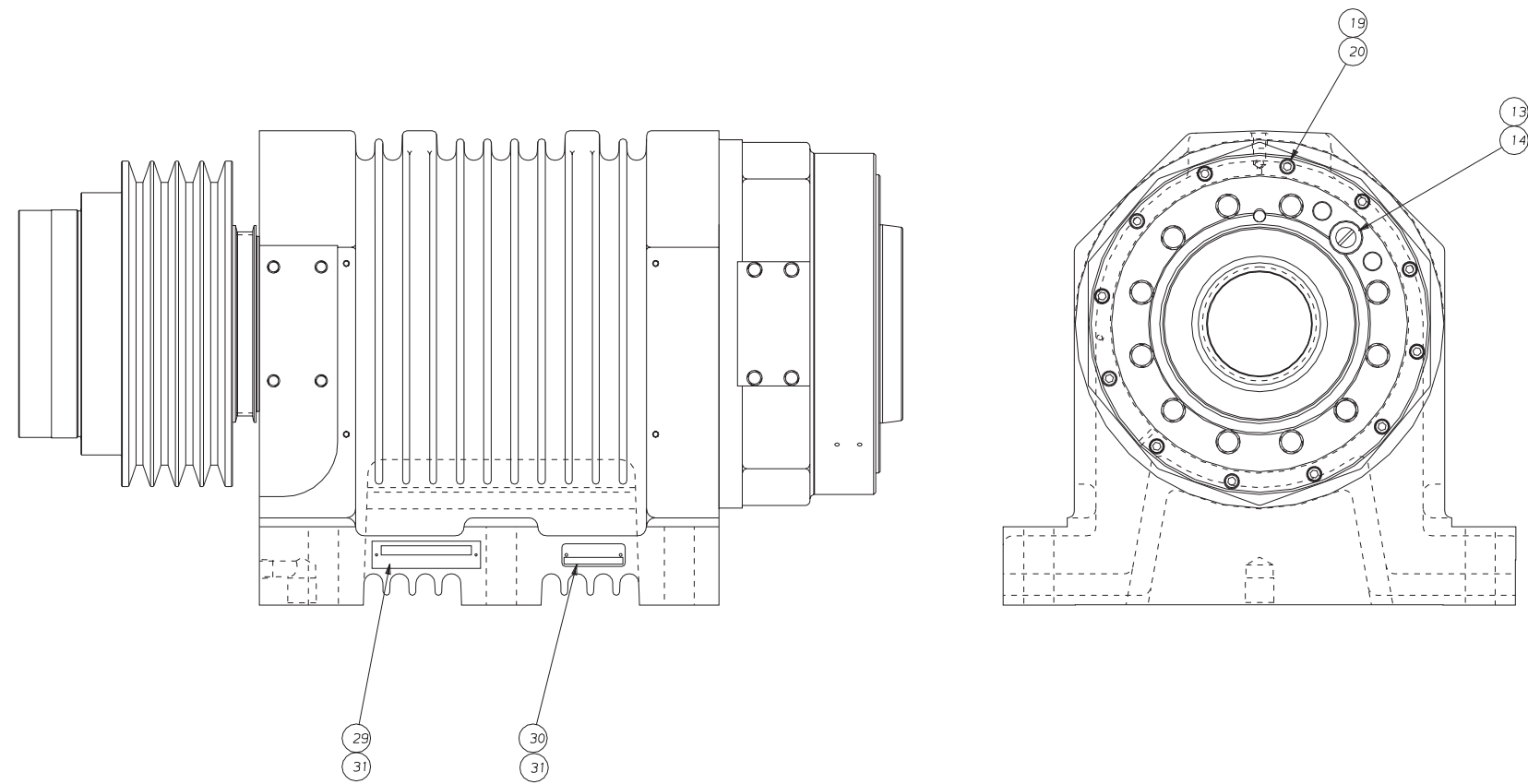
ITEM	PART NUMBER	QTY	DESCRIPTION
51	NC 001088401	.01	LOCTITE #222
42	NC 0010884	.03	LOCTITE #242
39	NT 0006708	2	1/4" DIA x 1" PULLOUT DOW
38	VS 0010440	.01	ANTI-SIEZE
37	CS 0001535 M	1	LABEL MODULE NUMBER
36	KL 0001535	1	PLATE, SERIAL NUMBER
27	CL 0011920	1	BUTTON, DRIVING
26	CL 001192001	1	SCREW, BUTTON
24	R 0008044	4	PIN ESCUTCHEON
23	MS 0103617	6	M6 SCREW, SOC HD CAP 16mm
22	MS 0103823	8	M8 SCREW, SOC HD CAP 45mm
21	CD 0004629	1	PIN, DOWEL
20	MS 0553814	1	M8 SOC SET CUP PT. x 8mm
19	CL 0000284	1	SCREW, COLLET KEY
18	CL 0004068	1	NUT, SPINDLE
17	CL 0006317	1	KEY, PULLEY
16	CL 000405302	1	PULLEY, SPINDLE
15	CL 000406802	1	NUT, SPINDLE
14	CL 000631701	1	KEY, PULLEY TIMING
13	CL 0003177 F	1	FLANGE, PULLEY
12	CL 0003177	1	PULLEY, TIMING
11	CL 000027501	1	CAP, REAR
10	CL 000026501	1	BEARING, CYLINDRICAL ROLL
9	CL 001048102	1	SPACER, BEARING-REAR
8	CL 000406801	1	NUT, SPINDLE
7	CL 001011601	1	GASKET, FRONT CAP
6	HS 0010994SL	8,8	GREASE
5	CL 0000265	1	BEARING, SET
4	CL 0010389	1	SPACER ASSY
3	CL 0000275	1	CAP, FRONT
2	CL 0000264	1	HEADSTOCK
1	CL 0000283	1	SPINDLE

NAME HEADSTOCK ASSEMBLY PART NUMBER CL 0000002 SHEET 2 of 2



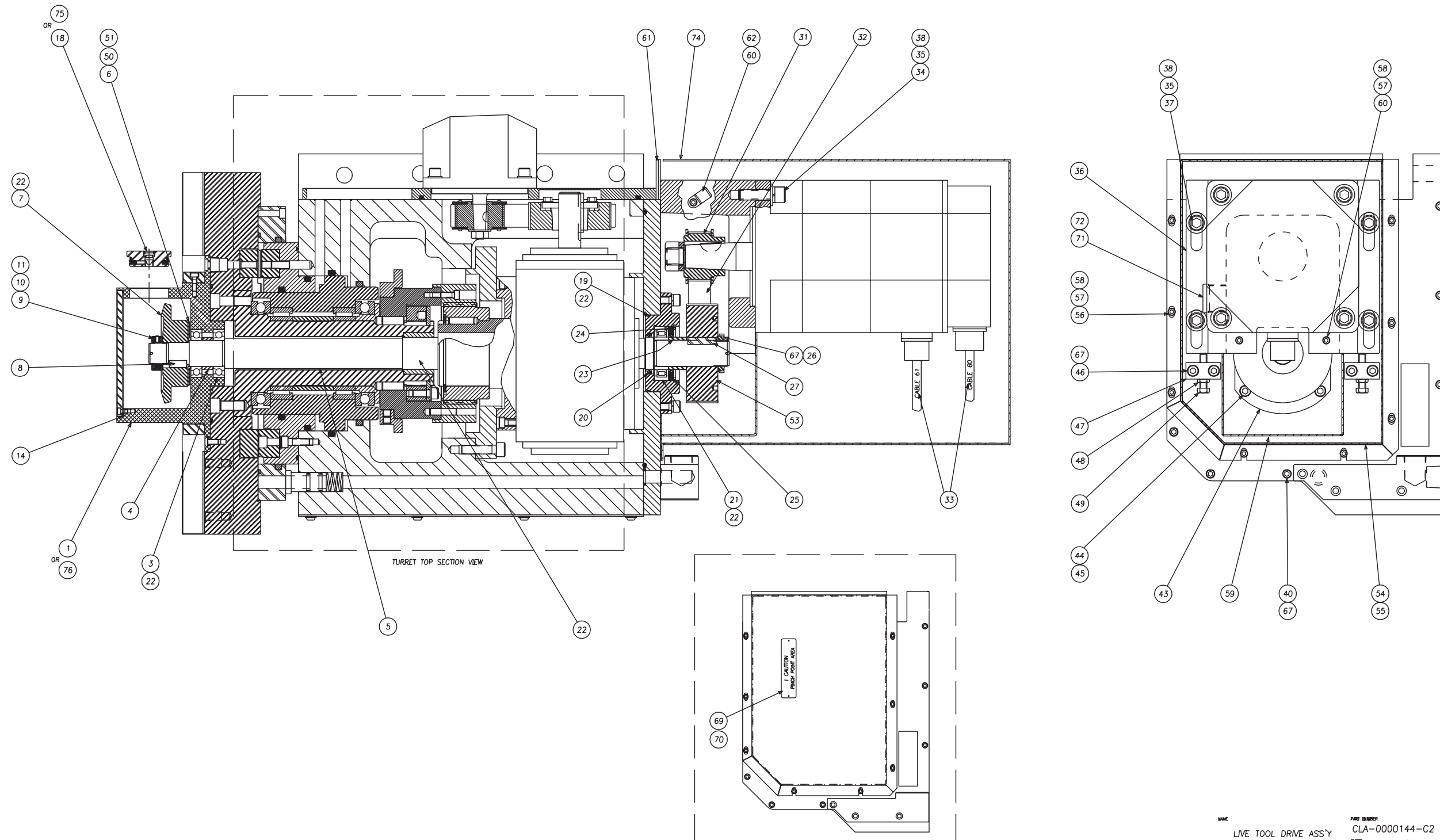
NAME HEADSTOCK ASSEMBLY (BIG BORE OPTION) PART NUMBER CLA-0000002-BB SHEET 1 of 2

Headstock Assembly, Big Bore



32	CD-0004629	1	PIN, DOWEL
31	R-0008044	4	PIN, ESCUTCHEON
30	C5-0001535-M	1	LABEL MODULE NUMBER
29	KL-0001535	1	PLATE, SERIAL NUMBER
28	NC-0010884	.01	LOCTITE 242
27	VS-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 OPTION) PART NUMBER CLA-0000002-BB SHEET 2 of 2



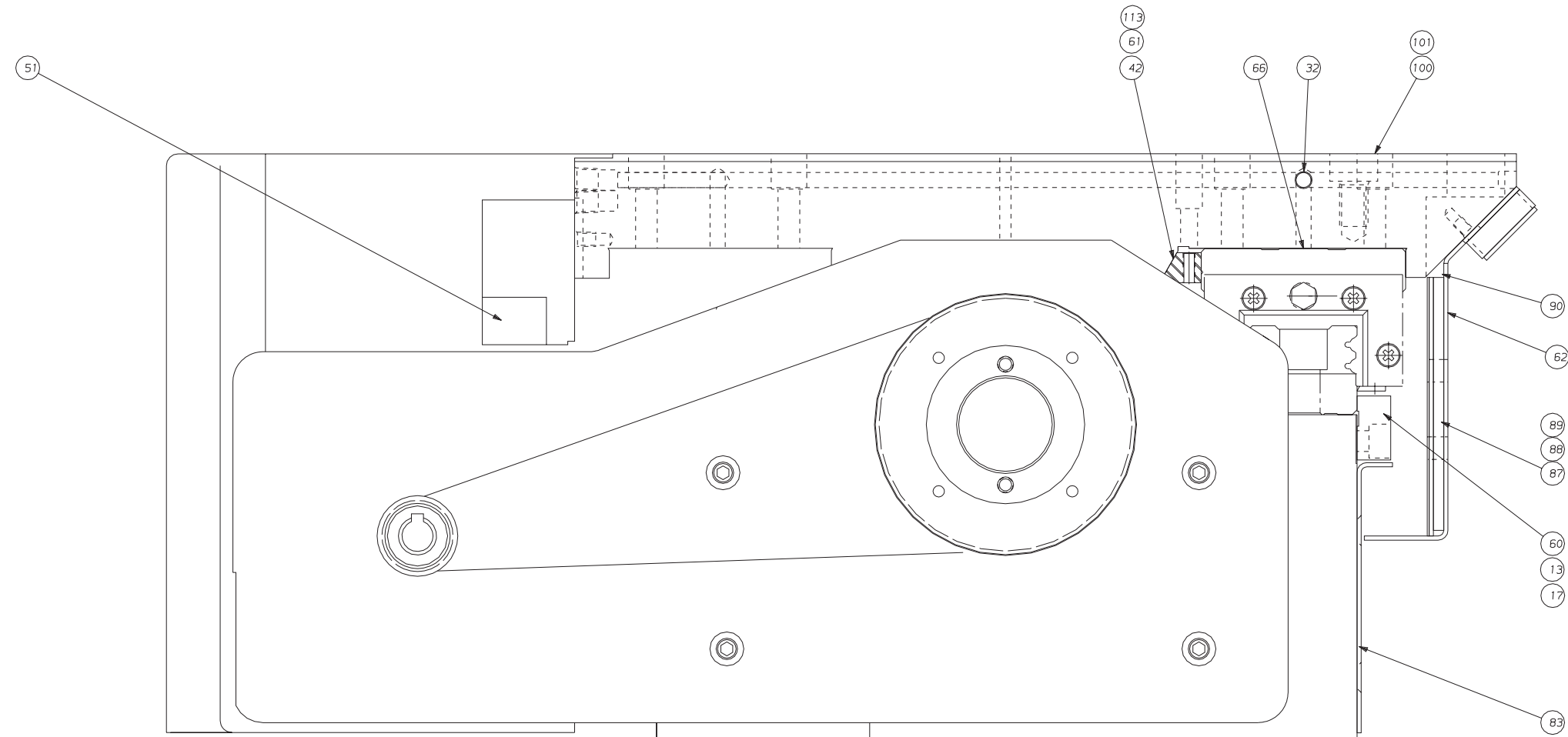
NAME: LIVE TOOL DRIVE ASS'Y
 PART NUMBER: CLA-0000144-C2
 SHEET: 1 of 2

Live Tooling 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	LO-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

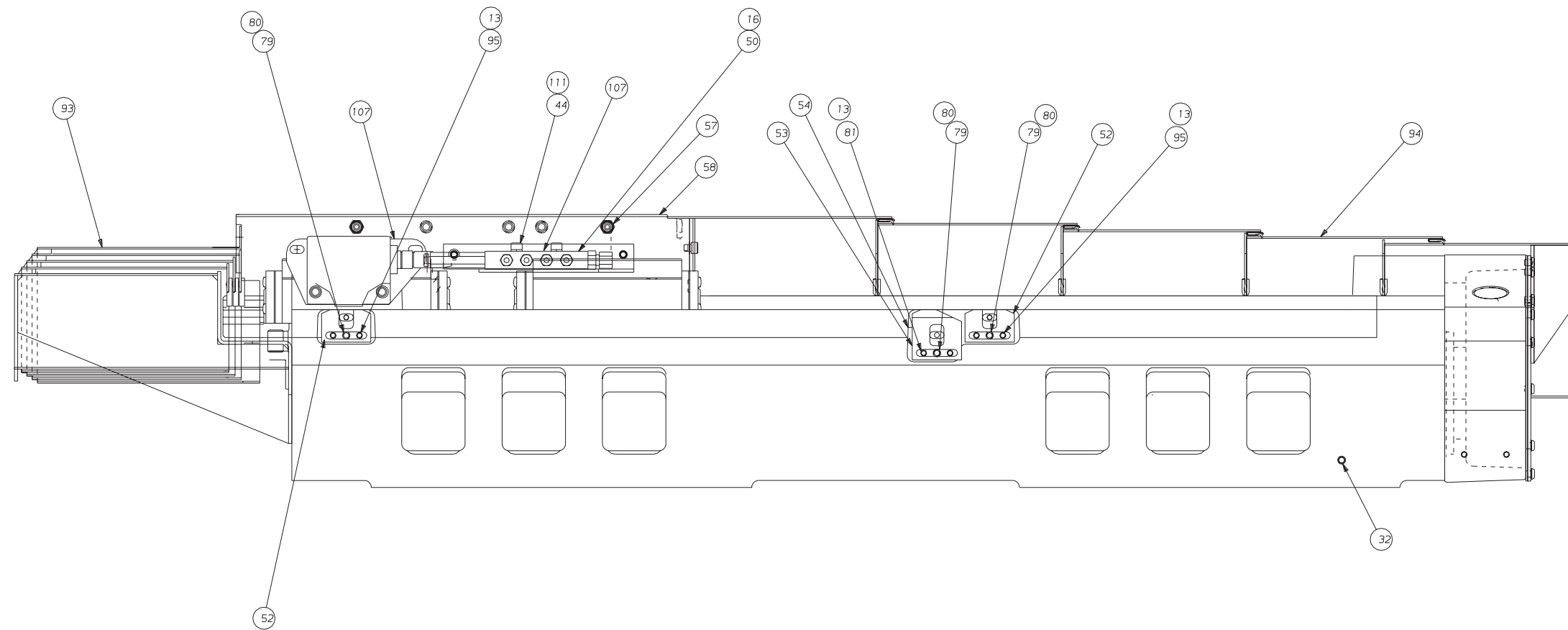
PART NUMBER
CLA-0000144-C2
SHEET 2 of 2



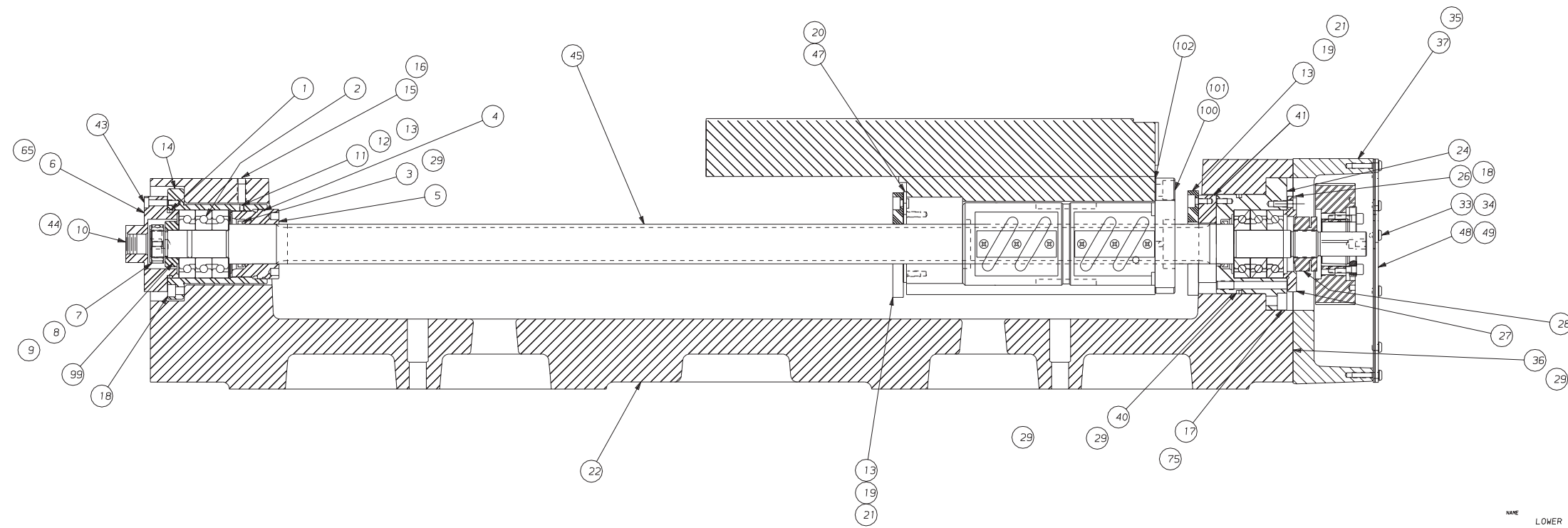
SECTION A-A
(SEE SHEET #4)
WORKING END OF SUBSPINDLE

NAME LOWER AXIS ASSEMBLY PART NUMBER CL 0006730BS
BALL SCREW DRIVEN SUB-SPINDLE SHEET 1 of 5

Lower Axis Drive, Ball Screw Sub-Spindle

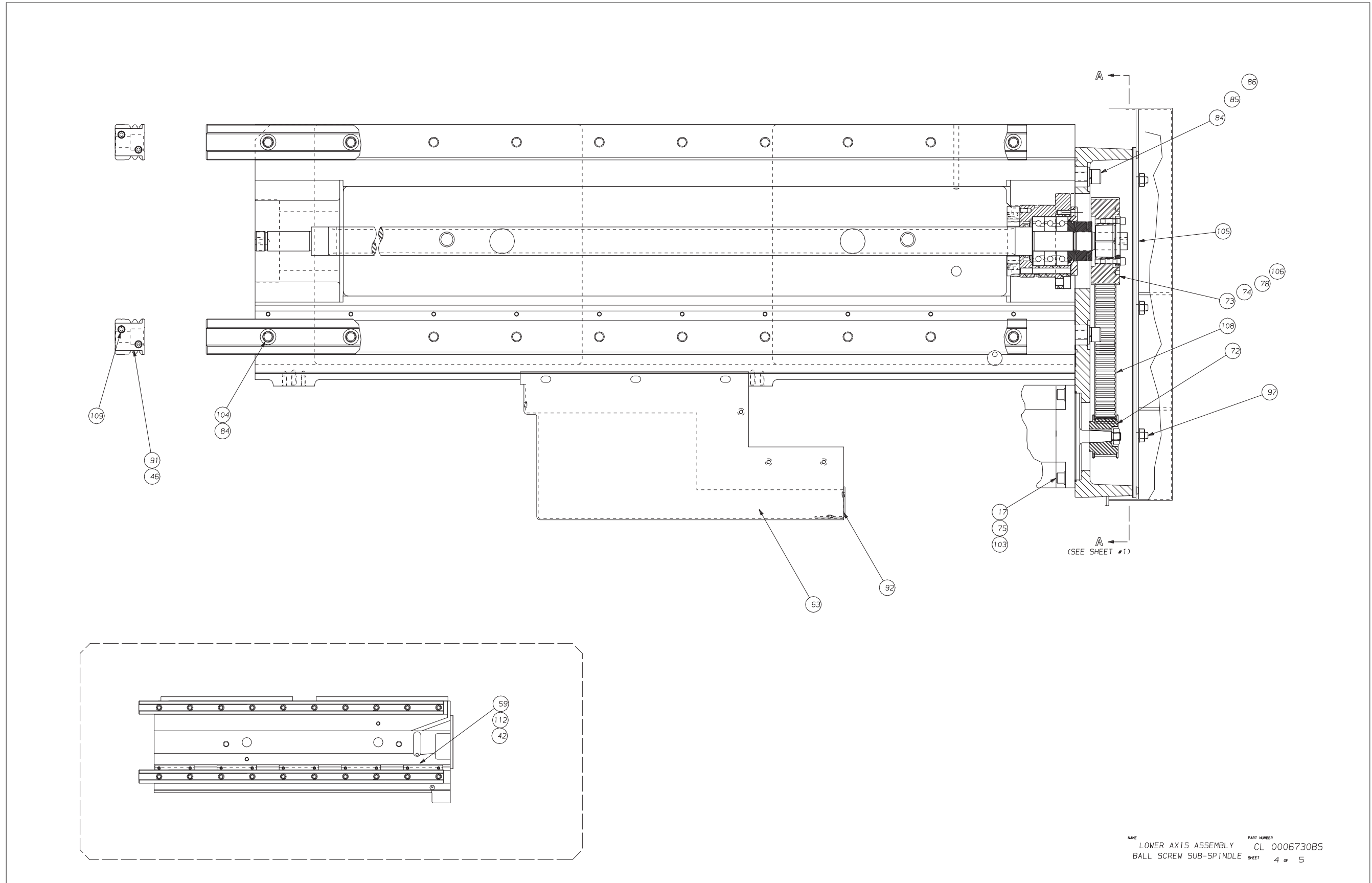


NAME LOWER AXIS ASSEMBLY PART NUMBER CL 0006730BS
BALL SCREW DRIVEN SUB-SPINDLE SHEET 2 of 5



NAME LOWER AXIS ASSEMBLY PART NUMBER CL 0006730BS
BALL SCREW DRIVEN SUB-SPINDLE SHEET 3 of 5

Lower Axis Drive, Ball Screw Sub-Spindle



NOT SHOWN

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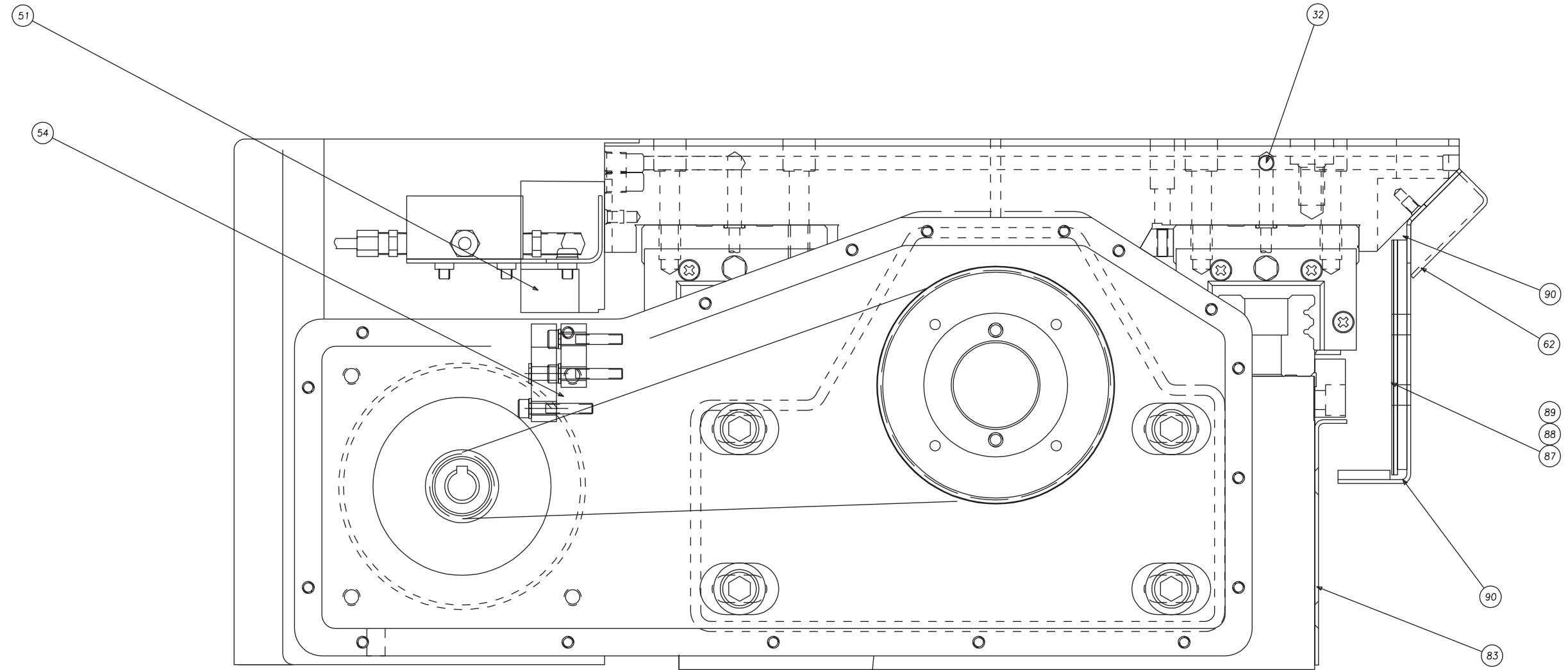
17

113	MS 0103520	8	SCREW, SHC M5 X 30mm
112	MS 0103518	10	SCREW, SHC M5 X 20mm
111	MS 0103522	4	SCREW, SHC M5 X 40mm
109	MS 0103515	4	SCREW, SKHD CAP M5x10mm
108	CL 0003346LA01	1	BELT, LOWER AXIS
107	SG 000399041T	2	MOUNT, SUB-SPINDLE LUBE
106	MW 0263610	4	WASHER, STAR EXT M6
105	6 0010331	1	PLUG CAP
104	CL 0010331	20	PLUG, LIN GUIDE RAIL 12mm
103	MW 0103810	4	WASHER, FLAT REG M8
102	6 0009431	1	O-RING
101	MW 0194010	12	WASHER, LOCK M10
100	MS 0104019	12	SCREW, SKHD CAP M10x25mm
99	CL 001082801	1	SPACER
97	MW 0104010	9	WASHER, FLAT REG M10
95	MS 0496016	4	SCREW, SH SHOULDER M5x12m
94	CL 0010115LR	1	WAYCOVER, LOWER AXIS REAR
93	CLA0010115LF	1	WAYCOVER, LWR AXIS FRONT
92	CL 000499055	1	BRACKET
91	CL 0008316E	2	EXTENSION, RAIL
90	GE 0010884	1	SEALANT, SILICONE
89	CL 001011682	1	GASKET, WAY COVER
88	CL 000399087	1	SPACER, WAY COVER
87	CL 000399088	1	SPACER, WAY COVER
86	MW 0104210 H	4	WASHER, FLAT HARDENED M12
85	MW 0194210	4	WASHER, LOCK SQ M12
84	MS 0104222	24	SCREW, SKHD CAP M12x40mm
83	CL 0010215LA	1	COVER, CASTING SIDE
81	MS 0496018	2	SCREW, SKHD SHOULDER M5x2
80	MS 0103630	3	SCREW, SKHD CAP M6x80mm
79	MW 0103610	3	WASHER, FLAT M6
78	MS 0103620	4	SCREW, SKHD CAP M6x30mm
75	MW 0193810	29	WASHER, LOCK SQ M8
74	SGA0011682	1	PULLEY BUSHING
73	CL 000317764	1	DRIVE PULLEY 64T
72	CL 0003177321A	1	ASSEMBLY, 32T PULLEY
ITEM	PART NUMBER	QTY	DESCRIPTION

66	OR 0000406	1	O-RING
65	OR 0006870	1	O-RING
63	CL 001021571	1	COVER, LUBE ASSEMBLY
62	CLA001021566	1	COVER, CARRIAGE
61	CL 0006481	1	GIB, TAKE UP
60	CL 0006481 C	2	CLAMP, LINEAR GUIDE
59	CL 00000648155	5	GIB, GUIDE RAIL
58	CL 000037185	1	CARRIAGE-RAM TURRET BALLS
57	HG 001125904	1	ADAPTER, STRAIGHT
54	CL 000179906	1	SPACER, DOG
53	CL 000057103	1	DOG, HOME
52	CL 000057104	2	DOG, OVER-TRAVEL
51	CL 000283401	1	LIMIT SWITCH ASSEMBLY
50	SGA001021511	1	MOUNT, LUBE BLOCK
49	CL 001011676	1	GASKET, DRIVE HOUSING
48	CL 001021558	1	COVER, DRIVE HOUSING
47	CL 000199023	1	MOUNT, X AXIS BUMPER
46	CLB000831608	2	LINEAR WAYS, Z2-AXIS PREC
45	CL 0001902	1	BALL SCREW, Z AXIS
44	NC 0010884	1.01	LOCTITE ADHESIVE
43	MS 0103517	4	SCREW, SKHD CAP M5x16mm
42	MW 0193510	18	WASHER, LOCK SQUARE M5
41	SG 0011976LA	1	STOP, LOWER AXIS FORWARD
40	OR 0005256	1	O-RING
37	CL 0006001	1	CARRIAGE DRIVE HOUSING
36	OR 0167171	1	O-RING
35	HM 0009215	1	PLUG, ALLEN HEX SOC. PIPE
34	MW 0263510	1	WASHER, STAR EXT M5
33	MS 0303516	1	SCREW, BUTTON HD SOC M5x1
32	S 001070007	2	LEE PLUG
29	CS 0010994	2.7	GREASE
28	CSA0000492	1	NUT, ADJUSTABLE SPIETH
27	CS 001119814	1	SEAL, LABYRINTH
26	CSA0011137	1	RETAINER, BEARING
24	CL 0011776LAR	1	HOUSING, BRG LWR AXIS
22	CLA0000262LA	1	BED, RAM TURRET
21	MS 0303515	20	SCREW, BUTTON HD SOC M5x1
20	CL 0010679	1	SPACER
19	CSA0011976	2	BUMPER
18	MS 0103618	5	SCREW, SHC M6 X 20mm
17	MS 0103819	19	SCREW, SHC M8 X 25mm
16	SB 0010884 S	1.01	SEALANT, HYDRAULIC
15	MS 0553815	1	SCREW, SOC SET CUP PT M8x
14	CL 0011776LAF	1	HOUSING, BRG LWR AXIS FRO
13	NC 001088401	1.54	ADHESIVE, LOCTITE #222
12	MS 0553411	1	SCREW, SOC SET CUP PT M4x
11	BP 0000402	1	PLUG, BRASS
10	MS 0575018	1	SCREW, SKS FL PT M20x20mm
9	MS 0553512	1	SCREW, SOC SET CUP M5x5mm
8	CH 0004732	1	PLUG, BRASS
7	CS 000026005	1	NUT, LOCK
6	CL 000034304	1	RETAINER, BEARING
5	CL 0000492	1	NUT, ADJUST. SHOULDER
4	CS 000943125	1	O-RING
3	CS 001119803	2	CR #12710 SEAL
2	CSA00004140	6	BEARING, BALL
1	CS 000943101	1	"O" RING
ITEM	PART NUMBER	QTY	DESCRIPTION

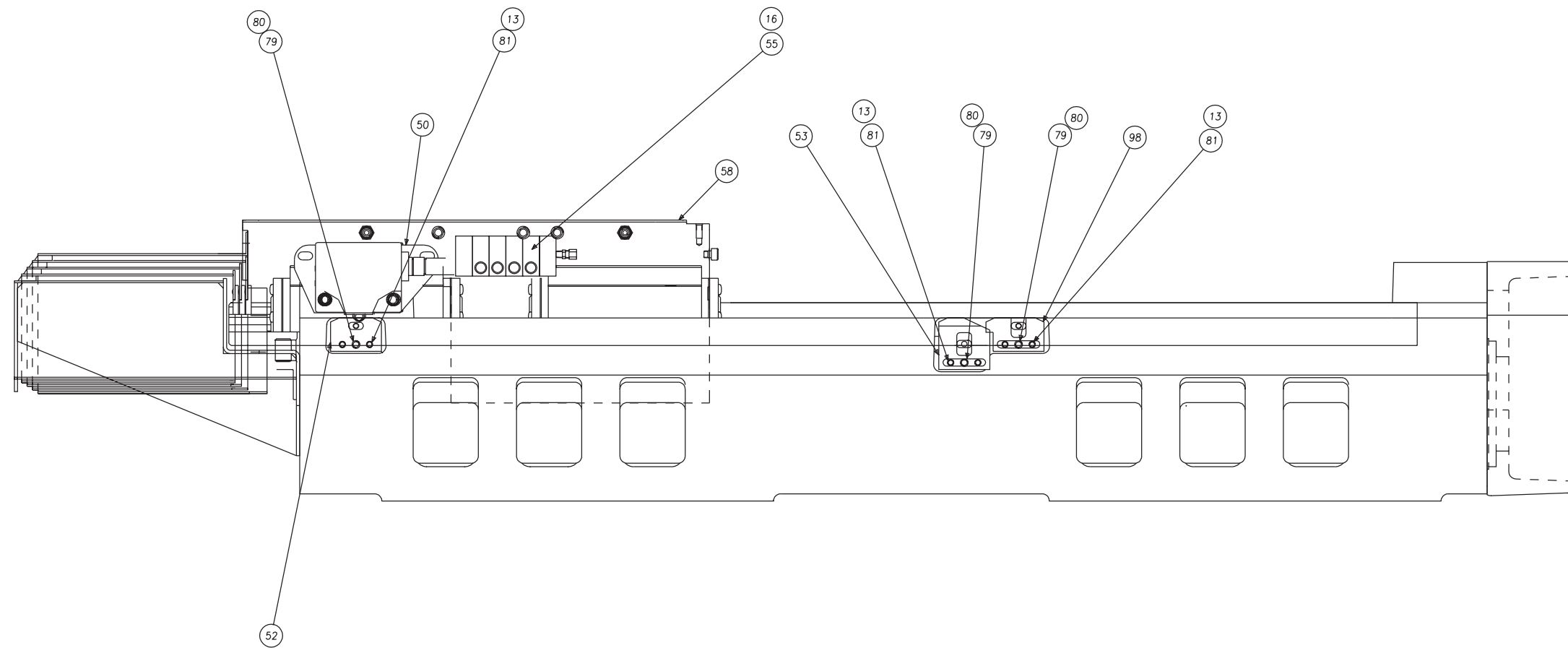
NAME LOWER AXIS ASSEMBLY PART NUMBER CL 0006730BS
 BALL SCREW DRIVEN SUB-SPINDLE SHEET 5 of 5

Lower Axis Drive, End-Working Turret



SECTION A-A

NAME	LOWER AXIS DRIVE ASSEMBLY	PART NUMBER	CLA-0006730-RT
	BALL SCREW - RAM TURRET		
		SHEET	1 of 6

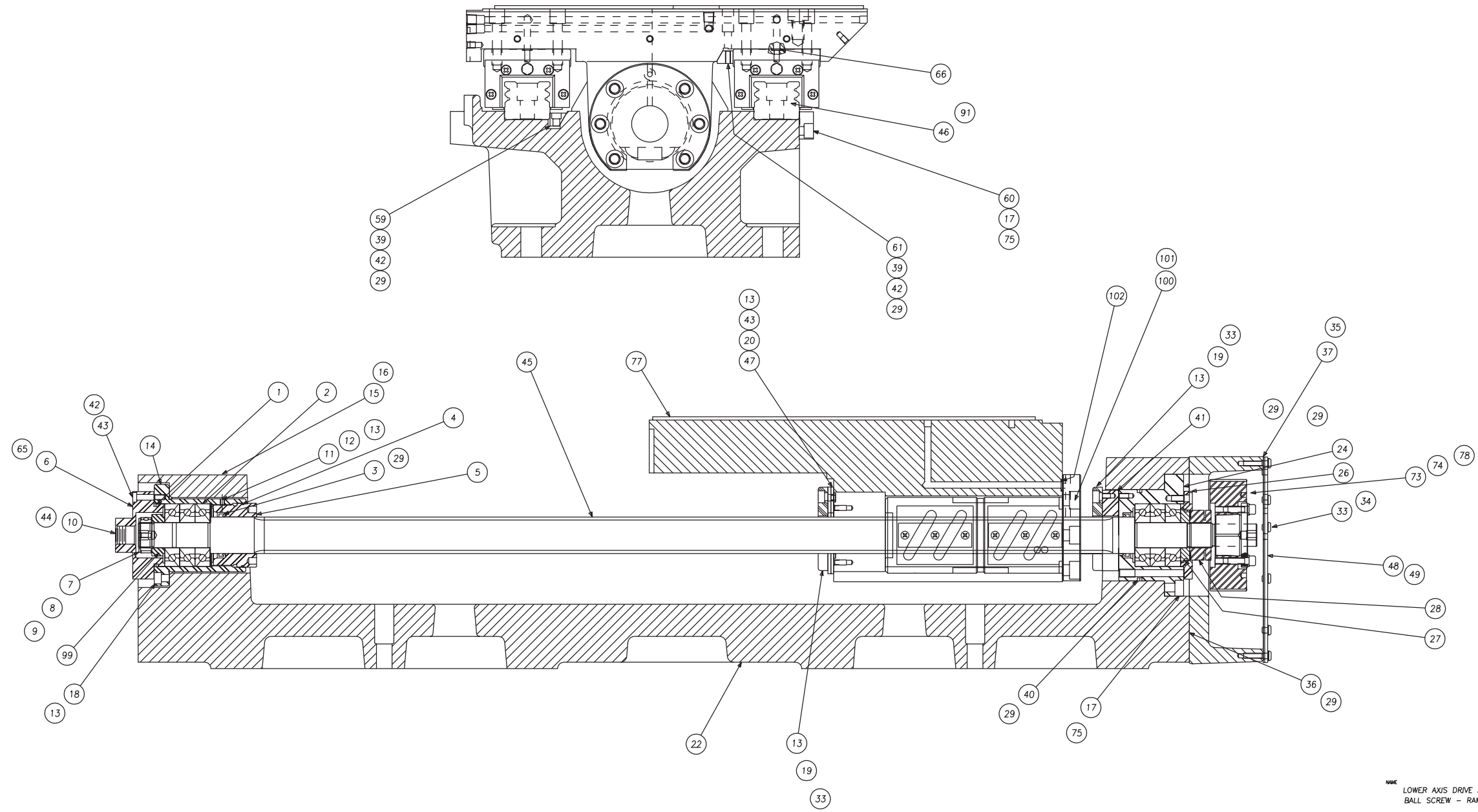


NAME LOWER AXIS DRIVE ASSEMBLY
BALL SCREW - RAM TURRET

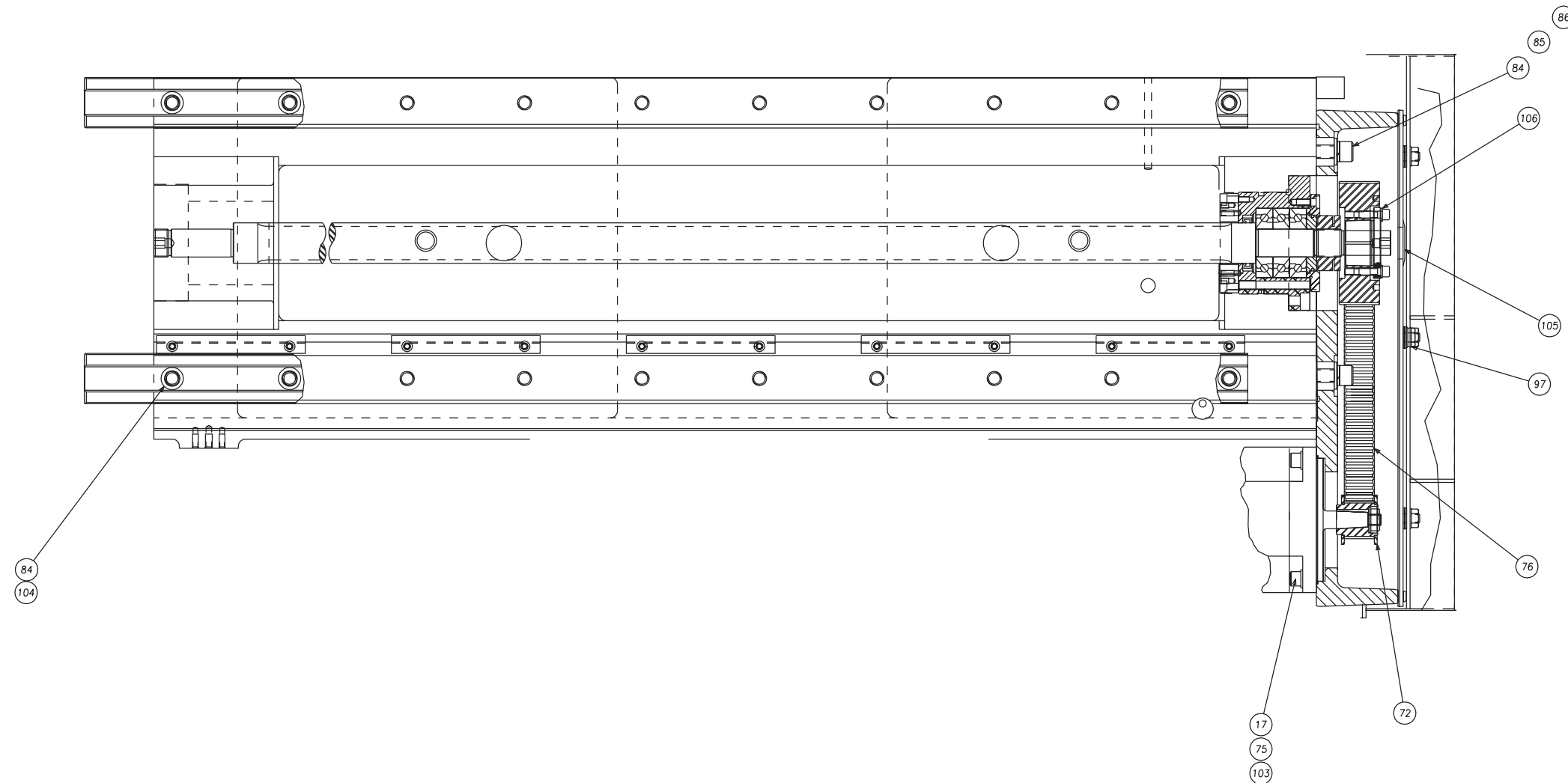
PART NUMBER
CLA-0006730-RT

SHEET 2 of 6

Lower Axis Drive, End-Working Turret

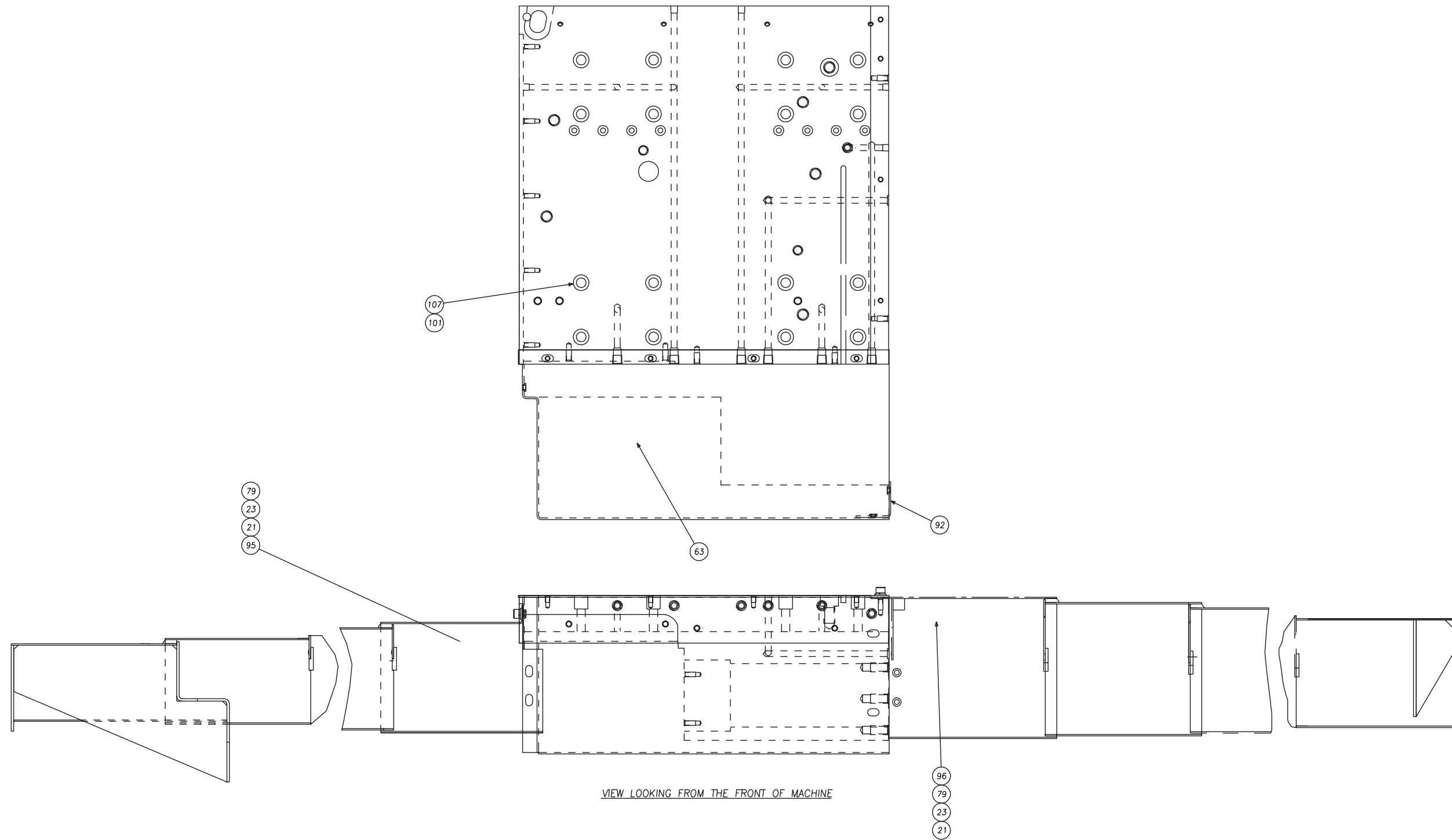


NAME LOWER AXIS DRIVE ASSEMBLY
BALL SCREW - RAM TURRET
PART NUMBER CLA-0006730-RT
SHEET 3 of 6



VIEW LOWER AXIS DRIVE ASSEMBLY
VIEW BALL SCREW - RAM TURRET
FIG. NUMBER CLA-0006730-RT
REV 4 of 6

Lower Axis Drive, End-Working Turret

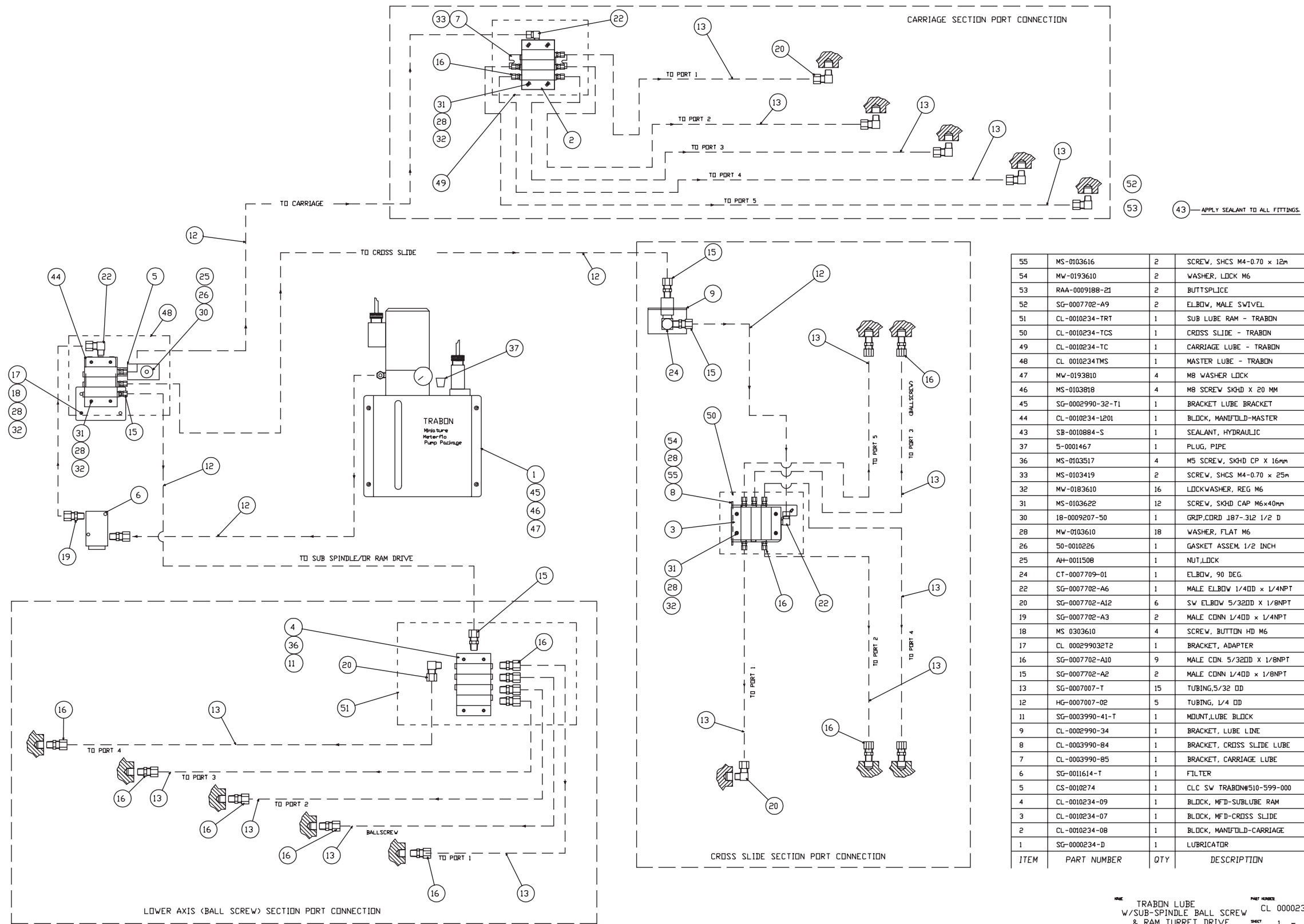


NAME LOWER AXIS DRIVE ASSEMBLY PART NUMBER
BALL SCREW - RAM TURRET CLA-0006730-RT
SHEET 5 of 6

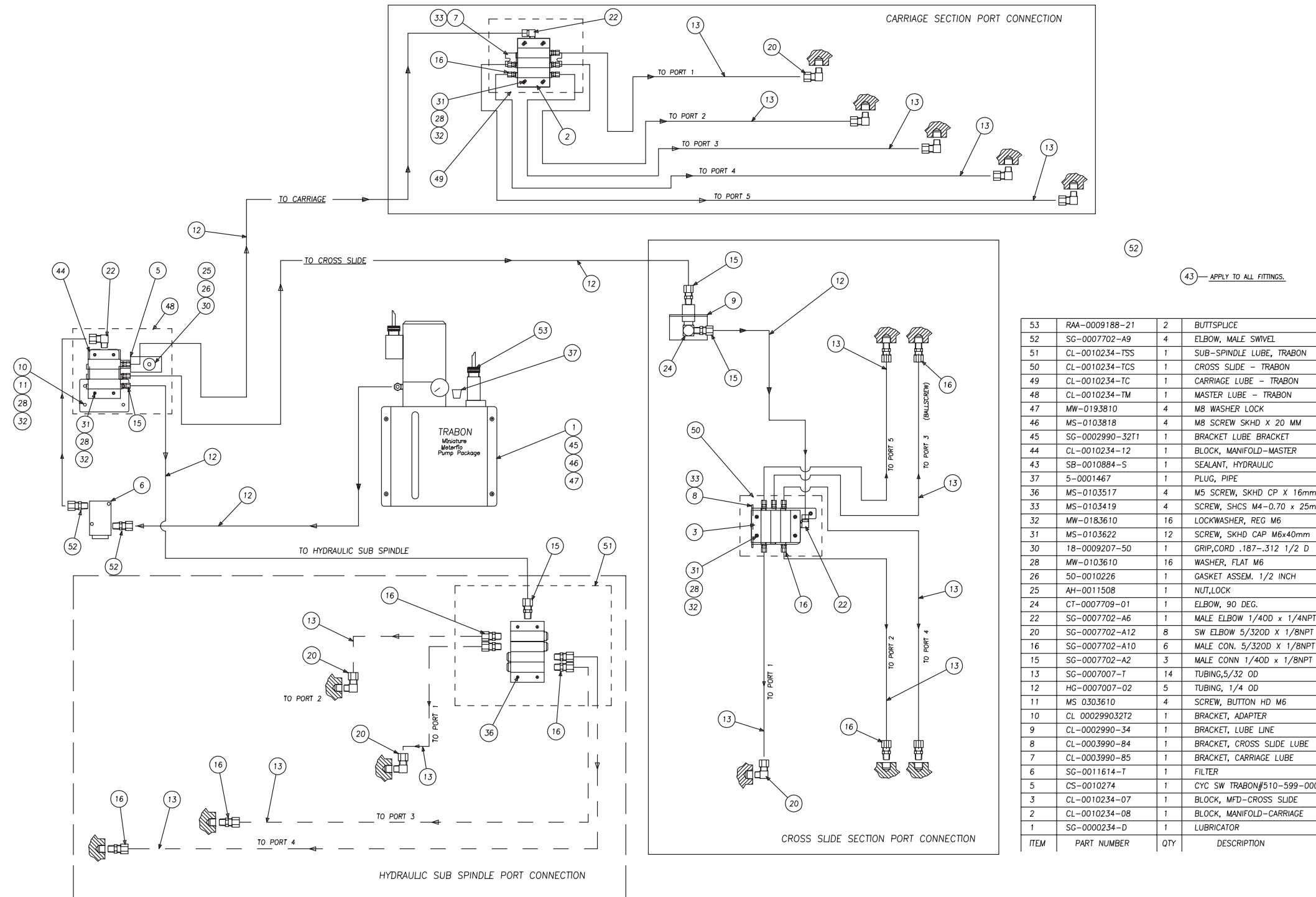
63	CLA-0010215-57	1	COVER, LUBE ASSEMBLY
62	CLA-0010215-55	1	COVER, CARRIAGE
61	CL-0006481	2	GIB, TAKE UP
60	CL-0006481-C	2	CLAMP, LINEAR GUIDE
59	CL-0006481-SS	5	GIB, GUIDE RAIL
58	CL-0000371-LA	1	CARRIAGE, LOWER AXIS
55	SG-0003990-41-T	1	MOUNT, LUBE BRACKET
54	CL-0001799-06	1	SPACER, DOG
53	CL-0000571-03	1	DOG, HOME
52	CL-0000571	1	DOG, OT
51	CL-0002834-01	1	LIMIT SWITCH ASSEMBLY
50	SGA-0010215-11	1	MOUNT, LUBE BLOCK
49	CL-0010116-76	1	GASKET, DRIVE HOUSING
48	CL-0010215-58	1	COVER, DRIVE HOUSING
47	CL-0001990-23	1	MOUNT, X AXIS BUMPER
46	CLA-0008316-08	1	LINEAR WAYS, Z-2 AXIS
45	CL-0001902	1	BALL SCREW, Z AXIS
44	NC-0010884	1	LOCTITE ADHESIVE
43	MS-0103517	5	SCREW, SHCS M5X.8
42	MW-0193510	19	WASHER, LOCK DIN-7980 M5
41	SG-0011976-LA	1	STOP, LOWER AXIS FORWARD
40	OR-0005256	1	O-RING
39	MS-0103520	18	SCREW, SHCS M5X.8
37	CL-0006001	1	CARRIAGE DRIVE HOUSING
36	OR-0167171	1	O-RING
35	HM-0009215	1	PLUG, ALLEN HEX SOC. PIPE
34	MW-0263510	18	WASHER, M5
33	MS-0303516	24	SCREW, BUT HD M5X.8
32	S-0010700-07	5	PLUG, LEE
29	CS-0010994	4	GREASE
28	CSA-0000492	1	NUT, ADJUSTABLE SPIETH
27	CS-0011198-14	1	SEAL, LABYRINTH
26	CSA0011137	1	RETAINER, BEARING
24	CL-0011776-LA-R	1	HOUSING, BRG LWR AXIS
23	MW-0193610	8	M6 WASHER, LOCK
22	CL-0000262-LA	1	BED, LOWER AXIS
21	MS-0103617	8	SCREW, SHCS M6X1.0X16
20	CL-0010679	1	SPACER
19	CSA-0011976	2	BUMPER
18	MS-0103618	4	SCREW,SHCS M6X1.0X20
17	MS-0103819	16	SCREW, SHCS M8X1.25
16	SB-0010884-S	1	SEALANT, HYDRAULIC
15	MS-0553815	1	SCREW, SOC SET CUP M8X1.2
14	CL-0011776-LA-F	1	HOUSING, BRG LWR AXIS FRO
13	NC-0010884-01	0	ADHESIVE, LOCTITE #222
12	MS-0553411	1	SCREW, SET M4X.7X4MM
11	BP-0000402	1	PLUG, BRASS
10	MS-0575018	1	SCREW,M20X2.5X20MM SET=FL
9	MS-0553512	1	SCREW, SOC SET CUP M5X.8X
8	CH-0004732	1	PLUG, BRASS
7	CS-0000260-05	1	NUT LOCK
6	CL-0000343-04	1	RETAINER, BEARING
5	CL-0000492	1	NUT, ADJUST. SHOULDER
4	CS-0009431-25	1	O-RING
3	CS-0011198-03	2	CR #12710 SEAL
2	CSA0004140	6	BEARING, BALL
1	CS-000943-01	1	"O" RING
73	CL-0003177-70	1	DRIVEN PULLEY 70T, 5MM PI
72	CL-0003177-21-A	1	MOTOR PULLEY, 21T, 5MM PI
66	OR-0000406	4	O-RING
65	OR-0006870	1	O-RING

NAME LOWER AXIS DRIVE ASSEMBLY PART NUMBER
 BALL SCREW - RAM TURRET CLA-0006730-RT
 SHEET 6 of 6

Lubrication System, Machine with Ball Screw Sub-Spindle or End-Working Turret



TRABON LUBE
W/SUB-SPINDLE BALL SCREW & RAM TURRET DRIVE
PART NUMBER
CL 0000234TRT
SHEET 1 of 1

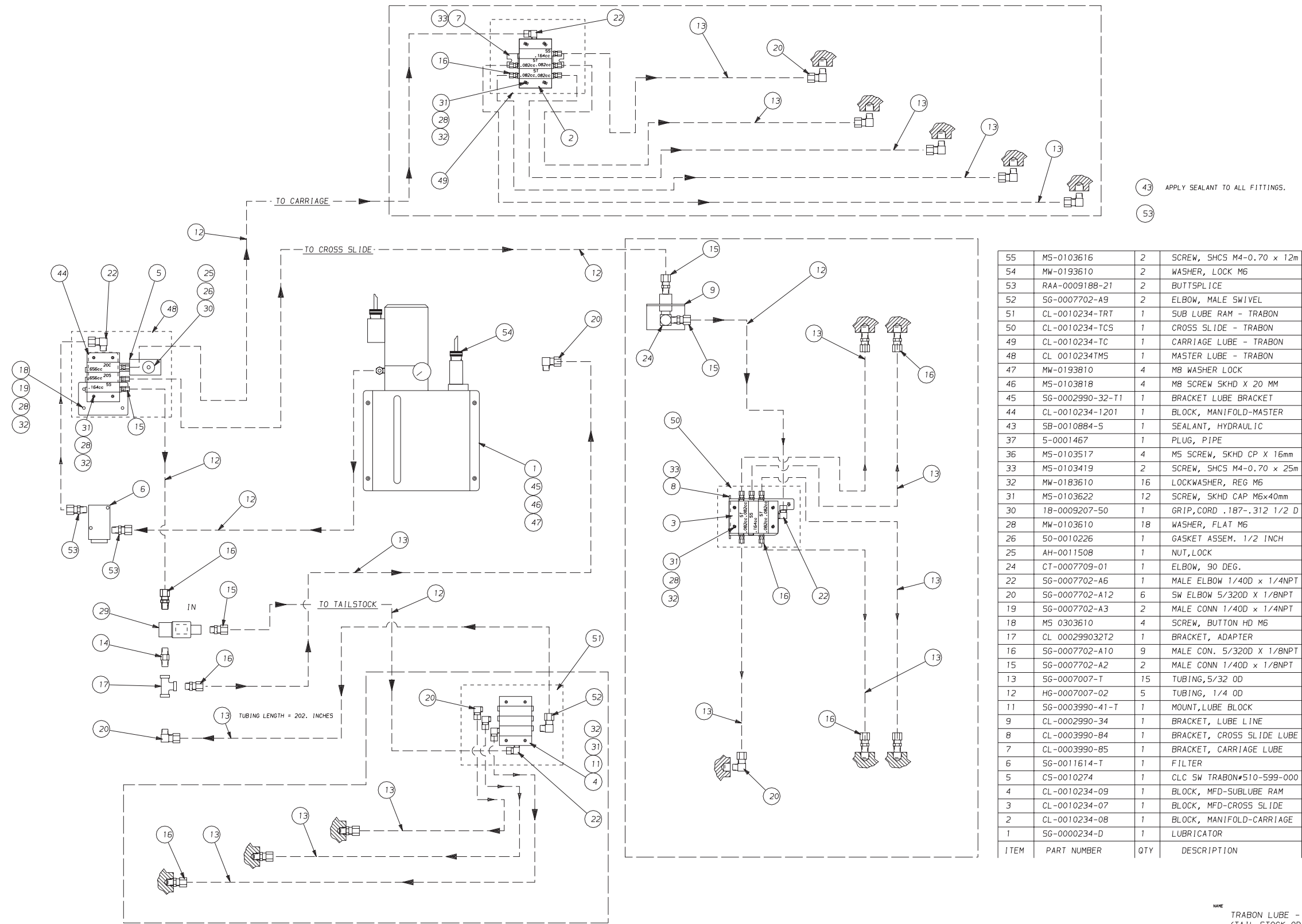


43 - APPLY TO ALL FITTINGS.

ITEM	PART NUMBER	QTY	DESCRIPTION
53	RAA-0009188-21	2	BUTTSPLICE
52	SG-0007702-A9	4	ELBOW, MALE SWVEL
51	CL-0010234-TSS	1	SUB-SPINDLE LUBE, TRABON
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-S	1	SEALANT, HYDRAULIC
37	5-0001467	1	PLUG, PIPE
36	MS-0103517	4	M5 SCREW, SKHD CP X 16mm
33	MS-0103419	4	SCREW, SHCS M4-0.70 x 25m
32	MW-0183610	16	LOCKWASHER, REG M6
31	MS-0103622	12	SCREW, SKHD CAP M6x40mm
30	18-0009207-50	1	GRIP,CORD .187-.312 1/2 D
28	MW-0103610	16	WASHER, FLAT M6
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	8	SW ELBOW 5/32OD X 1/8NPT
16	SG-0007702-A10	6	MALE CON. 5/32OD X 1/8NPT
15	SG-0007702-A2	3	MALE CONN 1/40D x 1/8NPT
13	SG-0007007-T	14	TUBING,5/32 OD
12	HG-0007007-02	5	TUBING, 1/4 OD
11	MS 0303610	4	SCREW, BUTTON HD M6
10	CL 000299032T2	1	BRACKET, ADAPTER
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	CYC SW TRABON#510-599-000
3	CL-0010234-07	1	BLOCK, MFD-CROSS SLIDE
2	CL-0010234-08	1	BLOCK, MANIFOLD-CARRIAGE
1	SG-0000234-D	1	LUBRICATOR

NAME: TRABON LUBE - CL51
HYDRAULIC SUB-SPINDLE
PART NUMBER: CL-0000234-TSS
SHEET 1 of 1

Lubrication System, Machine with Tailstock

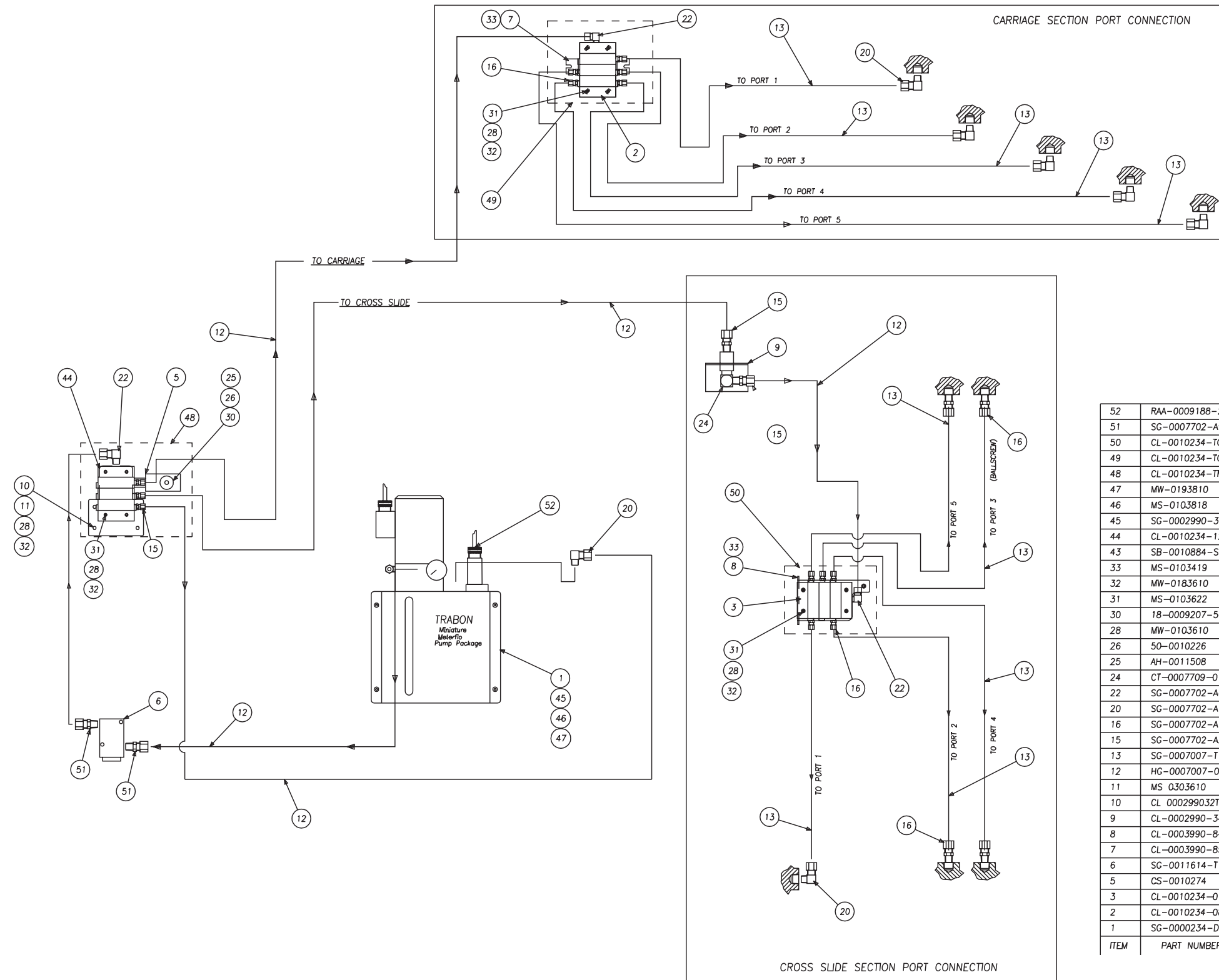


ITEM	PART NUMBER	QTY	DESCRIPTION
55	MS-0103616	2	SCREW, SHCS M4-0.70 x 12m
54	MW-0193610	2	WASHER, LOCK M6
53	RAA-0009188-21	2	BUTTSPLICE
52	SG-0007702-A9	2	ELBOW, MALE SWIVEL
51	CL-0010234-TRT	1	SUB LUBE RAM - TRABON
50	CL-0010234-TCS	1	CROSS SLIDE - TRABON
49	CL-0010234-TC	1	CARRIAGE LUBE - TRABON
48	CL 0010234TMS	1	MASTER LUBE - TRABON
47	MW-0193810	4	M6 WASHER LOCK
46	MS-0103818	4	M6 SCREW SKHD X 20 MM
45	SG-0002990-32-T1	1	BRACKET LUBE BRACKET
44	CL-0010234-1201	1	BLOCK, MANIFOLD-MASTER
43	SB-0010884-5	1	SEALANT, HYDRAULIC
37	5-0001467	1	PLUG, PIPE
36	MS-0103517	4	M5 SCREW, SKHD CP X 16mm
33	MS-0103419	2	SCREW, SHCS M4-0.70 x 25m
32	MW-0183610	16	LOCKWASHER, REG M6
31	MS-0103622	12	SCREW, SKHD CAP M6x40mm
30	18-0009207-50	1	GRIP, CORD .187-.312 1/2 D
28	MW-0103610	18	WASHER, FLAT M6
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
18	MS 0303610	4	SCREW, BUTTON HD M6
17	CL 000299032T2	1	BRACKET, ADAPTER
16	SG-0007702-A10	9	MALE CON. 5/320D X 1/8NPT
15	SG-0007702-A2	2	MALE CONN 1/40D x 1/8NPT
13	SG-0007007-T	15	TUBING, 5/32 OD
12	HG-0007007-02	5	TUBING, 1/4 OD
11	SG-0003990-41-T	1	MOUNT, LUBE BLOCK
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	CLC SW TRABON#510-599-000
4	CL-0010234-09	1	BLOCK, MFD-SUBLUBE RAM
3	CL-0010234-07	1	BLOCK, MFD-CROSS SLIDE
2	CL-0010234-08	1	BLOCK, MANIFOLD-CARRIAGE
1	SG-0000234-D	1	LUBRICATOR

NAME
TRABON LUBE - CL51
(TAIL STOCK OPTION)

PART NUMBER
CL0000234TT

SHEET 1 of 1



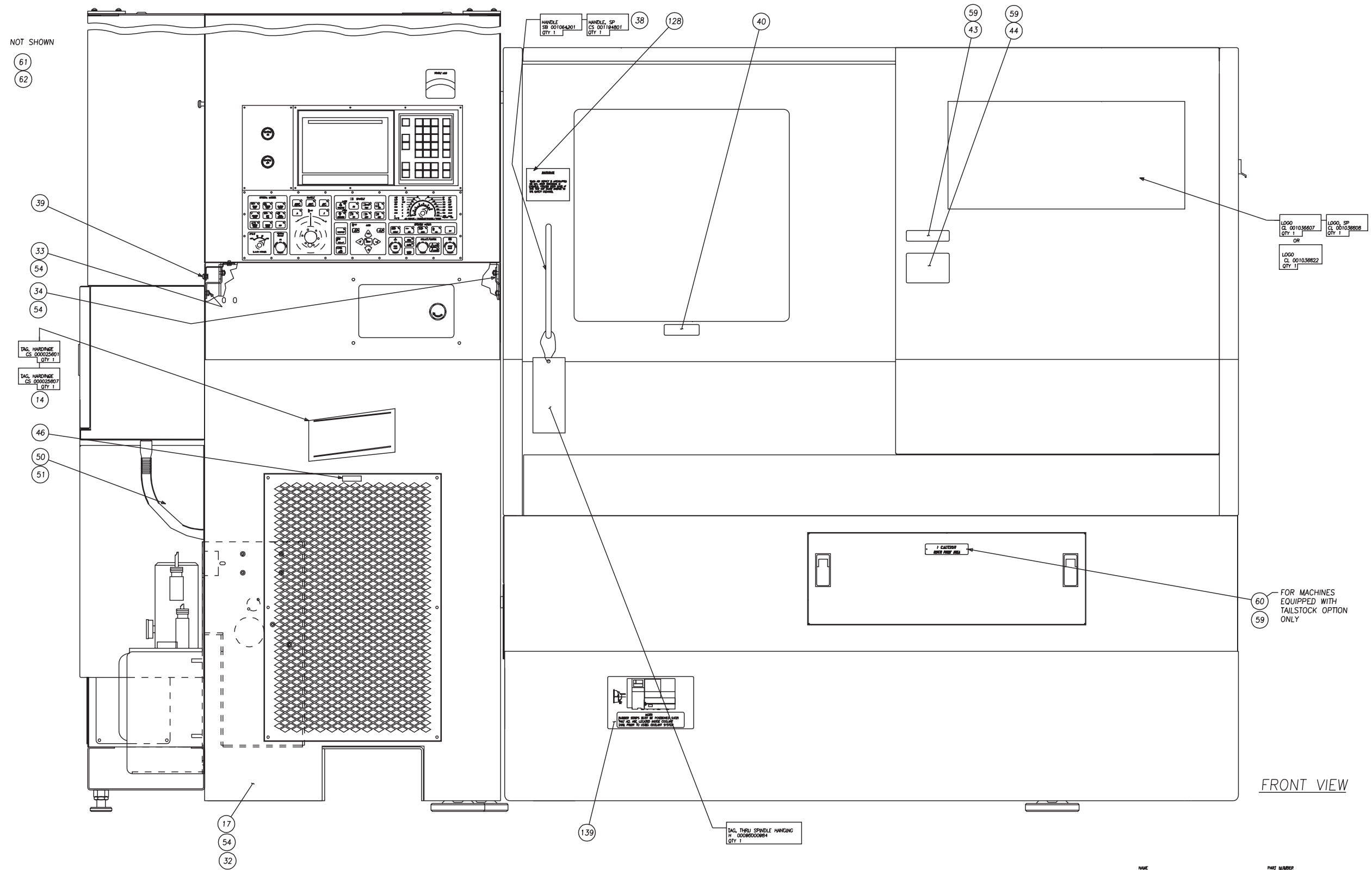
43 - APPLY HYDRAULIC SEALANT TO ALL FITTINGS.

51

52	RAA-0009188-21	2	BUTTSPLICE
51	SG-0007702-A9	4	ELBOW, MALE SWIVEL
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	LOCKWASHER, REG M8
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-S	1	SEALANT, HYDRAULIC
33	MS-0103419	4	SCREW, SHCS M4-0.70 x 25mm
32	MW-0183610	16	LOCKWASHER, REG M6
31	MS-0103622	12	SCREW, SKHD CAP M6x40mm
30	18-0009207-50	1	GRIP,CORD .187-.312 1/2 D
28	MW-0103610	16	WASHER, FLAT M6
26	50-0010226	1	GASKET ASY 1/2"
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	7	SW ELBOW 5/32OD X 1/8NPT
16	SG-0007702-A10	4	MALE CON. 5/32OD X 1/8NPT
15	SG-0007702-A2	2	MALE CONN 1/40D x 1/8NPT
13	SG-0007007-T	10	TUBING,5/32 OD
12	HG-0007007-02	5	TUBING, 1/4 OD
11	MS 0303610	4	SCREW, BUTTON HD M6
10	CL 000299032T2	1	BRACKET, ADAPTER
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	CYC SW TRABON#510-599-000
3	CL-0010234-07	1	BLOCK, MANIFOLD-CROSS SLI
2	CL-0010234-08	1	BLOCK, MANIFOLD-CARRIAGE
1	SG-0000234-D	1	LUBRICATOR
ITEM	PART NUMBER	QTY	DESCRIPTION

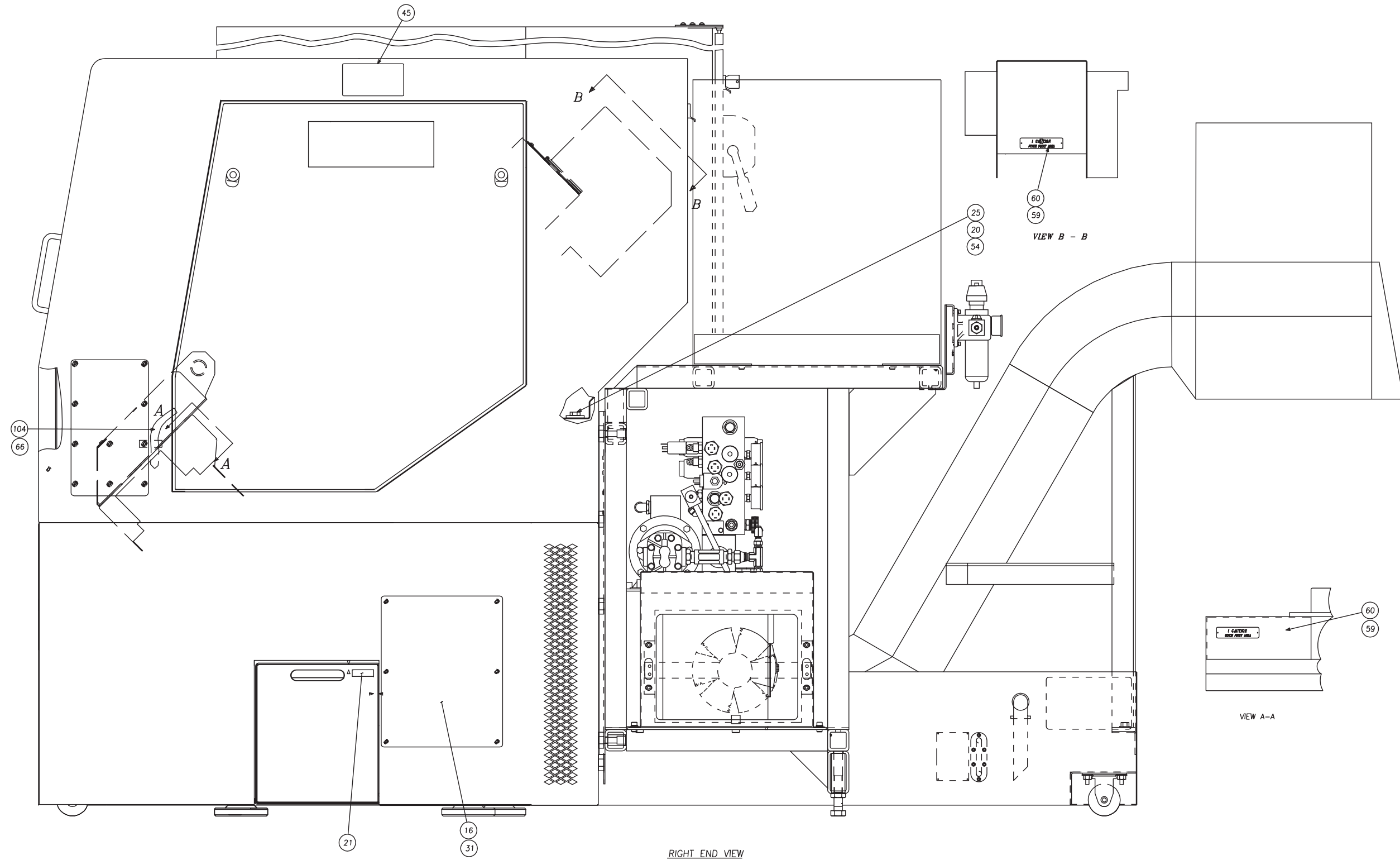
TRABON LUBE - CL51 (LESS TAILSTOCK OPTION)
 CL 0000234TTCL
 1 of 1

Miscellaneous Components, Rear Discharge Machine



NAME
BUTTON UP
REAR DISCHARGE

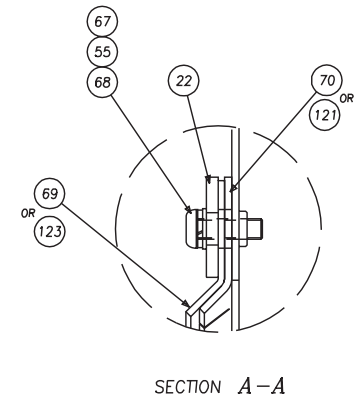
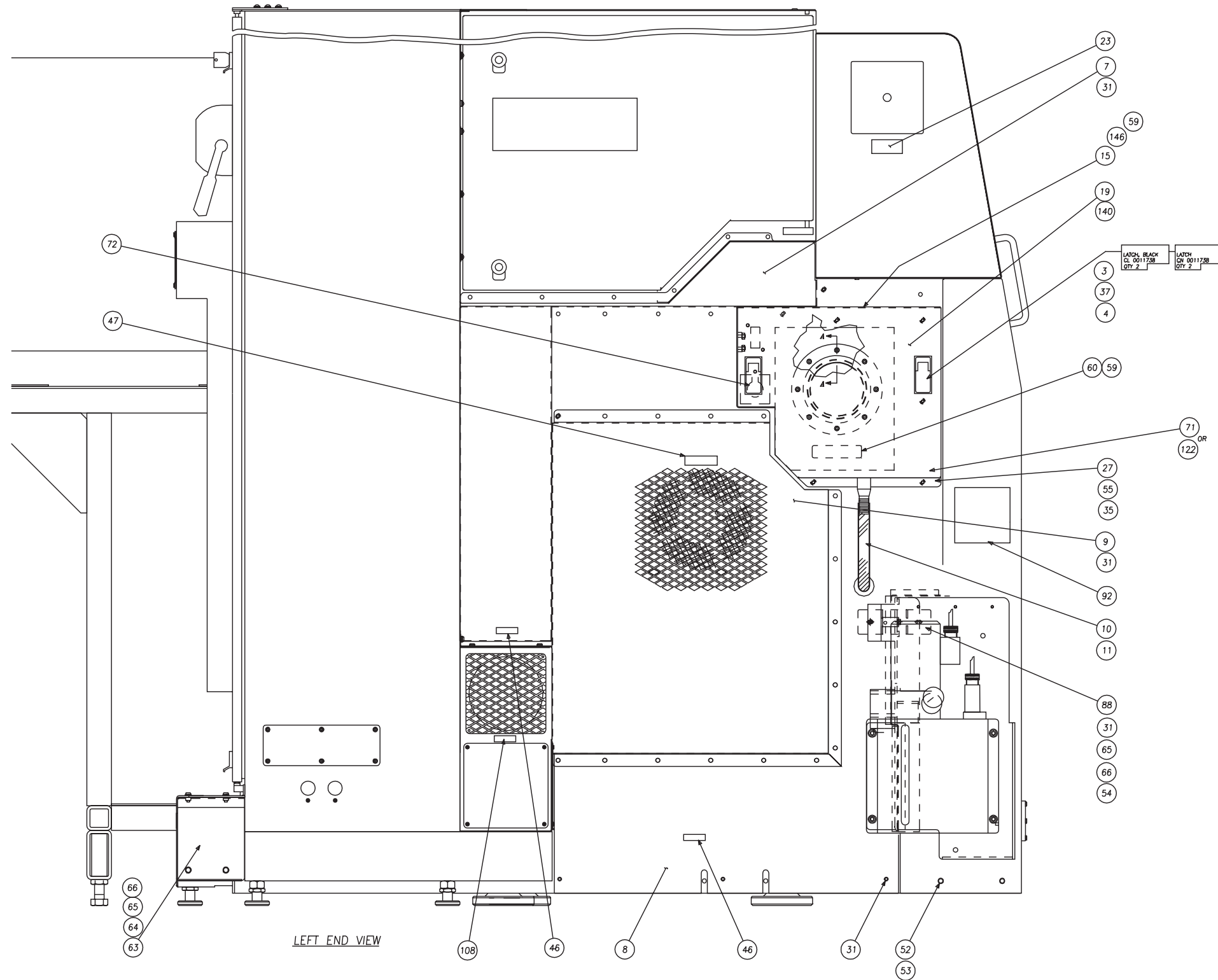
PART NUMBER
CL 0001111RD
SHEET 1 of 5



RIGHT END VIEW

NAME BUTTON UP REAR DISCHARGE
PART NUMBER CL 0001111RD
HEET 2 of 5

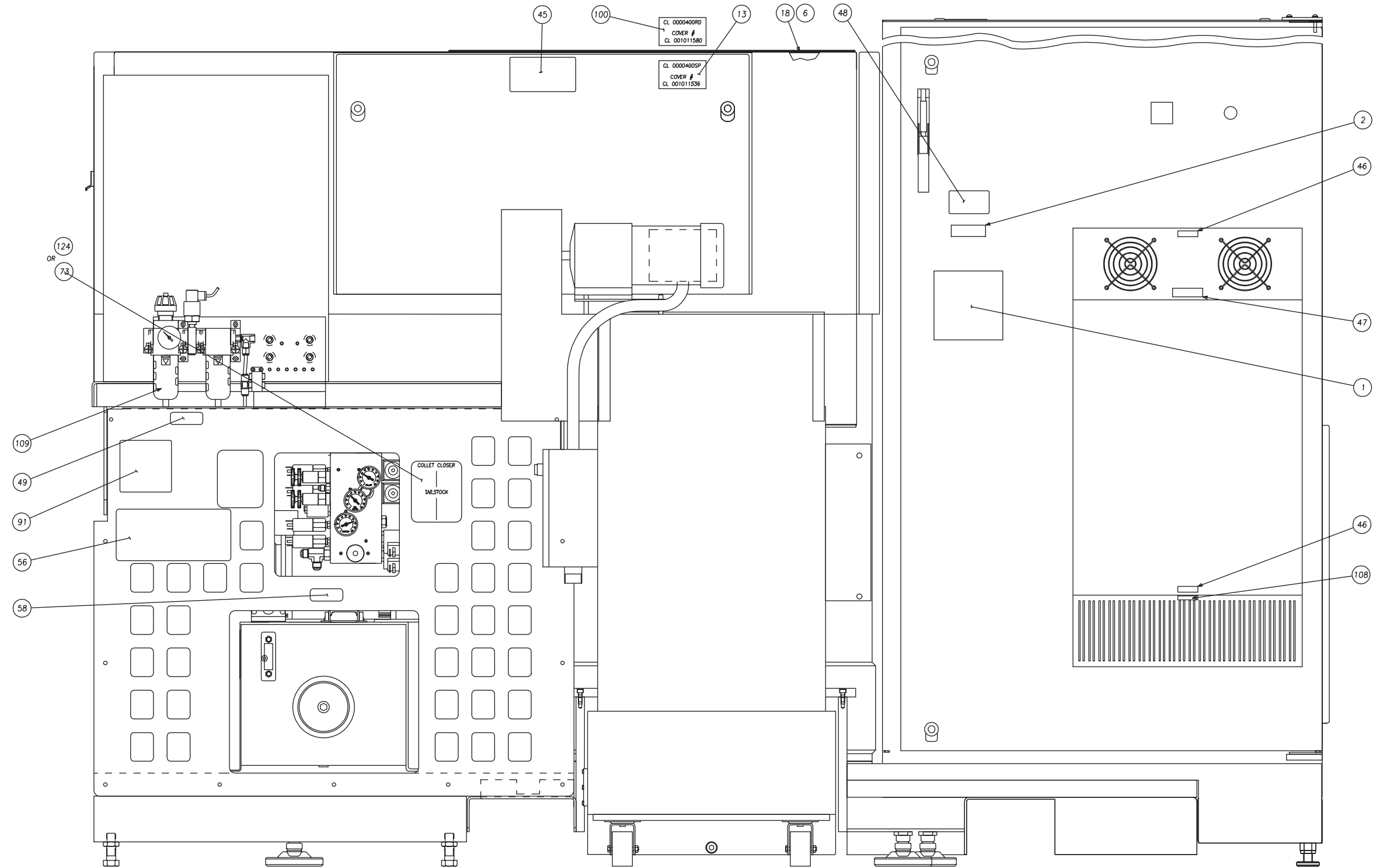
Miscellaneous Components, Rear Discharge Machine



LEFT END VIEW

(CONVEYOR NOT SHOWN FOR CLARIFICATION)

CS-51 BUTTON UP REAR DISCHARGE
 PART NUMBER CL 0001111RD
 SET 3 of 5



BACK VIEW

NAME BUTTON UP REAR DISCHARGE
PART NUMBER CL 0001111RD
SHEET 4 of 5

Miscellaneous Components, Rear Discharge Machine

NOT SHOWN ON DRAWING:

- | | | | |
|-------|------|-------|-------|
| (129) | (5) | (96) | (74) |
| (130) | | (97) | (141) |
| (131) | (77) | (98) | (142) |
| (132) | (80) | (101) | (143) |
| (133) | (81) | (102) | (144) |
| (134) | (82) | (103) | (145) |
| (136) | (83) | (105) | (147) |
| (137) | (84) | (106) | (148) |
| (138) | (85) | (107) | |
| | (86) | (125) | |
| | (87) | (126) | |
| | | (127) | |

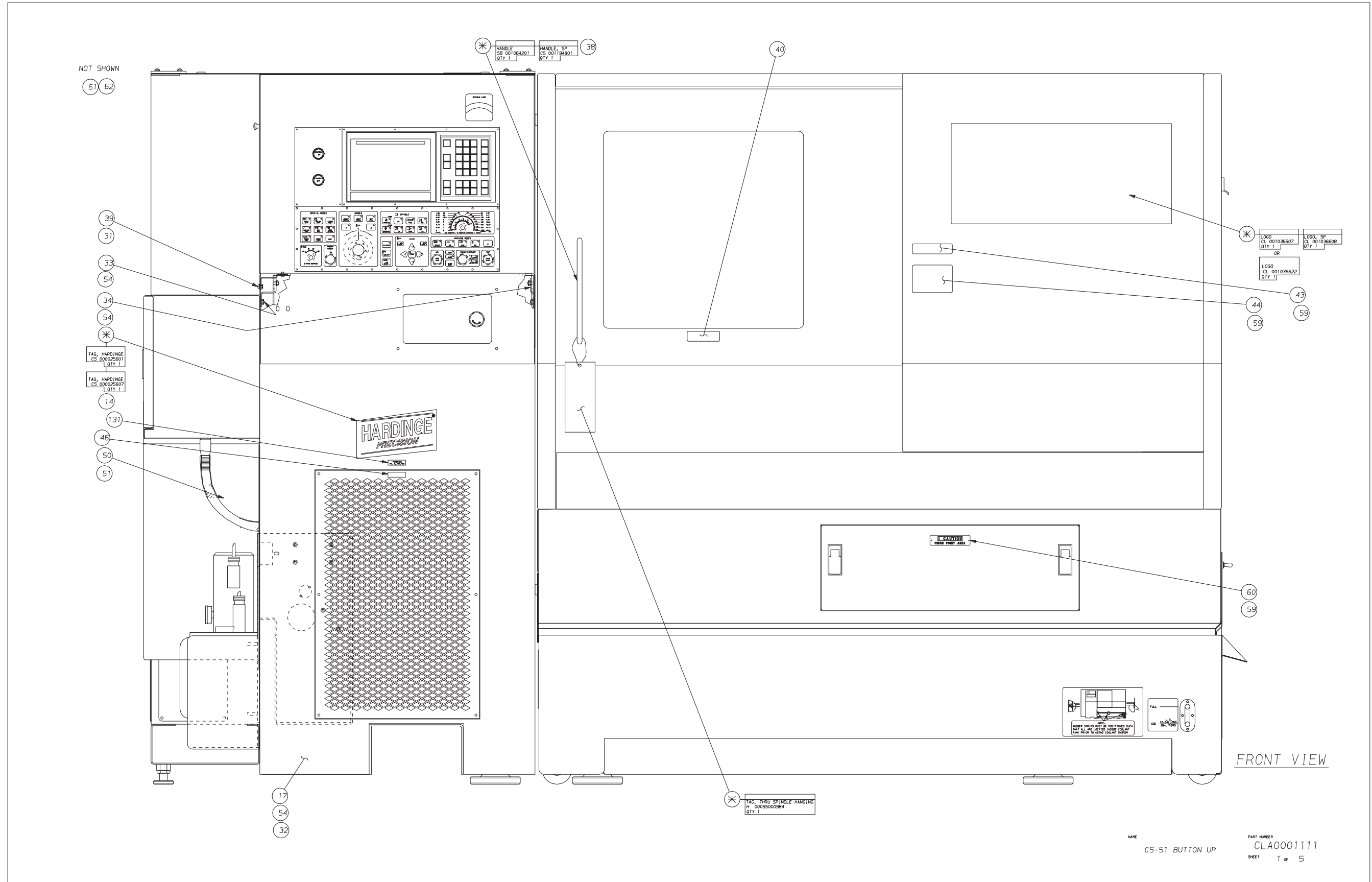
148	LO 0003539	1	PATENT TAG LOCATION
147	CL 0001535PN	1	TAG, PATENT NUMBERS
ITEM	PART NUMBER	QTY	DESCRIPTION

146	CL 001030208CE	1	TAG, DRAW TUBE SCREWS
145	CL 0011898	1	TAPE, OVERLAY LAMINATE
144	CL 001088401	.01	ADHESIVE
143	CL 001036631	1	TAG
142	CL 001036630	1	TAG
141	CL 001036629	1	TAG
140	SG 0010115 A	1	COVER, COOLANT CATCHER
139	CL 001036627	1	TAG, CL-RD COOLANT SPLASH
138	HG 000199091	1	PLATE
137	CLA001119801	1	LABYRINTH
136	CL 001119810	1	LABYRINTH
134	CL 001011535	1	COVER, SKIRT DUCT
133	CL 001011533	1	COVER, HYD. AREA
132	CL 001011528	1	COVER, REAR T/S
131	CL 001011506	1	COVER, X MOTOR
130	CL 0006418	1	LABYRINTH
129	CL 000299095	1	BRACKET
128	SG 001036614	1	TAG, SAFETY CYL. WARNING
127	AD 0010912	1	OIL
126	AH 001088402	1	ADHESIVE
125	ST 0010884	1	ADHESIVE
124	CL 001036617	1	TAG,PRESSURE -VS- FORCE
123	CL 001011649	1	GASKET, GUARD-BIG BORE CC
122	CL 0002533B1	1	COOLANT CATCHER, WLD ASSY
121	CL 001044906	1	GUARD,BIG BORE CC
109	CN 00107793E	1	ELEMENT,FILTER
108	AD 001135001	2	TAG
107	MS 0104228FT	1	M12 SCREW, SHCS x 70mm
106	CL 0007685	1	STOP
105	CL 0010468	1	PIN
104	RH 0009623	1	CLAMP,HOSE
103	CL 000891501	1	WORKLIGHT
102	CSA001022401	1	SWITCH
101	HG 000365003	1	LEVER ARM, SWITCH
100	CS 001011580	1	COVER, REAR GUARD (STD)
98	CL 001030201	1	TAG
97	MS 0104218	4	M12 SCREW, SHCS x 20mm
96	MW 0184210	4	M12 WASHER, LOCK
92	CL 001036612	1	TAG, LUBE SCHEMATIC
91	CL 001036611	1	TAG,PNEUMATIC SCHEMATIC
88	CL 000299098	1	BRACKET,LUBE & LEFT CORNE
87	MW 0104010	4	M10 WASHER, FLAT
86	MS 0104018	4	M10 SCREW, SHCS x 20mm
85	CN 000362304	8	WASHER
84	MW 0104210	8	M12 WASHER, FLAT
83	MS 0104219	4	M12 SCREW, SHCS x 25mm
82	RF 001211904	8	SCREW,LAG 1/2"x4" LONG
81	RF 0012120	8	SHIELD,EXPANSION
80	CS 001216001	1	MICRO FOAM
77	MS 0303516	1	M5 SCREW, BHSS x 12mm
74	CL 001036612	1	TAG, CSS1 LUBE SCHEMATIC
73	CLB001036609	1	TAG, COLLET CL-TS PRE.
72	RF 0009532	1	GROMMET
71	CL 0002533WA	1	COOLANT CATCHER, WLD ASSY
70	CL 001044905	1	GUARD, COLLET CLOSER
69	CLA001044904	1	GASKET, GUARD CC
68	MW 0103510	8	M5 WASHER, FLAT
ITEM	PART NUMBER	QTY	DESCRIPTION

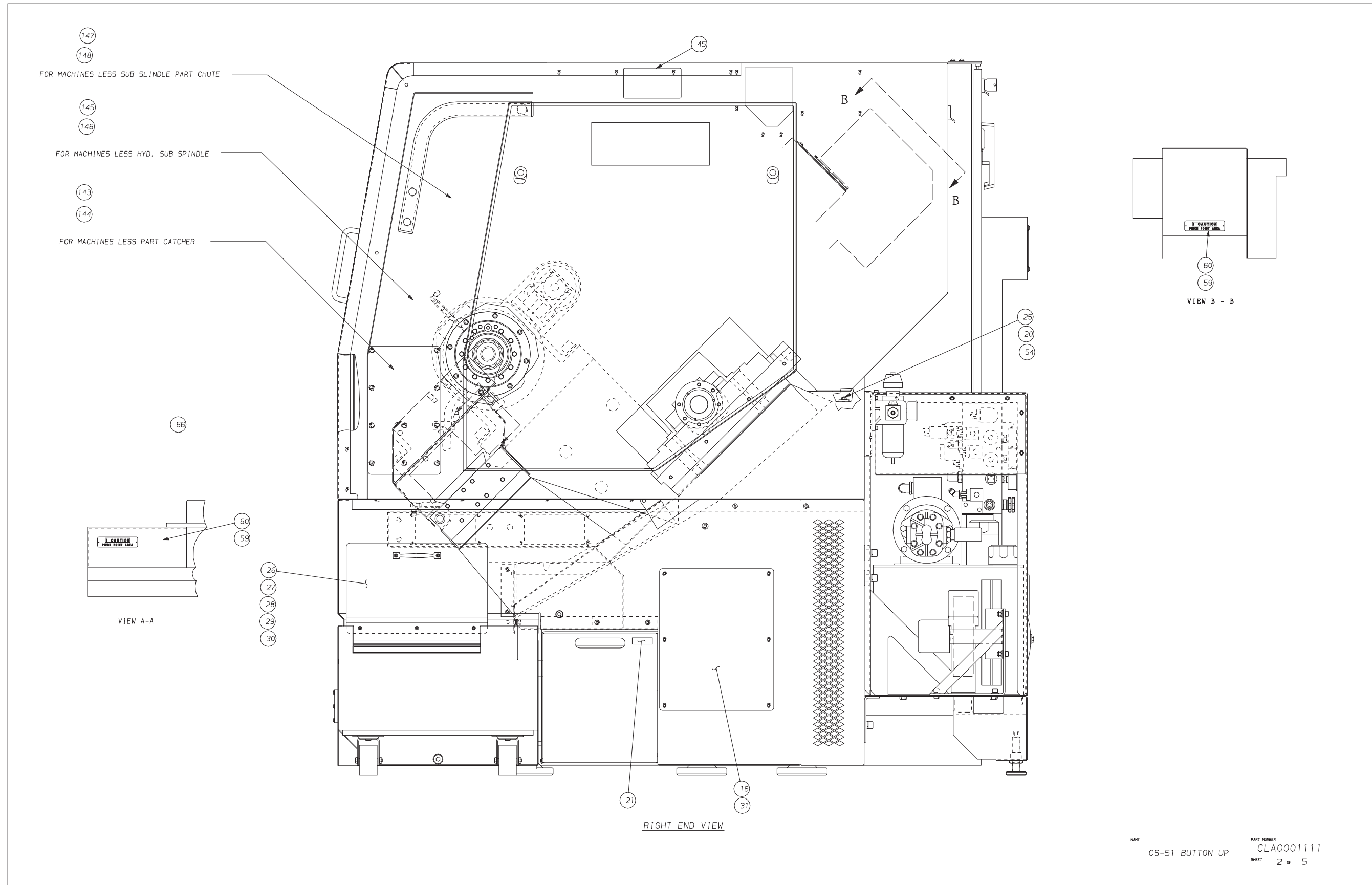
67	MS 0303517	8	M5 SCREW, BHSS x 16mm
66	MW 0103610	6	M6 WASHER, FLAT
65	MW 0183610	5	M6 WASHER, LOCK
64	MS 0303617	4	M6 SCREW, BHSS x 16mm
63	CL 001011568	1	COVER, HYD. LINES END
62	CS 0011255 L	2	LABEL DISKETTE
61	CS 001125501	2	DISKETTE
60	CS 001030202CE	4	TAG, CAUTION PIN PT AREA
59	R 0008044	16	PIN, ESCUTCHEON
58	ADA0010522	1	OIL SPECIFICATION LABEL
56	CL 001036610RD	1	TAG, HYD CONTROL VALVE
55	MW 0183510	17	M5 WASHER, LOCK
54	MN 0283610	26	M6 NUT, FLANGED
53	MW 0103810	2	M8 WASHER, FLAT
52	MS 0303815	2	M8 SCREW, BHSS x 10mm
51	CS 001052202	1	TAG, LUBRICATION INST
50	CS 001052204	1	TAG, ID
49	CS 001030207	1	TAG, CAUTION DRAIN FILTER
48	CSA001030203	1	TAG, CAUTION ELECT ENCL
47	CC 001030201	2	TAG, FAN WARNING
46	CC 001030202	5	TAG - AIR INLET
45	CS 001030201	2	TAG, CAUTION-ACCESS COVER
44	CS 001030208	1	TAG, WARNING
43	CN 001030201	1	TAG, WARNING
40	CS 0010302 W	1	TAG, CAUTION WINDOW
39	HG 0010598	1	HANGER, COVER
38	03000512	2	SCREW
37	CS 0006916	2	BUMPERS
35	CL 0000334	2	NUT, BUSHING
34	CL 000199083	1	BRACKET, RIGHT
33	CL 000199082	1	BRACKET, LEFT
32	NC 0010884	.01	LOCTITE #242
31	MS 0303615	41	M6 SCREW, BHSS x 10mm
27	MS 0303515	9	M5 SCREW, BHSS x 10mm
25	CL 000299007	1	PLATE, CLAMPING
23	CS 0010302R2	1	TAG, RS232
22	CL 000299020	1	RETAINER, SPLASH
21	CS 0010522	1	TAG, LUBRICATION
20	MS 0573620	9	M6 SCREW, SSFP x 30mm
19	CLA001011534	1	COVER, COOLANT CATCHER
18	CL 001011616	1	GASKET, REAR GUARD
17	CLA0000221LE	1	LEFT END WELD ASSEMBLY
16	HG 001011521	1	COVER, PUMP
15	SB 001030206	1	TAG, WARNING BAR STOCK
14	CN 0007707	4	NUT
13	CL 001011536	1	COVER, REAR DOOR
11	CC 0006966	2	CLAMP, HOSE
10	7500006965FG	3	HOSE, 3/4" FLEXIBLE
9	CL 001011591	1	COVER, LEFT END MOTOR
8	CLB0000221MC	1	COVER, MTR COMP WELD ASSY
7	CL 000199077RD	1	TOP, LT END MOTOR APRON
6	CL 001011633	1	GASKET, REAR GUARD INNER
5	SB 0011614 F	1	FILTER
4	CN 001119801	4	SEAL, OIL
3	CN 001011662	2	GASKET
2	CN 0001535	1	PLATE, SERIAL NO.
1	CL 0008074	1	TAG, DATA PLATE
ITEM	PART NUMBER	QTY	DESCRIPTION

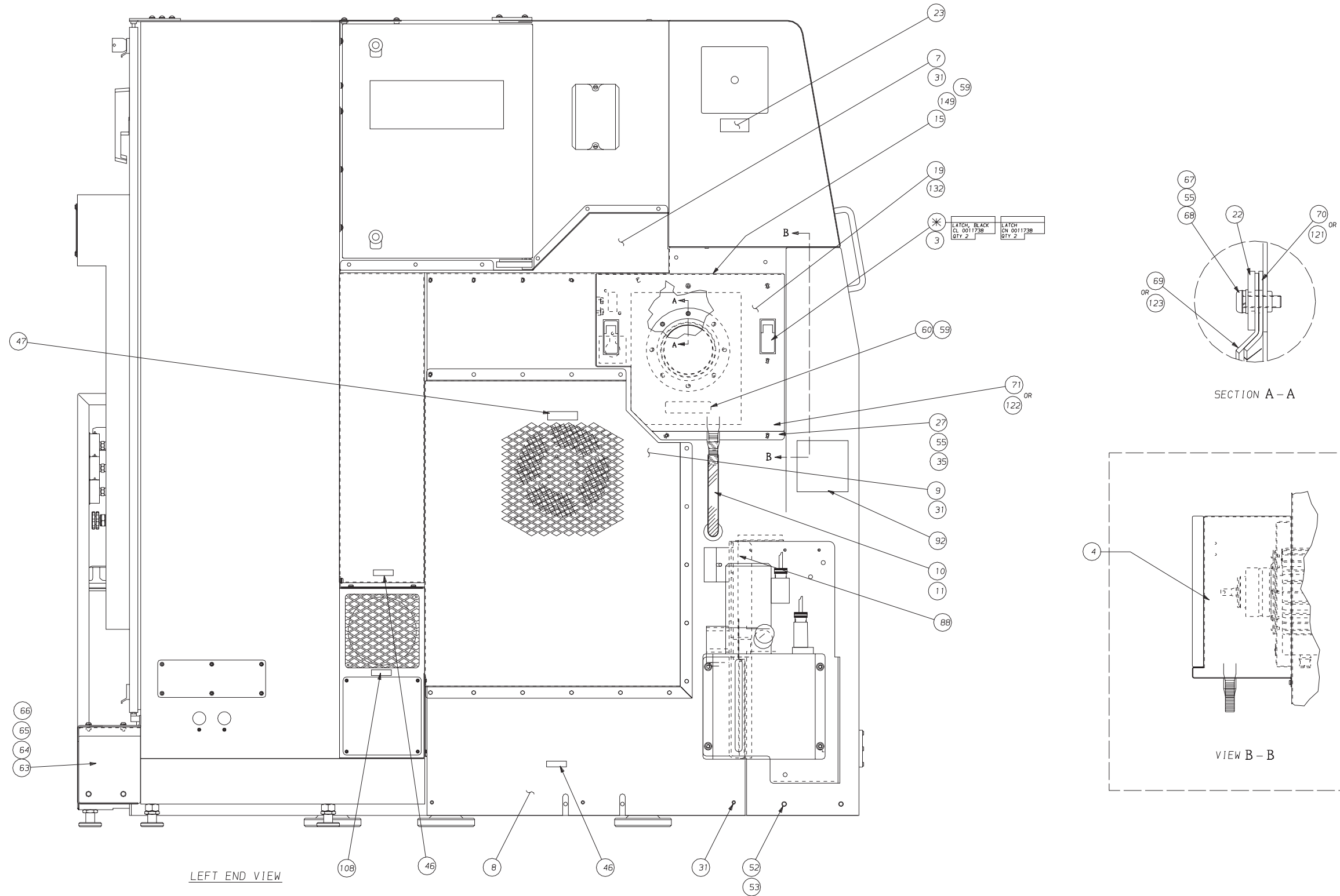
NAME
BUTTON UP
REAR DISCHARGE

PART NUMBER
CL 0001111RD
SHEET 5 of 5



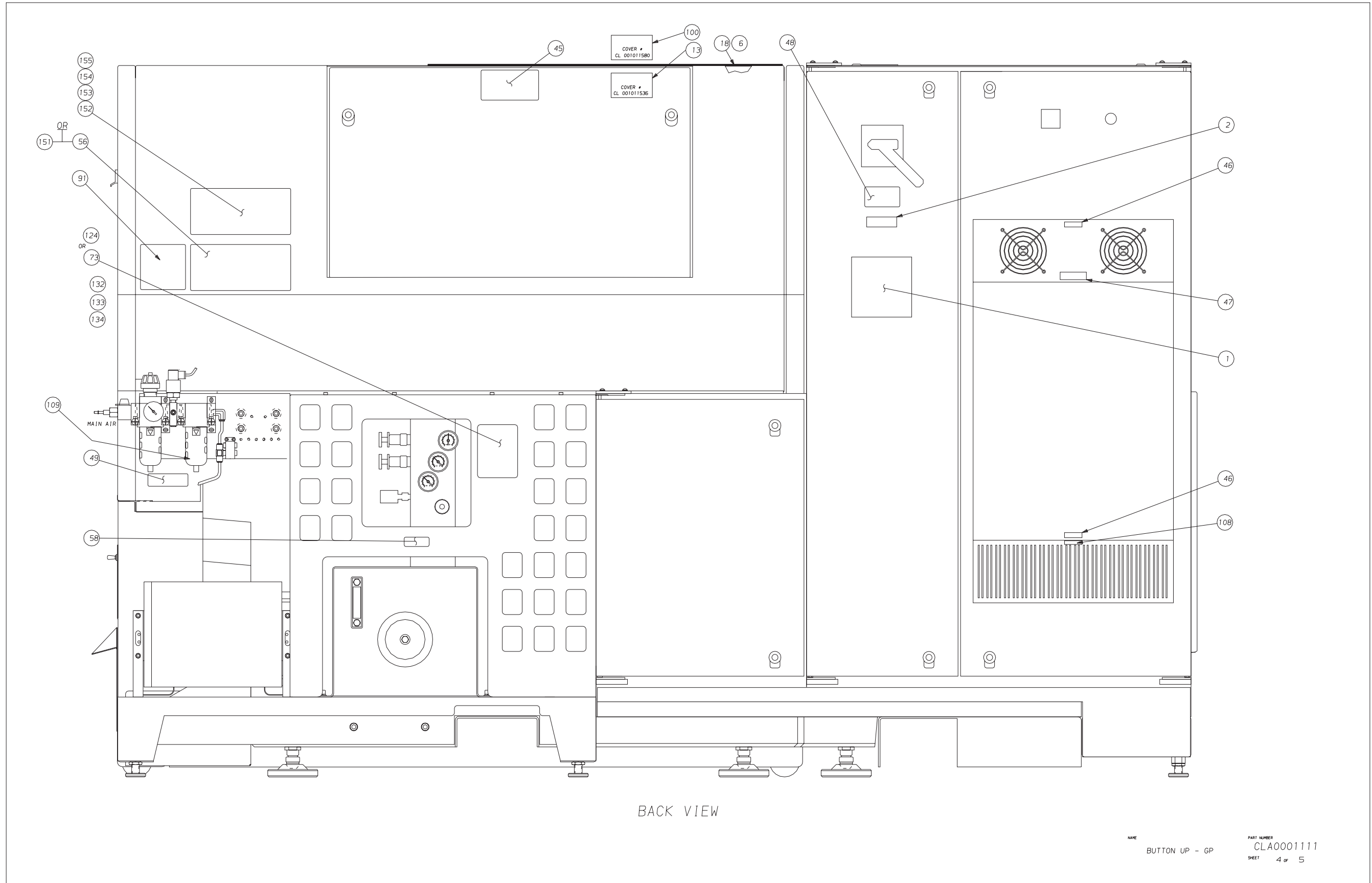
Miscellaneous Components, Side Discharge Machine





NAME: C5-51 BUTTON UP
 PART NUMBER: CLA0001111
 SHEET: 3 of 5

Miscellaneous Components, Side Discharge Machine

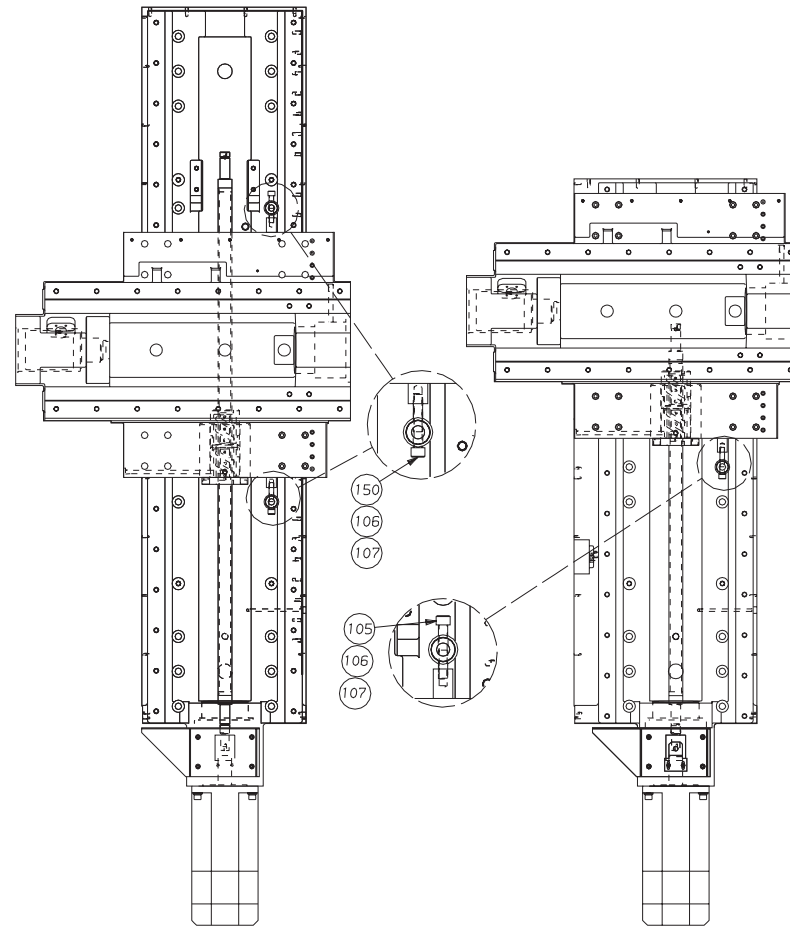


144	CL 001011651	1	GASKET
143	CL 001011596	1	COVER
142	DVB0009623	3	CLAMP
141	CN 0008104	4	TYRAP
140	HG 001103201	60	TERMINAL
139	HG 001103202	20	TERMINAL
138	HG 001103204	2	TERMINAL
137	HG 001103203	7	TERMINAL
136	CL 0011898	3	TAPE
135	CL 001088401	.01	ADHESIVE
134	CL 001036630	1	TAG, PRESSURE VS FORCE (T
133	CL 001036629	1	TAG, PRESSURE VS FORCE (T
132	SG 0010115 A	2	COVER
131	CL 001036626	1	LABEL, PATENT NO.
130	CL 00096105K	1	REPLACEMENT FUSES - CL
129	H 00095000992	1	TAG, ATTENTION OPERATOR
127	AD 0010912	1	OIL
126	AH 001088402	1	ADHESIVE
125	ST 0010884	1	ADHESIVE
124	CL 001036617	1	TAG, PRESSURE -VS- FORCE
123	CL 001011649	1	GASKET, GUARD-BIG BORE COL
122	CL 0002533B1	1	COOLANT CATCHER WELD ASSY
121	CL 001044906	1	GUARD, BIG BORE COLLET CLO
109	CN 00107793E	1	ELEMENT, FILTER
108	AD 001135001	2	TAG
107	MS 0104228FT	2	SCREW
106	CL 0007685	2	STOP
105	CL 0010468	1	PIN
104	RH 0009623	1	CLAMP, HOSE
103	CL 000891501	1	WORKLIGHT
102	CSA001022401	1	SWITCH
101	HG 000365003	1	DESC
100	CS 001011580	1	COVER, REAR GUARD (STD)
98	CL 001030201	1	TAG
97	MS 0104218	4	SCREW
96	MW 0184210	4	WASHER
92	CLA001036612	1	TAG, LUBE SCHEMATIC
91	CL 001036611	1	TAG, PNEUMATIC SCHEMATIC
88	CL 000299098	1	BRACKET, LUBE
87	MW 0104010	4	WASHER, M10
86	MS 0104018	4	SCREW, SOC HD CAP M10X1.5X
85	CN 000362304	8	WASHER
84	MW 0104210	8	WASHER, M12
83	MS 0104219	4	SCREW, SOC HD CAP M12X1.7
82	RF 001211904	8	SCREW, LAG 1/2"X4" LONG
81	RF 0012120	8	SHIELD, EXPANSION
77	MS 0303516	1	SCREW
74	CL 001036612	1	TAG
73	CLB001036609	1	TAG, COLLET CLSR-TAILSTOC
71	CL 0002533WA	1	ASSEMBLY COOLANT CATCHER
70	CL 001044905	1	GUARD, COLLET CLOSER
69	CLA001044904	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
ITEM	PART NUMBER	QTY	DESCRIPTION

63	CL 001011573	1	COVER, HYD. LINES END
62	CS 0011255 L	2	LABEL DISKETTE
61	CS 001125501	2	DISKETTE
60	CS 001030202CE	4	TAG, CAUTION PINCH POINT
59	R 0008044	16	PIN, ESCUTCHEON
58	ADA0010522	1	OIL SPECIFICATION LABEL
56	CL 001036610	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 M6
52	M5 0303815	2	SCREW, BT HD M6 X 1.25 X
51	CLB001052202CE	1	TAG, LUBRICATION INSTRUCT
50	CS 001052204	1	TAG, ID
49	CS 001030207	1	TAG - CAUTION DRAIN FILTE
48	CSA001030203	1	TAG - CAUTION ELECTRICAL
47	CC 001030201	2	TAG, FAN WARNING
46	CC 001030202	5	TAG - AIR INLET
45	CS 001030201	2	TAG, CAUTION-ACCESS COVER
44	CS 001030208	1	TAG, WARNING
43	CN 001030201	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 000199083	1	BRACKET, RIGHT
33	CL 000199082	1	BRACKET, LEFT
32	NC 0010884	.01	LOCTITE #242
31	M5 0303615	42	SCREW, BT HD M6 X 1.0 X 1
30	CSA000299082	1	RETAINER, SPLASH STRIP
29	CS 0009976	1	STRIP, SPLASH
28	CG 0010642	1	HANDLE
27	M5 0303515	14	SCREW, BT HD M5 X 0.8 X 1
26	CSB000299077	1	COVER, SKIRT
25	CL 000299007	1	PLATE, CLAMPING
24	CL 001119810	1	LABYRINTH, Z REA WAY COVE
23	CS 0010302R2	1	TAG, RS232
22	CL 000299020	1	RETAINER, SPLASH (COOLANT
21	CS 0010522	1	TAG, LUBRICATION
20	M5 0573620	9	SCREW, SOCKET SET
19	CLA001011534	1	COVER, COOLANT CATCHER
18	CL 001011616	1	GASKET, REAR GUARD
17	CLA0000221LE	1	LEFT END WELD ASSEMBLY
16	HG 001011521	1	COVER, PUMP
15	SB 001030206	1	TAG, WARNING BAR STOCK
14	CN 0007707	4	NUT
13	CL 001011536	1	COVER, REAR DOOR
12	CLA001119801	1	LABYRINTH, Z WAY COVER
11	CC 0006966	2	CLAMP, HOSE
10	7500006965FG	3	HOSE, 3/4" FLEXIBLE
9	CL 000022139	1	COVER, LEFT END MOTOR
8	CLB0000221MC	1	COVER, MOTOR COMP. WELD A
7	CLB000199077	1	TOP, LEFT END MOTOR APRON
6	CL 001011633	1	GASKET, REAR GUARD INNER
4	CN 001119801	4	SEAL, OIL
3	CN 001011662	2	GASKET
2	CN 0001535	1	PLATE, SERIAL NO.
1	CL 0008074	1	TAG, DATA PLATE
ITEM	PART NUMBER	QTY	DESCRIPTION

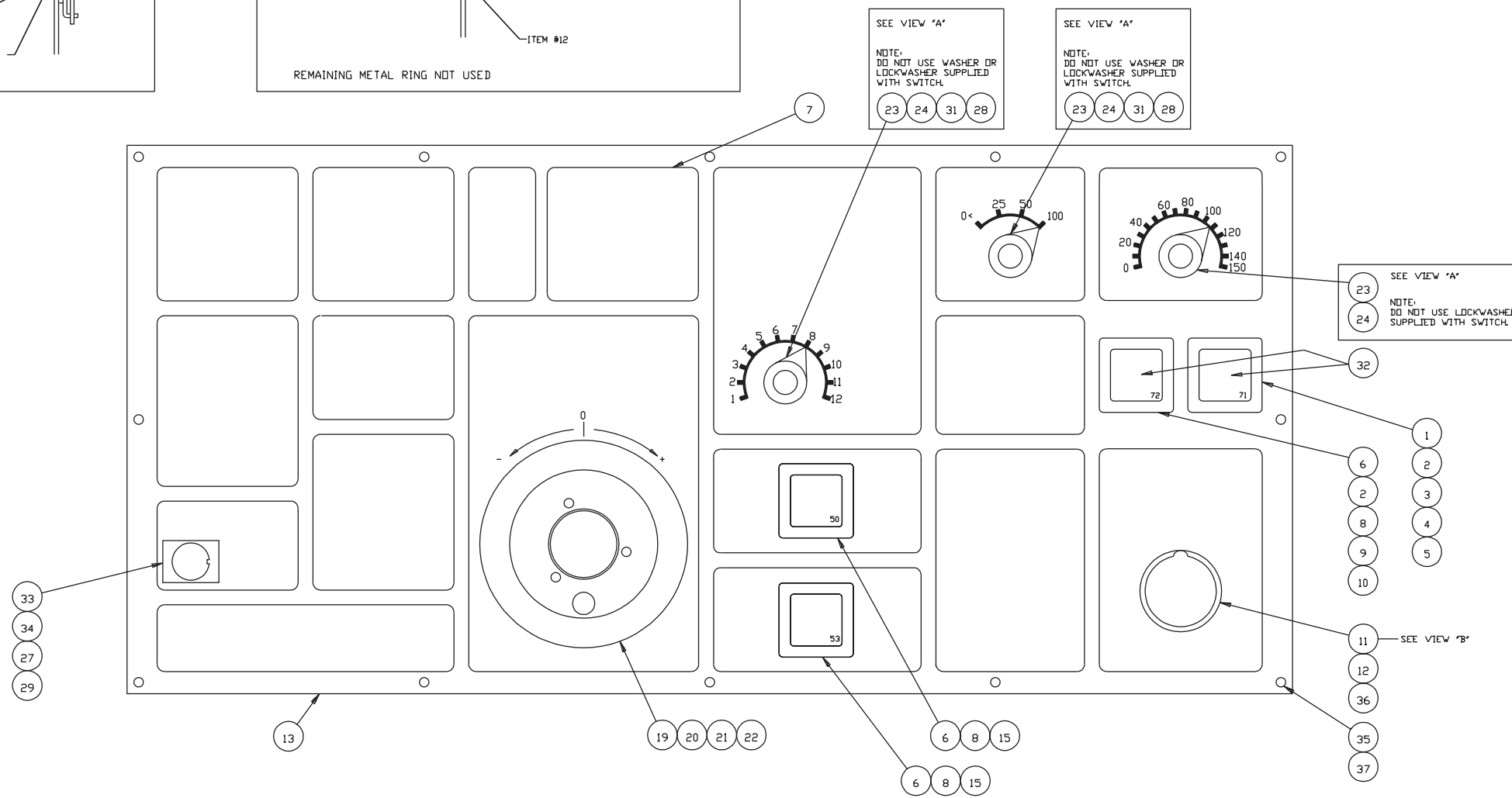
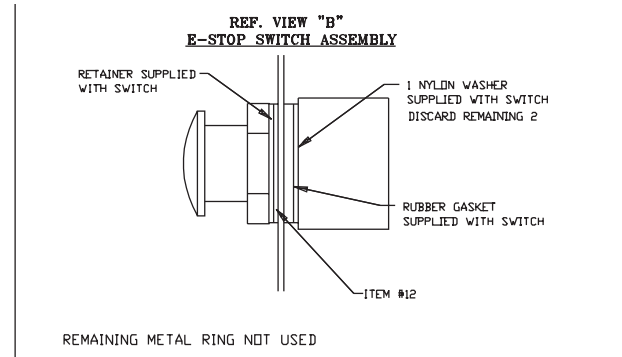
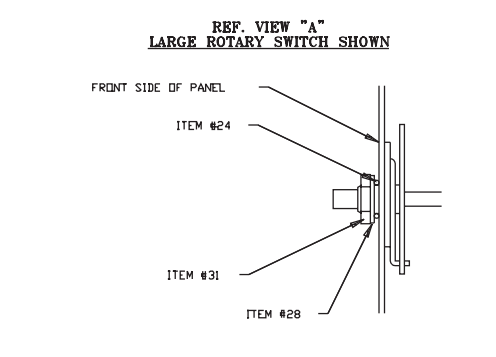
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NAME
 CS-51 BUTTON UP
 PART NUMBER
 CLA0001111
 SHEET
 5 of 5



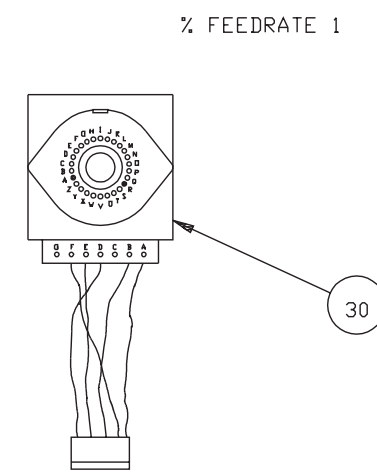
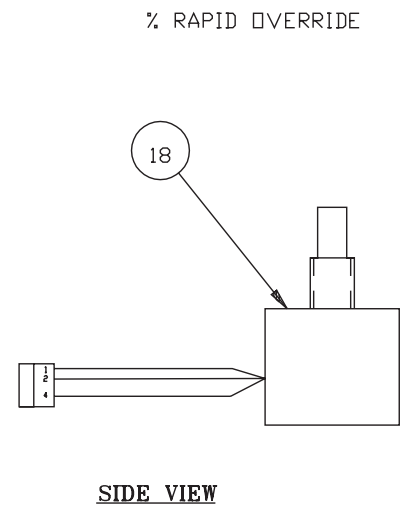
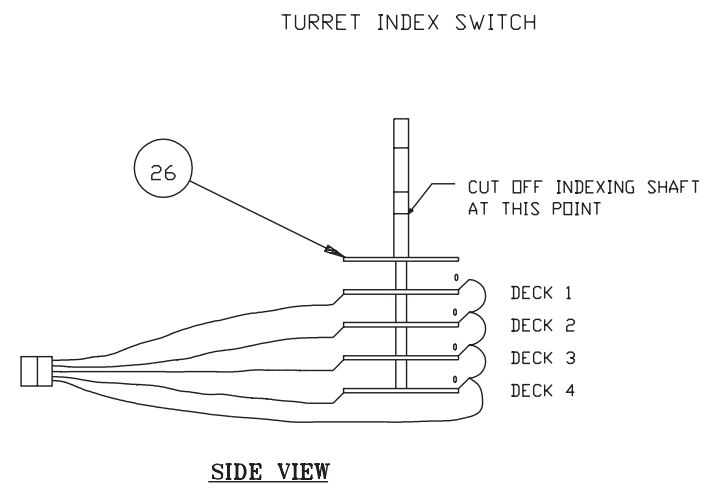
155	CL 001036610RT	1	TAG, HYDRAULIC CONTROL VA
154	CL 001036610BS	1	TAG, HYDRAULIC CONTROL VA
153	CL 001036610SS	1	TAG, HYDRAULIC CONTROL VA
152	CL 001036610SR	1	TAG, HYDRAULIC CONTROL VA
151	CL 001036610LT	1	TAG, HYDRAULIC CONTROL VA
150	CL 0010468LB	2	PIN
149	CL 00103020BCE	1	TAG, DRAW TUBE SCREWS
148	CL 001011667	1	GAASKET
147	VLA0010115LC	1	COVER
146	CL 0010116LS	1	GAASKET
145	CL 001021527	1	COVER
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME CS-51 BUTTON UP PART NUMBER CLA0001111
 SHEET 5 of 5



NOT SHOWN IN DRAWING
38 41

REV: MTB PANEL ASSEMBLY
CEMARK
REV: 0003: CLA001184418 E



NOT SHOWN ON DWG.



NAME
MTB PANEL ASSEMBLY
CEMARK

PART NUMBER
CLA001184418 E

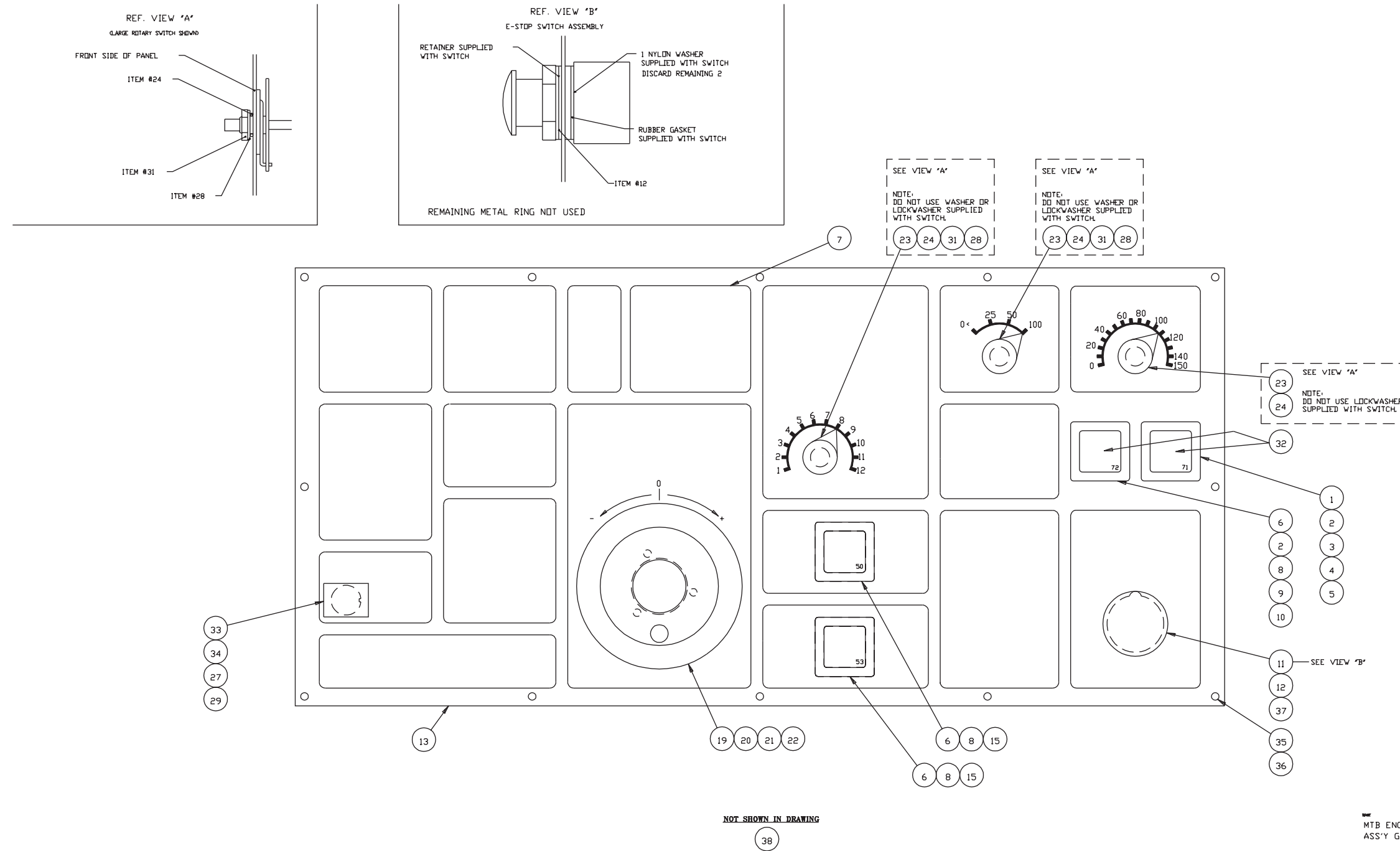


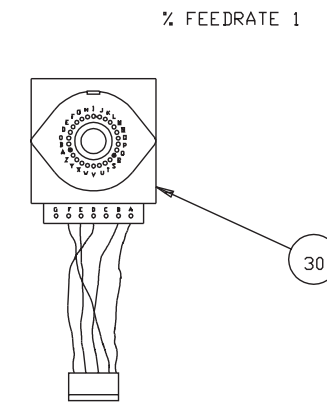
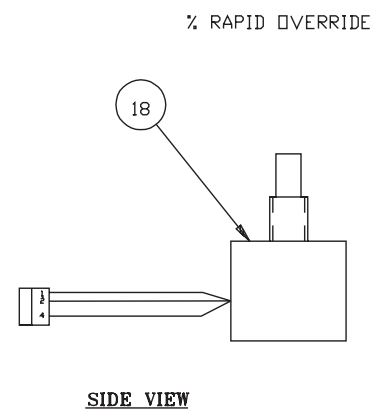
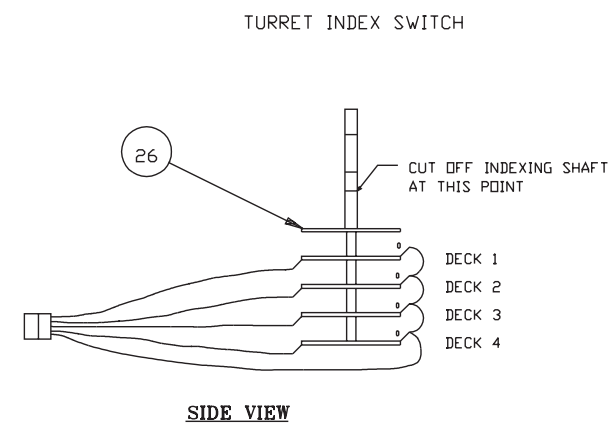
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	LC 0003650GE24	1.0000	SWITCH, OPERATOR, SQUARE,EXTD
2	LC 0003650GE05	2.0000	SWITCH, LIGHT UNIT
3	LC 0003650GE02	1.0000	SWITCH, CONTACT BLOCK, INC
4	LC 0003650GE06	1.0000	SWITCH, LED, 24VDC, RED
5	LC 0003650GE21	1.0000	SWITCH, LENS, SQUARE, RED
6	LC 0003650GE25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

NAME
CL MEMBRANE PANEL
ASSEMBLY CE-MARK

PART NUMBER
CLA001184418 E

Operator Control Panel, Non-CE Mark





NOT SHOWN ON DWG.



NAME
MEMBRANE ENGLISH
PANEL ASS'Y, SWITCHES

PART NUMBER
CLA0011844EN A

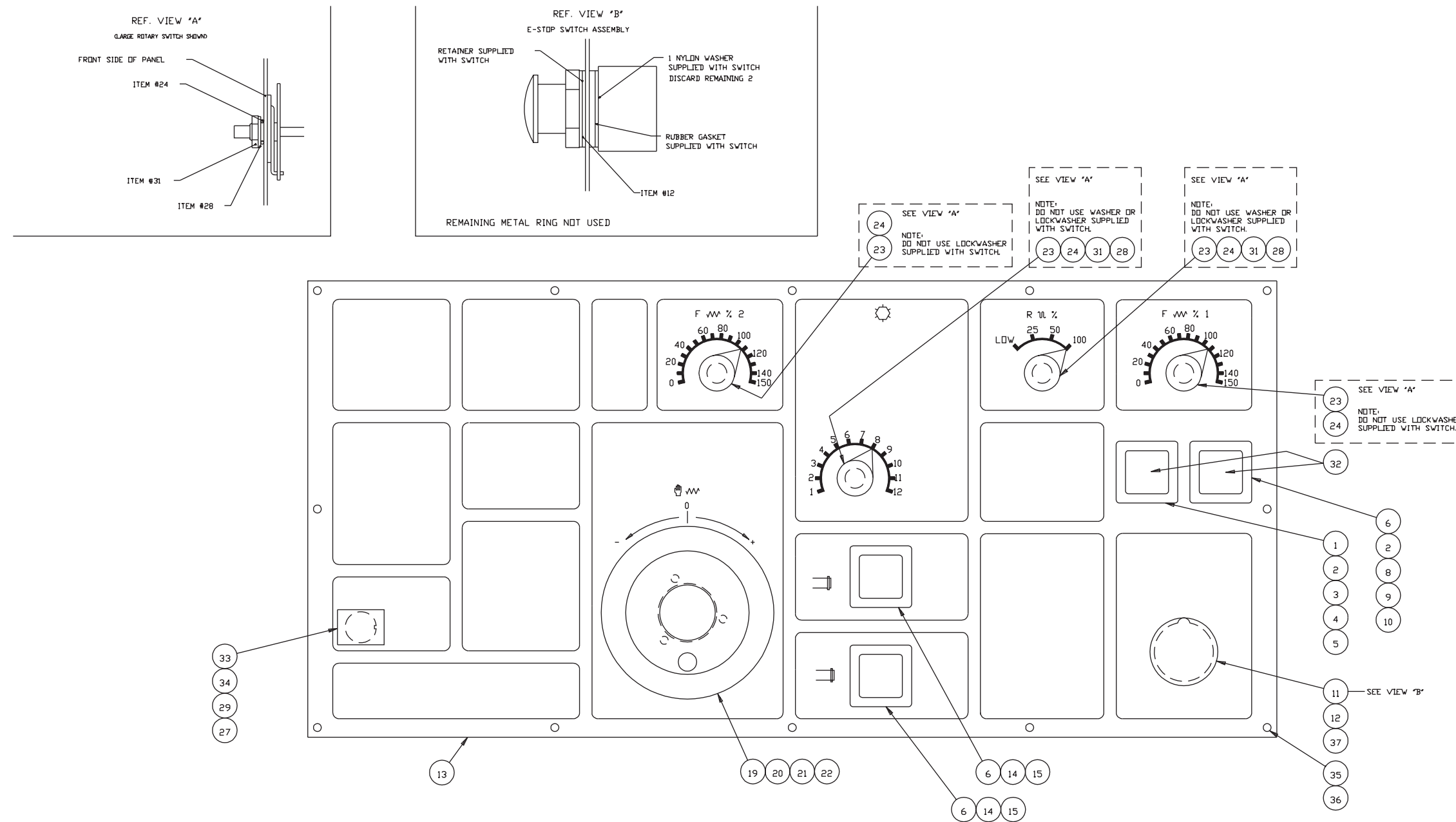
Operator Control Panel, Non-CE Mark



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	LC 0003650GE24	1.0000	SWITCH, OPERATOR, SQUARE,EXTD
2	LC 0003650GE05	2.0000	SWITCH, LIGHT UNIT
3	LC 0003650GE02	1.0000	SWITCH, CONTACT BLOCK, INC
4	LC 0003650GE06	1.0000	SWITCH, LED, 24VDC, RED
5	LC 0003650GE21	1.0000	SWITCH, LENS, SQUARE, RED
6	LC 0003650GE25	3.0000	SWITCH, OPERATOR, SQUARE,FLSH
7	CS 001036634	1.0000	TAG, CONQUEST DT-C COVER-UP
8	LC 0003650GE01	3.0000	SWITCH, CONTACT BLOCK, IND
9	LC 0003650GE04	1.0000	SWITCH, LED, 24VDC, GREEN
10	LC 0003650GE20	1.0000	SWITCH, LENS, SQUARE, GREEN
11	SG 000365012	1.0000	SWITCH, E-STOP 3 PDS
12	CN 0010116 B	1.0000	GASKET, E STOP SWITCH
13	SG 0011844EN	1.0000	SG/CL MTB PANEL ENGLISH
15	LC 0003650GE19	2.0000	SWITCH, LENS, SQUARE, CLEAR
16	AH 0009910	5.0000	TY RAP
17	LM 0008104	4.0000	TY-RAP
18	CN 000283403	1.0000	SWITCH, ROTARY (12 POSITIONS
19	FCA0011796	1.0000	GENERATOR, MANUAL PULSE
20	CN 0010116PG	1.0000	GASKET, MPG
21	CNA001150501	1.0000	RETAINER, MPG
22	MS 0453441	3.0000	SCREW, FL.HD.SLDT M4X.7X14MM
23	CS 0006578	3.0000	KNDB
24	CN 001011697	3.0000	GASKET, ROTARY SWITCH
25	CN 00120425R	5.0000	RECEPTACLE, 5 PDS
26	CN 000283404	1.0000	SWITCH, ROTARY (18 POSITIONS
27	2210002874BU	35.6300	WIRE
28	CS 0007910	2.0000	WASHER
29	CN 000918802	3.0000	STAKON, F.TAB.,11 X .02,22-1
30	CS 000283402	1.0000	SWITCH, BCD ENCODER ROTARY
31	CS 000406803	2.0000	NUT
32	SG 0010366KCE	1.0000	TAG, KIT-CEMARK SG, CL, HG, VL
33	CN 000283407	1.0000	SWITCH, KEYLOCK
34	CN 00120422R	4.0000	2 PDS. RECEPTACLE
35	MS 0303315	12.0000	SCREW, BUTTUN HD. M3X.5X10MM
36	RF 0011971	1.0000	BAG - MAIL
37	SG 0010019	2.0000	BLOCK, CONTACT
38	CK 000918820	24.0000	FERRULES, 20 AWG
39	SG 0011622	2.6700	SLEEVE, PLASTIC COIL, 3/16"-2'
40	SG 0003011CEMP	1.0000	CABLE PACKAGE, CL-CE-MARK

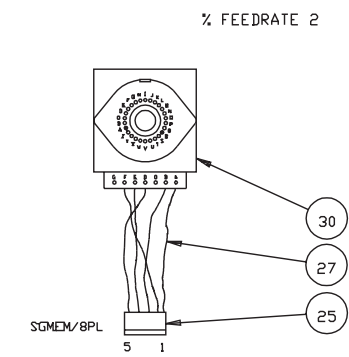
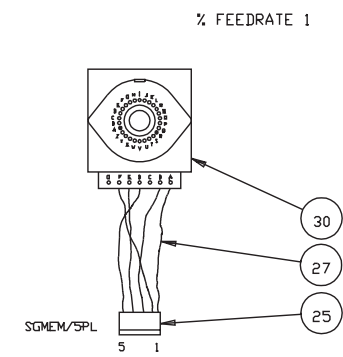
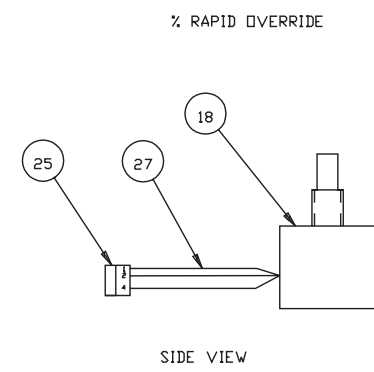
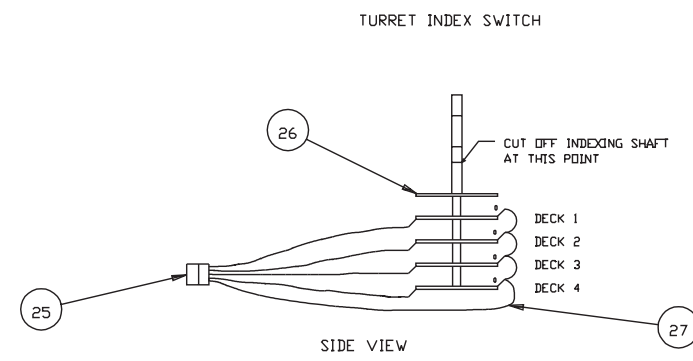
NAME
MTB ENGLISH PANEL
ASS'Y BOM

PART NUMBER
CLA0011844EN A



DATE: MTB PANEL ASSEMBLY RT CEMARK
PART NUMBER: CL 0011844RTE

Operator Control Panel, End-Working Turret, CE Mark



17 16 39 40

NAME
MTB PANEL ASSEMBLY
RT CEMARK

PART NUMBER
CL 0011844RTE

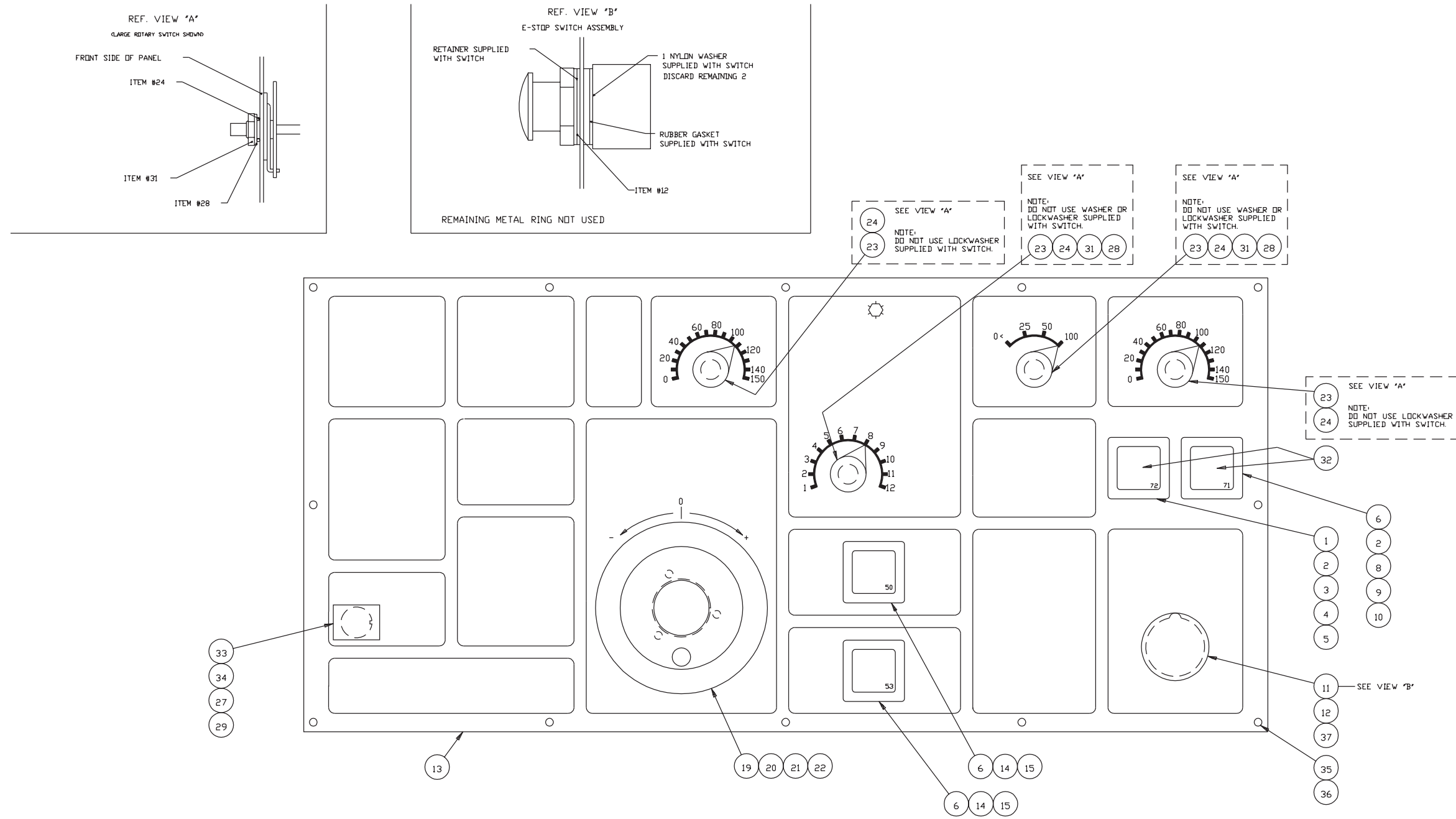
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ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	MC 0010224ES	1.0000	SWITCH, OPERATOR SQUARE-EXTE
2	HGA000291101	2.0000	LIGHT UNIT
3	HG 001001906	1.0000	CONTACT BLOCK, NC
4	HGA000291102	1.0000	LED, 24VDC, RED
5	MC 0009971RS	1.0000	LENS, SWITCH SQUARE - RED
6	MC 0010224FS	3.0000	SWITCH, OPERATOR SQUARE-FLUS
8	HG 001001905	1.0000	CONTACT BLOCK, NO
9	HGA0002911	1.0000	LED, 24VDC, GREEN
10	MC 0009971GS	1.0000	LENS, SWITCH SQUARE - GREEN
11	NTA000997201	1.0000	SWITCH EMERGENCY
12	CN 0010116 B	1.0000	GASKET, E STOP SWITCH
13	SG 0011844PE	1.0000	MTB PANEL SG / CL CEMARK
14	HGA001001901	2.0000	CONTACT BLOCK
15	MC 0009971CS	2.0000	LENS, SWITCH SQUARE - CLEAR
16	AH 0009910	5.0000	TY RAP
17	LM 0008104	4.0000	TY-RAP
18	CN 000283403	1.0000	SWITCH, ROTARY (12 POSITIONS)
19	FCA0011796	1.0000	GENERATOR, MANUAL PULSE
20	CN 0010116PG	1.0000	GASKET, MPG
21	CNA001150501	1.0000	RETAINER, MPG
22	MS 0453441	3.0000	SCREW, FL.HD.SLOT M4X.7X14MM
23	CS 0006578	4.0000	KNOB
24	CN 001011697	4.0000	GASKET, ROTARY SWITCH
25	CN 00120425R	4.0000	RECEPTACLE, 5 PDS
26	CN 000283404	1.0000	SWITCH, ROTARY (18 POSITIONS)
27	2210002874BR	36.8150	WIRE - BROWN
28	CS 0007910	2.0000	WASHER
29	CN 000918802	2.0000	STAKON, F.TAB.11 X .02,22-1
30	CS 000283402	2.0000	SWITCH, BCD ENCODER ROTARY
31	CS 000406803	2.0000	NUT
32	MCA0010366	1.0000	TAG KIT
33	CN 000283407	1.0000	SWITCH, KEYLOCK
34	CN 00120422R	1.0000	2 PDS. RECEPTACLE
35	MS 0303315	12.0000	SCREW, BUTTON HD. M3X.5X10MM
36	RF 0011971	1.0000	BAG - MAIL
37	CN 0009972CB	2.0000	CONTACT BLOCK FOR NT-9972-1

NAME
MTB PANEL ASSEMBLY
RT CEMARK

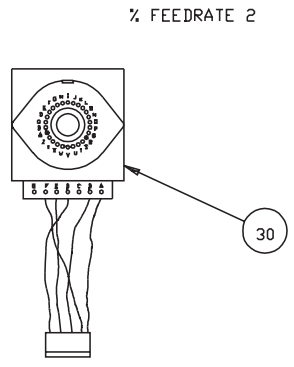
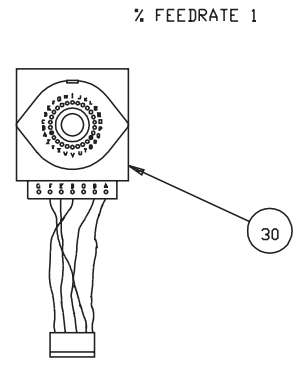
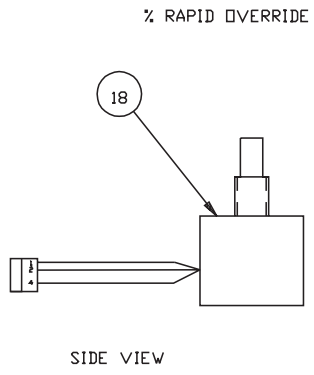
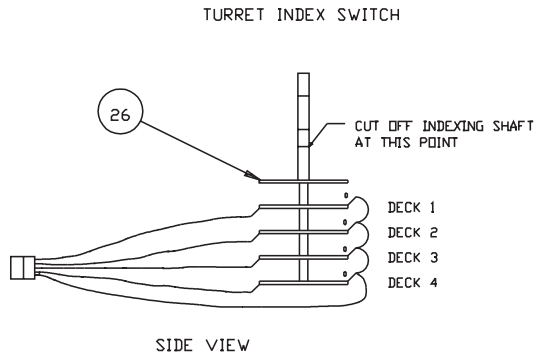
PART NUMBER
CL 0011844RTE

Operator Control Panel, End-Working Turret, Non-CE Mark



FILE NUMBER
 MTB ENGLISH PANEL
 LAYOUT ASS'Y

FILE NUMBER
 CL 0011844ENRT



NOT SHOWN ON DWG.

17 16 7 39 40

DATE
MTB ENGLISH PANEL
ASS'Y ELECTRICAL

PART NUMBER
CL 0011844ENRT

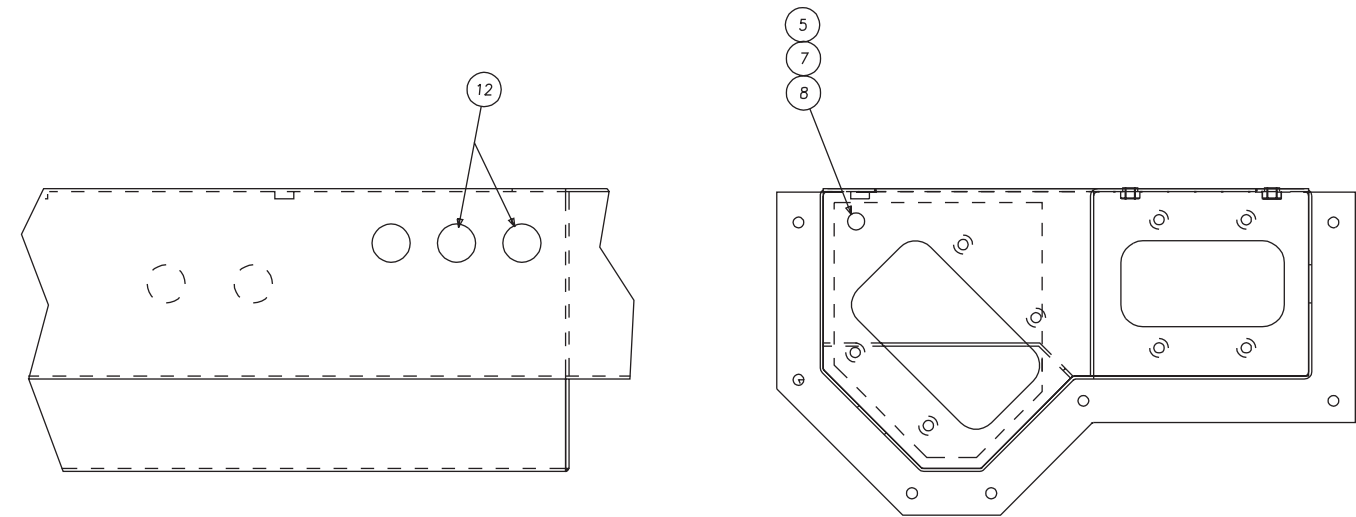
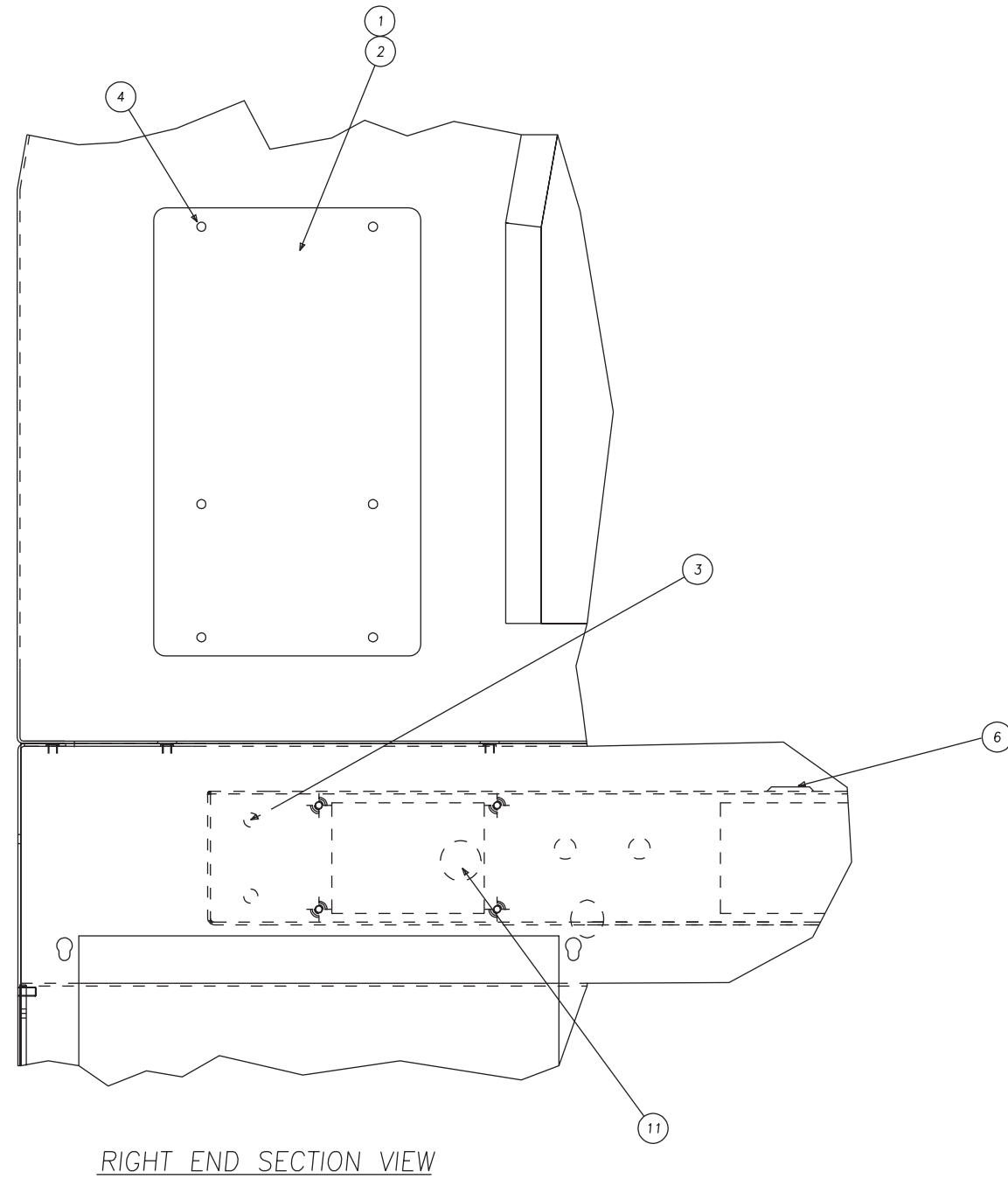
Operator Control Panel, End-Working Turret, Non-CE Mark



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	MC 0010224ES	1.0000	SWITCH, OPERATOR SQUARE-EXTE
2	HGA000291101	2.0000	LIGHT UNIT
3	HG 001001906	1.0000	CONTACT BLOCK, NC
4	HGA000291102	1.0000	LED, 24VDC, RED
5	MC 0009971RS	1.0000	LENS, SWITCH SQUARE - RED
6	MC 0010224FS	3.0000	SWITCH, OPERATOR SQUARE-FLUS
7	SG 0011622	2.6700	SLEEVE, PLASTIC COIL, 3/16"-2"
8	HG 001001905	1.0000	CONTACT BLOCK, NO
9	HGA0002911	1.0000	LED, 24VDC, GREEN
10	MC 0009971GS	1.0000	LENS, SWITCH SQUARE - GREEN
11	SG 000365012	1.0000	SWITCH E-STOP, 3 POLE
12	CN 0010116 B	1.0000	GASKET, E STOP SWITCH
13	SG 0011844EN	1.0000	MTB PANEL - SG-CEMARK
14	HGA001001901	2.0000	CONTACT BLOCK
15	MC 0009971CS	2.0000	LENS, SWITCH SQUARE - CLEAR
16	AH 0009910	5.0000	TY RAP
17	LM 0008104	4.0000	TY-RAP
18	CN 000283403	1.0000	SWITCH, ROTARY <12 POSITIONS
19	FCA0011796	1.0000	GENERATOR, MANUAL PULSE
20	CN 0010116PG	1.0000	GASKET, MPG
21	CNA001150501	1.0000	RETAINER, MPG
22	MS 0453441	3.0000	SCREW, FL.HD.SLOT M4X.7X14MM
23	CS 0006578	4.0000	KNOB
24	CN 001011697	4.0000	GASKET, ROTARY SWITCH
25	CN 00120425R	6.0000	RECEPTACLE, 5 POS
26	CN 000283404	1.0000	SWITCH, ROTARY <18 POSITIONS
27	2210002874BU	37.9300	WIRE
28	CS 0007910	2.0000	WASHER
29	CN 000918802	2.0000	STAKON, F.TAB.11 X .02,22-1
30	CS 000283402	2.0000	SWITCH, BCD ENCODER ROTARY
31	CS 000406803	2.0000	NUT
32	MCA0010366	1.0000	TAG KIT
33	CN 000283407	1.0000	SWITCH, KEYLOCK
34	CN 00120422R	3.0000	2 POS. RECEPTACLE
35	MS 0303315	12.0000	SCREW, BUTTON HD. M3X.5X10MM
36	RF 0011971	1.0000	BAG - MAIL
37	SG 0010019	2.0000	CONTACT BLOCK
38	CK 000918820	12.0000	FERRULES, 20 AWG
39	CL 0003011CEMP	1.0000	CABLE PACKAGE, MEM. PANEL
40	CS 001036634	1.0000	TAG, CONQUEST DT-C COVER-U

MTB ENGLISH PANEL
ASS'Y BOM

CL 0011844ENRT



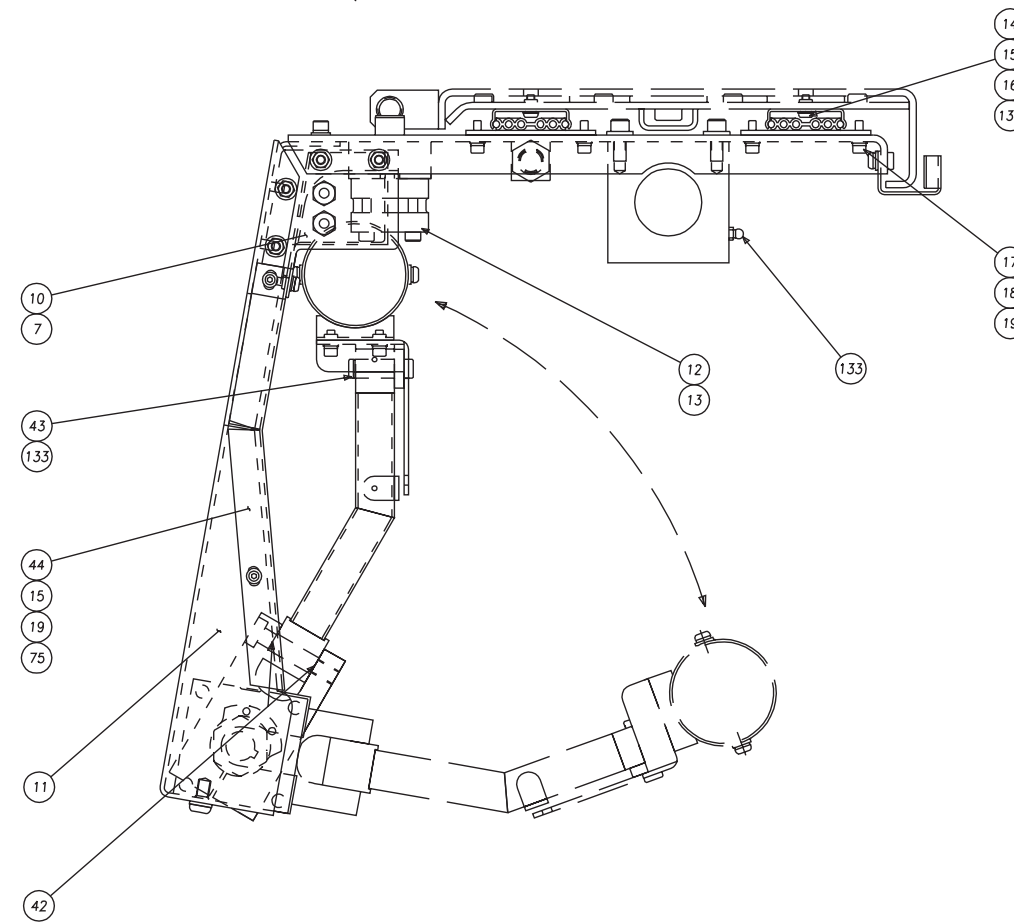
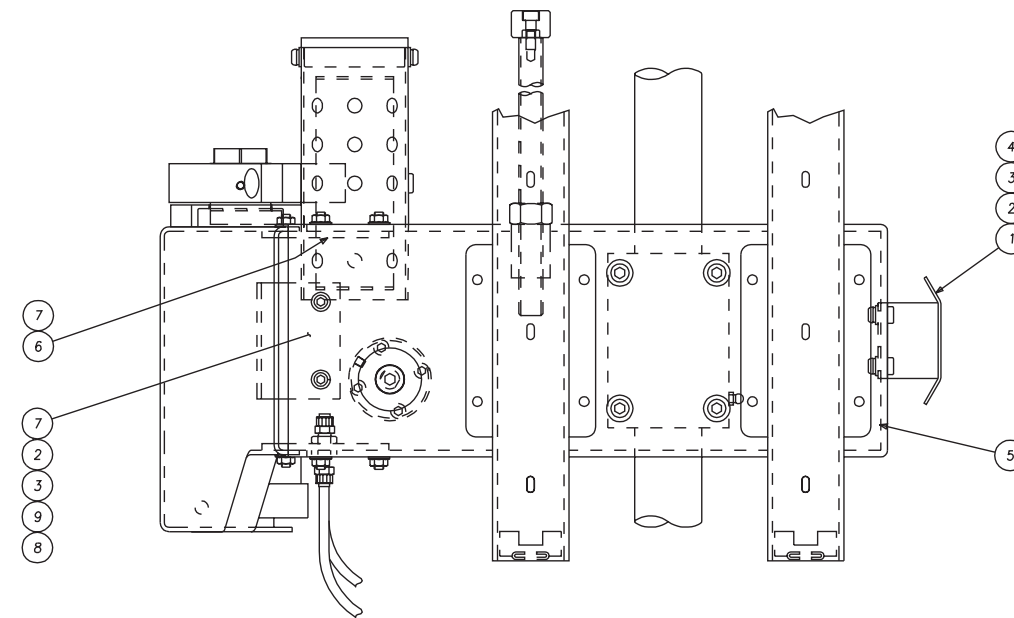
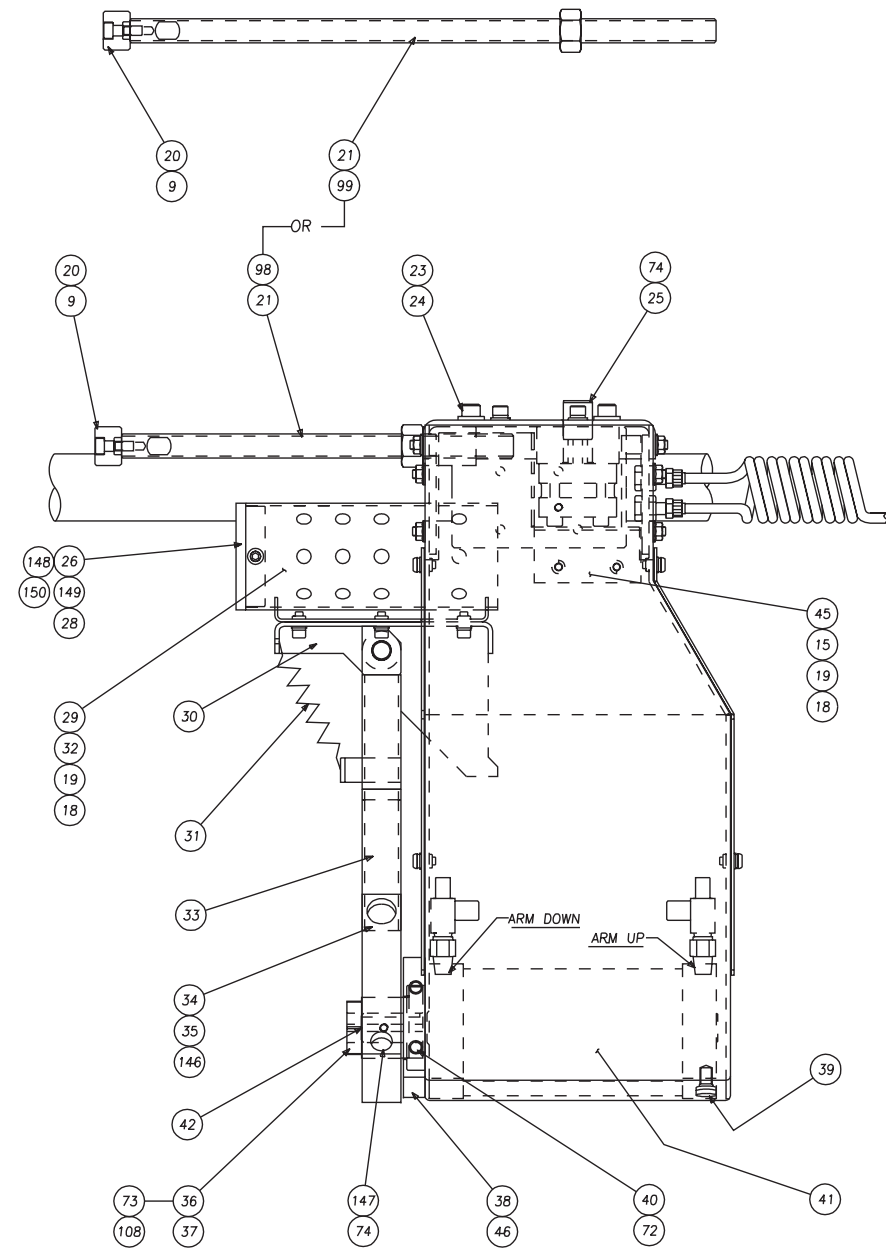
12	CS-0010331-03	1	PLUG
11	MN-0103510	1	NUT, HEX M5 X .8
8	MS-0303817	1	SCREW, BUTTON HEAD
7	MN-0113810	1	NUT, FLANGED HEX
6	CL-0007703-02	1	PLUG, CAP
5	GE-0010884	1	SEALANT, SILICONE
4	MN-0283610	6	NUT, M6 FLANGED
3	MS-0303815	2	SCREW, BT. HD. M8-1.25
2	CL-0010116-51	1	GASKET
1	CL-0010115-96	1	COVER
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
MACHINE LESS OVERHEAD PART CATCHER

PART NUMBER
CL-0002916-LOH

SHEET
1 of 1

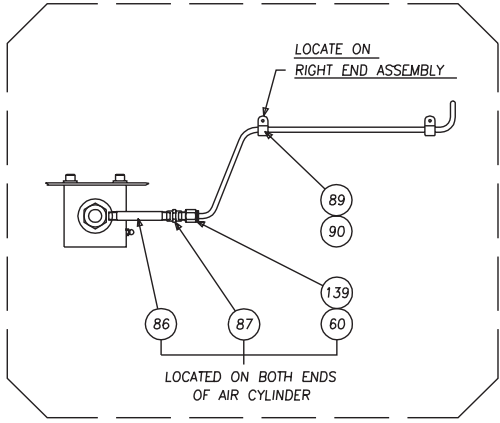
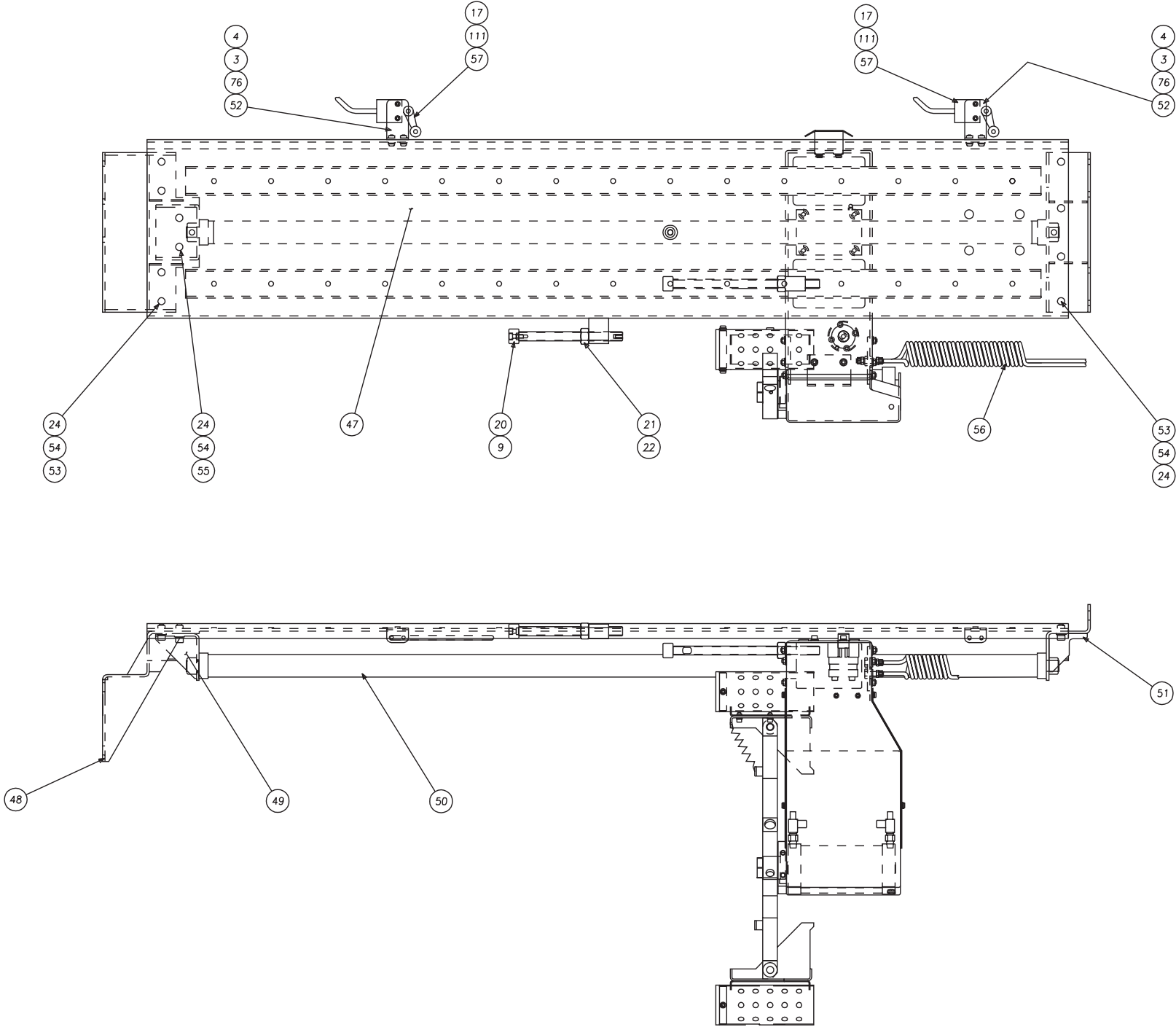
Part Catcher, Machine with Sub-Spindle or End-Working Turret



NAME
PART CATCHER, OVERHEAD
ASSEMBLY (CL)

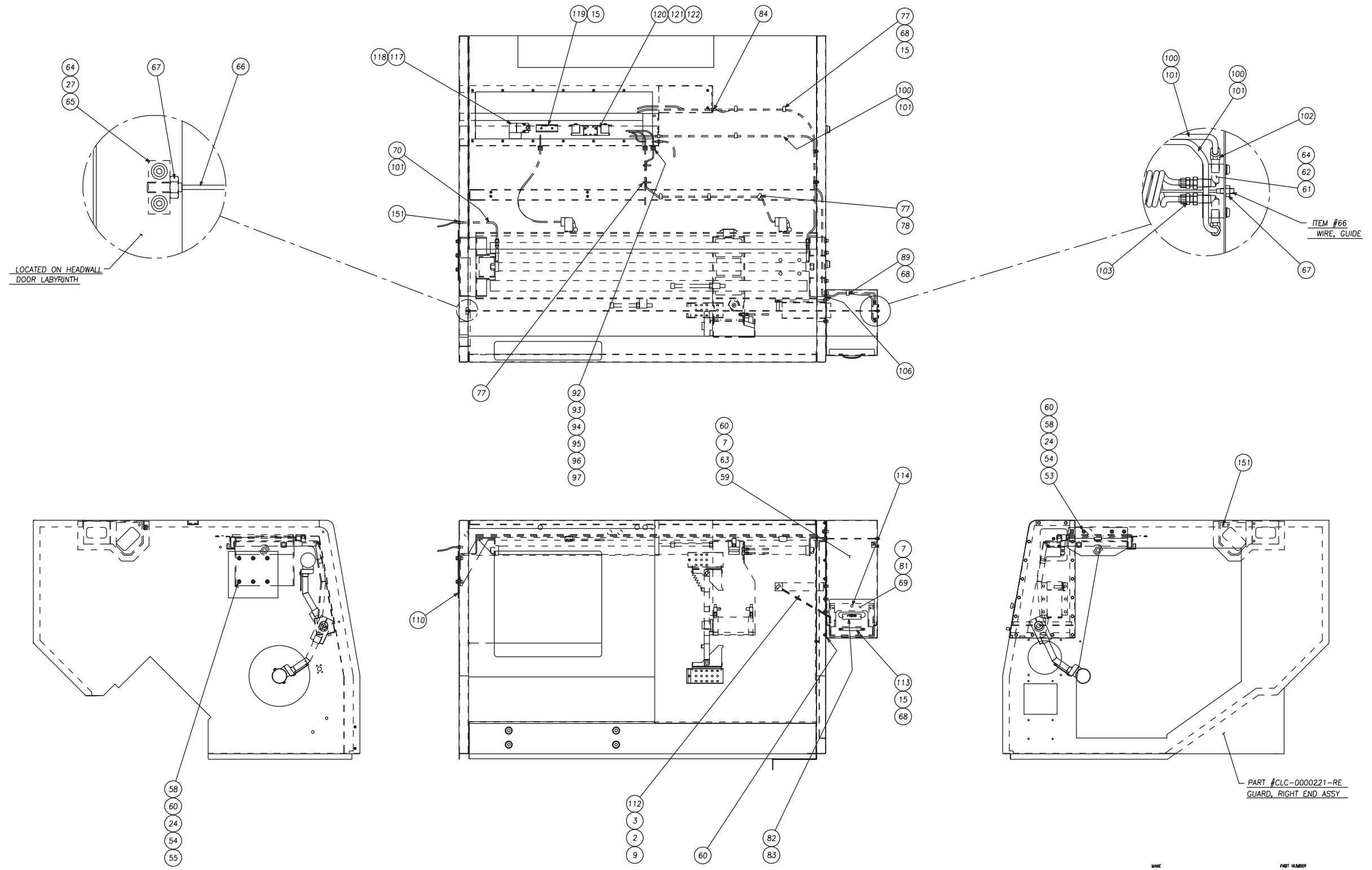
PART NUMBER
CL-0002916-SS

SHEET
1 of 5

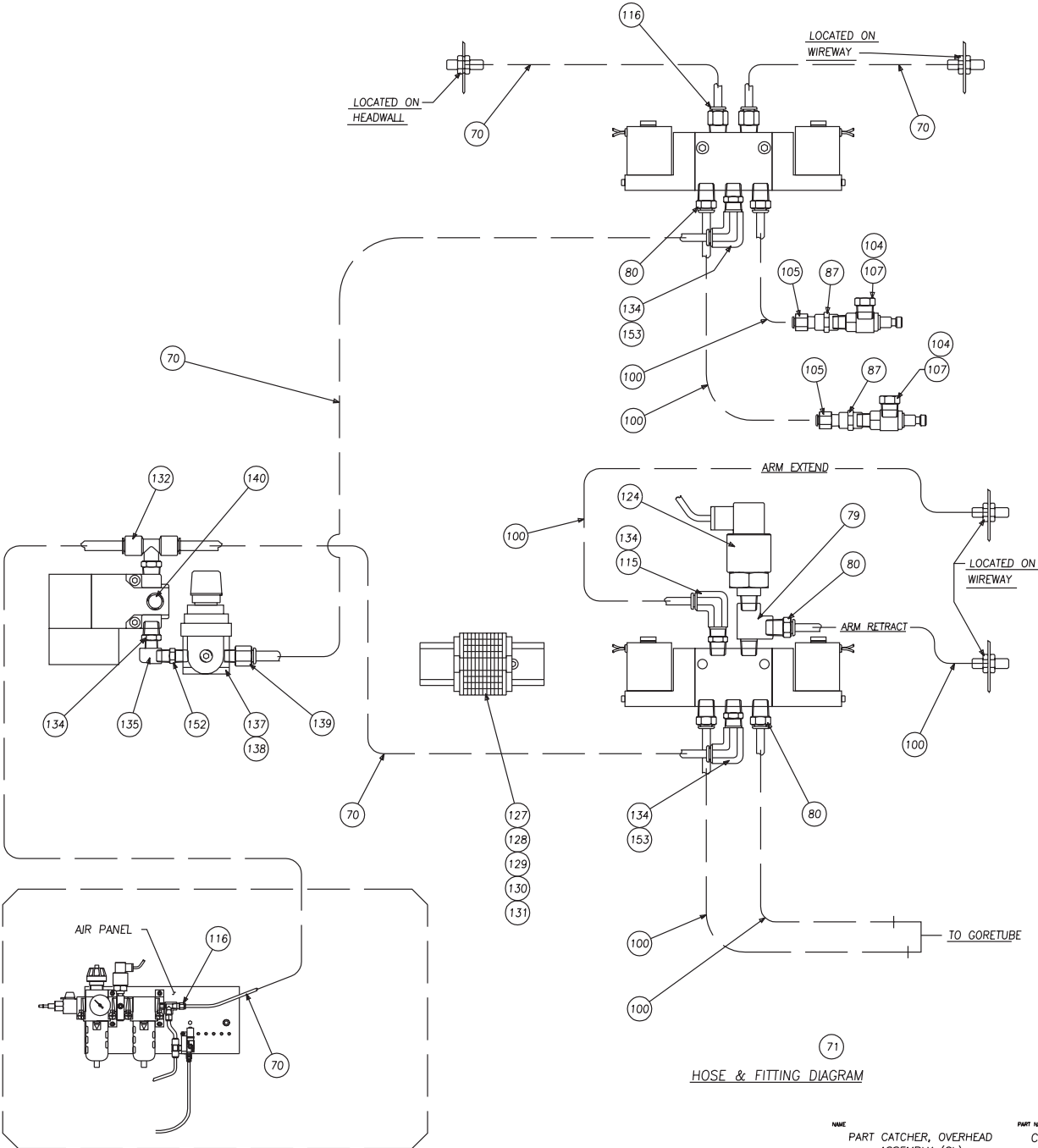
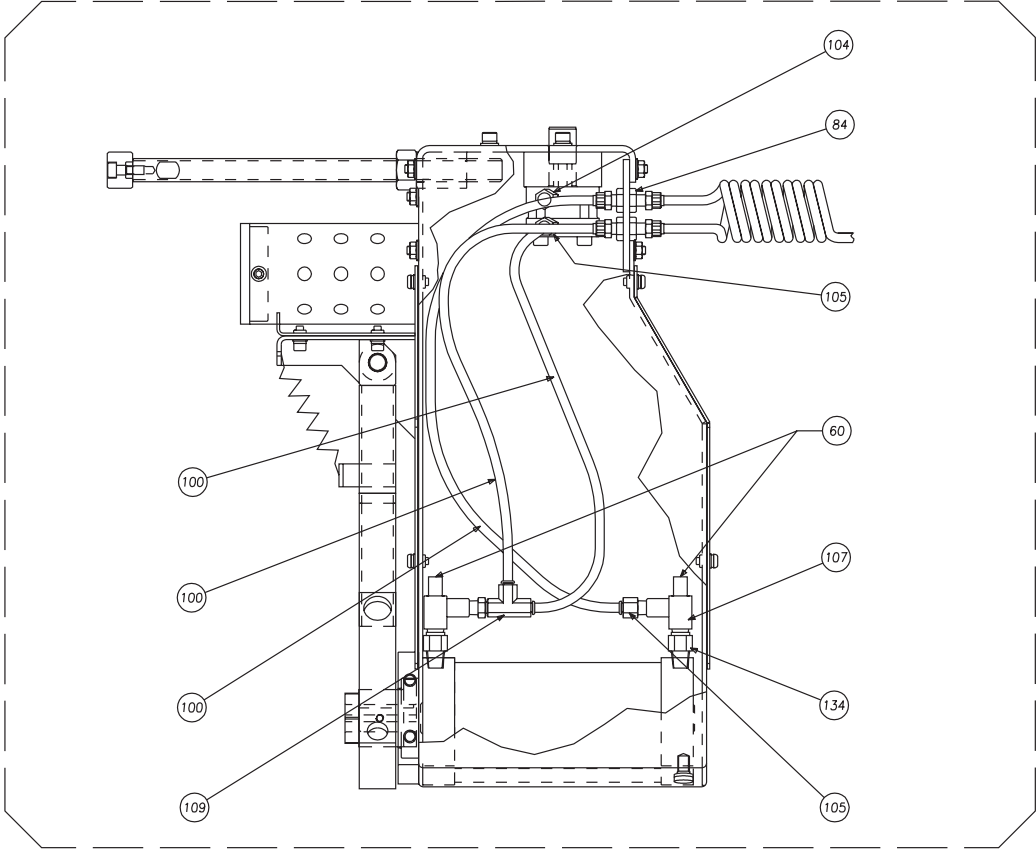


NAME PART CATCHER, OVERHEAD ASSEMBLY (CL) PART NUMBER CL-0002916-SS SHEET 2 of 5

Part Catcher, Machine with Sub-Spindle or End-Working Turret



WIRE PART CATCHER, OVERHEAD ASSEMBLY
PART NUMBER CL-0002916-SS
PAGE 3 of 5



NAME PART CATCHER, OVERHEAD ASSEMBLY (CL)
 PART NUMBER CL-0002916-SS
 SHEET 4 of 5

Part Catcher, Machine with Sub-Spindle or End-Working Turret

NOTE: PARTS NOT SHOWN ON DRAWING.

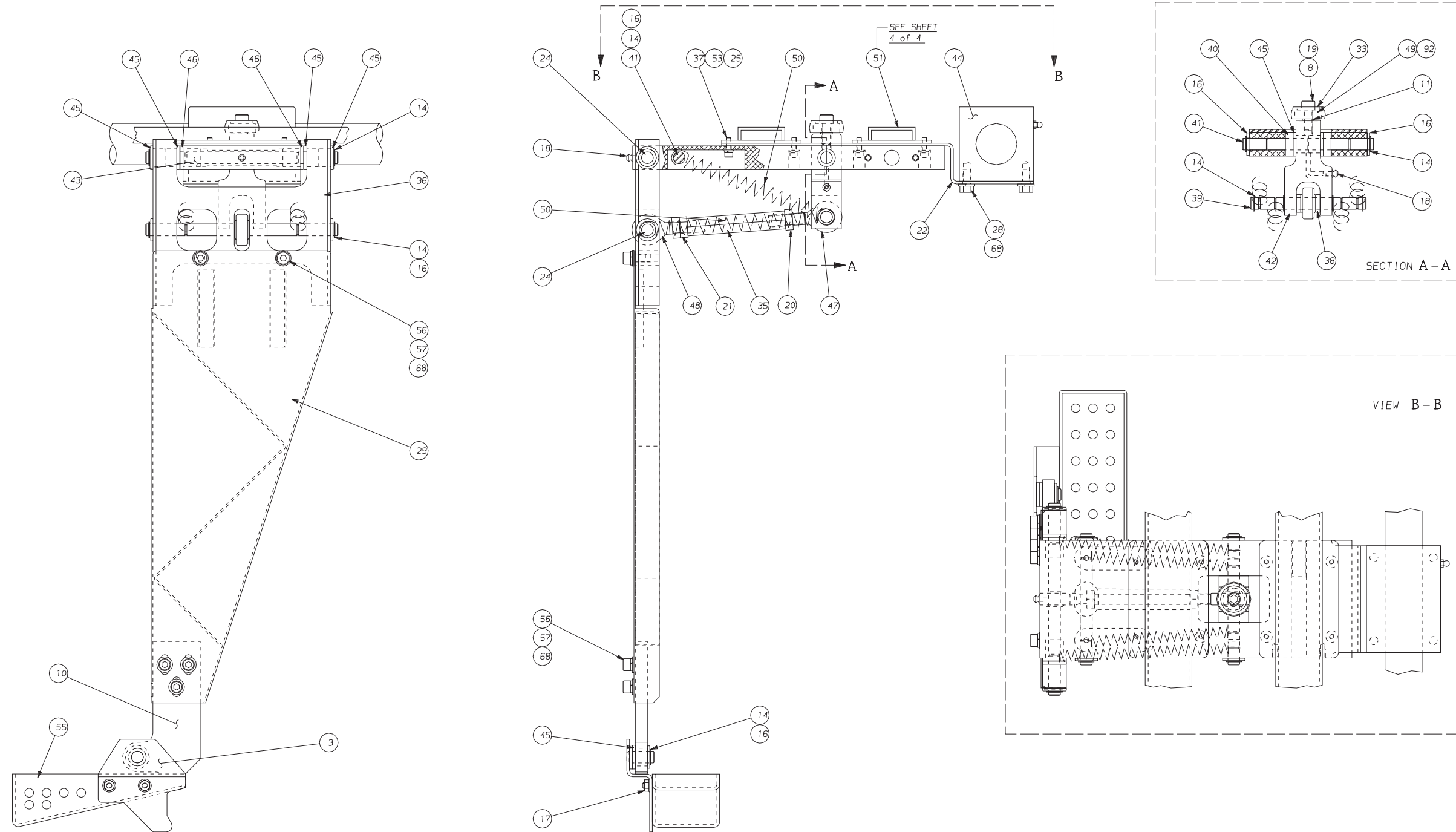
(141) (142) (143) (144) (145)

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	0	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
118	MS-0103524	2	M5 SCREW, SKHD CP x 50mm
ITEM	PART NUMBER	QTY	DESCRIPTION

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	0	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	16	SLEEVE
100	AH-0007007-NF	27	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	2	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	5P-0006431-B	4	WASHER, FLAT
75	MD-0003623-B	4	WASHER, FLAT
74	NC-0010884	0	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-S	1	SEALANT, PIPE
70	HG-0007007	25	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-0011623-01	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	0	SEALANT, SILICONE
59	CL-0004990-36	1	HOUSING, PARTS BUCKET
58	MN-0283810	10	M8 NUT, FLANGE
ITEM	PART NUMBER	QTY	DESCRIPTION

57	CSA-0010224-01	2	SWITCH, LIMIT
56	CLA-0007707-08	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-0002917-02	1	CYLINDER, RODLESS
49	CL-0002916-17	1	BRACKET, CYLINDER
48	CL-0002916-16	1	SUPPORT, LEFT SIDE
47	CL-0002916-15	1	FRAME, SUPPORT
46	0100812	4	5/16-18T SCREW, SKHD x 3/8
45	CL-0010215-52	1	COVER, CYLINDER
44	CL-0010215-50	1	COVER, FRAME
43	50-0008231-02	1	RING, RETAINING
42	VS-0010440	0	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 1/2
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 40mm
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
26	CL-0011750	1	END CAP
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	30	M5 WASHER, STAR
15	MS-0303516	42	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 PART CATCHER, OVERHEAD ASSEMBLY (CL) PART NUMBER CL-0002916-SS SHEET 5 of 5

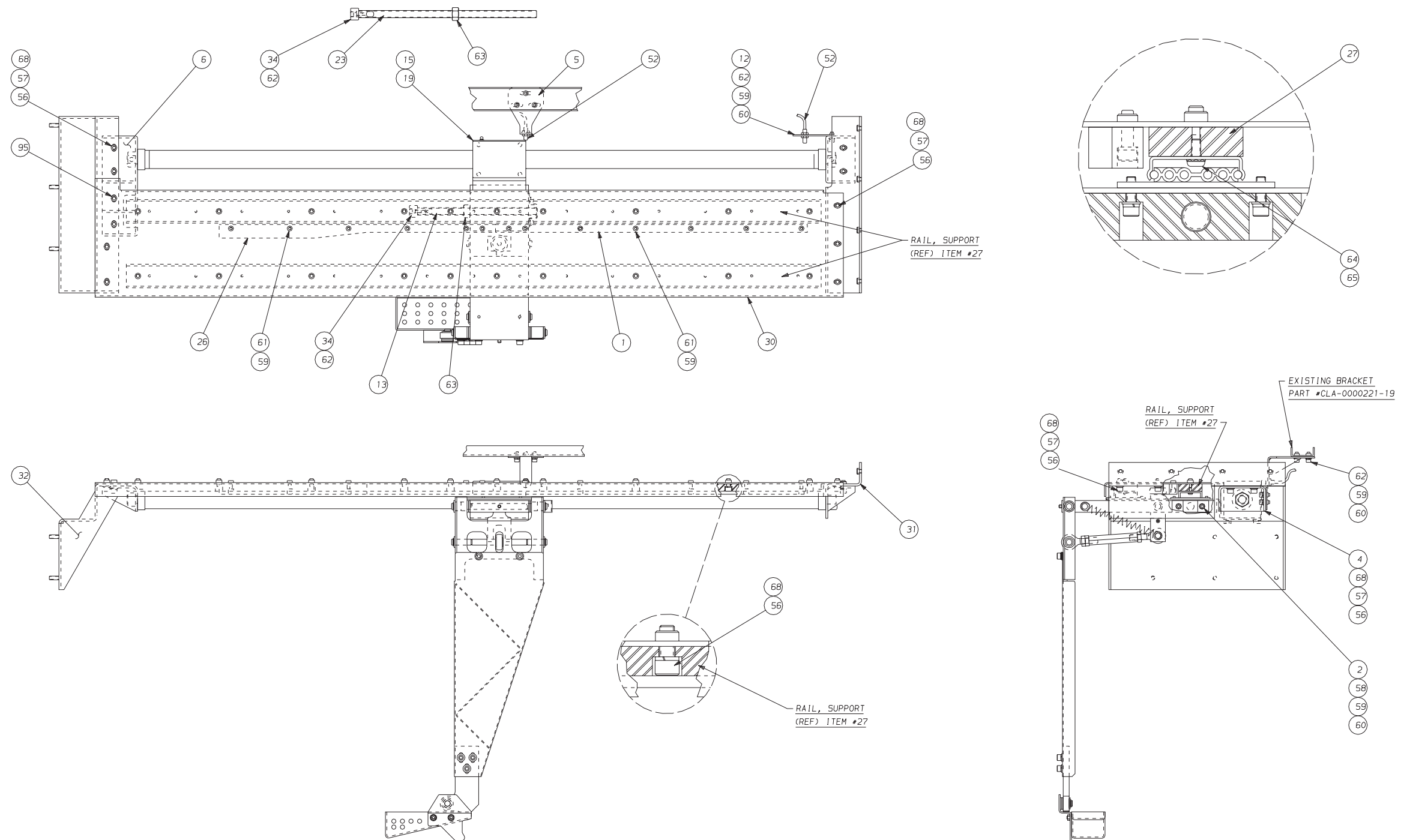


NAME
PART CATCHER, OVERHEAD

PART NUMBER
LO-0002593

SHEET
1 of 4

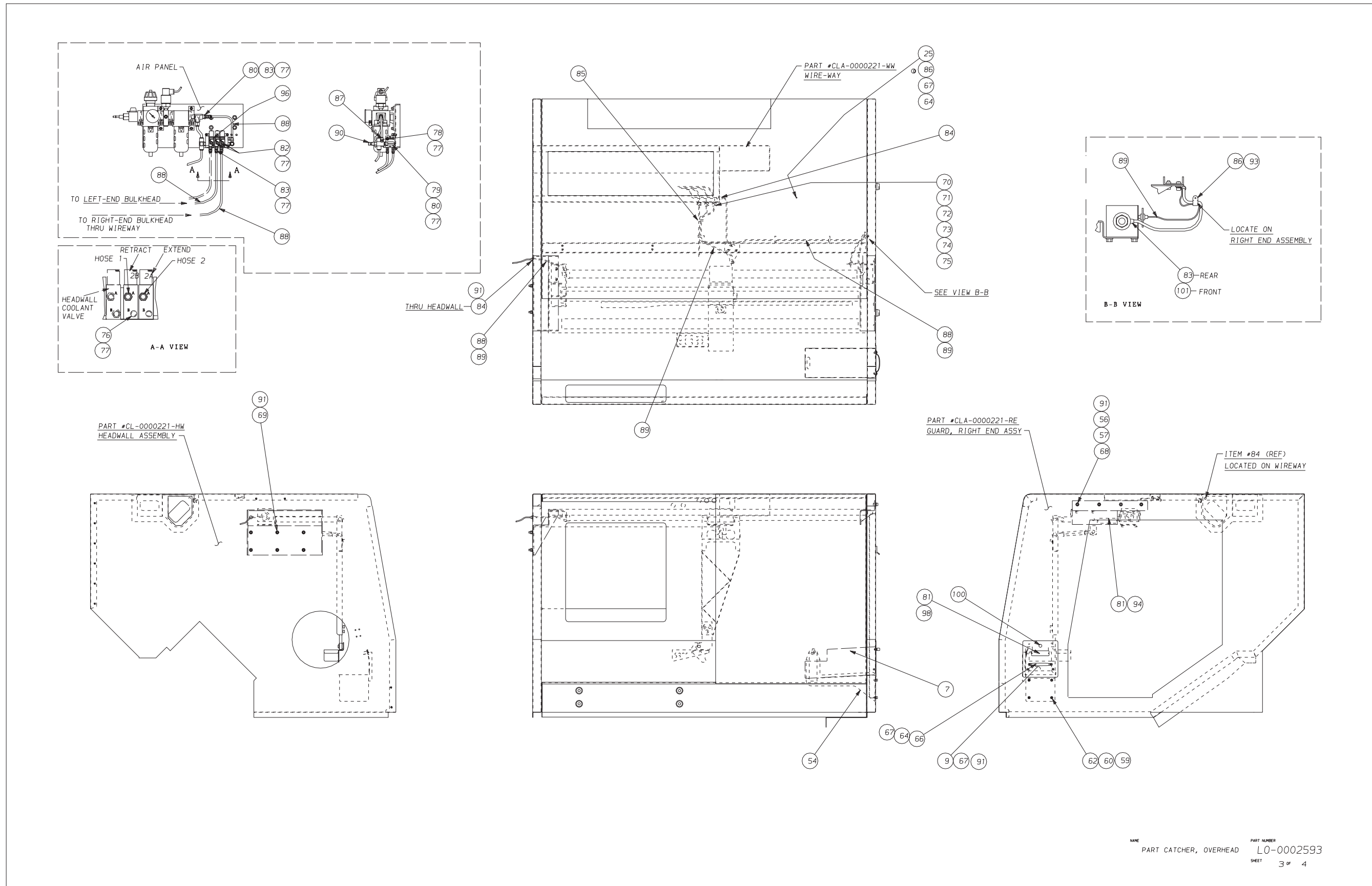
Part Catcher, Machine without Sub-Spindle or End-Working Turret



NAME
PART CATCHER, OVERHEAD
(FOR CS-51, CS-65)

PART NUMBER
LO-0002593

SHEET
2 of 4



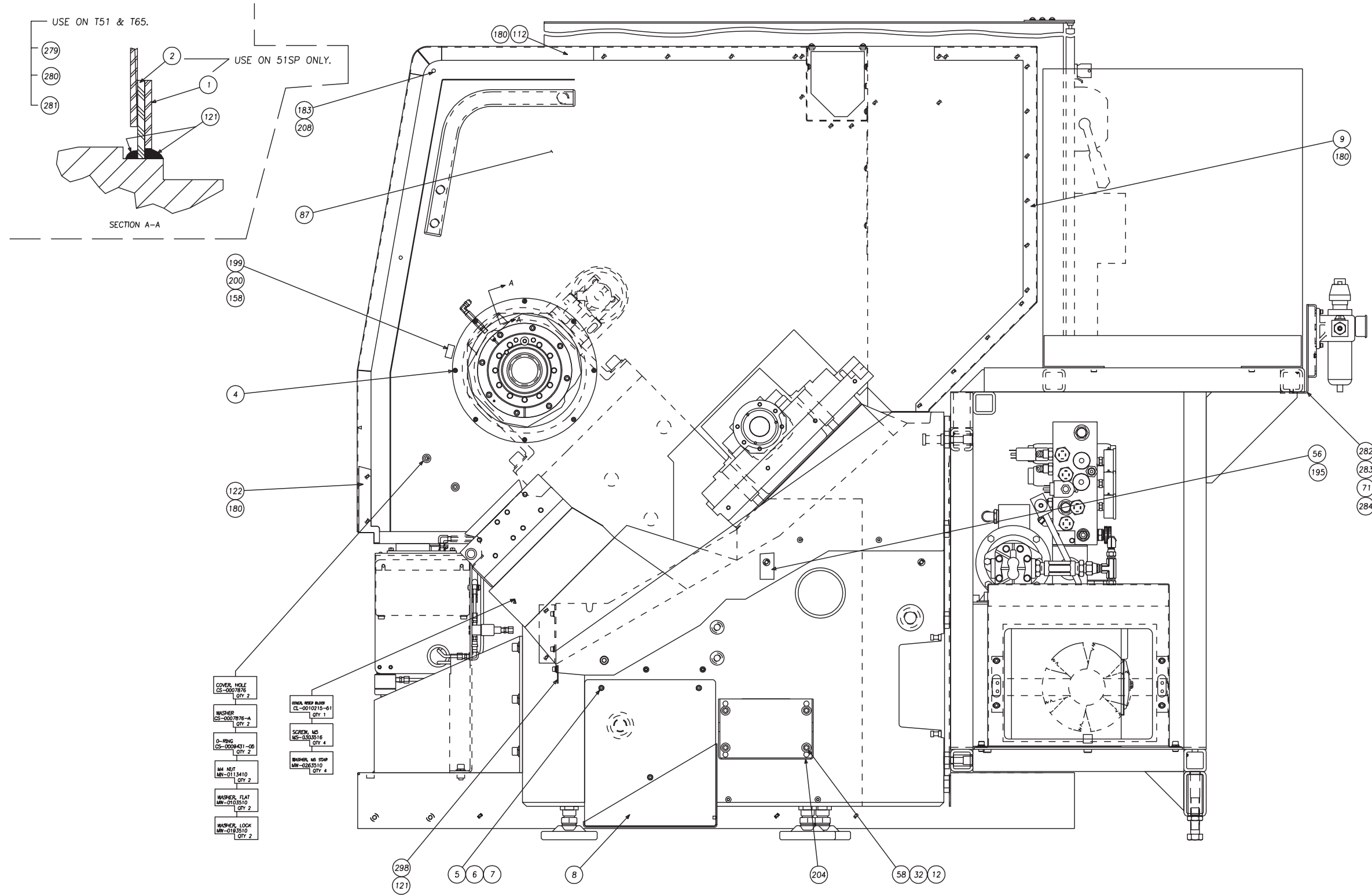
NAME PART CATCHER, OVERHEAD PART NUMBER LO-0002593
 SHEET 3 of 4

Part Catcher, Machine without Sub-Spindle or End-Working Turret

101	269-0007702-04	1	FITTING
100	CN-0011738-01	1	LATCH
98	CL-0010302-03	1	TAG, WARNING
96	CL-0045006	1	ISOLATOR
95	MS-0103819	2	SCREW, M8 SKHD CAP
94	CS-0010302-02	1	TAG, CAUTION
93	MS-0303618	1	SCREW, M6-1 X 20
92	CN-0010884	.02	ADHESIVE, LOCTITE 680
91	GE-0010884	.6	SEALANT, SILICONE
90	CS-0010779-04	1	REGULATOR AD1 #53-01-02 1
89	CL-0009938	126	SLEEVE
88	AH-0007007-NF	397	TUBING, 1/4"
87	RF-0010786-01	1	FITTING, STRAIGHT PARKER
86	SB-0006966	2	TIE-DOWN
85	AD-0008104	4	TY-WRAP
84	AM-0007703	2	FITTING, BULKHEAD
83	268-0007702-04	4	FITTING
82	CL-0003048-9	2	VALVE, AIR
81	R-0008044	4	PIN
80	AUA-0010785	2	ADAPTER
79	A0-0010786	1	ELBOW, 1/4 NPT
78	RF-0011335-1	1	MUFFLER
77	LT-0010884-S	.14	SEALANT, PIPE
76	S-0001467	2	PLUG, PIPE
75	DB-0009207-9A	2	BODY
74	DB-0009207-W	2	WASHER
73	DB-0009207-9B	2	NUT, COMPRESSION
72	AH-0011508	2	NUT, LOCK
71	S0-0010226	2	WASHER, SEAL
70	DB-0009207-9F	2	GROMMET
69	MN-0283810	6	FLANGE NUT, M8 x 1.25
68	MW-0193810	50	WASHER, LOCK
67	MN-0283510	5	M5 NUT, FLANGE
66	CG-0010642	1	HANDLE
65	MW-0263510	30	M5 WASHER, STAR
64	MS-0303516	33	M5 SCREW, BUTTON HD CP x
63	CL-0000492-05	2	HEX NUT, 5/8-11UNC
62	MS-0103617	11	SCREW, M6 SKHD CP x 16mm
61	MS-0103618	13	SCREW, M6 SKHD CP x 20mm
60	MW-0103610	11	M6 WASHER, FLAT
59	MW-0193610	23	M6 WASHER, LOCK
58	MS-0103615	2	SCREW, M6 SKHD CP x 10mm
ITEM	PART NUMBER	QTY	DESCRIPTION

57	MW-0103810	27	WASHER, FLAT
56	MS-0103817	45	SCREW, M8 SKHD CAP
55	CL-0003990-72	1	PAN, PARTS CATCHER
54	CLB-0003990-60	1	BRACKET, PARTS CATCHER
53	MW-0103510	8	WASHER, FLAT
52	CL-0010224-02	2	SWITCH, PROXIMITY
51	CL-0006463	2	SLIDE PACK, UPPER TRACK
50	CL-0007335-05	4	SPRING, EXTENSION
49	CL-0004140-02	1	BEARING, SEALED BALL
48	CL-0002850-01	1	BEARING, ROD END LEFT HAN
47	CL-0002850	1	BEARING, ROD END RIGHT HA
46	CL-0011076-01	2	BUSHING, FLANGED
45	CL-0011076	7	BUSHING, FLANGED
44	CL-0002917-02	1	RODLESS CYLINDER
43	CL-0006463-01	1	SLIDE, CATCHER
42	CL-0002920	1	ARM, PIVOT
41	CL-0000796-02	2	SHAFT, PIVOT ARM
40	CL-0010833-02	2	SPACER, PIVOT ARM
39	CL-0000796-01	1	SHAFT, SPRING
38	CL-0010833-01	2	SPACER, SPRING OUTER
37	MS-0103517	8	SCREW, M5 SHCS
36	CL-0000459	1	ARM, SWING
35	CL-0007702-08	1	CONNECTOR, ROD END
34	CL-0011454	2	STOP
33	CL-0011447	1	RACE, CROWNED
32	CL-0003990-47	1	SUPPORT, LEFT END
31	CL-0003990-46	1	SUPPORT, RIGHT SIDE
30	CL-0003990-45	1	FRAME, SUPPORT
29	CL-0003990-44	1	ARM, EXTENDED
28	0150810	4	HEX HD BOLT, 5/16-18T x 5
27	CL-0010448-02	2	RAIL, SUPPORT
26	CLA-0010448-01	1	RAIL, CAM
25	MW-0193510	9	WASHER, LOCK
24	CL-0000796-03	2	SHAFT, SWING ARM
23	CL-0004865-03	1	STOP, ADJUSTABLE
22	CL-0003990-50	1	BRACKET, SLIDE
21	CL-0000492-06	2	NUT, 1/2-20 L.H.
20	AD-0007704-05	1	NUT, BULKHEAD UNION
19	NC-0010884	.06	ADHESIVE, LOCTITE #242
18	CS-0010327	2	FITTING, LUBRICATION
17	MN-0283610	2	M6 NUT, FLANGE
16	MW-0104210	7	WASHER, FLAT
15	CL-0003990-75	1	PLATE, SWITCH
14	S0-0008231-02	13	RING, RETAINING
13	CL-0004865-02	1	STOP, ADJUSTABLE
12	CL-0003990-74	1	BRACKET, SWITCH
11	CL-0007910	1	WASHER, BEARING
10	CL-0000459-01	1	ARM, ADJUSTABLE PIVOT
9	CLA-0010115-95	1	COVER, PARTS CATCHER BUCK
8	0101014	1	SCREW, 3/8-16 x 7/8" LNG
7	CLB-0003990-62	1	BUCKET, PARTS CATCHER
6	CL-0003990-69	1	BRACKET, CYLINDER STOP
5	CL-0003990-67	1	BRACKET, SWITCH
4	CL-0003990-66	1	BRACKET, CYLINDER
3	CL-0003990-65	1	BRACKET, BASKET PIVOT
2	CL-0003990-64	1	STOP
1	CL-0010448-03	1	RAIL, CAM
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME PART CATCHER, OVERHEAD PART NUMBER L0-0002593
SHEET 4 of 4

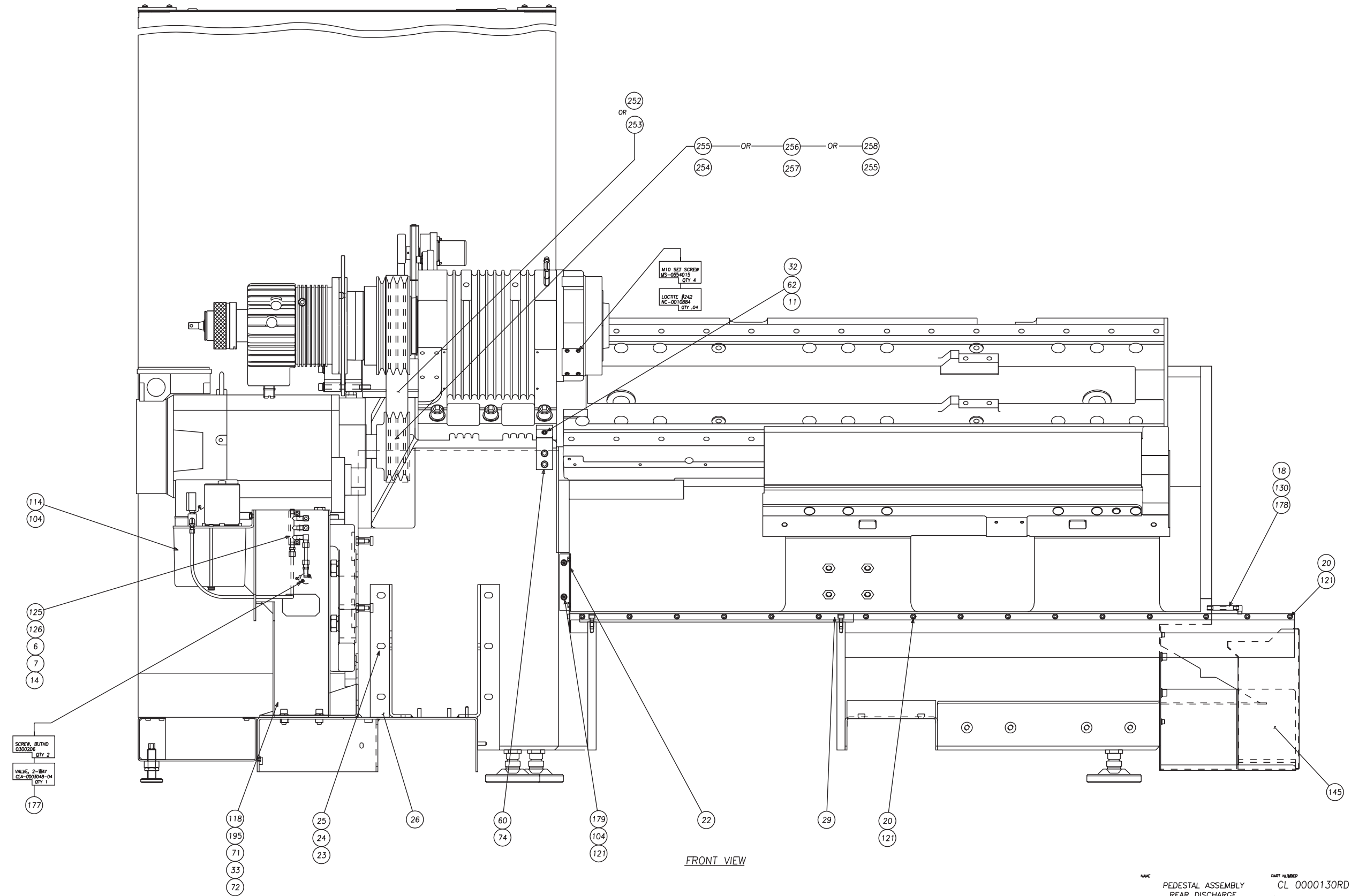


PEDESTAL ASSEMBLY
REAR DISCHARGE

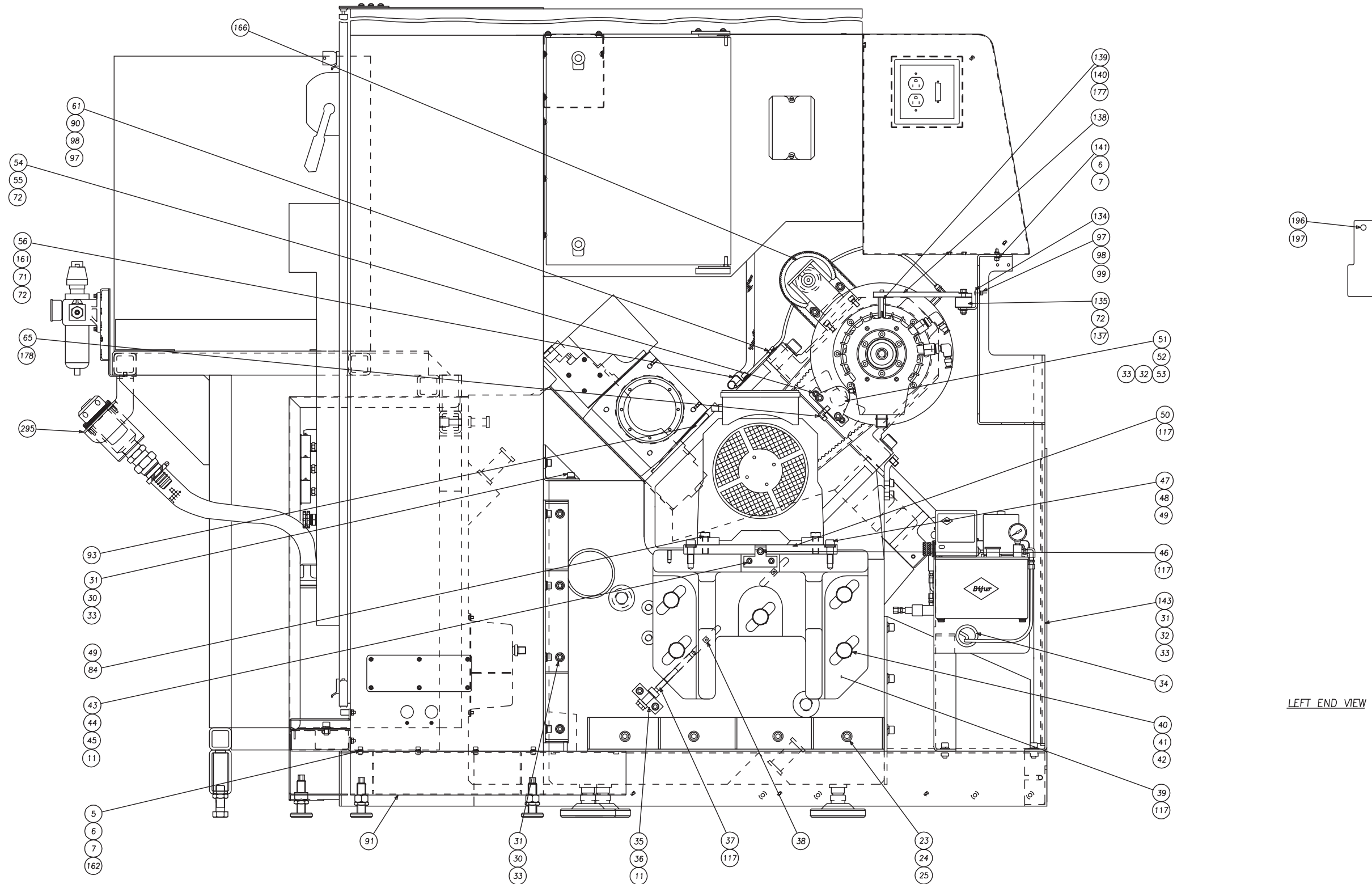
PART NUMBER
CL 0000130RD

#NET 1 of 10

Pedestal Assembly, Rear Discharge Machine



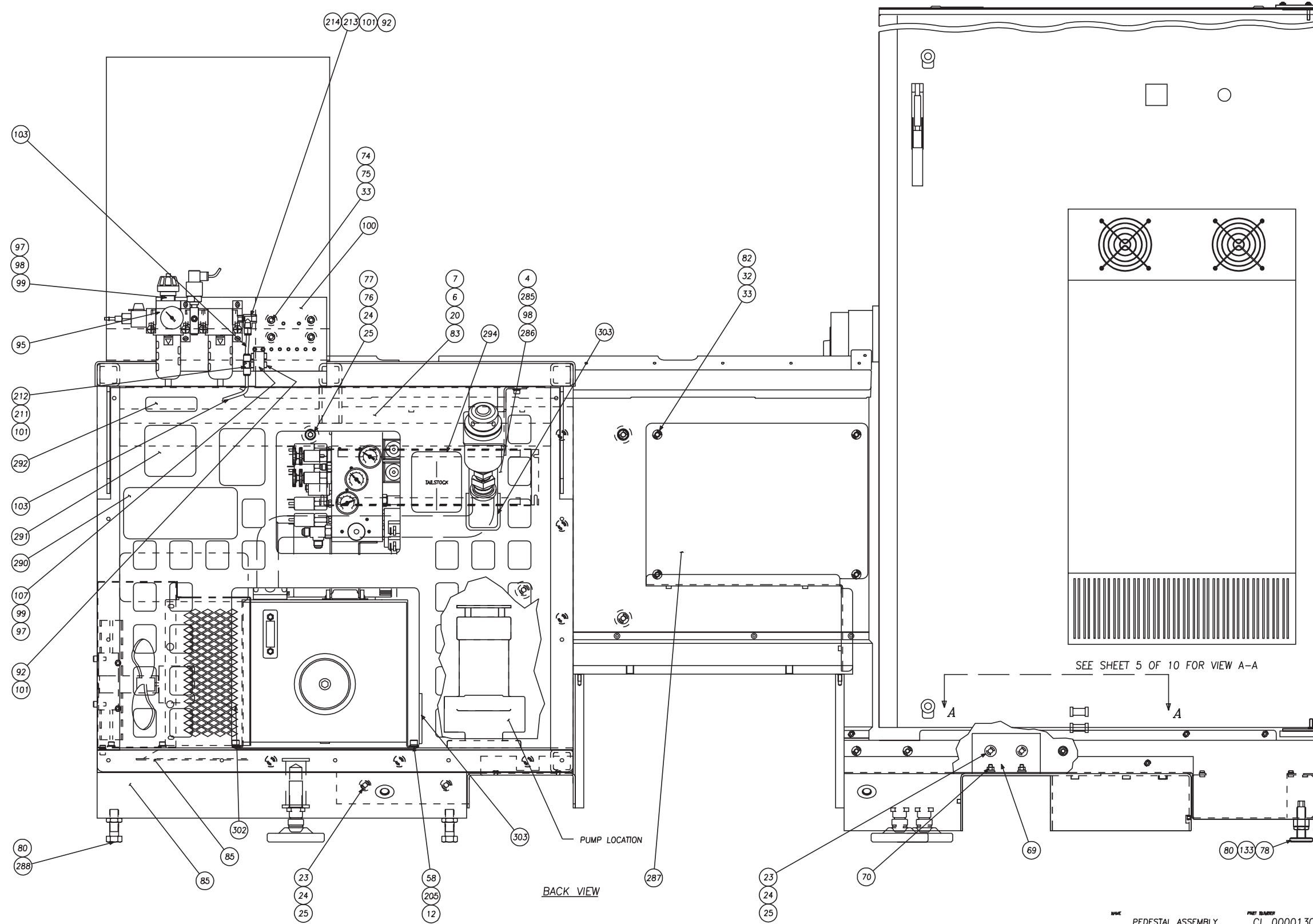
NAME PEDESTAL ASSEMBLY REAR DISCHARGE PART NUMBER CL 0000130RD SHEET 2 of 10



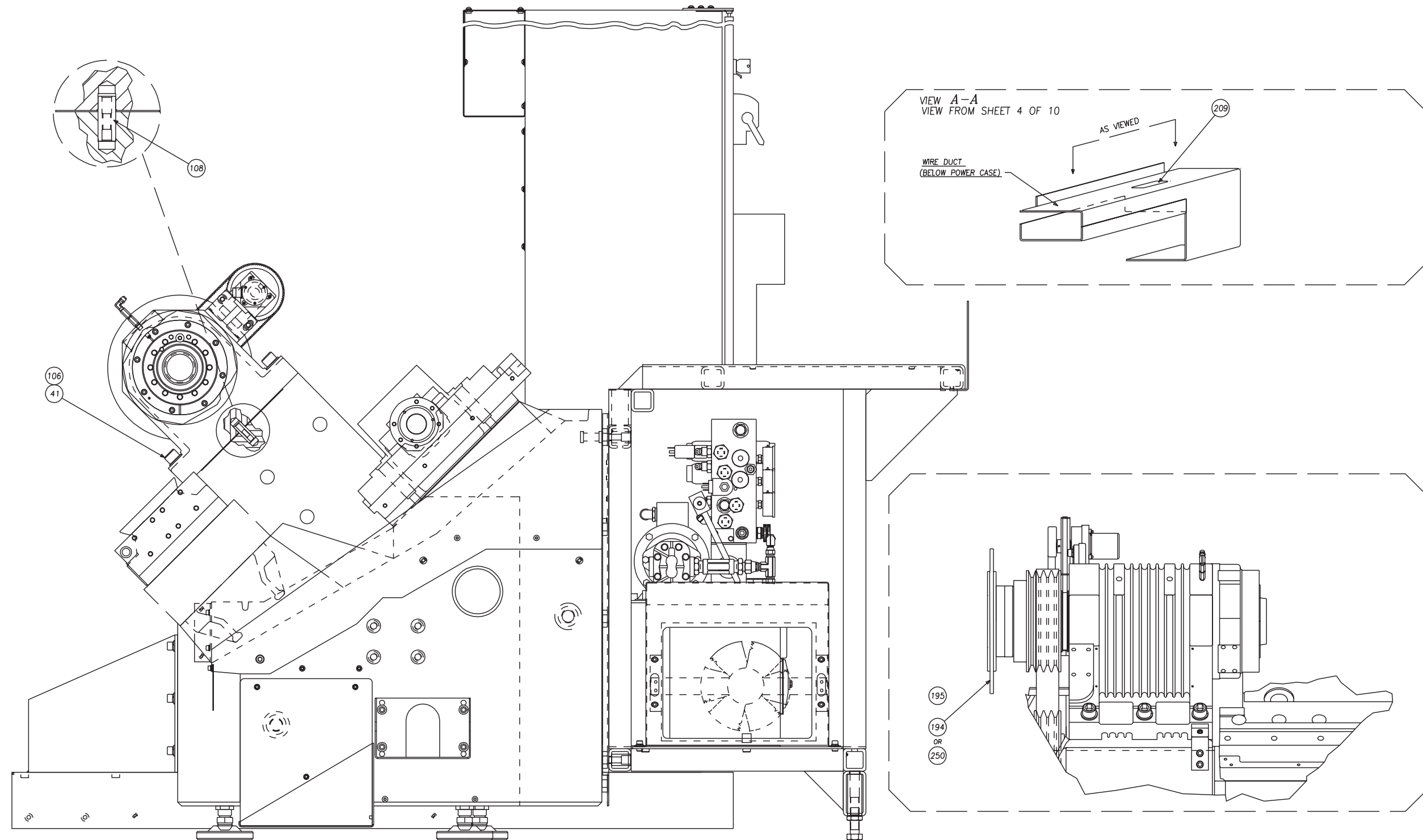
LEFT END VIEW

NAME PEDESTAL ASSEMBLY PART NUMBER CL 0000130RD REV 3 of 10

Pedestal Assembly, Rear Discharge Machine



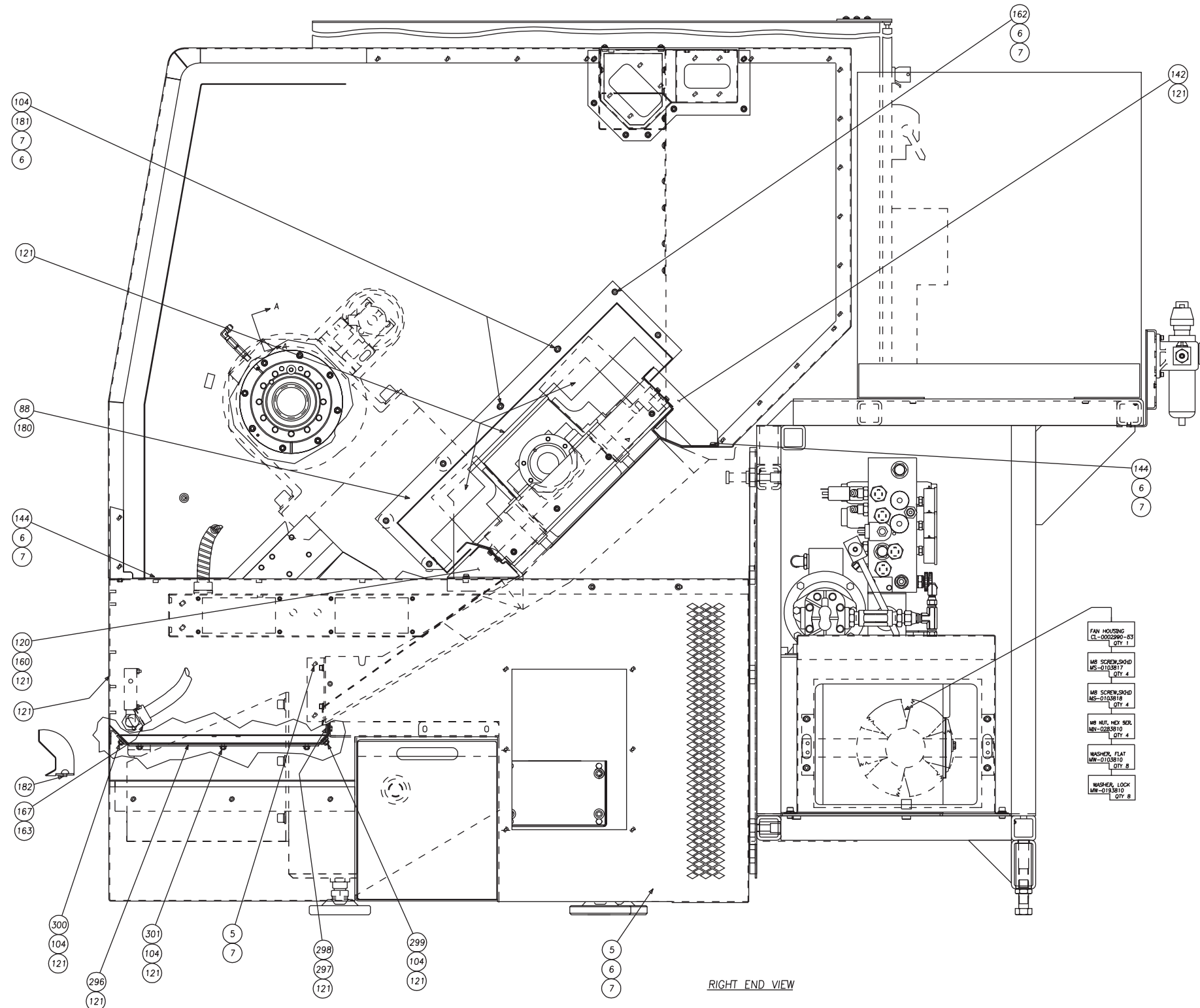
DWG PEDESTAL ASSEMBLY
REAR DISCHARGE
PART NUMBER CL 0000130RD
SHEET 4 of 10



RIGHT END VIEW

NAME PEDESTAL ASSEMBLY PART NUMBER CL 0000130RD SHEET 5 of 10

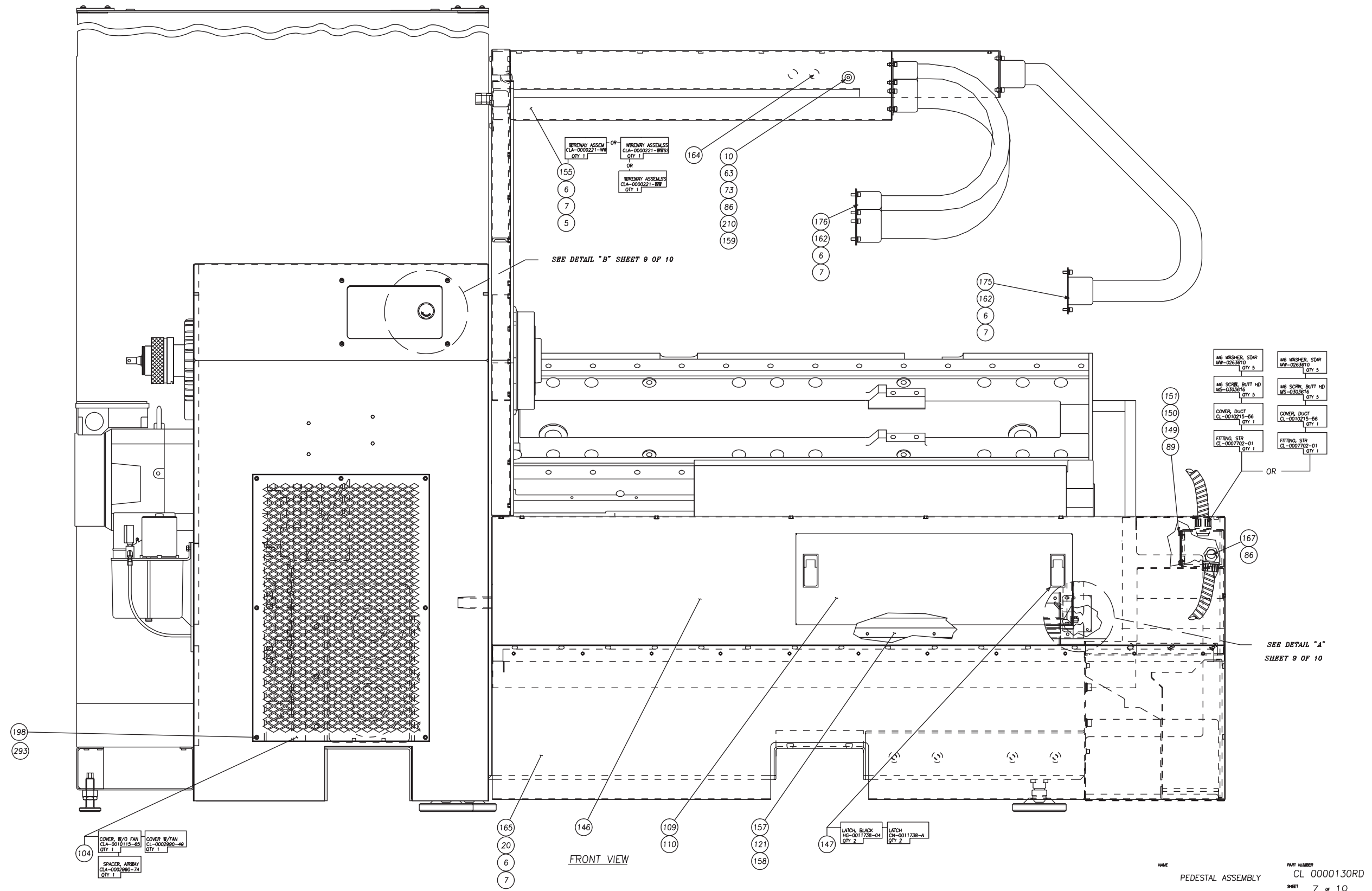
Pedestal Assembly, Rear Discharge Machine



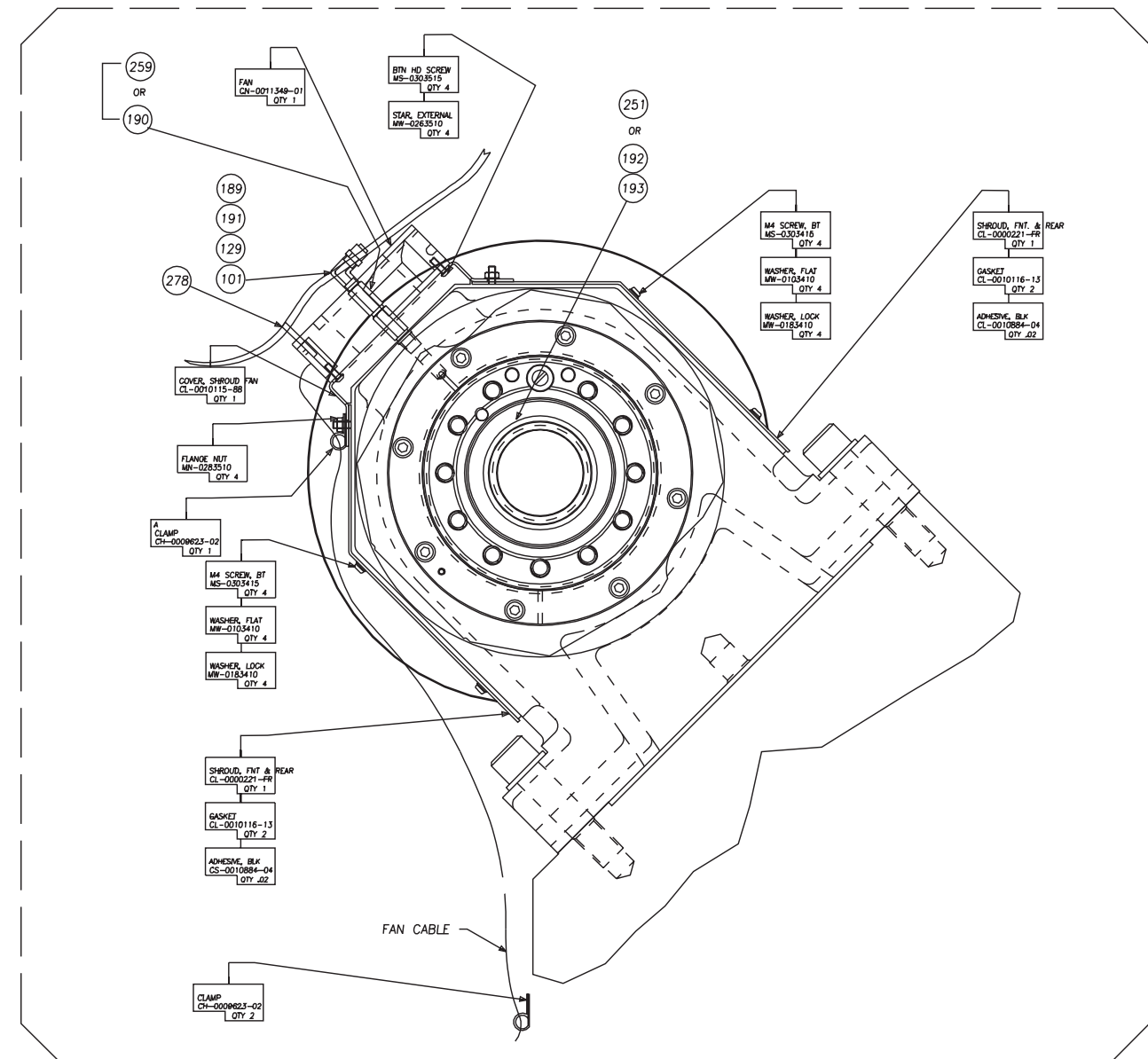
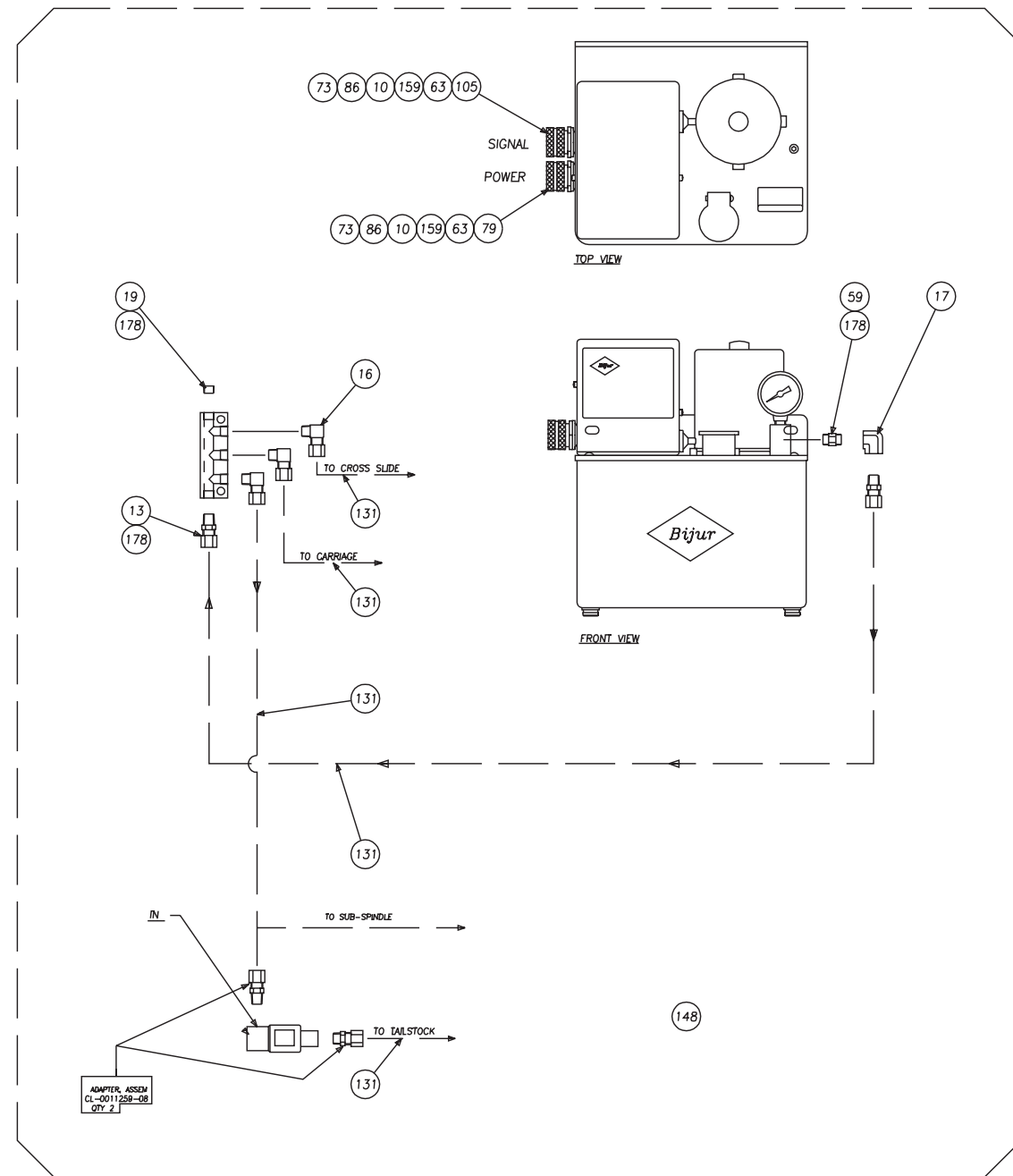
NAME
PEDESTAL ASSEMBLY

PART NUMBER
CL 0000130RD

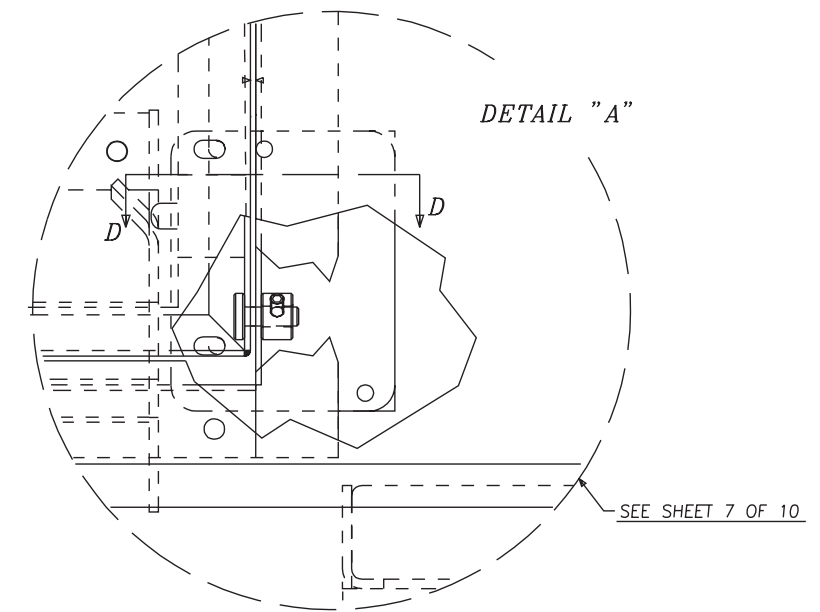
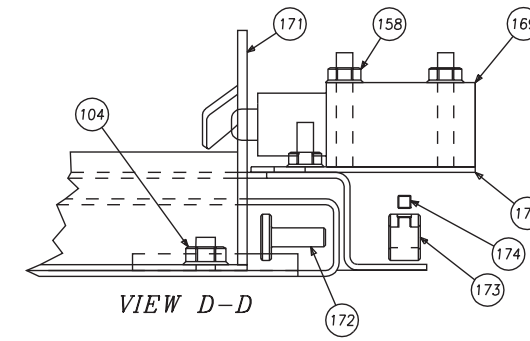
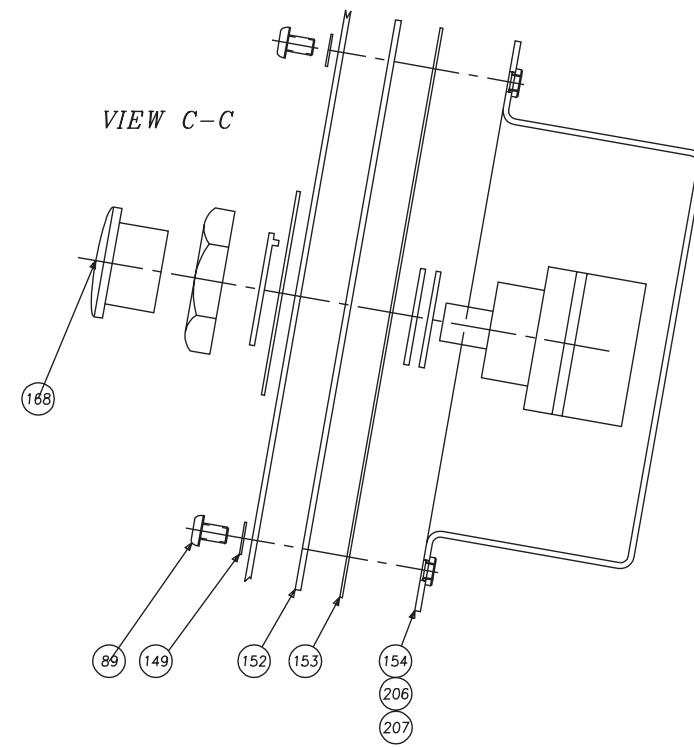
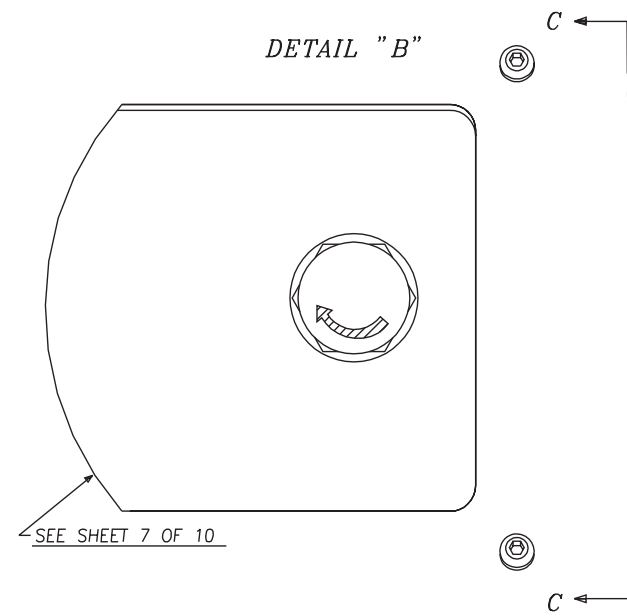
SHEET
6 of 10



Pedestal Assembly, Rear Discharge Machine



NAME: PEDESTAL ASSEMBLY
 PART NUMBER: CL 0000130RD
 SHEET: 8 of 10



NAME PEDESTAL ASSEMBLY PART NUMBER CL 0000130RD SHEET 9 of 10

Pedestal Assembly, Rear Discharge Machine

139	CL-0010190	1	STANDOFF, COLLET CLOSER
138	CLA-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	2	FOOT-ADJUSTMENT, BASE
131	HG-0007007-02	56	TUBING (1/4"OD x 0.62 WAL
130	CT-0007709-01	1	STREET ELBOW
129	HG-0007702-01	1	ELBOW, PRESLOCK
126	MS-0303619	2	M6 SCREW, BHSS x 25mm
125	CL-0010234-03	1	MANIFOLD, JUNCTION 5-WAY
122	CL-0010116-15	1	GASKET, HEADWALL (LOWER)
121	GE-0010884	0	ADHESIVE/SEALANT
120	CL-0002990-31	1	LABYRINTH EXT, LOWER
118	CLA-0010824	1	BRACKET, LUBE
117	CS-0010994	0	GREASE
114	CLC-0000234-01	1	LUBRICATOR
112	CL-0010116-32	1	GASKET, HEADWALL (TOP)
110	CN-0011198-01	6	SEAL, OIL
109	CL-0010115-56	1	COVER, SKIRT ACCESS
108	CL-0009873-01	1	DOWEL, PULL OUT
107	CS-0010565	1	END PLATE & SEAL ASSY
106	MS-0105031	6	M20 SCREW, SHCS x 90mm
105	DB-0009207-9V	1	GROMMET
104	MN-0283610	29	M6 NUT, FLANGE
103	HG-0007007	13	HOSE, 5/16" OD
101	LT-0010884-S	0	SEALANT, PIPE
100	CLB-0001990-41	1	PLATE, MOUNTING
99	MS-0103517	8	M5 SCREW, SHCS x 16mm
98	MW-0103510	11	M5 WASHER, FLAT
97	MW-0193510	9	M5 WASHER, LOCK
95	CLA-0010779-A	1	REGULATOR-FILTER ASSEMBLY
93	CL-0011063-01	1	BARRIER, Z-AXIS MOTOR
92	5-0001914	4	PLUG, PIPE 1/4"-18
91	CL-0002990-03	1	RETAINER, HYDRAULIC HOSE
90	MS-0103516	1	M5 SCREW, SHCS x 12mm
89	MS-0303515	12	M5 SCREW, BHSS x 10mm
88	CL-0010116-23	1	GASKET
87	CL-0000221-HW	1	HEADWALL ASSEMBLY
86	AH-0011508	5	LOCKING NUT
85	CL-0010445-A1	1	FRAME WELD ASSEMBLY
84	MS-0154422	4	M14 SCREW, HHCS x 40mm
83	CL-0010115-33RD	1	COVER, HYDRAULIC ASSEMBLY
82	MS-0104021	4	M10 SCREW, SHCS x 35mm
80	MN-0145010	4	M20 NUT, HEX (LOW 7mm)
79	DB-0009207-9U	1	GROMMET (LARGE)
78	CL-0009455-02	2	FOOT-ADJUSTMENT, BASE
77	MS-0104227	9	M12 SCREW, SHCS x 65mm
76	CL-0011063-RD	1	BARRIER, HYDRAULIC
75	CS-0001799	4	SPACER, BEARING
74	MS-0104020	6	M10 SCREW, SHCS x 30mm
73	50-0010226	4	WASHER, SEAL
72	MW-0193810	9	M8 WASHER, LOCK
71	MW-0103810	9	M8 WASHER, FLAT
70	MN-0153810	2	M8 NUT, FLANGE
69	CL-0001990-91	1	BRACKET, FORKLIFT REAR
65	AD-0011338-04	1	ELBOW, 90°
ITEM	PART NUMBER	QTY	DESCRIPTION

63	DB-0009207-9A	4	BODY
62	MS-0554218	1	M12 SCREW, SSCP x 20mm
61	CH-0009623-02	1	CLAMP
60	CL-0010984	1	BRACKET, HEAD ALIGNMENT
59	KH-0003504-01	1	HEX NIPPLE
58	MS-0104018	8	M10 SCREW, SHCS x 20mm
56	SB-0009623	2	CLAMP
55	MS-0103823	2	M8 SCREW, SHCS x 45mm
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	M14 WASHER, LOCK
48	CS-0003230-06	4	WASHER, TURRET BOLT DOWN
47	MS-0104422	4	M14 SCREW, SHCS x 40mm
46	CS-0003914	1	SCREW, ADJUSTING
45	TL-0006708	1	PIN, DOWEL
44	MS-0103819	2	M8 SCREW, SHCS x 25mm
43	CS-0011320	1	BLOCK, PLATE ADJUSTING
42	MW-0185010	5	M20 WASHER, LOCK
41	MW-0105010-H	11	M20 WASHER, FLAT (HARD.)
40	MS-0165029	5	M20 SCREW, HHCS x 75mm
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, SHCS x 45mm
35	CS-0011320-01	1	BLOCK, ADJUSTER-MOTOR PLA
34	CL-0009532	2	GROMMET
33	MW-0194010	21	M10 WASHER, LOCK
32	MW-0104010	14	M10 WASHER, FLAT
31	MS-0104019	9	M10 SCREW, SHCS x 25mm
30	CT-0002068	7	WASHER, FLAT (SPECIAL)
29	CL-0010848-02	1	STRIP, DRIP
26	CLB-0001990-FL	1	FORKLIFT SLOT
25	MW-0194210	24	M12 WASHER, LOCK
24	CL-0002840-01	24	WASHER, FLAT (HARDENED)
23	MS-0104219	15	M12 SCREW, SHCS x 25mm
22	CL-0000221-02	1	MOUNT, SKIRT
20	MS-0303616	38	M6 SCREW, BHSS x 12mm
19	5-0001467	1	PLUG, 1/8 NPT
18	CT-0011092-07	1	NIPPLE, 1/8NPT
17	PL-0010110	1	ELBOW, 90° FEMALE
16	CL-0011259-09	3	ADAPTER ASSY, 90° ELBOW
14	CN-0010481-01	2	SPACER
13	CL-0011259-08	2	ADAPTER ASSY, STRAIGHT
12	MW-0184010	8	M10 WASHER, LOCK
11	NC-0010884	0	LOCTITE #242
10	DB-0009207-9B	4	NUT, COMPRESSION
9	CL-0010116-19	1	GASKET, HEADWALL (BACK)
8	CLA-0001990-27	1	BRACKET, TRAMP OIL
7	MW-0193610	81	M6 WASHER, LOCK
6	MW-0103610	79	M6 WASHER, FLAT
5	MS-0103616	26	M6 SCREW, SHCS x 12mm
4	MS-0303514	12	M5 SCREW, BHSS x 8mm
2	CLA-0010116-02	1	GASKET, HEADWALL SEAL
1	CLA-0000343	1	FLANGE, HEADWALL SEAL
ITEM	PART NUMBER	QTY	DESCRIPTION

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PEDESTAL ASSEMBLY

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CL 0000130RD

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303	KH-0011555-G	1.75	GUARDS FOR FANS
302	CL-0011850-FG	1	GUARD, HYD FAN HOUSING
301	CL-0004990-89	2	RETAINER, CL VITON SHORT
300	CL-0004990-88	1	RETAINER, CL VITON LONG
299	CL-0004990-92	2	RETAINER, CL REAR VITON
298	CL-0010848-03	2	STRIP, CL-RD BASE DRIP
297	CL-0010848-04	1	STRIP, CL-RD DRIP
296	CL-0010116-81	1	DEFLECTOR, CL-RD SKIRT
295	CL-0006324-FK	1	HYD TANK FILLER RD CL
294	CLB-0010366-09	1	TAG, COLLET CL-TS PRE.
293	MW-0263610	7	M6 WASHER, STAR
292	CS-0010302-07	1	TAG, CAUTION DRAIN FILTER
291	CL-0010366-11	1	TAG, PNEUMATIC SCHEMATIC
290	CL-0010366-10	1	TAG, HYD CONTROL VALVE
288	MS-0155026	2	M20 SCREW, HHFT x 60mm
287	CL-0004990-76	1	BRACKET, REAR HOSE
286	CL-0010215-65	1	COVER, TERMINAL STRIP
285	MW-0183510	4	M5 WASHER, LOCK
284	MW-0183810	2	M8 WASHER, LOCK
283	MS-0103816	2	M8 SCREW, SHCS x 12mm
282	CLA-0004990-74	1	SUPPORT, AIR PANEL
281	OR-0258268	1	O-RING
280	CL-0010116-74	1	GASKET, HEADWALL SEAL
279	CL-0000343-03	1	SEAL, FLANGE HEADWALL
278	LM-0008104	1	TY-WRAP
260	LO-0002576	1	COLLET CLS.INSTALL.CL-64(
259	CL-0011801-01	1	LEE,JET
258	CL-0003177-02	1	PULLEY,SPINDLE MOTOR
257	CL-0003177-12	1	PULLEY,12S MOTOR
256	CL-0010389-02	1	SLEEVE,CLAMPING
255	CL-0010389-01	2	SLEEVE,CLAMPING
254	CL-0003177-01	1	PULLEY,SPINDLE MOTOR
253	CL-0003346	1	BELT, DRIVE STANDARD
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, BHSS x 20mm
207	CH-0009532-1	1	GROMMET
206	TM-0010331 B	2	DOT PLUG
205	WA-0009191	4	WASHER
204	CSB-0001990-30	1	BRACKET, COOLANT MT.
203	MN-0113810	2	M8 NUT, HEX
ITEM	PART NUMBER	QTY	DESCRIPTION

202	MS-0103820	2	M8 SCREW, SHCS x 30mm
200	HG-0010116-30	1	GASKET, AIR BLAST
199	HG-0001990-91	1	PLATE, AIR BLAST
198	MS-0103619	7	M6 SCREW, SHCS x 25mm
197	CL-0009532-02	1	GROMMET
196	CLA-0010115-54	1	COVER,SWITCH PORT
195	MS-0103818	11	M8 SCREW, SHCS x 20mm
194	CL-0010462-02	1	DISC,SPINDLE BRAKE
193	RF-0010994	0	GREASE
192	OR-0006475-V	1	O-RING
191	HG-0008384	1	ADAPTER
190	NC-0011801	1	LEE JET
189	CS-0011801	1	BODY,JET METRIC
187	CLA-0003650-02	1	SWITCH, ROLLER
183	5 -0001893	4	GROMMET
182	UE-0010541	1	BUMPER
181	MS-0103621	2	M6 SCREW, SHCS x 35mm
180	3-0010884-01	0	3M WEATHERSTRIP ADHESIVE
179	MS-0553617	2	M6 SCREW, SSCP x 16mm
178	SB-0010884-S	0	HYDRAULIC SEALANT
177	NC-0010884-01	0	LOCTITE #222
176	CL-0011623	1	GORETUBE
175	CL-0011623-Z	1	GORETUBE
174	MS-0553411	2	M4 SCREW, SHCS x 4mm
173	CL-0009623-04	2	CLAMP, SKIRT HINGE PIN
172	CL-0011939	2	PIN, SKIRT HINGE
171	CL-0002990-57	1	DEFLECTOR, COOLANT SKIRT
170	CL-0002990-70	1	PLATE, SKIRT COVER SWITCH
169	CL-0003650-01	1	SWITCH
168	NT-0009972-01	1	E-STOP SWITCH
167	CL-0009207-01	2	FITTING, CONDUIT 90°
166	CL-0011780	1	SPINDLE FEEDBACK ASSY
165	CLA-0000221-LF	1	SKIRT, LOWER FRONT
164	CS-0010331-03	2	DOT PLUG
163	CL-0010229	1	CONDUIT, LIQUIDTIGHT
162	MS-0103617	31	M6 SCREW, SHCS x 16mm
161	MS-0103817	1	M8 SCREW, SHCS x 16mm
160	CL-0010116-40	1	GASKET, LABYRINTH EXT
159	DB-0009207-W	4	WASHER
158	MN-0283510	24	M5 NUT, FLANGE
157	CL-0002990-40	1	RETAINER, SKIRT ACCESS CO
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	2	GASKET, SKIRT DUCT COVER
150	CL-0010115-35	2	COVER, SKIRT DUCT
149	MW-0263510	12	M5 WASHER, STAR
148	LOA-0002490	1	CS-51 LUBE & FITTING DIAG
147	CN-0010116-62	2	GASKET
146	CL-0000221-SK-01	1	SKIRT ASSEMBLY, COOLANT G
145	CL-0001990-25	1	TANK, TRAMP OIL
144	MS-0303617	5	M6 SCREW, BHSS x 16mm
143	CLB-0001990-LF	1	FRAME, FORKLIFT SLOT ASSY
142	CL-0006418	1	LABRYNTH, EXT. (REAR Z-W
141	MS-0103618	3	M6 SCREW, SH SHLDR x 20mm
140	MS-0496016	1	M5 SCREW, SH SHLDR x 12mm
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME

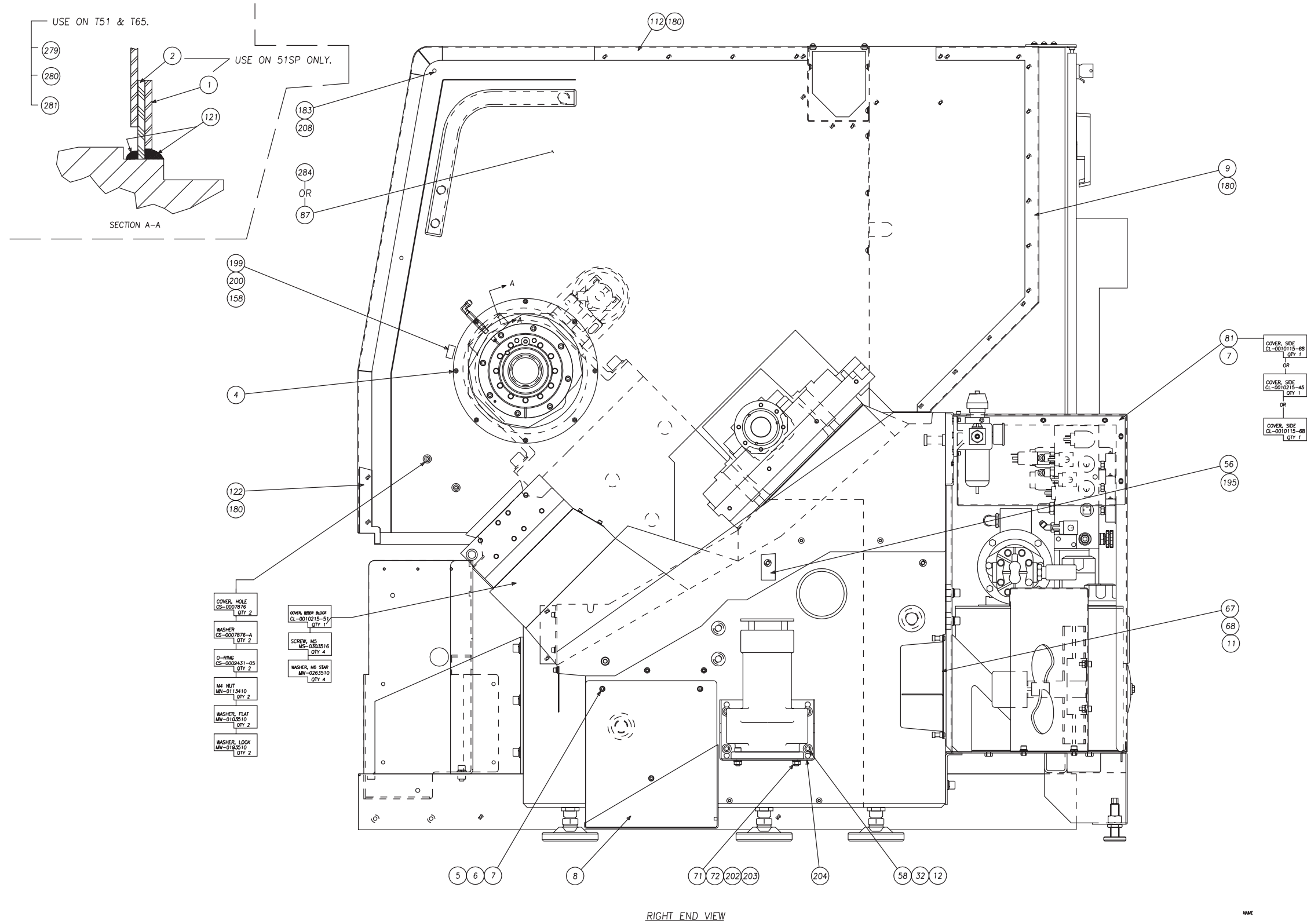
PEDESTAL ASSEMBLY

PART NUMBER

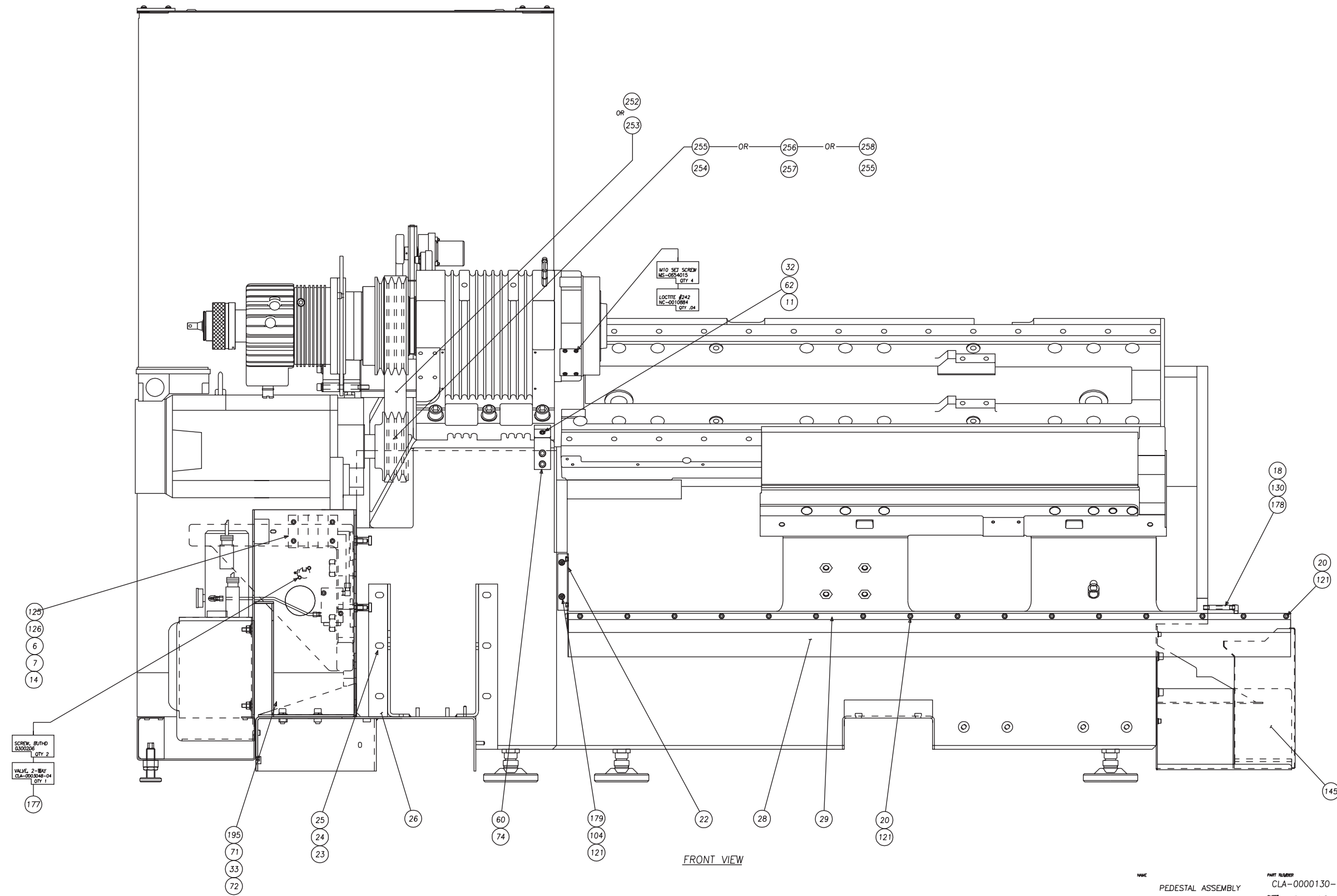
CL 0000130RD

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Pedestal Assembly, Side Discharge Machine

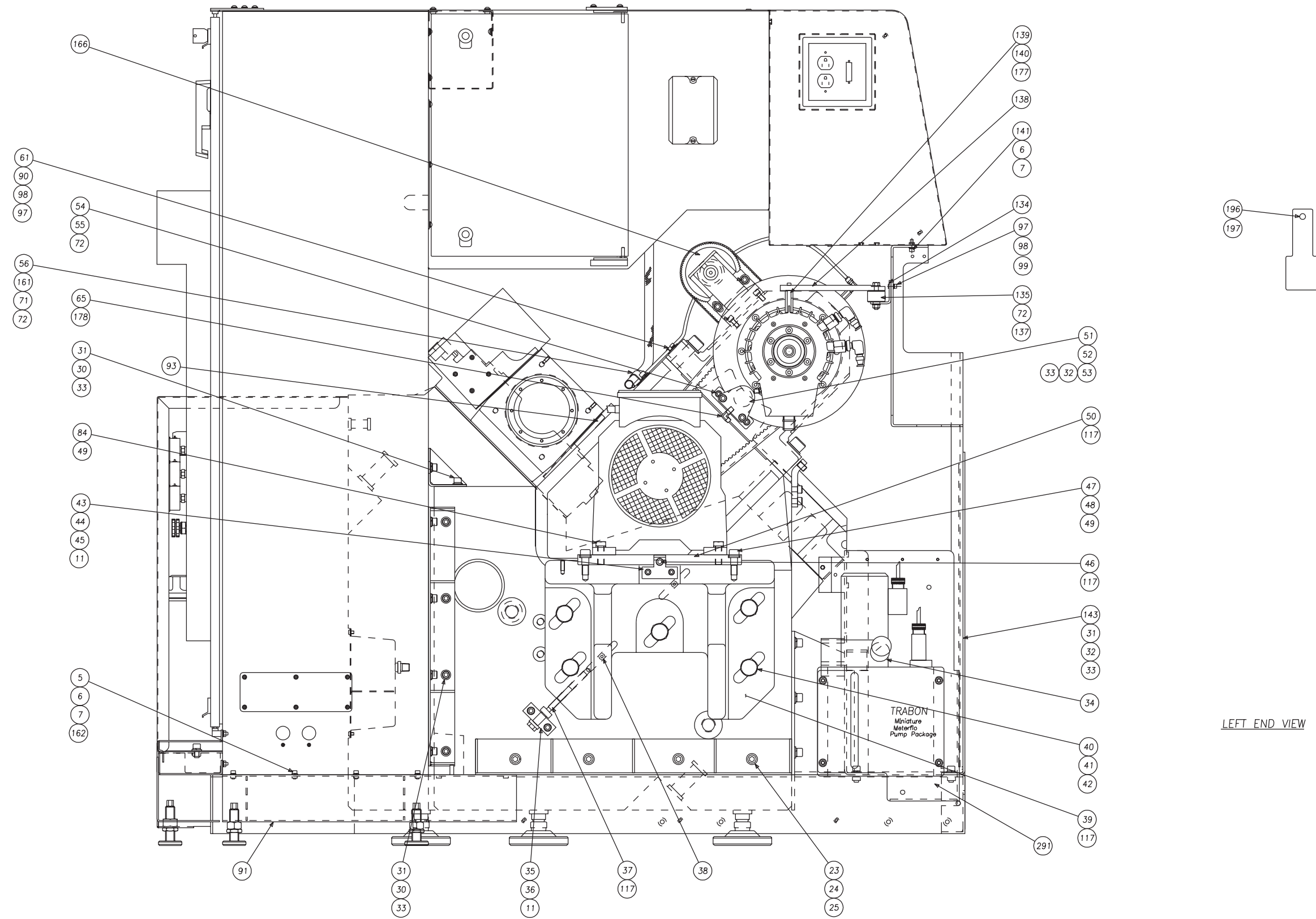


NAME PEDESTAL ASSEMBLY
PART NUMBER CLA-0000130-18
SHEET 1 of 10



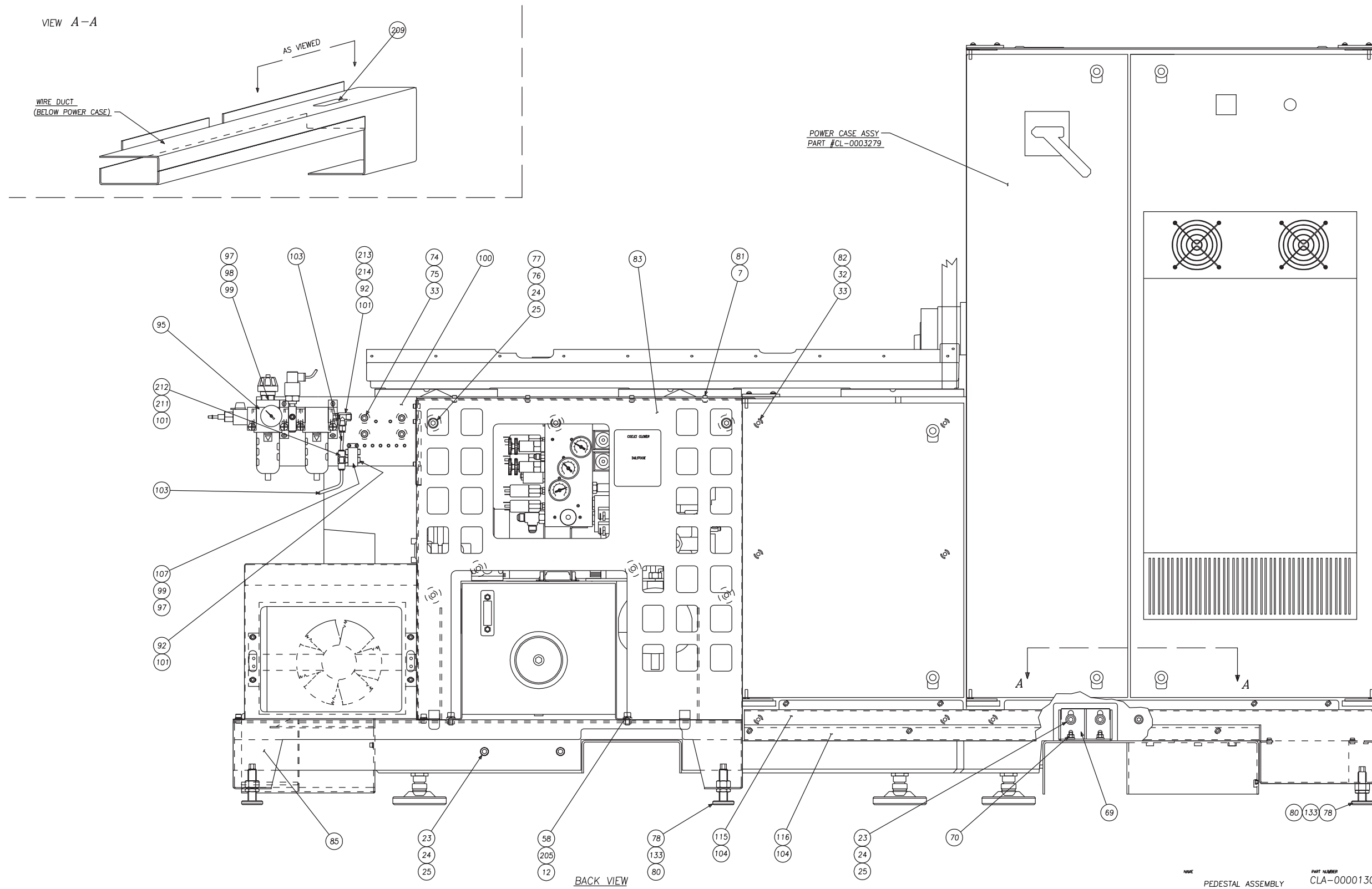
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 SHEET: 2 of 10

Pedestal Assembly, Side Discharge Machine



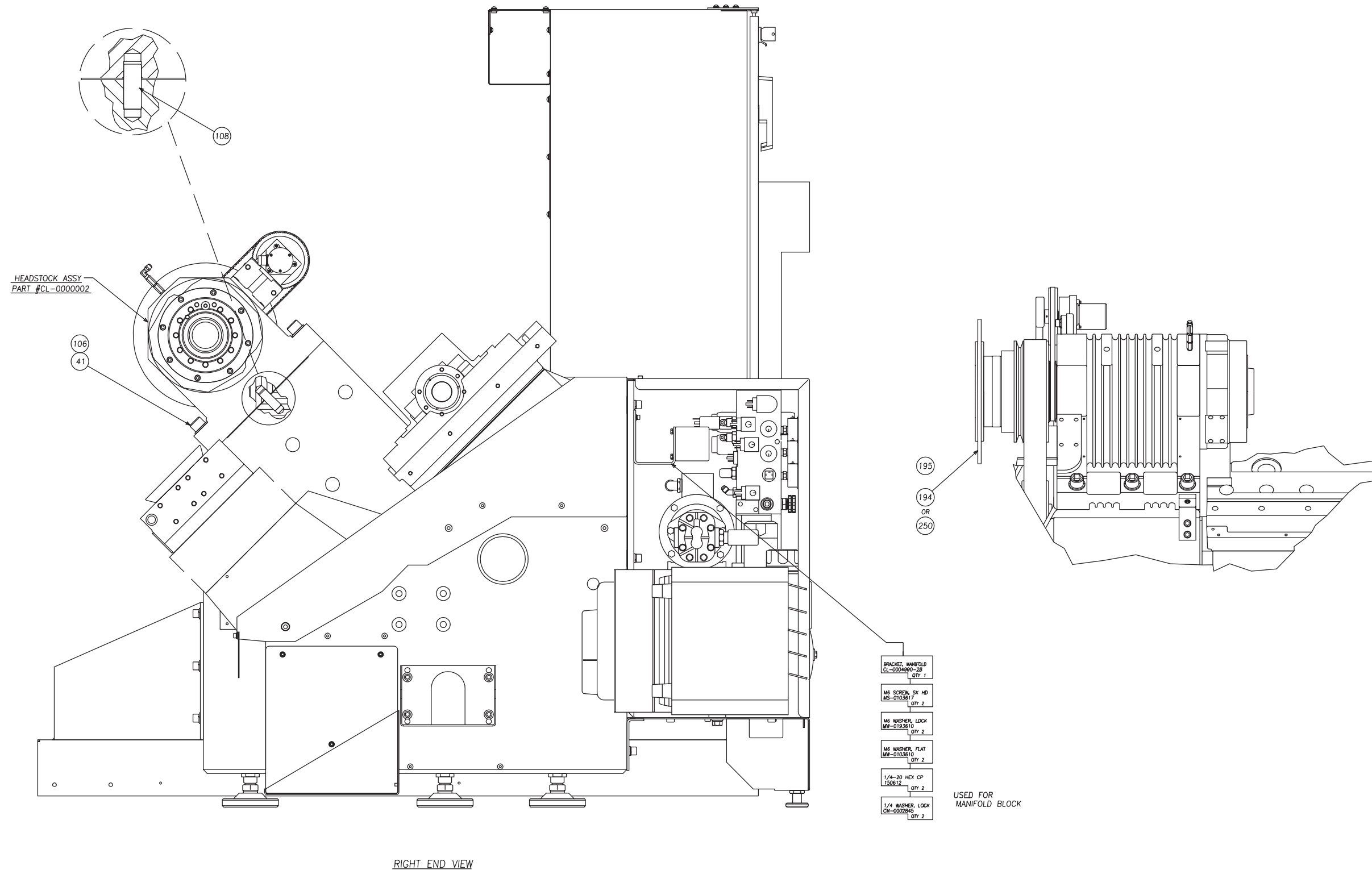
LEFT END VIEW

NAME PEDESTAL ASSEMBLY PART NUMBER CLA-0000130-18 SHEET 3 of 10



NAME PEDESTAL ASSEMBLY PART NUMBER CLA-0000130-18
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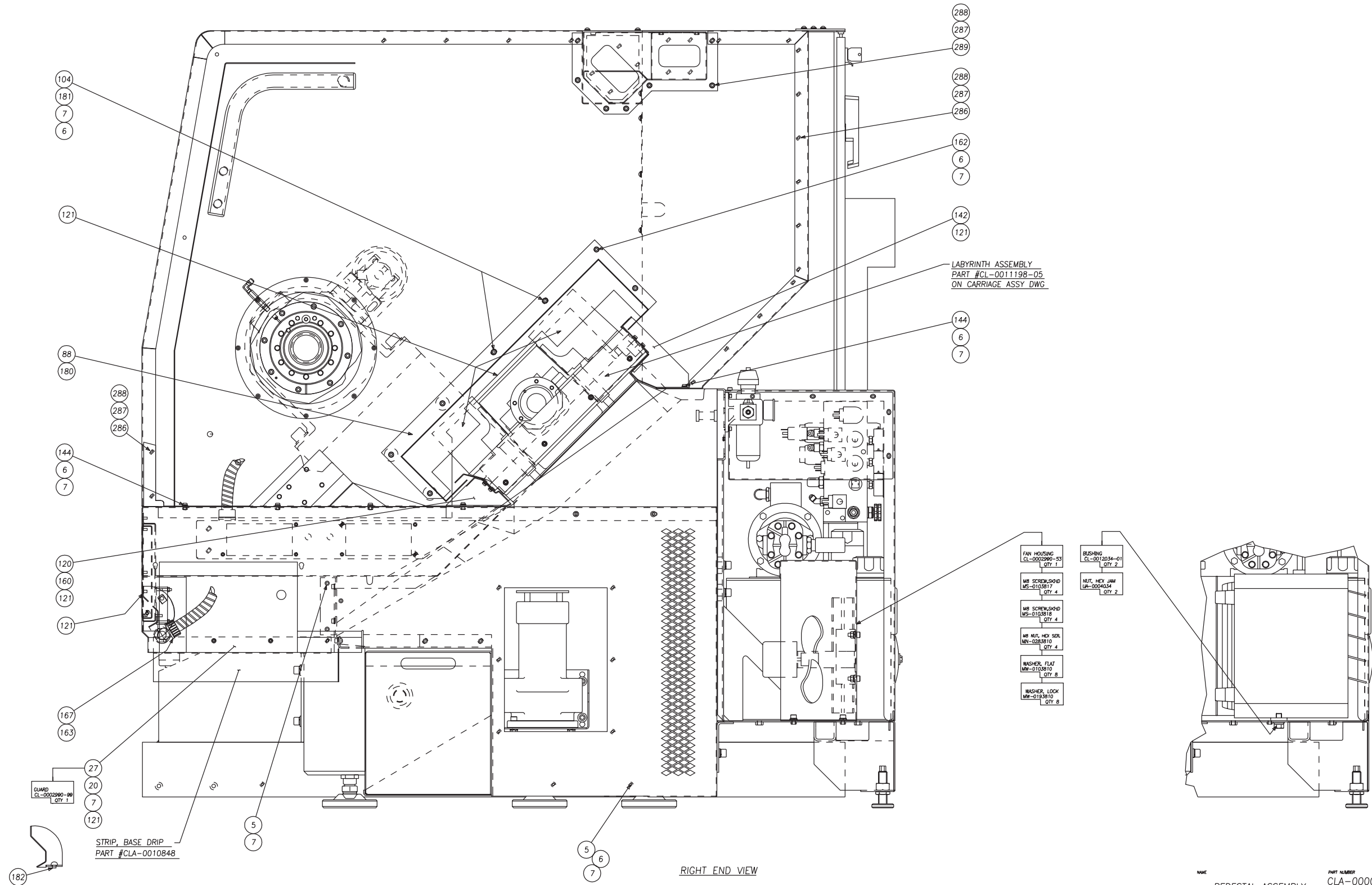
Pedestal Assembly, Side Discharge Machine



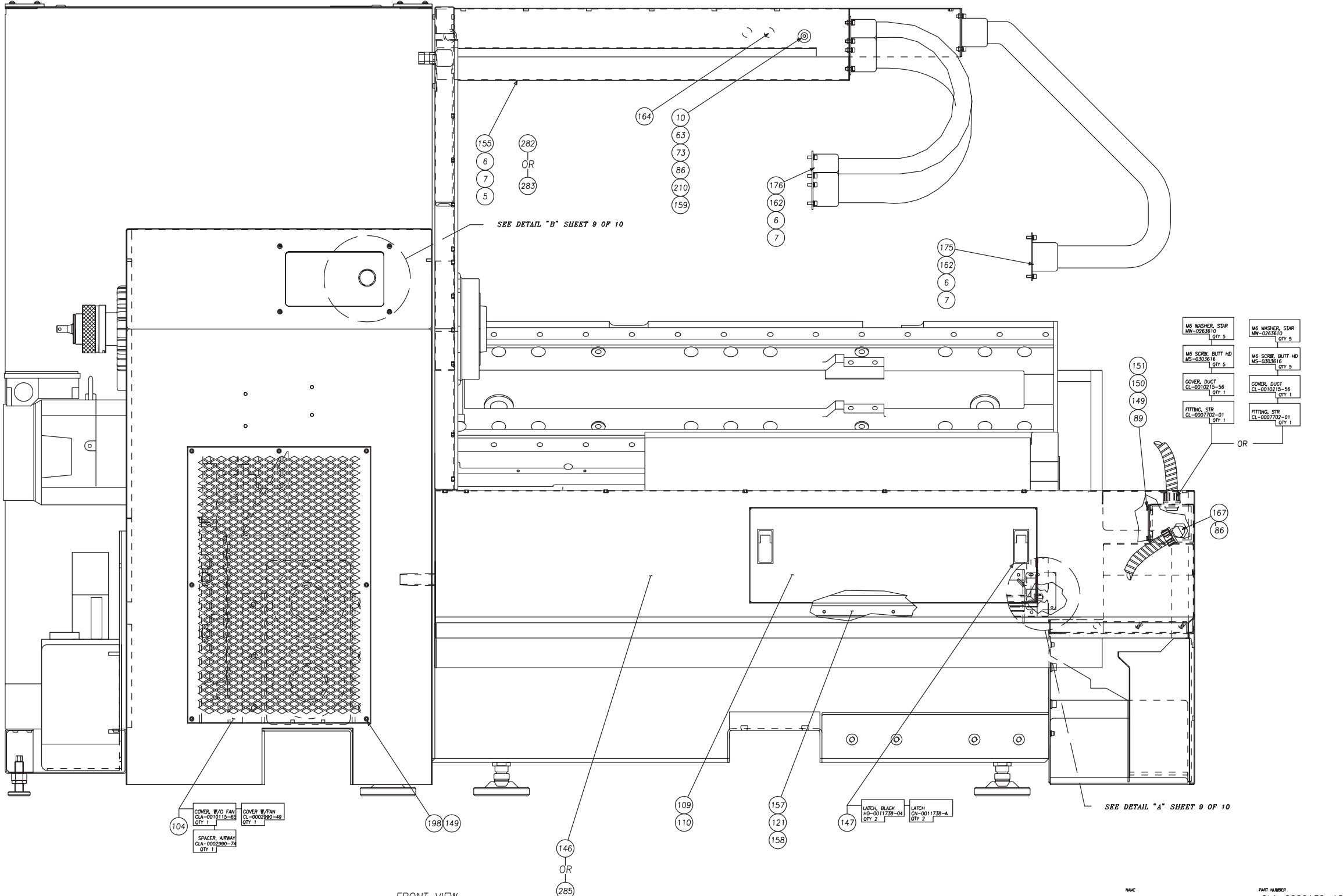
VIEW
PEDESTAL ASSEMBLY

PART NUMBER
CLA-0000130-18

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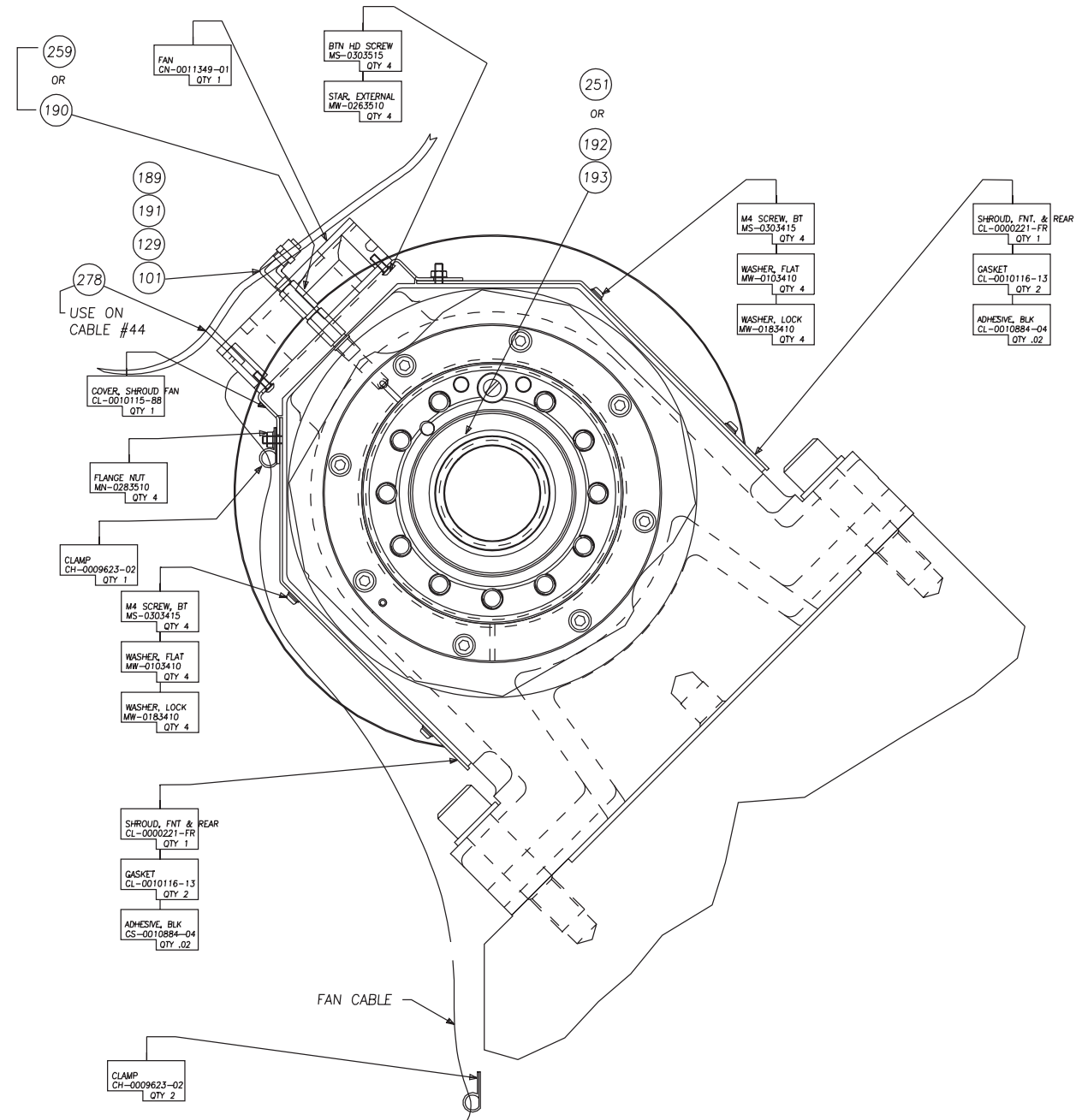
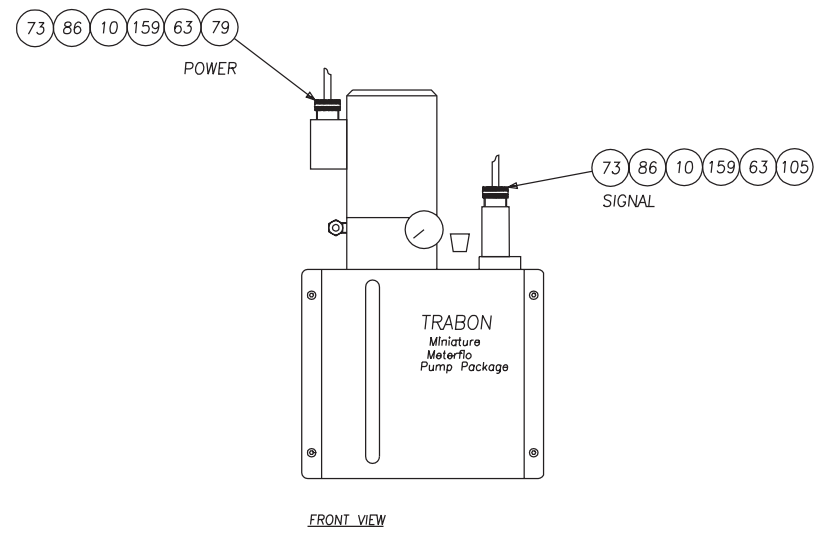


Pedestal Assembly, Side Discharge Machine



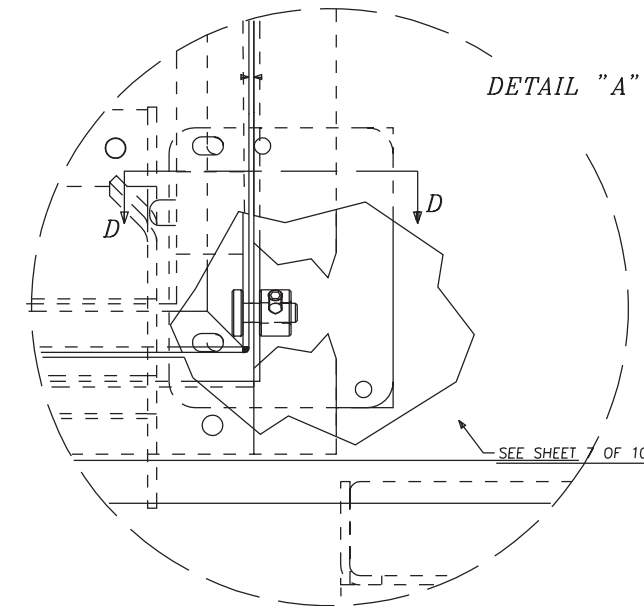
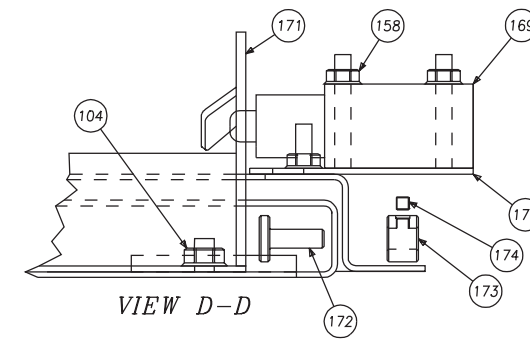
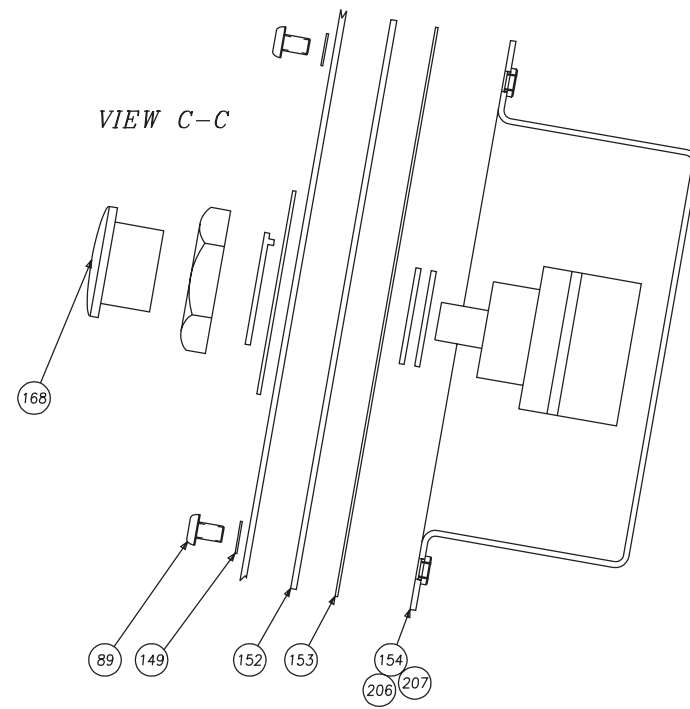
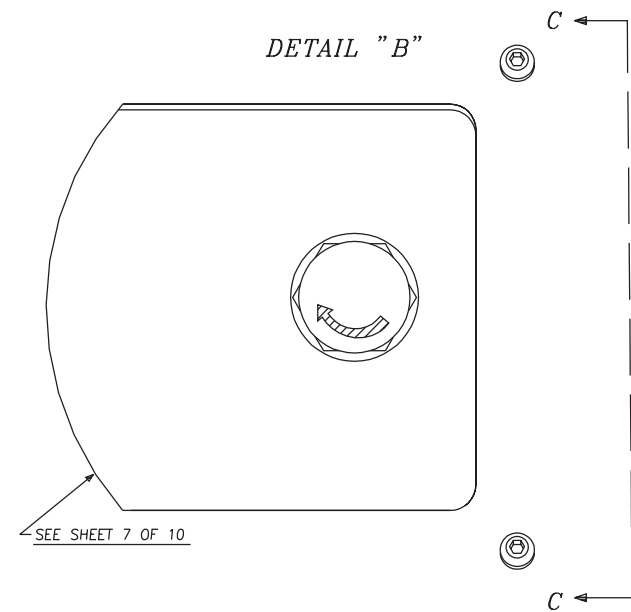
FRONT VIEW

NAME PEDESTAL ASSEMBLY
PART NUMBER CLA-0000130-18
SHEET 7 of 10



NAME PEDESTAL ASSEMBLY PART NUMBER CLA-0000130-18
 SHEET 8 of 10

Pedestal Assembly, Side Discharge Machine



NAME
PEDESTAL ASSEMBLY

PART NUMBER
CLA-0000130-18

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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	.62	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)
110	CN-0011198-01	6	SEAL, OIL
109	CL-0010115-56	1	COVER, SKIRT ACCESS
108	CL-0009873-01	1	DOWEL, PULL OUT
107	CS-0010565	1	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-S	.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
93	CL-0011063-01	1	BARRIER, Z-AXIS MOTOR
92	5-0001914	4	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-0010116-23	1	GASKET
87	CLA-0000221-HW	1	HEADWALL ASSEMBLY
86	AH-0011508	5	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	9	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	50-0010226	4	WASHER, SEAL
72	MW-0193810	9	WASHER, LOCK
71	MW-0103810	7	WASHER, FLAT
70	MN-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-0010115-62	1	COVER, VOLTAGE
65	AD-0011338-04	1	ELBOW, 90°
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-0104018	8	M10 SCREW, SOCKET HD
56	SB-0009623	3	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 (SPECIAL)
29	CL-0010848-02	1	STRIP, DRIP
28	CLA-0010848	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	20	M6 SCREW, BUTTON HD
18	CT-0011092-07	1	NIPPLE, 1/8NPT
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-0001990-27	1	BRACKET, TRAMP OIL
7	MW-0193610	72	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	CLA-0010116-02	1	GASKET, HEADWALL SEAL
1	CLA-0000343	1	FLANGE, HEADWALL SEAL
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
PEDESTAL ASSEMBLY

PART NUMBER
CLA-0000130-18
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Pedestal Assembly, Side Discharge Machine

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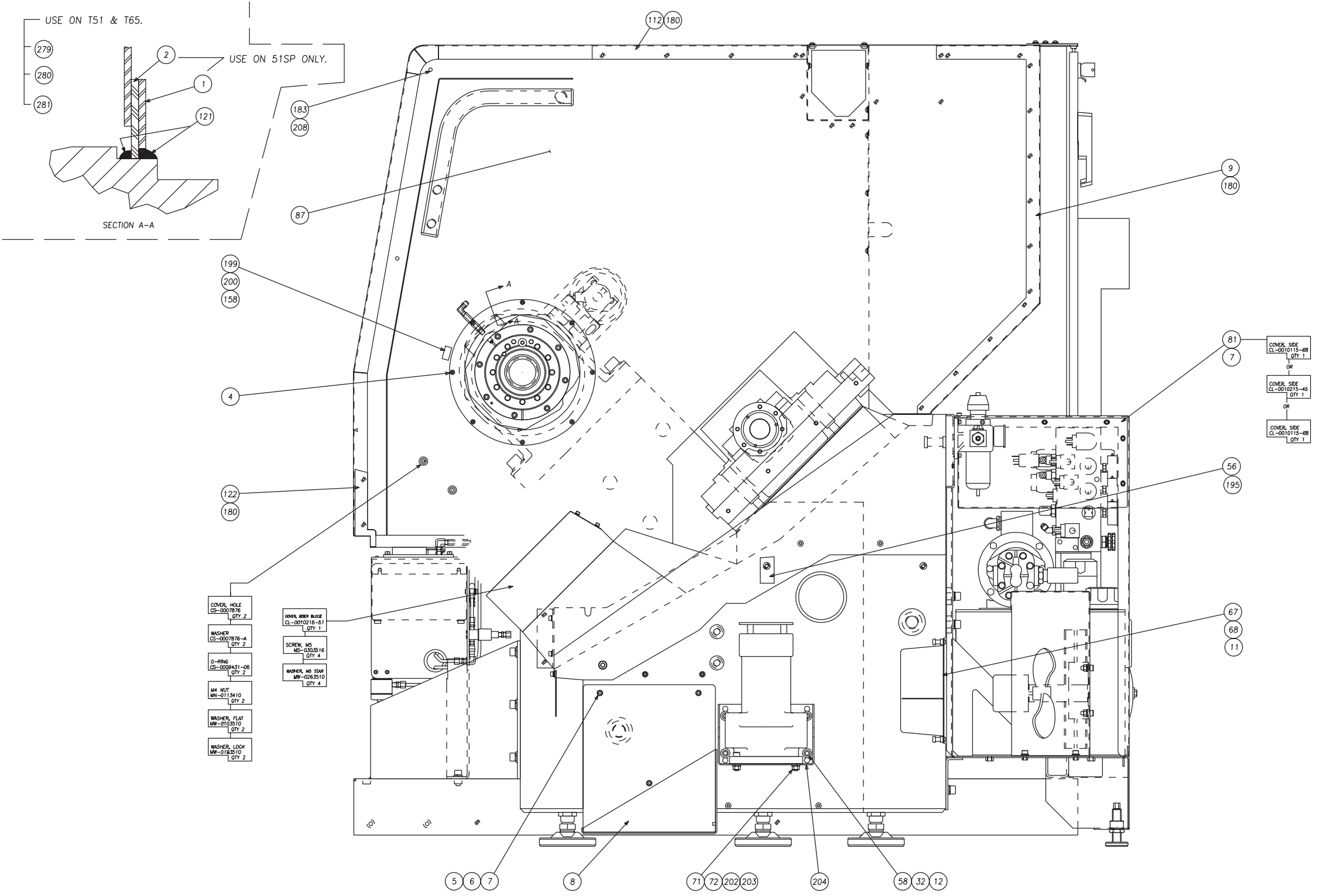
(187) (260) (290) (292)

292	CL 001021565	1	COVER, TERMINAL STRIP
291	SG-0002990-32-T1	1	BRACKET, LUBE TANK
290	LO-0002490	1	LAYOUT
289	MS-0303617-SS	7	SCREW, M6-1.0x12mmLg SS
288	MW-0103610-SS	25	WASHER, M6 SS
287	MW-0183610-SS	25	LOCKWASHER, M6 SS
286	MS-0303617-SS	18	SCREW, M6-1.0x16mmLg SS
285	CL-0000221-EMSK	1	SKIRT ASSEMBLY, COOLANT G
284	CL-0000221-EMHW	1	HEADWALL ASSEMBLY
283	CL-0000221-EMWW	1	WIREWAY ASSEMBLY
282	CLA-0000221-WWSS	1	WIREWAY ASSEMBLY
281	OR-0258268	1	O-RING
280	CL-0010116-74	1	GASKET, HEADWALL SEAL
279	CL-0000343-03	1	SEAL, FLANGE HEADWALL
278	LM-0008104	1	TY-WRAP
260	LO-0002576	1	COLLET CLS.INSTALL.CL-64(
259	CL-0011801-01	1	LEE,JET
258	CL-0003177-02	1	PULLEY,SPINDLE MOTOR
257	CL-0003177-12	1	PULLEY,12S MOTOR
256	CL-0010389-02	1	SLEEVE,CLAMPING
255	CL-0010389-01	2	SLEEVE,CLAMPING
254	CL-0003177-01	1	PULLEY,SPINDLE MOTOR
253	CL-0003346	1	BELT, DRIVE STANDARD
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
ITEM	PART NUMBER	QTY	DESCRIPTION

205	WA-0009191	4	WASHER
204	CSB-0001990-30	1	BRACKET, COOLANT MT.
203	MN-0113810	2	NUT,HEX, M8 X 1.25
202	MS-0103820	2	SCREW, SOC. HD. CAP M8 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	11	M8 SCREW,SOC. HD. CAP X 2
194	CL-0010462-02	1	DISC,SPINDLE BRAKE
193	RF-0010994	.01	GREASE
192	OR-0006475-V	1	O-RING
191	HG-0008384	1	ADAPTER
190	NC-0011801	1	LEE JET
189	CS-0011801	1	BODY,JET METRIC
187	CLA -0003650-02	1	SWITCH, ROLLER
183	5 -0001893	4	GROMMET
182	UE-0010541	1	BUMPER
181	MS-0103621	2	M6 SCREW, SOCKET HD
180	J-0010884-01	.36	3M WEATHERSTRIP ADHESIVE
179	MS-0553617	2	M6 SCREW, SOCKET-SET
178	SB-0010884-S	.03	HYDRAULIC SEALANT
177	NC-0010884-01	.03	LOCTITE #222
176	CL-0011623	1	GORETUBE
175	CL-0011623-Z	1	GORETUBE
174	MS-0553411	2	M4 SCREW, SOCKET SET
173	CL-0009623-04	2	CLAMP, SKIRT HINGE PIN
172	CL-0011939	2	PIN, SKIRT HINGE
171	CL-0002990-57	1	DEFLECTOR, COOLANT SKIRT
170	CL-0002990-70	1	PLATE, SKIRT COVER SWITCH
169	CL-0003650-01	1	SWITCH
168	NT-0009972-01	1	E-STOP SWITCH
167	CL-0009207-01	2	FITTING, CONDUIT 90°
166	CL-0011780	1	SPINDLE FEEDBACK ASSY
164	CS-0010331-03	2	DOT PLUG
163	CL-0010229	1.5	CONDUIT, LIQUIDTIGHT
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	24	M5 NUT, FLANGE
157	CL-0002990-40	1	RETAINER, SKIRT ACCESS CO
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	2	GASKET, SKIRT DUCT COVER
150	CL-0010115-35	2	COVER, SKIRT DUCT
149	MW-0263510	19	WASHER, TOOTHED LOCK M5
147	CN-0010116-62	2	GASKET
146	CLB-0000221-SK	1	SKIRT ASSEMBLY, COOLANT G
145	CL-0001990-25	1	TANK, TRAMP OIL
144	MS-0303617	5	M6 SCREW, BUTTON HD
143	CLB-0001990-LF	1	FRAME, FORKLIFT SLOT ASSY
142	CL-0006418	1	LABRYINTH, EXT. (REAR Z-W
141	MS-0103618	3	M6 SCREW, SOCKET HD
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
PEDESTAL ASSEMBLY

PART NUMBER
CLA-0000130-18
SHEET 10 of 10

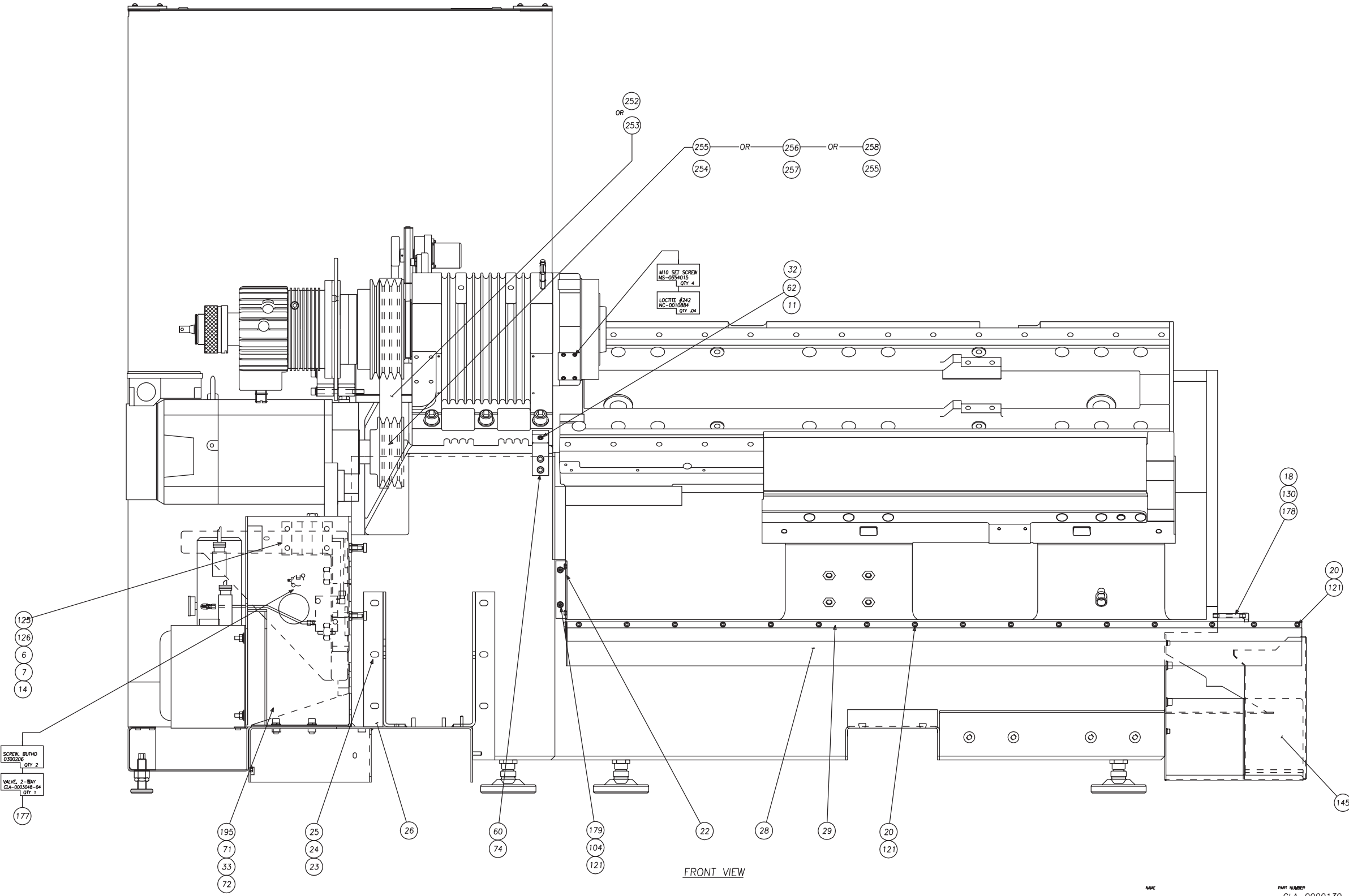


NAME
PEDESTAL ASSEMBLY

PART NUMBER
CLA-0000130-RT

SHEET
1 of 9

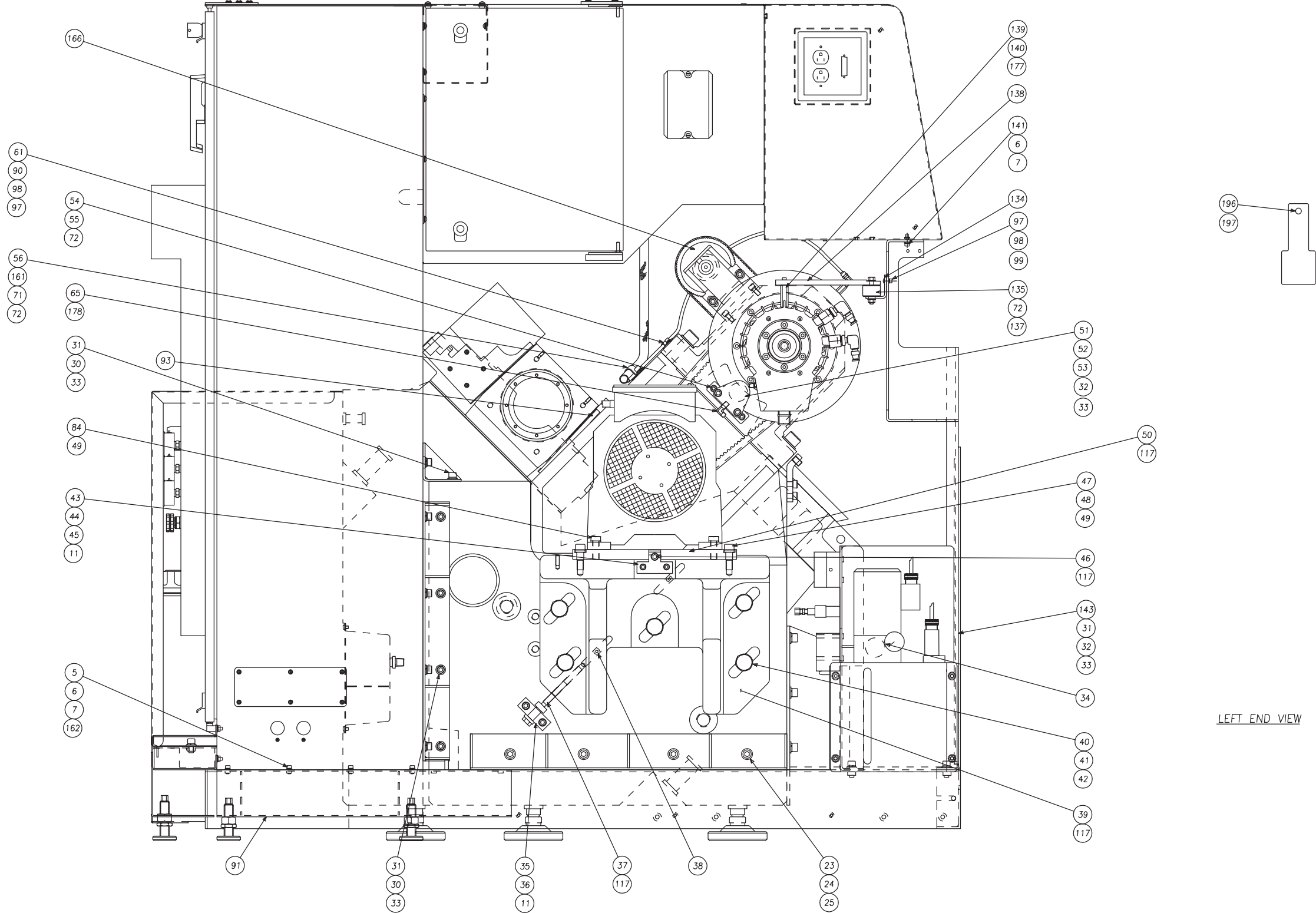
Pedestal Assembly, Side Discharge Machine with End-Working Turret



FRONT VIEW

NAME: PEDESTAL ASSEMBLY
 PART NUMBER: CLA-0000130-RT
 SHEET: 2 of 9

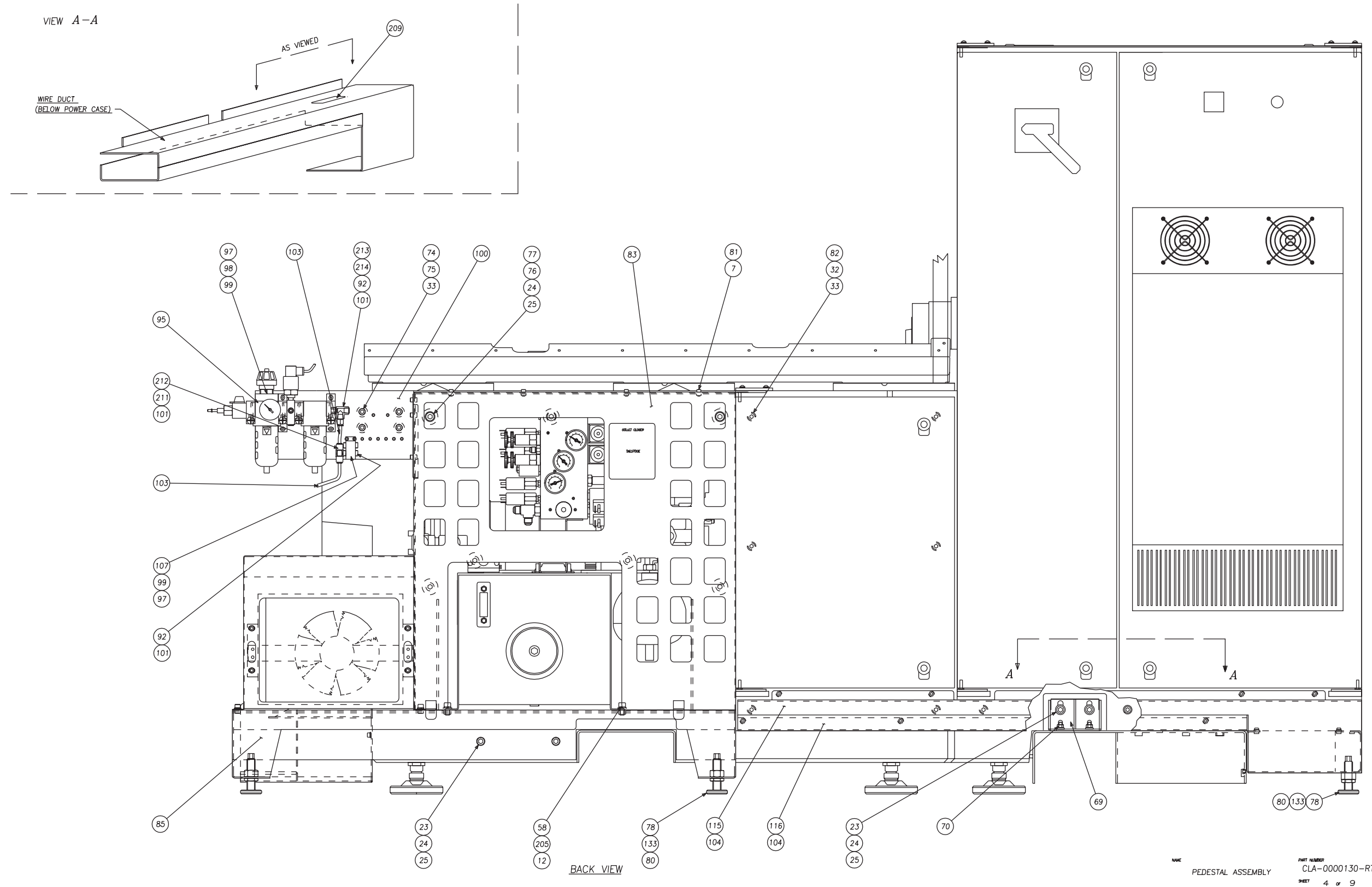
Pedestal Assembly, Side Discharge Machine with End-Working Turret

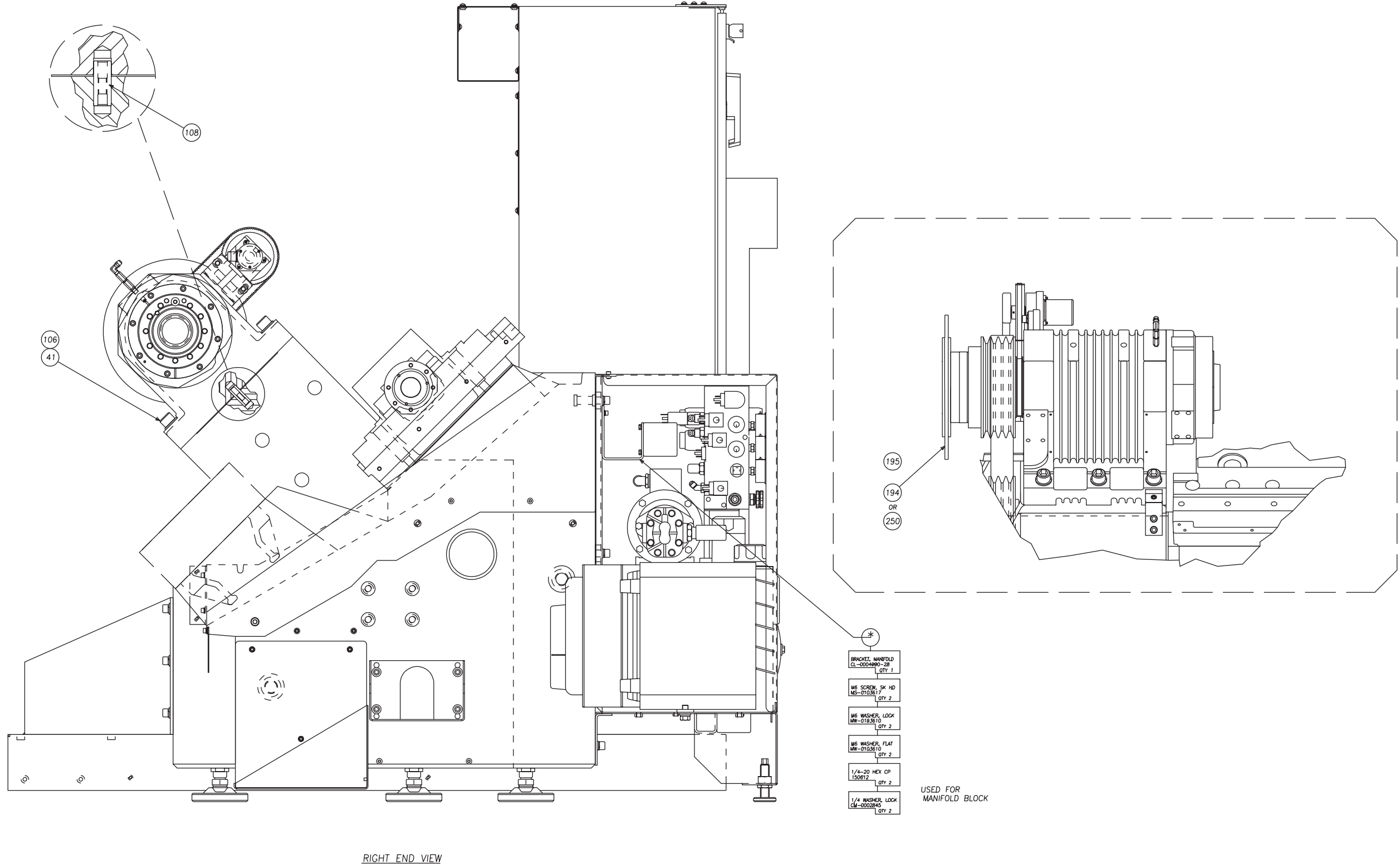


LEFT END VIEW

NAME PEDESTAL ASSEMBLY PART NUMBER CLA-0000130-RT SHEET 3 of 9

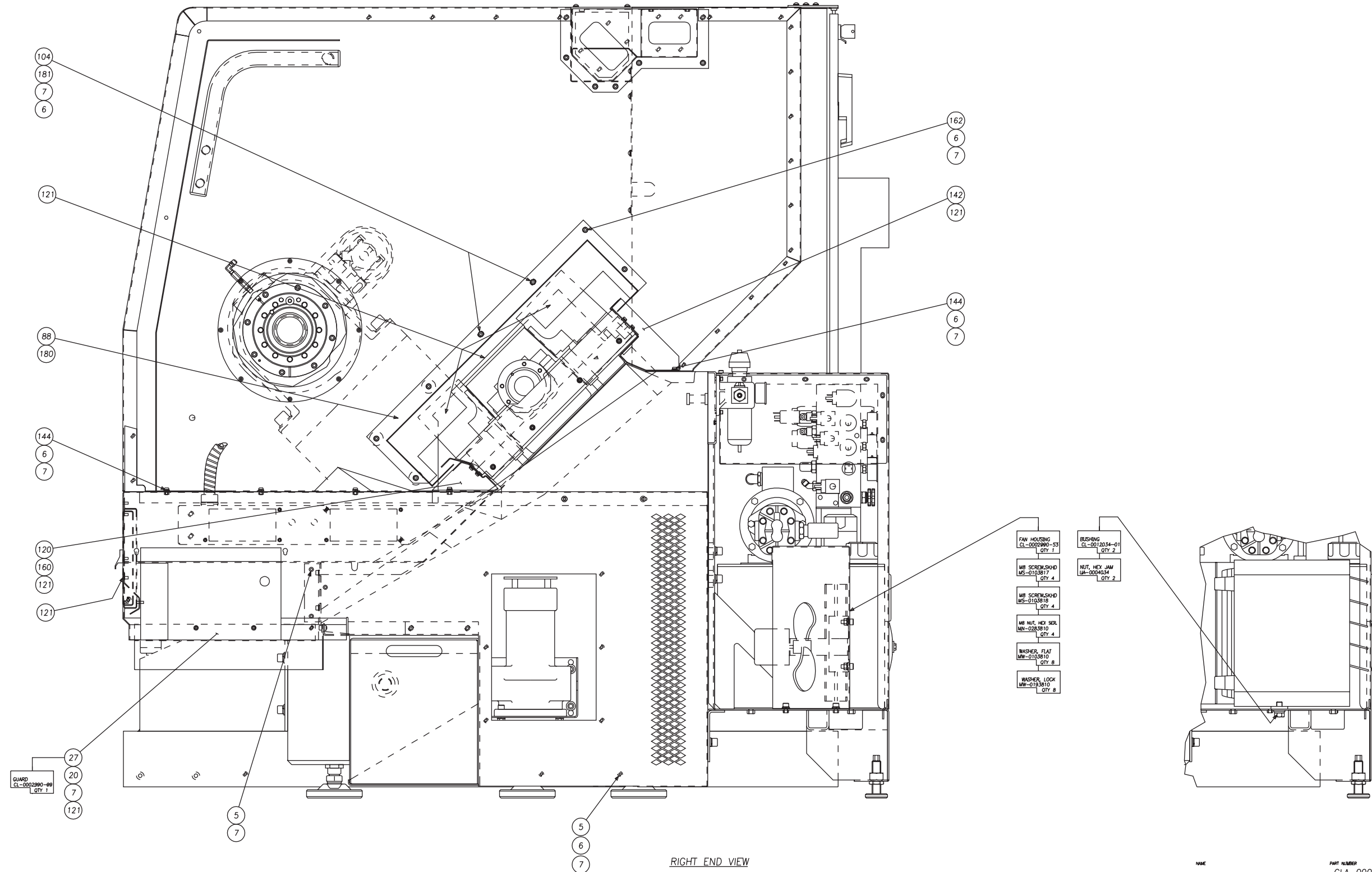
Pedestal Assembly, Side Discharge Machine with End-Working Turret





NAME: PEDESTAL ASSEMBLY
PART NUMBER: CLA-0000130-RT
SHEET 5 of 9

Pedestal Assembly, Side Discharge Machine with End-Working Turret

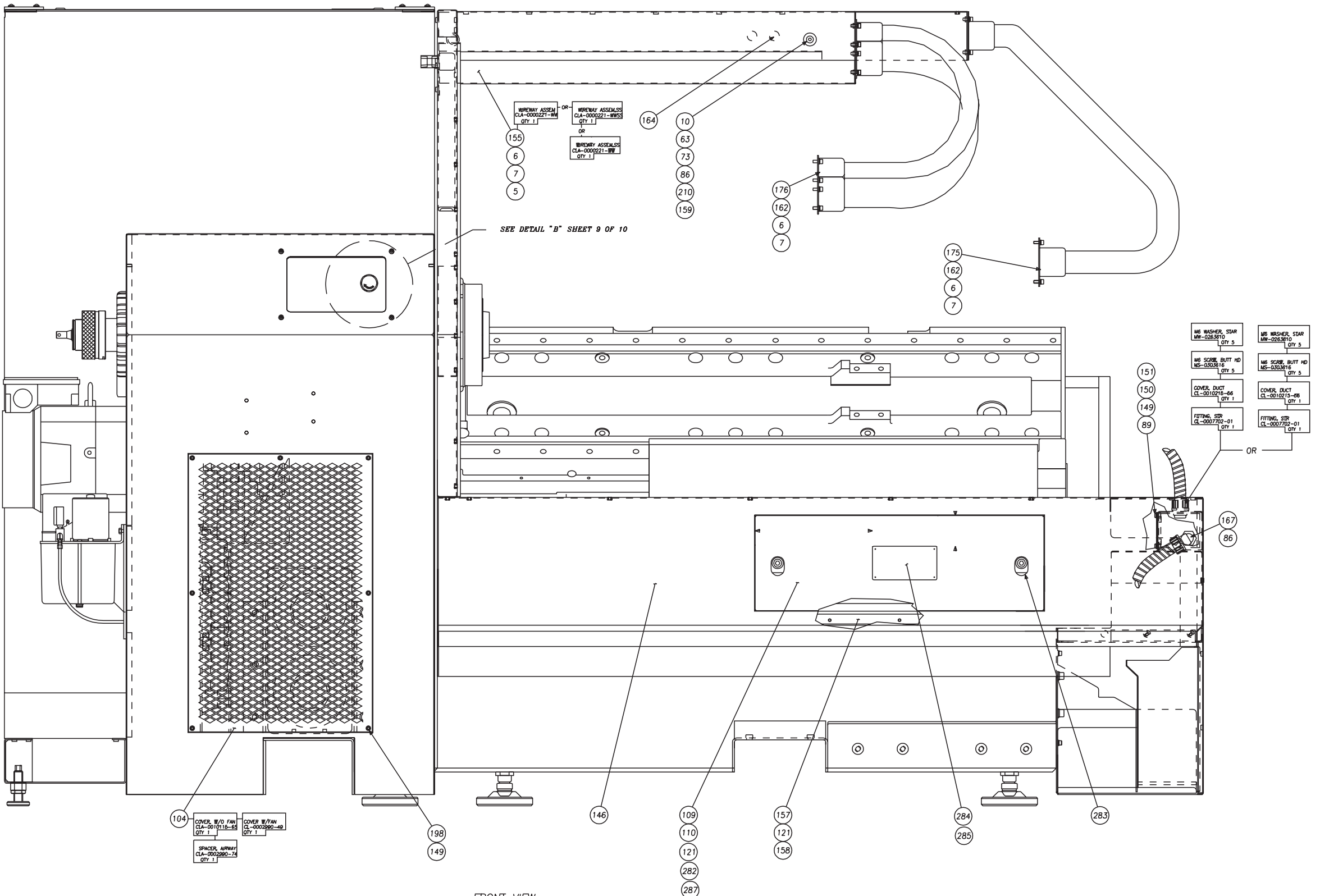


RIGHT END VIEW

NAME
PEDESTAL ASSEMBLY

PART NUMBER
CLA-0000130-RT

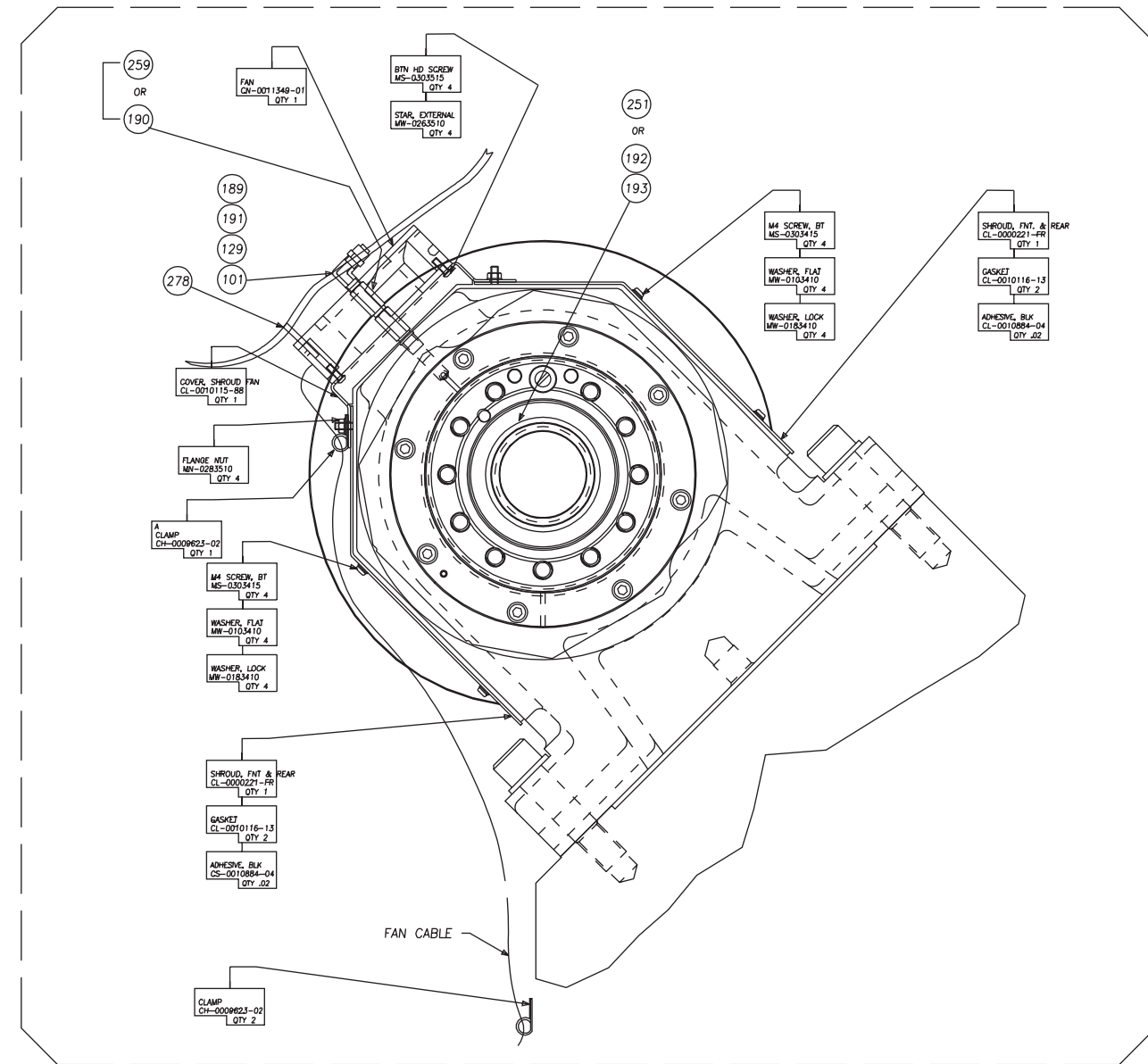
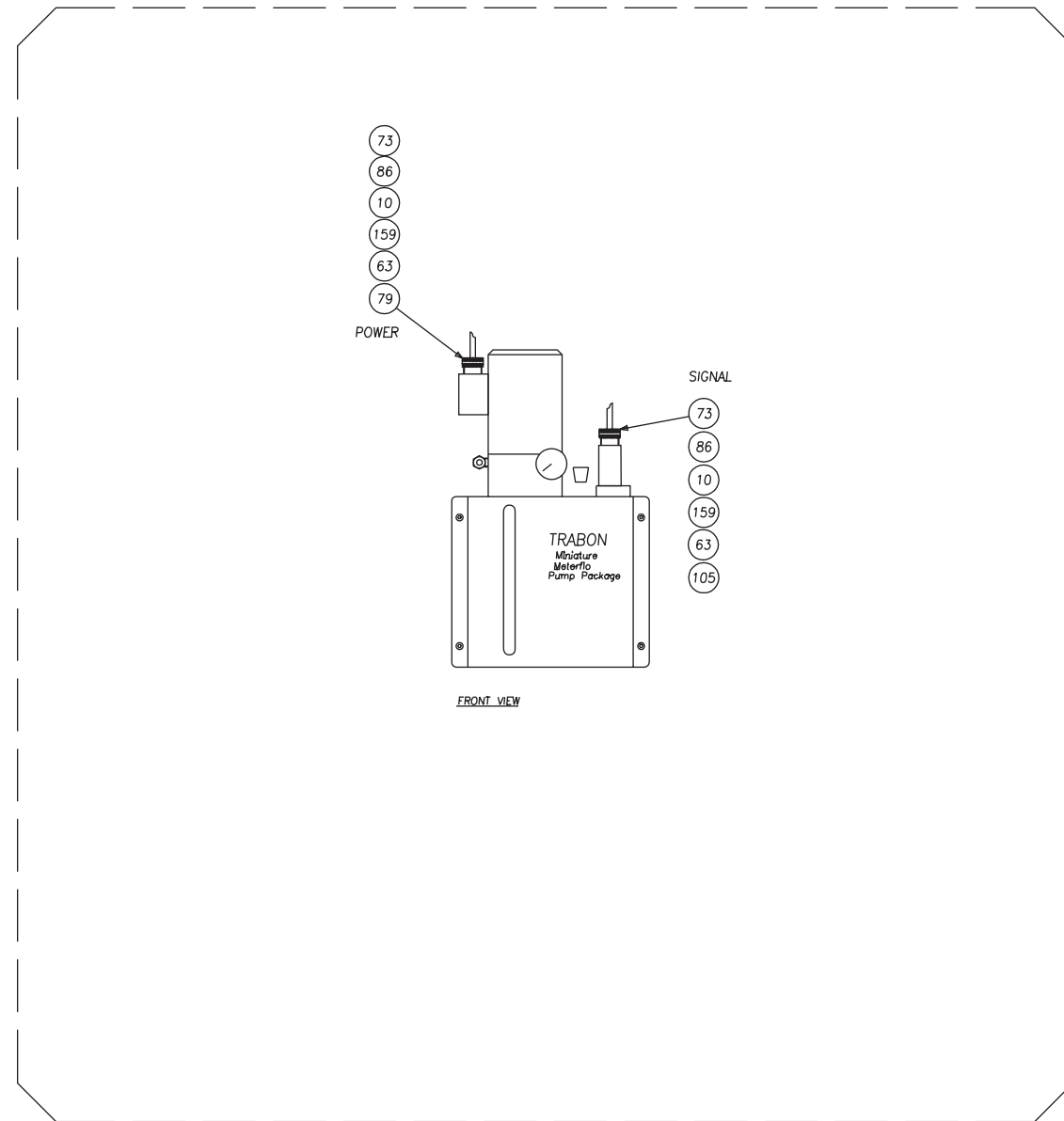
SHEET
6 of 9



FRONT VIEW

NAME PEDESTAL ASSEMBLY PART NUMBER CLA-0000130-RT SHEET 7 of 9

Pedestal Assembly, Side Discharge Machine with End-Working Turret



NAME PEDESTAL ASSEMBLY PART NUMBER CLA-0000130-RT
SHEET 8 of 9

Pedestal Assembly, Side Discharge Machine with End-Working Turret

140	MS-0496016	1	M5 SCREW, SOC HD SHOULDER
139	CL-0010190	1	STANDOFF, COLLET CLOSER
138	CLA-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	0	ADHESIVE/SEALANT
120	CL-0002990-31	1	LABYRINTH EXT, LOWER
117	CS-0010994	0	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)
110	CL-0010116-78	1	GASKET, SKIRT COVER
109	CL-0010215-76	1	COVER, SKIRT
108	CL-0009873-01	1	DOWEL, PULL OUT
107	CS-0010565	1	END PLATE & SEAL ASSY
106	MS-0105031	6	M20 SCREW, SOCKET HD
105	DB-0009207-9V	1	GROMMET
104	MN-0283610	20	M6 NUT, FLANGE
103	HG-0007007	12	HOSE, 5/16" OD
101	LT-0010884-S	0	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	CLB-0010779-A	1	REGULATOR-FILTER ASSEMBLY
93	CL-0011063-01	1	BARRIER, Z-AXIS MOTOR
92	5-0001914	4	PLUG, PIPE 1/4"-18
91	CL-0002990-03	1	RETAINER, HYDRAULIC HOSE
90	MS-0103516	1	M5 SCREW, SOCKET HD
89	MS-0303515	8	M5 SCREW, BUTTON HD
88	CL-0010116-23	1	GASKET
87	CL-0000221-HW	1	HEADWALL ASSEMBLY
86	AH-0011508	5	LOCKING NUT
85	CLB-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	9	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	50-0010226	4	WASHER, SEAL
72	MW-0193810	9	WASHER, LOCK
71	MW-0103810	7	WASHER, FLAT
70	MN-0153810	2	M8 NUT, FLANGE
69	CL-0001990-91	1	BRACKET, FORKLIFT REAR
ITEM	PART NUMBER	QTY	DESCRIPTION

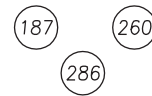
68	MS-0303615	12	M6 SCREW, BUTTON HD
67	CL-0010115-62	1	COVER, VOLTAGE
65	AD-0011338-04	1	ELBOW, 90°
63	DB-0009207-9A	4	BODY
62	MS-0554218	1	M12 SCREW, SOC SET CUP
61	CH-0009623-02	1	CLAMP
60	CL-0010984	1	BRACKET, HEAD ALIGNMENT
58	MS-0104018	8	M10 SCREW, SOCKET HD
56	SBA-0009623	2	CLAMP
55	MS-0103823	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-H	18	WASHER, FLAT
31	MS-0104019	9	M10 SCREW, SOCKET HD
30	CT-0002068	7	WASHER, FLAT (SPECIAL)
29	CL-0010848-02	1	STRIP, DRIP
28	CLA-0010848	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	20	M6 SCREW, BUTTON HD
18	CT-0011092-07	1	NIPPLE, 1/8NPT
14	CN-0010481-01	2	SPACER
12	MW-0184010	8	WASHER, LOCK
11	NC-0010884	0	LOCTITE #242
10	DB-0009207-9B	4	NUT, COMPRESSION
9	CL-0010116-19	1	GASKET, HEADWALL (BACK)
8	CLA-0001990-27	1	BRACKET, TRAMP OIL
7	MW-0193610	72	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	CLA-0010116-02	1	GASKET, HEADWALL SEAL
1	CLA-0000343	1	FLANGE, HEADWALL SEAL
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
PEDESTAL ASSEMBLY

PART NUMBER
CLA-0000130-RT
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Pedestal Assembly, Side Discharge Machine with End-Working Turret

NOT SHOWN



287	SB-0011965	2	PIN, LOCATING
286	LO-0002850	1	LAYOUT
285	R-0008044	4	PIN, ESCUTCHEON
284	CS-0010302-01	1	TAG, CAUTION SERVICE ACCE
283	VL-0011738	2	LATCH, LOCKING
282	CL-0004990-96	1	DEFLECTOR, DOOR
281	OR-0258268	1	O-RING
280	CL-0010116-74	1	GASKET, HEADWALL SEAL
279	CL-0000343-03	1	SEAL, FLANGE HEADWALL
278	LM-0008104	1	TY-WRAP
260	LO-0002576	1	COLLET CLS.INSTALL.CL-64(
259	CL-0011801-01	1	LEE,JET
258	CL-0003177-02	1	PULLEY,SPINDLE MOTOR
257	CL-0003177-12	1	PULLEY,12S MOTOR
256	CL-0010389-02	1	SLEEVE,CLAMPING
ITEM	PART NUMBER	QTY	DESCRIPTION

255	CL-0010389-01	2	SLEEVE,CLAMPING
254	CL-0003177-01	1	PULLEY,SPINDLE MOTOR
253	CL-0003346	1	BELT, DRIVE STANDARD
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
205	WA-0009191	4	WASHER
204	CSB-0001990-30	1	BRACKET, COOLANT MT.
203	MN-0113810	2	NUT,HEX, M8 X 1.25
202	MS-0103820	2	SCREW, SOC. HD. CAP M8 X
200	HG-0010116-30	1	GASKET, AIR BLAST
199	HG-0001990-91	1	PLATE, AIR BLAST
198	MS-0103619	7	M6 SCREW, SHCS x 25mm
197	CL-0009532-02	1	GROMMET
196	CLA-0010115-54	1	COVER,SWITCH PORT
195	MS-0103818	11	M8 SCREW,SOC. HD. CAP X 2
194	CL-0010462-02	1	DISC,SPINDLE BRAKE
193	RF-0010994	0	GREASE
192	OR-0006475-V	1	O-RING
191	HG-0008384	1	ADAPTER
190	NC-0011801	1	LEE JET
189	CS-0011801	1	BODY,JET METRIC
187	CLA -0003650-02	1	SWITCH, ROLLER
183	5 -0001893	4	GROMMET
181	MS-0103621	2	M6 SCREW, SOCKET HD
180	J-0010884-01	0	3M WEATHERSTRIP ADHESIVE
179	MS-0553617	2	M6 SCREW, SOCKET-SET
178	SB-0010884-S	0	HYDRAULIC SEALANT
177	NC-0010884-01	0	LOCTITE #222
176	CL-0011623	1	GORETUBE
175	CL-0011623-Z	1	GORETUBE
167	CL-0009207-01	1	FITTING, CONDUIT 90DEG
166	CL-0011780	1	SPINDLE FEEDBACK ASSY
164	CS-0010331-03	2	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	4	WASHER
158	MN-0283510	20	M5 NUT, FLANGE
157	CL-0004990-95	1	RETAINER, SKIRT ACC COVER
155	CL-0010116-10	1	GASKET, WIREWAY
151	CL-0010116-27	2	GASKET, SKIRT DUCT COVER
150	CL-0010115-35	2	COVER, SKIRT DUCT
149	MW-0263510	15	WASHER, TOOTHED LOCK M5
146	CLB-0000221-SK	1	SKIRT ASSY, COOLANT GUARD
145	CL-0001990-25	1	TANK, TRAMP OIL
144	MS-0303617	5	M6 SCREW, BUTTON HD
143	CLB-0001990-LF	1	FRAME, FORKLIFT SLOT ASSY
142	CL-0006418	1	LABRYINTH, EXT. (REAR Z-W
141	MS-0103618	3	M6 SCREW, SOCKET HD
ITEM	PART NUMBER	QTY	DESCRIPTION

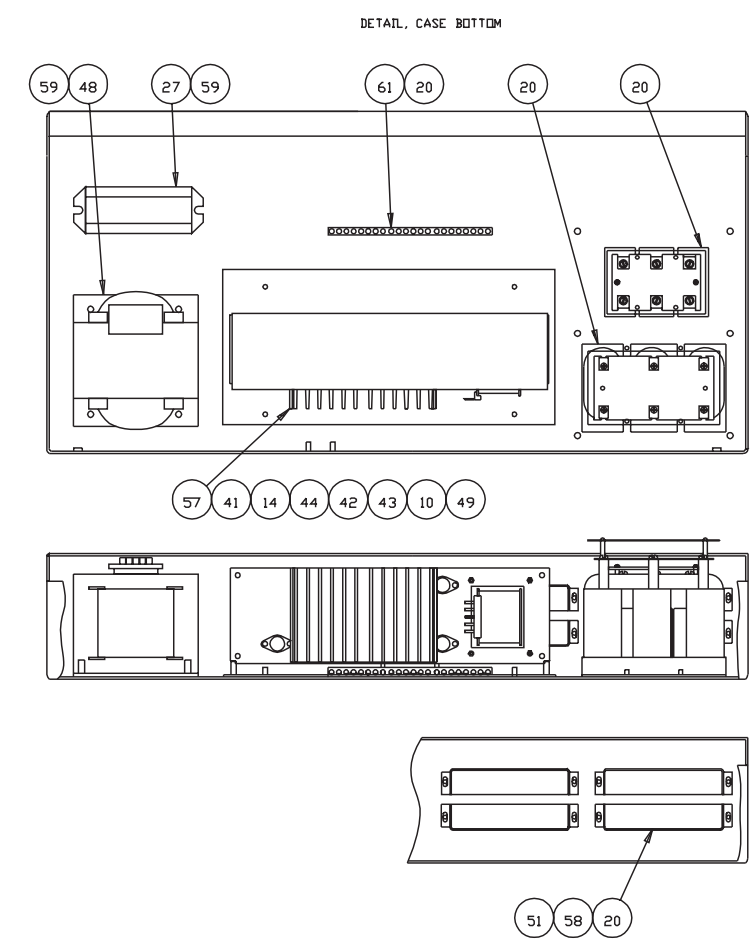
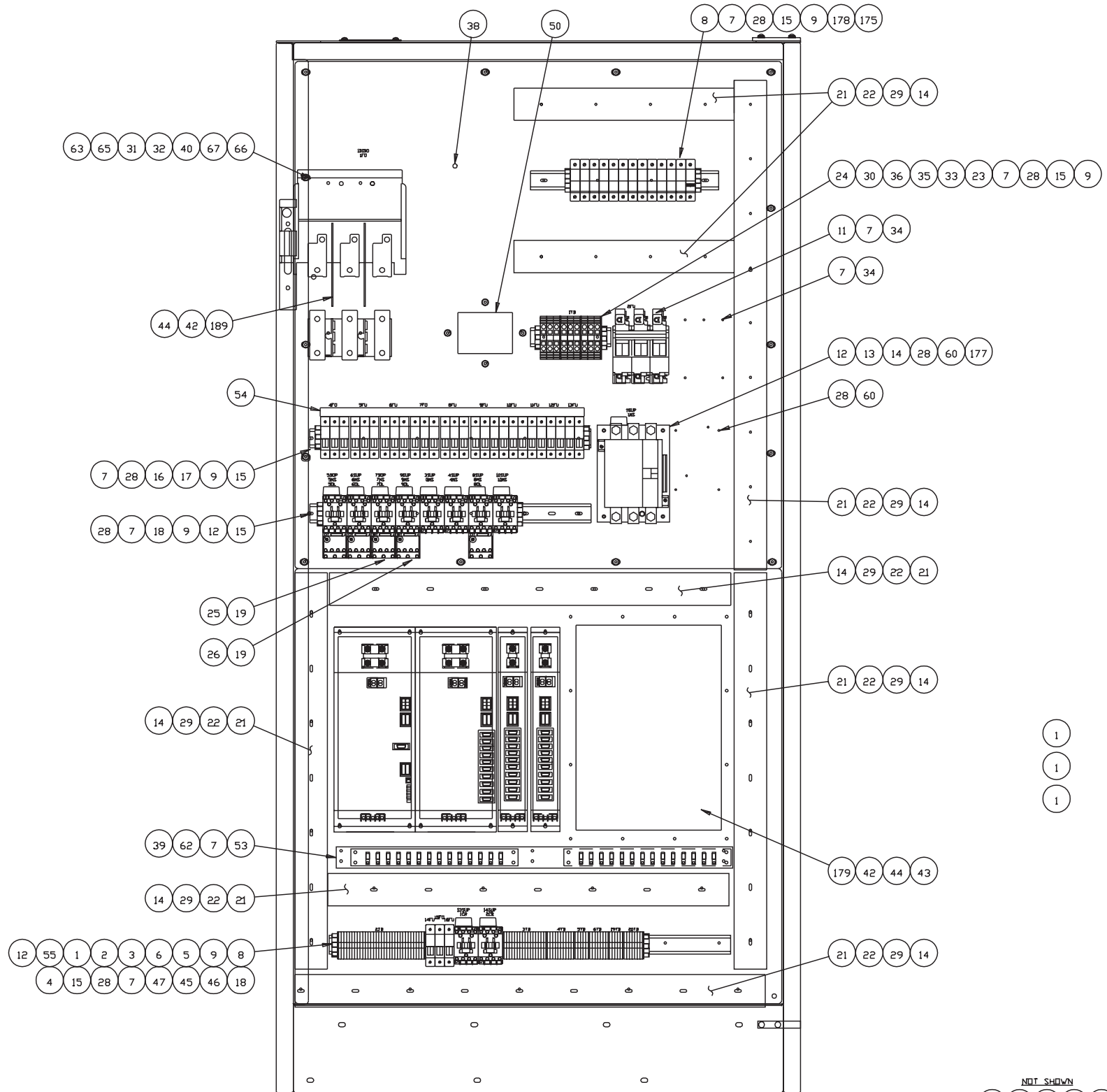
NAME

PEDESTAL ASSEMBLY

PART NUMBER

CLA-0000130-RT

SHEET 9 of 9

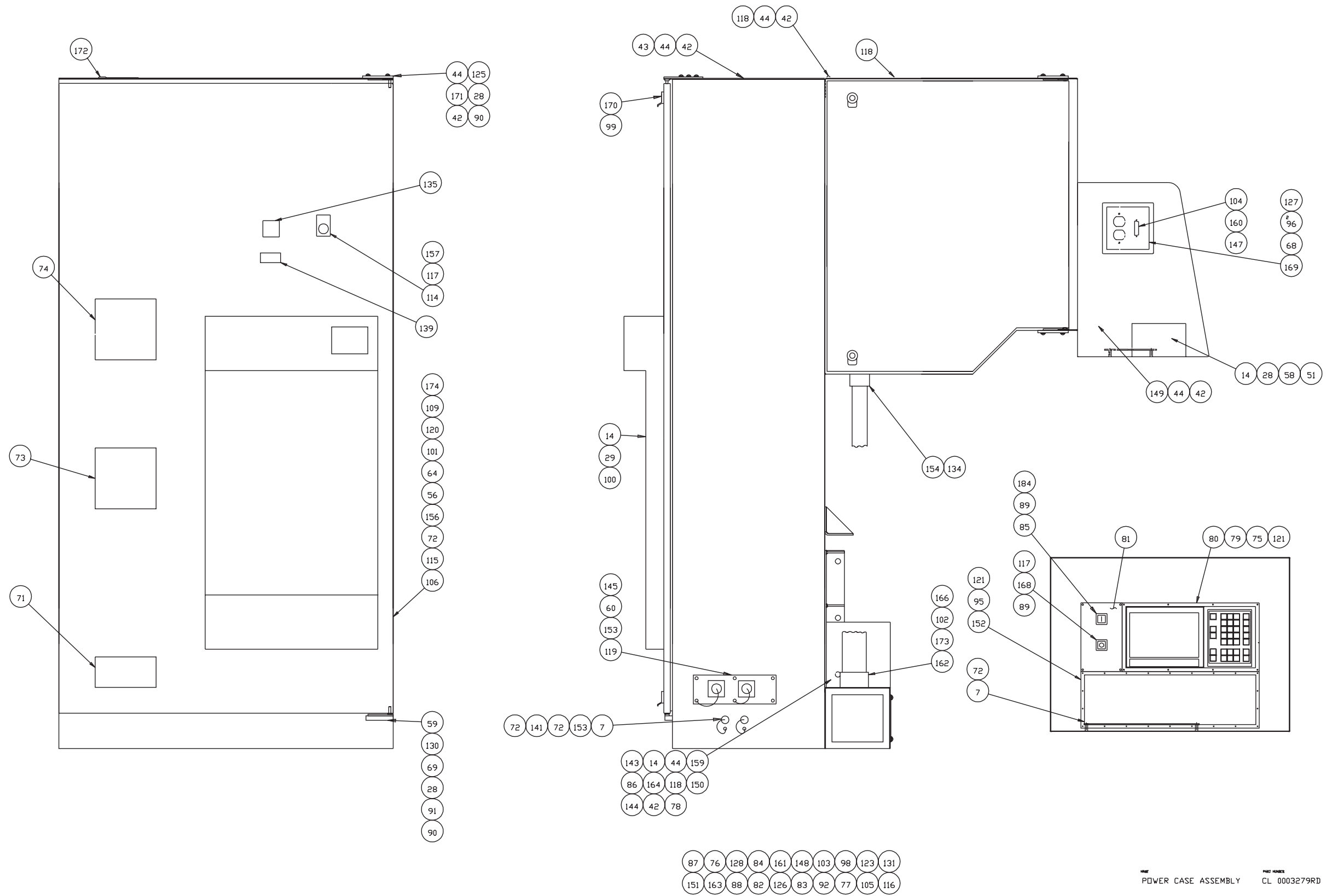


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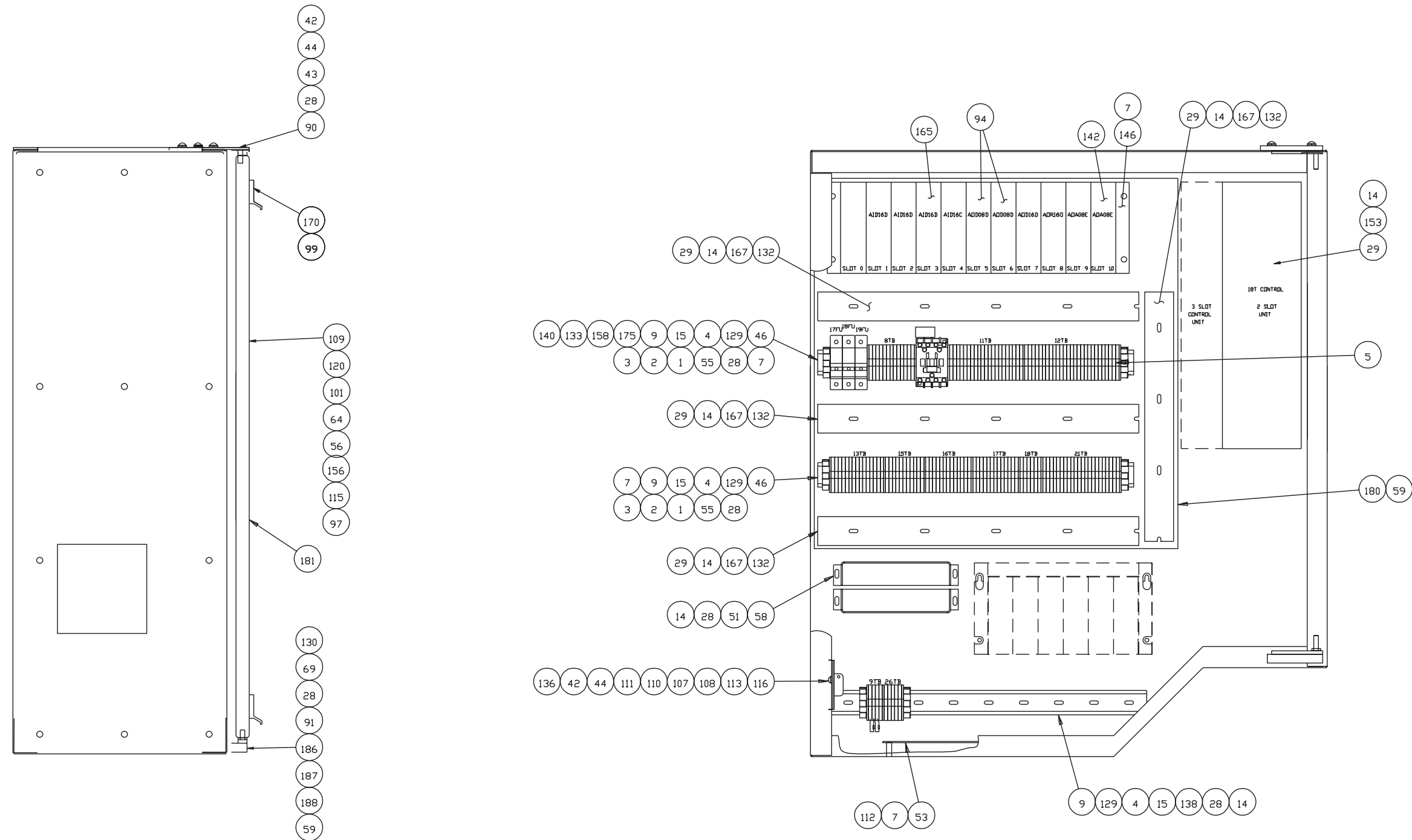
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POWER CASE ASSEMBLY CL 0003279RD

Power Case Assembly, Rear Discharge Machine



POWER CASE ASSEMBLY CL 0003279RD



POWER CASE ASSEMBLY CL 0003279RD

Power Case Assembly, Rear Discharge Machine

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	HG 000917502	0.5000	MARKER, STRIP 21-30
2	HG 000917501	0.4000	MARKER, STRIP 11-20
3	HG 0009175	0.5000	MARKER, STRIP 1-10
4	HG 001103203	23.0000	END PLATE
5	HG 001103202	15.0000	TERMINAL BLOCK, GREEN/YELLOW
6	HG 0011032	60.0000	TERMINAL BLOCK, GRAY
7	MW 0263410	56.0000	WASHER, EXT. STAR M4
8	SG 001001702	4.0000	HOLDER, FUSE 1P/W IND.CC FUS
9	CK 9011032	3.5800	RAIL, DIN BLANK
10	MS 0103516	4.0000	SCREW, SDC. HD. CAP.M5X.8X12
11	SG 001001704	1.0000	HOLDER, FUSE 3P 125A
12	VF 001129801	12.0000	FILTER
13	1B 001001602	1.0000	CONTACTOR, 180A
14	MW 0263510	91.0000	WASHER, STAR EXT. M5 STEEL
15	HG 001103204	16.0000	END STOP
16	SG 0010017	7.0000	HOLDER, FUSE 3P/W IND.CC FUS
17	SG 001001701	3.0000	HOLDER, FUSE 2P/W IND.CC FUS
18	CKA001036101	11.0000	CONTACTOR, NON-REVERSING
19	HG 0010449	2.0000	SHIELD, ANTI TAMPER
20	MN 0283510	18.0000	NUT, M5X0.8, SER HEX FLNG
21	HG 0010821	16.8900	DUCT
22	HG 001082108	16.8900	COVER, FOR DUCT (HG 10821)
23	SG 001103201	9.0000	BLOCK, TERMINAL 6 AWG
24	SG 001103206	6.0000	GUARD, FINGER-TERMINAL BLOCK
25	193000983322	1.0000	RELAY, OVERLOAD 1.5 - 2.3
26	193000983318	1.0000	OVERLOAD, A-B 0.10A-0.16A
27	CL 000023901	1.0000	BALLAST
28	MS 0303514	57.0000	SCREW, BT. HD. M5 X .8 X 8MM
29	MS 0303515	65.0000	SCREW, BT. HD. M5X.8,X 10MM
30	SG 001103205	6.0000	MARKER, WARNING TERMINAL BLD
31	CL 0010359 H	1.0000	HANDLE, OPERATING - GMS1
32	CL 001035902	1.0000	CONNECTING ROD - GMS1
33	SG 001103202	1.0000	END PLATE, TERMINAL BLOCK
34	MS 0303416	10.0000	SCREW, BT. HD. M4X.7,X 12MM
35	SG 001103203	2.0000	SEPARATOR, TERMINAL BLOCK
36	SG 001103204	6.0000	JUMPER, TERMINAL BLOCK
37	CL 0003279WPCR	1.0000	WIRE PKG PWR CASE CL-CE REAR DISC
38	HG 0010546	2.0000	NUT, 1/4-20 BRASS HEX
39	CL 000499073	1.0000	SPACER, SHIELD BAR-CEMARK
40	CL 001001712	1.0000	CLIP, FUSE KIT
41	CL 000190401	1.0000	PLATE, POWER SUPPLY SUPPORT
42	MW 0183610	85.0000	M6 REG. LOCKWASHER
43	MS 0303617	29.0000	SCREW, BT. HD. M6X1.0 X 16MM
44	MW 0103610	85.0000	WASHER, FLAT M6 STEEL
45	SG 0009175	0.1000	STRIP, MARKER 41-50
46	HG 001103205	9.0000	JUMPER, 10 PDLE
47	VL 0009175	0.1000	STRIP, MARKER 51-60
48	CL 0008776CE	1.0000	TRANSFORMER, CDNT. 2KV-CEMA
49	CL 001021564	1.0000	COVER, POWER SUPPLY - CEMARK
50	LH 0009976	0.8000	GASKET TAPE-50' RL /FT
51	HG 000415813	8.0000	BRACKET, FDAM
52	CL 0003011CECR	1.0000	CBL PKG PWR CASE CL-CE REAR DISC
53	SG 001082104	2.0000	SUPPORT, CABLE BAR
54	MC 000812204	0.5000	BUSBAR, 19, 3 PDLE
55	HG 000917503	0.3000	MARKER STRIP 31-40
56	MW 0103410	8.0000	WASHER, FLAT M4 X .7 STEEL
57	CL 000877601	1.0000	POWER SUPPLY 24VDC 12AMP
58	HG 0011350	8.0000	FILTER, FDAM
59	MN 0283610	14.0000	NUT, M6X1.0, SER HEX FLNG

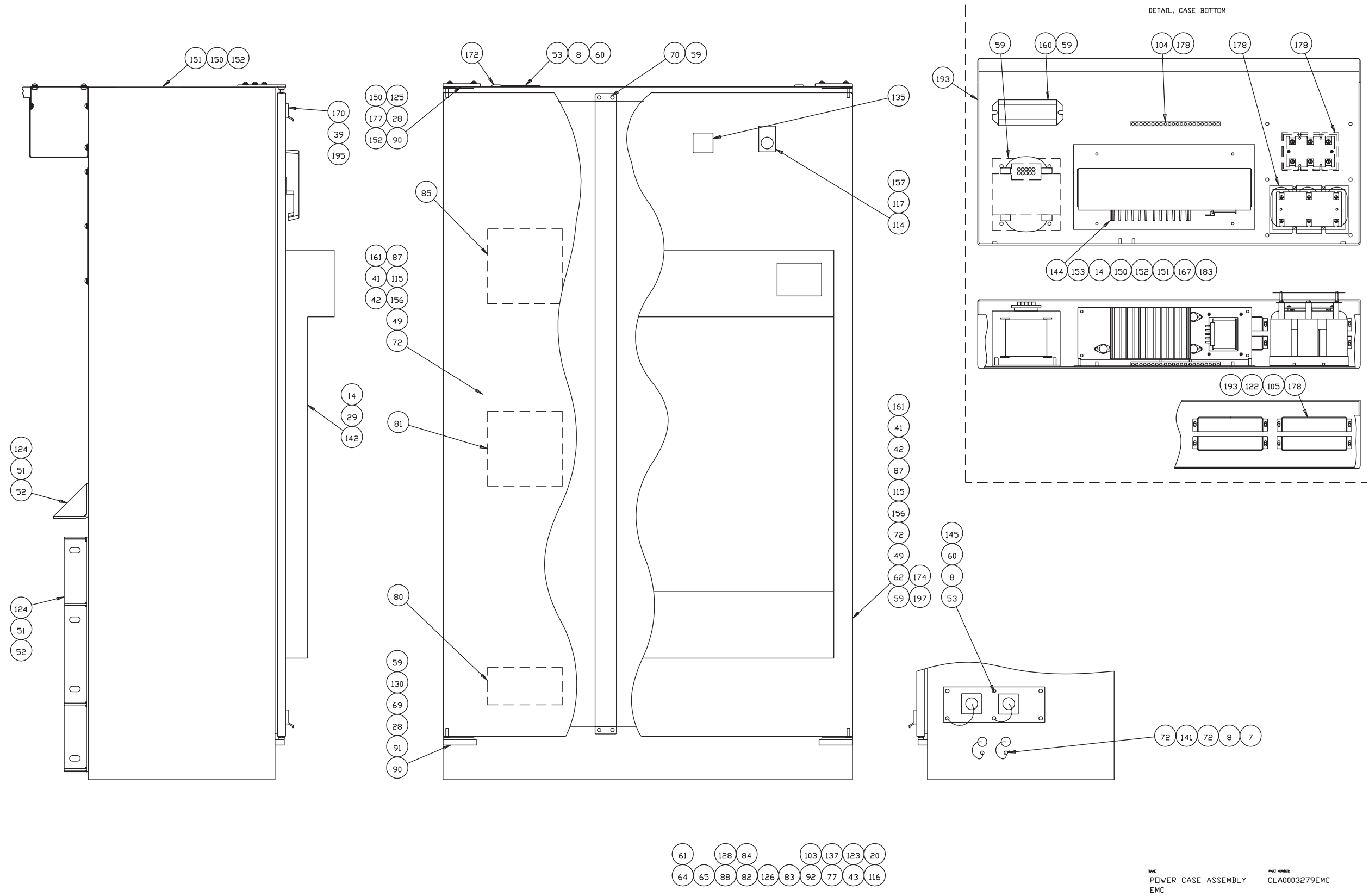
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
60	MW 0183510	14.0000	WASHER, LOCK REG. M5 X .8 SC
61	SB 0011888	1.0000	KIT, GROUND BAR
62	MS 0303410	4.0000	SCREW, BT. HD. M4X.7,X 3MM
63	SG 001011549	3.0000	COVER, FUSE, 200A
64	MW 0183410	8.0000	WASHER, LOCK M4 STEEL
65	SG 001011550	2.0000	COVER, TERMINAL, 200A
66	CL 001001603	1.0000	SWITCH, 200 AMP DISCONNECT
67	CL 001001711	1.0000	TRAILER, FUSE BLOCK KIT
68	CN 0011062	1.0000	KNDB
69	MS 0103619	4.0000	SCREW, SDC.HD.CAP M6X1.0X25M
71	CL 0010522CE03	1.0000	LABEL, POWERCASE FLOOR
72	MS 0303414	10.0000	BUTTON HEAD SCREW
73	CL 0010522CE02	1.0000	LABEL, LOWER POWERCASE
74	CL 0010522RD01	1.0000	LABEL, UPPER PWRCASE-REAR DI
75	3 001088401	0.1000	ADHESIVE
76	CS 001204214	2.0000	RECEPTACLE
77	CS 001204215	2.0000	CAP, RECEPTACLE
78	CL 0004158FM	1.0000	MOUNT, FAN-FAN HOUSING PWR C
79	CL 0010116	2.0000	GASKET
80	CL 000022144	1.0000	FACEPLATE, CONTROL HOUSING
81	CL 000415841	1.0000	PANEL, ON-OFF
82	F3 0009977	4.0000	LABEL, CABLE
83	F3 000997702	28.0000	LABEL, WIRE, SMALL
84	LD 0002672AH	1.0000	LAYOUT, RAM TURRET
85	LC 0003650GE02	1.0000	SWITCH, CONTACT BLOCK, INC
86	MS 0303518	1.0000	SCREW, BT. HD. M5X.8,X 20MM
87	18A000301103	12.5000	CABLE 3 CONDUCTOR 18 AWG
88	LD 0002672 L	1.0000	TAGS, CABLE CHIP CONVEYDR
89	LC 0003650GE2B	2.0000	SWITCH, OPERATOR, OPAQUE, FL
90	SBA0011939	3.0000	HINGE PIN ASSEMBLY
91	AD 0003623	2.0000	WASHER, NYLON
92	LD 0002468	1.0000	INSTR INTERFACE INSTALL OPTI
94	1B 0011791CE	2.0000	MODULE, DC OUTPUT, 8 POINT-CEM
95	SG 0010116MP	1.0000	GASKET, MEMBRANE PANEL
96	CC 0011947	2.0000	STRIP, MAGNETIC
97	CL 0003780ID	1.0000	DOOR, I/O CASE
98	AH 0011508	2.0000	NUT, LOCK
99	HG 001173801	6.0000	DOOR PULL-USE VL-11738-1
100	HG 0011555	1.0000	HEAT EXCHANGER
101	SB 0011962	1.2000	CHAIN, RESTRAINT
102	CS 0010225	2.0000	FITTING, PVC CONDUIT
103	CK 000918818	4.0000	FERRULES, 18 AWG
104	CN 0012042 B	1.0000	BLOCKS, LATCHING
105	LM 0008104	30.0000	TY-RAP
106	CL 0003780PC	1.0000	DOOR, POWER CASE
107	6 0008137	2.0000	WASHER, LOCK
108	0300103	2.0000	SCREW BT HD 6-32 X 3/16
109	NC 001047307	1.0800	HEAT SHRINKABLE TUBING
110	CL 000415832	1.0000	BRACKET, SWITCH, OTC & I/O CA
111	MS 0303615	2.0000	SCREW, BT. HD. M6X1.0X 10MM
112	MS 0303417	4.0000	SCREW, BT. HD. M4X.7,X 16MM
113	CL 001022407	1.0000	SWITCH, INTERLOCK
114	LC 0003650GE03	1.0000	SWITCH, 2 POSITION, ROUND
115	CN 00119801	20.8000	SEAL, DOOR
116	NC 001047306	2.3000	HEAT SHRINKABLE TUBING
117	LC 0003650GE01	2.0000	SWITCH, CONTACT BLOCK, INC
118	MS 0303616	43.0000	SCREW, BT. HD. M6X1.0 X 12MM
119	MS 0303516	6.0000	SCREW, BUT.HD.M5X.8X12MM

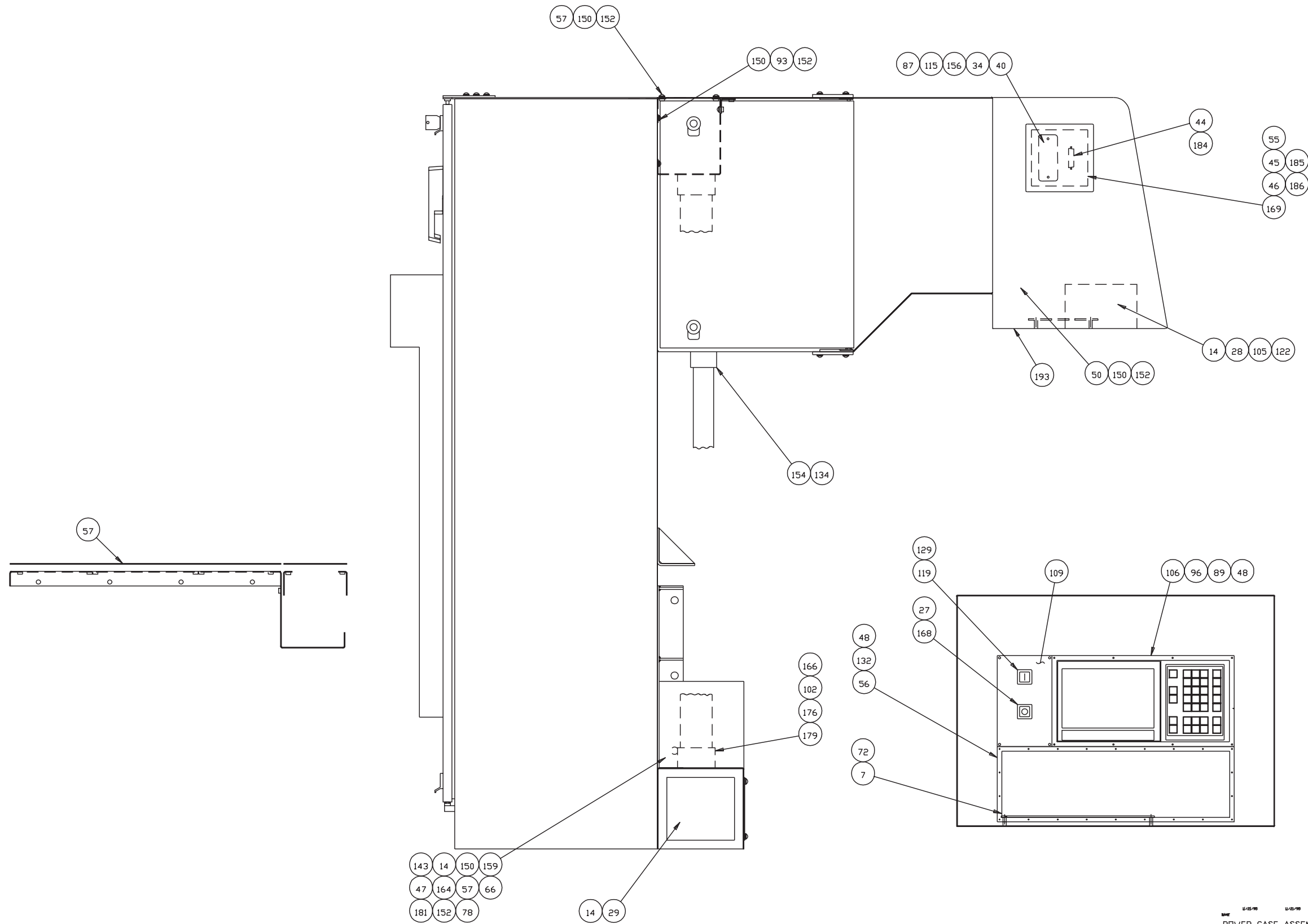
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
120	HC 0010746	8.0000	HOOK, S-TYPE
121	MS 0303315	24.0000	SCREW, BUTTDN HD. M3X5X10MM
123	SO 0010226	2.0000	GASKET ASSEMBLY 1/2 INCH
125	MS 0303619	1.0000	SCREW, BT. HD. M6X1.0 X 25MM
126	LD 0002672	1.0000	TAG LAYOUT, CL 18 CONTRDL
127	0300204	1.0000	SCREW BT HD 8-32 X 1/4
128	NC 001129802	1.0000	SUPPRESSOR
129	HG 001103201	150.0000	TERMINAL BLOCK,BLUE
130	MW 0193610	4.0000	WASHER, LOCK DIN-7980 M6X1.0
131	1820002874BU	31.7000	WIRE, DARK BLUE
132	KH 0010821	5.6700	DUCT, WIRING
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
136	AH 0009188RB	2.0000	CONNECTOR,
138	GN 001047201	2.0000	RESISTOR
139	CS 000997105	1.0000	TOTALIZER
140	VF 001036101	1.0000	ADDER DECK
141	CK 001033101	2.0000	CAP PLUG 7/8
142	18 001179149CE	1.0000	MODULE, OPTIDN
143	MN 0113510	1.0000	NUT, HEX
144	CL 001135001	1.0000	FILTER
145	CL 0012147CE	1.0000	INTERFACE, BARFEED
146	MS 0303415	4.0000	SCREW, BT. HD. M4X.7,X 10MM
147	CN 0012042 R	1.0000	RECEPTACLE
148	CL 0003011 A	1.0000	CABLE, ASSEMBLY
149	MS 0103616	10.0000	SCREW,SDC.HD.CAP M6X1.0X12MM
150	MS 0303517	4.0000	SCREW, BUTTDN HD. M5X.8X16MM
151	1420002874BL	12.0000	WIRE
152	CS 0012099	1.0000	BEZEL, PANEL
153	MW 0103510	10.0000	WASHER, FLAT M5 X .8 STEEL
154	HG 001022901	4.0000	CONDUIT, 1-1/4"
156	MN 0113410	6.0000	NUT, HEXAGON, 934 PLATED
157	LC 0003650GE43	1.0000	SWITCH,NAME PLATE,INTERLOCK-
158	VF 0011298	1.0000	DIODE, SUPPRESSOR
159	CS 001185014	1.0000	FAN, TUBEAXIAL TARZAN
160	0300004	2.0000	SCREW
161	CL 001036605	1.0000	TAG KIT, FDDTSWITCH
162	2500010229	5.0000	CONDUIT, 2-1/2 DIA. P & C FLE
163	RBB0009188	4.0000	BUTT SPLICE
164	CN 000953201	1.0000	GRDMMET
165	18 001179102	1.0000	INPUT MODULE I/O SYSTEM
166	CS 001088403	0.3530	CEMENT, PVC
167	ADA001082101	5.6700	DUCT, WIRING
168	LC 0003650GE30	1.0000	SWITCH, CAP, OPAQUE, "OFF"
169	HG 000378004	1.0000	COVER, RS232
170	VL 0011738	4.0000	LATCH, DOOR, VISE ACTION
171	MS 0303618	2.0000	SCREW, M6-1 X 20
172	CS 001033103	2.0000	PLUG, SNAP IN
173	CS 001022501	2.0000	NUT, CONDUIT
174	DV 0010546	2.0000	NUT FOR GROUNDING POST
175	SG 001001703	15.0000	HOLDER, FUSE IP/W/O IND.CC F
177	CL 0010115 T	1.0000	COVER, TERMINAL
178	VL 0009610	13.0000	FUSE, 2AMP
179	CL 001021563	1.0000	COVER, WITHOUT OPTIONS
180	CL 000190409	1.0000	PLATE, I/O MOUNTING
181	CL 0010522RD04	1.0000	LABEL, I/O CASE REAR DISCHAR
182	CL 001021567	1.0000	COVER, PC LEFT SIDE
183	CS 000283405	1.0000	SWITCH, SAFETY

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
184	LC 0003650GE29	1.0000	SWITCH, CAP, OPAQUE, "DN"
185	CL 0012024RDDB	1.0000	DATA BASE WIRE & CBL CL-CE REAR DISC
186	SG 000415808	1.0000	PLATE, DOOR HINGE (TOP)
187	SG 000415809	1.0000	PLATE, DOOR HINGE (BOTTOM)
188	SG 000415810	1.0000	BRACKET, DOOR HINGE MTG.
189	MS 0103622	6.0000	M6 X 1.0 X 40MM SHCS

POWER CASE ASSEMBLY PART NUMBER CL 0003279RD

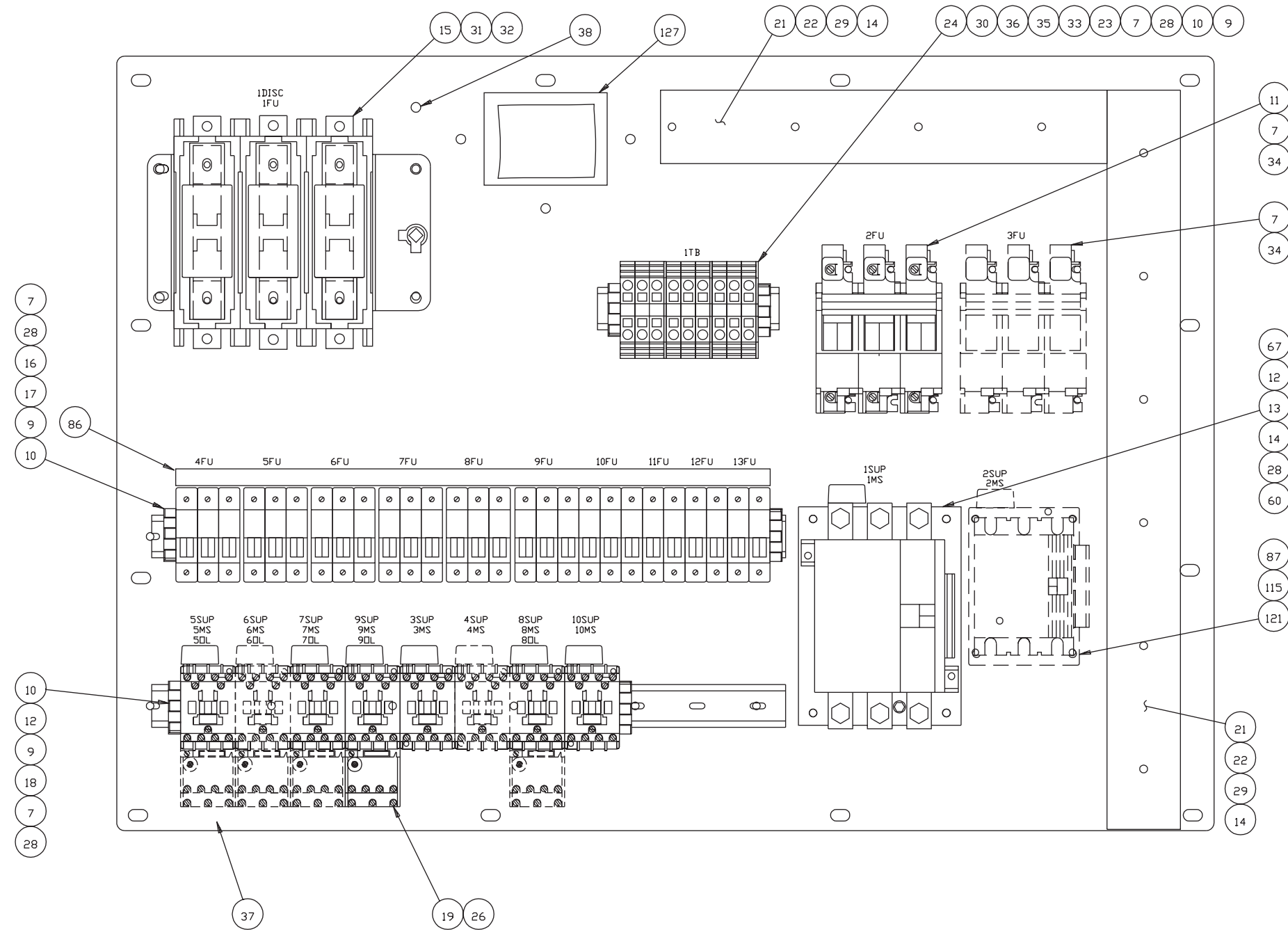
Power Case Assembly, Side Discharge Machine, CE Mark





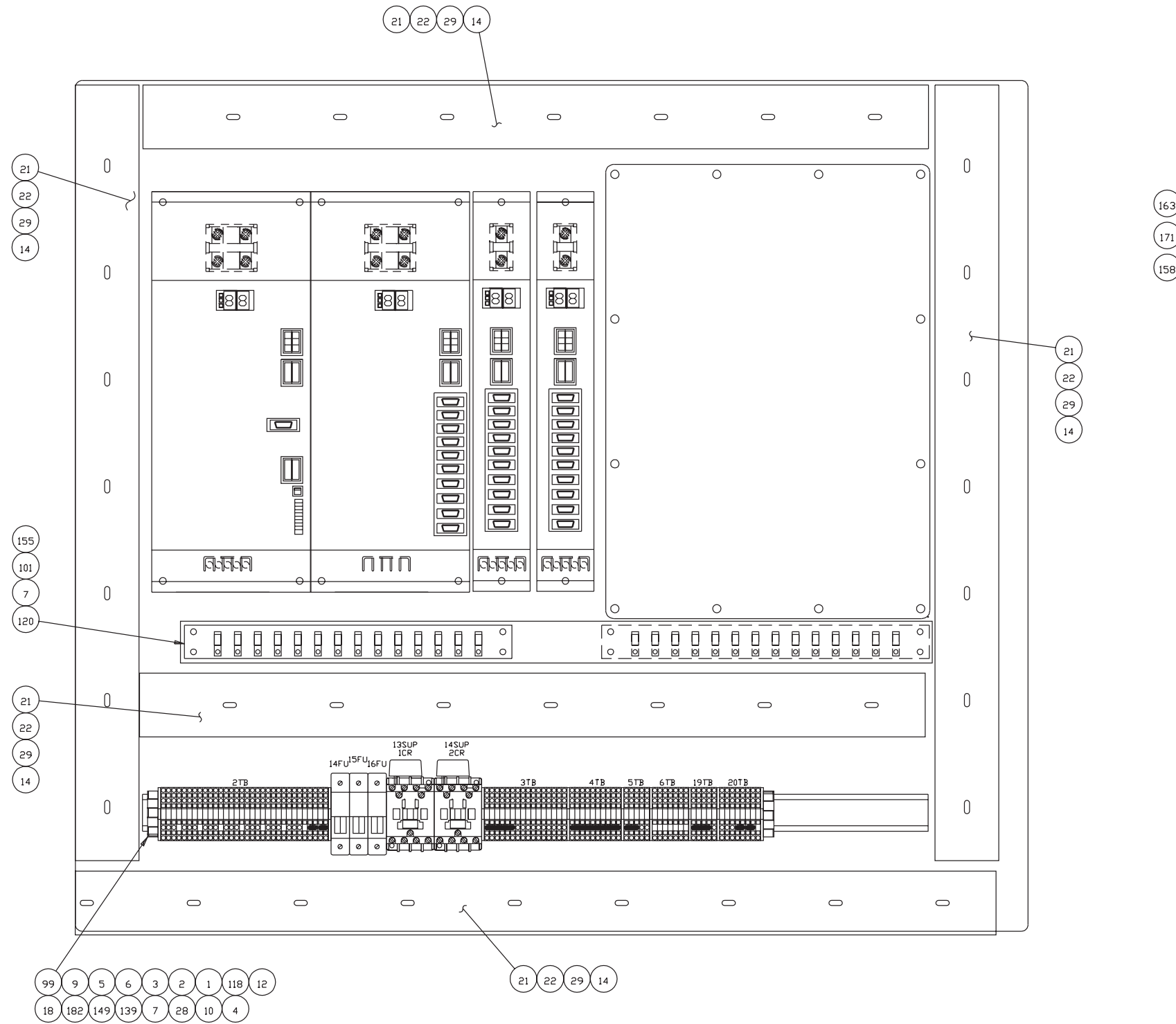
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 POWER CASE ASSEMBLY CL-EMC

Power Case Assembly, Side Discharge Machine, CE Mark



NAME
 POWER CASE ASSEMBLY
 CL-EMC

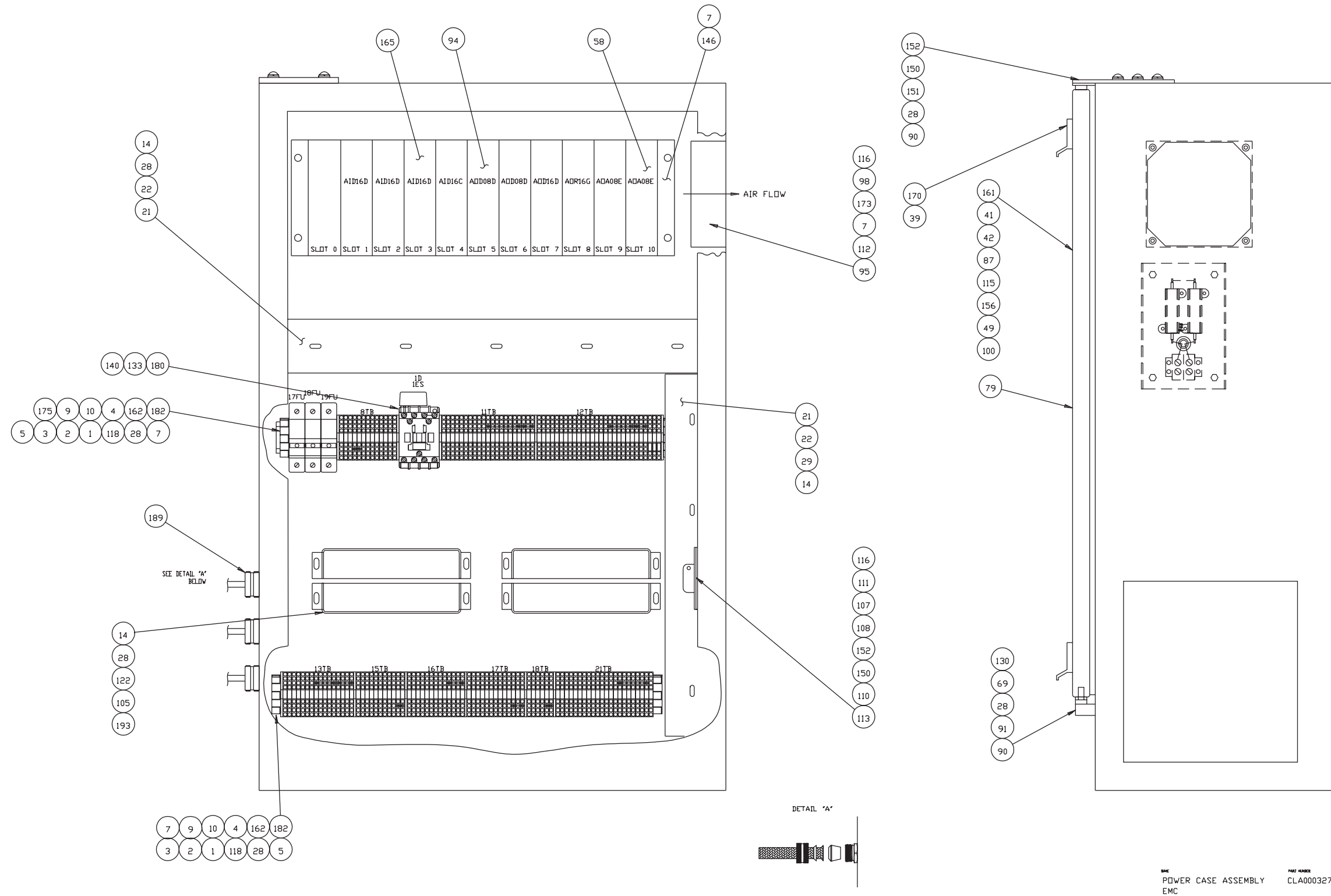
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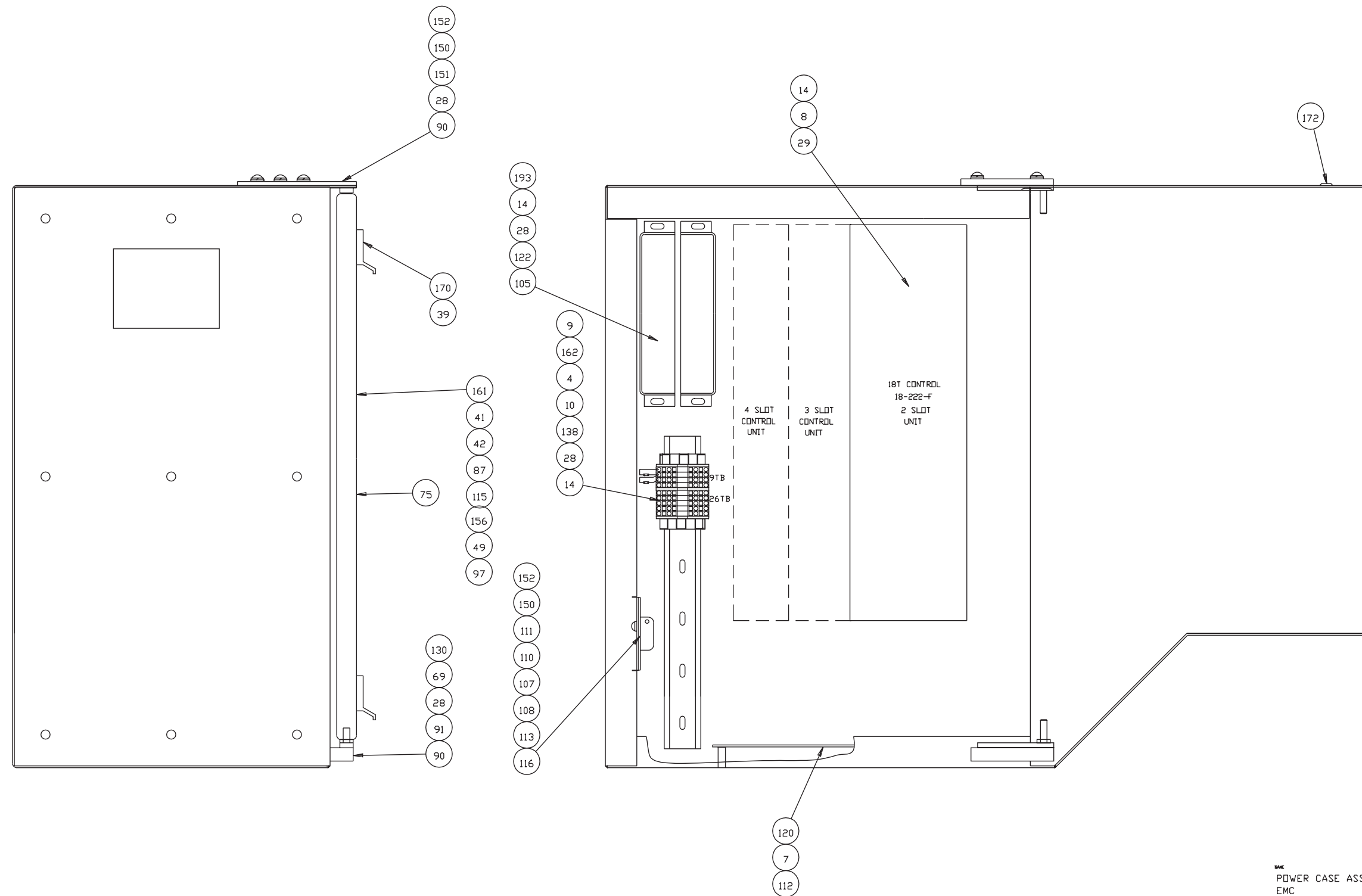


POWER CASE ASSEMBLY
EMC

CL.A0003279EMC

Power Case Assembly, Side Discharge Machine, CE Mark





DAVE POWER CASE ASSEMBLY EMC
PART NUMBER CLA0003279EMC

Power Case Assembly, Side Discharge Machine, CE Mark

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 00101549	1.0000	COVER, FUSE, 200A
32	SG 001011550	1.0000	COVER, TERMINAL, 200A
33	SG 001103202	1.0000	END PLATE, 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	HG 0011738	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, BUTT DN 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, OPTION
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 0004158EM11	1.0000	DOOR, POWERCASE (RIGHT)
64	1420002874BL	12.0000	WIRE
65	RBB0009188	4.0000	BUTT SPLICE
66	MS 0303517	4.0000	SCREW, BUTT DN 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, CONTRL CASE
77	CS 001204215	2.0000	CAP, RECEPTACLE
78	CL 0004158FM	1.0000	MODULE, 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 0004158EM21	1.0000	DOOR, OTC CONTRL 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, L/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, FOAM
106	CL 000022144	1.0000	FACEPLATE, CONTRL 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 & L/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

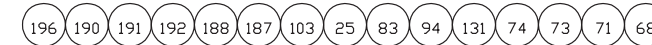
DATE: POWER CASE ASSEMBLY
EMC
PART NUMBER: CLA0003279EMC

Power Case Assembly, Side Discharge Machine, 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, BUTTDN 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	SUPPRESSDR
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	RESISTDR
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 SUPPORT
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, SDC. 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 POST
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

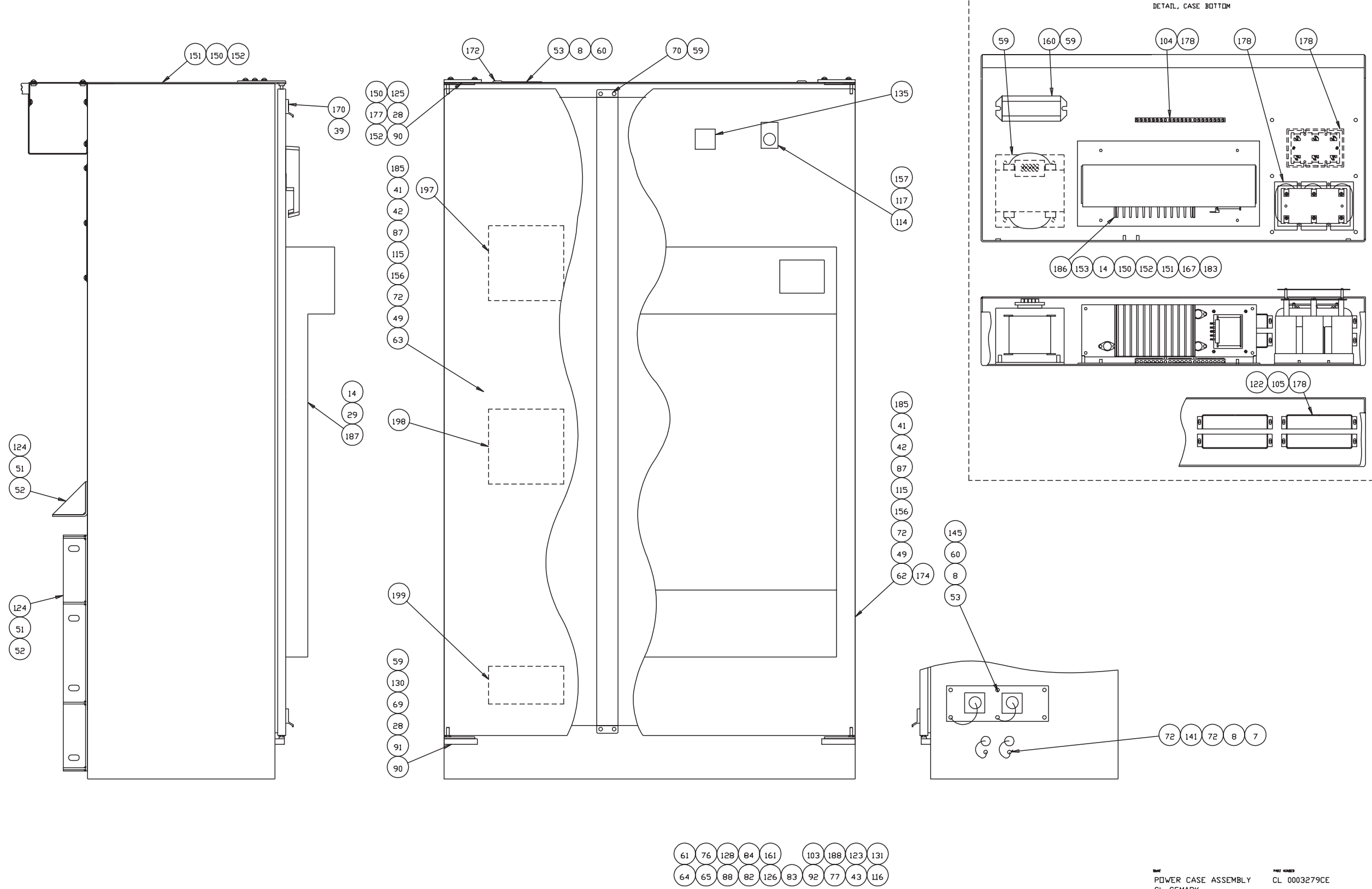
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
178	MN 0283510	18.0000	NUT, HEX SERRATED FLANGE
179	2500010229	5.0000	CONDUIT, 2-12 DIA. P & C FLE
180	VF 0011298	1.0000	DIODE, SUPPRESSDR
181	CL 001135001	1.0000	FILTER
182	HG 001103205	12.0000	JUMPER, 10 POLE
183	CL 001021564	1.0000	COVER, POWER SUPPLY - CEMARK
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
195	HG 001173802	1.0000	PULL, DOOR
196	CL 0009532	7.0000	GROMMET
197	CL 0001990DFB	1.0000	BRACKET, FILTER BOX DOOR

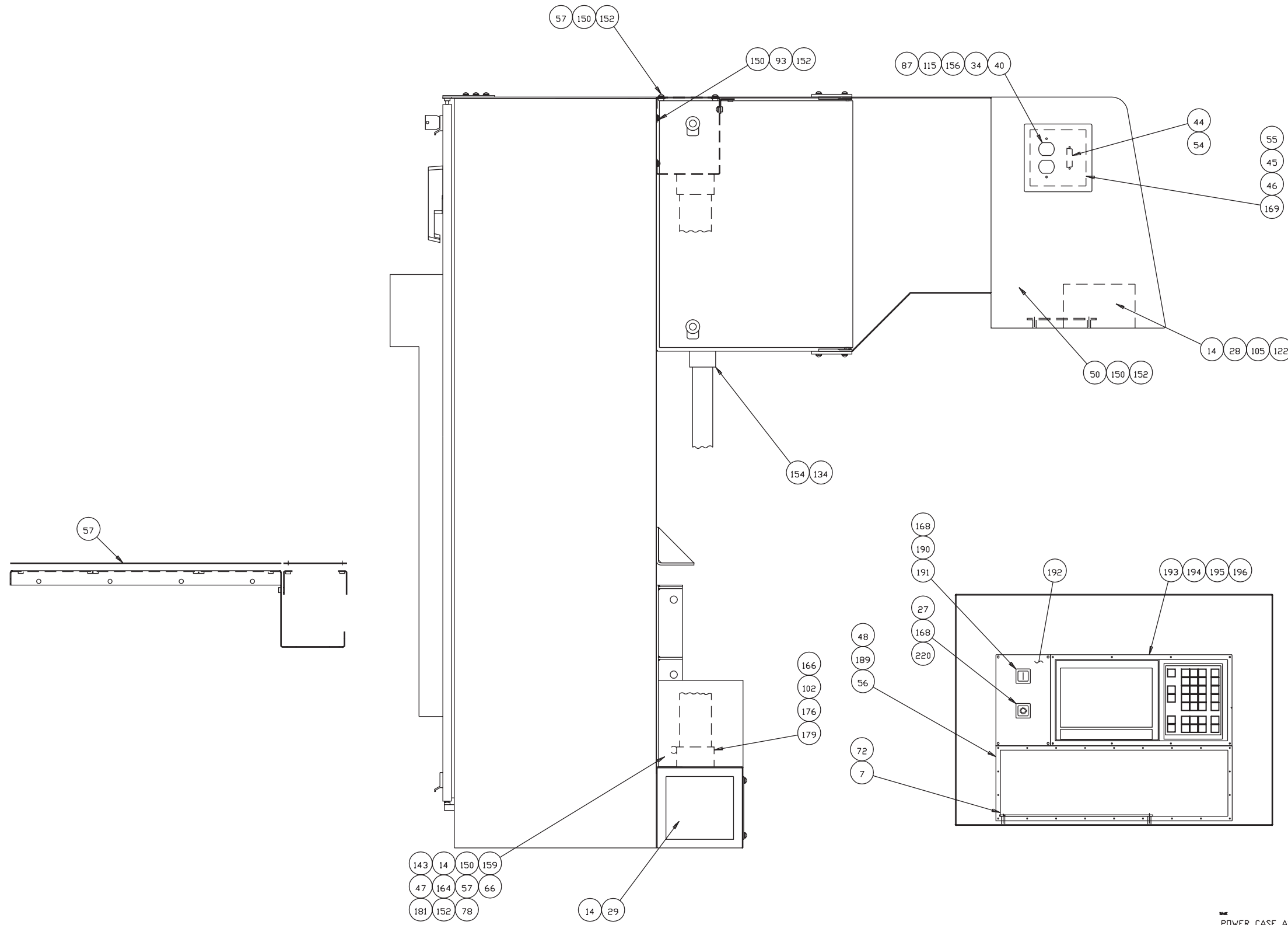
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NAME POWER CASE ASSEMBLY EMC PART NUMBER CLA0003279EMC

Power Case Assembly, Side Discharge Machine, Non-CE Mark

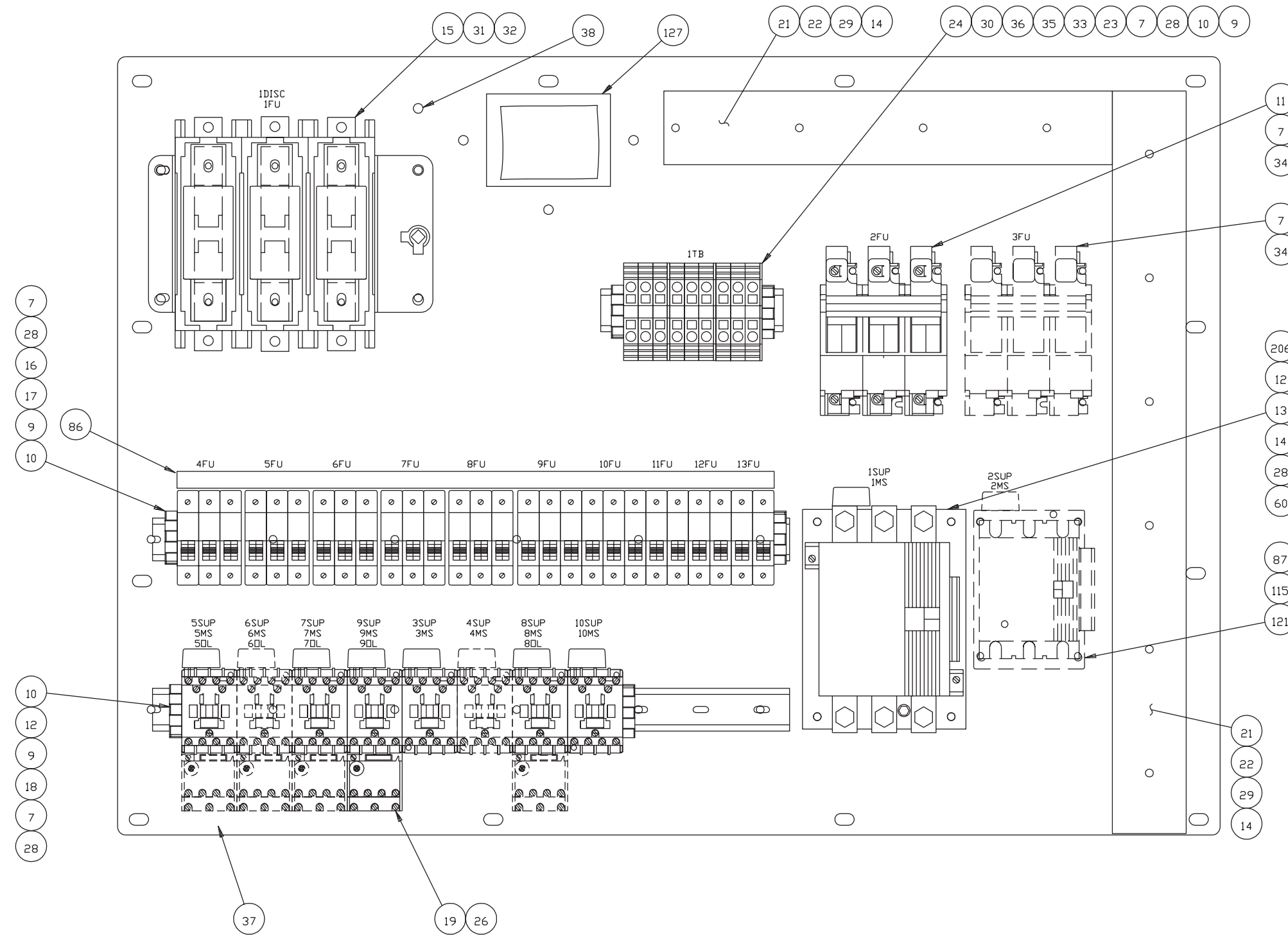




DATE
 POWER CASE ASSEMBLY
CL-CEMARK

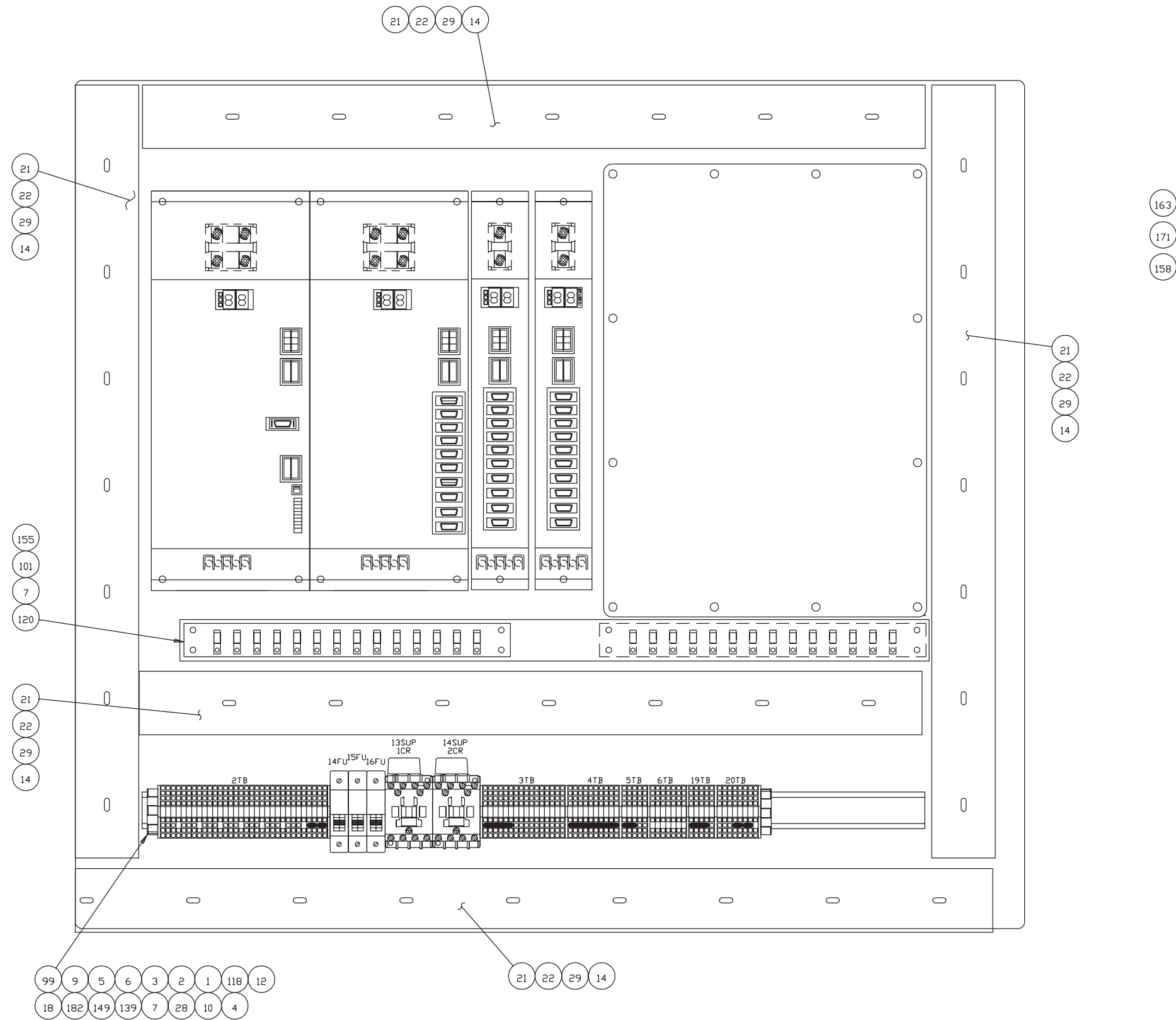
PART NUMBER
 CL 0003279CE

Power Case Assembly, Side Discharge Machine, Non-CE Mark



NAME
POWER CASE ASSEMBLY
CL-CEMARK

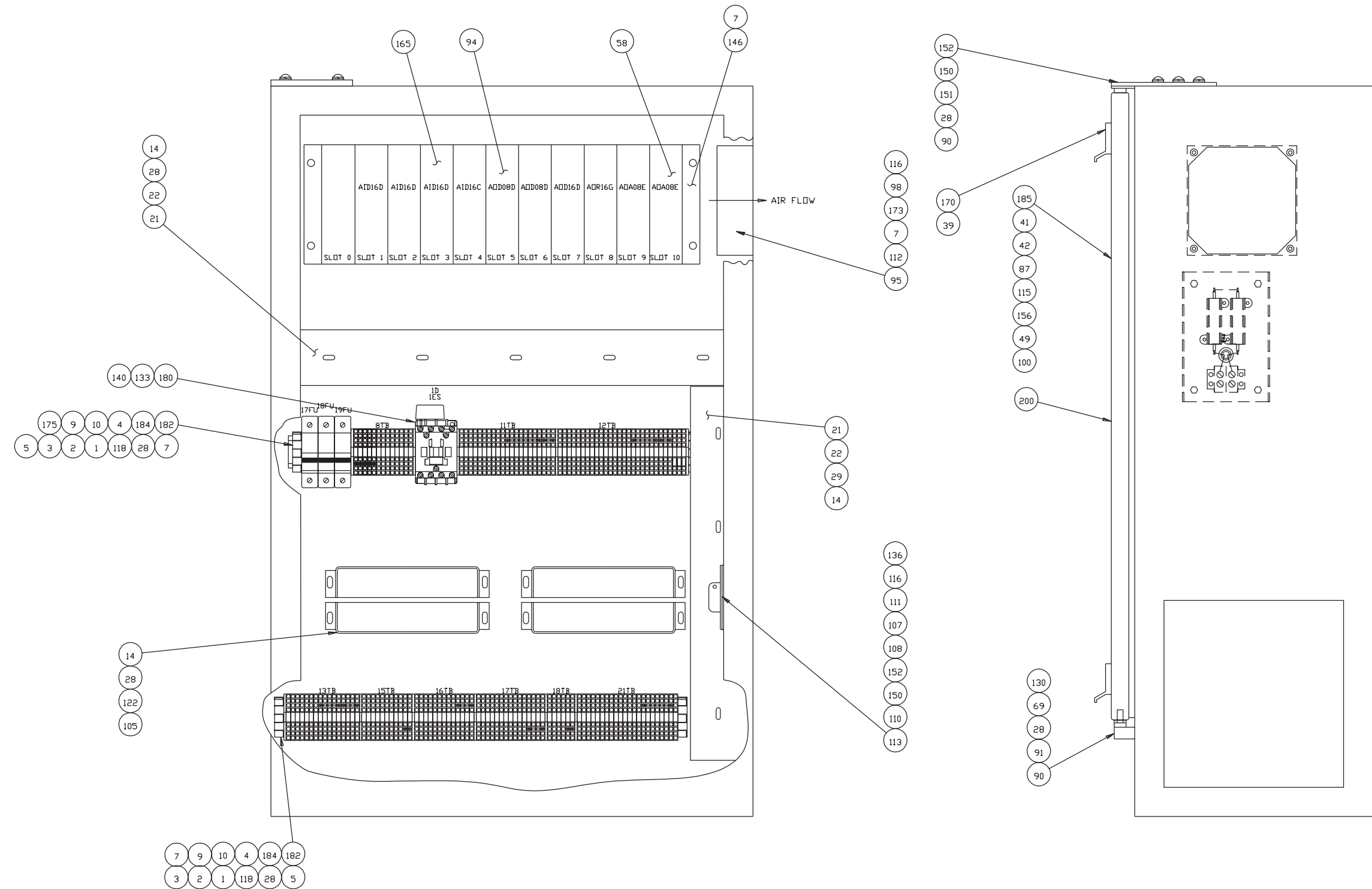
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NAME
 POWER CASE ASSEMBLY
 CL-CEMARK

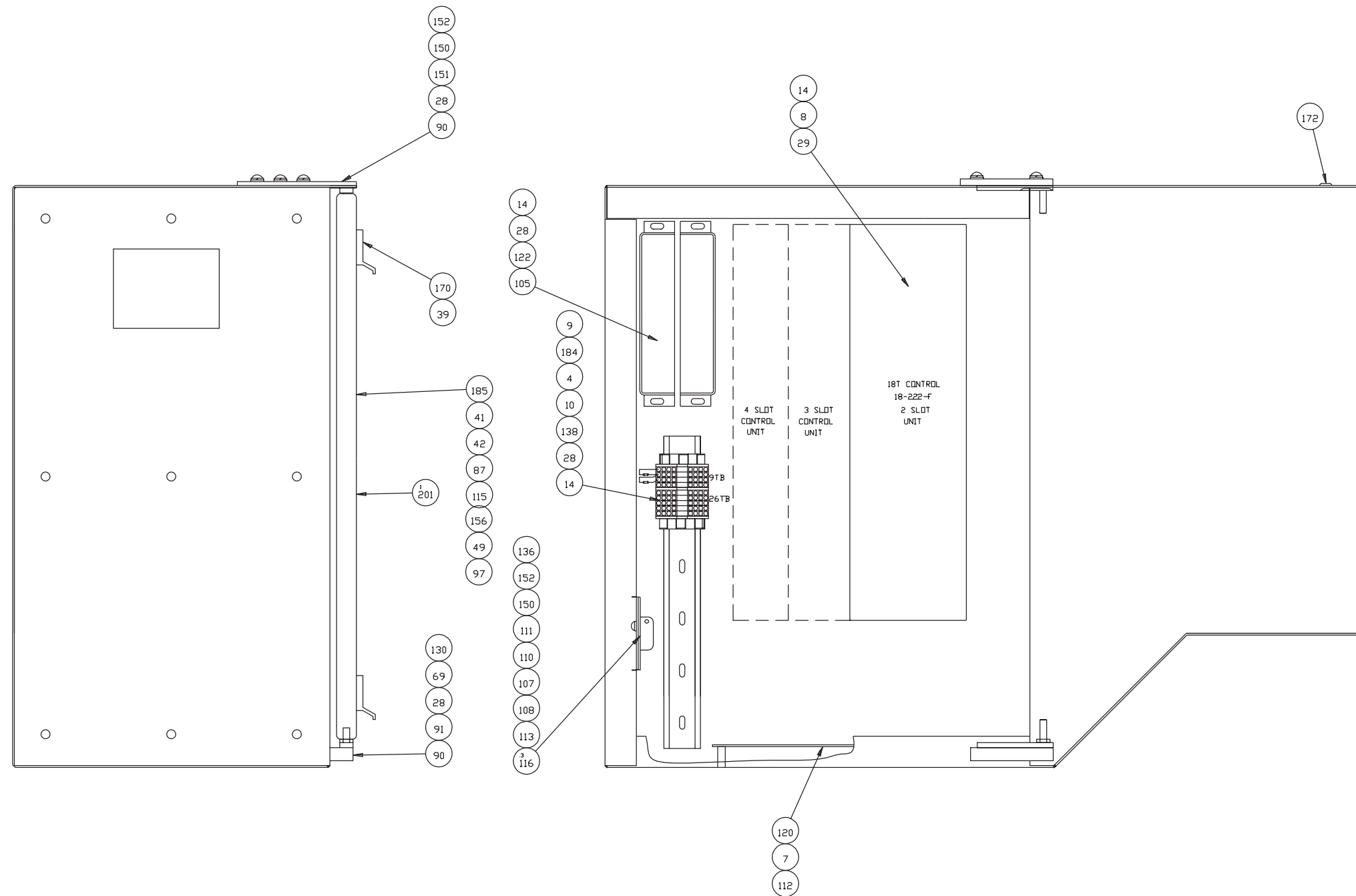
PART NUMBER
 CL 0003279CE

Power Case Assembly, Side Discharge Machine, Non-CE Mark



NAME
 POWER CASE ASSEMBLY
 CL-CEMARK

PART NUMBER
 CL 0003279CE



POWER CASE ASSEMBLY CL 0003279CE

Power Case Assembly, Side Discharge Machine, Non-CE Mark

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	5.0000	SHIELD, ANTI TAMPER
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
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	3.0000	COVER, FUSE, 200A
32	SG 001011550	1.0000	COVER, TERMINAL, 200A
33	SG 001103202	1.0000	END PLATE, 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	HG 001173801	8.0000	DOOR PULL
40	HG 001204201	1.0000	RECEPTACLE, 115VAC, 3 WIRE
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	KNOB
47	MS 0303518	1.0000	SCREW, BT. HD. M5X.8, X 20MM
49	CN 001119801	42.2000	SEAL, DOOR
50	MS 0103616	10.0000	SCREW, SDC.HD.CAP M6X1.0X12MM
51	CT 0002068	7.0000	WASHER
52	MS 0104018	7.0000	SCREW, SDC.HD.CAP.M10X1.5 X20
53	MS 0303516	10.0000	SCREW, BUT.HD.M5X.8X12MM
54	0300004	2.0000	SCREW
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

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
59	MN 0283610	12.0000	NUT, HEX SERRATED FLANGE
60	MW 0183510	14.0000	WASHER, LOCK REG. M5 X .8 SC
61	18A000301103	12.5000	CABLE 3 CONDUCTOR 18 AWG
62	CL 000415811	1.0000	DOOR, POWERCASE (RIGHT)
63	CL 000415810	1.0000	DOOR, POWERCASE (LEFT)
64	1420002874BL	12.0000	WIRE
65	RBB0009188	4.0000	BUTT SPLICE
66	MS 0303517	4.0000	SCREW, BUTT DN HD. M5X.8X16MM
69	MS 0103619	8.0000	SCREW, SDC.HD.CAP M6X1.0X25M
70	CL 000415808	1.0000	DIVIDER, DOOR
72	MS 0303414	12.0000	BUTTON HEAD SCREW
76	CS 001204214	2.0000	RECEPTACLE
77	CS 001204215	2.0000	CAP, RECEPTACLE
78	CL 0004158FM	1.0000	MDUNT, FAN-FAN HOUSING PWR C
82	F3 0009977	4.0000	LABEL, CABLE
83	F3 000997702	46.0000	LABEL, WIRE, SMALL
84	LD 0002672AH	1.0000	LAYOUT, RAM TURRET
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 CONVEYOR
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, SDC.HD.CAP M6X1.0X16M
94	18 0011791CE	2.0000	MODULE, DC OUTPUT, 8 POINT-CEM
95	CN 001134901	1.0000	FAN
97	CL 000415821	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 000415818	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, FOAM
107	6 0008137	4.0000	WASHER, LOCK
108	0300103	4.0000	SCREW BT HD 6-32 X 3/16
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
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 CONTROL
127	LH 0009976	0.8000	GASKET TAPE-50' RL /FT
128	NC 001129802	1.0000	SUPPRESSOR

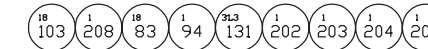
POWER CASE ASSEMBLY CL 0003279CE

Power Case Assembly, Side Discharge Machine, Non-CE Mark

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
130	MW 0193610	8.0000	WASHER, LOCK DIN-7980 M6X1.0
131	1820002874BU	63.0000	WIRE, DARK BLUE
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
136	AH 0009188RB	4.0000	CONNECTOR,
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
143	MN 0113510	1.0000	NUT, HEX
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 SUPPORT
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	CL 001036605	1.0000	TAG KIT, FOOTSWITCH
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, SDC. HD. CAP.M5X.8X12
168	HG 0010224FB	1.0000	SWITCH, DP OFF COOLANT
169	HG 000378004	1.0000	COVER, RS232
170	VL 0011738	8.0000	LATCH, DDDR, 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 POST
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
178	MN 0283510	18.0000	NUT, HEX SERRATED FLANGE
179	2500010229	5.0000	CONDUIT, 2-12 DIA. P & C FLE
180	VF 0011298	1.0000	DIPDE, SUPPRESSOR
181	CL 001135001	1.0000	FILTER
182	HG 001103205	12.0000	JUMPER, 10 PDLE
183	CL 001021564	1.0000	COVER, POWER SUPPLY - CEMARK
184	HG 001103201	151.0000	TERMINAL BLOCK,BLUE
185	NC 001047307	2.0300	HEAT SHRINKABLE TUBEING
186	CL 000877601	1.0000	POWER SUPPLY
187	HG 0011555	1.0000	HEAT EXCHANGER
188	AH 0011508	2.0000	NUT, LOCK
189	SG 0010116MP	1.0000	GASKET, MEMBRANE PANEL

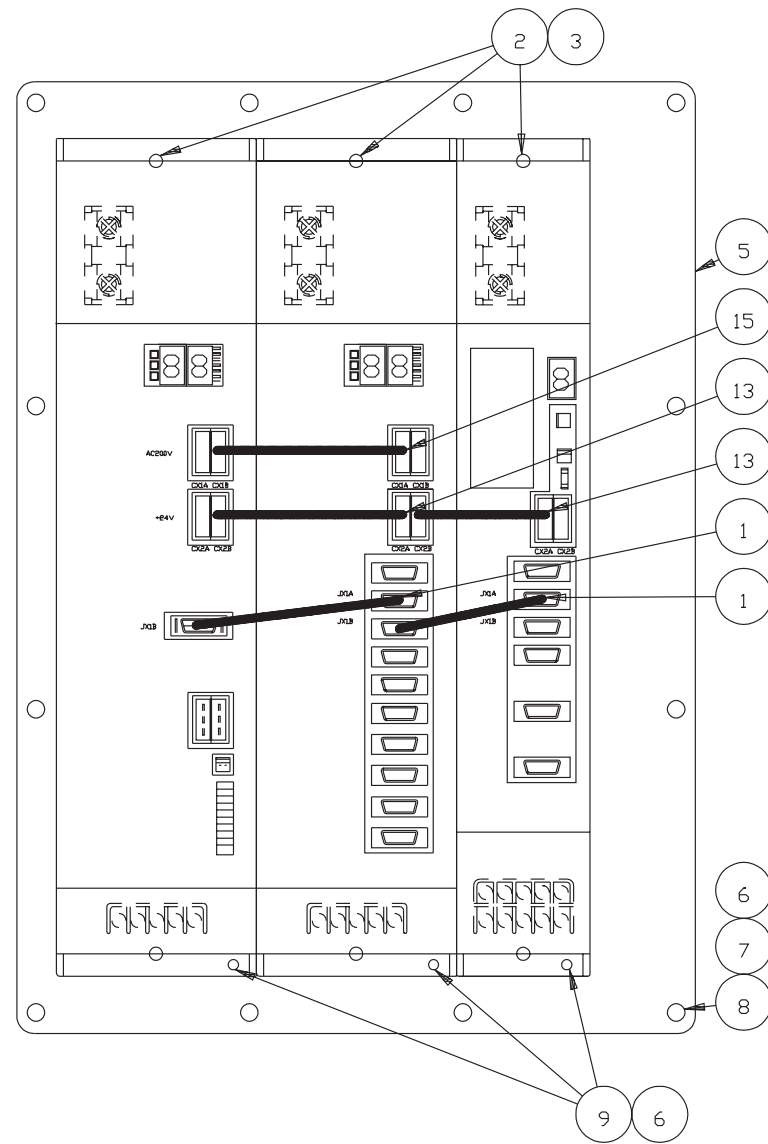
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
190	HG 0010224DB	1.0000	SWITCH, DP ON COOLANT
191	HG 001001902	1.0000	CONTACT, BLOCK
192	CL 000415841	1.0000	PANEL, ON-OFF
193	CL 000022144	1.0000	FACEPLATE,CONTROL HOUSING
194	CL 0010116	2.0000	GASKET
195	3 001088401	0.1000	ADHESIVE
196	MS 0303315	24.0000	SCREW, BUTTON HD. M3X.5X10MM
197	CL 0010522CE1	1.0000	LABEL, UPPER POWER CASE
198	CL 0010522CE2	1.0000	LABEL, LOWER POWER CASE
199	CL 0010522CE3	1.0000	LABEL, FLOOR POWER CASE
200	CL 0010522CE4	1.0000	LABEL, I/O CASE
201	CL 0010522CE5	1.0000	LABEL, CONTROL CASE
202	CL 0008220CE	1.0000	ELECTRICAL DIAGRAMS-CL-(CEMA
203	LD 0002927	1.0000	CABLE CHART, CL-CE
204	CL 0003011CEC	1.0000	POWER CASE CABLE PACKAGE
205	CL 0003279WPC	1.0000	POWER CASE WIRE PACKAGE
206	CL 0010115 T	1.0000	COVER, TERMINAL
208	CL 0012024CEDB	1.0000	DATA BASE, WIRE & CABLE

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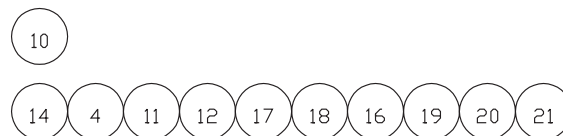
NAME POWER CASE ASSEMBLY PART NUMBER CL 0003279CE

Power Case Panel, Ball Screw Sub-Spindle / Lower Axis



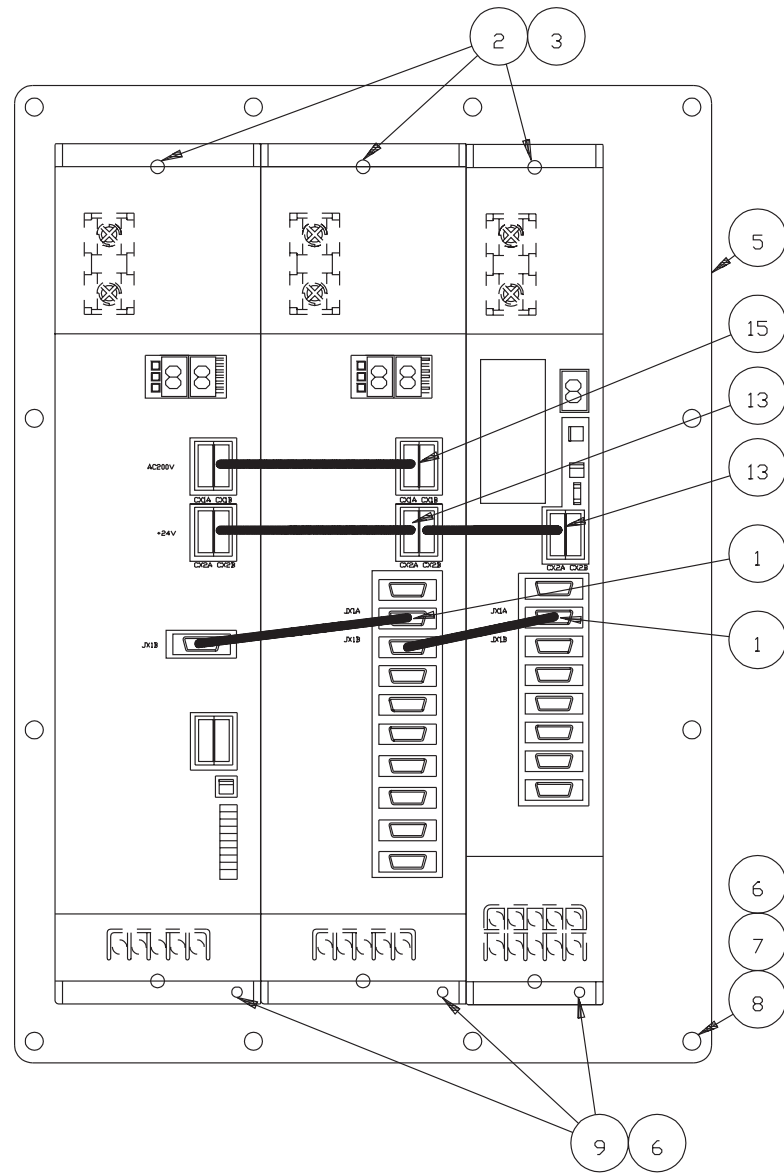
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SG 0003011JX1	2.0000	CABLE ASSY - JX1A-JX1B
2	MW 0183510	6.0000	WASHER, LOCK REG. M5 X .8 SC
3	MS 0303517	6.0000	SCREW, BUTTON HD. M5X.8X16MM
4	26 0009188 E	4.0000	TERM, #10 RING 5-6 AWG BLU
5	CL 000190407	1.0000	PLATE, (SS, LA, & LT) DRIVE MTG.
6	MW 0183610	15.0000	M6 REG. LOCKWASHER
7	MW 0103610	12.0000	WASHER, FLAT M6 X 1.0 STEEL
8	MS 0303617	12.0000	SCREW, BT. HD. M6X1.0 X 16MM
9	MS 0103616	3.0000	SCREW,SDC.HD.CAP M6X1.0X12MM
10	CL 0010522CE06	1.0000	LABEL, OPTION PANEL
11	CL 0003279WPLA	1.0000	WIRE PACKAGE, SS / LA OPT.
12	CL 0003011CELA	1.0000	CABLE PACKAGE, SS / LA OPT.
13	SG 0003011CX2	2.0000	CABLE ASSY - CX2A-CX2B
14	CL 0011857CE02	1.0000	METER, SPINDLE
15	SG 0003011CX1	1.0000	CABLE ASSY - CX1A-CX1B
16	MW 0263410	4.0000	WASHER, EXT. STAR M4
17	SG 001082104	1.0000	SUPPORT, CABLE BAR
18	MS 0303410	4.0000	SCREW, BT. HD. M4X.7,X 3MM
19	SG 000961014	3.0000	FUSE, GI, 22 X 58 MM, 32A
20	SG 001001704	1.0000	HOLDER, FUSE 3P 125A
21	18 00010016	1.0000	CONTACTOR, 30A

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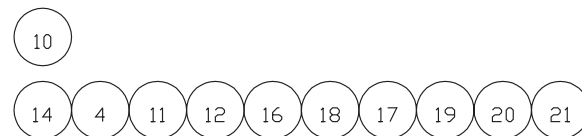
NAME
PANEL, B.S.
SUB SPINDLE/LOWER AXIS

PART NUMBER
CL 0003279BSCE



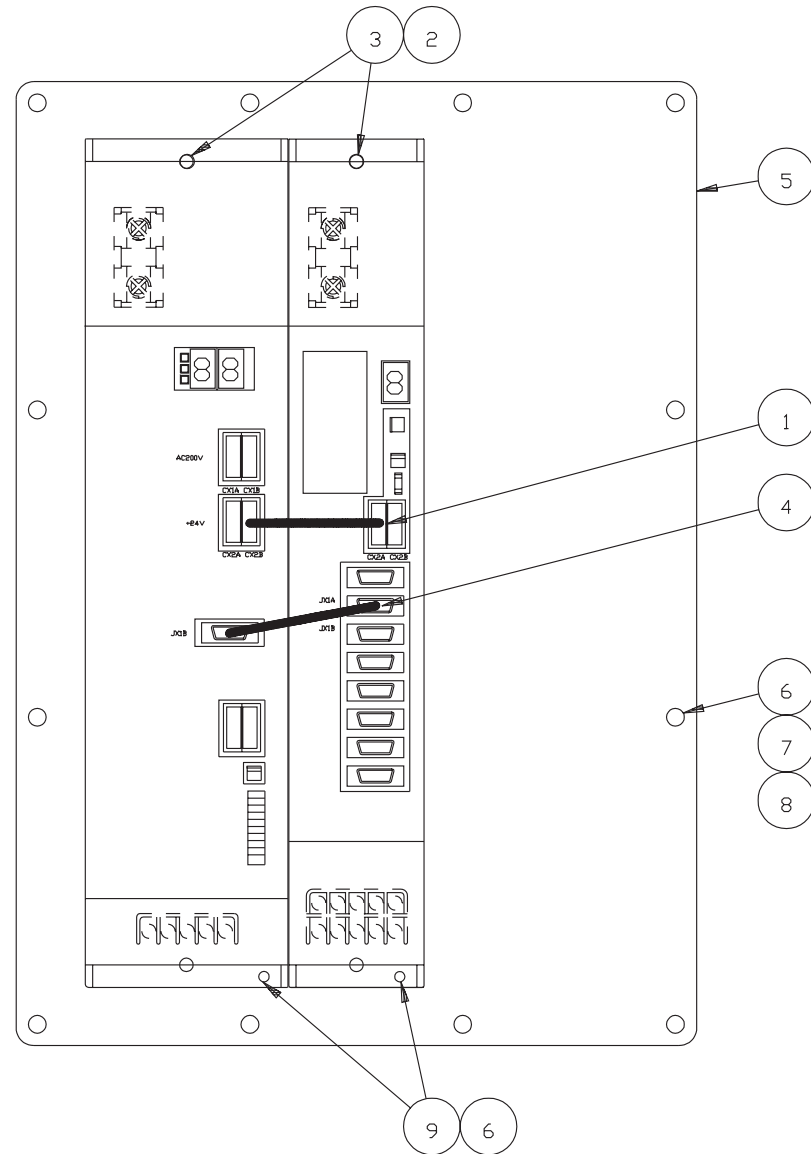
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SG 0003011JX1	2.0000	CABLE ASSY - JX1A-JX1B
2	MW 0183510	6.0000	WASHER, LOCK REG. M5 X .8 SC
3	MS 0303517	6.0000	SCREW, BUTTON HD. M5X.8X16MM
4	26 0009188 E	4.0000	TERM, #10 RING 5-6 AWG BLU
5	CL 000190408	1.0000	PLATE, SS/LA/LT DRIVE MTG.
6	MW 0183610	15.0000	M6 REG. LOCKWASHER
7	MW 0103610	12.0000	WASHER, FLAT M6 STEEL
8	MS 0303617	12.0000	SCREW, BT. HD. M6X1.0 X 16MM
9	MS 0103616	3.0000	SCREW,SDC.HD.CAP M6X1.0X12MM
10	CL 0010522CE06	1.0000	LABEL, OPTION PANEL
11	CL 0003279WPST	1.0000	WIRE PKG., SSPIN/LOW AXIS/LT
12	CL 0003011CEST	1.0000	CABLE PACKAGE-SUB SPIN/LA/LT
13	SG 0003011CX2	2.0000	CABLE ASSY - CX2A-CX2B
14	CL 0011857CE02	1.0000	METER, SUB-SPIN. LOAD
15	SG 0003011CX1	1.0000	CABLE ASSY - CX1A-CX1B
16	SG 001082104	1.0000	SUPPORT, CABLE BAR
17	MW 0263410	4.0000	WASHER, EXT. STAR M4
18	MS 0303410	4.0000	SCREW, BT. HD. M4X.7,X 3MM
19	SG 000961008	3.0000	FUSE, GI, 22 X 58 MM, 63A
20	SG 001001704	1.0000	HOLDER, FUSE 3P 125A
21	18 0001001601	1.0000	CONTACTOR, 30A

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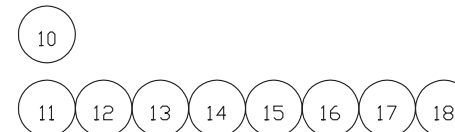
NAME: PANEL, B.S. SUB SPINDLE / LOWER AXIS/LIVE TOOLING
 PART NUMBER: CL 0003279BSLT

Power Case Panel, End-Working Turret



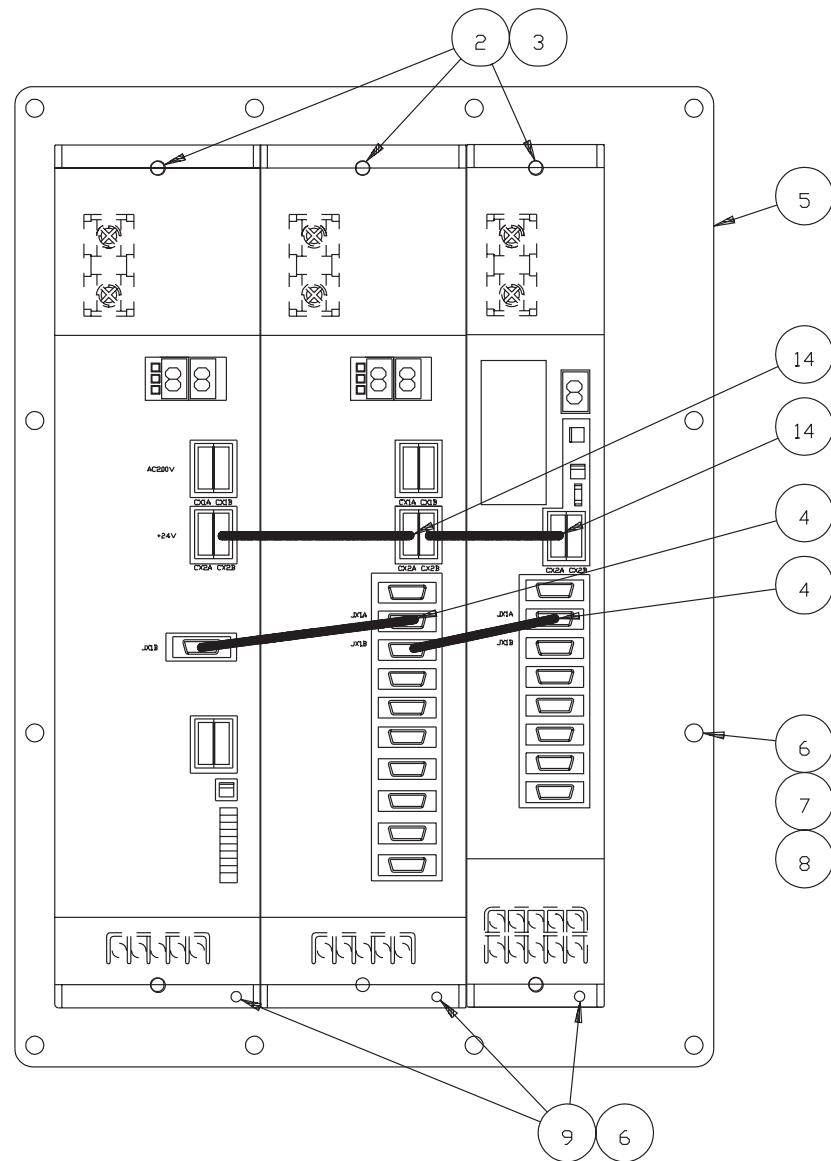
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SG 0003011CX2	1.0000	CABLE ASSEMBLY, CX2A-CX2B
2	MW 0183510	4.0000	WASHER, LOCK REG. M5 X .8 SC
3	MS 0303517	4.0000	SCREW, BUTTON HD. M5X.8X16MM
4	SG 0003011JX1	1.0000	CABLE ASSEMBLY, JX1A-JX1B
5	CL 000190405	1.0000	PLATE, <LT>-<RT> DRIVE MTG.
6	MW 0183610	14.0000	M6 REG. LOCKWASHER
7	MW 0103610	12.0000	WASHER, FLAT M6 X 1.0 STEEL
8	MS 0303617	12.0000	SCREW, BT. HD. M6X1.0 X 16MM
9	MS 0103616	2.0000	SCREW,SDC.HD.CAP M6X1.0X12MM
10	CL 0010522CE06	1.0000	LABEL, OPTION PANEL
11	CL 0003279WPRT	1.0000	WIRE PACKAGE, RAM TURRET OPT.
12	CL 0003011CERT	1.0000	CABLE PACKAGE, RAM TURRET OPT.
13	SG 001082104	1.0000	SUPPDRT, CABLE BAR
14	MS 0303410	4.0000	SCREW, BT. HD. M4X.7,X 3MM
15	MW 0263410	4.0000	WASHER, EXT. STAR M4
16	SG 000961014	3.0000	FUSE, GI, 22 X 58 MM, 32A
17	SG 001001704	1.0000	HOLDER, FUSE 3P 125A
18	18 00010016	1.0000	CONTACTOR, 30A

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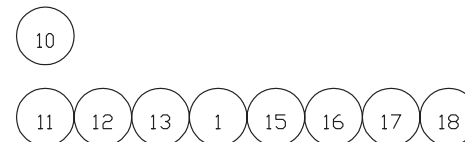
NAME
PANEL, RAM TURRET

PART NUMBER
CL 0003279RTCE



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	MS 0303410	4.0000	SCREW, BT. HD. M4X.7,X 3MM
2	MW 0183510	6.0000	WASHER, LOCK REG. M5 X .8 SC
3	MS 0303517	6.0000	SCREW, BUTTON HD. M5X.8X16MM
4	SG 0003011JX1	2.0000	CABLE ASSEMBLY, JX1A-JX1B
5	CL 000190407	1.0000	PLATE, (RT / LT) DRIVE MTG.
6	MW 0183610	15.0000	M6 REG. LOCKWASHER
7	MW 0103610	12.0000	WASHER, FLAT M6 X 1.0 STEEL
8	MS 0303617	12.0000	SCREW, BT. HD. M6X1.0 X 16MM
9	MS 0103616	3.0000	SCREW,SDC.HD.CAP M6X1.0X12MM
10	CL 0010522CE06	1.0000	LABEL, OPTION PANEL
11	CL 0003279WPRL	1.0000	WIRE PACKAGE, RT / LT OPT.
12	CL 0003011CERL	1.0000	CABLE PACKAGE, RT / LT OPT.
13	SG 001082104	1.0000	SUPPDRT, CABLE BAR
14	SG 0003011CX2	2.0000	CABLE ASSEMBLY, CX2A-CX2B
15	MW 0263410	4.0000	WASHER, EXT. STAR M4
16	SG 000961014	3.0000	FUSE, GI, 22 X 58 MM, 32A
17	SG 001001704	1.0000	HOLDER, FUSE 3P 125A
18	18 00010016	1.0000	CONTACTOR, 30A

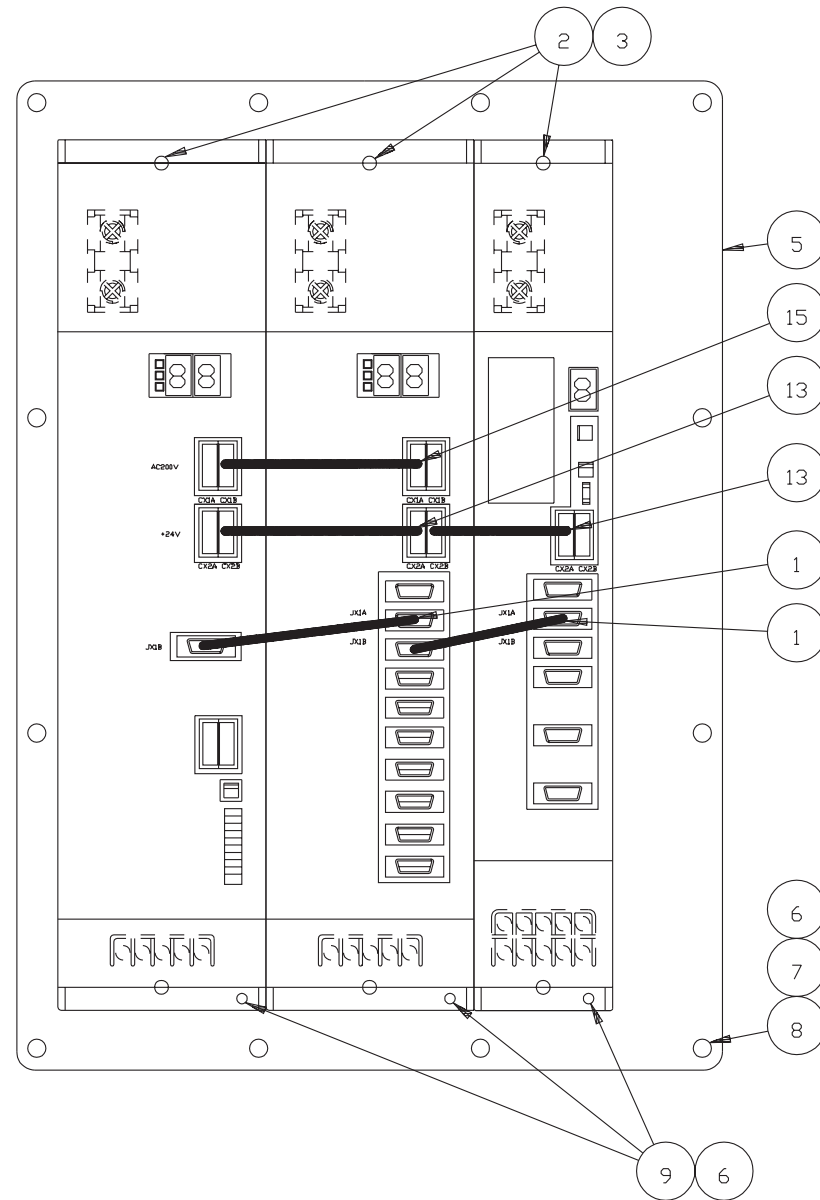
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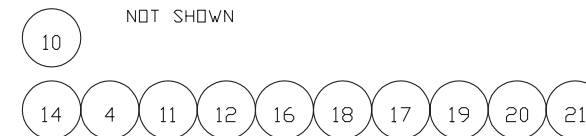
NAME
PANEL, RAM TURRET/
LIVE TOOLING

PART NUMBER
CL 0003279RTL

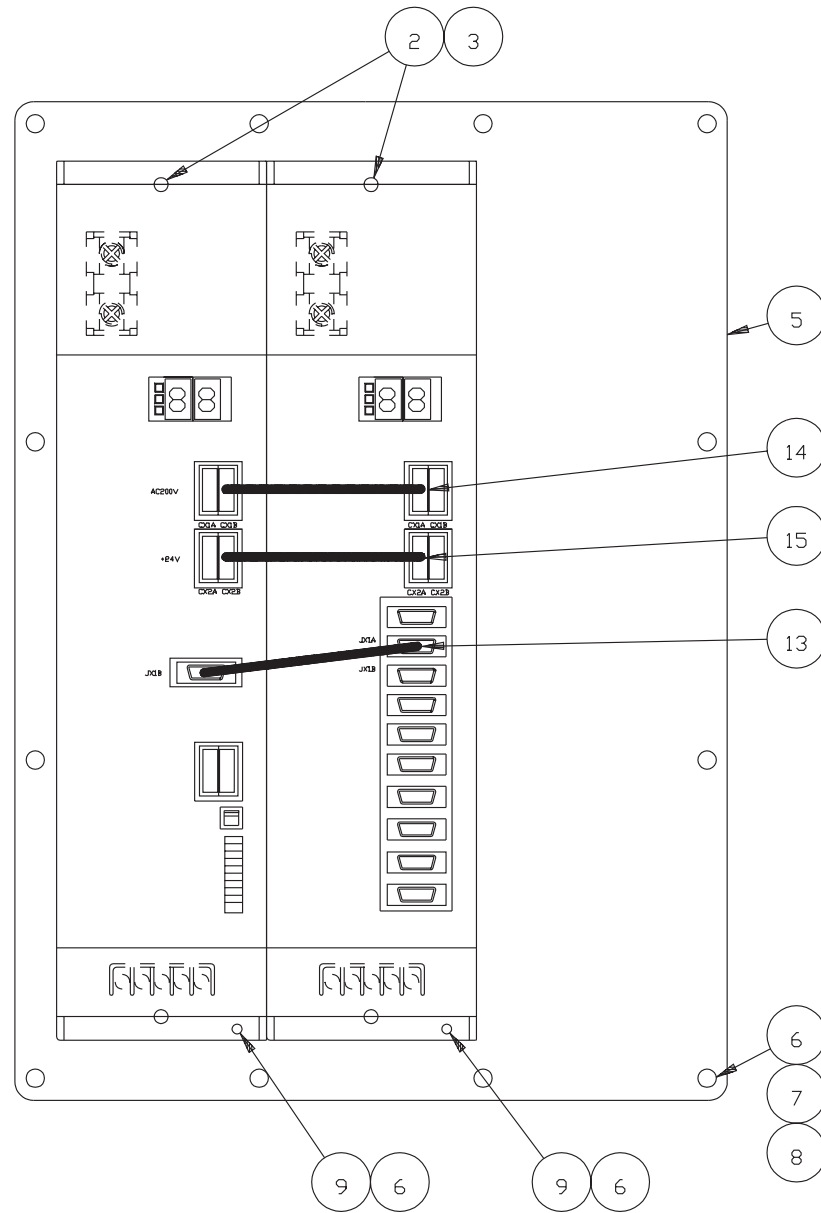
Power Case Panel, Hydraulic Sub-Spindle / Live Tooling



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SG 0003011JX1	2.0000	CABLE ASSEMBLY, JX1A-JX1B
2	MW 0183510	6.0000	WASHER, LOCK REG. M5 X .8 SC
3	MS 0303517	6.0000	SCREW, BUTTON HD. M5X.8X16MM
4	26 0009188 E	4.0000	TERM, #10 RING 5-6 AWG BLU
5	CL 000190407	1.0000	PLATE, (SS, LA, & LT) DRIVE MTG.
6	MW 0183610	15.0000	M6 REG. LOCKWASHER
7	MW 0103610	12.0000	WASHER, FLAT M6 X 1.0 STEEL
8	MS 0303617	12.0000	SCREW, BT. HD. M6X1.0 X 16MM
9	MS 0103616	3.0000	SCREW,SDC.HD.CAP M6X1.0X12MM
10	CL 0010522CE06	1.0000	LABEL, OPTION PANEL
11	CL 0003279WPH	1.0000	WIRE PACKAGE, SS / LT OPT.
12	CL 0003011CEH	1.0000	CABLE PACKAGE, SS / LT OPT.
13	SG 0003011CX2	2.0000	CABLE ASSEMBLY, CX2A-CX2B
14	CL 0011857CE02	1.0000	METER, SPINDLE
15	SG 0003011CX1	1.0000	CABLE ASSEMBLY, CX1A-CX1B
16	SG 001082104	1.0000	SUPPORT, CABLE BAR
17	MW 0263410	4.0000	WASHER, EXT. STAR M4
18	MS 0303410	4.0000	SCREW, BT. HD. M4X.7X 3MM
19	SG 000961014	3.0000	FUSE, GI, 22 X 58 MM, 32A
20	SG 001001704	1.0000	HOLDER, FUSE 3P 125A
21	18 00010016	1.0000	CONTACTOR, 30A

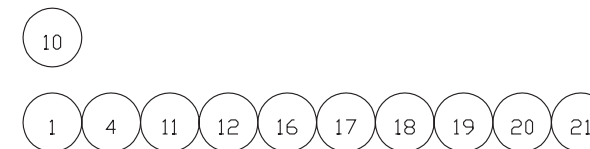


NAME: PANEL, SUB SPINDLE (HYD)/CL 0003279SSLT
 PART NUMBER: LIVE TOOLING



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	CL 0011857CE02	1.0000	METER, SPINDLE
2	MW 0183510	4.0000	WASHER, LOCK REG. M5 X .8 SC
3	MS 0303517	4.0000	SCREW, BUTTUN HD. M5X.8X16MM
4	Z6 0009188 E	1.0000	TERM, #10 RING 5-6 AWG BLU
5	CL 000190406	1.0000	PLATE, <SS HYD.> DRIVE MTG.
6	MW 0183610	14.0000	M6 REG. LOCKWASHER
7	MW 0103610	12.0000	WASHER, FLAT M6 X 1.0 STEEL
8	MS 0303617	12.0000	SCREW, BT. HD. M6X1.0 X 16MM
9	MS 0103616	2.0000	SCREW,SQC.HD.CAP M6X1.0X12MM
10	CL 0010522CE06	1.0000	LABEL, OPTION PANEL
11	CL 0003279WPSS	1.0000	WIRE PACKAGE, SUB SPINDLE OPT.
12	CL 0003011CESS	1.0000	CABLE PACKAGE, SUB SPINDLE OPT.
13	SG 0003011JX1	1.0000	CABLE ASSEMBLY, JX1A-JX1B
14	SG 0003011CX1	1.0000	CABLE ASSEMBLY, CX1A-CX1B
15	SG 0003011CX2	1.0000	CABLE ASSEMBLY, CX2A-CX2B
16	SG 001082104	1.0000	SUPPDRT, CABLE BAR
17	MS 0303410	4.0000	SCREW, BT. HD. M4X.7,X 3MM
18	MW 0263410	4.0000	WASHER, EXT. STAR M4
19	SG 000961014	3.0000	FUSE, GI, 22 X 58 MM, 32A
20	SG 001001704	1.0000	HOLDER, FUSE 3P 125A
21	18 00010016	1.0000	CONTACTOR, 30A

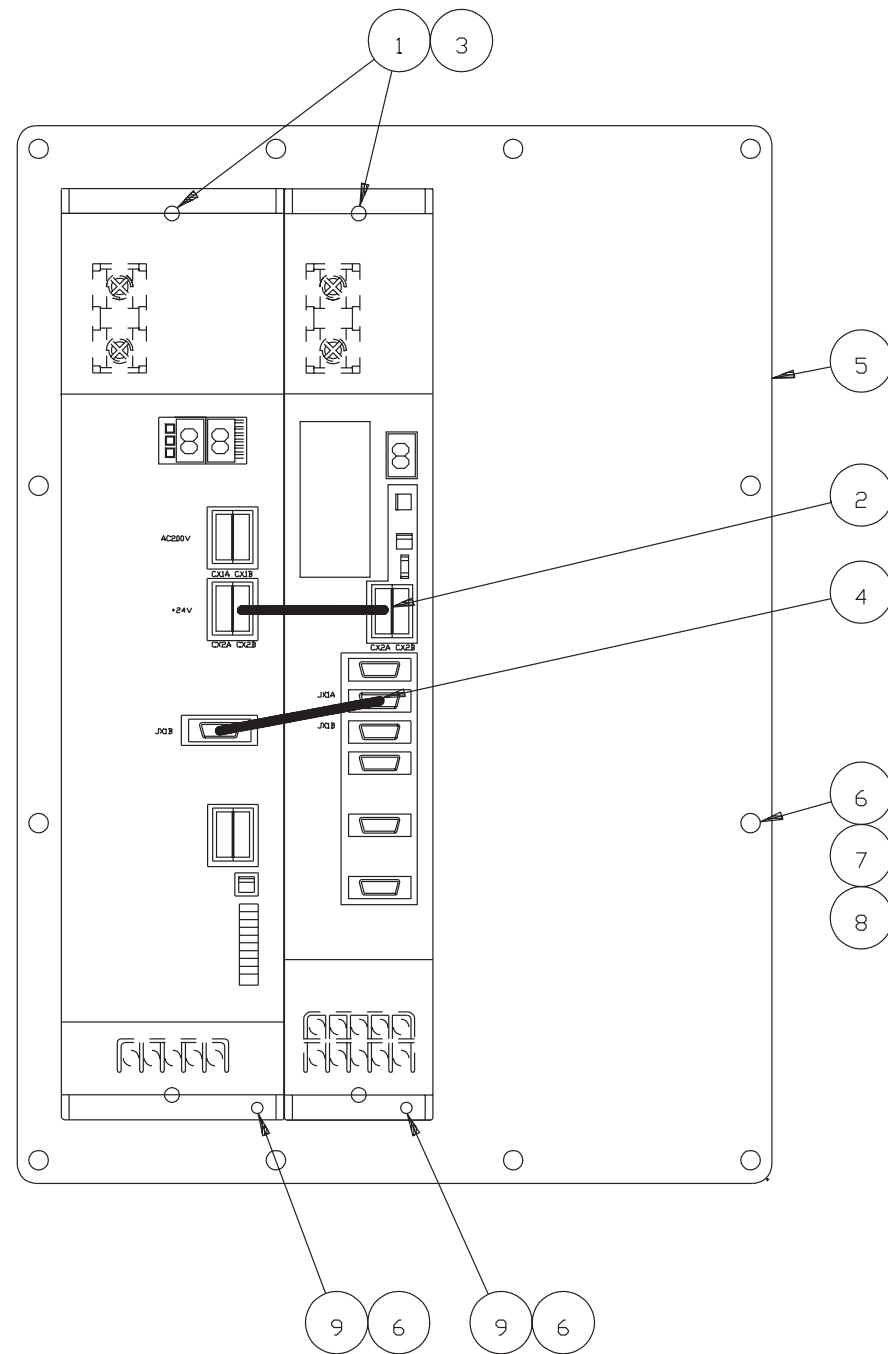
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NAME
PANEL,
SUB SPINDLE <HYD>

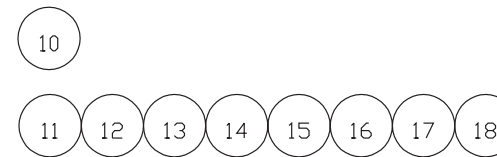
PART NUMBER
CL 0003279SSCE

Power Case Panel, Live Tooling



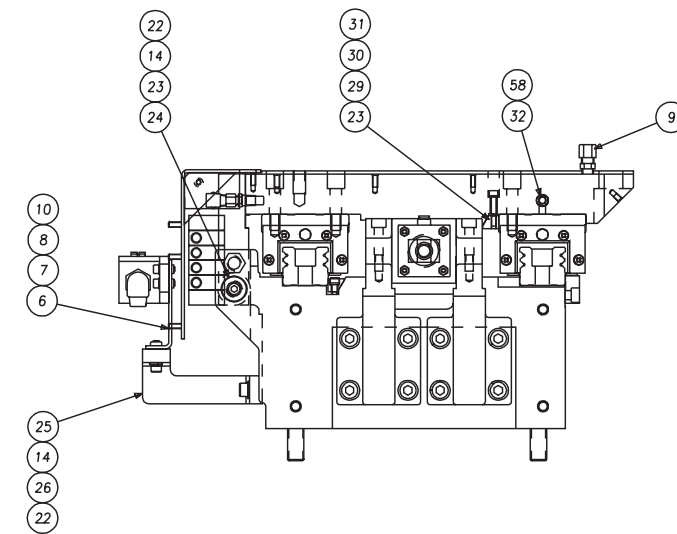
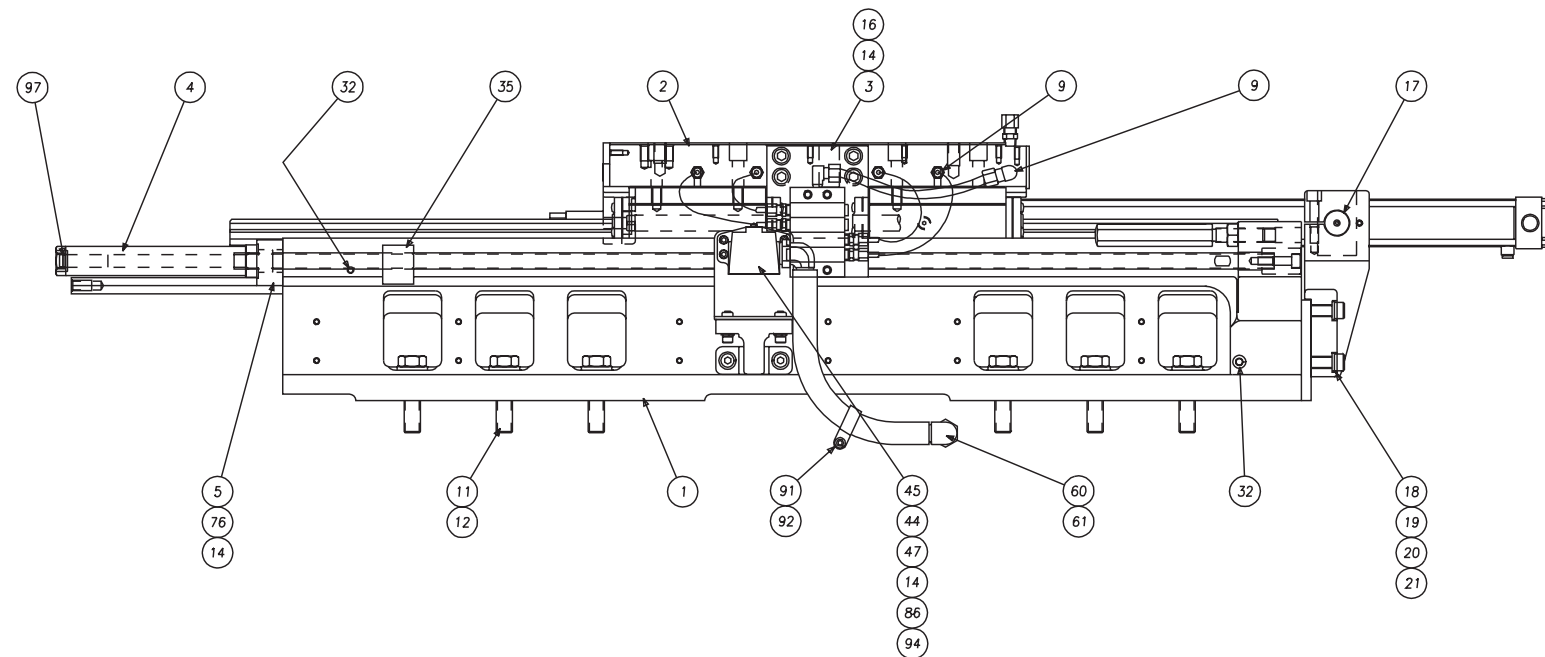
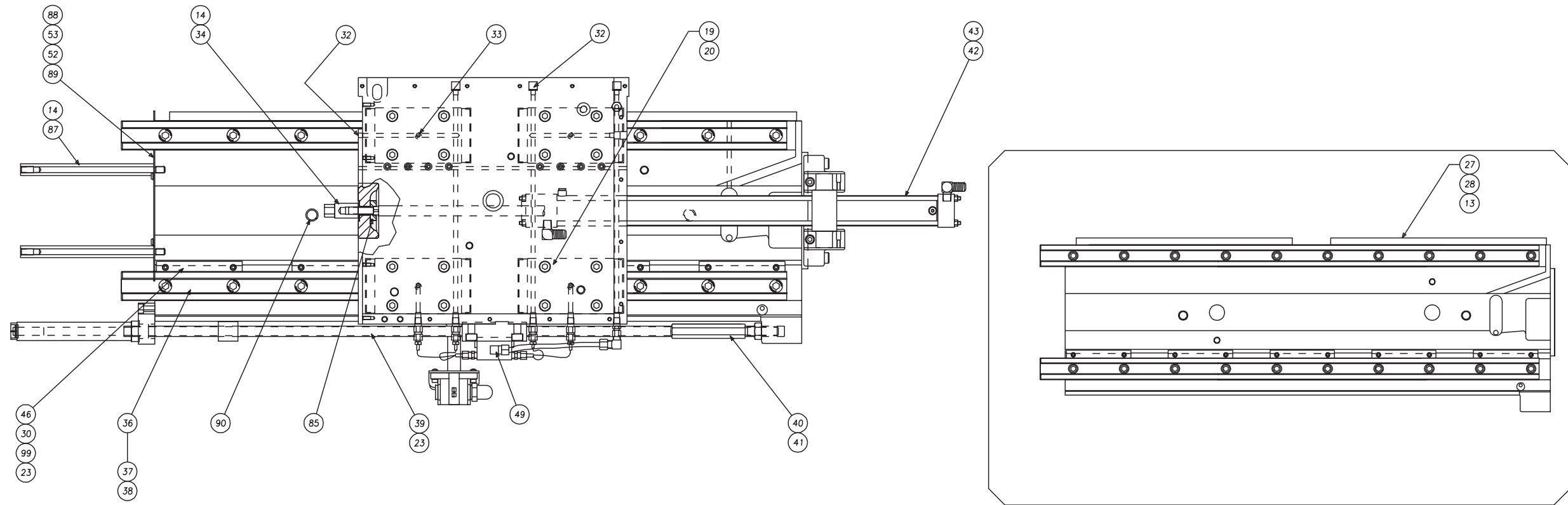
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	MW 0183510	4.0000	WASHER, LOCK REG. M5 X .8 SC
2	SG 0003011CX2	1.0000	CABLE ASSY - CX2A-CX2B
3	MS 0303517	4.0000	SCREW, BUTTUN HD. M5X.8X16MM
4	SG 0003011JX1	1.0000	CABLE ASSY - JX1A-JX1B
5	CL 000190405	1.0000	PLATE, <LT> DRIVE MOUNTING
6	MW 0183610	14.0000	M6 REG. LOCKWASHER
7	MW 0103610	12.0000	WASHER, FLAT M6 X 1.0 STEEL
8	MS 0303617	12.0000	SCREW, BT. HD. M6X1.0 X 16MM
9	MS 0103616	2.0000	SCREW,SDC.HD.CAP M6X1.0X12MM
10	CL 0010522CE06	1.0000	LABEL, OPTION PANEL
11	CL 0003279WPLT	1.0000	WIRE PACKAGE, LIVE TOOLING
12	CL 0003011CELT	1.0000	CABLE PACKAGE-LIVE TOOLING
13	SG 001082104	1.0000	SUPPORT, CABLE BAR
14	MS 0303410	4.0000	SCREW, BT. HD. M4X.7,X 3MM
15	MW 0263410	4.0000	WASHER, EXT. STAR M4
16	SG 000961014	3.0000	FUSE, GI, 22 X 58 MM, 32A
17	SG 001001704	1.0000	HOLDER, FUSE 3P 125A
18	18 00010016	1.0000	CONTACTOR, 30A

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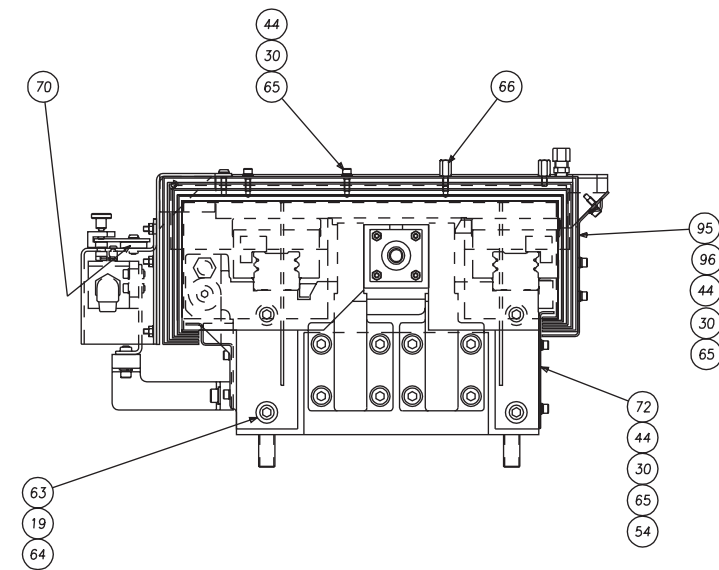
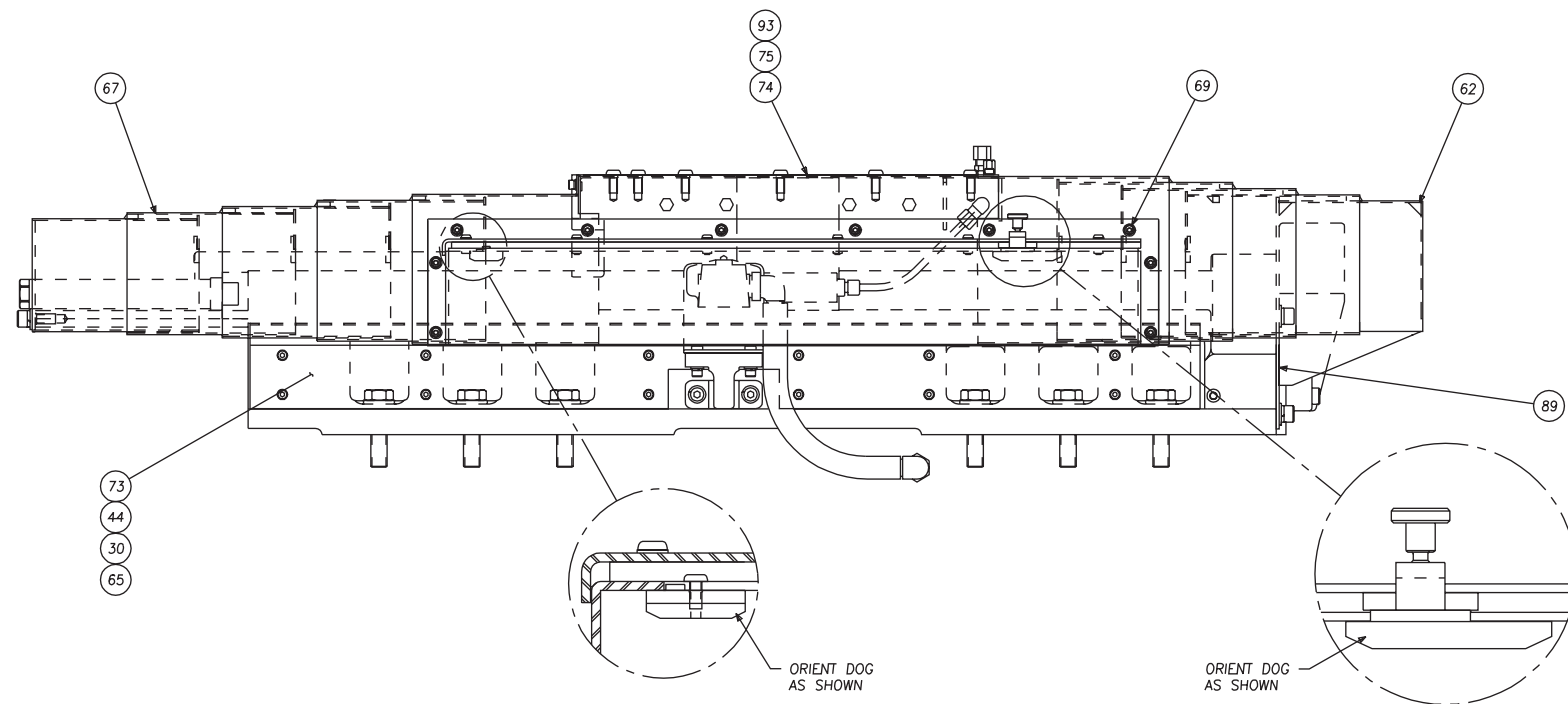
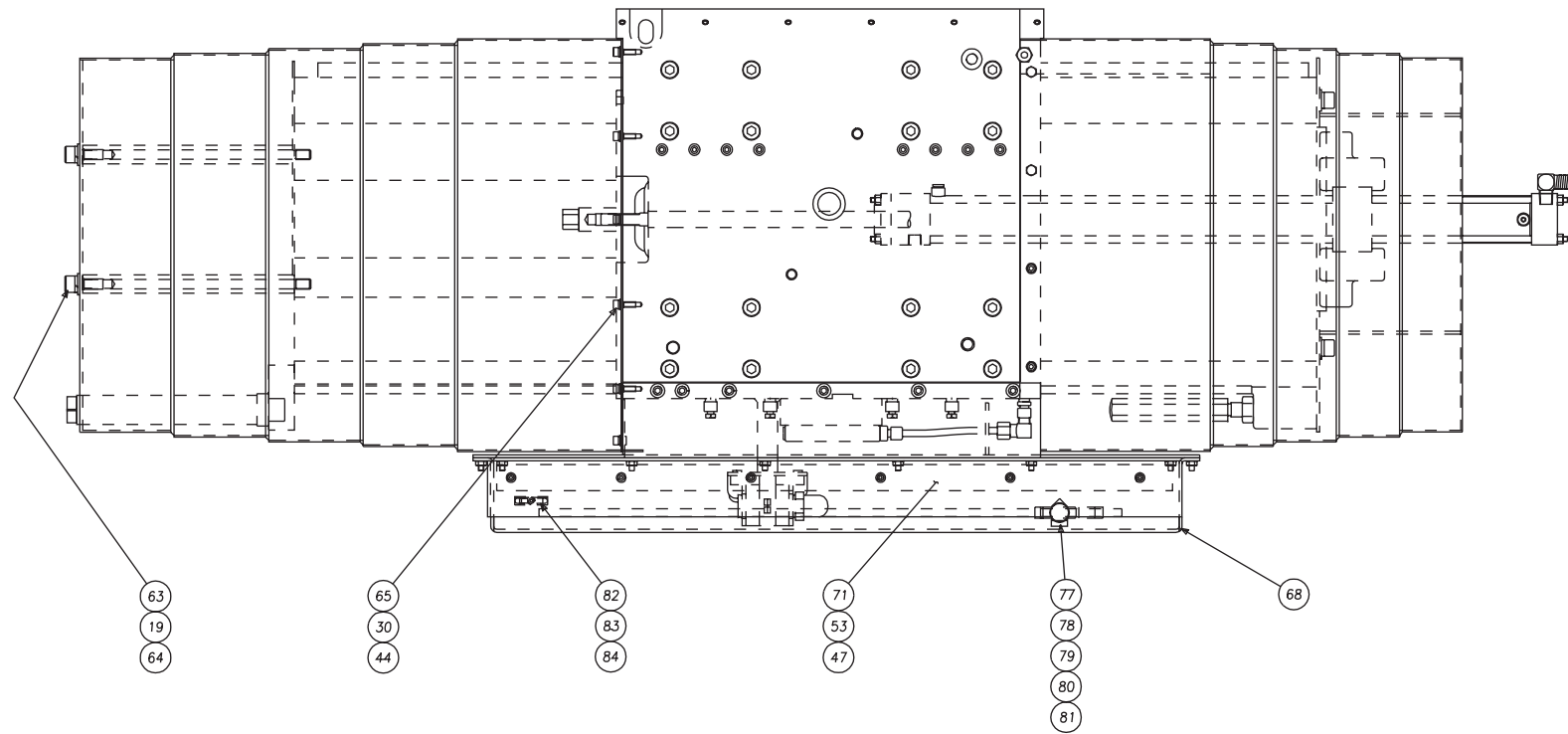
NAME
PANEL, LIVE TOOLING

PART NUMBER
CL 0003279LTCE



DATE 2nd OP-SPINDLE
PART NUMBER CLA-0000574-SS
SUB BASE ASSEMBLY
SHEET 1 of 3

Sub-Base Assembly, Hydraulic Sub-Spindle



NAME 2nd OP-SPINDLE ASSEMBLY
PART NUMBER CLA-0000574-SS
SHEET 2 of 3

99	MS-0103518	10	SCREW, M5 X .8 X 20 SHC
98	CL-0008316-E	2	EXTENSION, LINEAR RAIL
97	50-0008231-02	1	SNAP, RING
96	CL-0010116-66	1	GASKET, CARRIAGE
95	CLA-0010215-39	1	COVER, CARRIAGE
94	20A-0003011-03	20	CABLE 3 CONDUCTOR
93	MW-0263810	6	M8 WASHER, STAR-BLACK
92	MS-0303618	1	M6 SCREW, BUTT HD x 20mm
91	AH-0009623	1	CLAMP, CABLE
90	CL-0004629	2	PIN, DOWEL
89	HG-0010884	1.1	SEALANT
88	MS-0303515	4	M5 SCREW, BUTT HD x 10mm
87	CL-0011938	2	SUPPORT, WAY-COVER
86	HG-0009207-11	1	FITTING, PG11 90 DEG
85	CL-0002840	1	WASHER, PISTON
84	MW-0263410	1	M4 WASHER, STAR
83	MS-0303414	1	M4 SCREW, BUTT HD x 8mm
82	CSB-0000571	1	DOG, LIMIT SWITCH
81	NC-0010884-01	.02	ADHESIVE, LOCTITE #222
80	MS-0103414	2	M4 SCREW, SKHD mm
79	CL-0000571-02	1	DOG, LIMIT SWITCH
78	CS-0009623-02	1	CLAMP, DOG
77	CSA-0009471-01	1	THUMB SCREW
76	MS-0103821	2	M8 SCREW, SKHD CP x 35mm
75	MS-0303817	6	M8 SCREW, BUTT HD x 16mm
74	CL-0010215-70	1	COVER, LUBE SUB-SPINDLE
73	CL-0010215-F	1	COVER, FRONT SUB SPINDLE
72	CL-0010215-R	1	COVER, REAR SUB-SPINDLE
71	CL-0010215-24	1	COVER, DOG SUB SPINDLE
70	CL-0010481-05	1	SPACER, COVER SUB SPINDLE
69	MN-0283510	10	M5 NUT, FLANGE
68	CL-0010215-25	1	COVER, SLOT SUB-SPINDLE
67	CL-0010115-SS-F	2	WAY COVER, SUB SPINDLE-FR
66	SG-0010190-09	2	STAND-OFF, COLLET CLOSER
ITEM	PART NUMBER	QTY	DESCRIPTION

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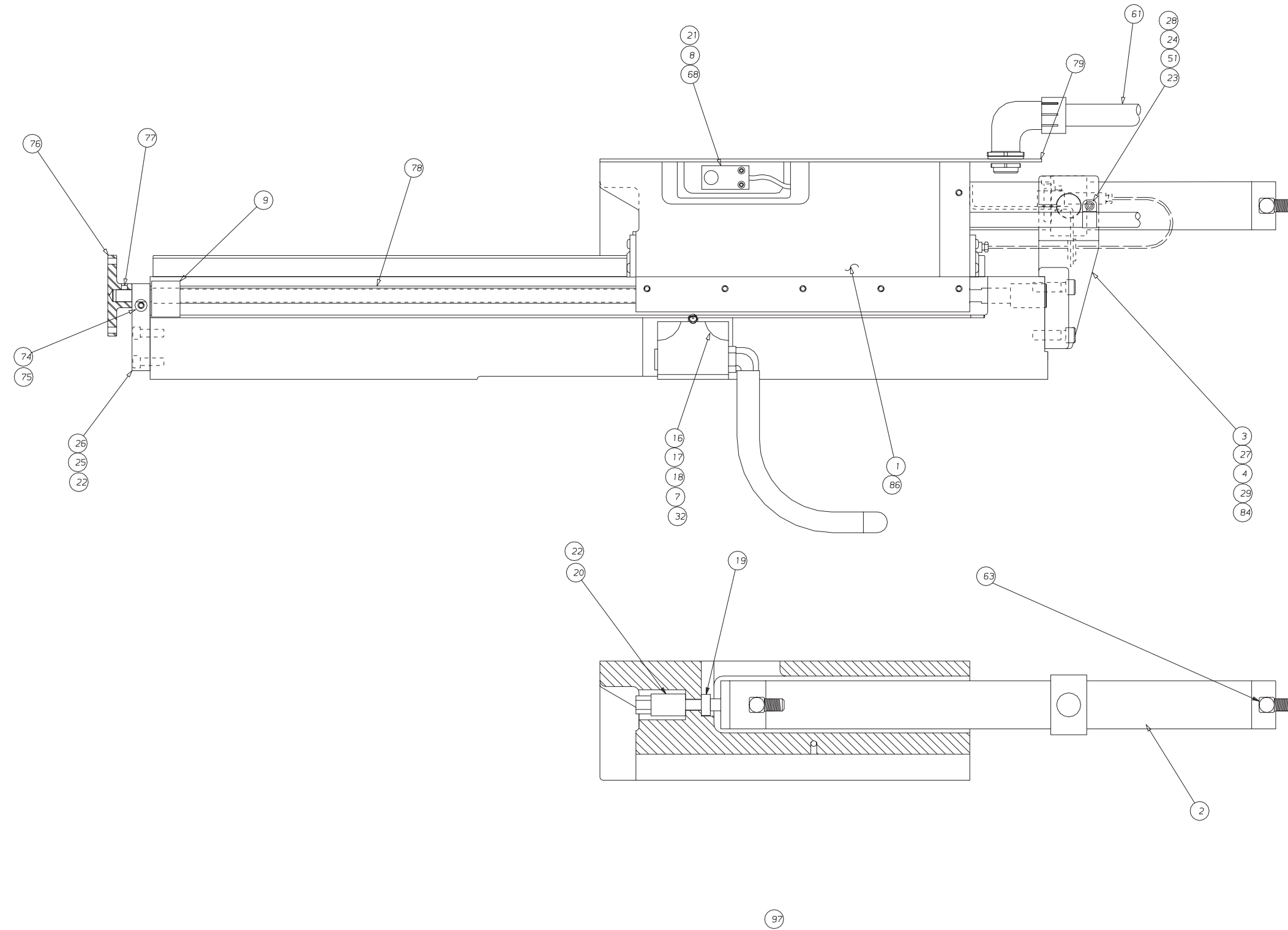
98

65	MS-0103516	44	M5 SCREW, SKHD CP x 12mm
64	MW-0104010	6	M10 WASHER, FLAT
63	MS-0104019	6	M10 SCREW, SKHD CP x 25mm
62	CL-0010115-SS-R	2	WAY COVER, SUB SPINDLE-RE
61	HG-0010229-03	1	CONDUIT
60	HG-0009207-13	1	FITTING, PG13.5 90 DEG
58	S-0010700-06	1	PLUG, LEE (.468)
54	GE-0010884	.1	SEALER
53	MW-0263510	10	M5 WASHER, STAR-BLACK
52	CL-0004990-22	1	STOP, LUBE
49	MW-0103410	4	M4 WASHER, FLAT
47	MS-0103517	10	M5 SCREW, SKHD CP x 16mm
46	CL-0006481-SS	5	GIB, GUIDE RAIL
45	CS-0010224-09	1	SWITCH
44	MW-0103510	48	M5 WASHER, FLAT
43	AD-0010785-06	2	CONNECTOR, 90 DEG
42	CL-0002917-03	1	CYLINDER, SUB-SPINDLE
41	MN-0114410	1	M14 NUT, HEX
40	CL-0000580-01	1	BOLT, STOP
39	CL-0011104-04	1	SHAFT, ADJUSTING
38	CL-0010331	20	PLUG, LINEAR GUIDE RAIL
37	MS-0104222	20	M12 SCREW, SKHD CP x 40mm
36	CLA-0008316-08	1	LINEAR WAYS, Z2-AXIS
35	CLA-0000580	1	STOP
34	CL-0000492-04	1	NUT, PISTON
33	OR-0000406	4	O-RING
32	S-0010700-07	7	PLUG, LEE
31	MS-0103520	8	M5 SCREW, SKHD CP x 30mm
30	MW-0193510	62	M5 WASHER, LOCK
29	CL-0006481	2	GIB, TAKE UP
28	MW-0193810	10	M8 WASHER, LOCK
27	CL-0006481-C	2	CLAMP, LINEAR GUIDE
26	MW-0103810	2	M8 WASHER, FLAT
25	CS-0011081-03	1	MOUNT, SWITCH
24	CL-0011104-01	1	BUSHING
23	CS-0010994	.4	GREASE
22	MS-0103820	3	M8 SCREW, SKHD CP x 30mm
21	MS-0103822	2	M8 SCREW, SKHD CP x 40mm
20	MS-0104022	24	M10 SCREW, SKHD CP x 40mm
19	MW-0194010	30	M10 WASHER, LOCK
18	CLA-0011348	2	BRACKET, CYLINDER MOUNT
17	VS-0010440	.01	LUBRICANT (ANTI-SEIZE)
16	MS-0104021	4	M10 SCREW, SKHD CP x 35mm
14	NC-0010884	2.13	ADHESIVE, LOCTITE #242
13	MS-0103819	10	M8 SCREW, SKHD CP x 25mm
12	CL-0002840-02	12	M16 WASHER, FLAT-HARDENED
11	MS-0294627	12	M16 SCREW, HEX HD x 65mm
10	MS-0103619	2	M6 SCREW, SKHD CP x 25mm
9	SB-0010884-S	.07	SEALANT, HYDRAULIC
8	MW-0193610	2	M6 WASHER, LOCK
7	MW-0103610	2	M6 WASHER, FLAT
6	CL-0004990-21	1	BRACKET, LIMIT SWITCH
5	CL-0010446	1	BRACKET, STOP
4	CL-0009938-01	1	BUSHING, LOCK
3	CL-0011454-02	1	STOP, SOLID
2	CL-0000574-SB	1	SUB SPINDLE, SUB-BASE
1	CL-0000262-SS	1	BED, SUB SPINDLE
ITEM	PART NUMBER	QTY	DESCRIPTION

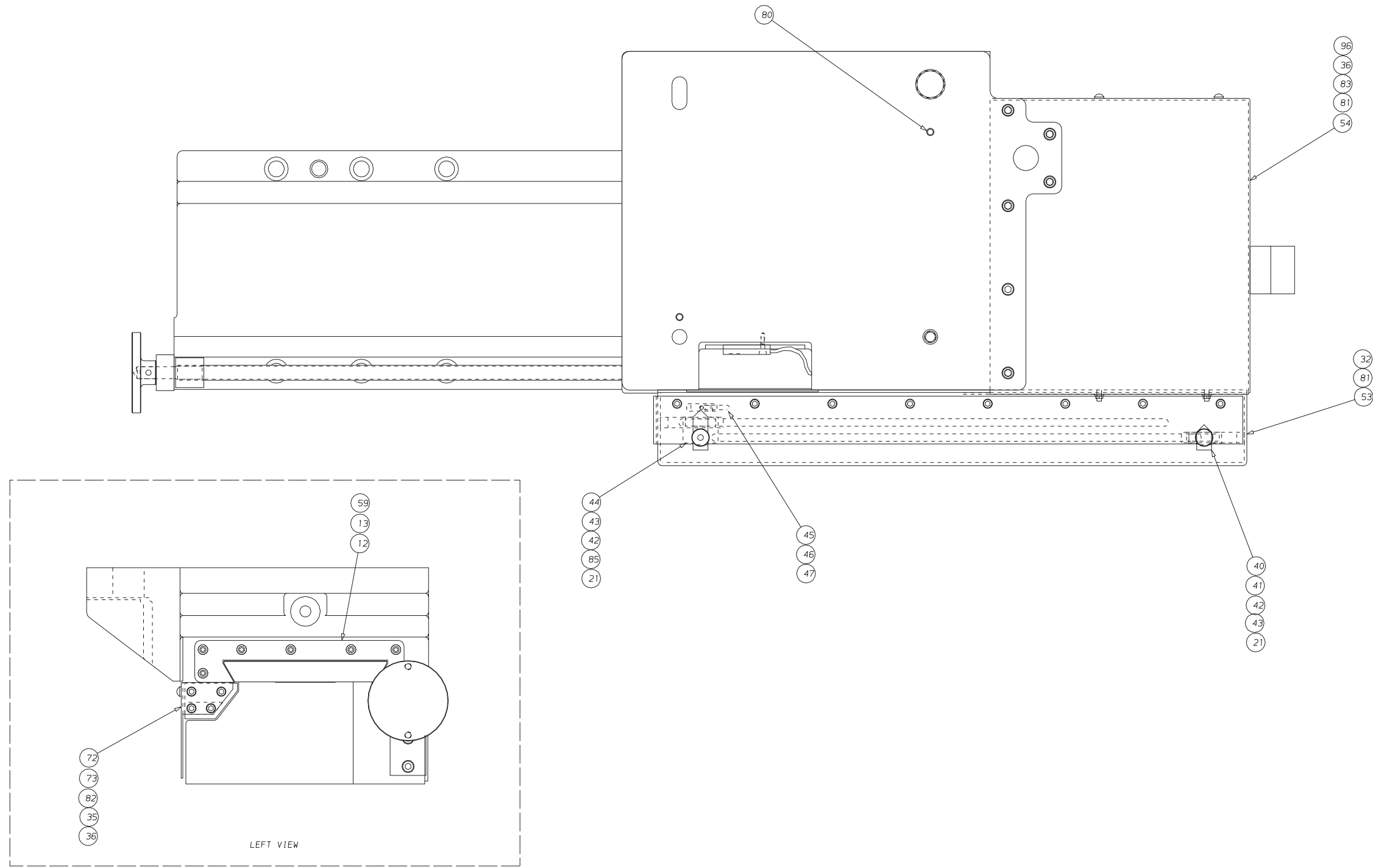
NAME
2nd OP-SPINDLE
ASSEMBLY

PART NUMBER
CLA-0000574-SS
SHEET 3 of 3

Sub-Base Assembly, Tailstock

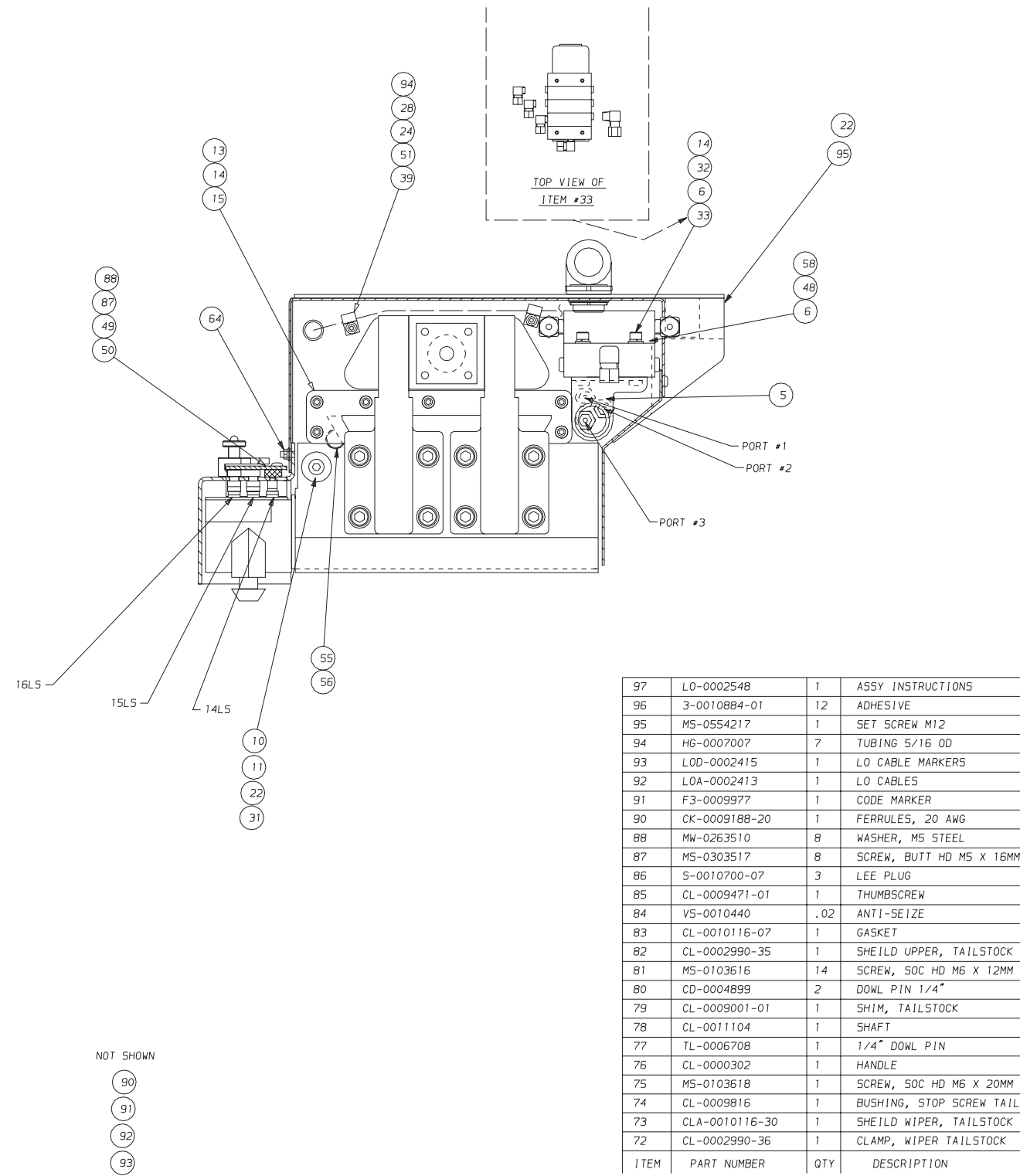


NAME SUBBASE ASSEMBLY (FRONT VIEW) PART NUMBER CLA0000574 A SHEET 1 of 3



NAME SUBBASE ASSEMBLY (TOP VIEW) PART NUMBER CLA0000574 A SHEET 2 of 3

Sub-Base Assembly, Tailstock

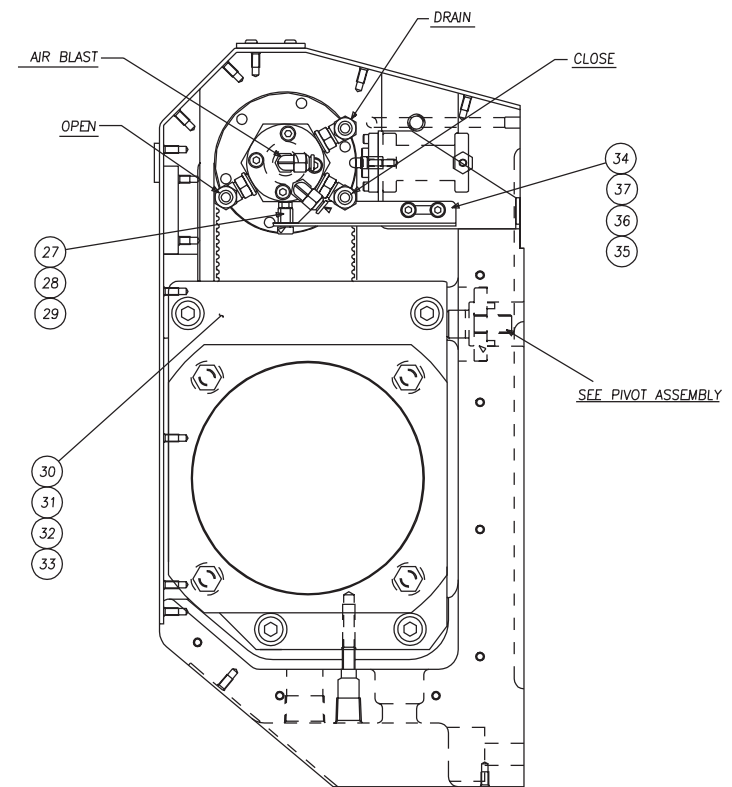
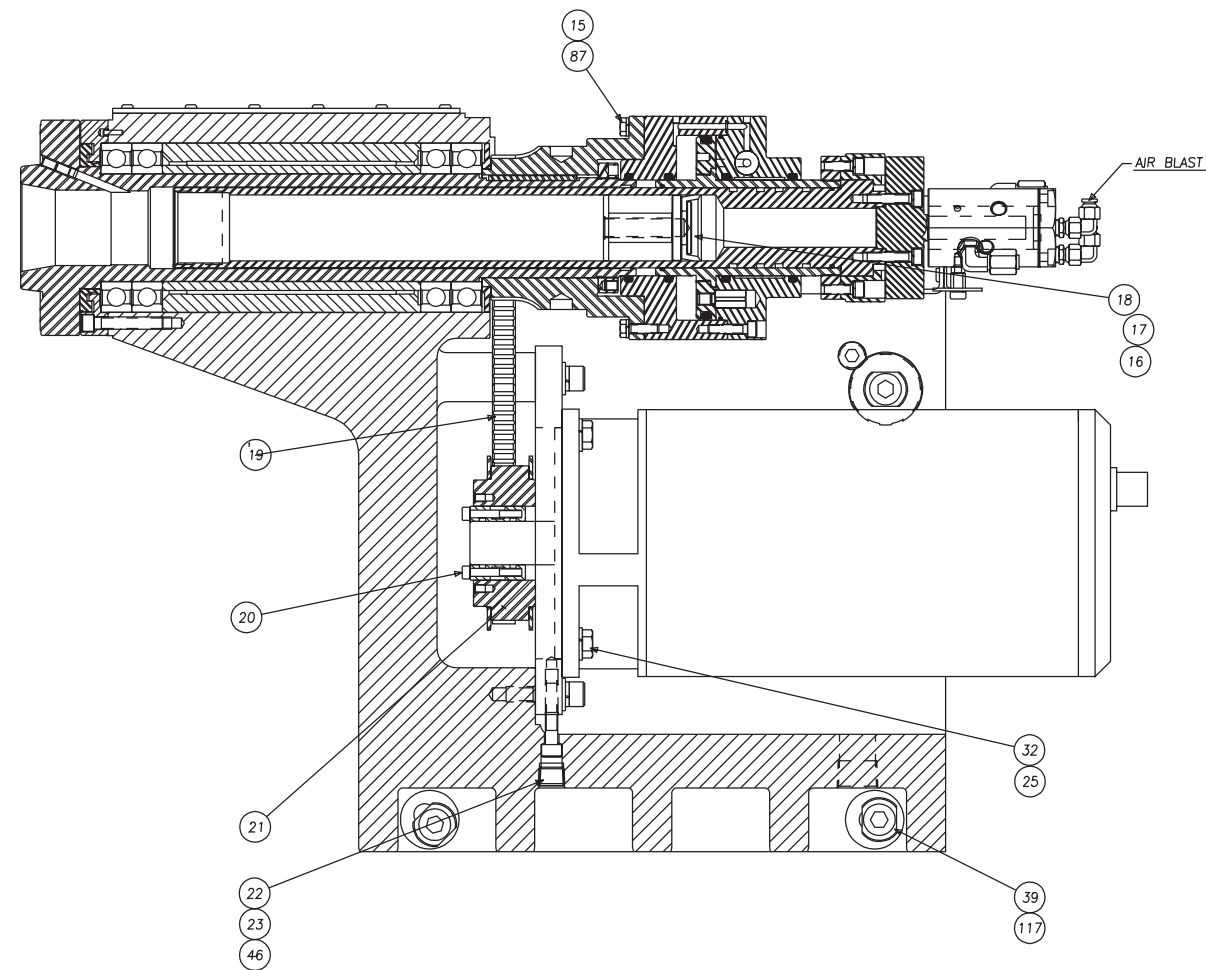
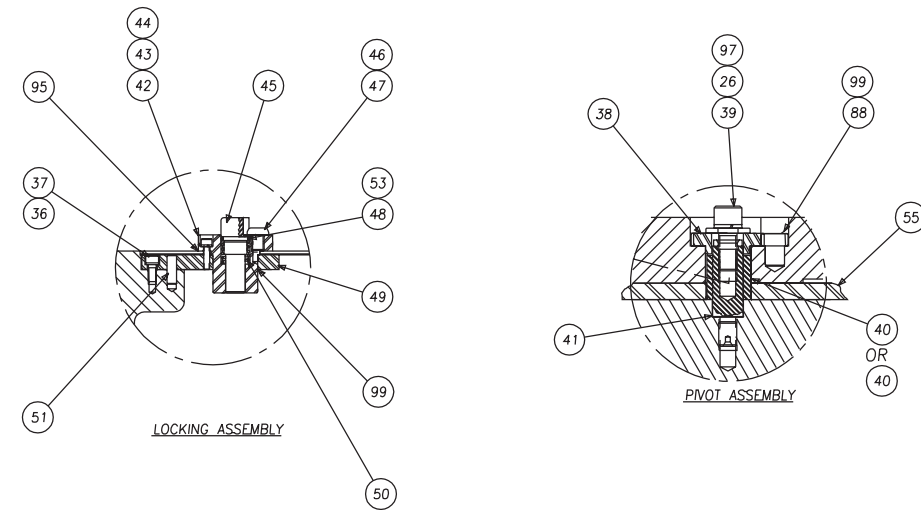
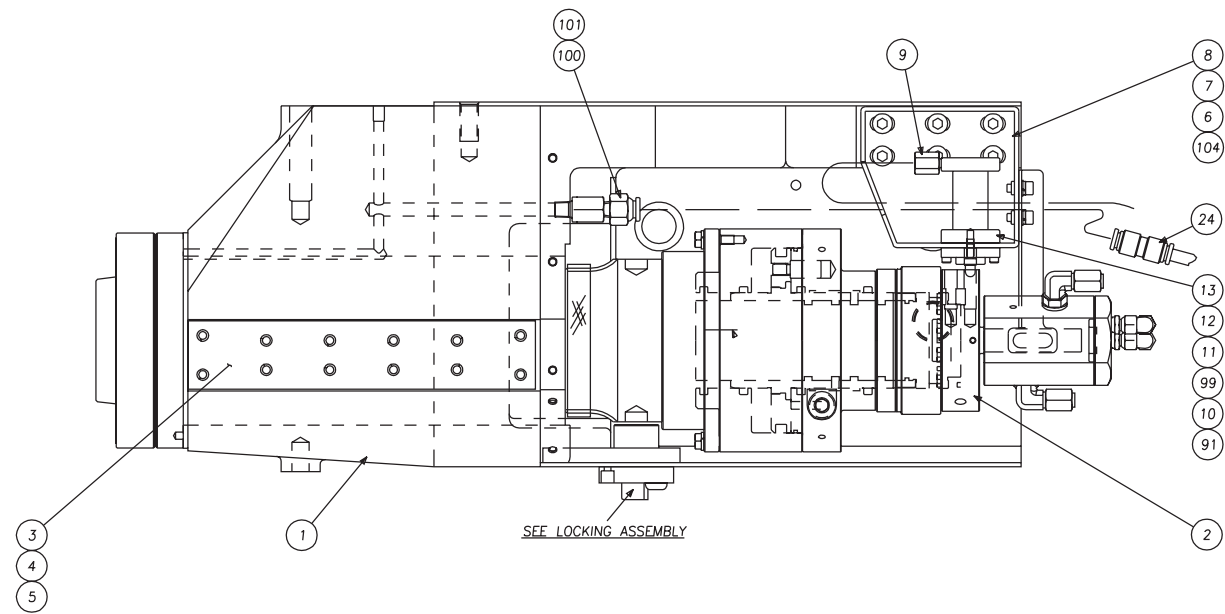


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 90
 91
 92
 93

ITEM	PART NUMBER	QTY	DESCRIPTION
97	L0-0002548	1	ASSY INSTRUCTIONS
96	3-0010884-01	12	ADHESIVE
95	MS-0554217	1	SET SCREW M12
94	HG-0007007	7	TUBING 5/16 OD
93	L0D-0002415	1	L0 CABLE MARKERS
92	L0A-0002413	1	L0 CABLES
91	F3-0009977	1	CODE MARKER
90	CK-0009188-20	1	FERRULES, 20 AWG
88	MW-0263510	8	WASHER, M5 STEEL
87	MS-0303517	8	SCREW, BUTT HD M5 X 16MM
86	S-0010700-07	3	LEE PLUG
85	CL-0009471-01	1	THUMBSCREW
84	V5-0010440	.02	ANTI-SEIZE
83	CL-0010116-07	1	GASKET
82	CL-0002990-35	1	SHIELD UPPER, TAILSTOCK
81	MS-0103616	14	SCREW, SOC HD M6 X 12MM
80	CD-0004899	2	DOWL PIN 1/4"
79	CL-0009001-01	1	SHIM, TAILSTOCK
78	CL-0011104	1	SHAFT
77	TL-0006708	1	1/4" DOWL PIN
76	CL-0000302	1	HANDLE
75	MS-0103618	1	SCREW, SOC HD M6 X 20MM
74	CL-0009816	1	BUSHING, STOP SCREW TAILS
73	CLA-0010116-30	1	SHIELD WIPER, TAILSTOCK
72	CL-0002990-36	1	CLAMP, WIPER TAILSTOCK

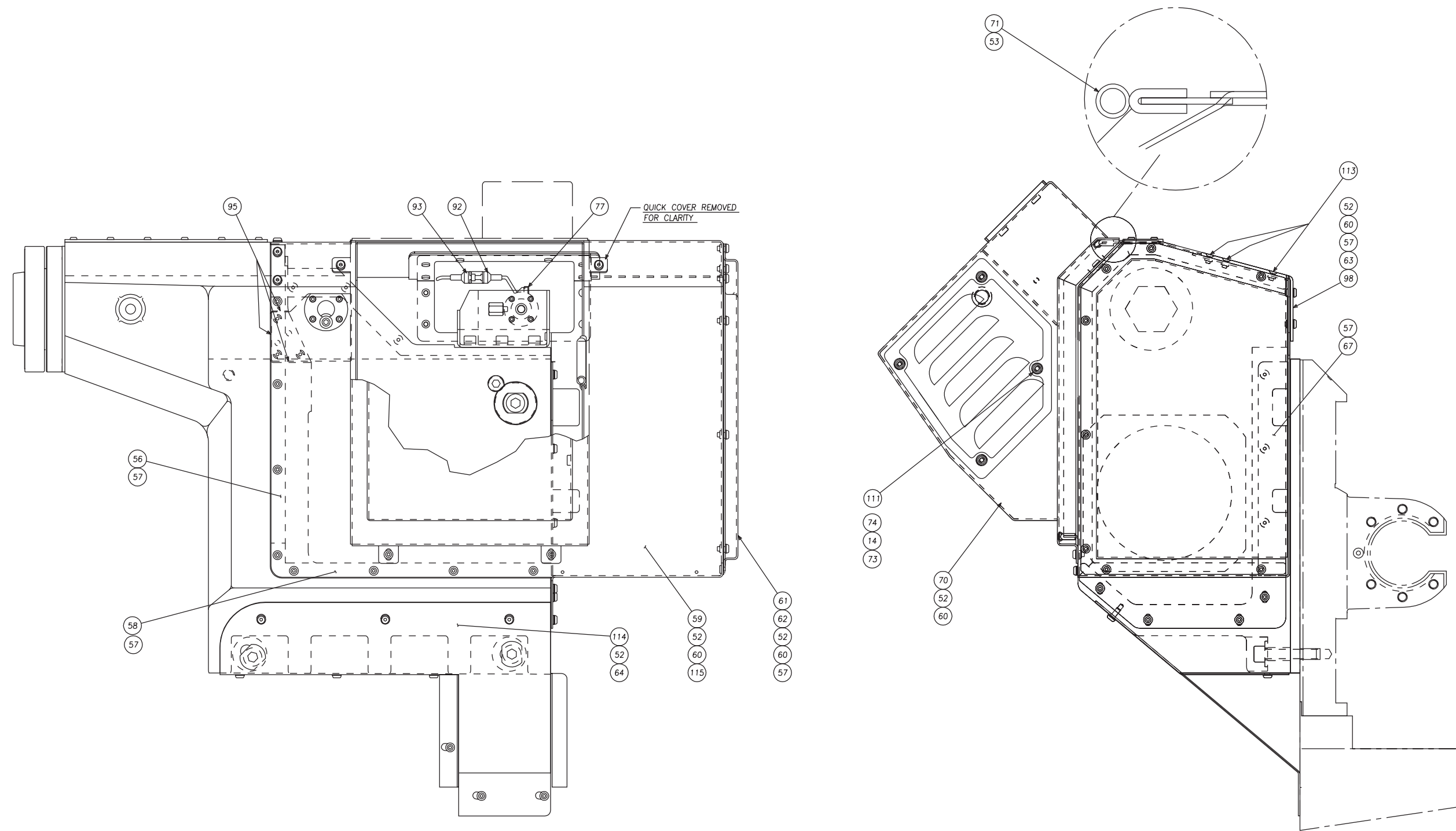
ITEM	PART NUMBER	QTY	DESCRIPTION
68	CLA001022403	1	SWITCH, PROXIMITY
64	MN-0283510	2	NUT, FLANGE M5
63	AD-0010785-06	2	CONNECTOR, 90 DEG.
61	HG-0010229-02	3.84	CONDUIT, 3/4"
59	CL-0003990-01	1	GUARD, WIPER
58	MW-0103410	2	WASHER, FLAT M4
56	AH-0007633	1	ASSY, CARRIAGE GIB
55	HM-0006160	2	SCREW, GIB
54	CL-0010115-28	1	COVER, REAR TAILSTOCK
53	CLA-0010115-27	1	COVER, L.S. DOGS
51	MS-0303516	3	SCREW, BUTT HD M5 X 12MM
50	CL-0010115-26	1	COVER, DOG
49	CL-0010481-04	1	SPACER, COVER
48	MW-0193410	2	WASHER, LOCK M4
47	MW-0263410	1	WASHER, EXT. STAR M4
46	MS-0303414	1	SCREW, BUTTON HEAD
45	C5B-0000571	1	DOG, LIMIT SWITCH
44	CL-0009623-03	1	CLAMP, DOG
43	MS-0103414	4	M4-.7 X 8MM CAP SCREW
42	CL-0000571-02	2	DOG, LIMIT SWITCH
41	CSA-0009471-01	1	THUMBSCREW
40	C5-0009623-02	1	CLAMP, DOG
39	CH-0009623-02	2	CLAMP, CABLE 5/16
36	MW-0263610	20	WASHER, M6 STAR
35	MS-0303615	8	SCREW, BUTT HD M6 X 10MM
33	CL-0003990-86	1	BRACKET, LUBE TANK
32	MW-0193610	8	WASHER, LOCK
31	C5-0010994	.01	GREASE
29	MW-0184010	8	WASHER, FLAT M10
28	MW-0103510	3	WASHER, FLAT M5
27	MS-0103822	2	SCREW, SOC HD M8 X 40MM
26	MS-0103819	2	M8 - 1.25 X 25MM CAP SCRE
25	CL-0010215-09	1	BRACKET
24	MW-0183510	3	WASHER, LOCK
23	CF-0009623	1	CLAMP, 5/8
22	NC-0010884	5.999999	LOCTITE 242
21	NC-0010848-01	.06	LOCTITE 222
20	CLA-0000492-04	1	NUT, PISTON
19	CL-0002840	1	WASHER, PISTON
18	HG-0009207-13	2	FITTING, PG13.5 90 DEG
17	MS-0103619	2	SCREW, SOC HD M6 X 25MM
16	CL-0003650	1	SWITCH, TAILSTOCK
15	NC-0008050	1	WIPER FOR CARRIAGE
14	MW-0103610	9	WASHER, FLAT
13	MS-0303617	14	M6-1.0 X 16MM BUTTON HD S
12	HCB-0008050	1	WIPER
11	MS-0103820	1	SCREW, SOC HD M8 X 30MM
10	CL-0011104-01	1	BUSHING
9	CL-0000580	1	STOP
8	MS-0103416	2	SCREW, SOC HD M4 X 12MM
7	HG-0010229-03	1	CONDUIT
6	MS-0103419	4	SCREW, SOC HD M4 X 25MM
5	CN-0009532-04	1	GROMMET
4	MS-0104022	8	SCREW, SOC HD M10 X 40MM
3	CLA-0011348	2	BRACKET, CYLINDER MOUNT
2	CL-0002917-P	1	CYLINDER, TAILSTOCK
1	CL-0000574	1	SUBBASE, TAILSTOCK

NAME: SUBBASE ASSEMBLY RIGHT VIEW
 PART NUMBER: CL40000574 A
 SHEET: 3 of 3



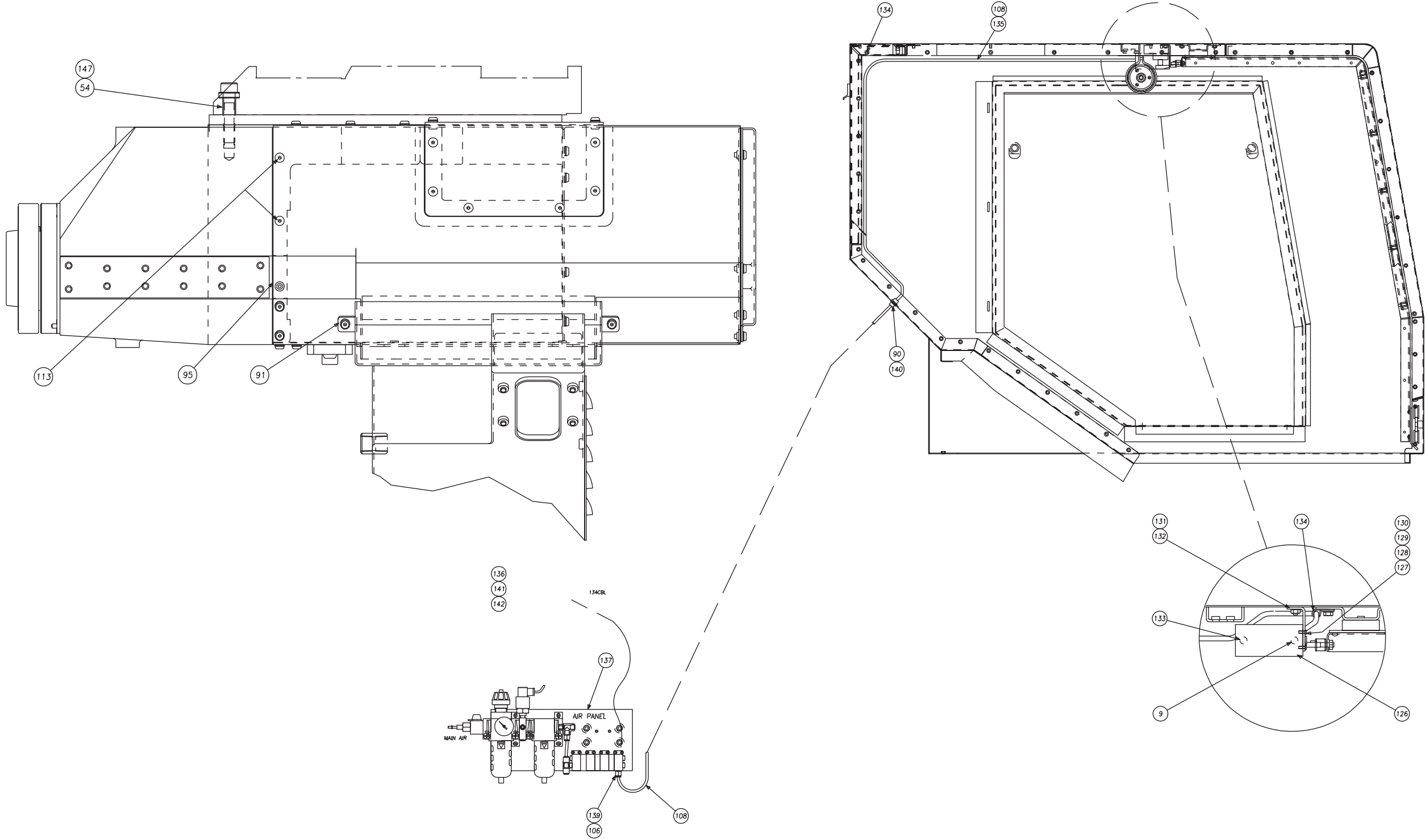
NAME SUB-SPINDLE ASSEMBLY BALL SCREW DRIVEN PART NUMBER CL-000004-BS SHEET 1 OF 5

Sub-Spindle Assembly, Ball Screw



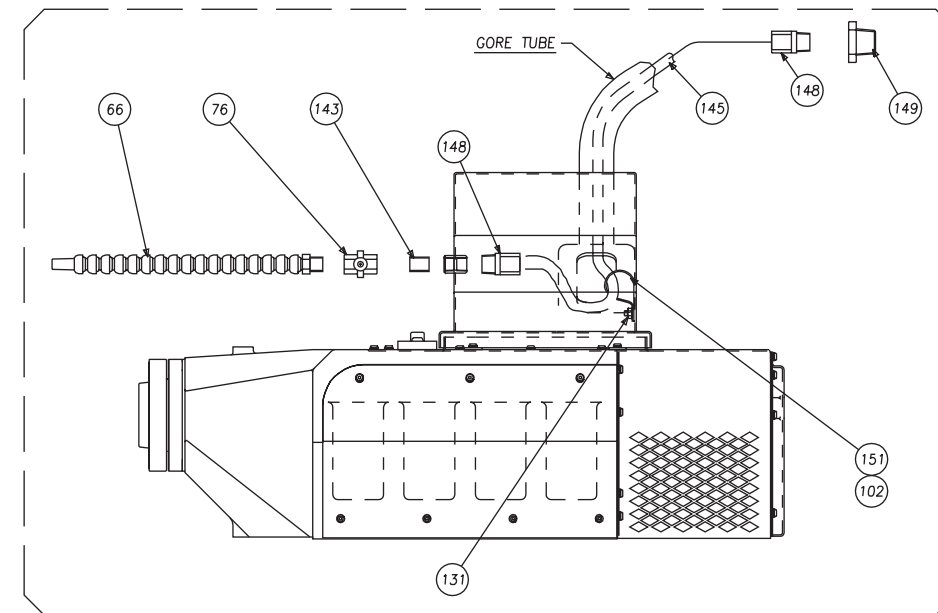
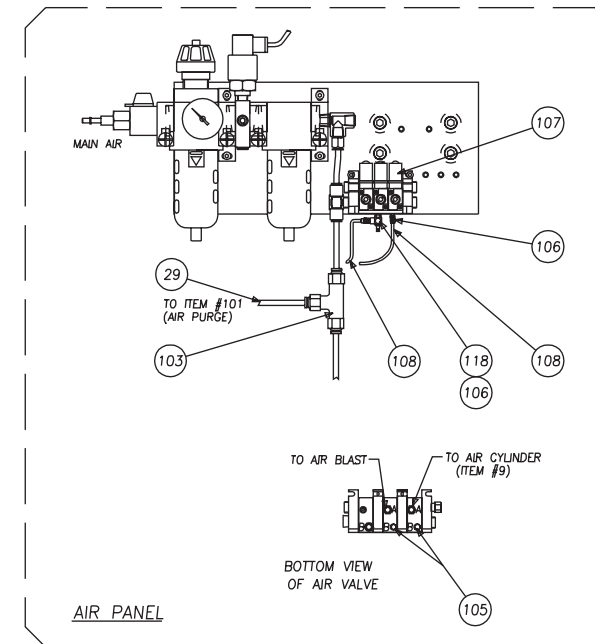
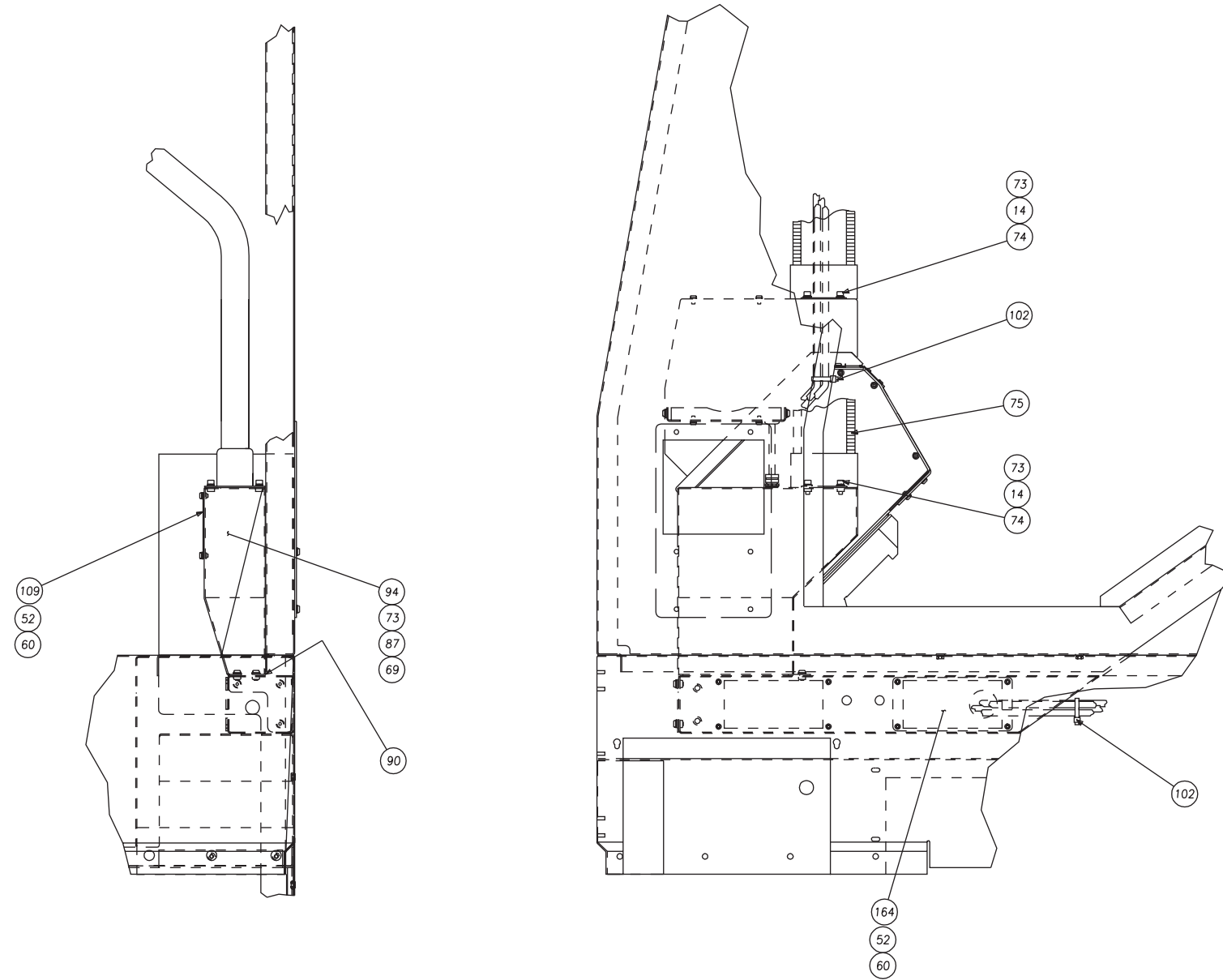
NAME
SUB-SPINDLE ASSEMBLY
BALL SCREW DRIVEN

PART NUMBER
CL-0000004-BS
SHEET 2 of 5

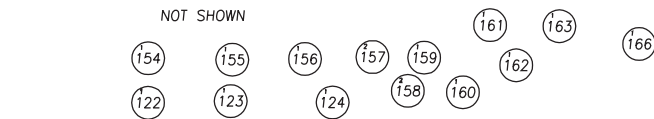


NAME: SUB-SPINDLE ASSEMBLY BALL SCREW DRIVEN
PART NUMBER: CL 0000004BS
SHEET: 3 of 5

Sub-Spindle Assembly, Ball Screw



NAME SUB-SPINDLE ASSEMBLY BALL SCREW DRIVEN
 PART NUMBER CL-000004-BS
 SHEET 4 of 5



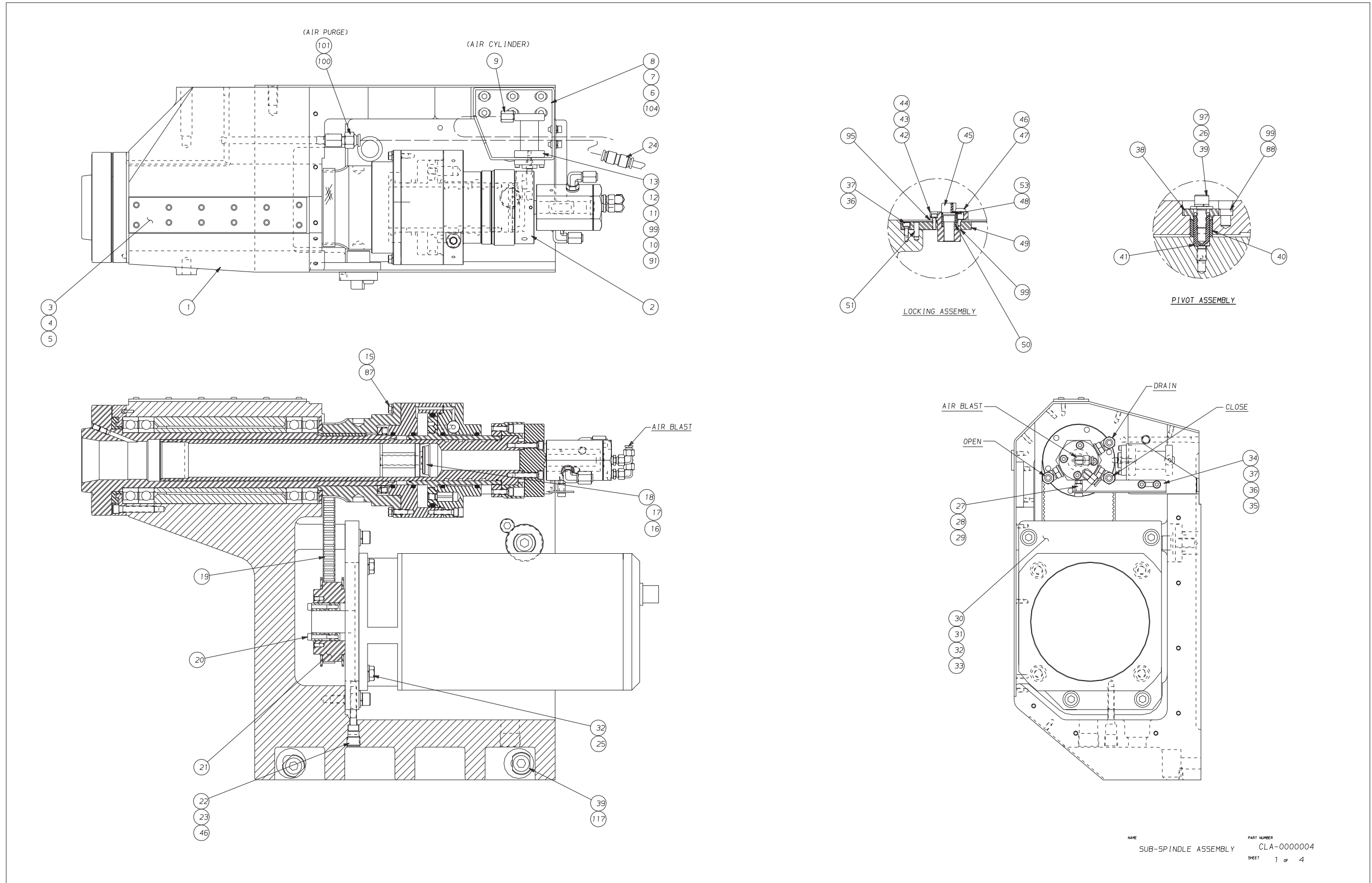
ITEM	PART NUMBER	QTY	DESCRIPTION
166	CL-0010366-10BS	1	TAG, HYDRAULIC CONTROL VA
164	CL-0010115-35SS	1	COVER, SKIRT DUCT
163	CL-0010116-66	1	GASKET, CARRIAGE
162	CL-0010116-LS	1	GASKET, LESS SUBSPINDLE
161	CL-0010215-27	1	COVER, LESS SUB SPINDLE
160	CLA-0004990-27	1	DEFLECTOR, COOLANT RING
159	CL-0004990-96	1	DEFLECTOR, DOOR
158	VL-0011738	2	LATCH, VISE ACTION
157	SB-0011965	2	PIN, DOOR ALIGNMENT
156	SG-0010366-14	1	TAG, SAFETY CYL. WARNING
155	NC-0011801	1	LEE JET
154	CS-0011801-01	1	BODY, JET
151	SB-0009623	1	CLAMP, CABLE
149	AH-0009997-02	1	BUSHING, PIPE
148	SG-0007702	2	CONNECTOR, STRAIGHT PUSH-
147	CL-0003230	1	WASHER
145	SG-0007007	11.25	HOSE, 1/2" O.D.
143	CL-0011092	1	NIPPLE, CLOSE 3/8"
142	F3-0009977-01	1	TAG, ID
141	LO-0002637	1	LAYOUT, TAG SG
140	AM 0007703	1	UNION, BULKHEAD
139	FR-0007702-04	1	CONNECTOR, STRAIGHT MALE
137	CSA-0010234-09	1	VALVE ASSEMBLY
136	F3-0009977	1	LABEL, CABLE
ITEM	PART NUMBER	QTY	DESCRIPTION

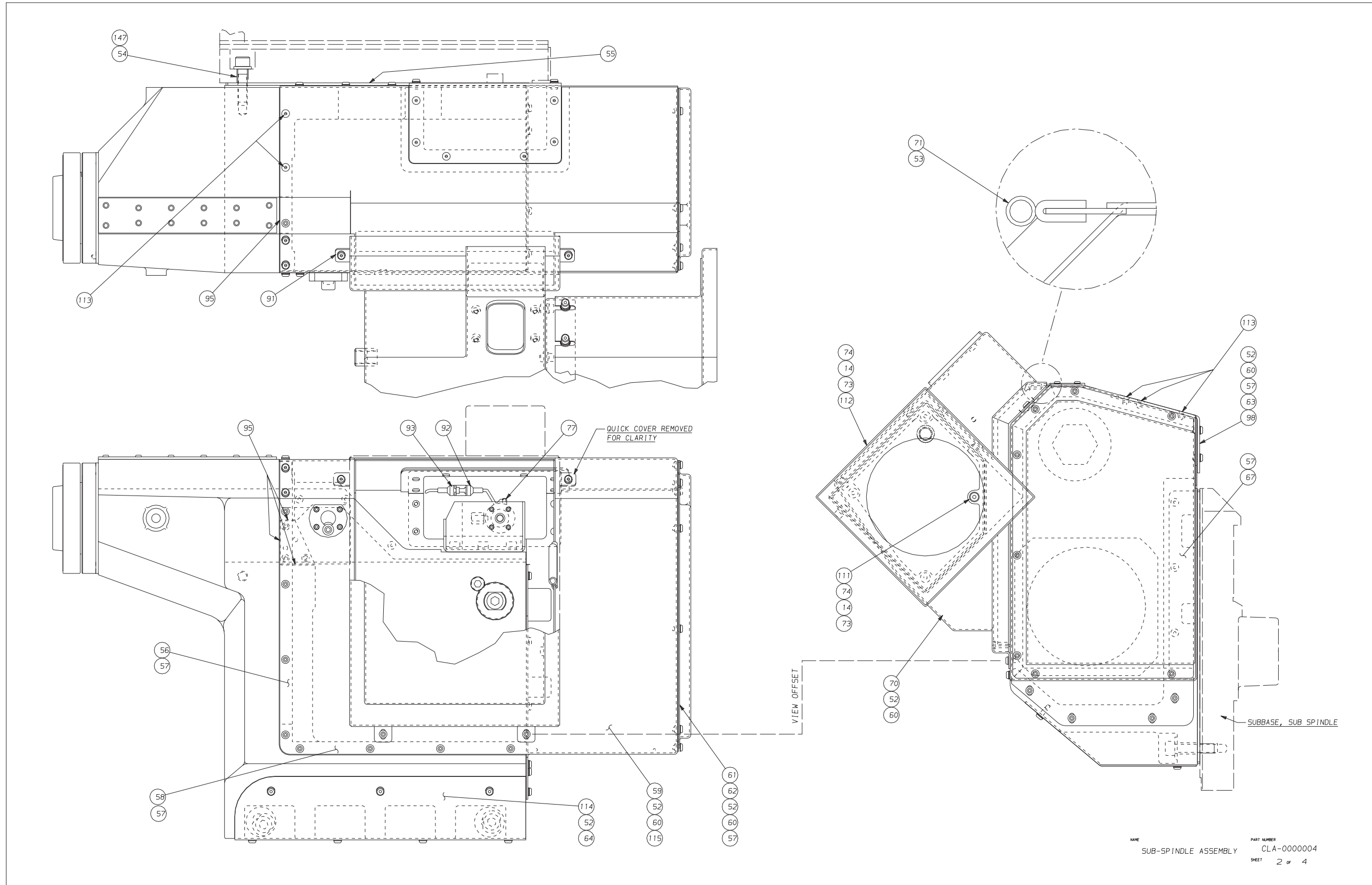
135	CL-0009938	9	SLEEVE, HIGH TEMPERATURE
134	SBA-0006966	5	MOUNT, TY-RAP
133	KH-0011335	1	MUFFLER
132	CL-0004990-65	1	BRACKET, SUB-SPINDLE SAFE
131	MN-0283610	3	M6 NUT, FLANGE
130	EF-0009886	2	#4-40 NUT, HEX-STD
129	CT-0009181	4	WASHER, LOCK
128	MW-0103310	4	M3 WASHER, FLAT
127	0100012	2	#4-40 SCREW, BUTT HD
126	SG-0002917-02	1	CYLINDER, FLAT
124	LO-0002712	1	LAYOUT, SAFETY CYLINDER
123	SG-0002321-04	1	GAGE, 2ND OP TOOL
122	SG-0008168-A	1	HANDLE ASSY
118	CL-0011452-02	1	FLOW CONTROL VALVE
117	MS-0104226	2	M12 SCREW, SKHD CPx60mm
115	MD-0003623-B	21	FLAT WASHER-(BLACK)
114	cl-0010215-72	1	COVER, SUB-SPINDLE FRONT
113	MS-0313515	8	M5 SCREW, FLAT SKHD x 10mm
111	CL-0010215-75	1	COVER, LOUVER
109	SG-0010115-90	1	COVER, END
108	AH-0007007-NF	48	TUBING, 1/4 OD
107	CL-0003048-09	2	VALVE, AIR
106	268-0007702-04	3	CONNECTOR, MALE
105	5-0001467	2	PLUG, PIPE
104	5-0001895	4	WASHER, FLAT
103	CL-0007702-05	1	TEE, UNION
102	AH-0009910	3	TY-WRAP
101	LT-0010884-S	.01	SEALANT, PIPE
100	HG-0007702	1	FITTING, PRESS LOCK STR.
99	VS-0010440	.03	ANTI-SIEZE
98	CL-0010215-23	1	COVER, AIR CYLINDER
97	MS-0104220	1	M12 SCREW, SKHD CP x 40mm
95	HG-0010884	.16	PERMATEX, ULTRA-BLUE
94	CL-003990-76	1	DUCT WELD ASSEMBLY
93	CN-0012042-42	1	CONNECTOR, CABLE-MALE
92	CN-0010225	1	CONNECTOR, CABLE-FEMALE
91	NC-0010884-01	.05	ADHESIVE, LOCTITE #222
90	GE-0010884	.11	SILICONE
88	SG-0000530	1	GEAR
87	MW-0183610	13	M6 WASHER, LOCK
77	SG-0010224	1	SWITCH, AIR CYLINDER
76	SG-0010059	1	VALVE, COOLANT BALL
75	CL-0011623-04	1	CABLE CARRIER, GORETUBE-L
74	MS-0103616	12	M6 SCREW, SKHD CP x 12mm
73	MW-0103610	17	M6 WASHER, FLAT
71	CN-0011198-15	3.8	GASKET, TRIM
70	CL-0010215-34	1	COVER, QUICK REMOVAL
69	MS-0303616	5	M6 SCREW, BUTT HD x 12mm
67	CL-0010116-62	1	GASKET, HOUSING-BOTTOM LE
66	CCA-0007011-C2	1.5	NOZZEL, 1/2"
64	MS-0303516	9	M5 SCREW, BUTT HD X 12mm
63	CL-0010116-60	1	GASKET, AIR CYLINDER
62	CL-0010116-61	1	GASKET, END COVER
61	CL-0010215-69	1	COVER, END
60	MS-0303515	45	M5 SCREW, BUTT HD x 10mm
59	CL-0010215-28	1	COVER, HOUSING
58	CL-0010116-63	1	GASKET, HOUSING-SIDE LEG
ITEM	PART NUMBER	QTY	DESCRIPTION

57	3-0010884-01	.5	3M ADHESIVE, WEATHERSTRIP
56	CL-0010115-64	1	GASKET, HOUSING-TOP LEG
55	CL-0007861	1	ADAPTER-SHIM PLATE
54	MS-0104226	1	M12 SCREW SKHD CPx60mm
53	RF-0010994	1.01	M55 GREASE
52	MW-0263510	54	M5 WASHER, STAR
51	CL-0002024	2	PIN, DOWEL
50	SB-0007335-01	1	SPRING
49	SG-0001991-05	1	PLATE, LOCKING
48	OR-0001012	1	O-RING
47	MS-0303815	1	M8 SCREW, BUTT HD x 10mm
46	NC-0010884	.02	ADHESIVE, LOCTITE #242
45	CL-0009873	1	PLUNGER
44	MS-0103417	4	M4 SCREW, SKHD CP x 16mm
43	MW-0193410	4	M4 WASHER, LOCK
42	CL-0011776-L	1	HOUSING, LOCKING
41	CL-0011052-01	1	PIVOT
40	CL-0011304	2	SLEEVE, ECCENTRIC
39	CS-0003230-01	3	WASHER, TAILSTOCK BASE
38	SG-0004938	1	WASHER, ECCENTRIC SLEEVE
37	MS-0103516	5	M5 SCREW, SKHD CP x 12mm
36	MW-0193510	5	M5 WASHER, LOCK
35	MW-0103510	2	M5 WASHER, FLAT
34	SG-0003990-70	1	BRACKET, ROTARY UNION
33	MS-0104021	4	M10 SCREW, SKHD CP x 35mm
32	MW-0194010	8	M10 WASHER, LOCK
31	MW-0104010-H	4	M10 WASHER, FLAT-HARDENED
30	CLA-0001991-04	1	PLATE, MOTOR
29	HG-0007007	12.38	TUBING, 5/16" OD
28	MN-0113510	1	M5 NUT, HEX-REGULAR
27	MS-0496016	1	M5 SCREW, SHOULDER SKHD
26	MW-0194210	1	M12 WASHER, LOCK
25	MS-0154020	4	M10 SCREW, HEX HD x 30mm
24	CL-0007702-11	1	UNION, STRAIGHT 5/16" OD
23	MS-0103822	1	M8 SCREW, SKHD CP x 40mm
22	375-0001467	1	PLUG, PIPE 3/8 NPT
21	CLA-0003177-09	1	PULLEY ASSEMBLY
20	SG-0010389	1	SLEEVE, CLAMPING
19	CLA-0003346-05	1	BELT, 2nd OP SPINDLE
18	SGC-0008050-04	1	SCRAPER
17	SG-0009259-IT	1	SLEEVE, INSTALLATION
16	RF-0010982	1	CUP, PISTON
15	MS-0153618	8	M6 SCREW, HEX HD x 20mm
14	MW-0193610	12	M6 WASHER, LOCK
13	SG-0002917	1	CYLINDER, AIR
12	SGA-0004091	1	PILOT, AIR CYLINDER
11	SG-0001424	1	PUSHER, AIR CYLINDER
10	0100112	4	#6-32 SCREW, SKHD x 3/4"
9	RF-0010786-01	2	FITTING
8	CLA-0004990-23	1	BRACKET, AIR CYLINDER
7	MS-0103818	4	M8 SCREW, SKHD CP x 20mm
6	MW-0193810	4	M8 WASHER, LOCK
5	CS-0010884-04	.1	ADHESIVE, BLACK INSTANT
4	CS-0011032	12	CLIP, NYLON ARROW
3	CL-0006916	1	BUMPER
2	SG-000006-01	1	COLLET CLOSER ASSEMBLY
1	CLA-0000263-2N	1	2nd OP, SPINDLE SUB-ASSY
ITEM	PART NUMBER	QTY	DESCRIPTION

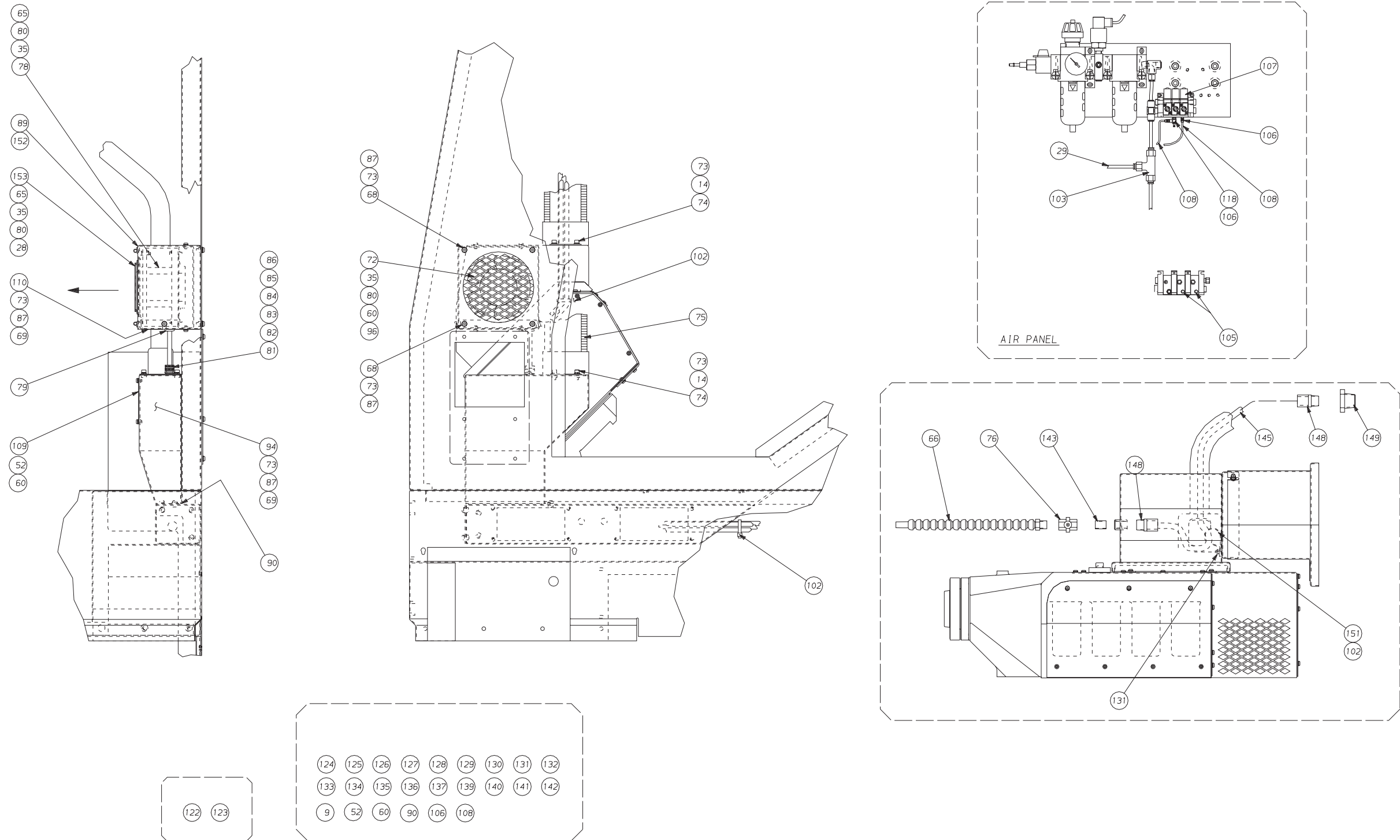
NAME CL SUB-SPINDLE ASSEMBLY BALL SCREW DRIVEN PART NUMBER CL-0000004-BS SHEET 5 of 5

Sub-Spindle Assembly, Hydraulic





Sub-Spindle Assembly, Hydraulic



NAME: SUB-SPINDLE ASSEMBLY
 PART NUMBER: CLA-0000004
 SHEET: 3 of 4

114	CL-0010215-41	1	COVER, SUB-SPINDLE FRONT
113	MS-0313515	8	M5 SCREW, FLAT SKHD x 10mm
112	CLA-0004990-19	1	DUCT, CL SUB-SPINDLE
111	CL-0004990-18	1	DUCT, SUB-SPINDLE CENTER
110	CL-0003990-79	1	BOTTOM, DUCT FAN
109	SG-0010115-90	1	COVER, END
108	AH-0007007-NF	36	TUBING, 1/4 OD
107	CL-0003048-09	2	VALVE, AIR
106	268-0007702-04	3	CONNECTOR, MALE
105	5-0001467	2	PLUG, PIPE
104	5-0001895	4	WASHER, FLAT
103	CL-0007702-05	1	TEE, UNION
102	AH-0009910	3	TY-WRAP
101	LT-0010884-5	.01	SEALANT, PIPE
100	HG-0007702	1	FITTING, PRESS LOCK STR.
99	VS-0010440	.03	ANTI-SIEZE
98	CL-0010215-23	1	COVER, AIR CYLINDER
97	MS-0104220	1	M12 SCREW, SKHD CP x 40mm
96	CL-0011350-01	1	FILTER
95	HG-0010884	.16	PERMATEX, ULTRA-BLUE
94	CL-003990-76	1	DUCT WELD ASSEMBLY
93	CN-0012042-42	1	CONNECTOR, CABLE-MALE
92	CN-0010225	1	CONNECTOR, CABLE-FEMALE
91	NC-0010884-01	.05	ADHESIVE, LOCTITE #222
90	GE-0010884	.11	SILICONE
89	CL-0003990-78	1	DUCT, FAN
88	SG-0000530	1	GEAR
87	MW-0183610	19	M6 WASHER, LOCK
86	50-0010226	1	WASHER, SEAL
85	AH-0011508	1	NUT, LOCK
84	DB-0009207-9B	1	NUT, COMPRESSION
83	DB-0009207-W	1	WASHER
82	DB-0009207-9A	1	BODY
81	DB-0009207-9E	1	GROMMET
80	MW-0183510	12	M5 WASHER, LOCK
79	NC-0009532-05	1	GROMMET
78	CS-0011850-14	1	FAN, TARZAN
77	SG-0010224	1	SWITCH, AIR CYLINDER
76	SG-0010059	1	VALVE, COOLANT BALL
75	CL-0011623-04	1	CABLE CARRIER, LOWER AXIS
74	MS-0103616	17	M6 SCREW, SKHD CP x 12mm
73	MW-0103610	28	M6 WASHER, FLAT
72	CL-0003990-80	1	MOUNT, FAN DUCT
71	CN-0011198-15	3.8	GASKET, TRIM
70	CL-0010215-34	1	COVER, QUICK REMOVAL
69	MS-0303616	7	M6 SCREW, BUTT HD x 12mm
68	MS-0303617	4	M6 SCREW, BUTT HD x 16mm
67	CL-0010116-62	1	GASKET, HOUSING-BOTTOM LE
66	CLA-0007011-C2	1.5	NOZZEL, 1/2"
65	MS-0303519	8	M5 SCREW, BUTT HD x 25mm
64	MS-0303516	2	M5 SCREW, BUTT HD X 12mm
63	CL-0010116-60	1	GASKET, AIR CYLINDER
62	CL-0010116-61	1	GASKET, END COVER
61	CL-0010215-69	1	COVER, END
60	MS-0303515	49	M5 SCREW, BUTT HD x 10mm
59	CL-0010215-28	1	COVER, HOUSING
58	CL-0010116-63	1	GASKET, HOUSING-SIDE LEG
ITEM	PART NUMBER	QTY	DESCRIPTION

57	3-0010884-01	.5	3M ADHESIVE, WEATHERSTRIP
56	CL-0010115-64	1	GASKET, HOUSING-TOP LEG
55	CL-0009001-02	1	SHIM, SUB-SPINDLE
54	MS-0104223	1	M12 SCREW, SKHD CP x 45mm
53	RF-0010994	1.01	M55 GREASE
52	MW-0263510	47	M5 WASHER, STAR
51	CL-0002024	2	PIN, DOWEL
50	SB-0007335-01	1	SPRING
49	SG-0001991-05	1	PLATE, LOCKING
48	OR-0001012	1	O-RING
47	MS-0303815	1	M8 SCREW, BUTT HD x 10mm
46	NC-0010884	.02	ADHESIVE, LOCTITE #242
45	CL-0009873	1	PLUNGER
44	MS-0103417	4	M4 SCREW, SKHD CP x 16mm
43	MW-0193410	4	M4 WASHER, LOCK
42	CL-0011776-L	1	HOUSING, LOCKING
41	CL-0011052	1	PIVOT
40	CSA-0011304-01	1	SLEEVE, ECCENTRIC
39	CS-0003230-01	3	WASHER, TAILSTOCK BASE
38	SG-0004938	1	WASHER, ECCENTRIC SLEEVE
37	MS-0103516	5	M5 SCREW, SKHD CP x 12mm
36	MW-0193510	5	M5 WASHER, LOCK
35	MW-0103510	14	M5 WASHER, FLAT
34	SG-0003990-70	1	BRACKET, ROTARY UNION
33	MS-0104021	4	M10 SCREW, SKHD CP x 35mm
32	MW-0194010	8	M10 WASHER, LOCK
31	MW-0104010-H	4	M10 WASHER, FLAT-HARDENED
30	CL-0001991-04	1	PLATE, MOTOR
29	HG-0007007	12.38	TUBING, 5/16" OD
28	MN-0113510	5	M5 NUT, HEX-REGULAR
27	MS-0496016	1	M5 SCREW, SHOULDER SKHD
26	MW-0194210	1	M12 WASHER, LOCK
25	MS-0154020	4	M10 SCREW, HEX HD x 30mm
24	CL-0007702-11	1	UNION, STRAIGHT 5/16" OD
23	MS-0103822	1	M8 SCREW, SKHD CP x 40mm
22	375-0001467	1	PLUG, PIPE 3/8 NPT
21	CLA-0003177-09	1	PULLEY ASSEMBLY
20	SG-0010389	1	SLEEVE, CLAMPING
19	CLA-0003346-05	1	BELT, 2nd OP SPINDLE
18	SGC-0008050-04	1	SCRAPER
17	SG-0009259-1T	1	SLEEVE, INSTALLATION
16	RF-0010982	1	CUP, PISTON
15	MS-0153618	8	M6 SCREW, HEX HD x 20mm
14	MW-0193610	17	M6 WASHER, LOCK
13	SG-0002917	1	CYLINDER, AIR
12	SG-0004091	1	PILOT, AIR CYLINDER
11	SG-0001424	1	PUSHER, AIR CYLINDER
10	0100112	4	#6-32 SCREW, SKHD x 3/4"
9	RF-0010786-01	2	FITTING
8	CL-0004990-23	1	BRACKET, AIR CYLINDER
7	MS-0103818	4	M8 SCREW, SKHD CP x 20mm
6	MW-0193810	4	M8 WASHER, LOCK
5	CS-0010884-04	.1	ADHESIVE, BLACK INSTANT
4	CS-0011032	12	CLIP, NYLON ARROW
3	CL-0006916	1	BUMPER
2	SG-000006-01	1	COLLET CLOSER ASSEMBLY
1	CLA-0000263-2N	1	2nd OP, SPINDLE SUB-ASSY
ITEM	PART NUMBER	QTY	DESCRIPTION

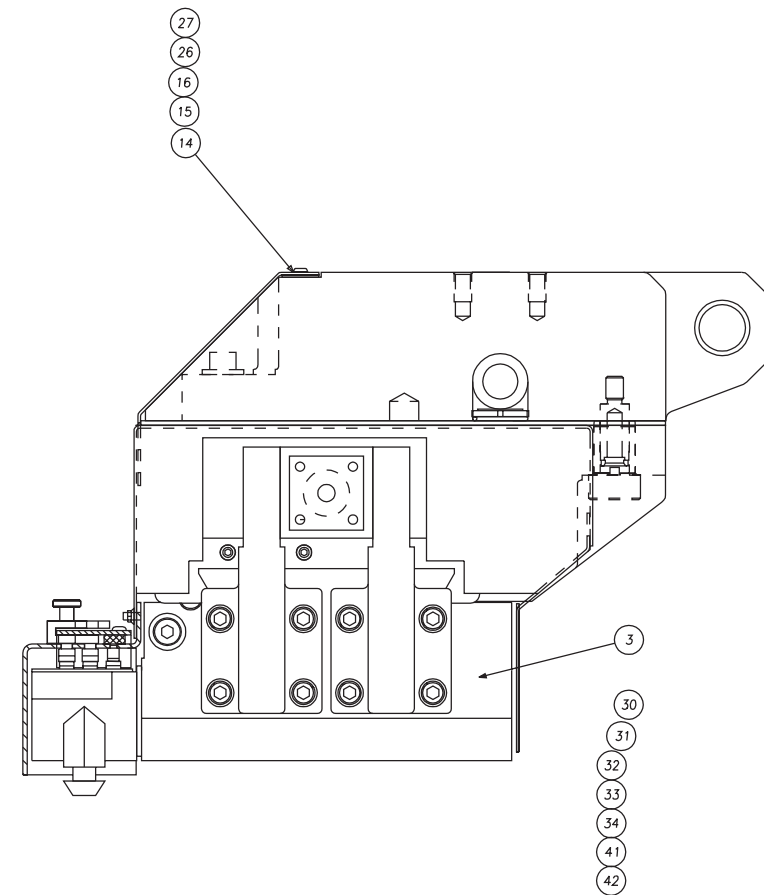
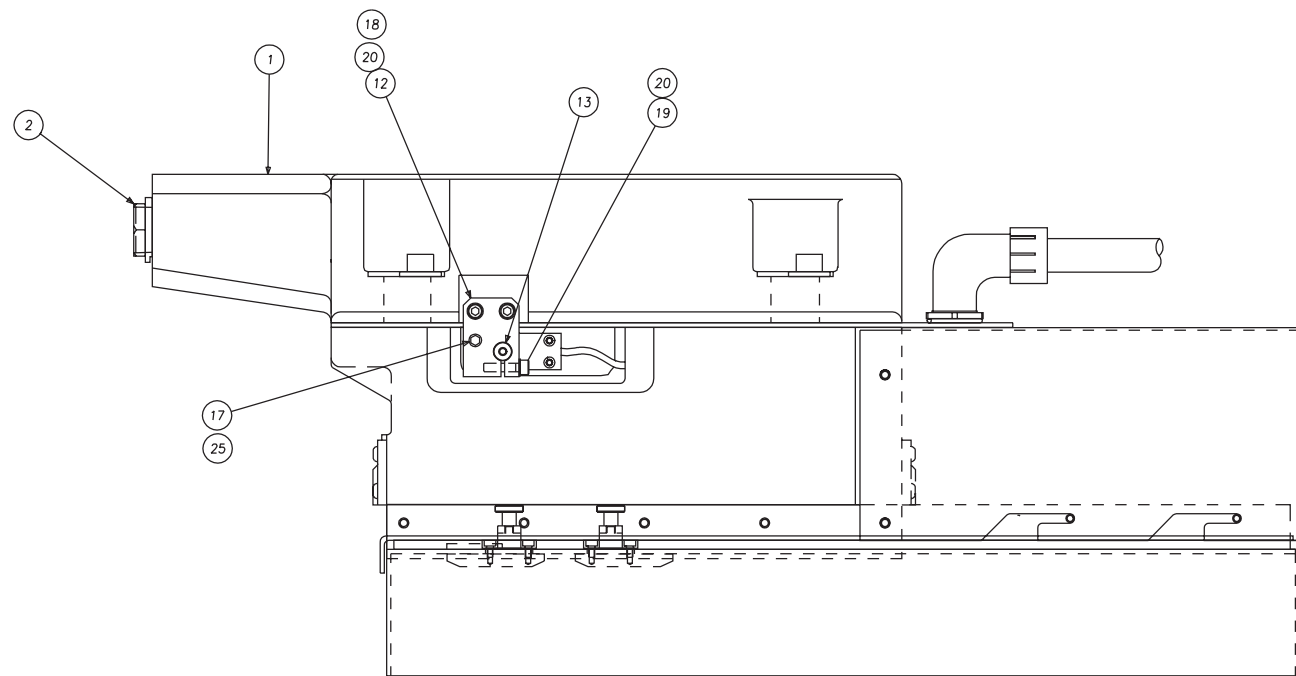
NAME
CL SUB-SPINDLE ASSEMBLY
PART NUMBER
CLA-0000004
SHEET
4 of 4

Sub-Spindle Assembly, Hydraulic

①⑤④ ①⑤⑤ ①⑤⑥ ①⑤⑦ ①⑤⑧ ①⑤⑨

159	CL 00103661055	1	TAG, HYDRAULIC CONTROL VA
158	CL 000299057	1	DEFLECTOR, COOLANT CATCHE
157	CL 000365001	1	SWITCH
156	SG 001036614CE	1	TAG, SAFETY CYLINDER
155	NC 0011801	1	LEE JET
154	CS 001180101	1	BODY, JET
153	CS-0009971-03	1	GUARD, FAN-TARZAN
152	CN-0011198-01	1.67	TRIM SEAL, SIDE
151	SB-0009623	1	CLAMP, CABLE
149	AH-0009997-02	1	BUSHING, PIPE
148	SG-0007702	2	CONNECTOR, STRAIGHT PUSH-
147	CL-0002840-01	1	M16 WASHER, FLAT-HARDENED
145	SG-0007007	11.25	HOSE, 1/2" O.D.
143	CL-0011092	1	NIPPLE, CLOSE 3/8"
142	F3-0009977-01	1	TAG, ID
141	L0-0002637	1	LAYOUT, TAG SG
140	AM 0007703	1	UNION, BULKHEAD
139	FR-0007702-04	1	CONNECTOR ST. MALE
137	CSA-0010234-09	1	VALVE ASSY
136	F3-0009977	1	LABEL
135	CL-0009938	8	SLEEVE
134	SB-0006966	5	TY-RAP
133	KH-0011335	1	MUFFLER
132	CL-0004990-65	1	BRACKET
131	MN-0283610	3	M6 NUT, FLANGE
130	EF-0009886	2	NUT
129	CT-0009181	4	WASHER, LOCK
128	MW-0103310	4	WASHER, FLAT REG. M3
127	0100012	2	#4-40 BT HD SCREW
126	SG-0002917-02	1	CYLINDER, FLAT
125	CLA-0004990-27	1	DEFLECTOR, COOLANT RING
124	L0-0002712	1	LAYOUT, SAFETY CYLINDER
123	SG-0002321-04	1	GAGE, 2ND OP TOOL
122	SG-0008168-A	1	HANDLE ASSY
118	CL-0011452-02	1	FLOW CONTROL VALVE
117	M5-0104224	2	M12 SCREW, SKHD CP x 50mm
115	MD-0003623-B	21	FLAT WASHER-(BLACK)
ITEM	PART NUMBER	QTY	DESCRIPTION

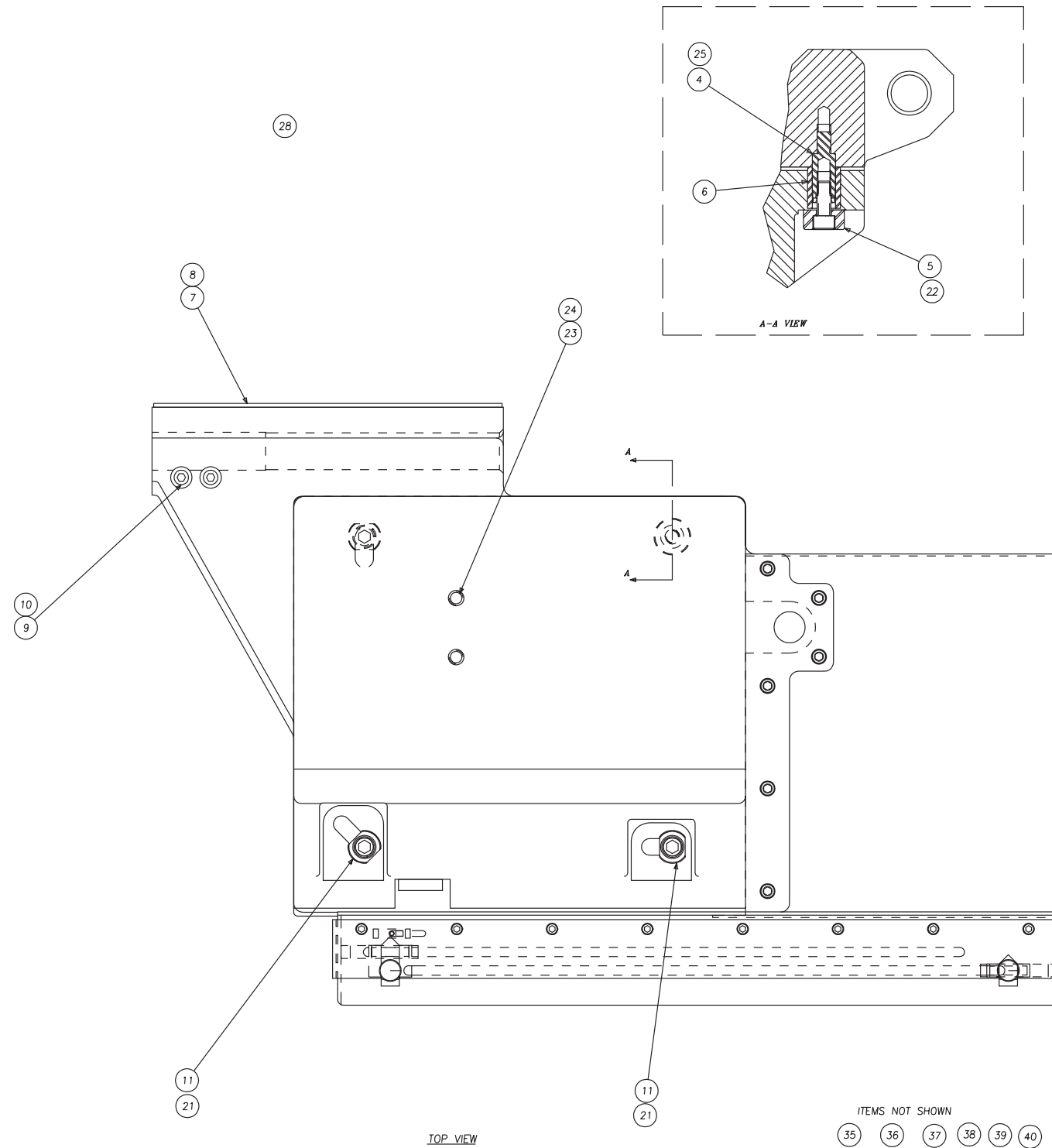
NAME CL SUB-SPINDLE ASSEMBLY PART NUMBER CLA-0000004 SHEET 4 of 4



NAME
TAILSTOCK ASSY

PART NUMBER
CL 000000318
REV 1 of 2

Tailstock Assembly

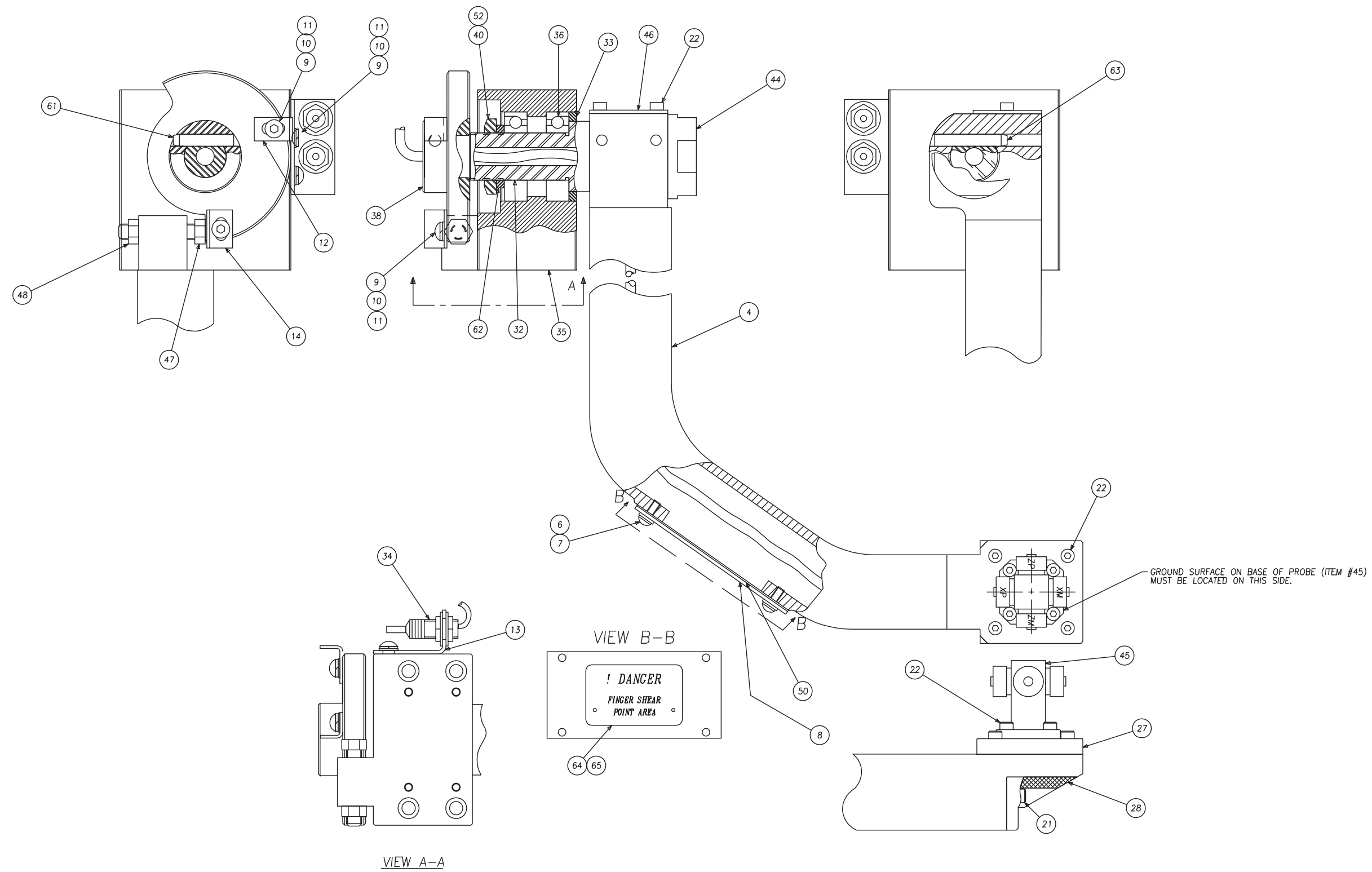


- ITEMS NOT SHOWN
- 35
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ITEM	PART NUMBER	QTY	DESCRIPTION
51	3750001467	1	PIPE PLUG
50	CL 001021556	1	COVER, DUCT W/O SS
49	MW 0183510	3	WASHER
48	MW 0103510	3	WASHER
47	MS 0303518	3	SCREW
46	HG 000415811	3	PLATE
45	CS 001194206 M	3	NUT, PEM
44	CL 0010116LS	3	GASKET, LESS SUBSPINDLE
43	CL 001021527	3	COVER, LESS SUBSPINDLE
42	MS 0104625	24	SCREW, SOC.HD M16 x 55
41	CLA0010599	2	BLOCK, RISER TAILSTOCK
40	MW 0193310	3	WASHER
39	MW 0103310	3	WASHER, FLAT
38	MN 0113310	3	NUT
37	SG 0010116	1	GASKET
36	SG 001011542	1	COVER
35	LO 0002702	1	LAYOUT
34	MS 0554216	1	M12 SCREW, SOCKET SET-CUP
33	LT 0010884 S	1	SEALANT
32	CL 000787601	6	PLUG, HOLE
31	CL 0007876	24	PLUG, HOLE
30	CL 0004629	6	PIN, DOWEL PULL-OUT
28	LO 0002544	1	INSTRUCTIONS, TAILSTOCK AS
27	MW 0263610	3	M6 STAR WASHER
26	3 001088401	.01	ADHESIVE
25	NC 0010884	.02	LOCTITE ADHESIVE
24	NC 001088401	.02	LOCTITE 222
23	MS 0554217	2	SCREW, SET M12 x 16MM
22	MS 0104220	1	SCREW, SOC HD M12 X 30MM
21	CS 000323001	3	WASHER, FLAT
20	MW 0193610	3	WASHER, M6 LOCK
19	MS 0103619	1	SREW, SH M6 X 25mm
18	MS 0303616	2	SCREW, SOCHD M6 X 12mm
17	MS 0103821	1	SCREW, SOCHD M8 X 35mm
16	MS 0303516	3	SCREW, BHDS M5 X 12mm
15	CL 001011555	1	COVER, BODY BOLTS T.S.
14	CL 001011637	1	GASKET
13	CL 0011108	1	BUTTON, ACTUATOR
12	CL 0011292	1	ACTUATOR, SWITCH
11	MS 0104226	3	SCREW, SOC HD M12 X 60mm
10	SB 0000635 S	2	SCREW FOR BINDING NUT
9	CSA0000635	2	NUT BINDING, CS T.S.
8	CS 0011032	10	CLIPS, NYLON ARROW
7	CL 000691601	1	BUMPER
6	CSA0011304	1	SLEEVE, ECCENTRIC
5	CS 000323002	1	WASHER, CLAMP
4	CL 0011052	1	PIVOT
3	CL 0000262TA	1	BED ASSEMBLY, TAILSTOCK
2	CLA0004144EB	1	ECCENTRIC BUSHING, #4
1	CL 0000401	1	TAILSTOCK BODY

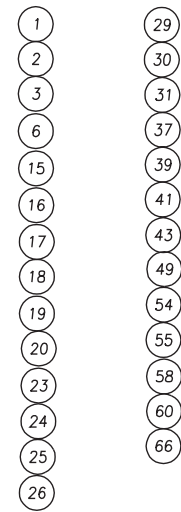
WAVE
TAILSTOCK ASSY

PART NUMBER
CL 000000318
SHEET 2 of 2



NAME TOOL TOUCH OFF ASSEMBLY PART NUMBER CLA-0002536

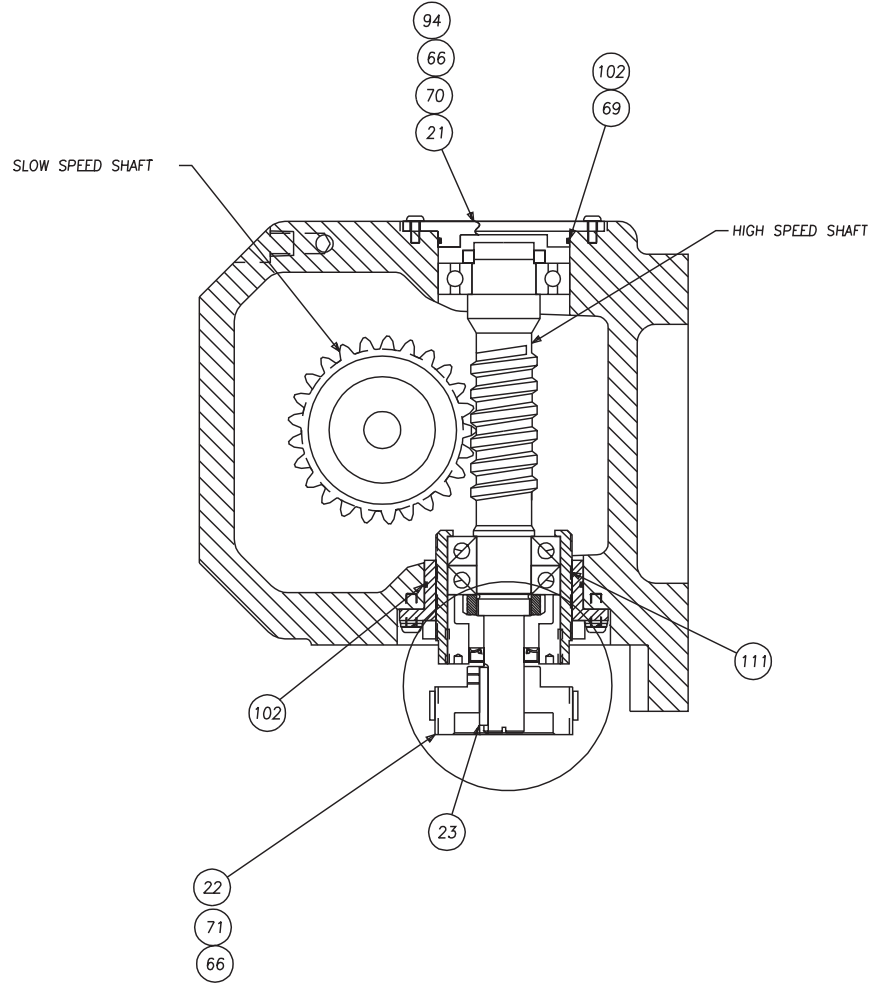
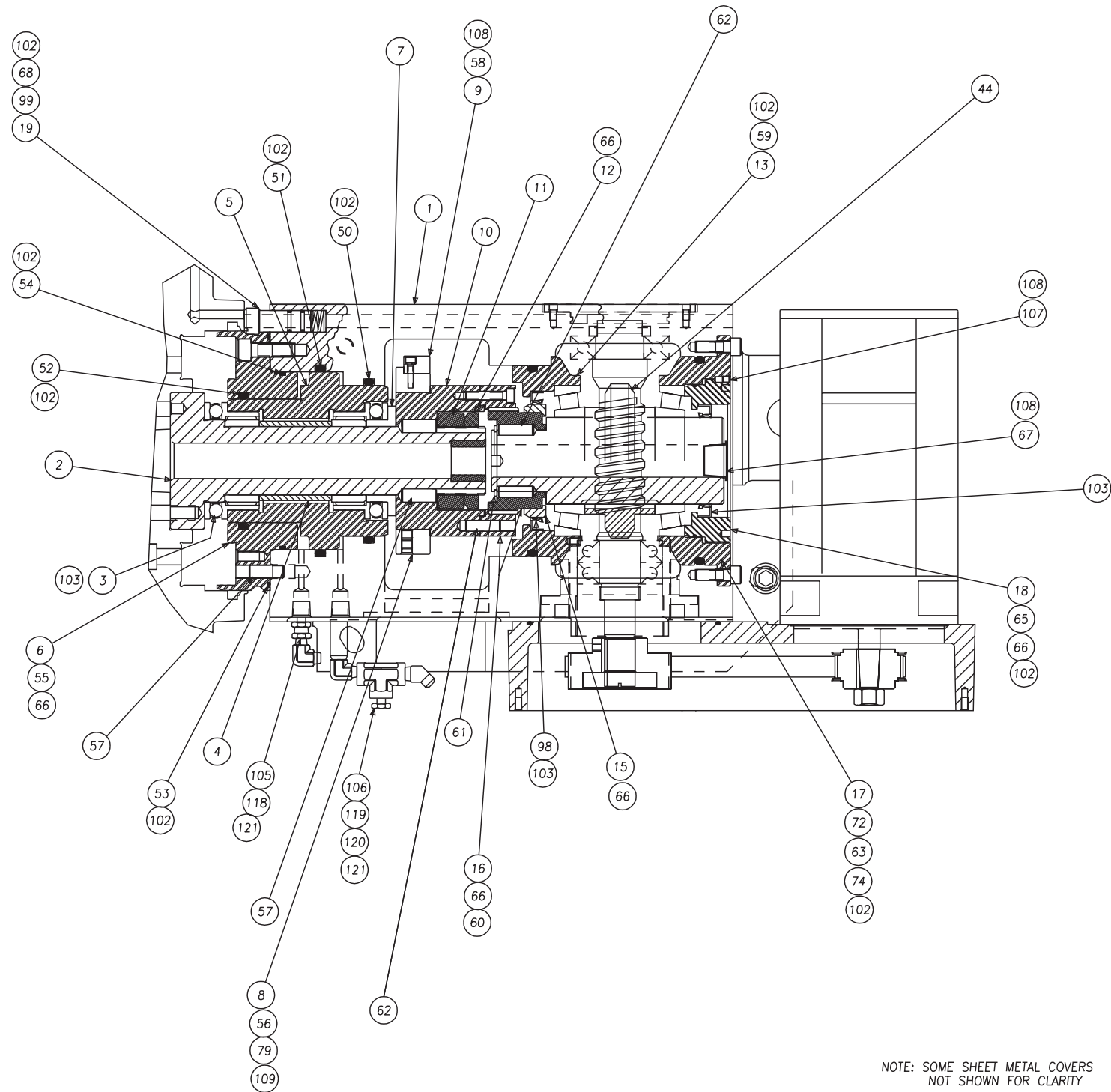
Tool Touch-Off Assembly



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	182-0002874-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

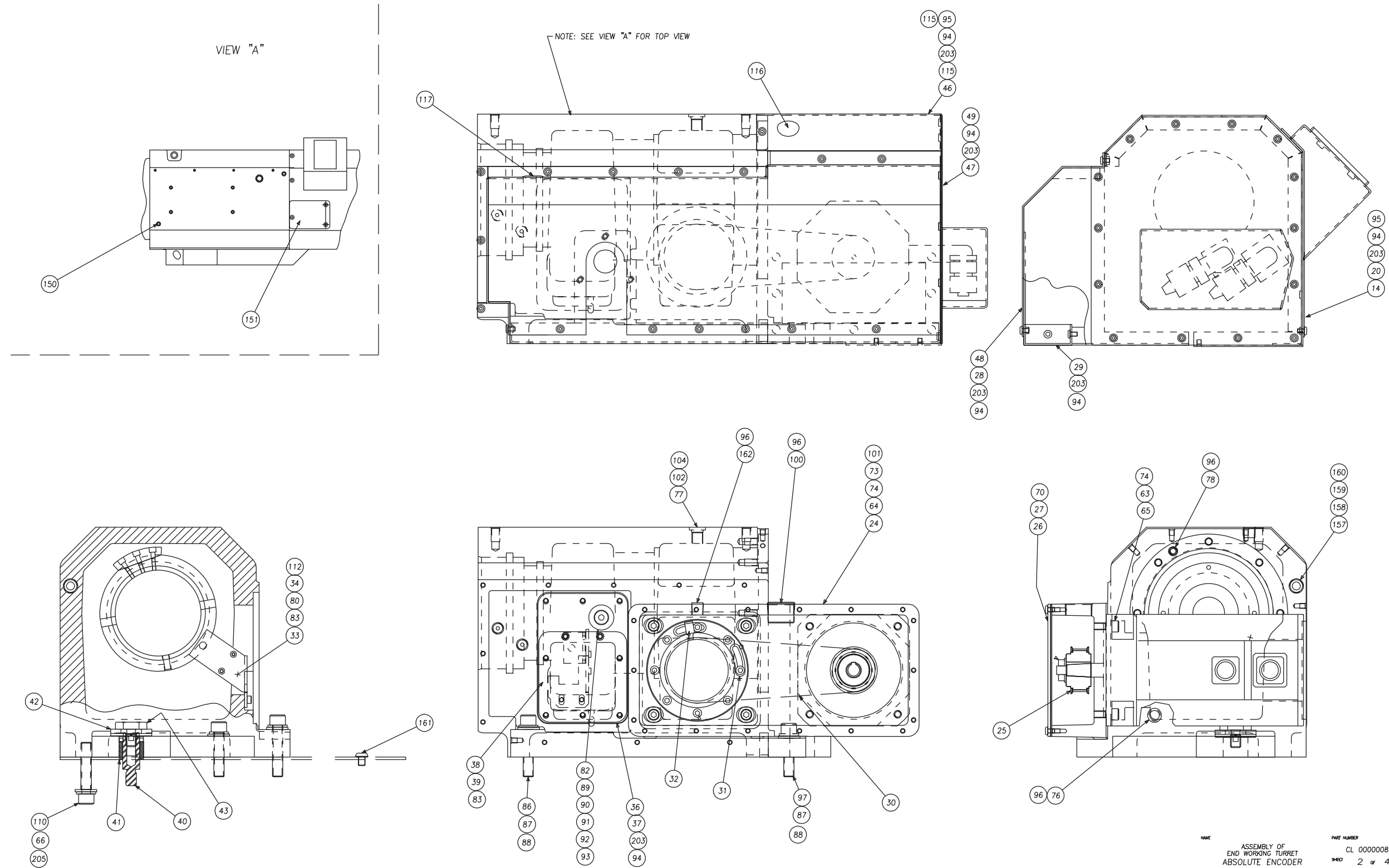
NAME TOOL TOUCH OFF ASSEMBLY PART NUMBER CLA-0002536 SHEET 2 of 2

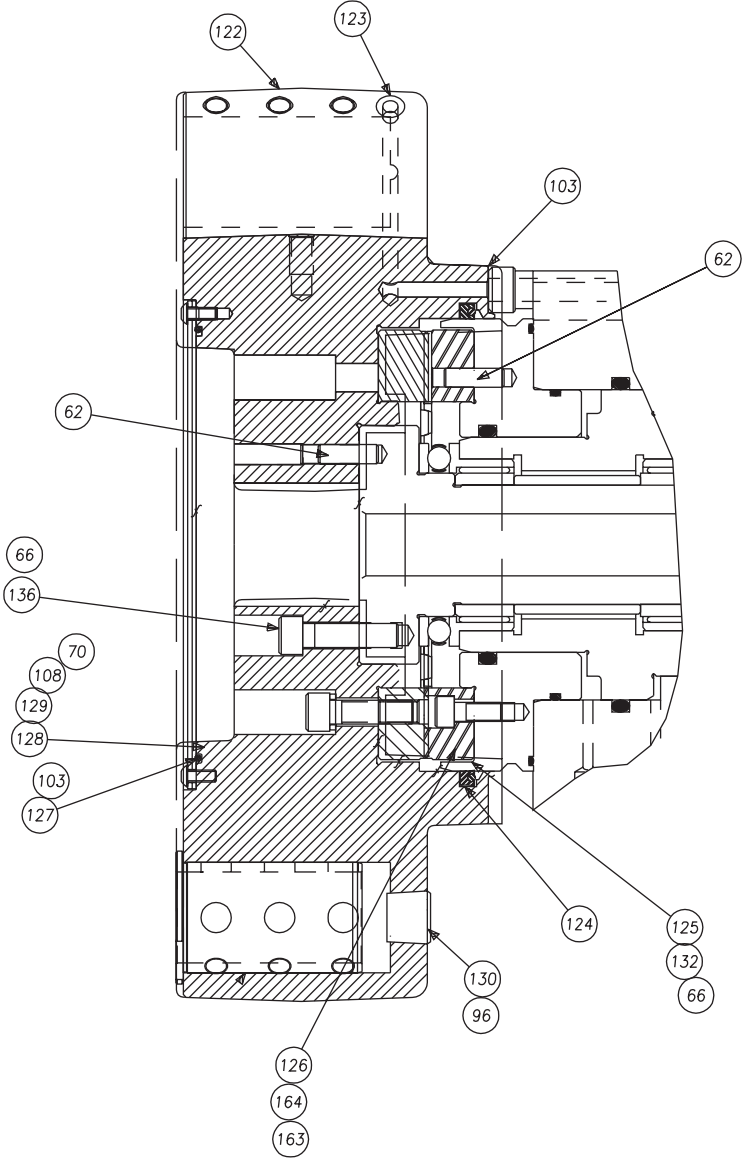
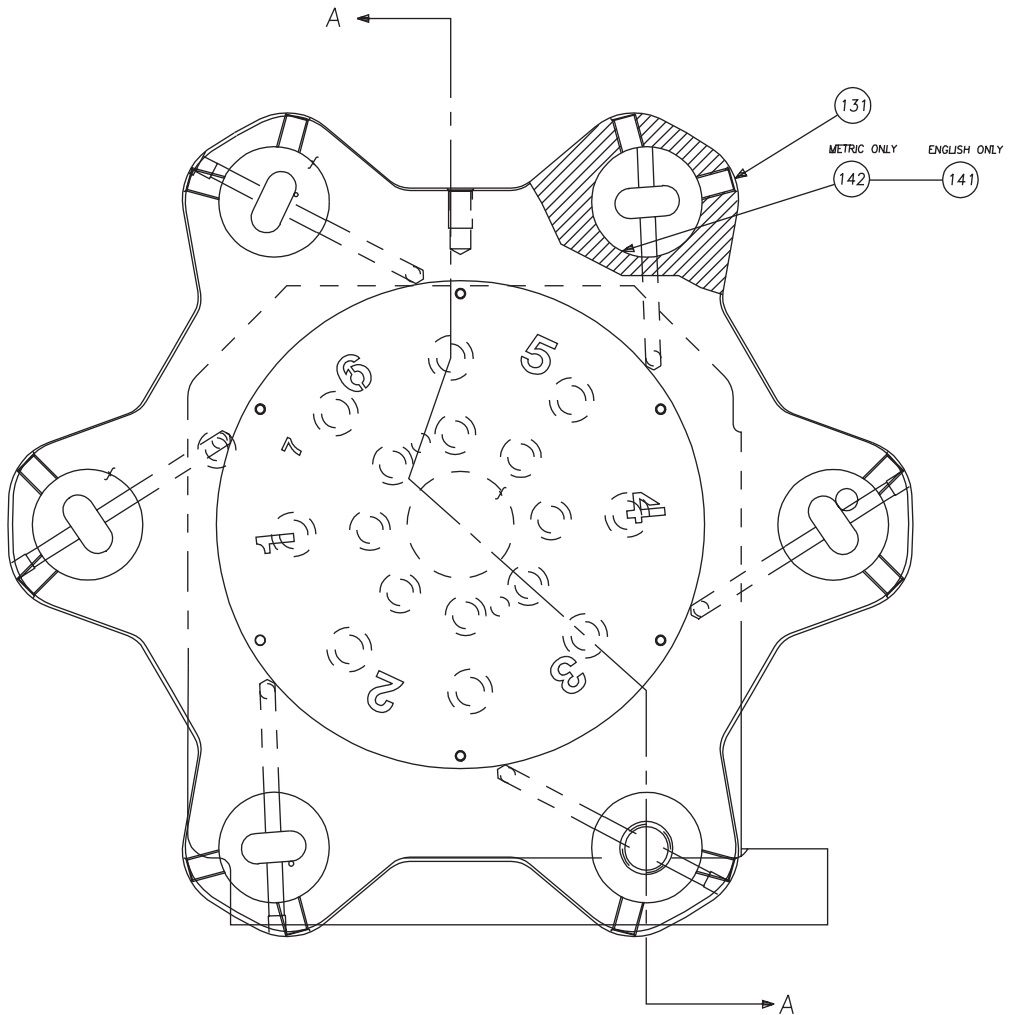


NOTE: SOME SHEET METAL COVERS NOT SHOWN FOR CLARITY

NAME: END WORK TURRET ASSEMBLY ABSOLUTE ENCODER
 PART NUMBER: CL-0000008-RTA
 SHEET: 1 of 4

Turret Assembly, End-Working





NAME
END WORK TURRET ASSEMBLY
ABSOLUTE ENCODER

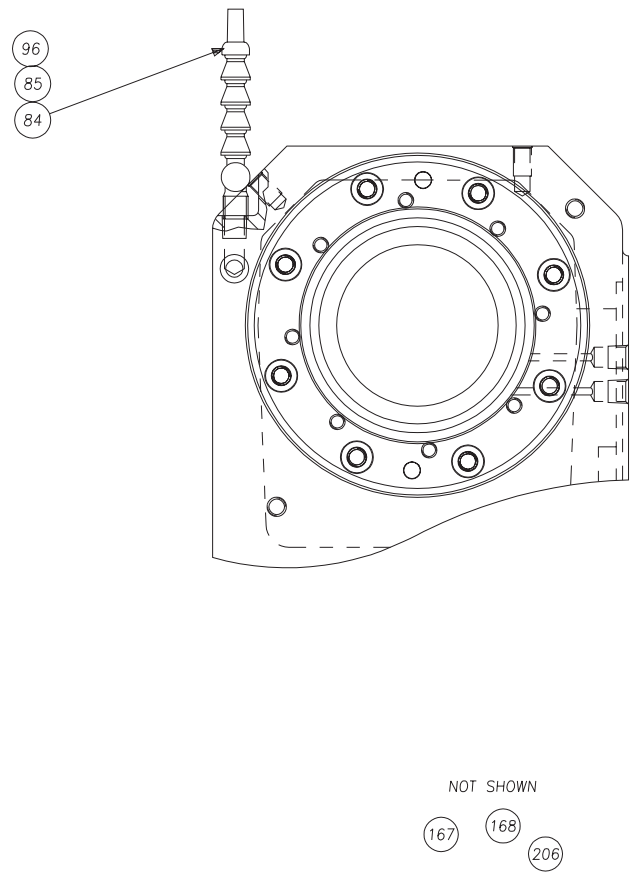
PART NUMBER
CL-0000008-RTA
SHEET 3 of 4

Turret Assembly, End-Working

120	CS-0011452-03	1	VALVE, FLOW CONTROL
119	AO-0010786	1	ELBOW, 90° STREET 1/4 N
118	CS-0007703-12	1	MALE SWIVEL, 90°
117	CS-0010331-03	1	PLUG, 0.688 IN HOLE
116	SG-0010331-01	1	PLUG, 1.0 IN HOLE
115	GE-0010884	.2	ADHESIVE, SEALANT
112	MW-0103510	2	WASHER, FLAT M5
111	SG-0010884	.1	SEALANT, GASKET
110	MS-0434224	1	SCREW, SOC HD FLG M12
109	VS-0010440	.1	ANTI-SIZE GREASE
108	NC-0010884-01	.6	LOCTITE #222
107	MS-0553512	1	SCREW, SET SOC CUP M5-5MM
106	CT-0011092	1	NIPPLE, 1/4 NPT - 2" LONG
105	KH-0010786	1	CONNECTOR, STR.
104	CL-0010912	1	OIL, GEAR BOX
103	CS-0010994	.32	GREASE
102	RF-0010994	1.2	GREASE, SILICON
101	MW-0153810	4	WASHER, FLAT HD
100	HM-0009215	1	PLUG, 1-11 NTPF
99	SG-0009764	1	SPRING, 0.6 OD X 0.875 L
98	SG-0011198-16	1	SEAL, 3.25 ID X 4.003 OD
97	MS-0104224	1	SCREW, SOC HD M12 X 50MM
96	LT-0010884-S	1.5	SEALANT, PIPE
95	MN-0283510	3	NUT, FLANGE M5
94	MW-0263510	59	WASHER, STAR M5
93	DB-0009207-W	1	WASHER
92	DB-0009207-9B	1	COMPRESSION NUT
91	DB-0009207-9F	1	GROMMET
90	DB-0009207-9A	1	BODY 1/2 IN.
89	50-0010226	1	SEAL RING
88	MW-0194210	2	WASHER LOCK M12
87	MW-0104210-H	2	WASHER, FLAT M12-HARDENED
86	MS-0104226	1	SCREW, SOC HD M12 X 60MM
85	HG-0007011	1	NOZZLE, COOLANT
84	HG-0011259-11	1	CONNECTOR, 1/4-18 NPT
83	MS-0103516	10	SCREW, SOC HD, M5 X 12 MM
82	AH-0011508	1	LOCK NUT
80	MW-0193510	2	WASHER, LOCK M5
79	MS-0483815	2	SCREW, SET TIP BRASS M8
78	62-0001467	1	PLUG, 1/16-27 NPT
77	SG-0007703-02	1	PLUG, SEAL
76	5-001914	1	PLUG, 14-18 NPT
74	MW-0193810	16	WASHER, LOCK M8
73	MS-0103820	4	SCREW, SOC HD M8 X 30MM
72	OR-0009096	1	O-RING, 5.625 ID X 0.188
71	MS-0553514	1	SET SCREW, SOC M5 X 10 MM
70	MS-0303516	28	SCREW,BUTTON SOC M5X12MM
69	SG-0009431-31	1	O-RING, 68MM ID X 2 W
68	OR-0000810	2	O-RING, 0.5 ID X 0.063 W
67	SG-0007903-01	1	PLUG, TAPERED
66	NC-0010884	2.9	LOCKTITE, 242
65	OR-0006870	2	O-RING, 4.25 ID-0.125 W
64	OR-0104108	1	O-RING
63	MS-0103819	12	SCREW, SOC HD M8 X 25 MM
62	NC-0006709	8	PIN, DOWEL 5/16
61	CS-0008231	1	RING, RETAINING
60	MS-0103620	6	SCREW, SOC HD M6 X 30 MM
ITEM	PART NUMBER	QTY	DESCRIPTION

59	OR-0008288	1	O-RING, 5.125 ID X 0.188
58	MS-0103417	3	SCREW, SO HD M4 X 16 MM
57	CS-0004630-03	4	PIN, DOWEL 1/4
56	MS-0553814	2	SET SCREW, SO M8 X 8 MM
55	MS-0104020	8	SCREW, SO HD M10 X 30 MM
54	CS-0009431-14	1	O - RING
53	CS-0009431-10	1	O - RING
52	CS-0009431-11	1	O - RING
51	CS-0009431-13	1	O - RING
50	CS-0009431-12	1	O - RING
49	SG-0020116-03	1	GASKET
48	SG-0010116-85	1	GASKET, SIDE
47	SGA-0020115-39	1	COVER, BACK
46	CL-0010215-60	1	COVER, REAR
44	SG-0006199-RT	1	WORM GEAR SET-926
43	CS-0011052-01	1	PIVOT, BOLT
42	CS-0003230-03	1	WASHER
41	CL-0011304-01	1	SLEEVE, ECCENTRIC
40	CL-0011052	1	PIVOT
39	SG-0010115-RA	1	COVER, SWITCH ACCESS
38	SG-0010116-5R	1	GASKET, ACCESS COVER
37	SG-0010115-RS	1	COVER, SWITCH
36	SG-0010116-RS	1	GASKET, SWITCH
34	CL-0010224-02	1	SWITCH
33	SG-001976-03	1	BRACKET, U/D SWITCH
32	SG-0004990-50	1	TAB (INNER)
31	SG-0004990-51	1	TAB (OUTER)
30	SG-0003346-RT	1	BELT, 5 X 565 X 15 MM GT
29	SG-0020115-40	1	COVER, BOTTOM
28	SG-0020115-27	1	COVER, SIDE
27	SG-0010116-DH	1	GASKET, DRIVE HOUSING
26	SG-0010115-DH	1	COVER, DRIVE HOUSING
25	SG-0003177-AR	1	PULLEY, ASS. 32T
24	SGA-0006001-RT	1	DRIVE HOUSING
23	SG-0006115-02	1	KEY, 0.1875 SQ X 1.25 L
22	SG-0004053-04	1	PULLEY,INDEX SHAFT 48T
21	SG-0020115-35	1	COVER, WORM SHAFT
20	CL-0010116-79	1	GASKET, REAR SIDE
19	SG-0007011	1	BUSHING, COOLANT
18	SG-0000492-RT	1	NUT,GEAR SET REAR
17	SG-0003969-RRT	1	HOUSING, GEAR SET, REAR
16	SG-0011792-RT	1	COUPLING, GEAR
15	SG-0009259-03	1	SLEEVE, SEAL
14	CL-0010215-62	1	COVER, REAR SIDE
13	SG-0003969-RT	1	HOUSING, GEAR SET, INSIDE
12	CS-0009050	1	NUT, LOCK AN10
11	CS-0001950	1	NUT, LOCK INDEX SHAFT
10	CSA-0011492-01	1	HOUSING, INDEX SHAFT
9	SG-0004025-01	1	BLOCK, HOME SWITCH RING
8	SG-0004025	1	RING, HOME SWITCH
7	CS-0001799-15	1	SPACER, BEARING
6	CSA-0011492	1	HOUSING, PISTON
5	CSA-0011455	1	PISTON, TURRET
4	CS-0001799-14	1	SPACER, BEARING
3	CS-0004140-01	2	BEARING, THRUST & NEEDLE
2	CSB-0011264	1	SHAFT, INDEX
1	SG-0007201-RT	1	RAM TURRET, CASTING
ITEM	PART NUMBER	QTY	DESCRIPTION

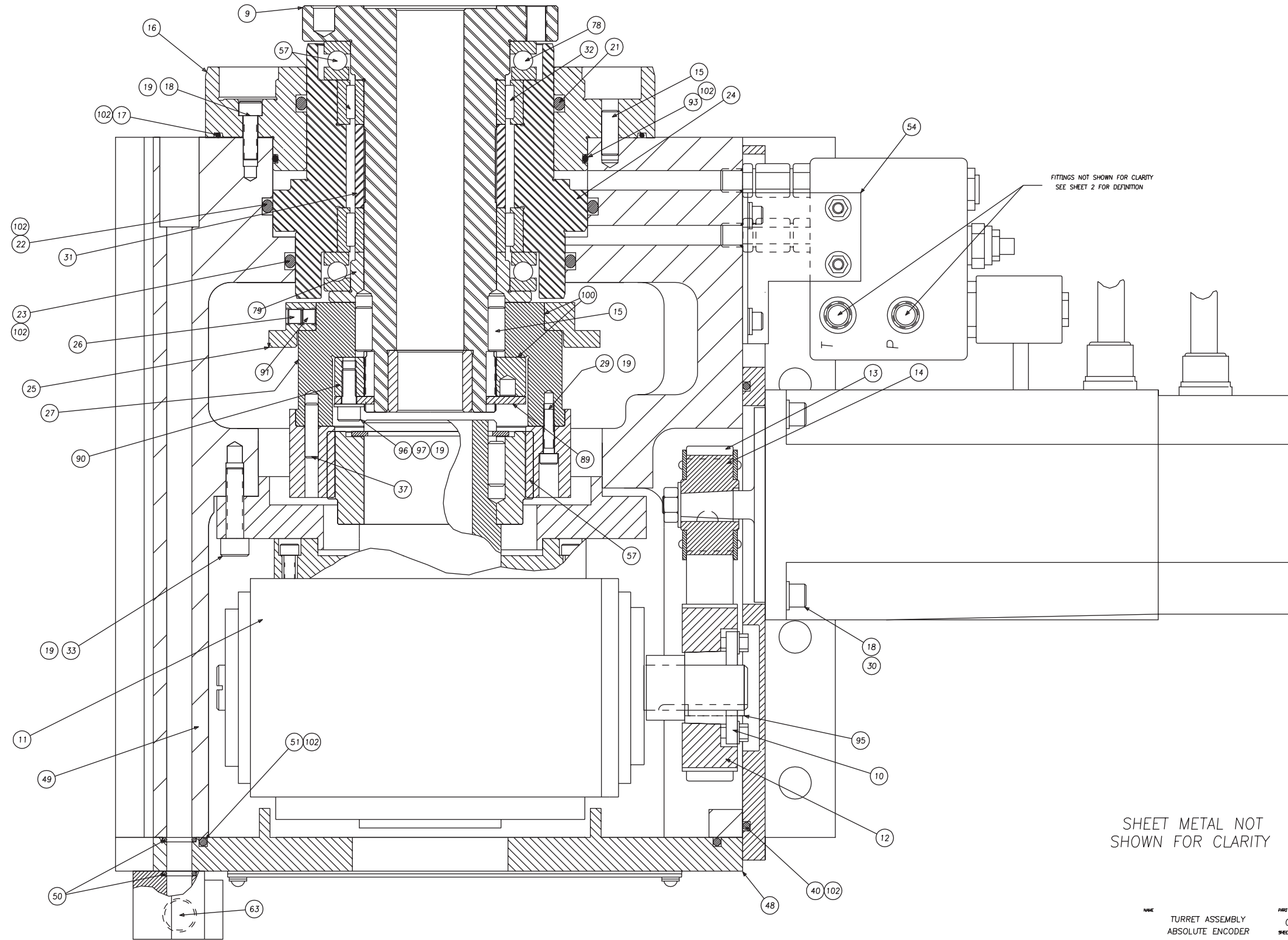
NAME END WORKING TURRET ASSEMBLY ABSOLUTE ENCODER PART NUMBER CL-0000008-RTA SHEET 4 of 4



206	SG-0011890-K	1	KIT, WRENCH
205	CS-0003230-01	1	WASHER
203	MS-0303515	55	SCREW
168	CS-0011052-01	1	PIVOT, BOLT
167	LO-0002850	1	EWT LAYOUT
164	MS-0104021	8	SCREW, SO HD M10 X 35 MM
163	MW-0194010	8	WASHER, LOCK M10
162	CS-0001467-01	1	PLUG, 14-19 BSPT NPT
161	MS-0303815	2	SCREW, BUTTON HD M8 X 10M
160	AH-0009997-02	1	BUSHING, PIPE
159	SG-0007702	1	CONNECTOR, STR. PUSH ON
158	SG-0007007	120	HOSE 1/2 OD
157	SG-0007707-02	1	CONNECTOR, 90° PUSH ON
151	SG-0010215-19	1	COVER
150	MS-0554015	2	SCREW
142	SGA-0011944	6	BUSHING, TOOL HOLDER "E"
141	SGA-0011944-01	6	BUSHING, TOOL HOLDER "M"
136	MS-0104022	8	SCREW, SOC HD, M10-40MM
132	MS-0103818	8	SCREW, SOC HD, M8-20MM
131	MS-0574017	36	SCREW, SET M10x1.5x16MM
130	TM-0006992	1	PLUG, PIPE 1/2-14 NPT
129	SG-0010419-ET	1	PLATE, BACKING
128	SG-0010419-RT	1	NAME PLATE, RAM
127	OR-0112115	1	O-RING, 6.987 ID X 0.103
126	SG-0011792-4T	1	COUPLING, TOP PLATE
125	CS-0011792-4H	1	COUPLING, HOUSING
124	CS-0011198-15	1	SEAL, POLYPAK
123	S-0010700-7	6	LEE PLUG, 0.281 SHORT
122	SG-0007214-RT	1	TOP PLATE, RAM
121	SB-0010884	.2	HYDRAULIC SEALANT
ITEM	PART NUMBER	QTY	DESCRIPTION

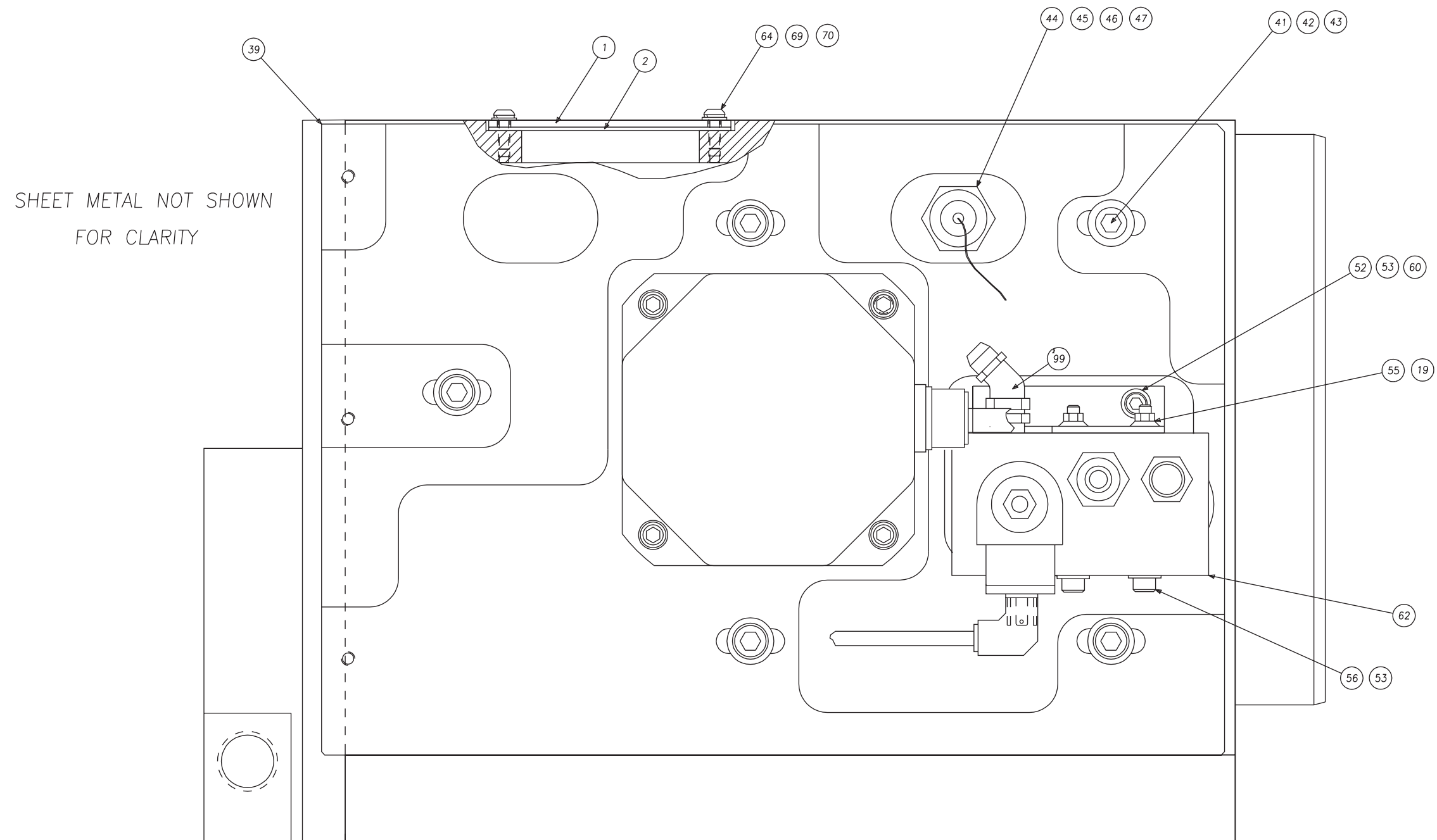
NAME: END WORKING TURRET ASSEMBLY ABSOLUTE ENCODER
 PART NUMBER: CL-0000008-RTA
 SHEET 4 of 4

Turret Assembly, Main



NAME TURRET ASSEMBLY
ABSOLUTE ENCODER

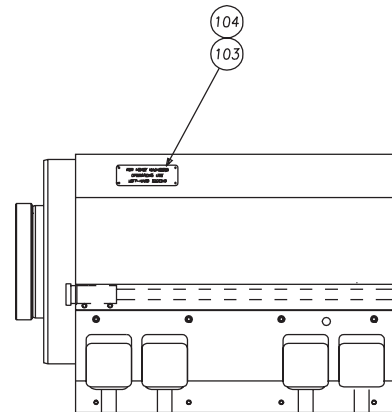
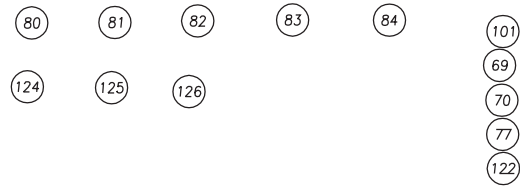
PART NUMBER
CLA-000008-A
SHEET 1 of 4



NAME
TURRET ASSEMBLY
ABSOLUTE ENCODER

PART NUMBER
CLA-000008-A
SHEET 2 of 4

ITEMS NOT SHOWN



ITEM	PART NUMBER	QTY	DESCRIPTION
140	VL-0000363-A	1	COVER, TURRET
130	CL-0010116-12	1	GASKET, COVER
129	CL-0010115-23	1	COVER, PLATE
128	CL-0010116-25	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-OS	1	SHIM PLATE
104	R-0008044	4	PIN, ESCUTCHEON
103	CLA-0010366-14CE	1	TAG, TURRET (LEFT-HAND TO
102	RF-0010994	5.999999	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	LOA-0002415	1	LAYOUT, CABLE MARKERS
83	LOD-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

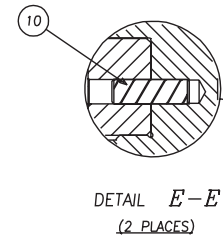
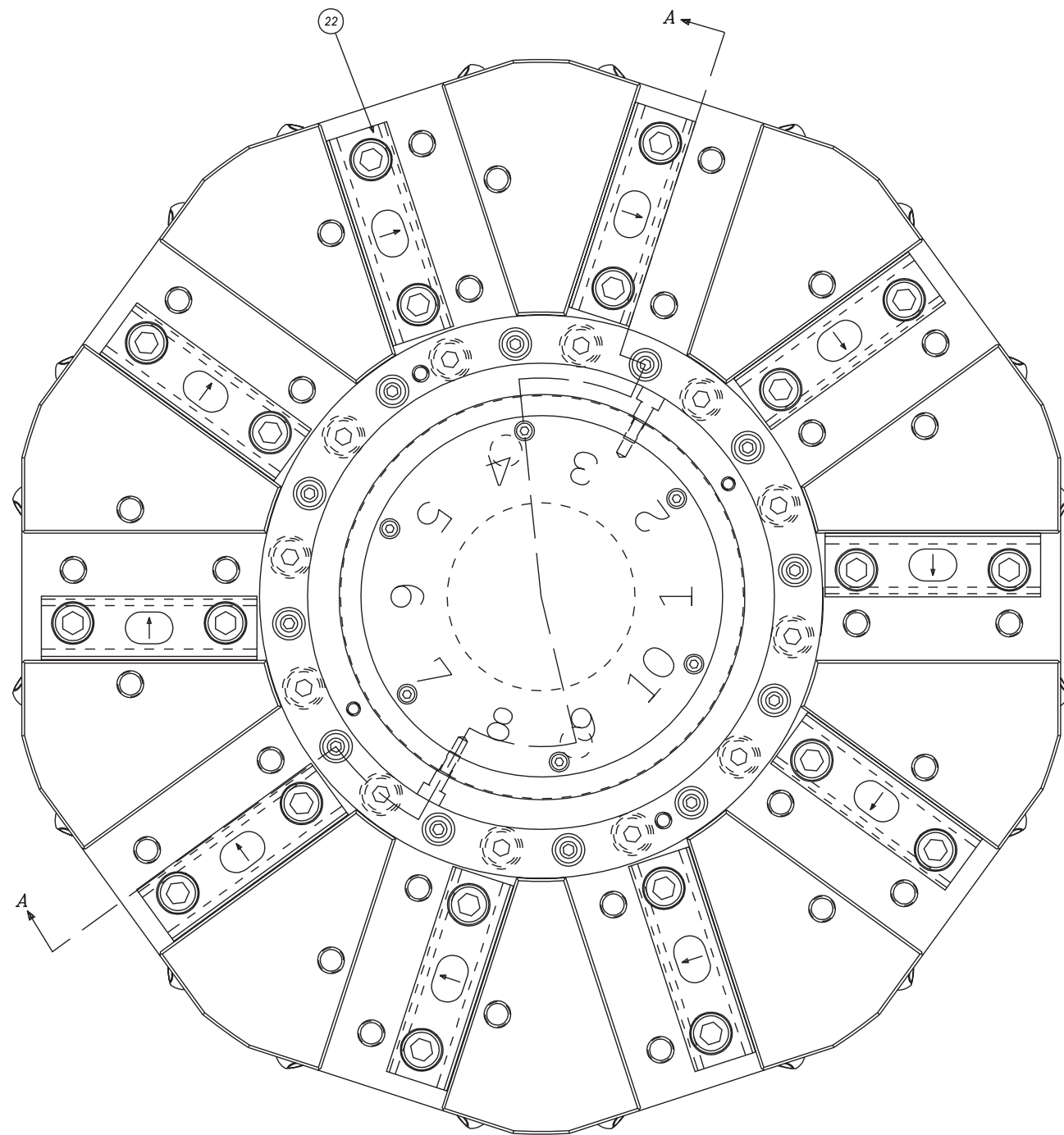


ITEM	PART NUMBER	QTY	DESCRIPTION
62	CL-0003048	1	VALVE, TURRET HYDRAULIC
61	CL-0010115-20	1	COVER, TURRET ASSEMBLY
60	MW-0193610	8	WASHER, LOCK M6-1.0
59	MS-0103624	3	SCREW, SOC. HD. CAP. M6-1
58	MS-0103618	14	SCREW, SOC. HD. CAP. M6-1
57	CS-0010994	.02	MOBILE GREASE
56	MS-0103630	2	SCREW, SOC. HD. CAP. 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	CLA-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	7.999999	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	CLB-0003177-E	1	PULLEY ASSEMBLY, 36T
13	CL-0003346-12	1	BELT,GT PROFILE
12	CLB-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	CLB-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

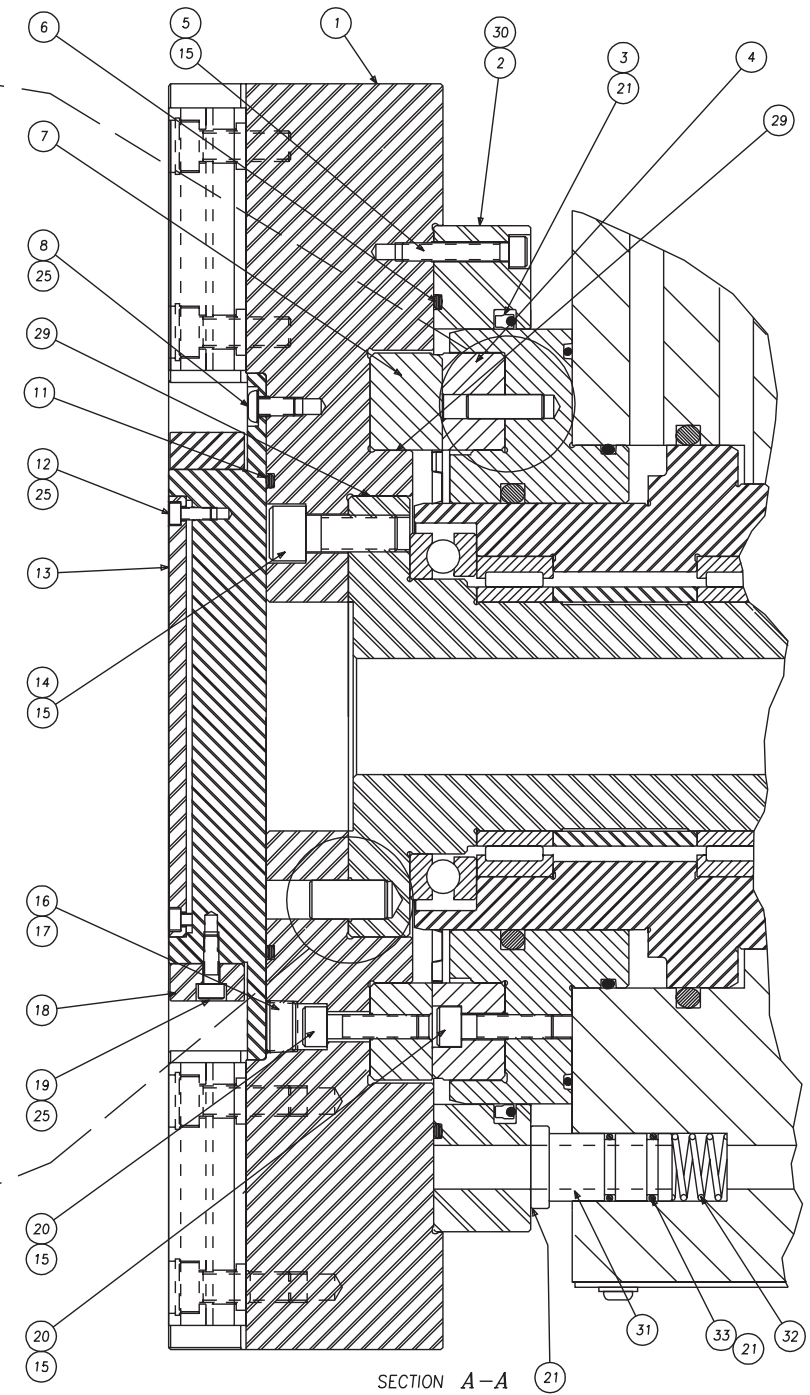
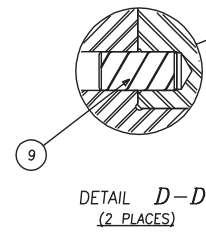
NAME: TURRET ASSEMBLY
ABSOLUTE ENCODER

PAGE NUMBER: CLA-0000008-A
SET 4 of 4

Turret Top Plate Assembly, English, 10 Station

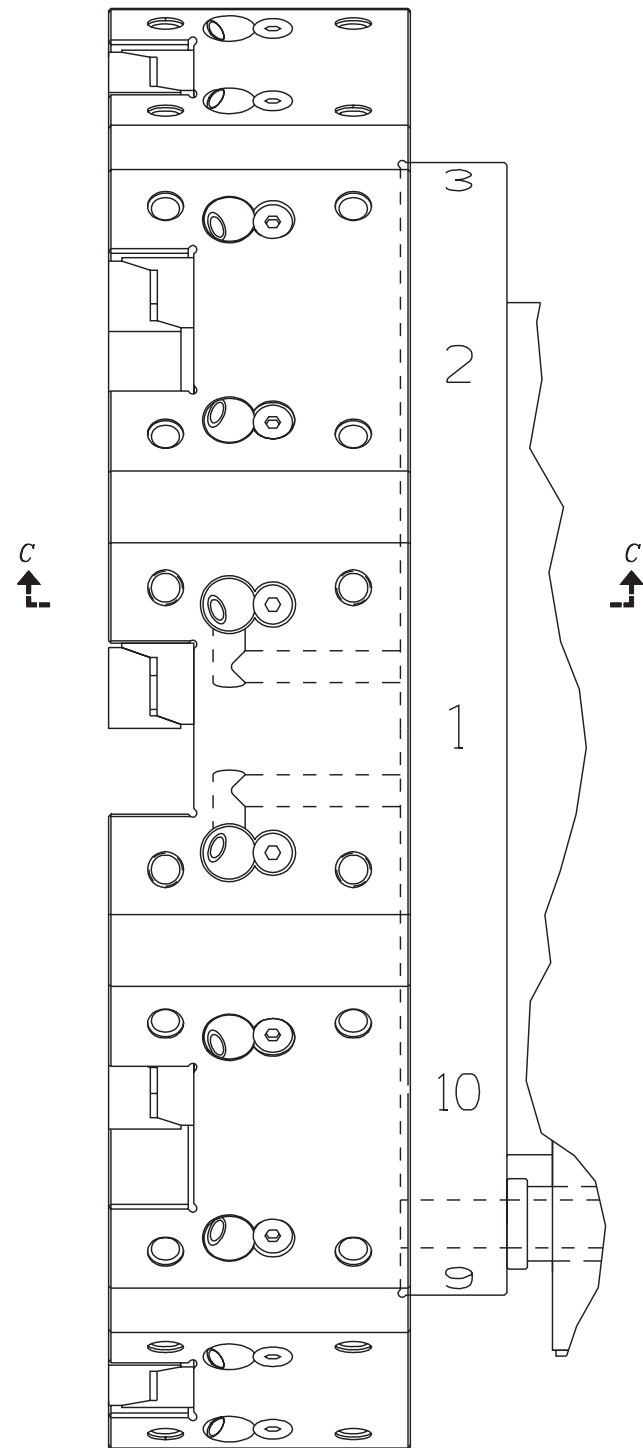


SEE
VIEW B-B

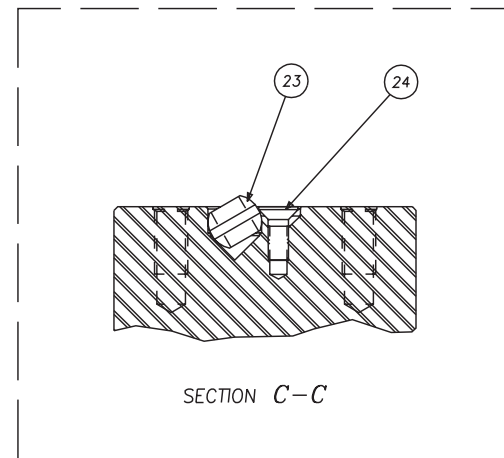


NAME TOP PLATE ASSEMBLY
STANDARD TOOLING
(10 STATION)

PART NUMBER
CLA-0007214-E1
SHEET 1 of 3



VIEW B-B



26

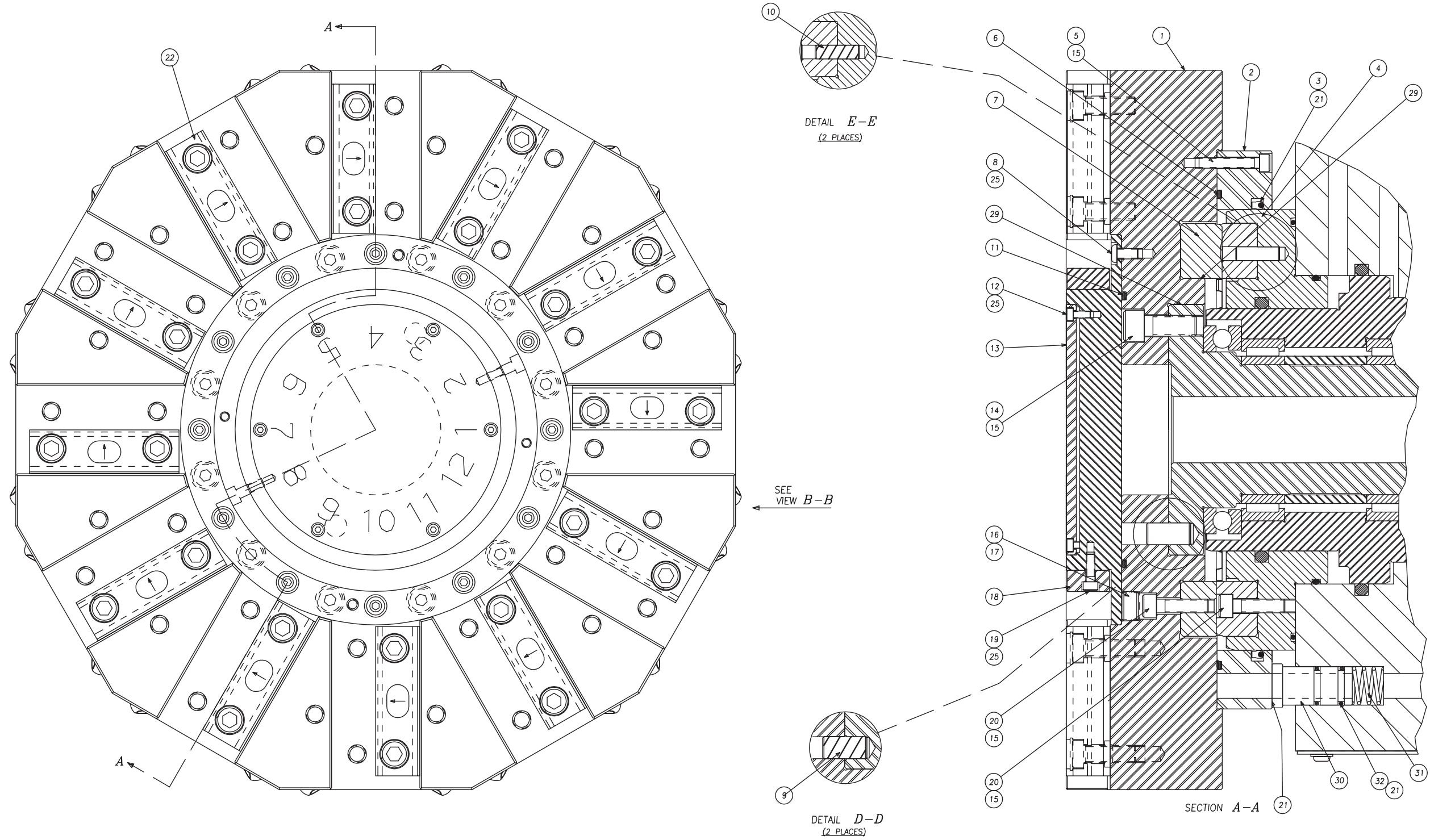
27

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

NAME TOP PLATE ASSEMBLY
STANDARD TOOLING
(10 STATION)

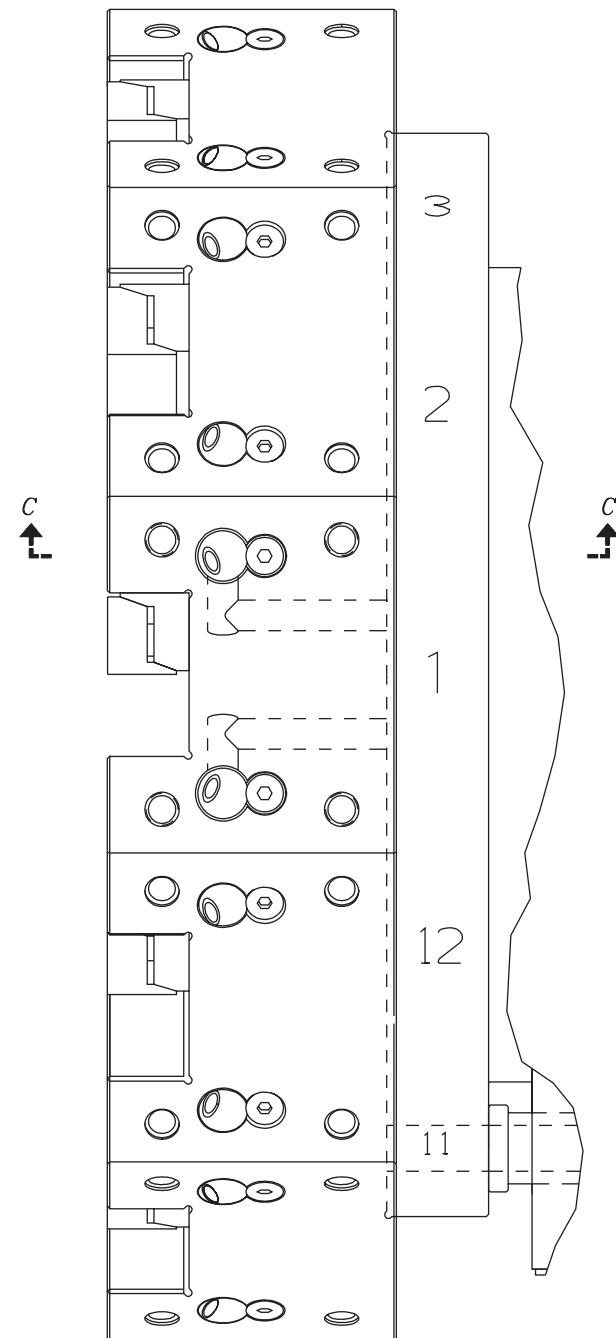
PART NUMBER
CLA-0007214-E1
SHEET 2 of 3

Turret Top Plate Assembly, English, 12 Station

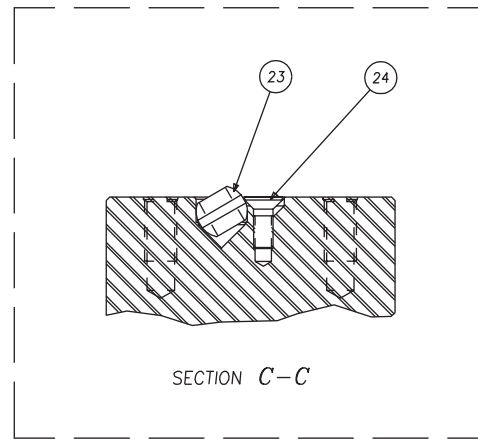


NAME TOP PLATE ASSEMBLY
STANDARD TOOLING

IS NOT PERMITTED
PART NUMBER
CLA-0007214-E
SHEET 1 of 3



VIEW B-B



26

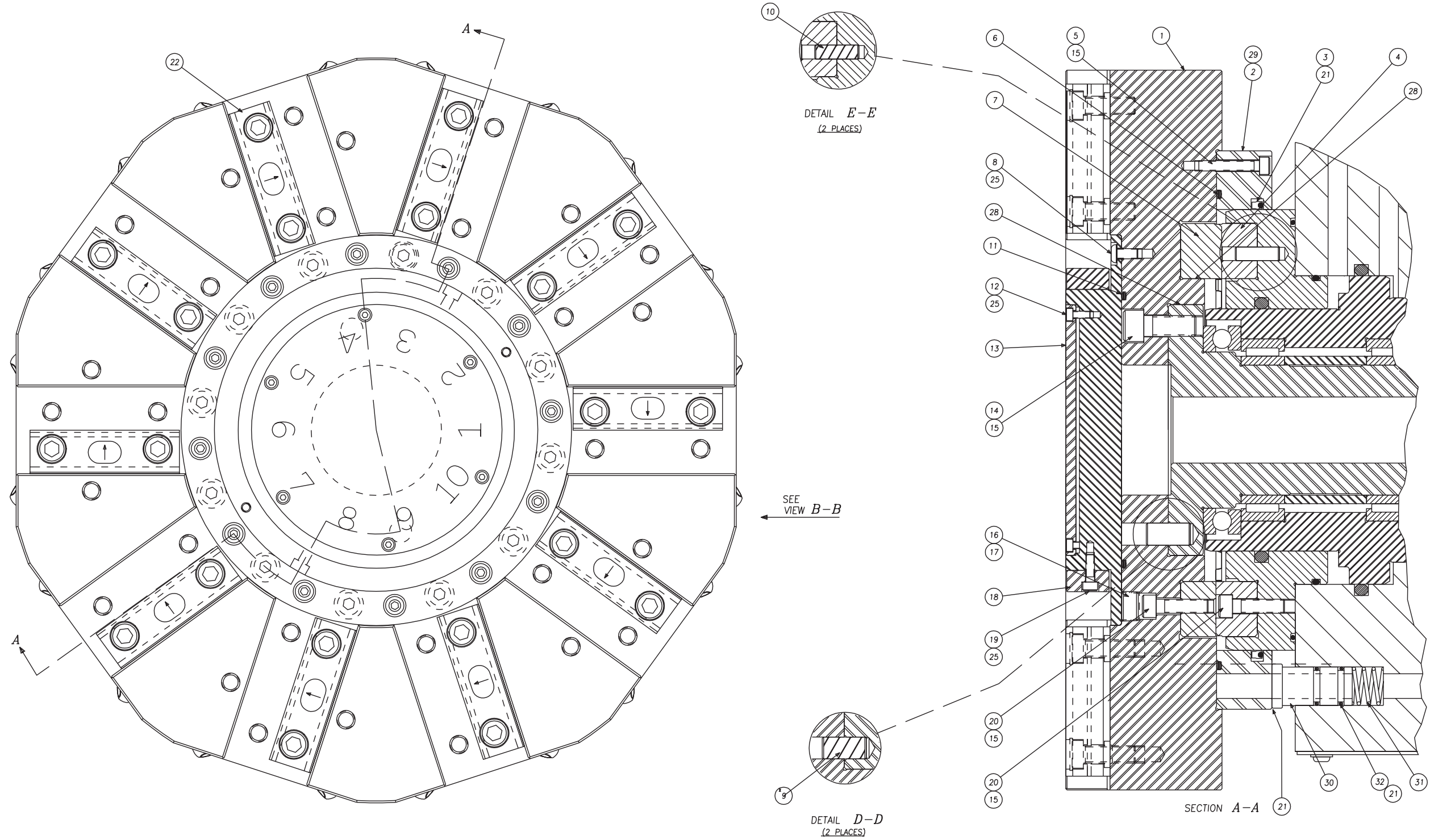
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29	OR-0001114	22	O-RING
31	CL-0009764	1	SPRING
30	CL-0004144	1	BUSHING
29	VS-0010440	.2	ANTISEIZE
27	RF-0011971	2	BAG, MAIL
26	CL-0011890-BT	1	BORING BAR CENTERING GAGE
25	NC-0010884-01	0.20	ADHESIVE, LOCTITE #222
24	MS-0313616	24	M6 SCREW, FLAT HD 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-S	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)
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
TOP PLATE ASSEMBLY
STANDARD TOOLING

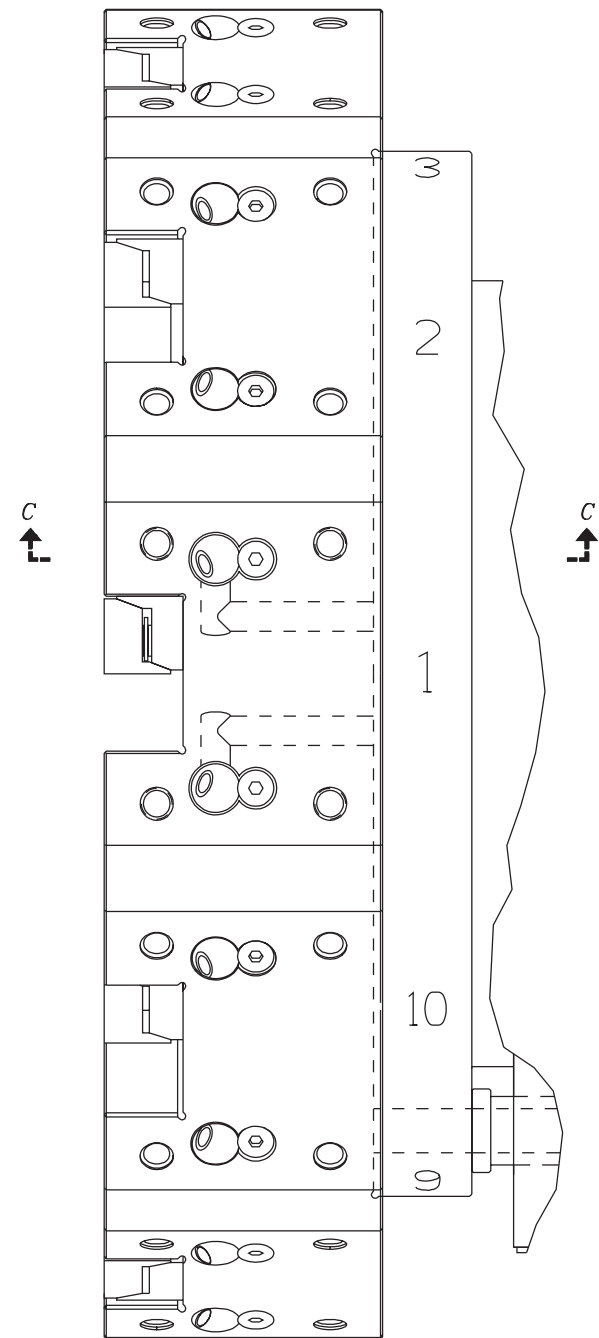
PART NUMBER
CLA-0007214-E
SHEET 2 of 3

Turret Top Plate Assembly, Metric, 10 Station

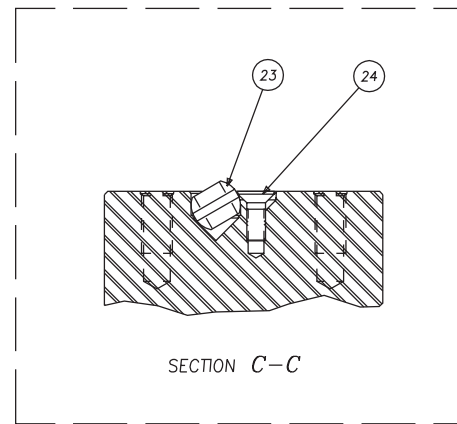


TOP PLATE ASSEMBLY
(25mm METRIC TOOLING)
(10 STATION)

PART NUMBER
CLA-0007214-04
SHEET 1 of 3



VIEW B-B



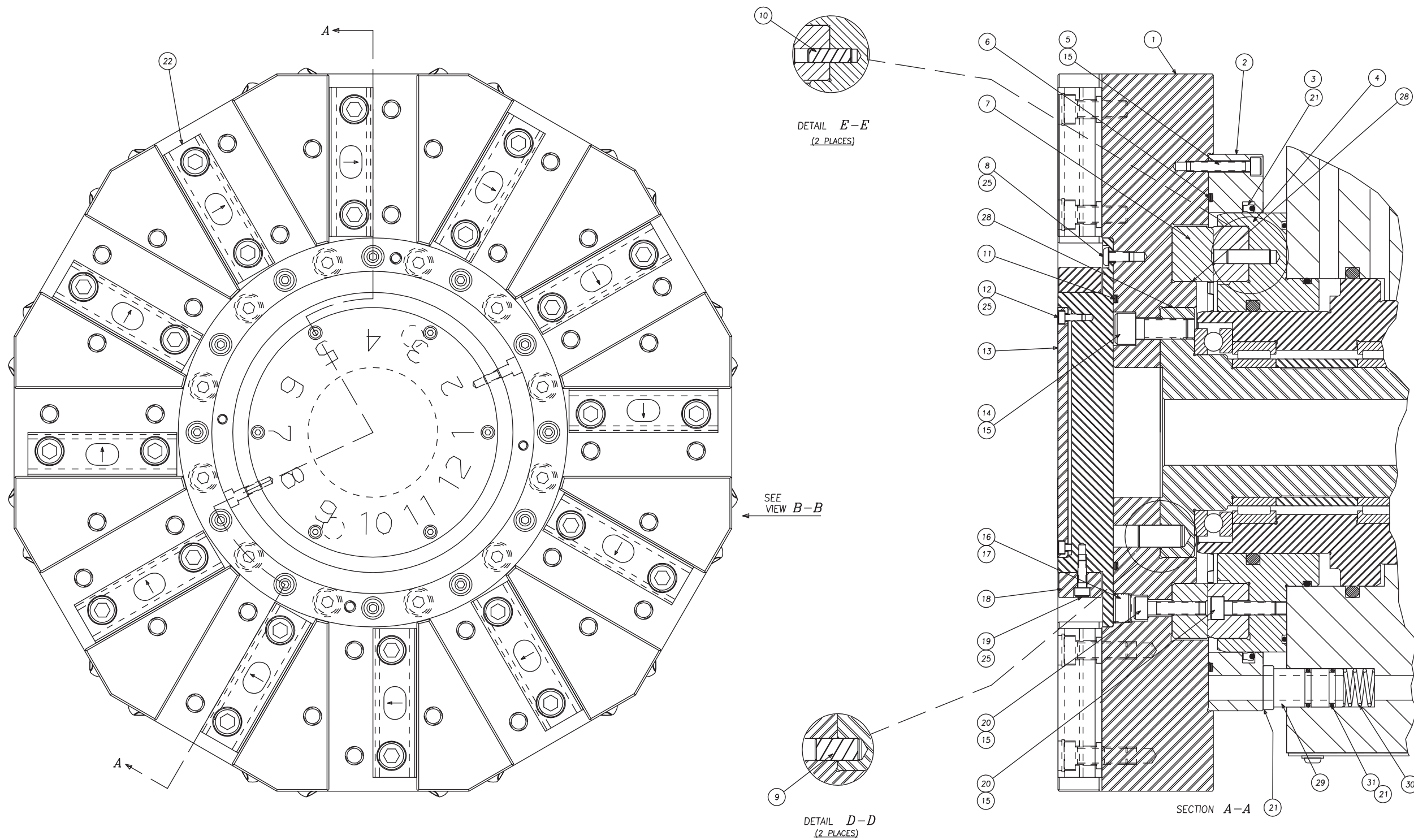
SECTION C-C

ITEM	PART NUMBER	QTY	DESCRIPTION
32	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-D2	1	RING, TOOL STOP (METRIC)
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-0007214-03	1	TOP PLATE, 10 STATION (METRIC)

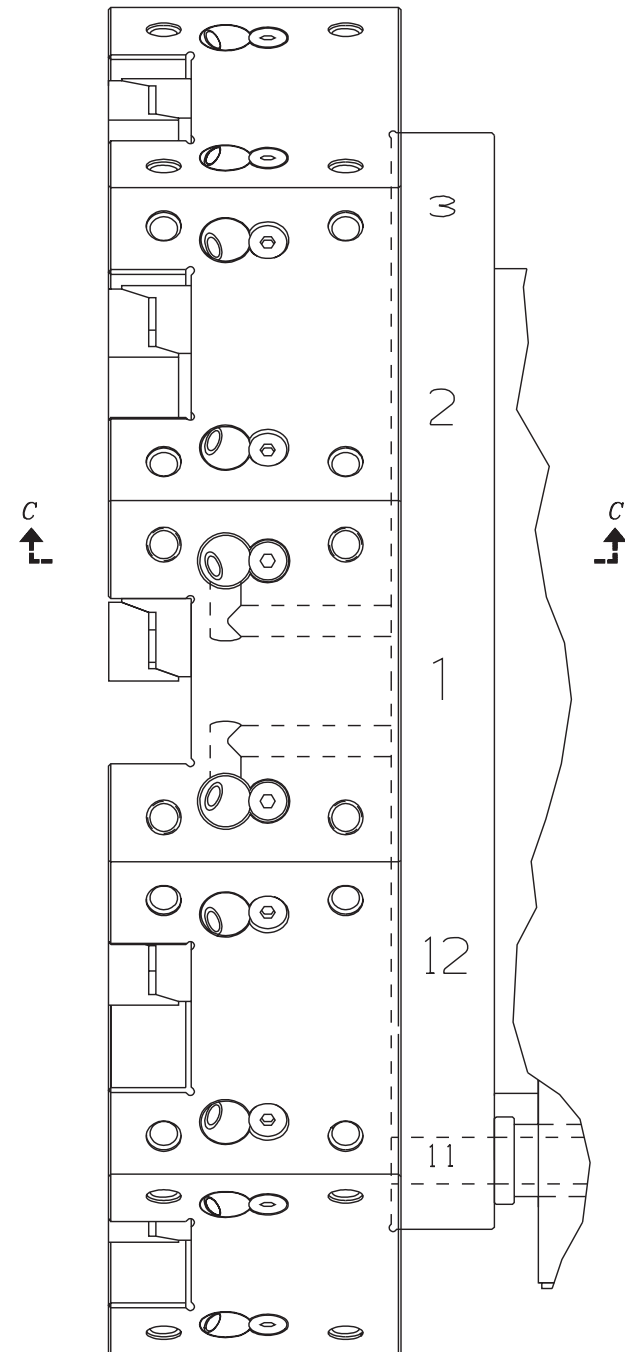
NAME TOP PLATE ASSEMBLY
25mm METRIC TOOLING
(10 STATION)

PART NUMBER CLA-0007214-04
SHEET 2 of 3

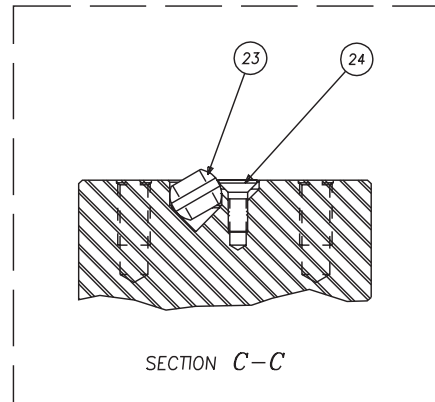
Turret Top Plate Assembly, Metric, 12 Station



NAME TOP PLATE ASSEMBLY (25mm TOOLING) PART NUMBER CLA-0007214-M SHEET 1 of 3



VIEW B-B



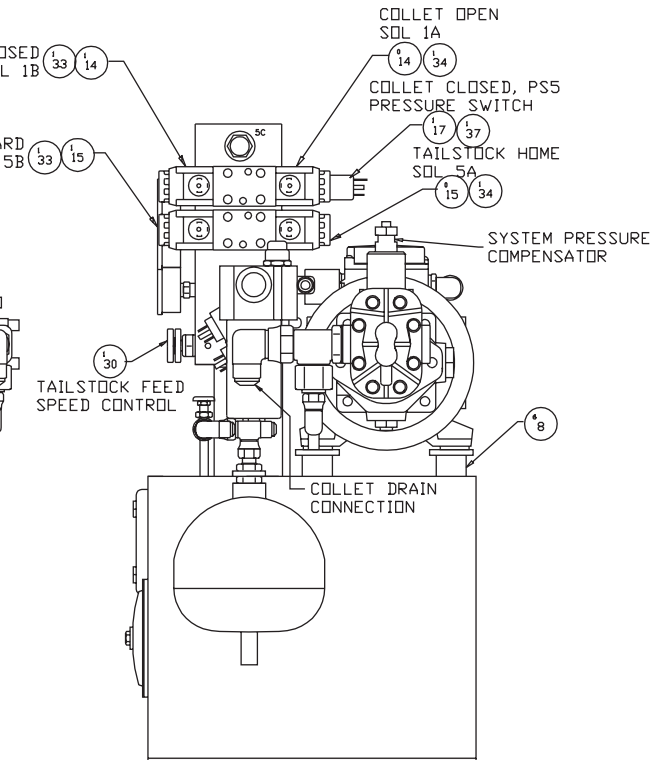
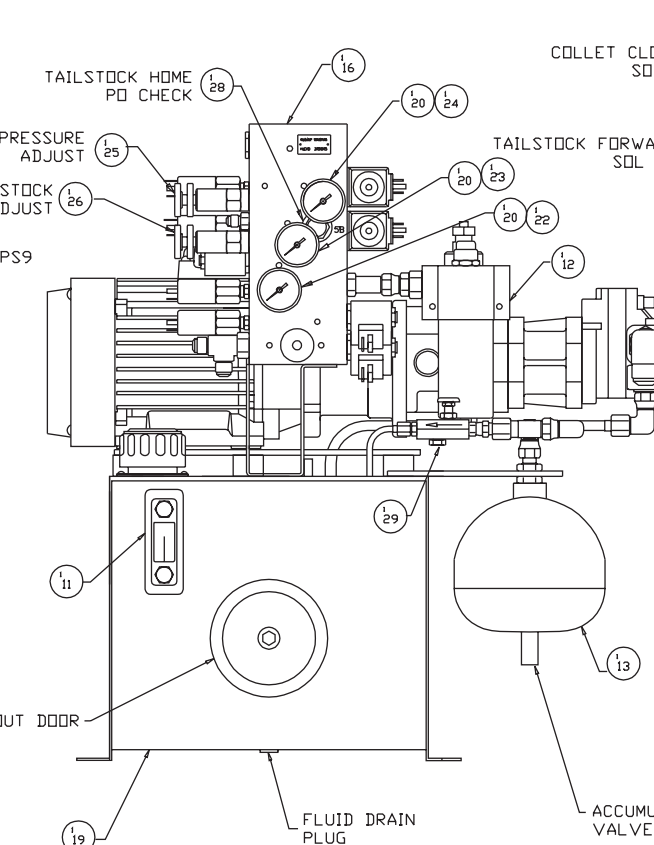
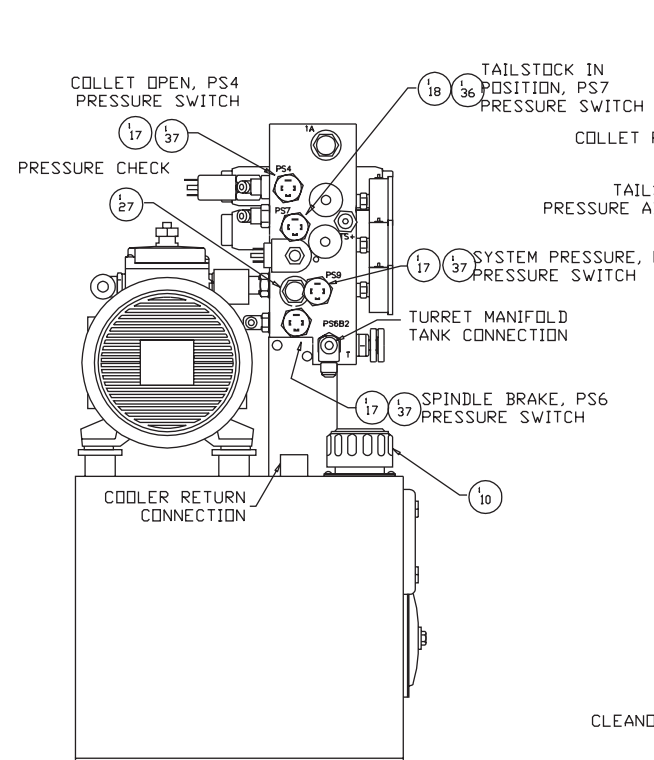
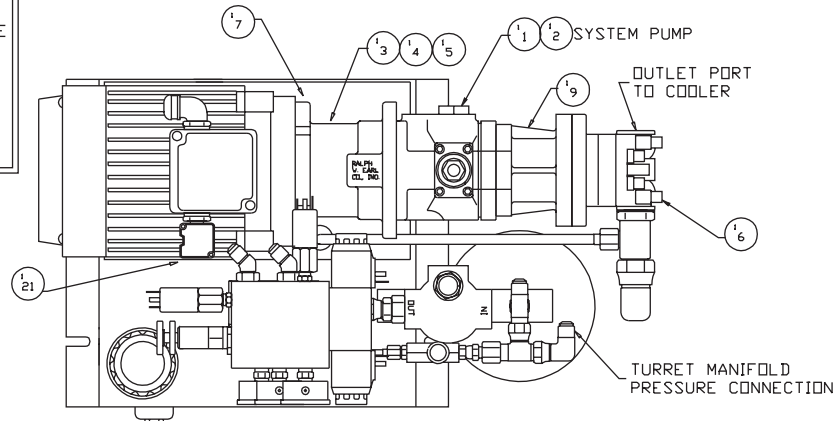
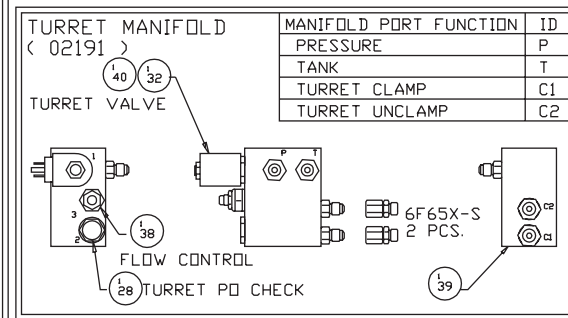
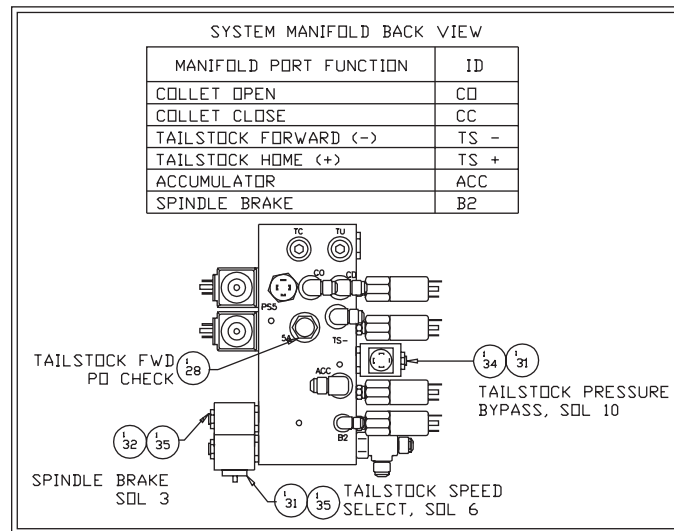
27 26

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-S	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)

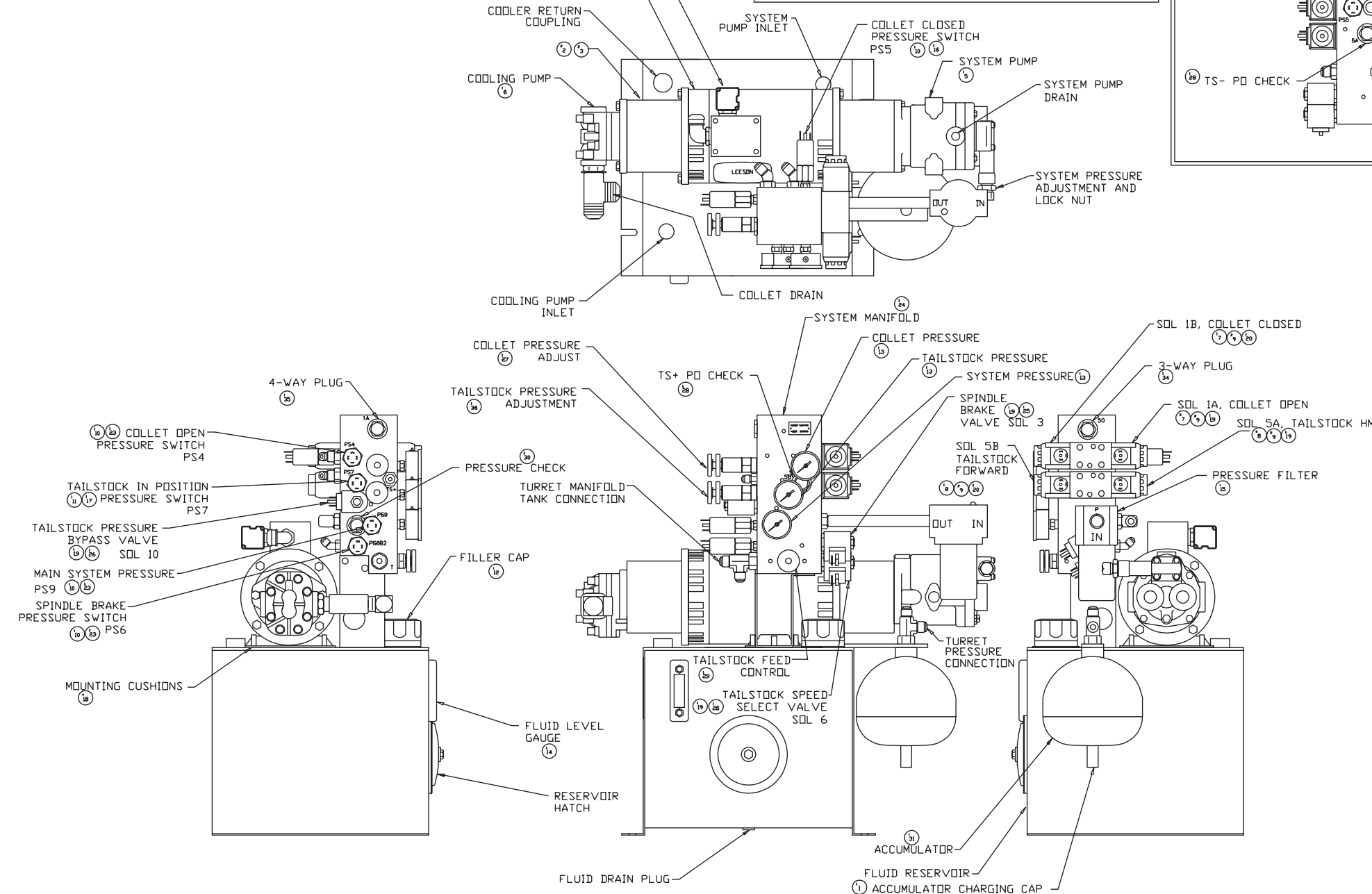
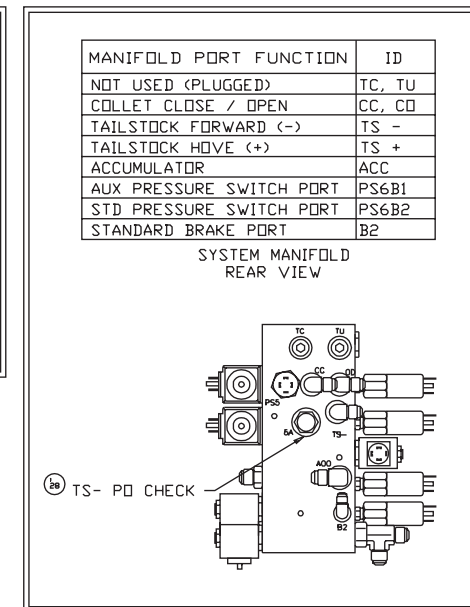
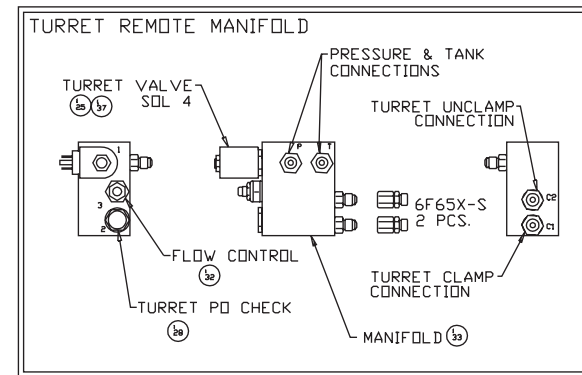
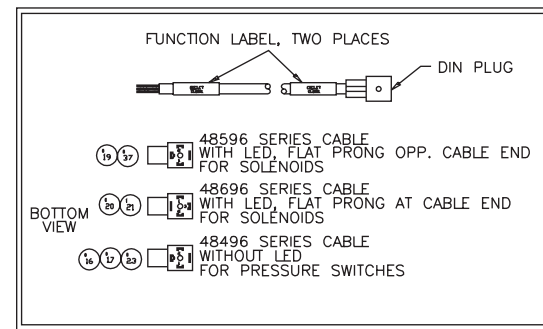
PART NUMBER
CLA-0007214-M
SHEET 2 of 3

**Hydraulic Unit, Machine with Tailstock
CE Mark**



ITEM	HARDINGE PART NO.	QUANTITY	RWE REFERENCE NO.
1	SG 00033253HCE	1.000	VICKERS VVA20-FP-CCWV-21
2	ITEM 2	1.000	MAGNALDY M-100-3/4X1/8
3	ITEM 3	1.000	MAGNALDY M-10028mm X 8mm
4	SG 0011792 P	1.000	MAGNALDY HYTREL 170
5	ITEM 5	1.000	RWE 67995
6	VL 0003325REC	1.000	EATON 26002-RAD
7	ITEM 7	1.000	ABB M3AA-100-LA SHP/SPH
8	ITEM 8	6.000	KARMAN K434
9	ITEM 9	1.000	VICKERS AKVVA20/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 HH9020-A12-KN-RBPT
13	CL 0011614	1.000	DILAIR IH-120-15-100-3
14	CL 000304805	1.000	VICKERS DG4V3S-0C-MUH-5-60
15	CL 000304806	1.000	VICKERS DG4V3S-6C-MUH-5-60
16	ITEM 16	1.000	VICKERS MCD-3595
17	CSA001173602	4.000	CCS 6710P34 60 RISING
18	CSA001173603	1.000	CCS 6710P37
19	ITEM 19	1.000	HS 1565A01
20	ITEM 20	3.000	LENZ AFC-1M-20RC
21	ITEM 21	1.000	MUR 13-030
22	ITEM 22	1.000	RWE 07791
23	ITEM 23	1.000	RWE 07891
24	CL 001011569	1.000	RWE 07591
25	CL 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	2.000	VICKERS SV4-10-C-0-24DG
32	CL 000304807	2.000	VICKERS SV1-10-4-0-24DG
33	ITEM 33	2.000	CABLE 48696-D-01-048
34	ITEM 34	3.000	CABLE 48596-D-01-048
35	ITEM 35	2.000	CABLE 48596-G-01-057
36	ITEM 36	1.000	CABLE 48396-D-01-048
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	1.000	CABLE 48596-I-00-252

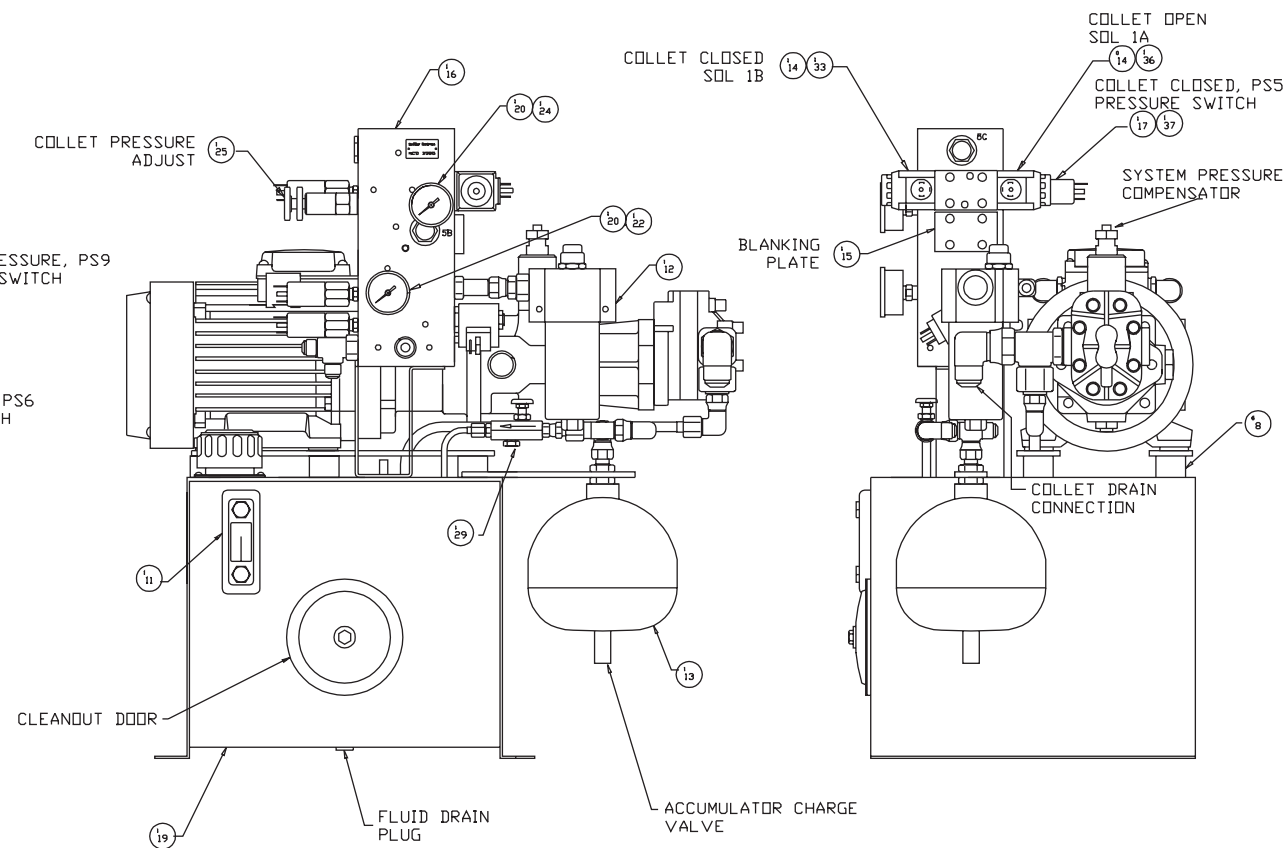
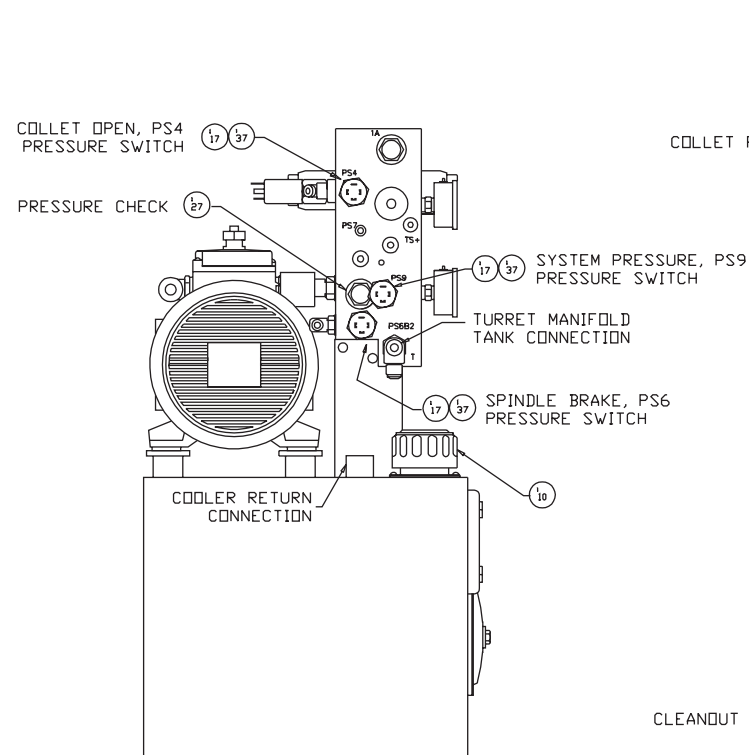
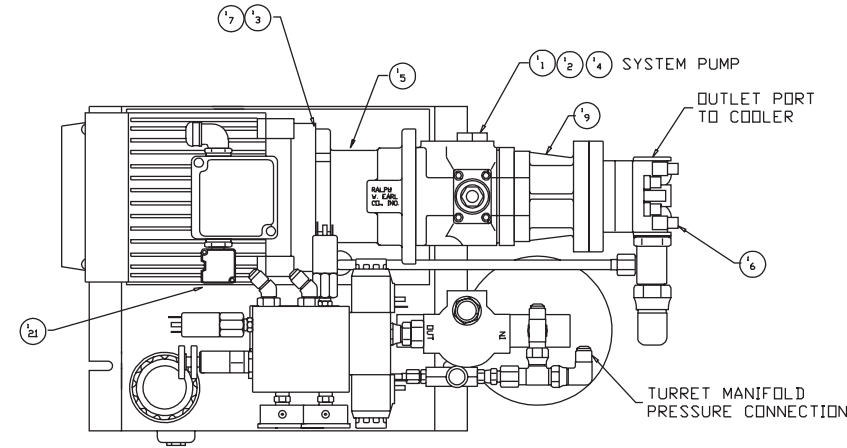
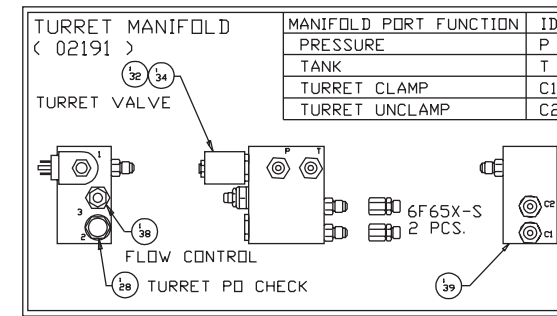
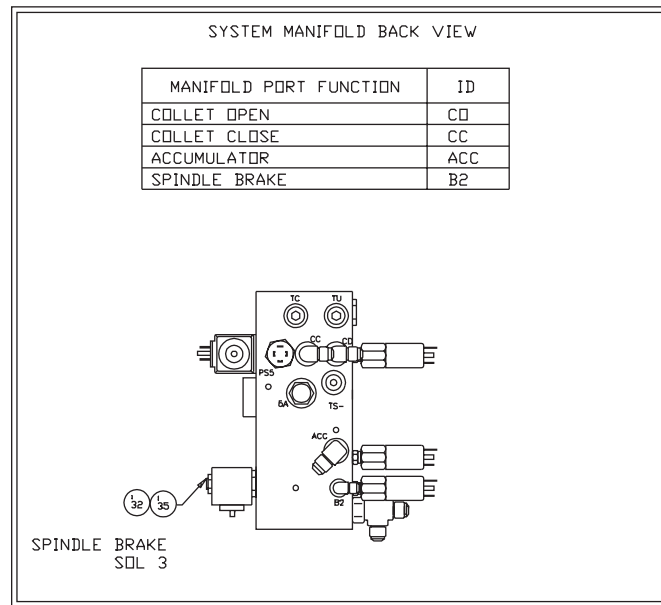
Revised: August 17, 1999



ITEM	HARDINGE PART NO.	QUANTITY	RWE REFERENCE NO.
1	CL 0003310 R	1.000	HYDRD SYSTEMS 31690 10 GAL
2	CL 000838401	2.000	MAGNALDY M056422A
3	SG 0011792	2.000	MAGNALDY PM-90
4	CL 000933201	1.000	LEESON 113776
5	ITEM 5	1.000	VICKERS PVQ13A2LSE1S10C14
6	VL 0003325REC	1.000	EATON 26002-RAD 2 GPM
7	CL 000304805	1.000	VICKERS DG4V35-DC-MUH-5-60
8	CL 000304806	1.000	VICKERS DG4V35-6C-MUH-5-60
9	ITEM 9	8.000	MOUNTING BDLTS 10-24X1-1/4
10	CSA001173602	4.000	CCS 6710P34 60 RISING
11	CSA001173603	1.000	CCS 6710P37 40 FALLING
12	CL 0000537	1.000	LENZ FCS-537
13	ITEM 13	3.000	LENZ AFC-1M-20RC GAUGE
14	SG 0011537	1.000	LBI G1615-03-A-1
15	SG 001077902	1.000	PALL HH-9020A-12-KN-RBPT
16	ITEM 16	1.000	CABLE 48496-D-01-148
17	ITEM 17	1.000	CABLE 48596-F-01-132
18	CS 0010116	4.000	E50027HB VIBRATION MOUNTS
19	ITEM 19	5.000	CABLE 48596-B-01-148
20	ITEM 20	2.000	CABLE 48696-B-01-148
21	ITEM 21	1.000	CABLE 48696-IE01-131
22	ITEM 22	1.000	CARDL CABLE 95255
23	ITEM 23	3.000	CABLE 48496-E-01-132
24	ITEM 24	1.000	MDD CNT MCD-3595
25	CL 000304807	2.000	MDD CNT SV1-10-4-0-24DG
26	CL 000304808	2.000	MDD CNT SV4-10-C-0-24DG
27	CS 000304804	1.000	MDD CNT PRV1-10-K-0-6/
28	CS 001145207	3.000	MDD CNT SPC2-10-P-0-25
29	CL 001145203	1.000	MDD CNT FCV7-10-K-0-NVF
30	ITEM 30	1.000	MDD CNT CV1-10-P-0-5
31	ITEM 31	1.000	DILAIR 1H-120-15-100-3
32	ITEM 32	1.000	MDD CNT FCV7-10-S-D-FF
33	ITEM 33	1.000	MV 93-0513
34	ITEM 34	1.000	MDD CNT 20602
35	ITEM 35	1.000	MDD CNT 20603
36	CL 000304811	1.000	MDD CNT PRV1-10-K-0-12/
37	ITEM 37	1.000	CABLE 48596-1-00-252
38	ITEM 38	1.000	MUR 23-030 SURGE SUPPRESSOR

Revised: August 17, 1999

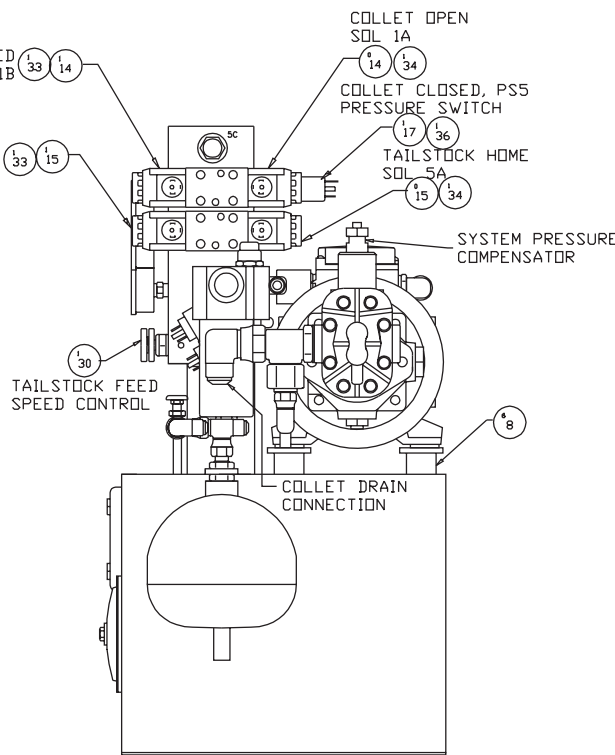
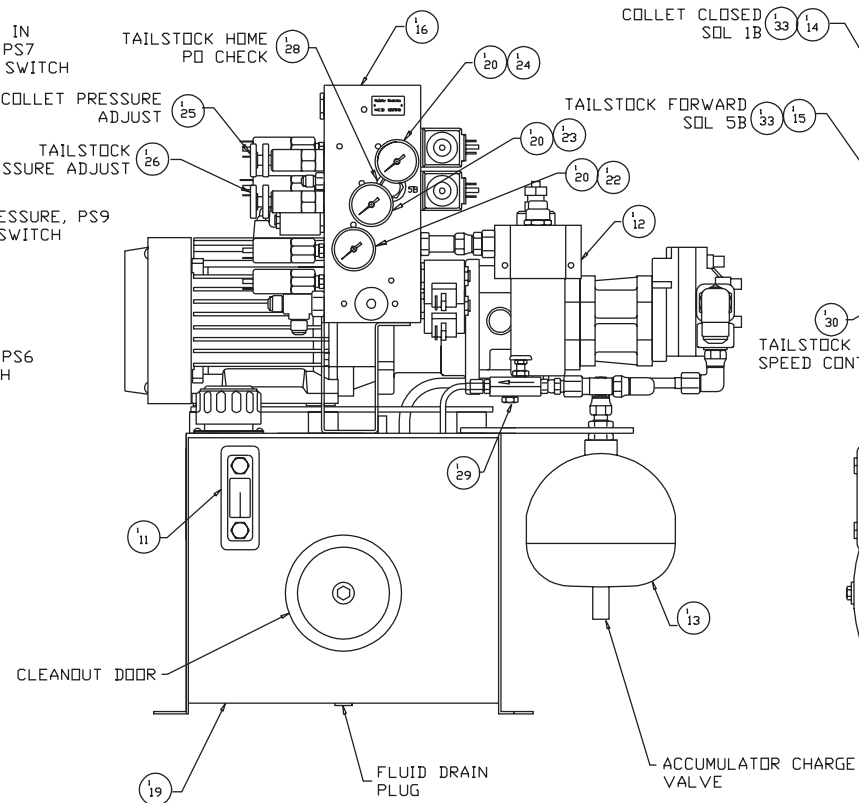
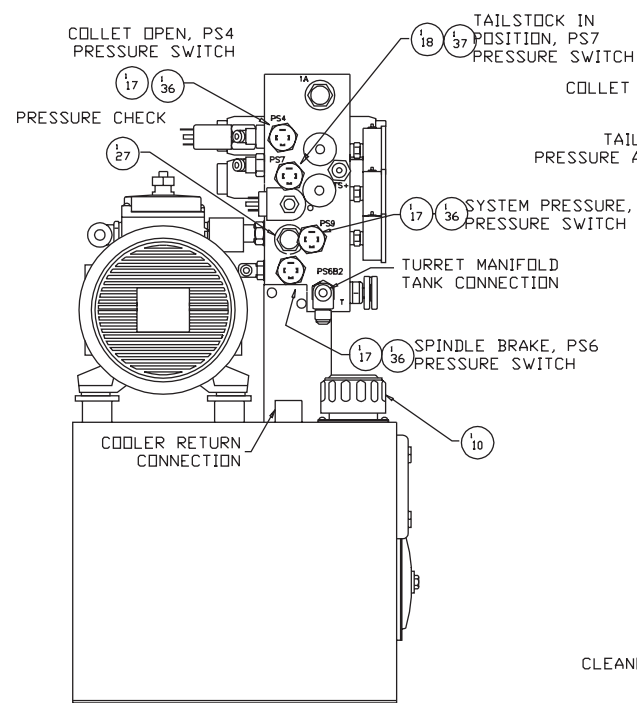
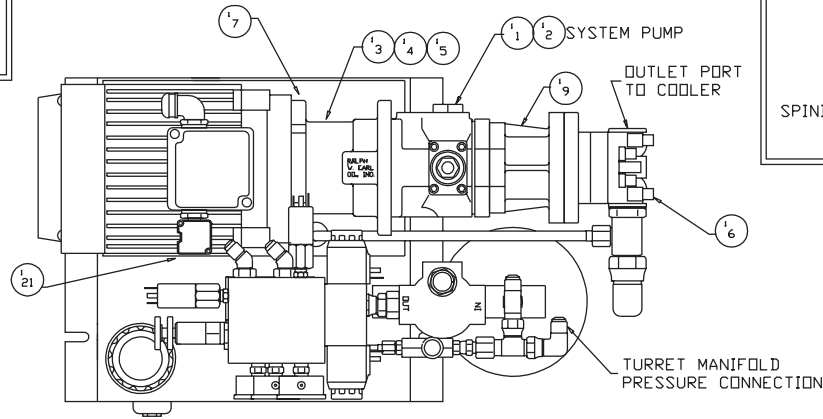
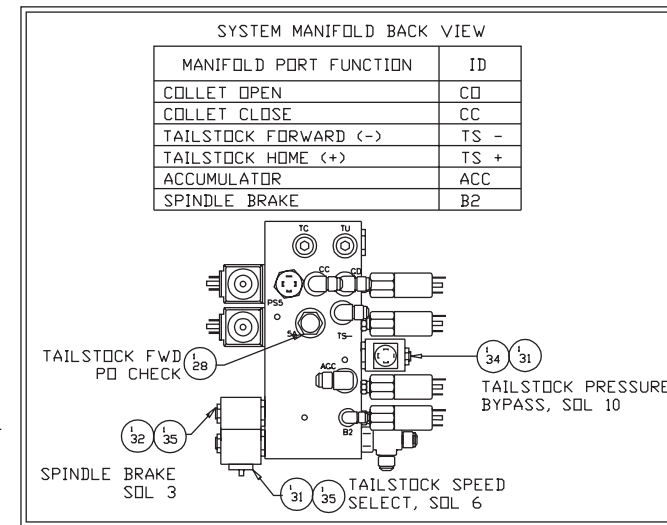
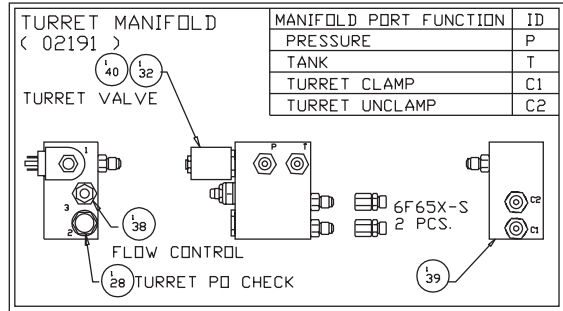
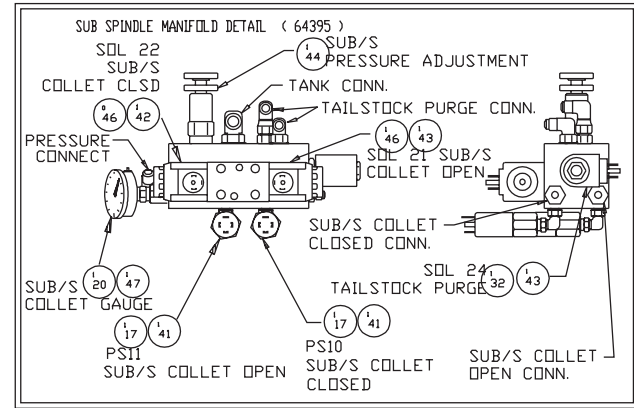
Hydraulic Unit, Machine without Tailstock CE Mark



ITEM	HARDINGE PART NO.	QUANTITY	RWE REFERENCE NO.
1	SG 00033253HCE	1.000	VICKERS VVA20-FP-CCWW-21
2	ITEM 2	1.000	MAGNALDY M-100-3/4-1/8
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 #H434
9	ITEM 9	1.000	VICKERS AKVVA20/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 HH9020-A12-KN-RBPT
13	ITEM 13	1.000	DILAIR 1H-120-15-100-3
14	CL 000304805	1.000	VICKERS DG4V3S-DC-MUH-5-60
15	ITEM 15	1.000	DAMAN A D03-CP-P
16	ITEM 16	1.000	VICKERS MCD-3595
17	CSA001173602	4.000	CCS 6710P34 60 RISING
19	ITEM 19	1.000	HS 15695A01
20	ITEM 20	2.000	LENZ AFC-1M-20RC
21	ITEM 21	1.000	MUR 23-030
22	ITEM 22	1.000	RWE 07791
24	CL 001011569	1.000	RWE 07591A00
25	CS 000304804	1.000	VICKERS PRV1-10-K-0-6/
27	ITEM 27	1.000	VICKERS CV1-10-P-0-5
28	CS 001145207	1.000	VICKERS SPC2-10-P-0-5
29	ITEM 29	1.000	DELTRDL FM620-SK
32	CL 000304807	2.000	VICKERS SV1-10-4-0-24DG
33	ITEM 33	1.000	CABLE 48696-D-01-048
34	ITEM 34	1.000	CABLE 48596-I-00-252
35	ITEM 35	1.000	CABLE 48596-G-01-057
36	ITEM 36	1.000	CABLE 48596-D-01-048
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

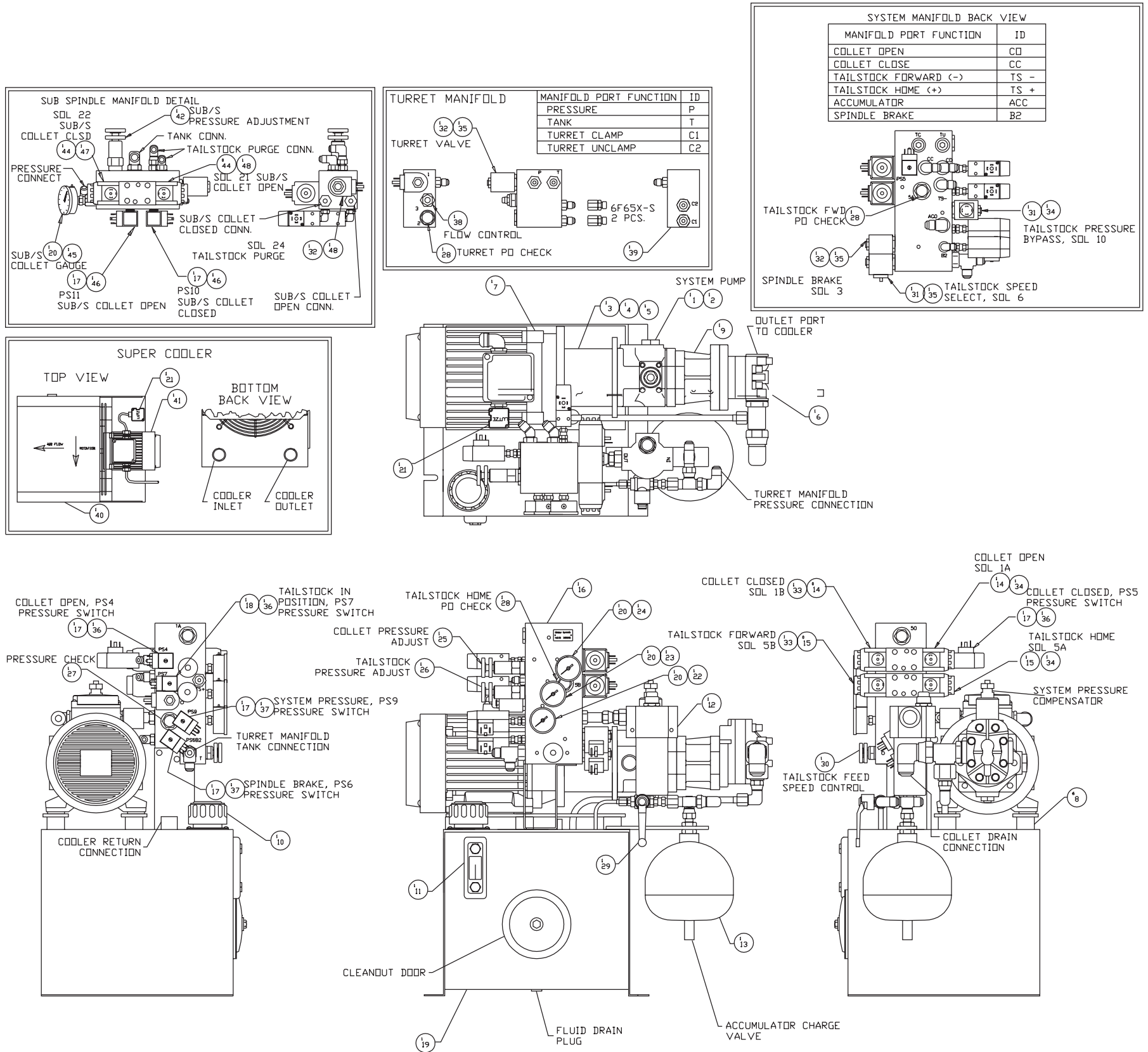
Revised: August 17, 1999

**Hydraulic Unit, Machine with Hydraulic Sub-Spindle
CE Mark**



ITEM	HARDINGE PART NO.	QUANTITY	RVE REFERENCE NO.
1	SG 0003253HCE	1.000	VICKERS VVA20-FP-CCVV-21
2	ITEM 2	1.000	MAGNALDY M-100-3/4XL/8
3	ITEM 3	1.000	MAGNALDY M-10028mm X 8mm
4	SG 0011792 P	1.000	MAGNALDY HYTREL 170
5	ITEM 5	1.000	RWE 67995
6	VL 000325REC	1.000	EATON 26002-RAD
7	ITEM 7	1.000	ABB M3AA-100-LA SHP/SPH
8	ITEM 8	6.000	KARMAN K434
9	ITEM 9	1.000	VICKERS AKVVA20/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 HH9020-A12-KN-RBPT
13	CL 0011614	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	6.000	CCS 6710P34
18	CSA001173603	1.000	CCS 6710P37
19	ITEM 19	1.000	HS 1565A01
20	ITEM 20	4.000	LENZ AFC-1M-20RC
21	ITEM 21	1.000	MUR 13-030
22	ITEM 22	1.000	RWE 07791
23	ITEM 23	1.000	RWE 07891
24	CL 00101569	1.000	RWE 07591
25	CL 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	2.000	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	3.000	CABLE 48596-D-01-048
35	ITEM 35	2.000	CABLE 48596-G-01-057
36	ITEM 36	4.000	CABLE 48396-C-01-048
37	ITEM 37	1.000	CABLE 48396-D-01-048
38	ITEM 38	1.000	VICKERS FCV7-10-S-0-FF
39	ITEM 39	1.000	MW 93-0513
40	ITEM 40	1.000	CABLE 48596-I-00-252
41	ITEM 41	2.000	CABLE 48396-B-00-146
42	ITEM 42	1.000	CABLE 48696-B-01-148
43	ITEM 43	2.000	CABLE 48596-B-01-148
44	ITEM 44	1.000	VICKERS PRV1-4044
46	VL 0003048CCDV	1.000	VICKERS DG4V3S-2N-MUH5-60
47	ITEM 47	1.000	RWE 06794

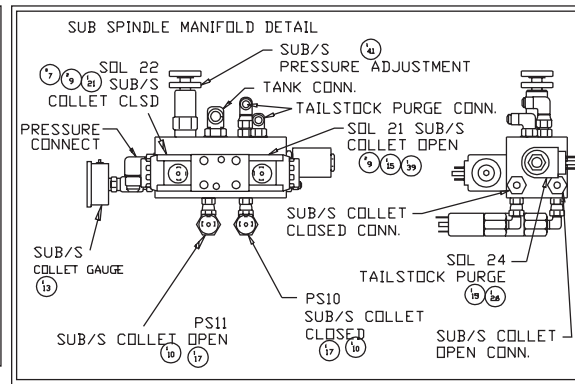
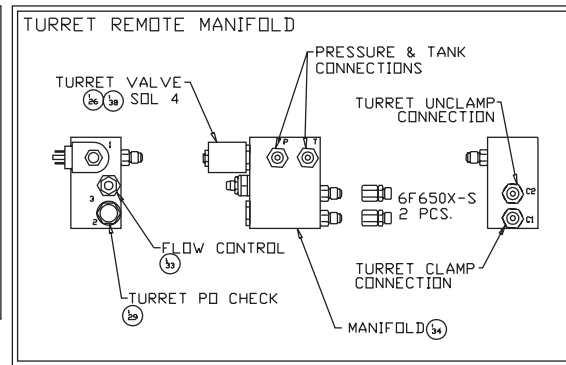
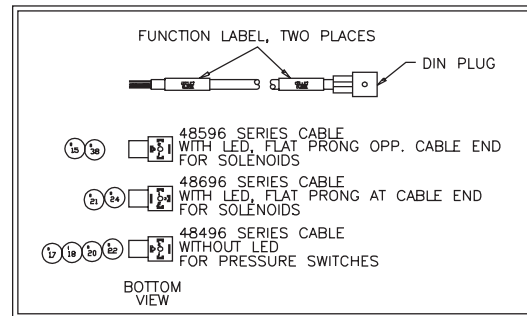
Revised: August 17, 1999



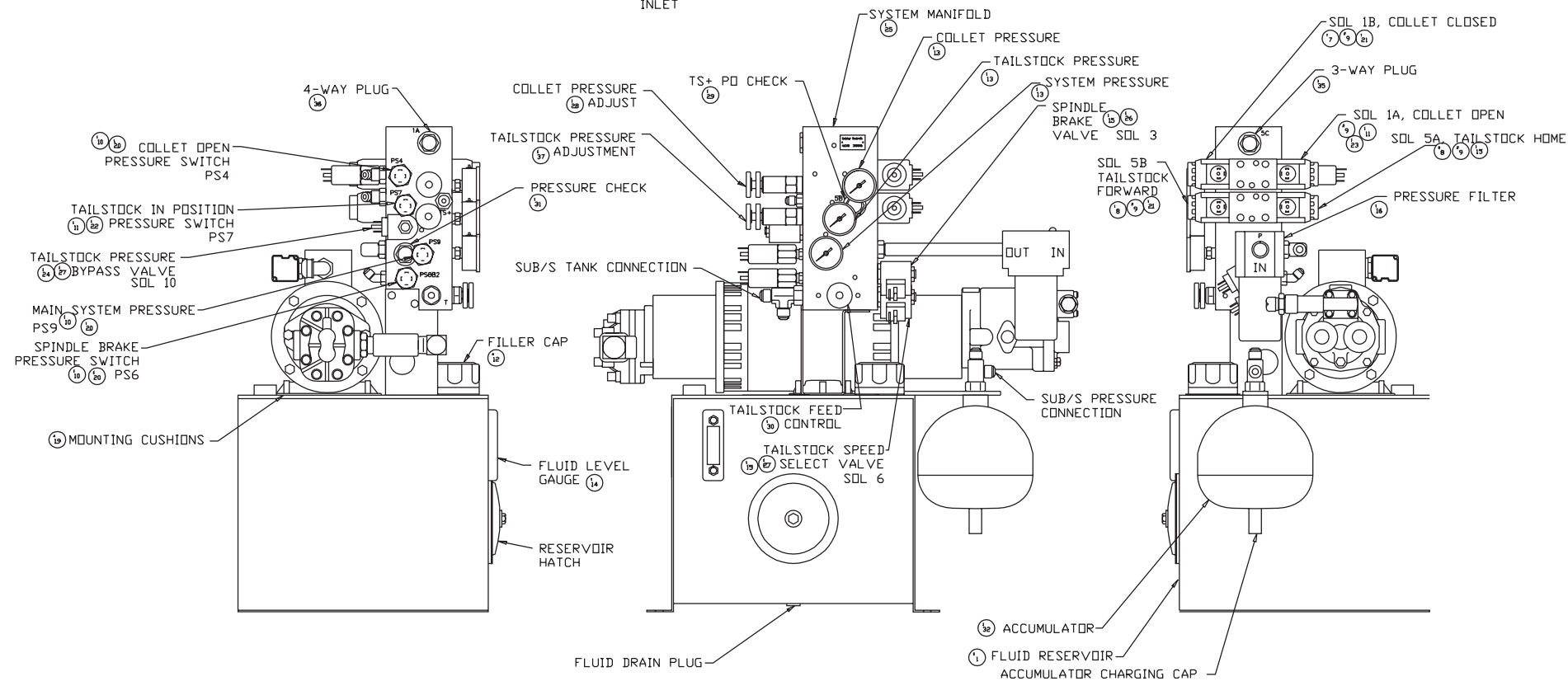
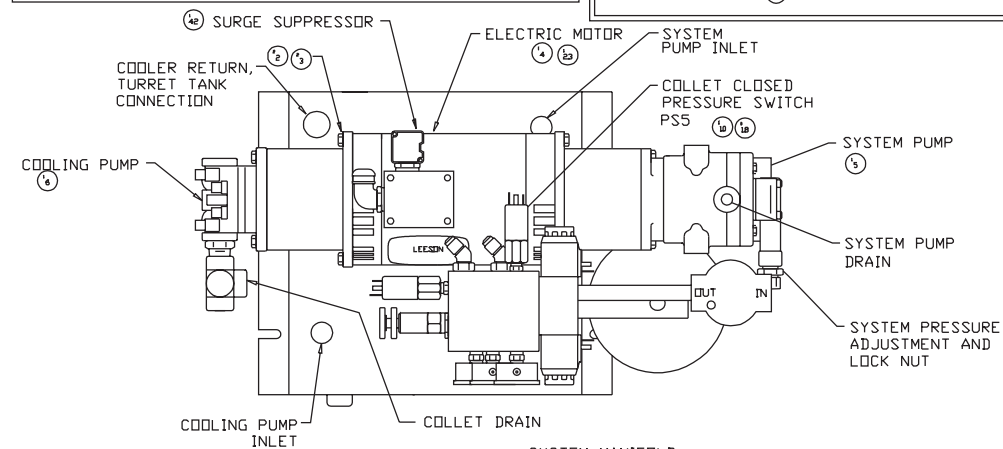
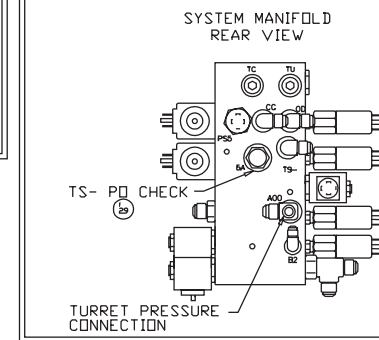
ITEM	HARDINGE PART NO.	QUANTITY	RWE REFERENCE NO.
1	SG 0003253HCE	1.000	VICKERS VVA20-FP-CCWW-21
2	ITEM 2	1.000	MAGNALDY M-100-3/4X1/8
3	ITEM 3	1.000	MAGNALDY M-100-28mm X 8mm
4	SG 0011792 P	1.000	MAGNALDY 170-HYTRFL
5	ITEM 5	1.000	BSF 1204-130mm-X-4.63
6	ITEM 6	1.000	EATON 26002-RZC
7	ITEM 7	1.000	ABB MT100LA 3HP 230V/3PH/50HZ
8	ITEM 8	6.000	KARMAN #K34
9	ITEM 9	1.000	VICKERS AKVVA20/V10
10	CL 0000537	1.000	LENZ FCS-537
11	ITEM 11	1.000	DMIC LTS-3000
12	SG 001077902	1.000	PALL HH9020-A12-KN-RBPT
13	CL 0011614	1.000	DILAIR IH-120-1-100-3
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	VL 001173601	6.000	SUCO 0161-437-141-001-60RSNG
18	VL 0011736	1.000	SUCO 0161-437-141-001-40FALLNG
19	ITEM 19	1.000	HS 15695A01
20	CS 0011537	4.000	DMIC CX20BGSB10N
21	ITEM 21	2.000	LUTZ 700372
22	ITEM 22	1.000	RWE 07791
23	ITEM 23	1.000	RWE 07891
24	CL 00101569	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 CVI-10-P-0-5
28	CS 001145207	3.000	VICKERS SPC2-10-P-0-25
29	ITEM 29	1.000	DMIC BVM-0250S-L111-LH03
30	CL 001145203	1.000	VICKERS FCV7-10-K-0-NVF
31	CL 000304808	2.000	VICKERS SV4-10-C-0-24DG
32	CL 000304807	3.000	VICKERS SV1-10-4-0-24DG
33	ITEM 33	2.000	CABLE 08195A00P5
34	ITEM 34	3.000	CABLE 08295A00P7
35	ITEM 35	3.000	CABLE 08295A00P8
36	ITEM 36	3.000	CABLE 08395A00P9
37	ITEM 37	2.000	CABLE 08395A00P10
38	ITEM 38	1.000	VICKERS FCV7-10-S-0-FF
39	ITEM 39	1.000	MW 93-0513
40	CS 001030209	1.000	T TRANSFER ADF-10-78115
41	SG 0000128 M	1.000	ABB MT-63-B 1/4 HP CE
42	ITEM 42	1.000	VICKERS PRV1-4044
44	VL 0003048CCDV	1.000	VICKERS DG4V3S-2N-MUH5-60
45	ITEM 45	1.000	RWE 06794
46	ITEM 46	2.000	CABLE 08395A00P2
47	ITEM 47	1.000	CABLE 08195A00P2
48	ITEM 48	2.000	RWE 08295A00P4

Revised: August 17, 1999

Hydraulic Unit, Machine with Hydraulic Sub-Spindle Non-CE Mark

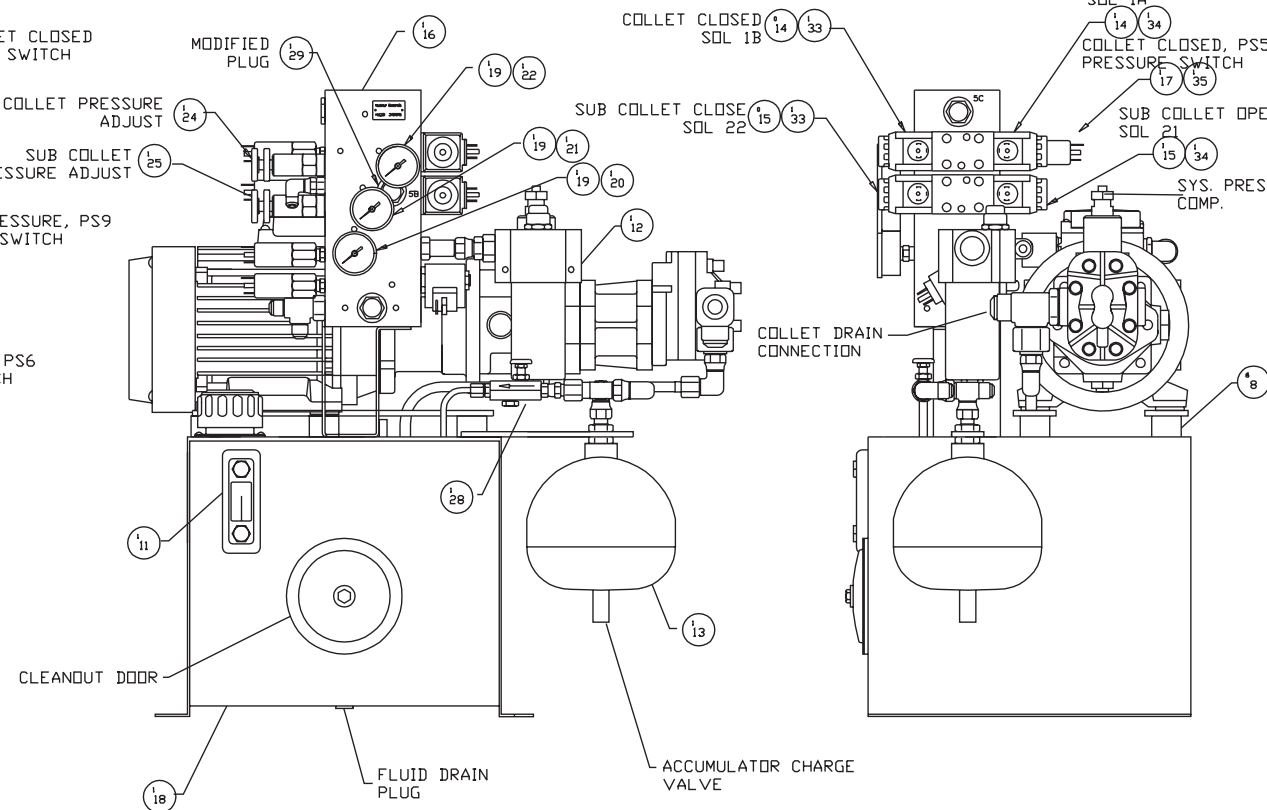
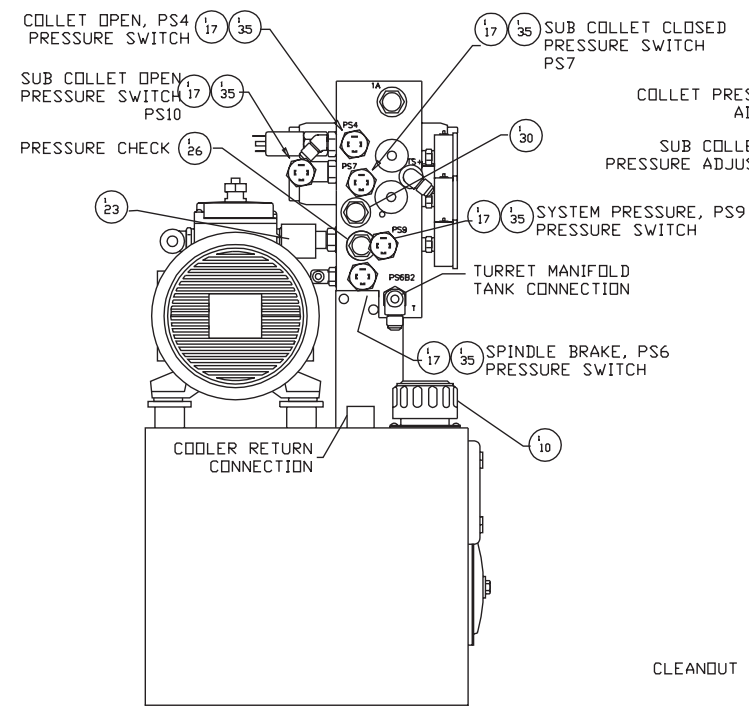
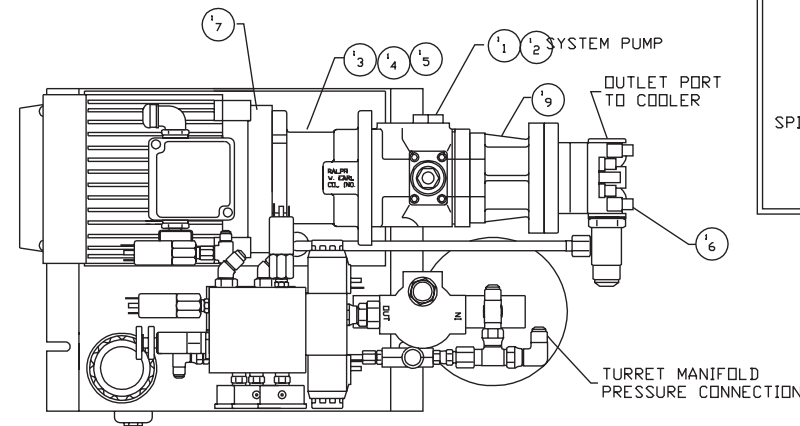
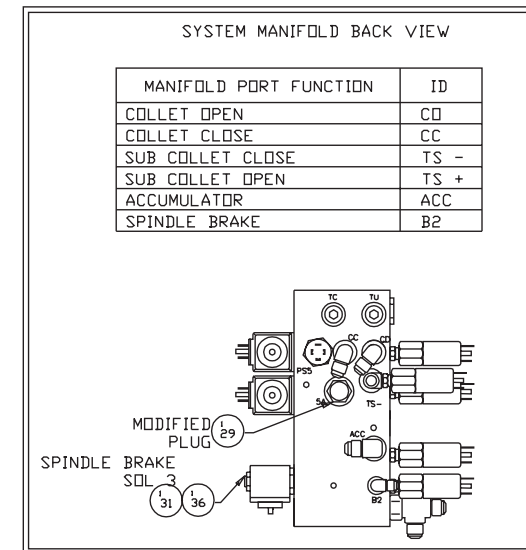
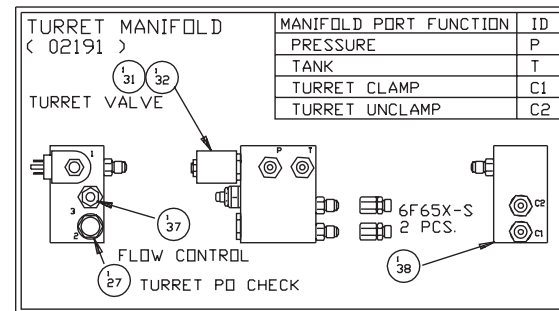


MANIFOLD PORT FUNCTION	ID
NOT USED (PLUGGED)	TC, TU
COLLET CLOSE / OPEN	CC, CD
TAILSTOCK FORWARD (-)	TS -
TAILSTOCK HOME (+)	TS +
ACCUMULATOR	ACC
AUX PRESSURE SWITCH PORT	PS6B1
STD PRESSURE SWITCH PORT	PS6B2
STANDARD BRAKE PORT	B2



ITEM	HARDINGE PART NO.	QUANTITY	RVE REFERENCE NO.
1	CL 0003310 R	1.000	HYDRO SYSTEMS 31690 10 GAL.
2	CL 000838401	2.000	MAGNALDY M056422A
3	SG 0011792	2.000	MAGNALDY PM-90
4	CL 000933201	1.000	LEESON I13776
5	ITEM 5	1.000	VICKERS PV013AB2LSE1510C14
6	VL 0003325REC	1.000	EATON 26002-RAD
7	CL 000304805	1.000	VICKERS DG4V3S-DC-MUH5-60
8	CL 000304806	1.000	VICKERS DG4V3S-6C-MUH5-60
9	ITEM 9	12.000	MOUNTING BOLTS 10-24X1-1/4
10	CSA001173602	6.000	CCS 6710P34 60 FALLING
11	CSA001173603	2.000	CCS 6710P37 40 FALLING
12	ITEM 12	4.000	LENZ AFC-1M-20RC GAUGE
13	ITEM 13	4.000	LENZ AFC-1M-20RC GAUGE
14	SG 0011537	1.000	LDI G1615-03-A-1 SIGHT GLASS
15	ITEM 15	5.000	CABLE 48596-B-01-148
16	SG 001077902	1.000	PALL HH-9020A-12KORRBT
17	ITEM 17	2.000	CABLE 48496-G-00-146
18	ITEM 18	1.000	CABLE 48496-D-01-148
19	CS 0010116	4.000	ES0027HB VIBRATION MOUNTS
20	ITEM 20	3.000	CABLE 48496-E-01-132
21	ITEM 21	3.000	CABLE 48696-B-01-148
22	ITEM 22	1.000	CABLE 48496-F-01-132
23	ITEM 23	2.000	CARDL 95255 CABLE
24	ITEM 24	1.000	CABLE 48696-E-01-131
25	ITEM 25	1.000	MOD CNT MCD-3595
26	CL 000304807	3.000	MOD CNT SV1-10-4-0-24DG
27	CL 000304808	2.000	MOD CNT SV4-10-C-0-24DG
28	CS 000304804	1.000	MOD CNT PRV1-10-K-0-6/
29	CS 001145207	3.000	MOD CNT SPC2-10-P-0-25
30	CL 001145203	1.000	MOD CNT FCV7-10-K-0-NVT
31	ITEM 31	1.000	MOD CNT CV1-10-P-0-5
32	ITEM 32	1.000	DILAIR IH-120-15-100-3
33	ITEM 33	1.000	MOD CNT FCV7-10-S-D-FF
34	ITEM 34	1.000	MW 93-0513
35	ITEM 35	1.000	MOD CNT 20602
36	ITEM 36	1.000	MOD CNT 20603
37	CL 000304811	1.000	MOD CNT PRV1-10-K-0-12/
38	ITEM 38	1.000	CABLE 48596-1-00-252
39	VL 0003048CCDV	1.000	VICKERS DG4V3S-2N-MUH5-60
41	ITEM 41	1.000	MOD CNT PRV1-4044
42	ITEM 42	1.000	MUR 23-030 SURGE SUPPRESSOR

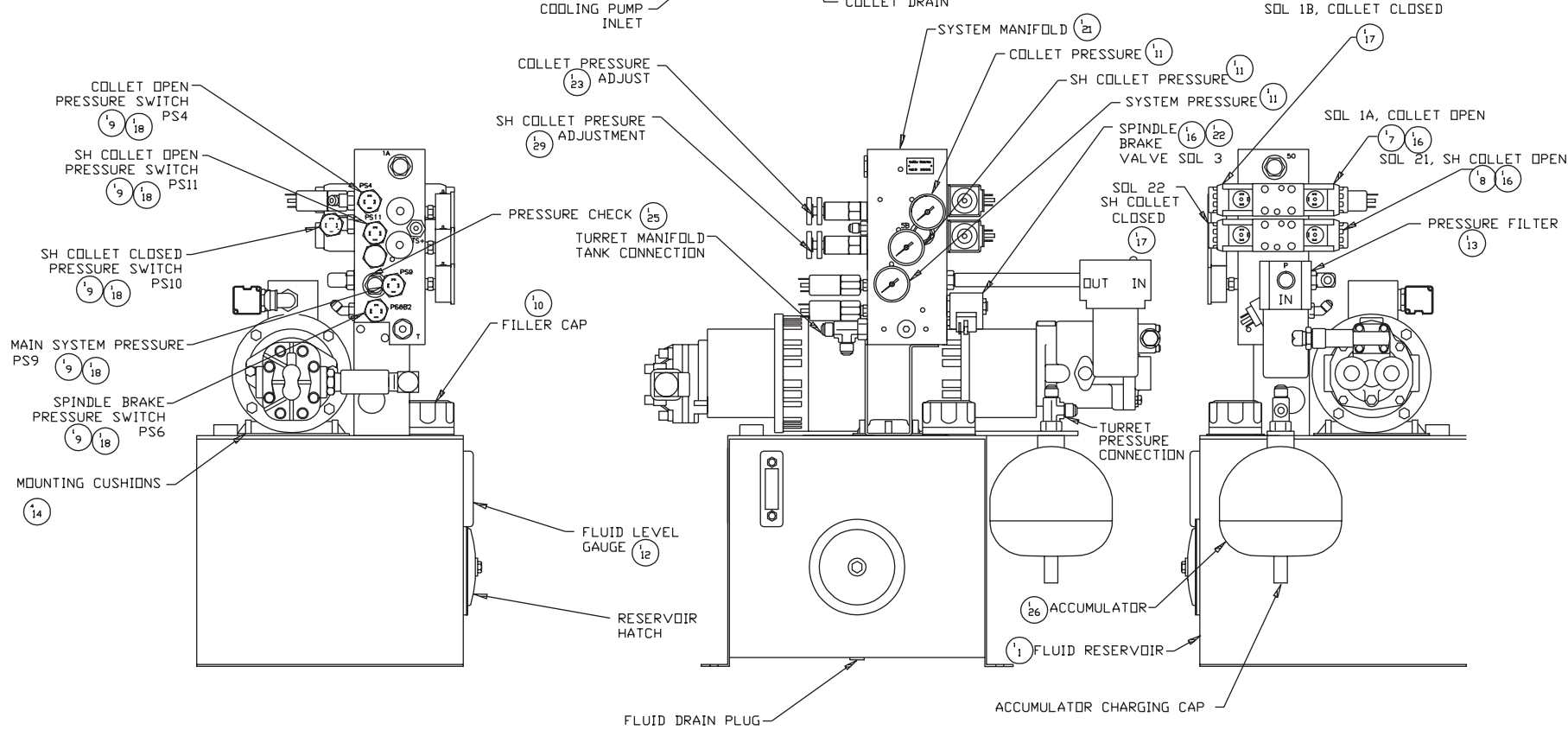
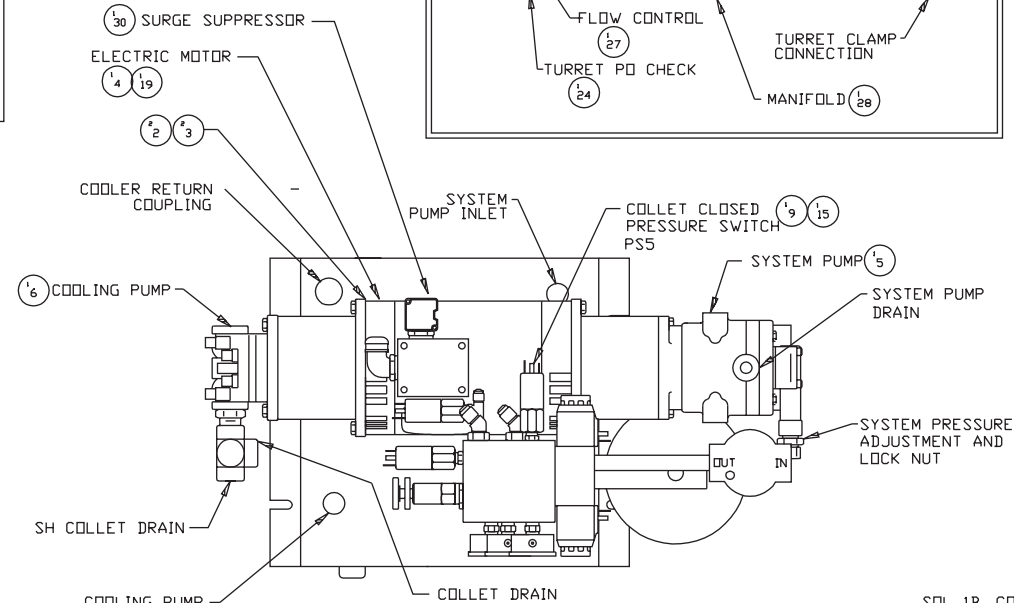
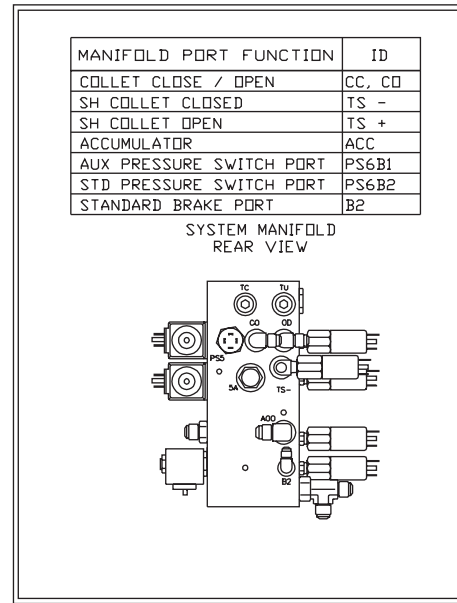
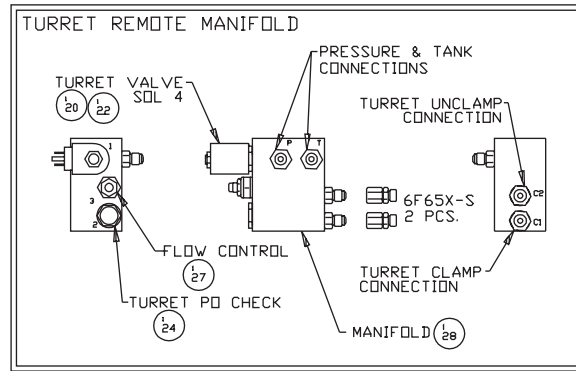
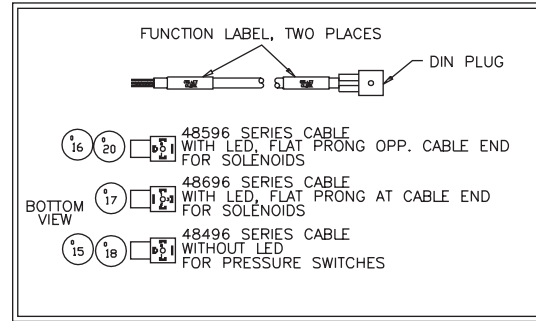
Revised: August 17, 1999



ITEM	HARDINGE PART NO.	QUANTITY	RWE REFERENCE NO.
1	SG 00033253HCE	1.000	VICKERS VVA20-FP-CCW-21
2	ITEM 2	1.000	MAGNALOY M-100-3/4X1/8
3	ITEM 3	1.000	MAGNALOY M-100-28mm X 8mm
4	SG 0011792 P	1.000	MAGNALOY 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 AKVVA20/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 H#9020-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	VL 0003048CCDV	1.000	VICKERS DG4V3S-D2NMUH-5-60
16	ITEM 16	1.000	VICKERS MCD-3595
17	CSA001173602	6.000	CCS 6710P34
18	ITEM 18	1.000	HS 15695A01
19	ITEM 19	3.000	LENZ AFC-1M-20RC
20	ITEM 20	1.000	RWE 07791
21	ITEM 21	1.000	RWE 06794
22	CL 001011569	1.000	RWE 07591
23	ITEM 23	1.000	MUR 23-030
24	CS 000304804	1.000	VICKERS PRV1-10-K-0-6/
25	CL 000304811	1.000	VICKERS PRV1-10-K-0-12/
26	ITEM 26	1.000	VICKERS CV1-10-P-0-5
27	CS 001145207	1.000	VICKERS SPC-10-P-0-25
28	ITEM 28	1.000	DELTRDL FM620SK
29	HS 0001467FN	2.000	RWE 34093A00
30	ITEM 30	1.000	VICKERS 20601
31	CL 000304807	2.000	VICKERS SV1-10-4-0-24DG
32	ITEM 32	1.000	CABLE 48596-1-00-252
33	ITEM 33	2.000	CABLE 48696-D-01-048
34	ITEM 34	2.000	CABLE 48596-D-01-048
35	ITEM 35	6.000	CABLE 48296-C-01-048
36	ITEM 36	1.000	CABLE 48596-G-01-057
37	ITEM 37	1.000	VICKERS FCV7-10-S-0-FF
38	ITEM 38	1.000	MW 93-0513

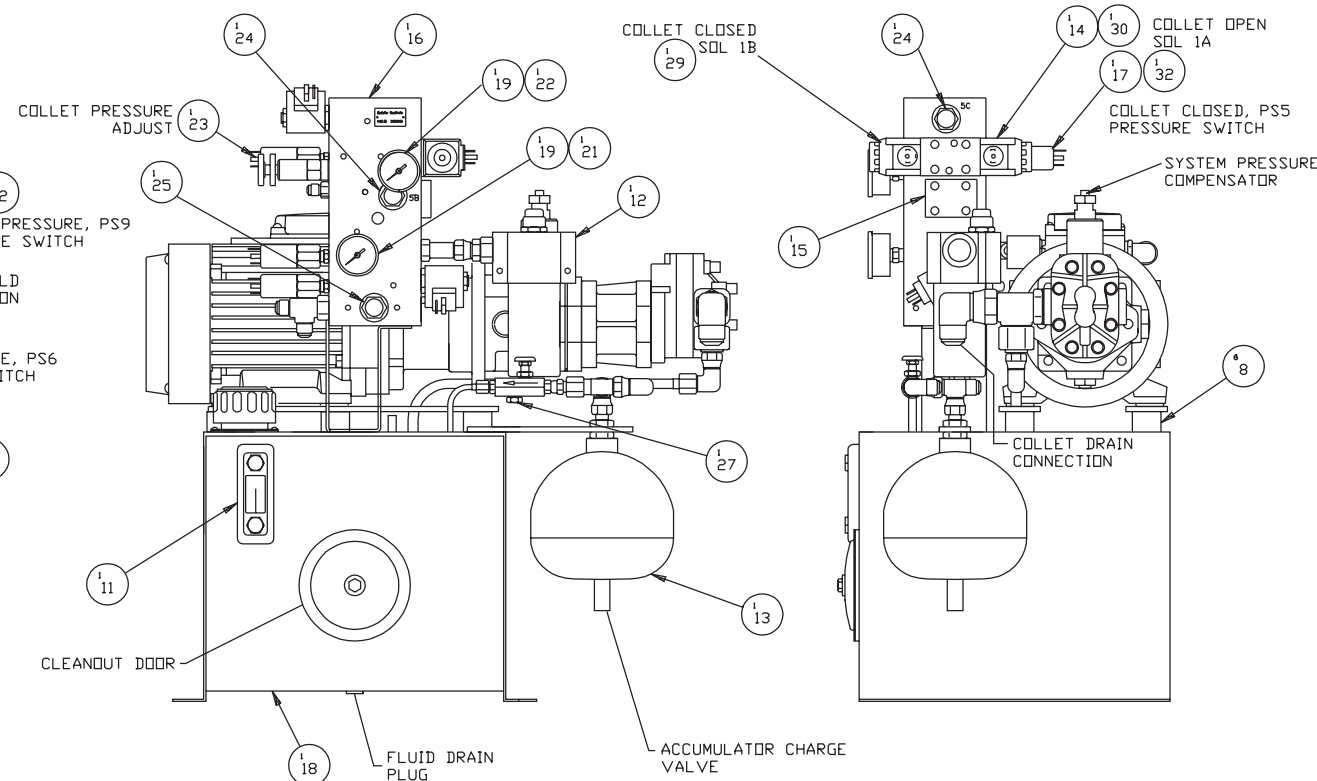
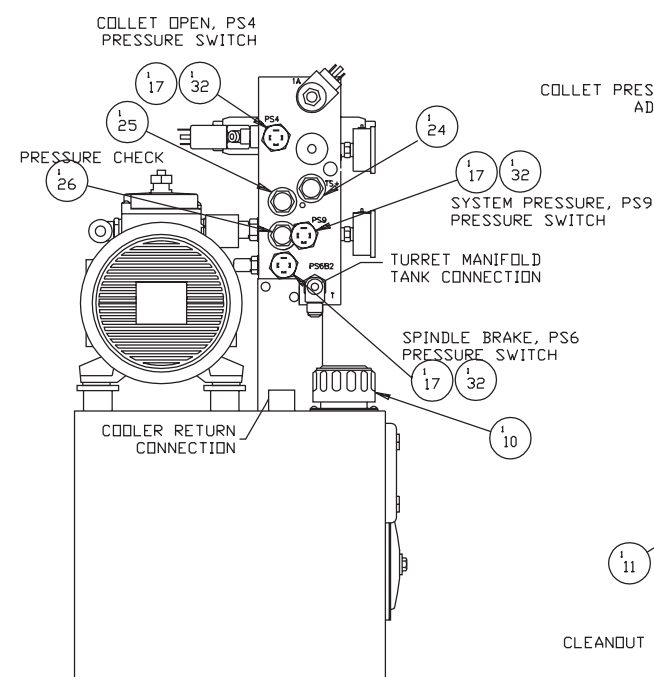
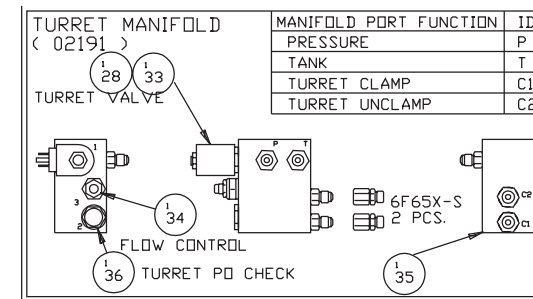
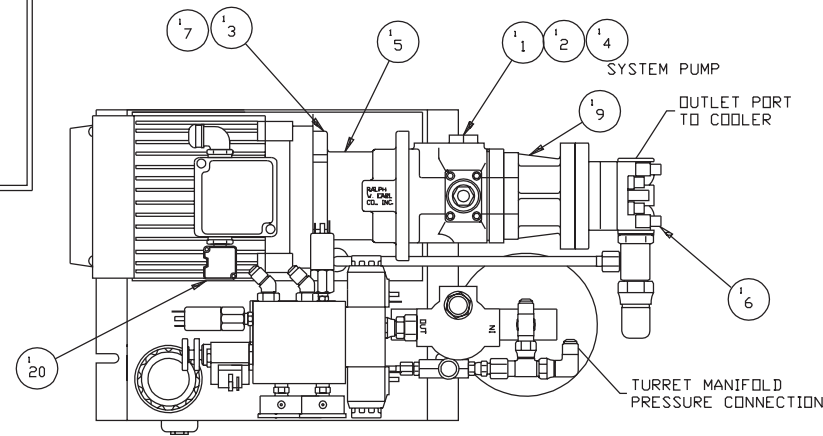
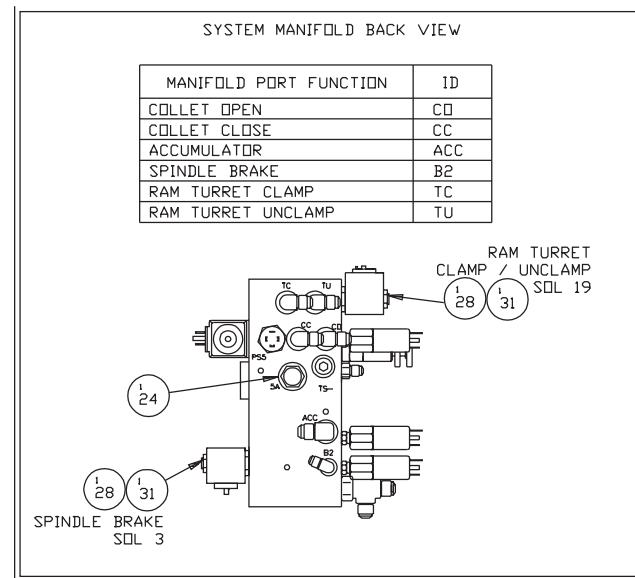
Revised: August 17, 1999

Hydraulic Unit, Machine with Ball Screw Sub-Spindle Non-CE Mark



ITEM	HARDINGE PART NO.	QUANTITY	RVE REFERENCE NO.
1	CL 0003310 R	1.000	HYDRO SYSTEMS 31690 10 GAL
2	CL 000838401	2.000	MAGNALOY M056422A
3	SG 0011792	2.000	MAGNALOY PM-90
4	CL 000933201	1.000	LEESON 113776
5	ITEM 5	1.000	VICKERS PVQ13A2LSE1S10C14
6	VL 0003325REC	1.000	EATON 26002-RAD 2 GPM
7	CL 000304805	1.000	VICKERS DG4V3S-DC-MUH5-60
8	VL 0003048CCDV	1.000	VICKERS DG4V3S-2N-MUH5-60
9	CSA001173602	6.000	CCS 6710P34
10	CL 0000537	1.000	LENZ FCS-537
11	ITEM 11	3.000	LENZ AFC-1M-20RC GAUGE
12	SG 0011537	1.000	LDI G1615-03-A-1 SIGHT GLASS
13	SG 001077902	1.000	PALL H#-9020A-12KNRBT
14	CS 0010116	4.000	E50027HB VIBRATION MOUNTS
15	ITEM 15	1.000	CABLE 48496-D-01-148
16	ITEM 16	3.000	CABLE 48596-B-01-148
17	ITEM 17	2.000	CABLE 48696-B-01-148
18	ITEM 18	5.000	CABLE 48496-E-01-132
19	ITEM 19	1.000	CARDL 95255 CABLE
20	ITEM 20	1.000	CABLE 48596-I-00-252
21	ITEM 21	1.000	MODULAR CONTRL MCD-3595
22	CL 000304807	2.000	MODULAR CONTRL SV1-10-4-0-24DG
23	CS 000304804	1.000	MODULAR CONTRLS PRV1-10-K-0-6/
24	CS 001145207	1.000	MODULAR CONTRL SPC2-10-P-0-25
25	ITEM 25	1.000	MODULAR CONTRLCV1-10-P-0-5
26	ITEM 26	1.000	DILAIR 1H-120-15-100-3
27	ITEM 27	1.000	MODULAR CONTRL FCV7-10-S-0-FF
28	ITEM 28	1.000	MW 93-0513
29	ITEM 29	1.000	MODULAR CONTRLPRV1-4044
30	ITEM 30	1.000	MUR 23-030

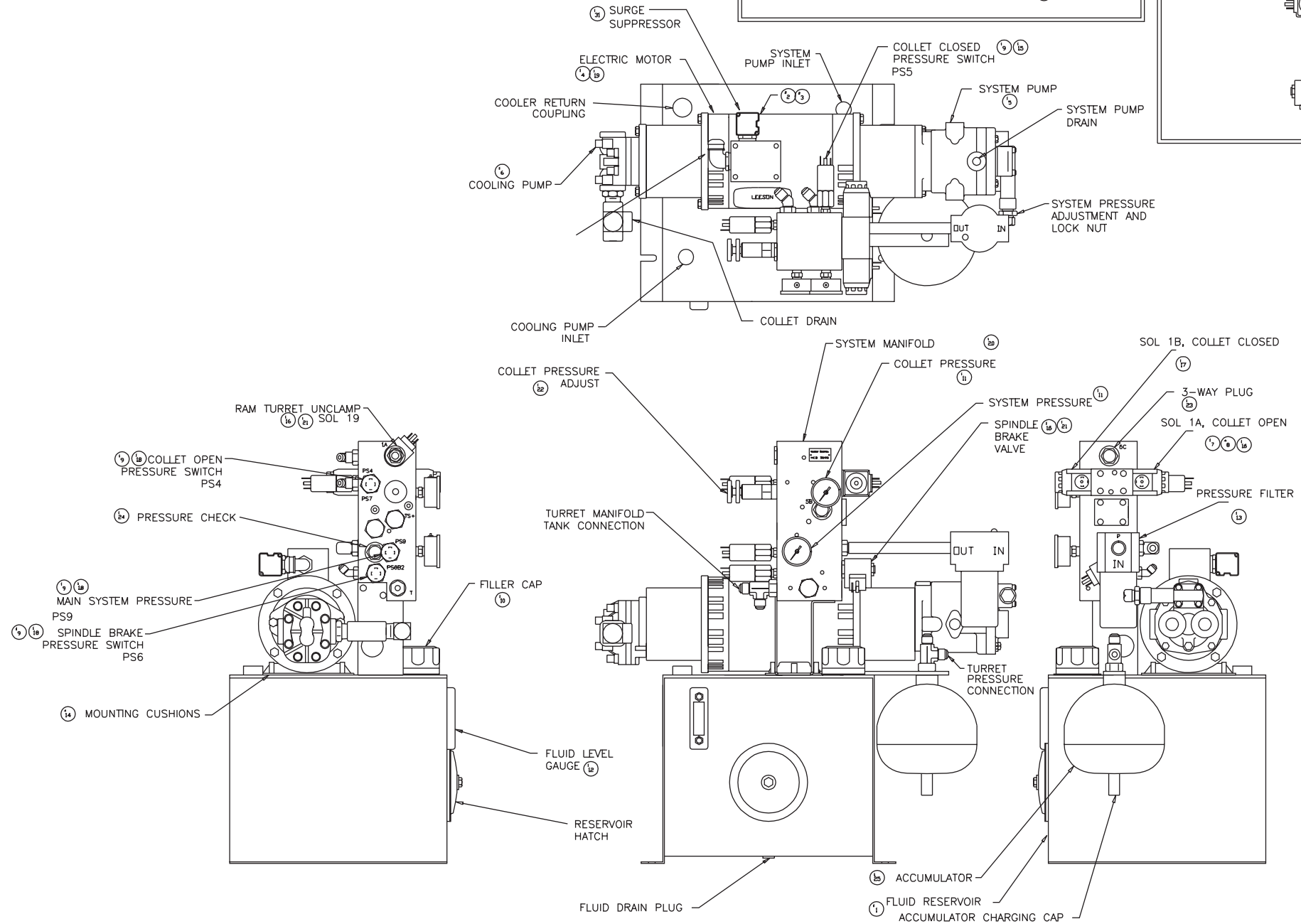
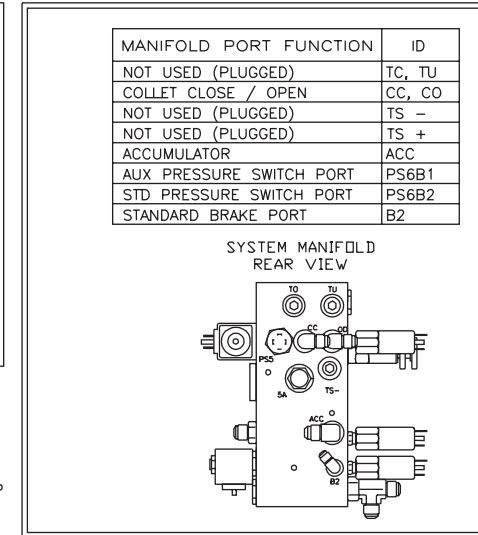
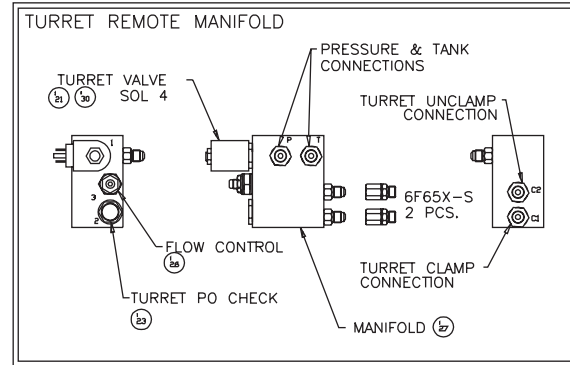
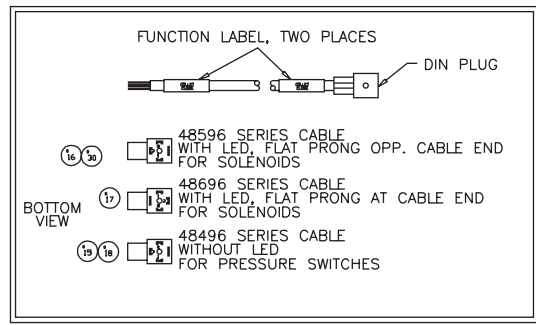
Revised: August 17, 1999



ITEM	HARDINGE PART NO.	QUANTITY	RWE REFERENCE NO.
1	SG 00033253HCE	1.000	VICKERS VVA20-FP-CCWV-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 AKVVA20/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 HH0920-A12-KN-RBPT
13	ITEM 13	1.000	DILAIR 1H-120-15-100-3
14	CL 000304805	1.000	VICKERS DG4V3S-DC-MUH-5-60
15	CL 001022503	1.000	VICKERS AD03-CP-P
16	ITEM 16	1.000	VICKERS MCD-3595
17	CSA001173602	4.000	CCS 6710P34
18	ITEM 18	1.000	HS 15695A01
19	ITEM 19	2.000	LENZ AFC-1M-20RC
20	ITEM 20	1.000	MUR 23-030
21	ITEM 21	1.000	RWE 07791
22	CL 001011569	1.000	RWE 07591A00
23	CS 000304811	1.000	VICKERS PRV1-10-K-0-6/
24	HS 000283302	4.000	VICKERS 20602
25	ITEM 25	2.000	VICKERS 20601
26	ITEM 26	1.000	VICKERS CV1-10-P-0-5
27	ITEM 27	1.000	DELTRDL FM620SK
28	CL 000304807	3.000	VICKERS SV1-10-4-0-24DG
29	ITEM 29	1.000	CABLE 48696-D-01-048
30	ITEM 30	1.000	CABLE 48596-D-01-048
31	ITEM 31	2.000	CABLE 48596-G-01-057
32	ITEM 32	4.000	CABLE 48396-C-01-048
33	ITEM 33	1.000	CABLE 48596-I-00-252
34	ITEM 34	1.000	VICKERS FCV7-10-S-0-FF
35	ITEM 35	1.000	MW 93-0513
36	CS 001145207	1.000	VICKERS SPC-10-P-0-25

Revised: August 17, 1999

Hydraulic Unit, Machine with End-Working Turret Non-CE Mark



ITEM	HARDINGE PART NO.	QUANTITY	RWE REFERENCE NO.
1	CL 0003310 R	1.000	HYDRD SYSTEMS 31690 10 GAL
2	CL 000838401	2.000	MAGNALDIY M056422A
3	SG 0011792	2.000	MAGNALDIY PM-90
4	CL 000933201	1.000	LEESON 113776
5	ITEM 5	1.000	VICKERS PVQ13A2LSE1S10C14
6	VL 0003325REC	1.000	EATON 26002-RAD
7	CL 000304805	1.000	VICKERS DG4V3S-DC-MUH5-60
8	ITEM 8	4.000	MOUNTING BOLTS 10-24X1-1/4
9	CSA001173602	4.000	CCS 6710P34
10	CL 0000537	1.000	LENZ FCS-537
11	ITEM 11	2.000	LENZ AFC-1M-20RC GAUGE
12	SG 0011537	1.000	LDI G1615-03-A-1 SIGHT GLASS
13	SG 001077902	1.000	PALL H+9020A-12KNRBT
14	CS 0010116	4.000	E50027HB VIBRATION MOUNTS
15	ITEM 15	1.000	CABLE 48496-D-01-148
16	ITEM 16	3.000	CABLE 48596-B-01-148
17	ITEM 17	1.000	CABLE 48696-B-01-148
18	ITEM 18	3.000	CABLE 48496-E-01-132
19	ITEM 19	1.000	CARDL 95255 CABLE
20	ITEM 20	1.000	MODULAR CONTRDL MCD-3595
21	CL 000304807	3.000	MODULAR CONTRDL SV1-10-4-0-24DG
22	CS 000304804	1.000	MODULAR CONTRDL PRV1-10-K-0-6/
23	CS 001145207	2.000	MOD CONT SPC2-10-P-0-25
24	ITEM 24	1.000	MODULAR CONTRDL CV1-10-P-0-5
25	ITEM 25	1.000	DILAIR 1H-120-15-100-3
26	ITEM 26	1.000	MODULAR CONTRDL FCV7-10-S-0-FF
27	ITEM 27	1.000	MW 93-0513
30	ITEM 30	1.000	CABLE 48596-1-00-252
31	ITEM 31	1.000	MUR 23-030

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“Performance Has Established Leadership for Hardinge”®

Hardinge Inc.

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