



PARTS LIST



TP1421

CONQUEST® T42 CNC Lathes and CONQUEST T42SP Super-Precision® CNC Lathes

Equipped with the
GE Fanuc 18T Control

Revised: October 17, 2000

Manual No. PL-60A
Part No. PLA-0009500-0060

Litho in U.S.A.
August, 2000

TO ORDER REPLACEMENT PARTS

Please provide the following information when ordering replacement parts:

1. The complete machine serial number. The serial number tag is located on the power case door near the main disconnect switch.
2. List the following information:
 - A. Parts List manual number, PL-60A.
 - B. Page number.
 - C. Item number.
 - D. Part name.
 - E. Part number.
 - F. Quantity of each part required.
3. Specify how and where to ship.

- NOTE -

Information in this manual is subject to change without notice.

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

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

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

www.hardinge.com

Table of Contents

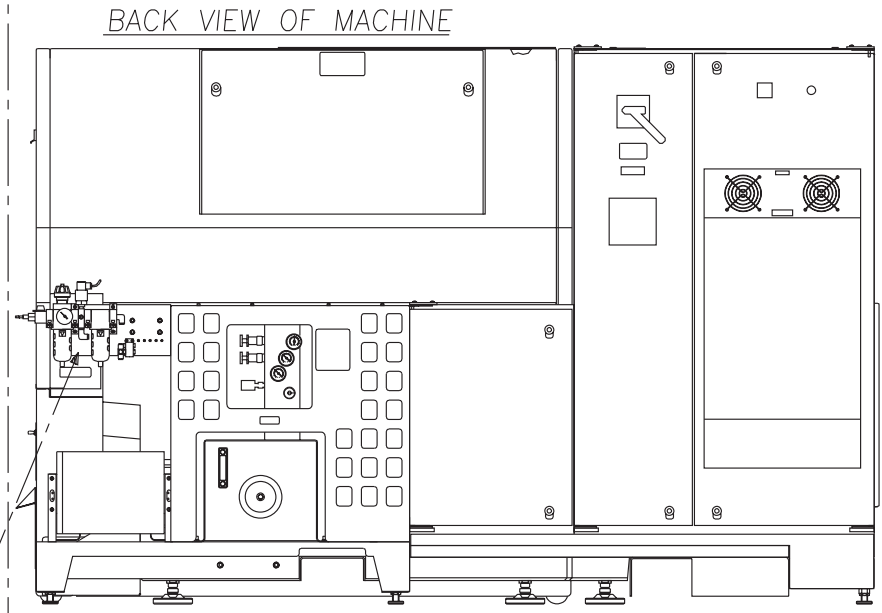
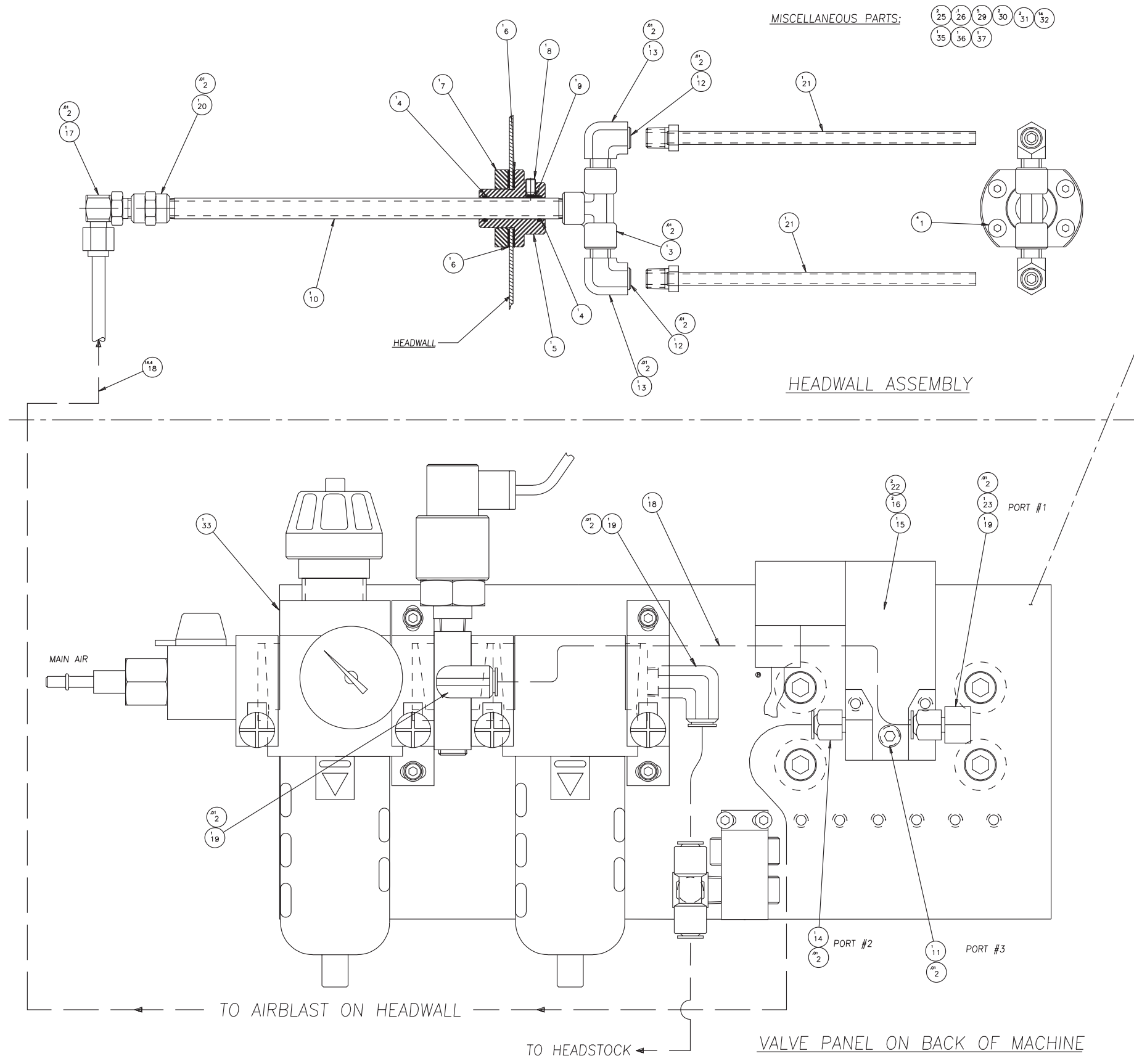
Air Blast Assembly	1
Auto Door	
Light Touch	2 - 3
Push Button	4 - 5
Bed/Base Assembly	6 - 8
Carriage/Cross Slide Assembly	9 - 15
Collet Closer Assembly	
Main Spindle	16 - 17
Main Spindle, Big Bore	18 - 19
Sub-Spindle	20 - 22
Collet Closer Foot Switch.	23
Coolant Assembly, High Pressure	
Machine with End-Working Turret	24 - 25
Machine without End-Working Turret.	26 - 27
Coolant Facilities	
CE Mark	28
Non-CE Mark.	29
Coolant Guard Assembly	
CE Mark	30 - 32
Machine with Gantry	33 - 37
Non-CE Mark.	38 - 40
Coolant Tank Assembly	
Machine with Chip Conveyor	41 - 43
Machine without Chip Conveyor	44 - 46
Filter Box Assembly	47
Headstock Assembly	
Standard	48 - 49
Big Bore	50 - 51
Heat Exchanger	
Standard Machine	52
Super-Precision [®] Machine	53

Hydraulic Unit

Machine with Ball Screw Sub-Spindle, CE Mark	54 - 55
Machine with Big Bore Spindle and Ram Turret, CE Mark	56 - 57
Machine with Big Bore Spindle, CE Mark	58 - 59
Machine with Hydraulic Sub-Spindle, CE Mark	60 - 63
Machine with Ram Turret, CE Mark	64 - 65
Machine with Tailstock, CE Mark	66 - 67
Machine with Tailstock, Non-CE Mark	68 - 71
Machine without Tailstock, CE Mark	72 - 73
Input/Output Case Assembly	74 - 75
Live Tooling Drive Assembly	76 - 77
Lower Axis Drive Assembly	78 - 82
Lower Axis Sub-Base Assembly	83 - 87
Lubrication System	
Machine with Ball Screw Driven Lower Axis	88
Machine with Hydraulic Driven Lower Axis	89
Machine without Lower Axis	90
Miscellaneous Components.	91 - 95
Operator Control Panel	
Machine with Ram Turret, CE Mark	96 - 98
Machine with Ram Turret, Non-CE Mark	99 - 101
Machine without Ram Turret, CE Mark	102 - 104
Machine without Ram Turret, Non-CE Mark	105 - 107
Option Case Assembly, Non-CE Mark.	108 - 109
Option Panel	
Live Tooling	110
Ram Turret.	111
Ram Turret with Live Tooling	112
Sub-Spindle (Ball Screw)	113
Sub-Spindle (Ball Screw) with Live Tooling	114
Sub-Spindle (Hydraulic)	115
Sub-Spindle (Hydraulic) with Live Tooling	116

Part Catcher	117
Part Catcher Sub-Assembly	118 - 119
Part Catcher, Ram Turret	
Standard Machine	120 - 121
Big-Bore Machine.	122 - 123
Pedestal Assembly.	124 - 132
Power Case Assembly	
CE Mark	133 - 135
CE Mark, with Option Case	136 - 139
Non-CE Mark.	140 - 141
Spindle Orient Assembly	142 - 143
Sub-Spindle Assembly	144 - 147
Sub-Spindle Assembly Unique Components	
Ball Screw Actuated, .46 Option	148 - 151
Ball Screw Actuated, 1.6 Option	152 - 155
Hydraulic Actuated	156 - 159
Sub-Spindle Tool Plate Assembly	
English, 10 Station	160
English, 12 Station	161
Metric, 10 Station.	162
Metric, 12 Station.	163
Tailstock Assembly	164 - 166
Tailstock Assembly, Machine without	167
Thru-Spindle Coolant	
Big Bore Machine.	168
Standard Machine	169
Tool Touch Probe Arm Assembly	170
Tool Touch Probe Assembly	171
Turret Assembly	
Main Turret.	172 - 175
Ram Turret.	176 - 179
Turret Top Plate Assembly	
English, 10 Station	180 - 181
English, 12 Station	182 - 183
Metric, 10 Station.	184 - 185
Metric, 12 Station.	186 - 187

- NOTES -

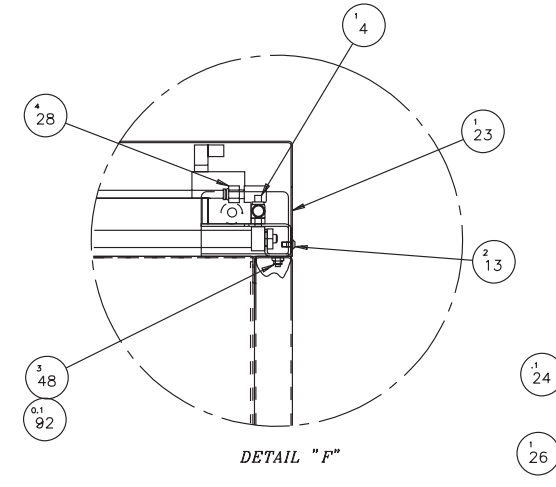
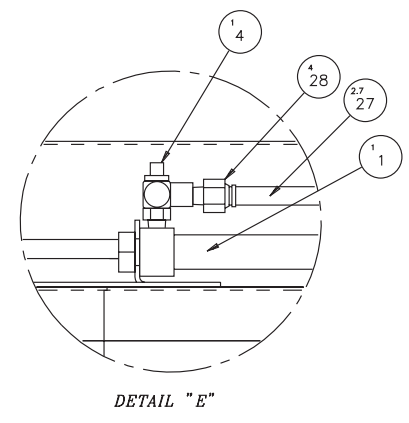
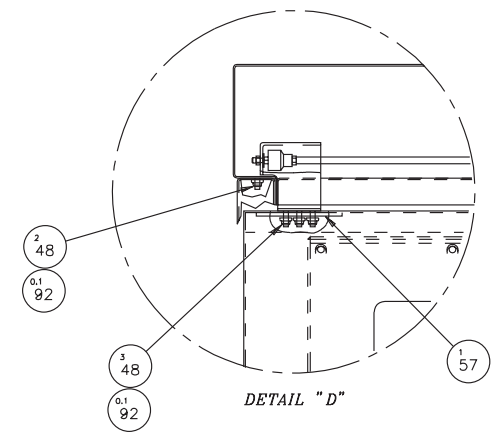
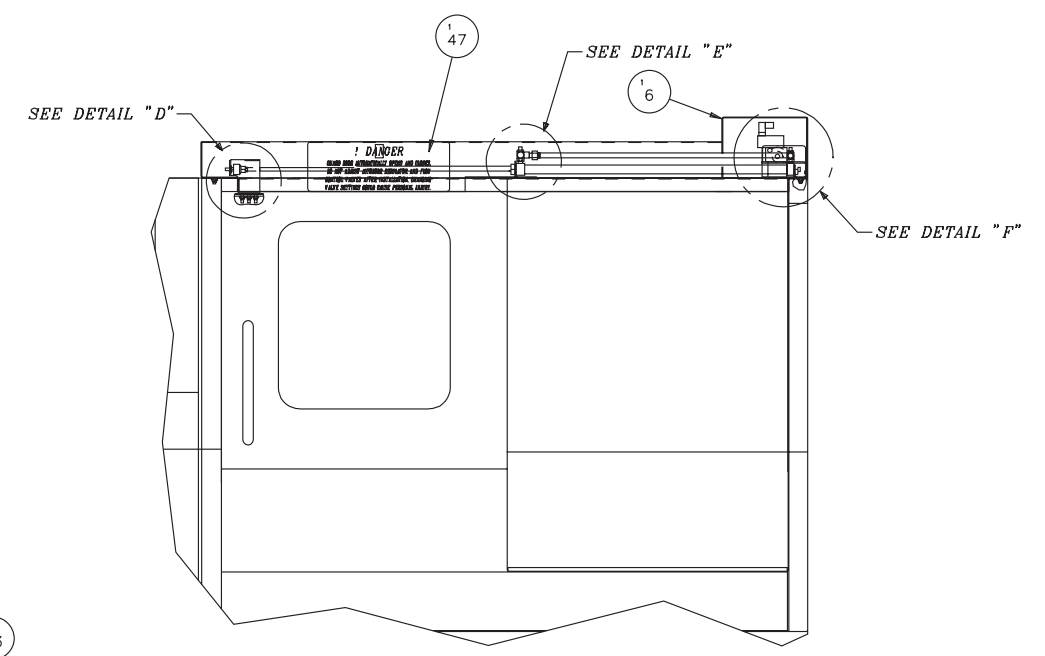
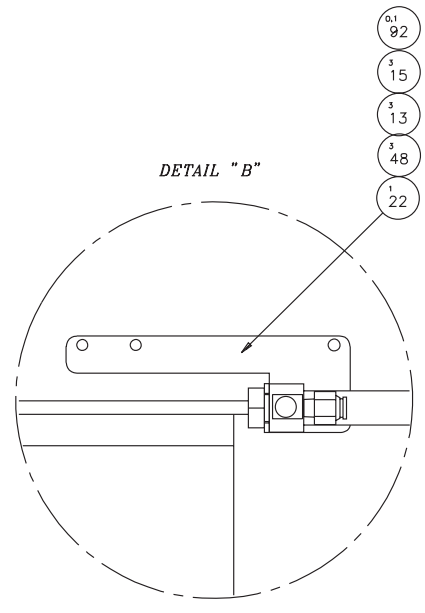
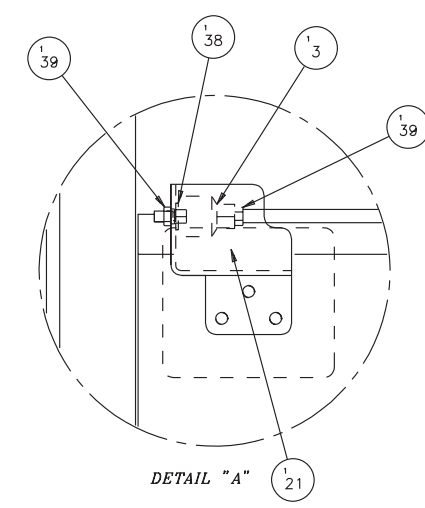
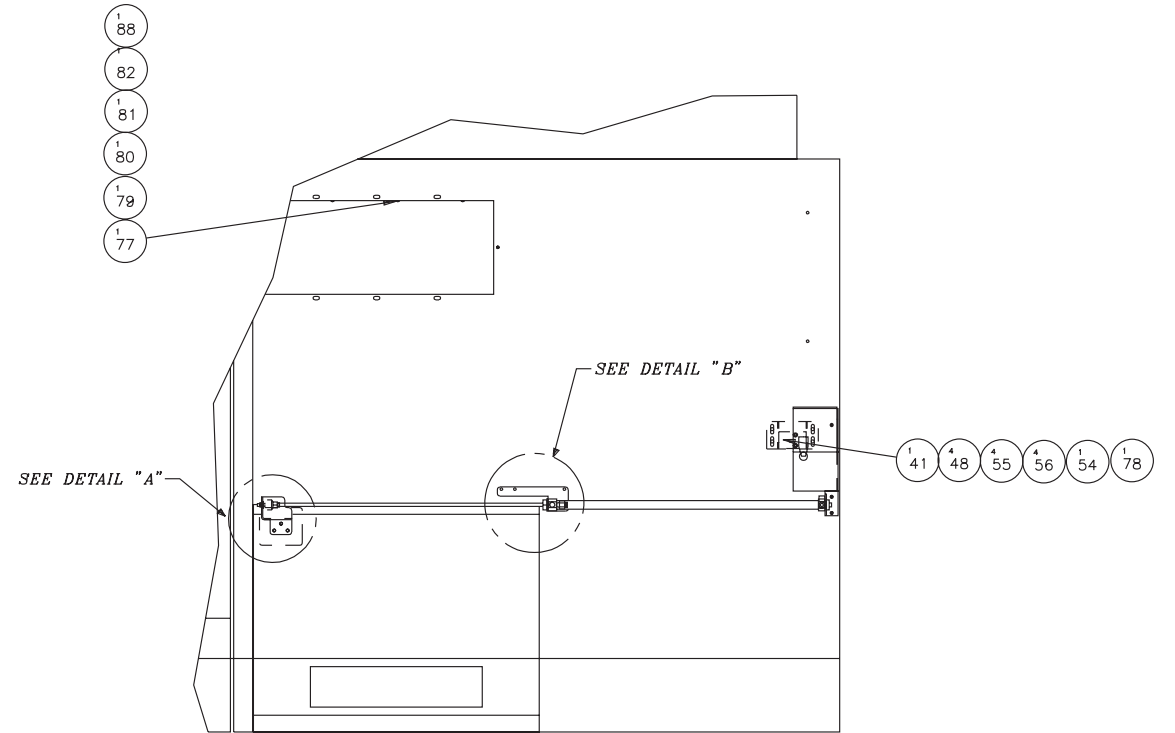
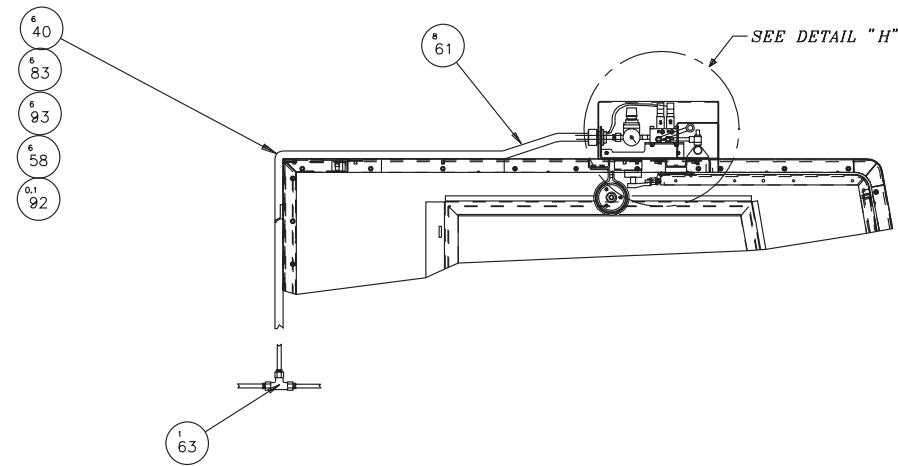
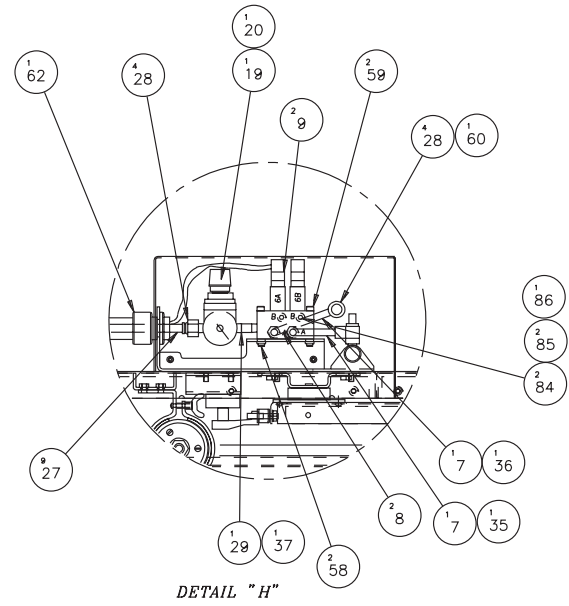


ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	0300309	4.000	SCREW, 10-32 X 9/16
2	LT 0010884 S	0.120	SEALANT, PIPE
3	PO 000770202	1.000	TEE
4	OR 0000608	2.000	"O" RING
5	CS 0011793	1.000	SLEEVE
6	CS 001011631	2.000	GASKET
7	CS 0002921	1.000	PLATE
8	0570303	1.000	SCREW, 10-32 X 3/16
9	ST 0009727	1.000	PLUG, NYLON
10	CS 001109208	1.000	NIPPLE, BRASS
11	5 0001914	1.000	PLUG, PIPE
12	5 0001467	2.000	PLUG, PIPE
13	NC 0010786	2.000	ELBOW
14	HG 000770203	1.000	CONNECTOR
15	CL 000304812	1.000	VALVE, 3-WAY
16	MS 1010352 3	2.000	SCREW
17	CL 000770203	1.000	ELBOW
18	HG 0007007	15.400	TUBING, 5/16 OD
19	CL 000770202	3.000	ELBOE, 90°
20	CT 001109601	1.000	COUPLING
21	HG 0010109 A	2.000	ADAPTER, COOLANT ASSEMBLY
22	MW 0193510	2.000	LOCKWASHER
23	AO 0010786	1.000	ELBOW, STREET
25	F3 0009977	2.000	LABEL
26	NC 001047306	0.100	HEAT SHRINK
29	AD 0008104	5.000	TY-RAP
30	1B20002874BU	2.000	WIRE
31	1B20002874GR	2.000	WIRE
32	F3 000997702	14.000	LABEL
33	CLC0010779 A	1.000	FILTER REGULATOR ASSEMBLY
35	CL 001078607	1.000	TEE, STREET
36	CN 00107793E	1.000	ELEMENT, FILTER
37	RF 0011971	1.000	BAG - MAIL

NAME
SG42 AIR BLAST
(SG 0000238)

PART NUMBER
LO 0002640
SHEET 1 of 1

Auto Door, Light Touch

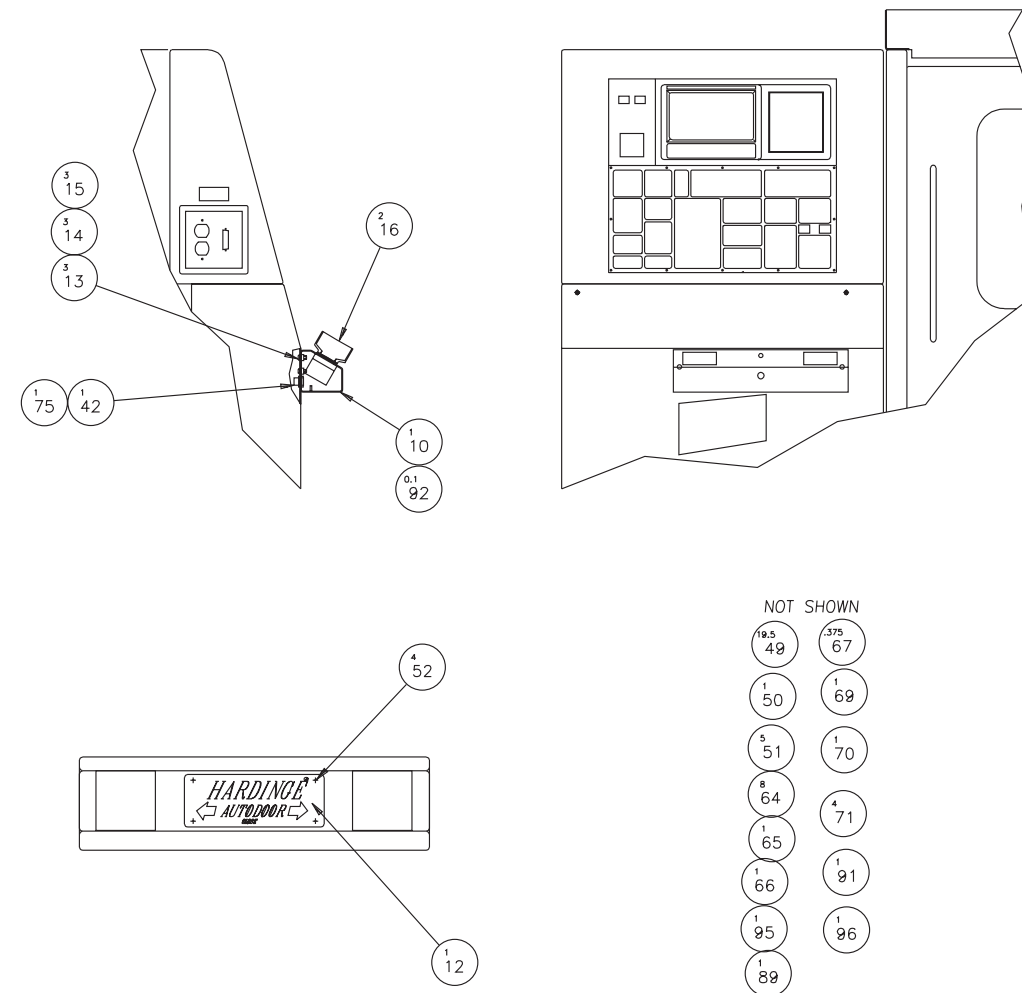


NAME
AUTODOOR T-42

PART NUMBER
HS 0000238ADLM
SHEET 1 OF 2

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	CLA000291701	1.000	CYLINDER AUTODOOR
3	CL 0003972	1.000	FLOATING JOINT
4	CS 001145201	2.000	VALVE FLOW CONTROL
6	HS 001011582	1.000	COVER AUTODOOR
7	NT 0003504 A	2.000	NIPPLE, PIPE
8	CL 001023405	2.000	MANIFOLD, (MAC M45008-01)
9	CL 000304815	2.000	VALVE, MAC (45A-LAC-DDAJ-1-KJ)
10	HS 000399010	1.000	BOX, AUTODOOR JUNCTION
12	SG 001036611	1.000	TAG, AUTODOOR
13	MS 0303616	8.000	M6 SCREW BUTT HD x 12mm
14	MW 0103610	3.000	M6 WASHER FLAT
15	MW 0193610	6.000	M6 WASHER LOCK
16	HG 000365004	2.000	SWITCH
19	AH 0010779	1.000	REGULATOR
20	BF 0011537	1.000	GAGE
21	HS 000399057	1.000	BRACKET FRONT AUTODOOR
22	HS 000399058	1.000	BRACKET MIDDLE AUTODOOR
23	CL 000399026	1.000	BRACKET BACK AUTODOOR
24	LT 0010884 S	0.100	SEALANT
26	CLD0008220	1.000	ELECTRICAL DIAGRAM
27	HG 0007007	11.700	TUBING 5/16
28	HG 0007702	16.000	CONN. STR. MALE 1/8 NPT
29	NC 0003519	1.000	NIPPLE
35	CT 000770901	1.000	ELBOW, STREET
36	NC 0010786	1.000	ELBOW, STREET
37	AUA0010785	1.000	BUSHING
38	5 0001893	1.000	WASHER FLAT 5/16
39	TL 0000414 B	2.000	NUT HEX 5/16-24
40	CS 000810402	6.000	TY-RAP, HOSE CLAMP
41	CSA001022401	1.000	SWITCH LIMIT
42	CL 0012042 R	1.000	RECEPTACLE, JOY
47	HGA001036643	1.000	TAG CAU AUTODOOR DANGER
48	MN 0283610	15.000	M6 NUT SER. HEX FLANGE
49	2210002874BU	19.500	WIRE 22 AWG BU
50	8730009188RA	1.000	STAKON #10 (22-18 AWG)
51	CK 000918820	5.000	FERRULES, 20 AWG
52	R 0008044	4.000	PIN, ESCUTCHEON
54	HS 000399050	1.000	BRACKET SWITCH
55	MW 0193510	4.000	M5 WASHER LOCK
56	MS 0103517	4.000	M5 SCREW SK HD CP x 16mm
57	CL 000399038	1.000	PLATE BRACKET FRONT AUTODOOR
58	MN 0283510	8.000	SERRATED HEX FLANGE NUT
59	MS 0103521	2.000	M5 SCREW SKHD CP x 35mm
60	PL 0010110	1.000	ELBOW, 90 DEGREE FEMALE
61	HG 001022902	8.000	CONDUIT 3/4
62	CL 000770201	1.000	FITTING, STRAIGHT
63	CL 000770205	1.000	TEE UNION
64	F3 0009977	8.000	WIRE MARKERS
65	LO 0002637	1.000	LAYOUT CABLE TAGS
66	LO 0002831	1.000	CABLE CHART
67	NC 001047306	0.375	HEATSRINK
69	CL 001179117	1.000	RELAY
70	HG 001179104	1.000	SOCKET
71	RAA0091882 1	4.000	BUTT SPLICE
75	CL 0003011 J	1.000	JOY CABLE
77	18 001179101	1.000	OUTPUT MOD.
78	HG 000365003	1.000	SWITCH LEVER ARM
79	52 001022661	1.000	SEAL RING
80	CN 0011508	1.000	LOCK NUT

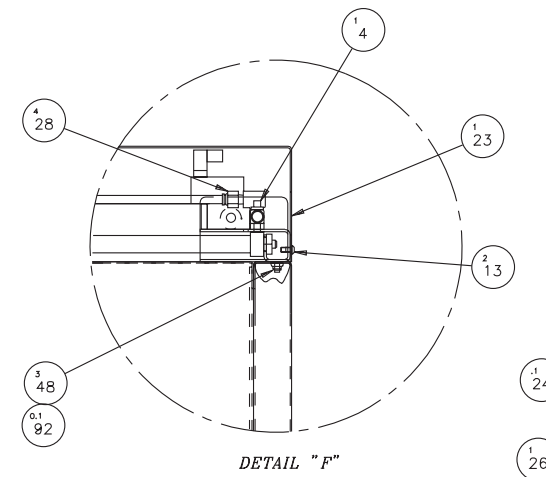
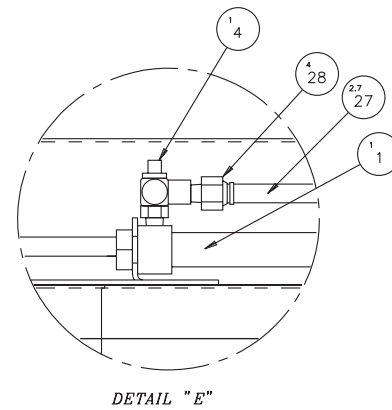
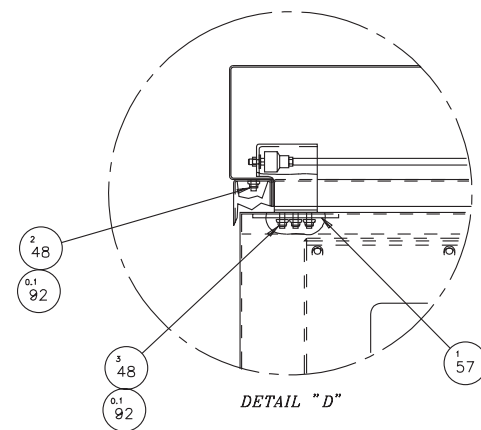
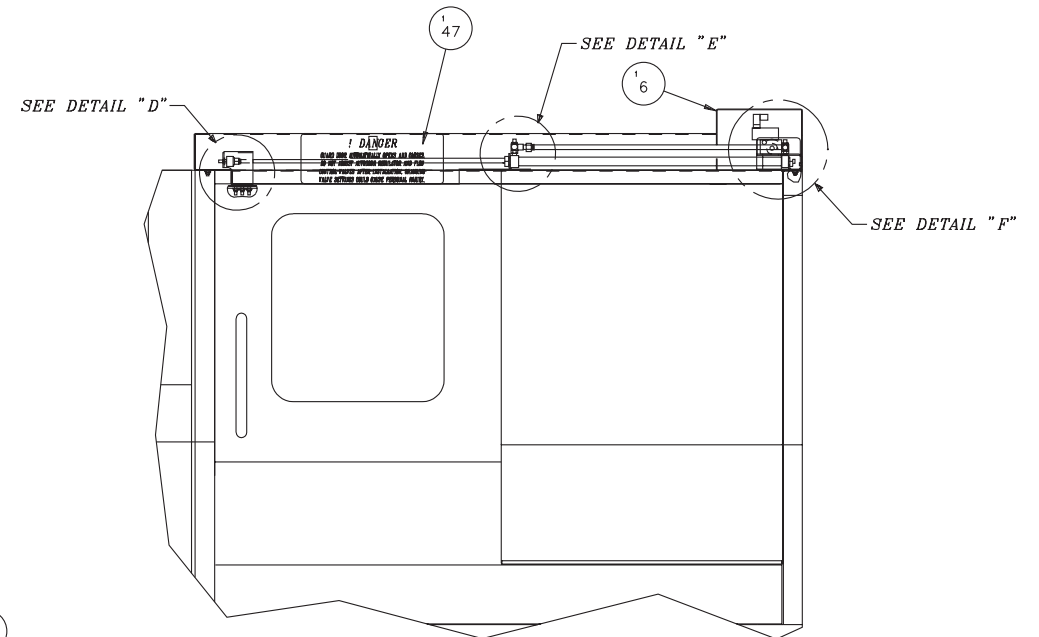
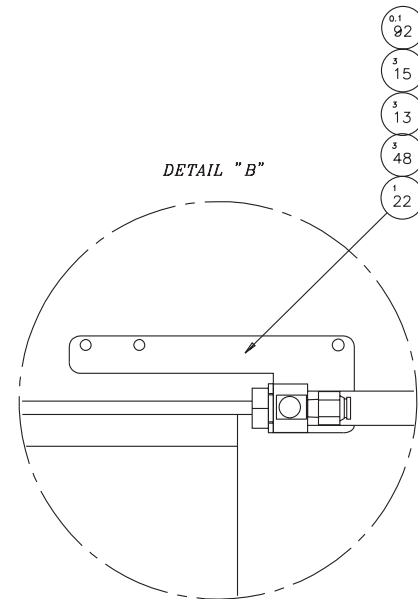
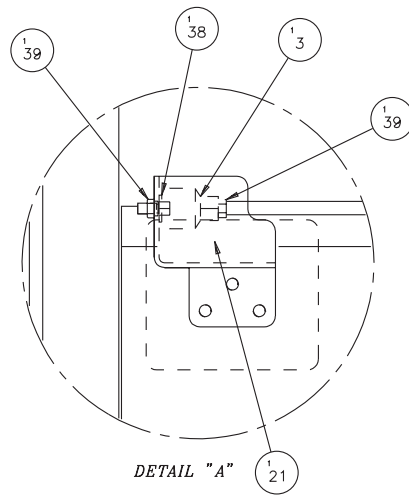
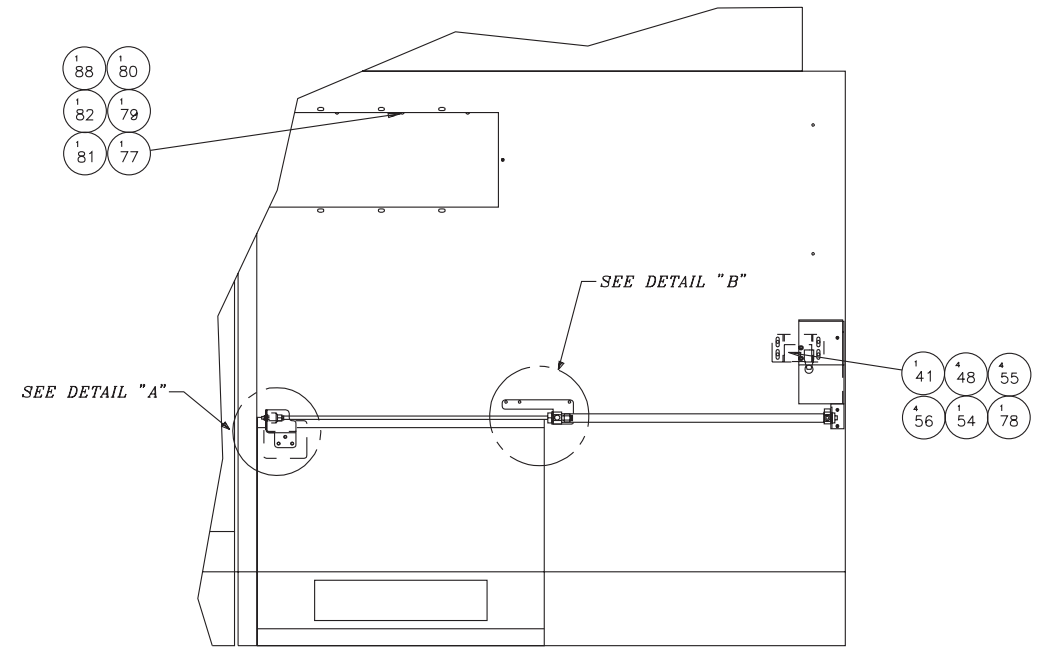
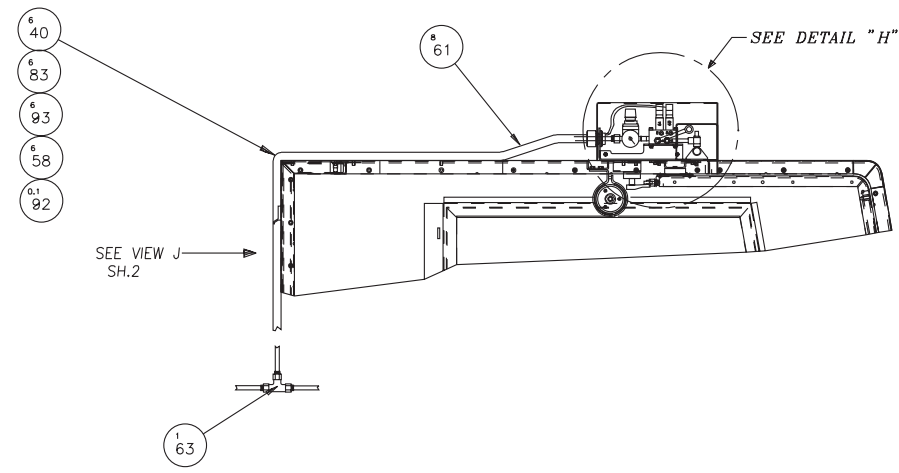
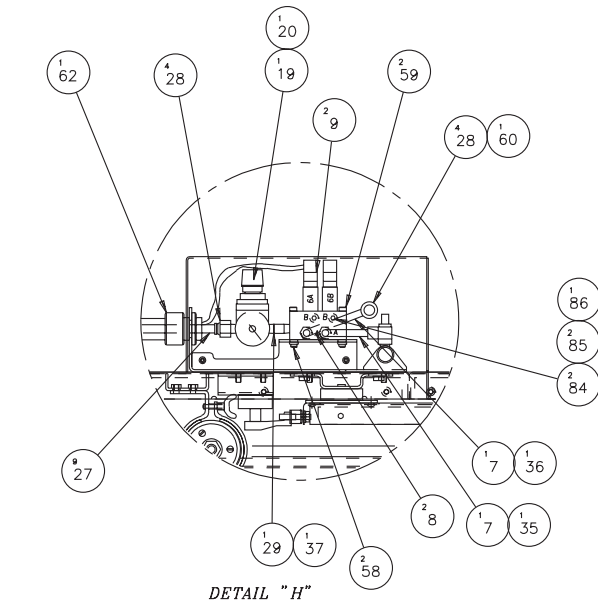
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
81	31 000920738	1.000	CABLE CONNECTOR
82	SB 0010785	1.000	BODY
83	CH 000962302	6.000	CLAMPS
84	5 0001467	2.000	PLUG
85	5 0001914	2.000	PLUG
86	RF 001133501	1.000	MUFFLER
88	NC 0011289	1.000	RECTIFIE DIODE
89	HS 001036623	1.000	TAG
91	HS 000399049	1.000	TEMPLATE JUNCTION BOX AUTODOOR
92	GE 0010884	0.600	SILICON
93	MS 0303517	6.000	M5 SCREW BUTT HD x 16mm
95	LO 0002834	1.000	LAYOUT AUTODOOR
96	SG 0001990KMA	1.000	BRACKET, AUTODOOR KEY MOUNT



NAME
AUTODOOR T-42

PART NUMBER
HS 0000238ADLM
SHEET 2 OF 2

Auto Door, Push Button

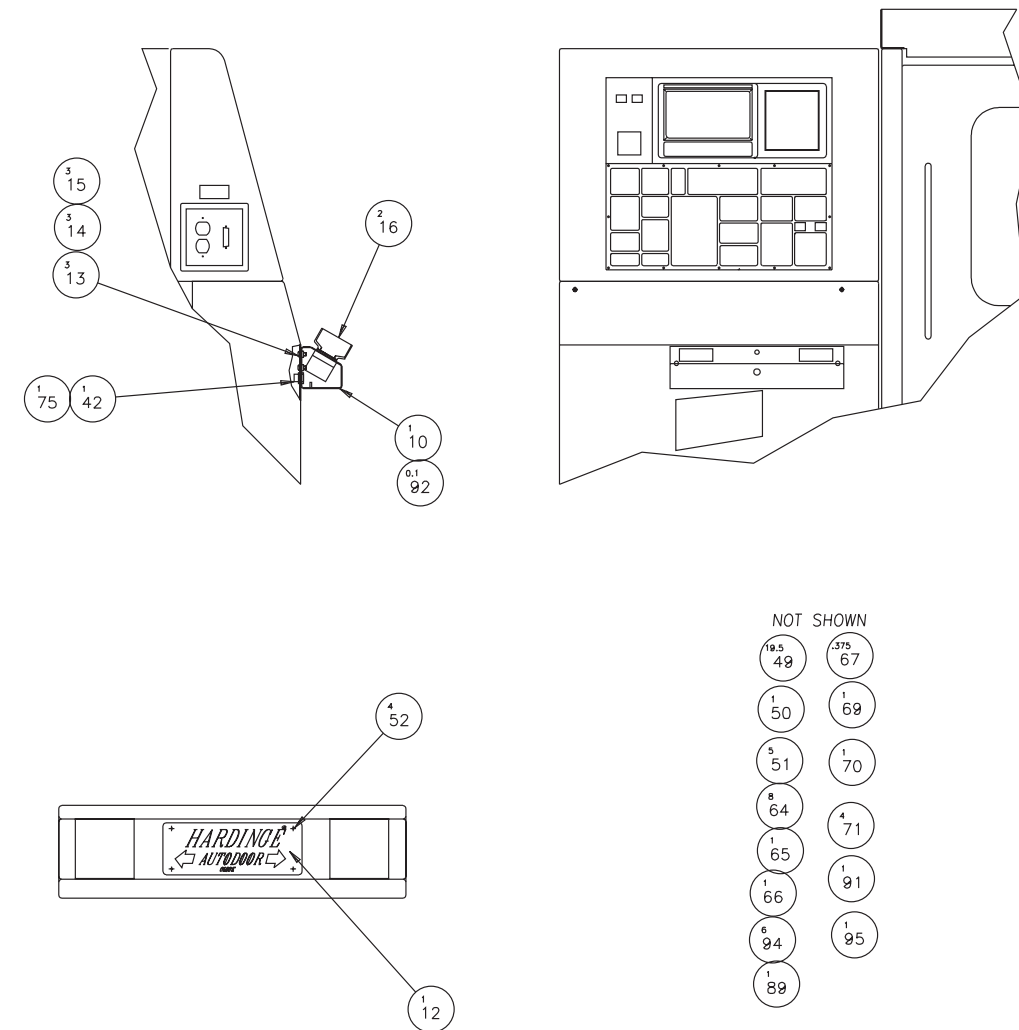


NAME
AUTODOOR T-42

PART NUMBER
HS 0000238ADCD
SHEET 1 OF 2

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	HS 000291701	1.000	CYLINDER AUTODOOR
3	CL 0003972	1.000	FLOATING JOINT
4	CS 001145201	2.000	VALVE FLOW CONTROL
6	HS 001011582	1.000	COVER AUTODOOR
7	NT 0003504 A	2.000	NIPPLE, PIPE
8	CL 001023405	2.000	MANIFOLD, (MAC M45008-01)
9	CL 000304815	2.000	VALVE, MAC (45A-LAC-DDAJ-1-KJ)
10	CL 000399033	1.000	BOX, AUTODOOR JUNCTION
12	SG 001036611	1.000	TAG, AUTODOOR
13	MS 0303616	8.000	M6 SCREW BUTT HD x 12mm
14	MW 0103610	3.000	M6 WASHER FLAT
15	MW 0193610	6.000	M6 WASHER LOCK
16	HG 000365004	2.000	SWITCH
19	AH 0010779	1.000	REGULATOR
20	BF 0011537	1.000	GAGE
21	HS 000399057	1.000	BRACKET FRONT AUTODOOR
22	HS 000399058	1.000	BRACKET MIDDLE AUTODOOR
23	CL 000399026	1.000	BRACKET BACK AUTODOOR
24	LT 0010884 S	0.100	SEALANT
26	CLD0008220	1.000	ELECTRICAL DIAGRAM
27	HG 0007007	11.700	TUBING 5/16
28	HG 0007702	16.000	CONN. STR. MALE 1/8 NPT
29	NC 0003519	1.000	NIPPLE
35	CT 000770901	1.000	ELBOW, STREET
36	NC 0010786	1.000	ELBOW, STREET
37	AUA0010785	1.000	BUSHING
38	5 0001893	1.000	WASHER FLAT 5/16
39	TL 0000414 B	2.000	NUT HEX 5/16-24
40	CS 000810402	6.000	TY-RAP, HOSE CLAMP
41	CSA001022401	1.000	SWITCH LIMIT
42	CL 0012042 R	1.000	RECEPTACLE, JOY
47	HGA001036643	1.000	TAG CAU AUTODOOR DANGER
48	MN 0283610	15.000	M6 NUT SER. HEX FLANGE
49	2210002874BU	19.500	WIRE 22 AWG BU
50	8730009188RA	1.000	STAKON #10 (22-18 AWG)
51	CK 000918820	5.000	FERRULES, 20 AWG
52	R 0008044	4.000	PIN, ESCUTCHEON
54	HS 000399050	1.000	BRACKET SWITCH
55	MW 0193510	4.000	M5 WASHER LOCK
56	MS 0103517	4.000	M5 SCREW SK HD CP x 16mm
57	CL 000399038	1.000	PLATE BRACKET FRONT AUTODOOR
58	MN 0283510	8.000	SERRATED HEX FLANGE NUT
59	MS 0103521	2.000	M5 SCREW SKHD CP x 35mm
60	PL 0010110	1.000	ELBOW, 90 DEGREE FEMALE
61	HG 001022902	8.000	CONDUIT 3/4
62	CL 000770201	1.000	FITTING, STRAIGHT
63	CL 000770205	1.000	TEE UNION
64	F3 0009977	8.000	WIRE MARKERS
65	LO 0002637	1.000	LAYOUT CABLE TAGS
66	LO 0002831	1.000	CABLE CHART
67	NC 001047306	0.375	HEATSRINK
69	CL 001179117	1.000	RELAY
70	HG 001179104	1.000	SOCKET
71	RAA0091882 1	4.000	BUTT SPLICE
75	CL 0003011 J	1.000	JOY CABLE
77	18 001179101	1.000	OUTPUT MOD.
78	HG 000365003	1.000	SWITCH LEVER ARM
79	52 001022661	1.000	SEAL RING
80	CN 0011508	1.000	LOCK NUT

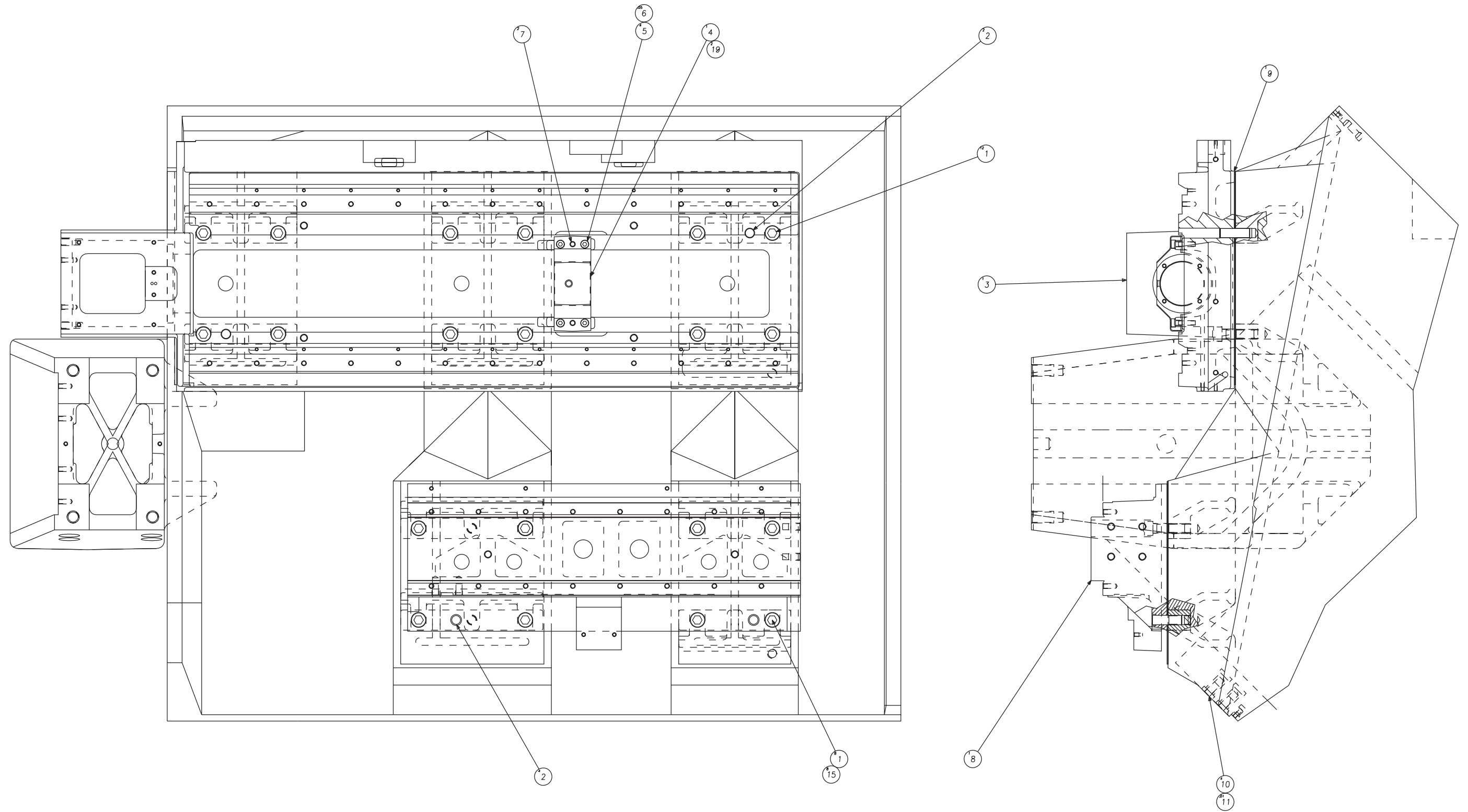
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
81	31 000920738	1.000	CABLE CONNECTOR
82	SB 0010785	1.000	BODY
83	CH 000962302	6.000	CLAMPS
84	5 0001467	2.000	PLUG
85	5 0001914	2.000	PLUG
86	RF 001133501	1.000	MUFFLER
88	NC 0011289	1.000	RECTIFIE DIODE
89	HS 001036623	1.000	TAG
91	HS 000399049	1.000	TEMPLATE JUNCTION BOX AUTODOOR
92	GE 0010884	0.600	SILICON
93	MS 0303517	6.000	M5 SCREW BUTT HD x 16mm
94	CL 0003780GH	6.000	GUARD HOUSING AUTO DOOR
95	SG 0001990KAD	1.000	BRACKET, AUTODOOR KEY MOUNT



NAME
AUTODOOR T-42

PART NUMBER
HS 0000238ADCD
SHEET 2 OF 2

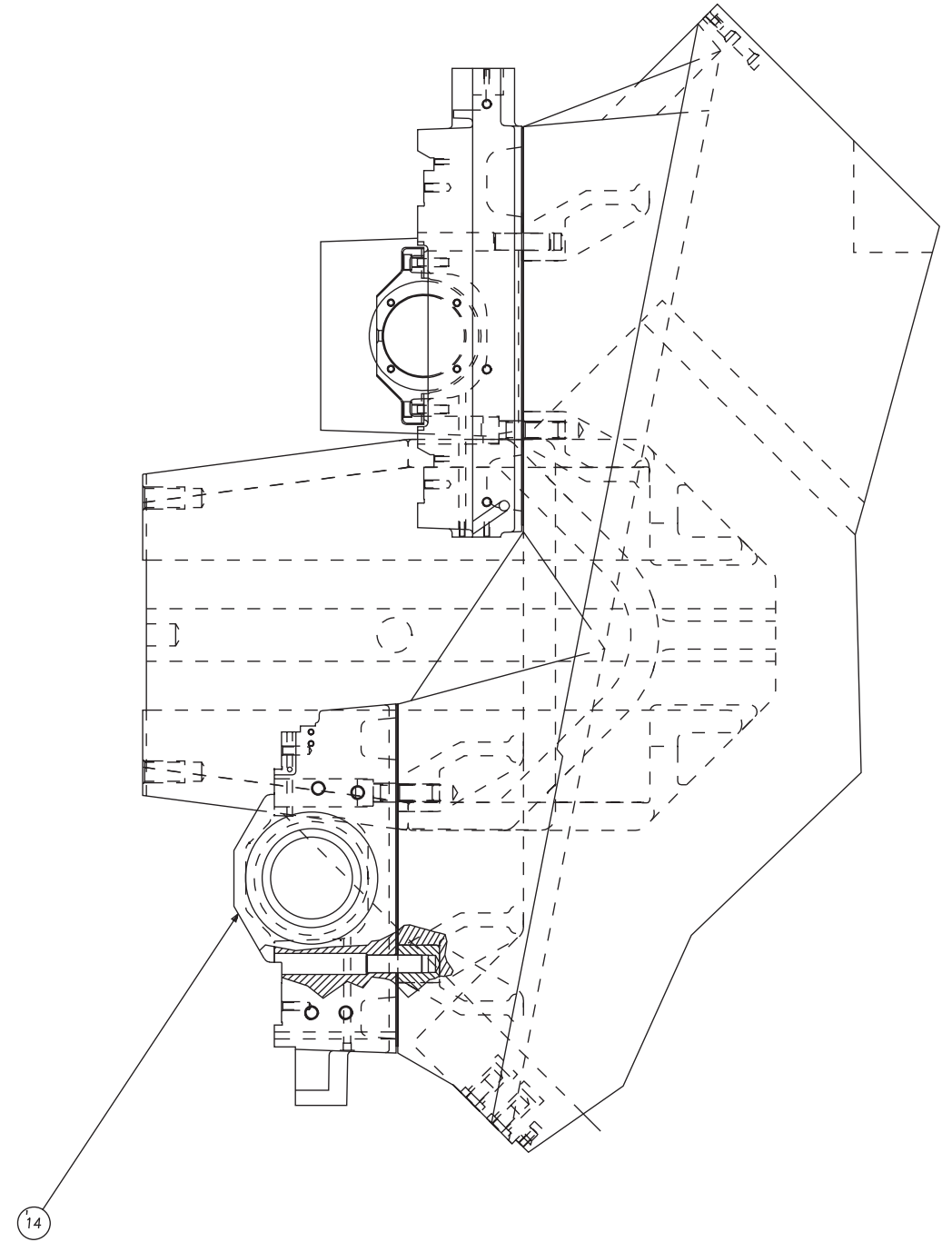
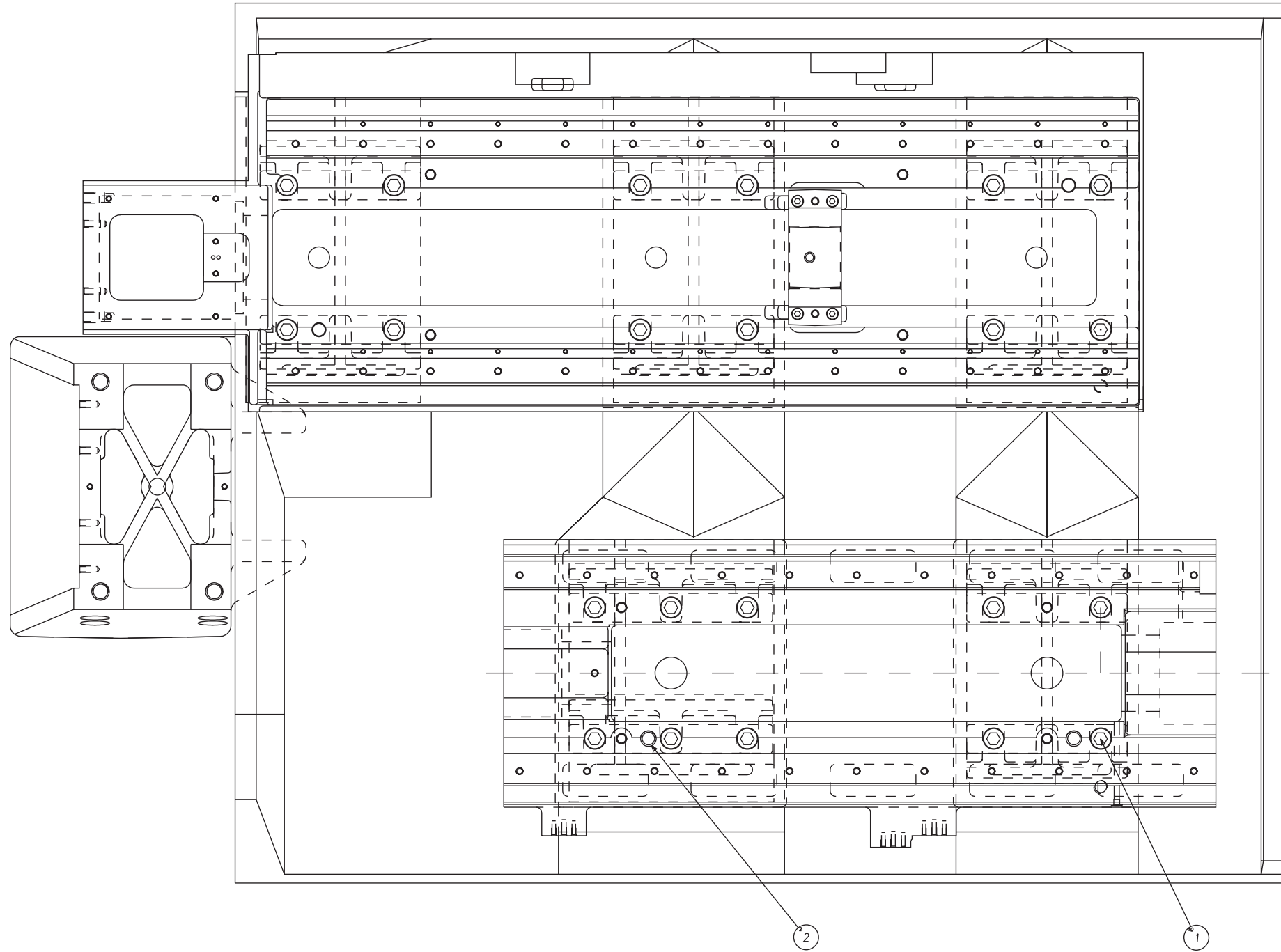
Bed/Base Assembly



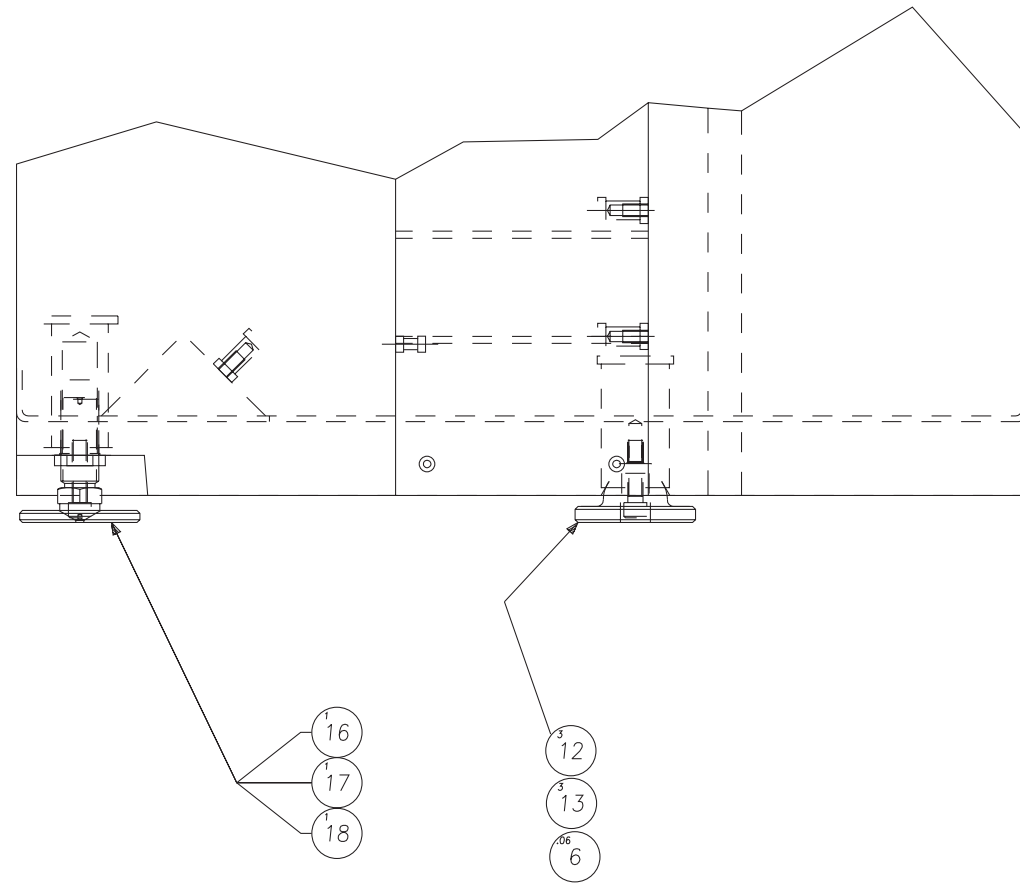
NAME
BASE ASSEMBLY

PART NUMBER
SG-0000001

SHEET
1 of 3



RIGHT END VIEW



19	NC-0006709	2	PIN, DOWEL PULL-OUT
18	CS-0009455-01	1	FOOT, BASE
17	CS-0008325	1	NUT, LOCK ADJUSTABLE SCRE
16	CS-0009454	1	FOOT, ADJUSTABLE
15	SG-0002840	8	WASHER
14	SG-0000262-LA	1	BED, LOWER AXIS
13	MS-0104224	3	M12 SCREW
12	SG-0009455-01	3	FOOT
11	LT-0010884-S	0	SEALANT
10	MS-0554217	4	M16, SET SCREW
9	GE-0010884	1	SEALANT
8	SG-0000262-P	1	BED, TAILSTOCK
7	NC-0006709	2	PIN, PULL-OUT
6	NC-0010884-01	0	ADHESIVE
5	MS-0103819	4	M8 SCREW, SCHD
4	SG-0011932	1	SUPPORT, Z BALL SCREW
3	SG-0000262-01	1	BED
2	CL-0004629	8	PIN, PULL-OUT
1	MS-0104625	30	M16 SCREW, SCHD
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME

BASE ASSEMBLY

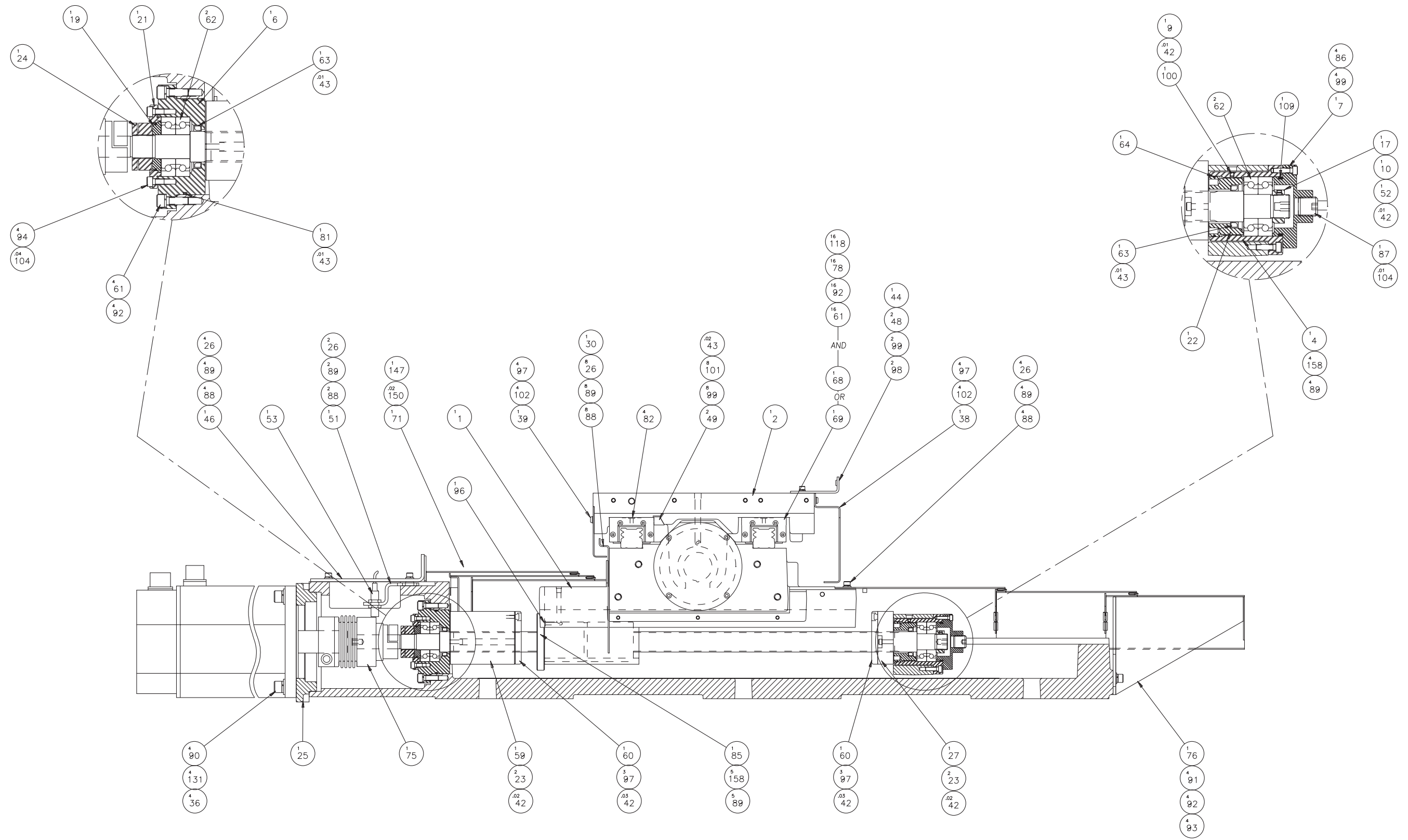
PART NUMBER

SG-0000001

SHEET

3 OF 3

Carriage/Cross Slide Assembly

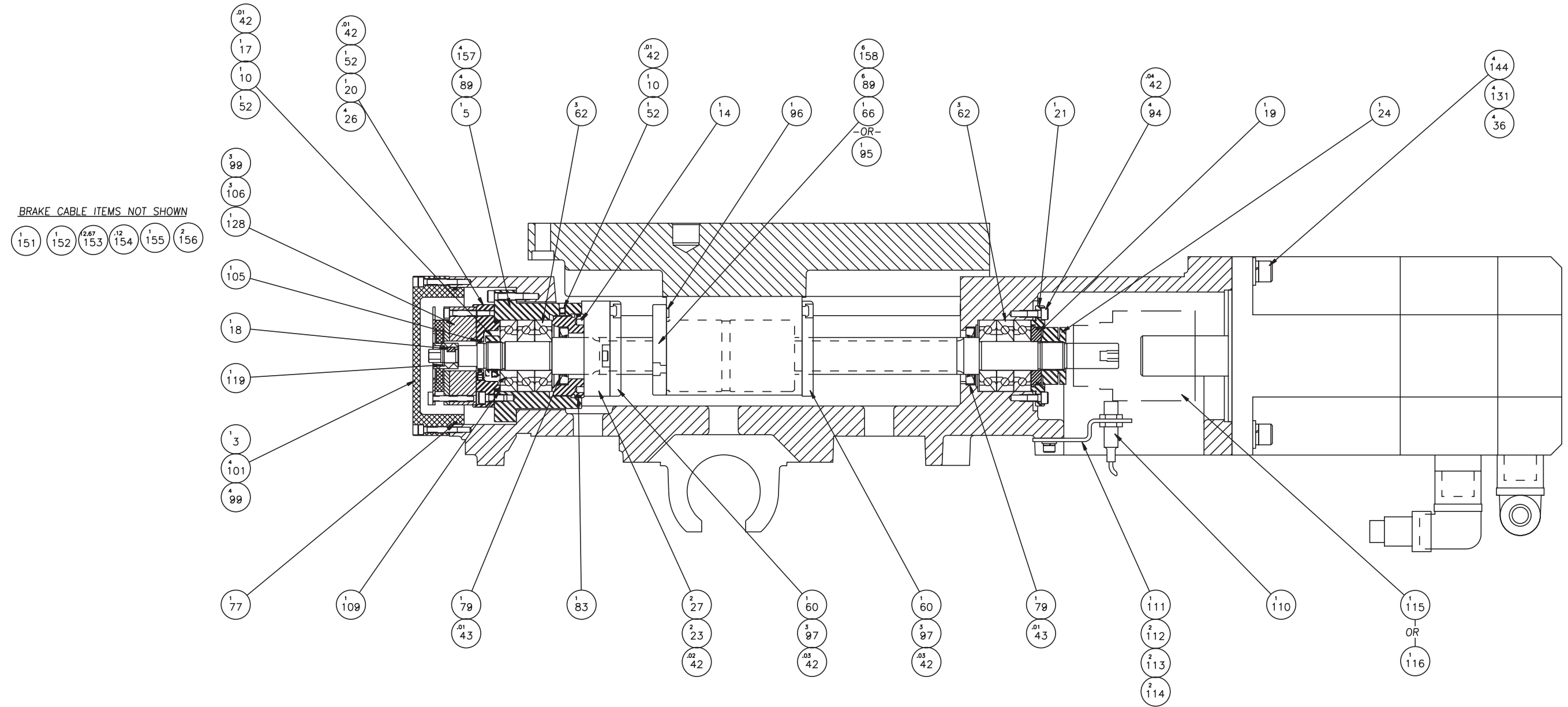


NAME
 CARRIAGE-CROSS SLIDE
 ASSY-(Z-AXIS DRIVE)

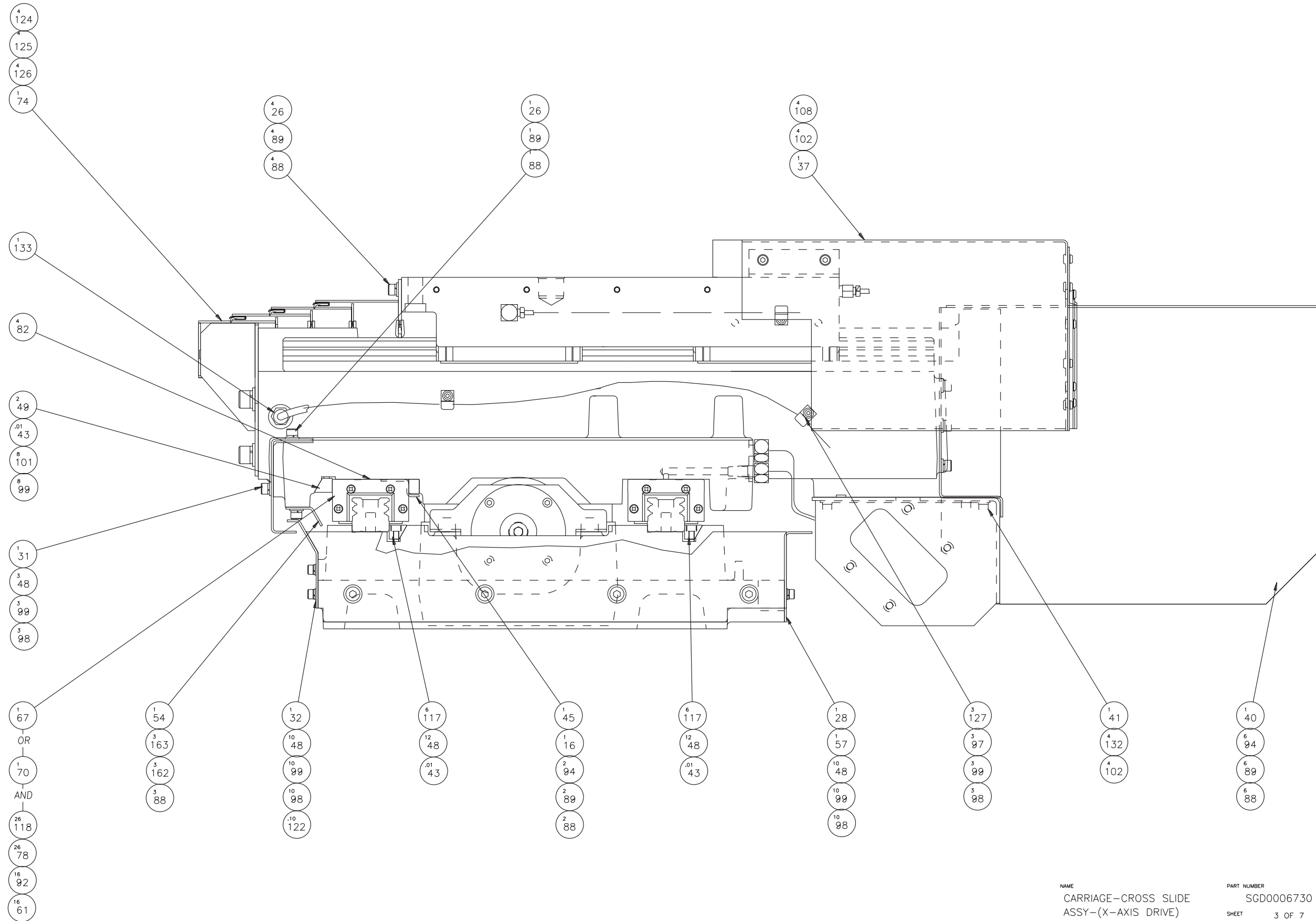
PART NUMBER
 SGD0006730

SHEET
 1 OF 7

Carriage/Cross Slide Assembly



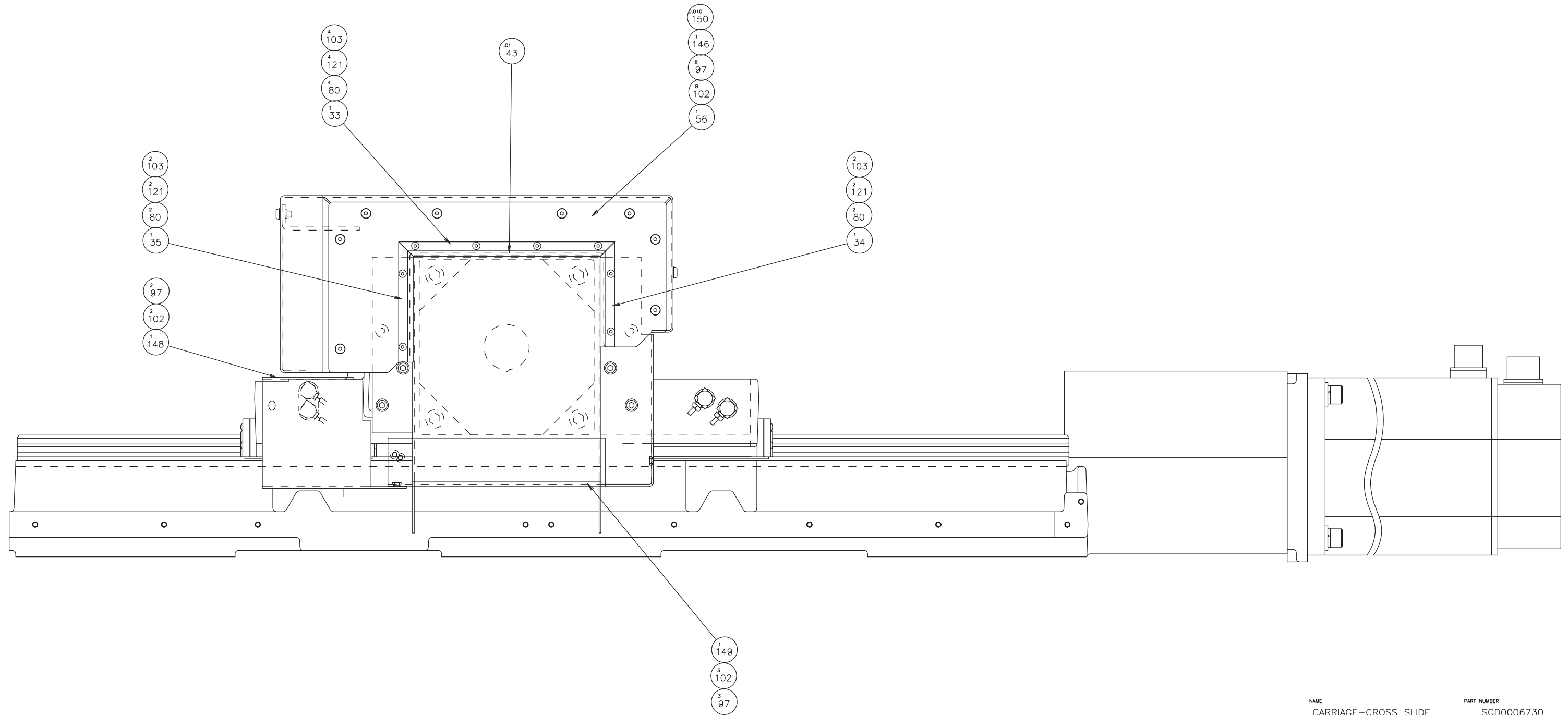
NAME: CARRIAGE-CROSS SLIDE ASSY-(X-AXIS DRIVE)
 PART NUMBER: SGD0006730
 SHEET: 2 OF 7



NAME
CARRIAGE-CROSS SLIDE
ASSY-(X-AXIS DRIVE)

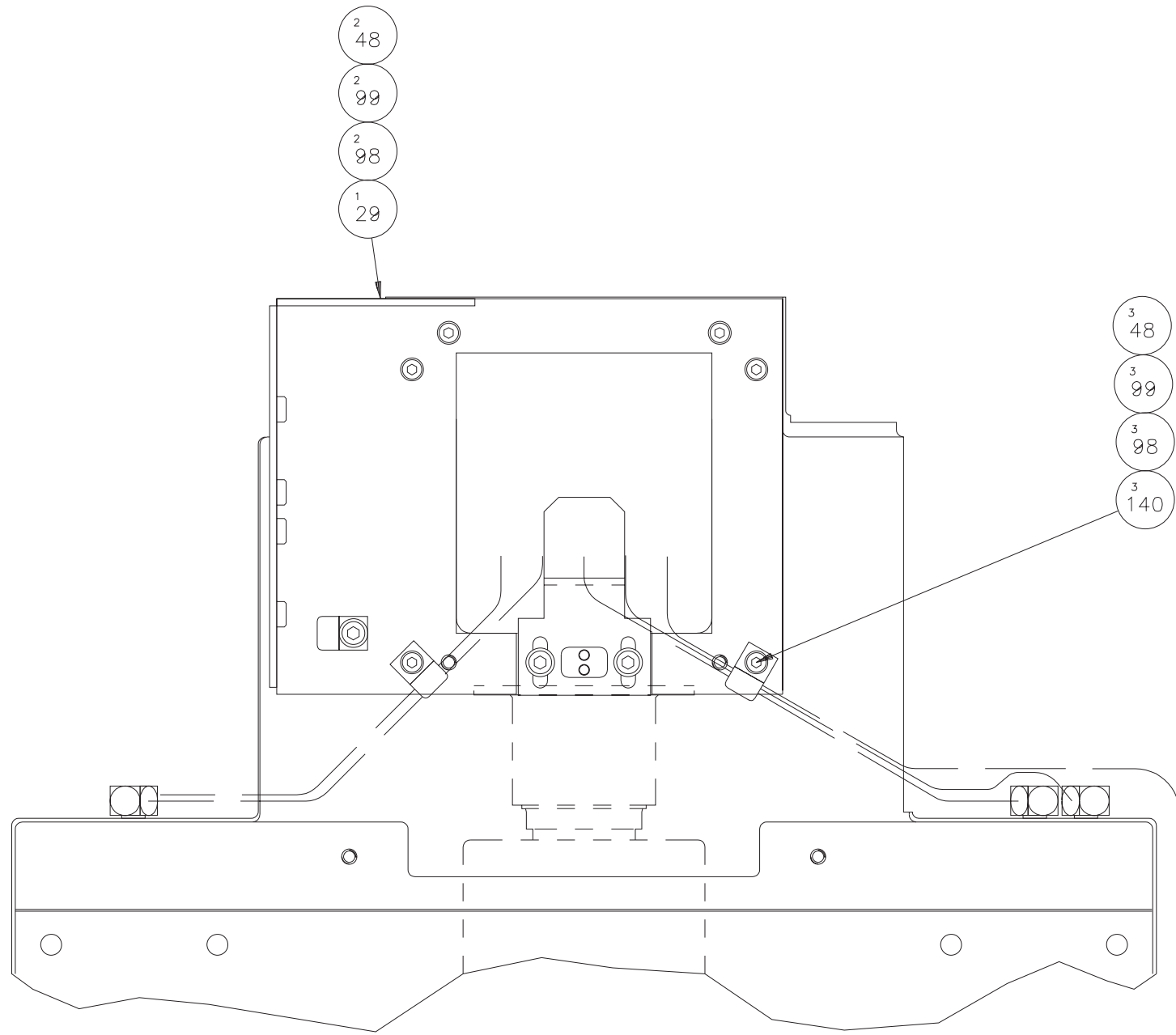
PART NUMBER
SGD0006730
SHEET 3 OF 7

Carriage/Cross Slide Assembly



NAME
CARRIAGE-CROSS SLIDE
ASSY - REAR VIEW

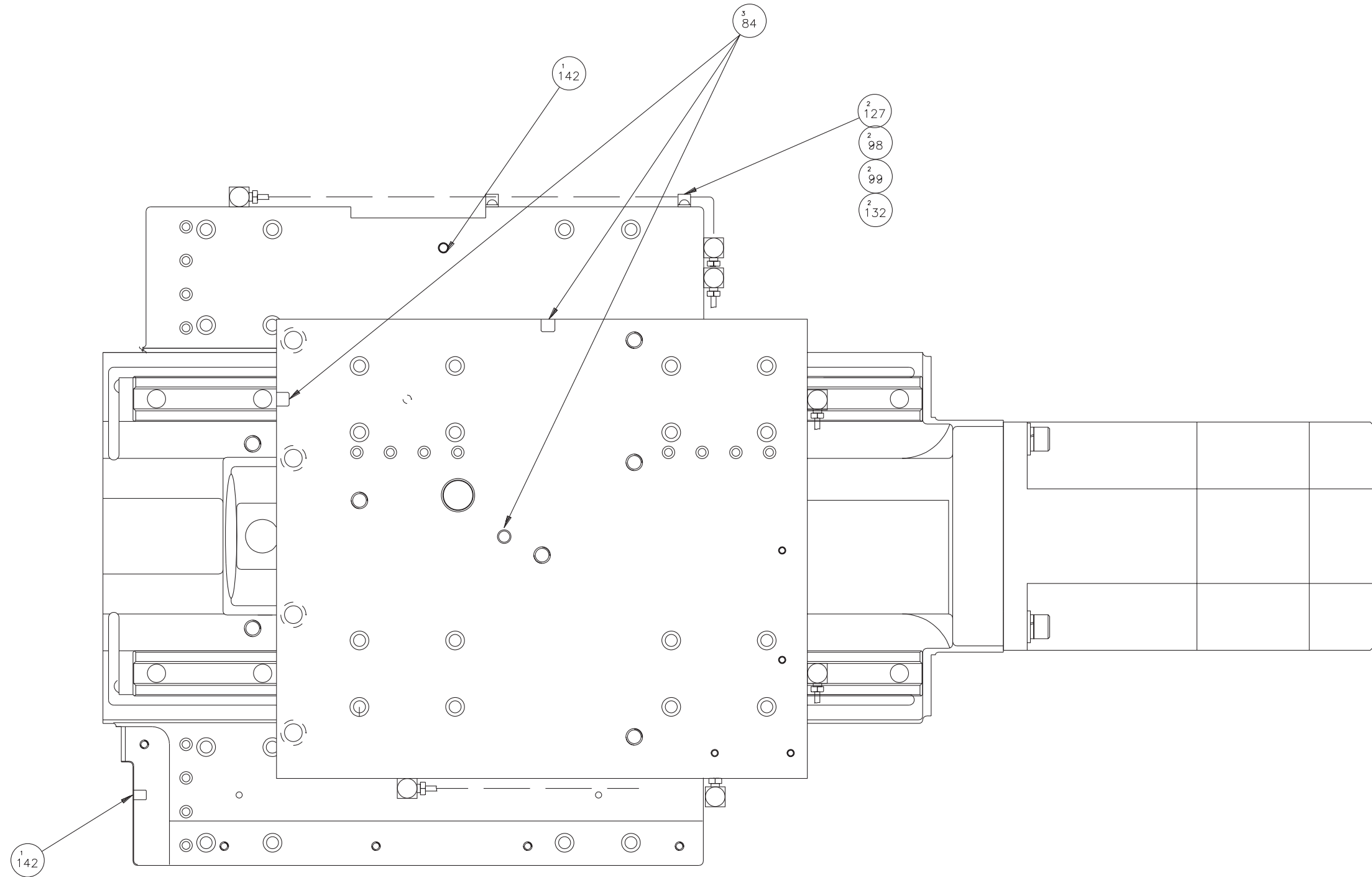
PART NUMBER
SGD0006730
SHEET 4 OF 7



NAME
CARRIAGE-CROSS
SLIDE ASSEMBLY

PART NUMBER
SGD0006730
SHEET 5 OF 7

Carriage/Cross Slide Assembly



NAME
CARRIAGE-CROSS
SLIDE ASSEMBLY

PART NUMBER
SGD0006730
SHEET 6 OF 7

Carriage/Cross Slide Assembly

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SG 0000371 B	1.000	CARRIAGE, C.S. MACHINE
2	SGA0007202	1.000	CROSS SLIDE
3	SGA001011532	1.000	COVER, BRAKE
4	SG 0011776	1.000	HOUSING, BEARING
5	SG 0011776 F	1.000	HOUSING, BEARING-FRONT X-AXIS
6	CSA001177601	1.000	HOUSING, BEARING
7	CSB0000343	1.000	RETAINER, BEARING Z-AXIS
9	BP 0000402	1.000	PLUG, BRASS
10	CH 0004732	3.000	PLUG, BRASS
14	CL 0017990 2	1.000	NUT, BEARING
16	CL 0011083	1.000	RETAINER, TRAM SHIM
17	CS 000026005	2.000	NUT, LOCK
18	CS 0002022	1.000	KEY
19	CS 001119814	2.000	SEAL, LABYRINTH
20	SGA0011137 F	1.000	RETAINER, FRONT BEARING X-AXIS
21	CSA0011137	2.000	RETAINER, BEARING
22	CS 000179909	1.000	NUT, ADJUSTING
23	MS 0103519	6.000	M5 SCREW, SKHD CP x 25mm
24	CSA0000492	2.000	NUT, ADJUSTABLE SPIETH
25	CSB001042101	1.000	PLATE, MOTOR MOUNT Z-AXIS
26	MS 0103617	29.000	M6 SCREW, SKHD CP x 16mm
27	CSB001197602	3.000	STOP, Z-AXIS AFT
28	SG 001102701	1.000	LABYRINTH, REAR Z-AXIS
29	SG 000299020	1.000	BRACKET, GORETUBE
30	SGA000299045	1.000	LABYRINTH, X-AXIS
31	SG 000399024	1.000	COVER, CARRIAGE FRONT
32	SG 000399025	1.000	LABYRINTH, FRONT Z-AXIS
33	CS 0008050	1.000	WIPER
34	CS 000805001	1.000	WIPER
35	CS 000805002	1.000	WIPER
36	CL 000284001	8.000	WASHER, FLAT 7/16 HARDENED
37	SG 001011533	1.000	COVER, REAR WAY X-AXIS
38	SG 001011534	1.000	COVER, SWITCH
39	SG 001011535	1.000	COVER
40	SGA00101154B	1.000	COVER, X-AXIS MOTOR
41	SG 001011541	1.000	COVER, TORQUE LIMITER
42	NC 001088401	.270	ADHESIVE, LOCTITE #222
43	CS 0010994	.110	GREASE
44	SG 0011027	1.000	BRACKET
45	SG 0011083	1.000	SHIM, TRAM
46	SG 001142302	1.000	SUPPORT, HEADWALL
48	MS 0103517	54.000	M5 SCREW, SKHD CP x 16mm
49	SG 000648101	4.000	GIB, GUIDE TRUCK
51	SG 001021507	1.000	BRACKET, PROXIMITY SWITCH
52	MS 0553512	4.000	M5 SCREW, SOC SET CUP
53	SGA001022404	2.000	SWITCH, PROXIMITY
54	SG 0011027 C	1.000	DRIP EDGE, TRAM OIL
56	SG 001011565	1.000	COVER, CROSS SLIDE - REAR

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
57	SG 001102702	1.000	LABYRINTH, REAR Z-AXIS
59	SG 001197601	1.000	STOP, Z-AXIS
60	CSA0011976	4.000	BUMPER
61	MS 0103819	36.000	M8 SCREW, SKHD CP x 25mm
62	CSA0004140	10.000	BEARING, BALL SCREW SUPPORT
63	CS 001119803	2.000	CR #12710 SEAL
64	CS 000943125	1.000	O-RING
66	SG 0001902XK	1.000	BALL SCREW, X-AXIS
67	SGA0008316	1.000	LINEAR WAYS, Z-AXIS GEN
68	SGA000831601	1.000	LINEAR WAYS, X-AXIS GEN
69	SGA000831604	1.000	LINEAR WAYS, X-AXIS SP
70	SG 000831605	1.000	LINEAR WAYS, Z-AXIS SP
71	SG 00101152F	1.000	WAYCOVER, Z AXIS FRONT
74	SG 0010115 X	1.000	WAYCOVER, X AXIS
75	SG 0012128	2.000	TORQUE LIMITER
76	SG 0010115ZR	1.000	WAYCOVER, Z AXIS REAR
77	DR 0007275	1.000	O-RING, 4.5 ID x .093
78	SG 001033102	42.000	PLUG, LINEAR GUIDE
79	SG 001119817	2.000	SEAL, CR#12740
80	MW 0103410	8.000	M4 WASHER, FLAT
81	DR 0006063	1.000	O-RING, 3-3/4 ID x .093
82	DR 0000406	8.000	O-RING
83	DR 0004346	1.000	O-RING
84	S 001070009	3.000	?
85	SG 0001902K1	1.000	BALL SCREW, Z-AXIS
86	MS 0103518	4.000	M5 SCREW, SKHD CP x 20mm
87	MS 0575018	1.000	M20 SCREW, SOC SET FLAT
88	MW 0103610	36.000	M6 WASHER, FLAT
89	MW 0193610	52.000	M6 WASHER, LOCK
90	MS 0104226	4.000	M12 SCREW, SKHD CP x 60mm
91	MS 0103818	4.000	M8 SCREW, SKHD CP x 20mm
92	MW 0193810	40.000	M8 WASHER, LOCK
93	MW 0103810	4.000	M8 WASHER, FLAT
94	MS 0103616	16.000	M6 SCREW, SKHD CP x 12mm
95	SG 000190202	1.000	BALL SCREW, X-AXIS (CHINA)
96	CS 000943104	2.000	O-RING
97	MS 0303515	36.000	M5 SCREW, BUTT HD x 10mm
98	MW 0103510	35.000	M5 WASHER, FLAT
99	MW 0193510	62.000	M5 WASHER, LOCK
100	MS 0553411	1.000	M4 SCREW, SET x 4mm
101	MS 0103520	20.000	M5 SCREW, SKHD CP x 30mm
102	MW 0263510	29.000	M5 WASHER, STAR
103	MS 0303416	8.000	M4 SCREW, BUTT HD x 12mm
104	NC 0010884	.050	ADHESIVE, LOCTITE #242
105	CS 000943102	1.000	SEAL

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
106	MS 0103521	3.000	M5 SCREW, SKHD CP x 35mm
108	MS 0303516	4.000	M5 SCREW, BUTT HD x 12mm
109	CS 000943101	2.000	O-RING
111	SG 001021508	1.000	BRACKET, PROXIMITY SWITCH
116	CSA001179202	1.000	COUPLING, FLEXIBLE
117	SG 0006481	12.000	GIB, GUIDE RAIL
118	MS 0103820	42.000	M8 SCREW, SKHD CP x 30mm
119	CS 000823102	1.000	RING, RETAINING
121	MW 0183410	8.000	M4 WASHER, LOCK
122	GE 0010884	.100	SILICONE
124	MS 0104018	4.000	M10 SCREW, SKHD CP x 20mm
125	MW 0194010	4.000	M10 WASHER, LOCK
126	MW 0104010	4.000	M10 WASHER, FLAT
127	CH 000962301	5.000	CLAMP, 1/4
128	CLB001046203	1.000	BRAKE, X-AXIS
131	MW 0194210	8.000	M12 WASHER, LOCK
132	MS 0103516	6.000	M5 SCREW, SKHD CP x 12mm
133	CS 000920703	1.000	CORD GRIP, STRAIGHT
140	KL 0009623	3.000	CLAMP, 3/8"
142	S 01070007	2.000	?
144	MS 0104223	4.000	M12 SCREW, SKHD CP x 45mm
146	SG 0010116 X	1.000	GASKET, CROSS SLIDE REAR
147	SGA0010116 Y	1.000	GASKET, FLANGE
148	SG 0010115CS	1.000	COVER, CARRIAGE REAR
149	SGA0010115CR	1.000	COVER, CROSS SLIDE - REAR
150	3 001088401	.030	ADHESIVE
151	LD 0002637	1.000	TAG LAYOUT
152	LD 0002637BS	1.000	TAG LAYOUT
153	18A000301103	12.670	CABLE
154	NC 001047306	.120	HEAT SHRINK
155	8530009188RA	1.000	STAKON
156	F3 0009977	2.000	CODE MARKER
157	MS 0103620	4.000	M6 SCREW, SKHD CP x 30mm
158	MS 0103618	15.000	M6 SCREW, SKHD CP x 20mm
160	RAA000918821	2.000	BUTTSPLICE
161	HR 0004574	1.000	CLIP, RETAINING
162	MS 0303616	3.000	SCREW, BHD M6 X 12mm
163	MW 0263610	3.000	WASHER, FLAT EXT STAR M6
164	HLA0010523	3.000	OIL, MOBIL VACTRA #2SLC
165	HG 0010884	.010	SEALANT

NOT SHOWN:

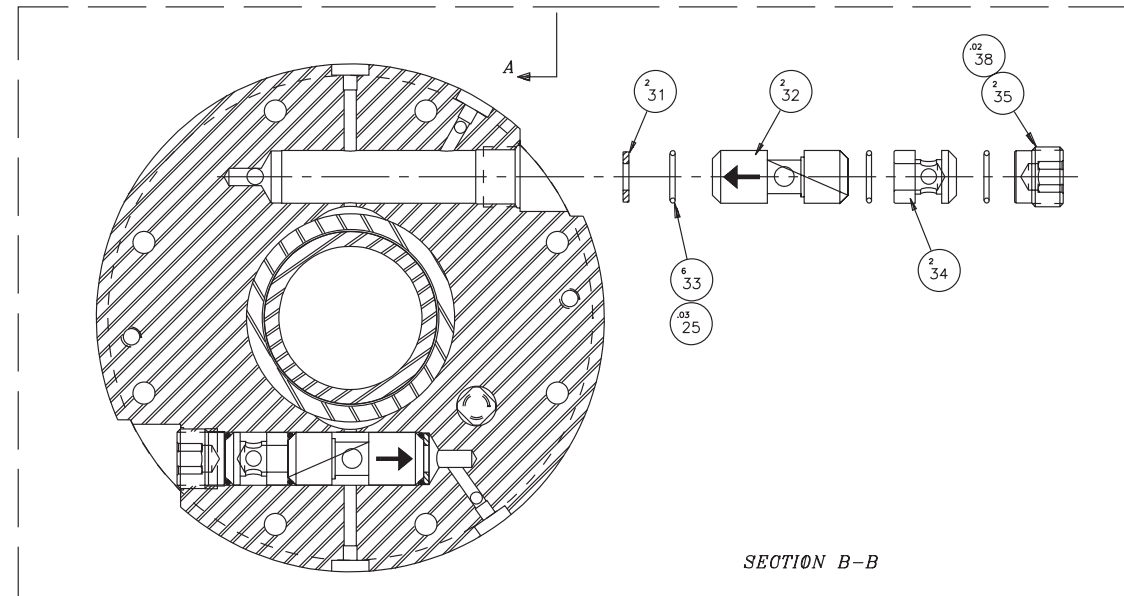
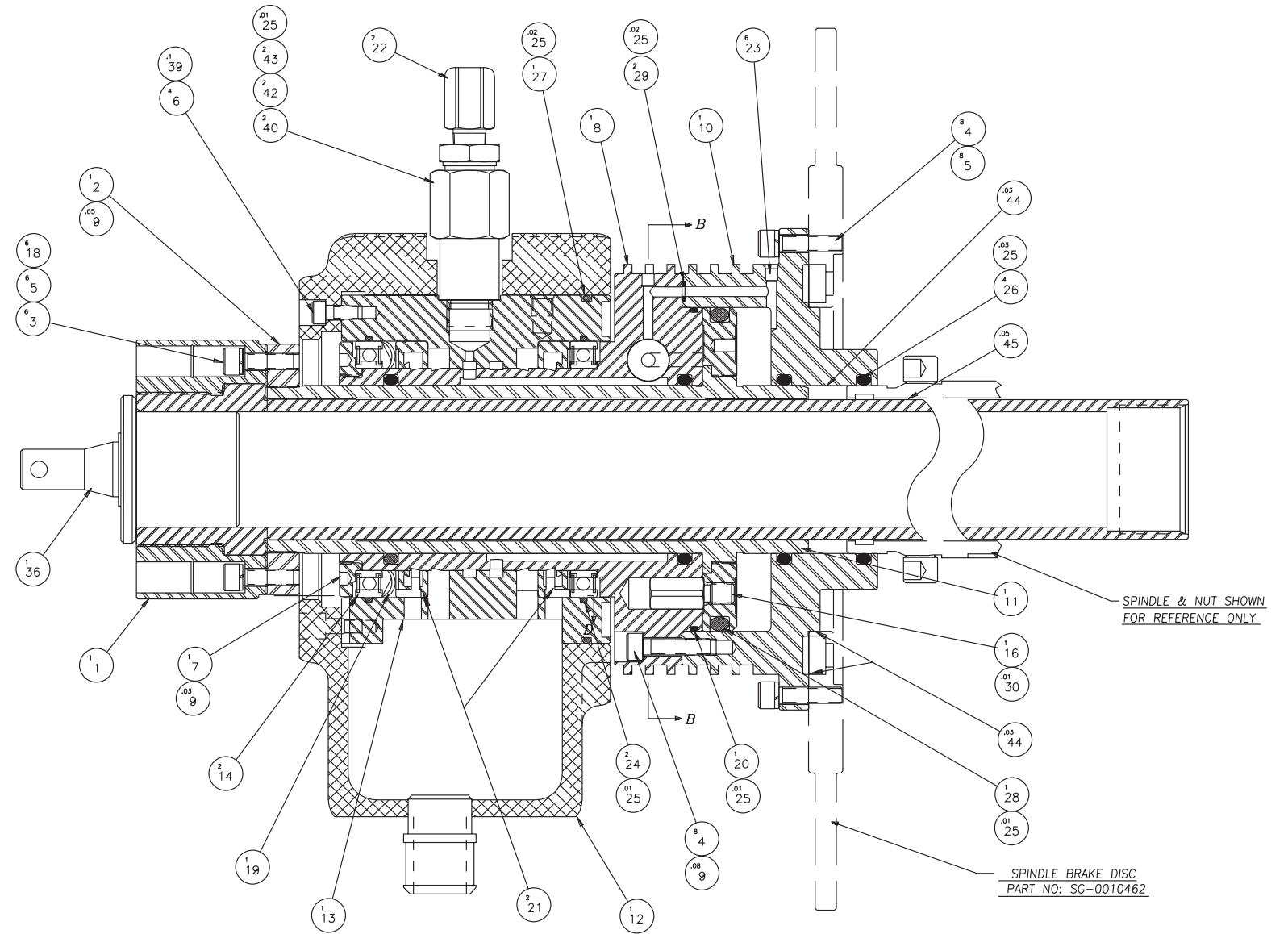
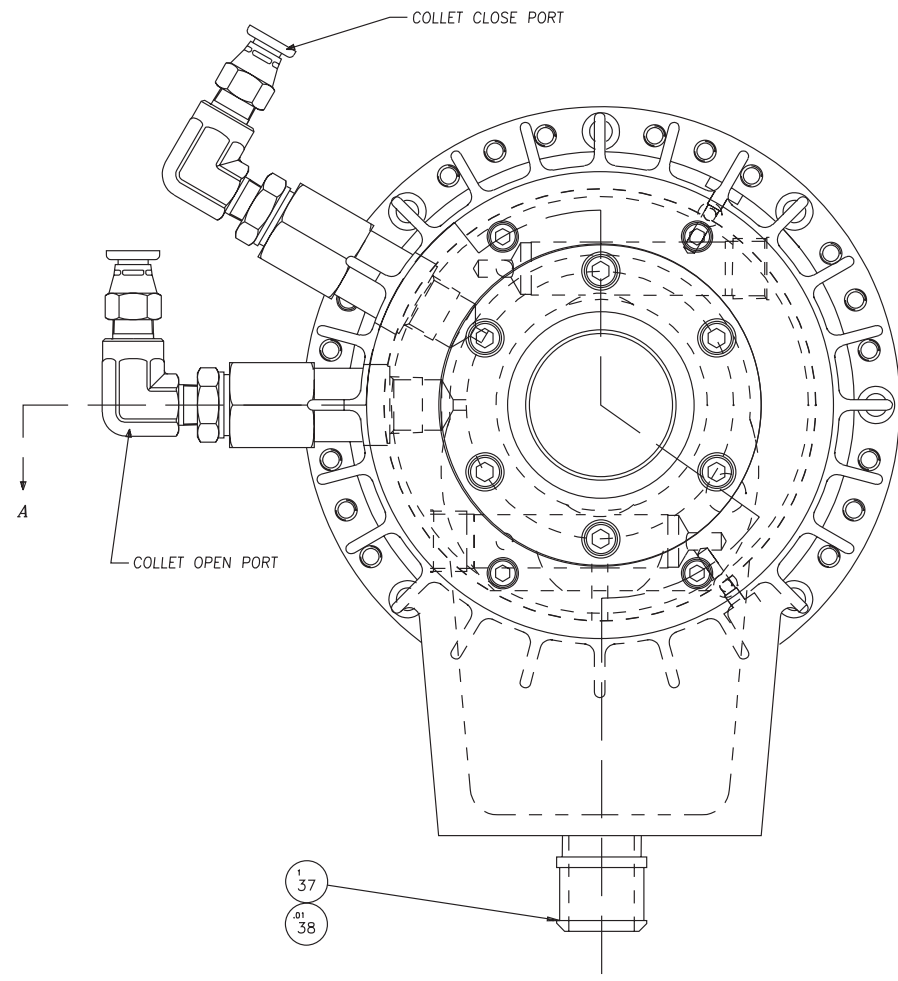


NAME
CARRIAGE-CROSS SLIDE
ASSEMBLY

PART NUMBER
SGD0006730

SHEET
7 OF 7

Collet Closer Assembly, Main Spindle



NAME: COLLET CLOSER ASSEMBLY
PART NUMBER: SGA0000006
SHEET: 1 of 2

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SGA0003015 A	1.000	DRAWTUBE ASSEMBLY
2	SG 000049202	1.000	NUT, ABUTMENT
3	MS 0103618	6.000	M6 SCREW, SOC HD X 20 MM
4	MS 0103619	16.000	M6 SCREW, SOC HD X 25 MM
5	MW 0193610	14.000	LOCK WASHER M6, SPRING
6	MS 0103516	4.000	M5 SCREW, SOC HD X 12 MM
7	SG 000049203	1.000	NUT, ADJUSTING
8	SG 001076801	1.000	PISTON CAP
9	NC 0010884	0.160	ADHESIVE, LOCTITE #242
10	SG 000040701	1.000	HOUSING, RING
11	SG 0009259 A	1.000	PISTON SLEEVE ASSY
12	SG 0004197	1.000	HOUSING, DRAIN
13	SG 000419701	1.000	BODY, HYDRAULIC INLET
14	SG 0008233	2.000	BEARING, COLLET CLOSER
16	SG 001114301	1.000	PIN
18	45 000823101	6.000	RING, RETAINING
19	SG 0007335	1.000	SPRING, WAVE
20	SG 000943105	1.000	O-RING, 115X2 (MM)
21	SG 0007852	2.000	RING, SEALING
22	CS 001125911	2.000	FITTING, ELBOW
23	SG 0007703	6.000	PLUG, LEE
24	SG 000943104	2.000	O-RING, 94X2 (MM)
25	RF 0010994	0.140	M55 GREASE
26	SG 000943101	4.000	O-RING 61 X 4.5
27	SG 000943129	1.000	O-RING, 123 X 2.5 (MM)
28	SG 000943102	3.000	"O" RING
30	CN 0010884	0.010	ADHESIVE, LOCTITE #680
31	CL 000323001	2.000	WASHER
32	CLC000304801	2.000	VALVE, CARTRIDGE LOCK
33	CL 001119804	6.000	SEAL, CARTRIDGE
34	CL 001048101	2.000	SPACER
35	CL 0004646	2.000	OLUG, RETAINING
36	SB 0011973	1.000	TURN-TITE CLOSURE ASS.
37	CS 000350402	1.000	CONNECTOR, 3/4-14 NPT
38	SB 0010884 S	0.030	HYDRAULIC SEALANT
39	NC 001088401	0.100	ADHESIVE, LOCTITE #222
40	CS 001125913	2.000	CONNECTOR, HYD. (METRIC)
42	CS 001042102	2.000	RING FOR ADAPTER
43	11 0009431	2.000	O-RING
44	VS 0010440	0.030	ANTI-SIEZE (MOLYLUBE)
44	VS 010440	0.030	ANTI-SIEZE (MOLYLUBE)
45	CS 0010994	0.050	MOBIL 28 GREASE
46	LO 0002623	1.000	ASSEMBLY INSTRUCTIONS
47	H 00095001415	1.000	TAG, HYD. PLUG WARNING

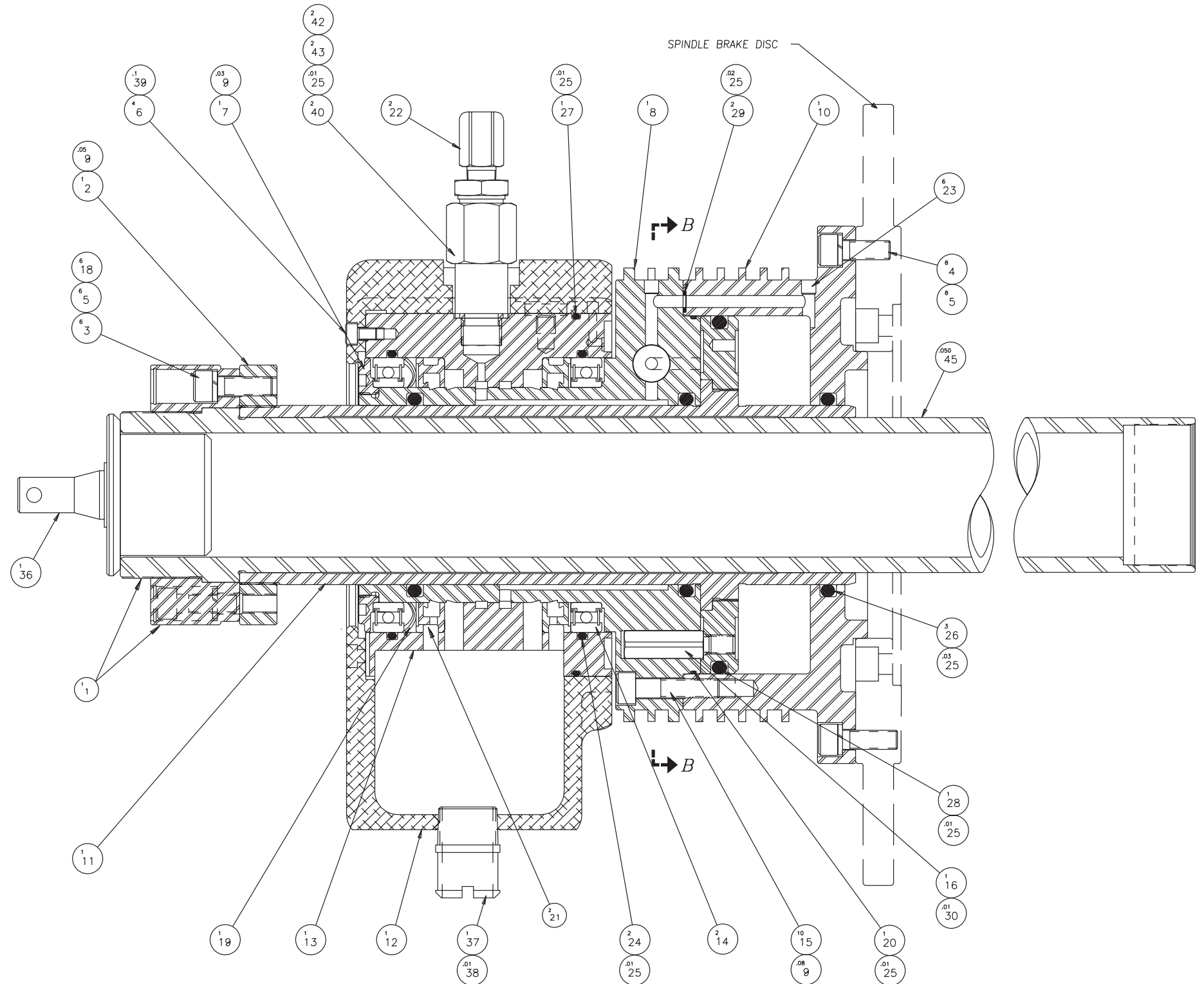
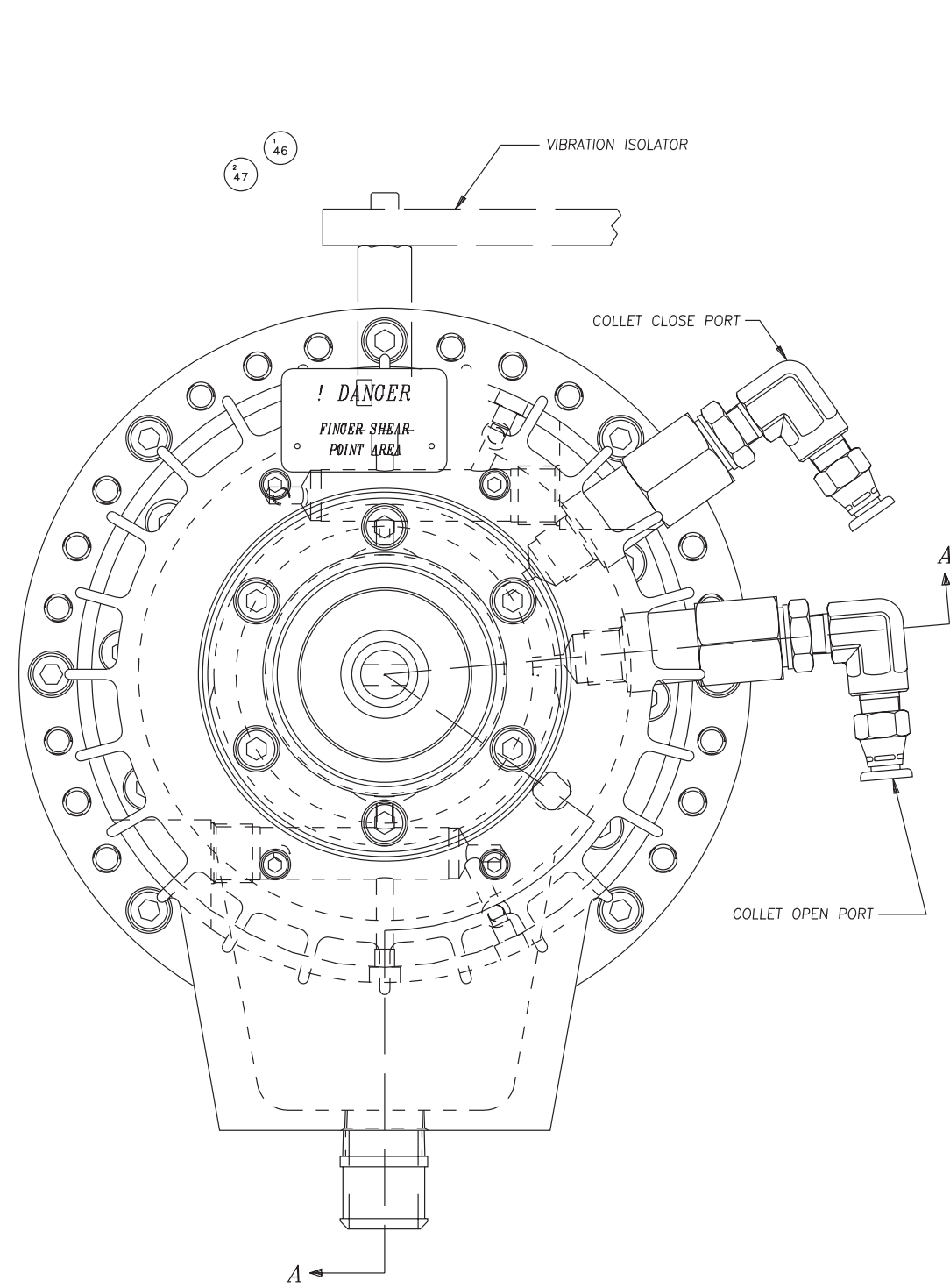
1
47

NAME
COLLET CLOSER ASSEMBLY

PART NUMBER
SGA0000006

SHEET 2 OF 2

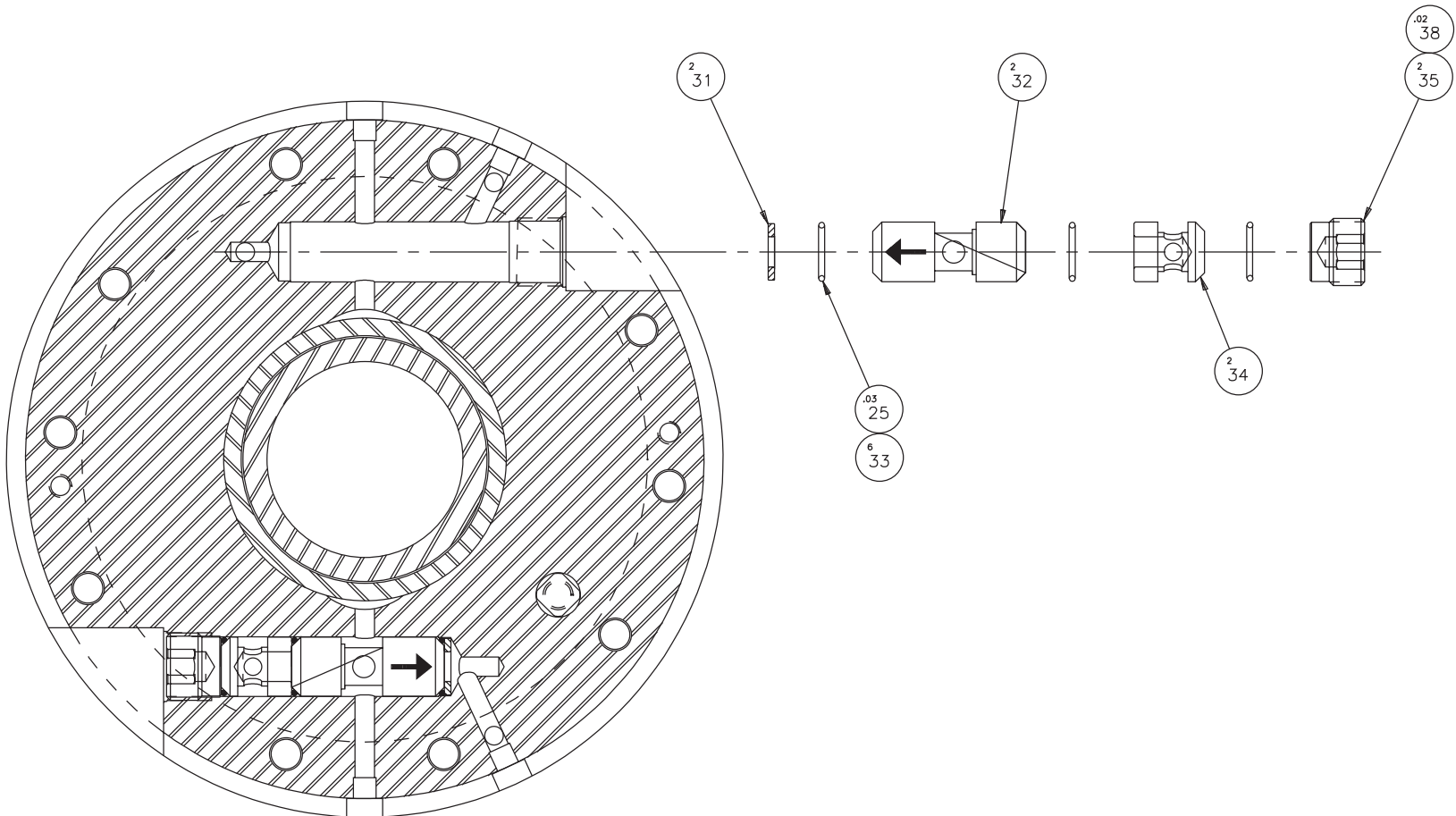
Collet Closer Assembly, Main Spindle, Big Bore



SECTION A-A

NAME	PART NUMBER
COLLET CLOSER ASSEMBLY	SG 000006BB
BIG BORE	SHEET 1 of 2

Collet Closer Assembly, Main Spindle, Big Bore



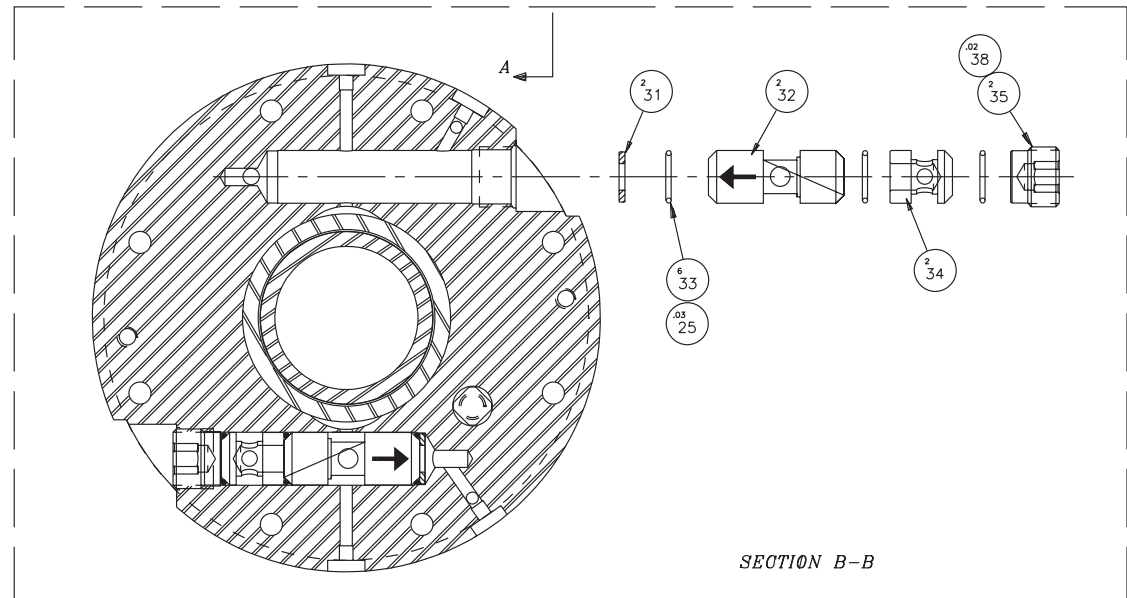
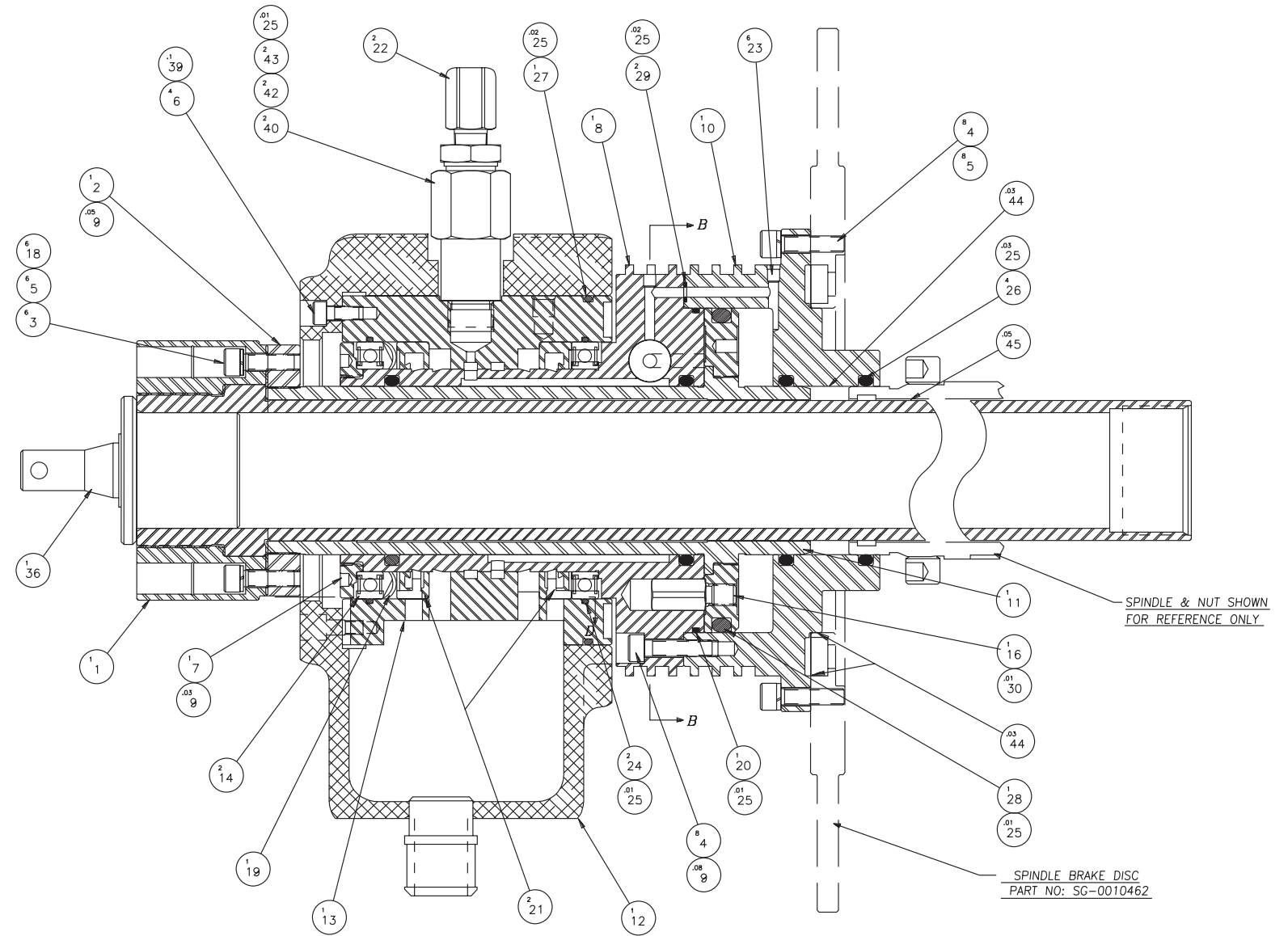
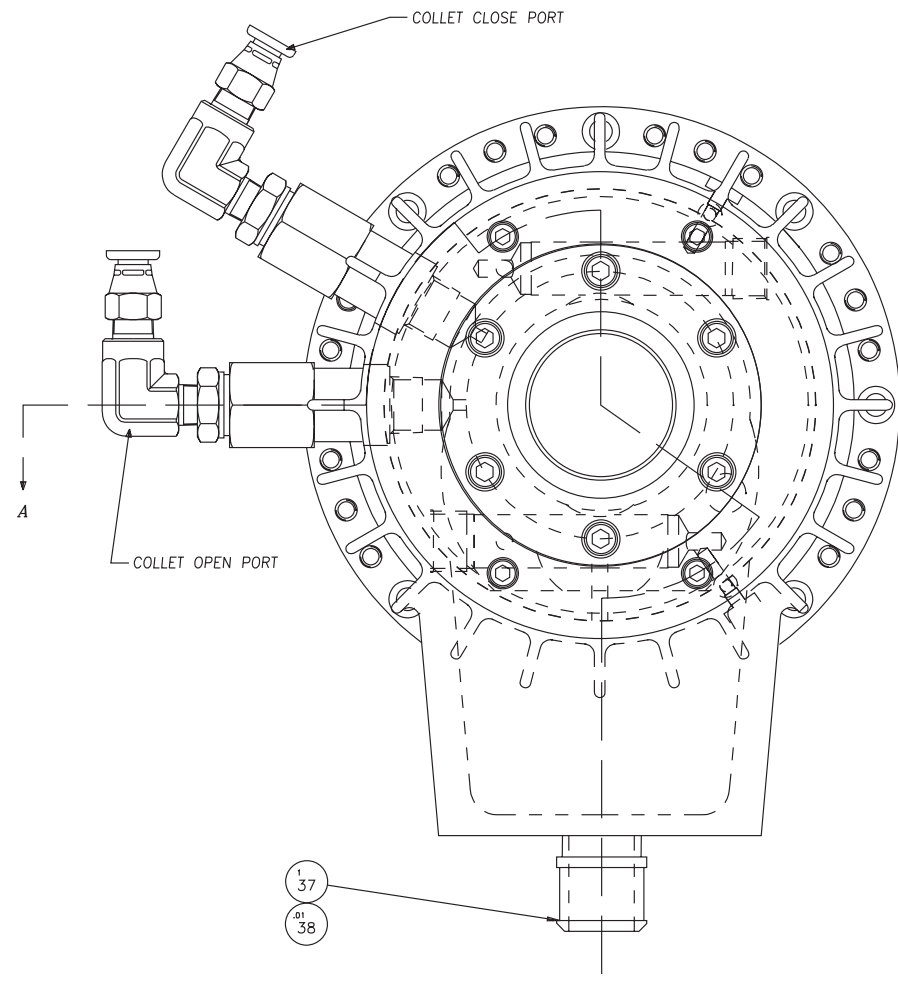
SECTION B-B

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SG 0003015 B	1.000	DRAWTUBE ASSEMBLY
2	CLA000049202	1.000	NUT, ABUTMENT
3	MS 0103819	6.000	M8 SCREW, SOCKET HD CAP
4	MS 0103818	8.000	M8 SCREW, SOCKET HD CAP
5	MW 0193810	14.000	LOCK WASHER, SPRING
6	MS 0103514	4.000	M5 SCREW, SOCKET HD CAP
7	CL 000049203	1.000	NUT, ADJUSTING
8	CL 001076801	1.000	PISTON CAP
9	NC 0010884	0.160	ADHESIVE, LOCTITE #242
10	CLA000040701	1.000	HOUSING, RING
11	CLB0009259 A	1.000	PISTON SLEEVE ASSY
12	CL 0004197	1.000	HOUSING, DRAIN
13	CL 000419701	1.000	BODY, HYDRAULIC INLET
14	CLA0008233	2.000	BEARING, COLLET CLOSER
15	MS 0103821	10.000	M8 SCREW, SOCKET HD CAP
16	CL 001114301	1.000	PIN
18	56 000823101	6.000	RING, RETAINING
19	CL 0007335	1.000	SPRING, WAVE
20	CL 000943105	1.000	O-RING
21	CL 0007852	2.000	RING, SEALING - RIGHT
22	CS 001125911	2.000	FITTING, ELBOW
23	CL 0007703	6.000	PLUG, LEE
24	OR 0007276 V	2.000	O-RING
25	RF 0010994	0.130	M55 GREASE
26	CL 000943101	3.000	O-RING
27	CS 000943129	1.000	O-RING
28	CL 000943103	1.000	O-RING
29	CL 000943102	2.000	O-RING
30	CN 0010884	0.010	ADHESIVE, LOCTITE #680
31	CL 000323001	2.000	WASHER
32	CLC000304801	2.000	VALVE, CARTRIDGE LOCK
33	CL 001119804	6.000	SEAL, CARTRIDGE (EXTERNAL)
34	CL 001048101	2.000	SPACER
35	CL 0004646	2.000	PLUG, RETAINING
36	CL 001197301	1.000	PLUG, TURN TITE EXPANSION
37	CS 000350402	1.000	CONNECTOR, 3/4-14 NPT
38	SB 0010884 S	0.030	SEALANT, HYDRAULIC
39	NC 001088401	0.100	ADHESIVE, LOCTITE #222
40	CS 001125913	2.000	CONNECTOR, HYD. (METRIC)
42	CS 001042102	2.000	RING FOR ADAPTER
43	11 0009431	2.000	O-RING
45	CS 0010994	0.050	MOBILE 28 GREASE
46	CLB001030204CE	1.000	TAG, FINGER SHEAR
47	R 0008044	2.000	PIN, ESCUTCHEON
48	LO 0002557	1.000	INST. COLLET CLOSER
49	CL 000918901	1.000	T-WRENCH, 6mm
50	H 00095001415	1.000	TAG, HYD. PLUG WARNING

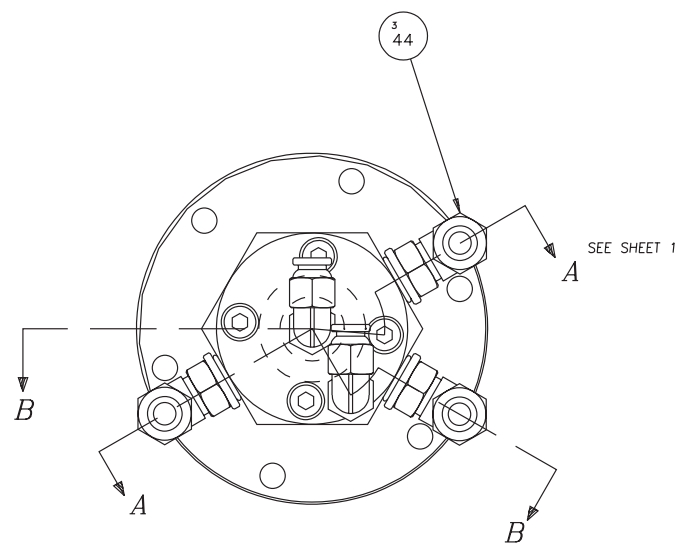
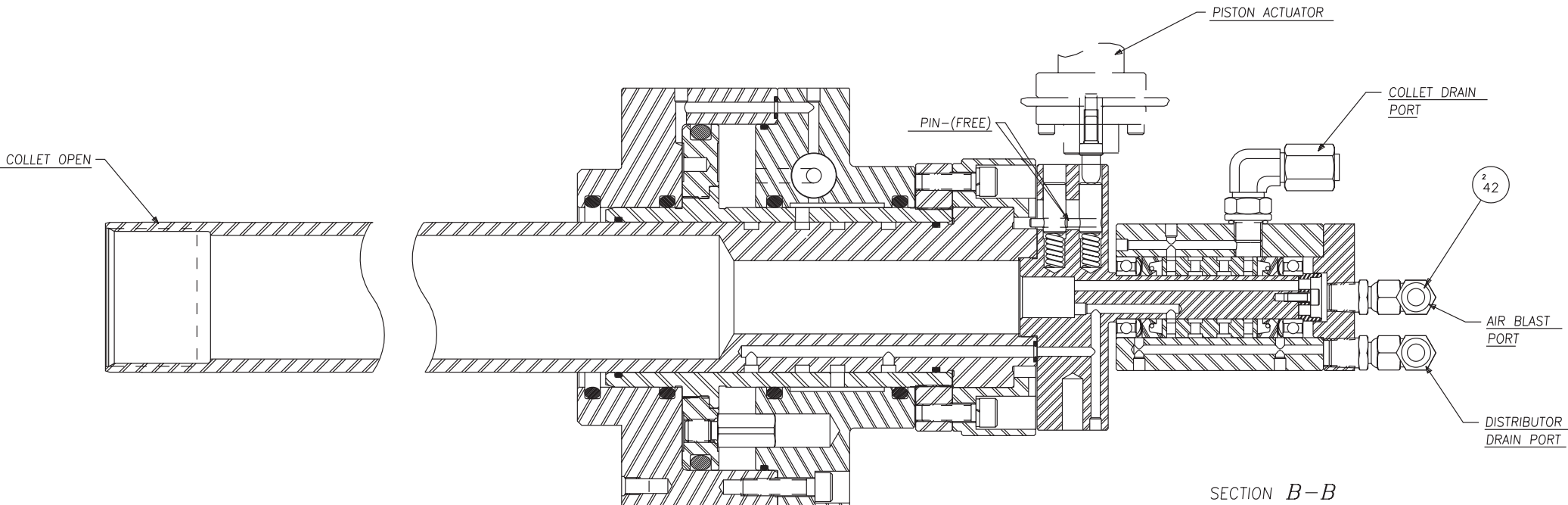
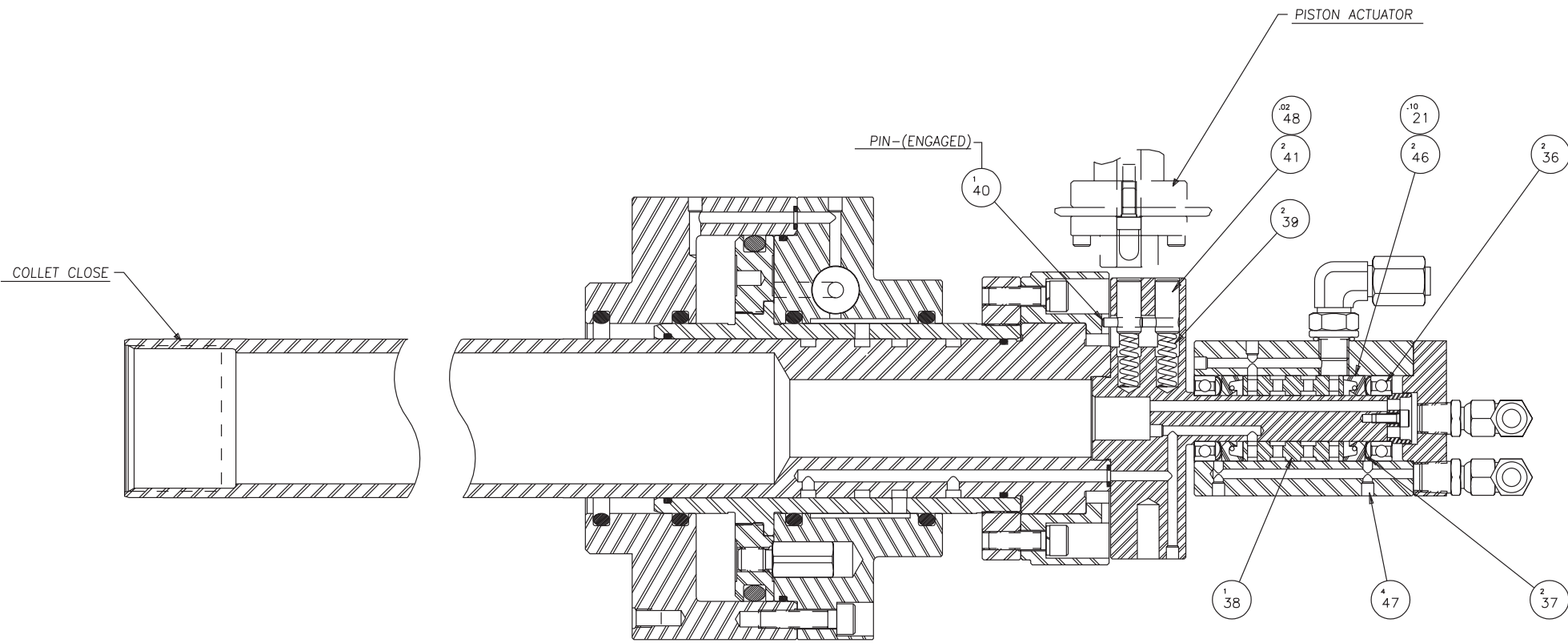
- 1
48
- 1
49
- 1
50

NAME: COLLET CLOSER ASSEMBLY
 BIG BORE
 PART NUMBER: SG 0000006BB
 SHEET: 2 OF 2

Collet Closer Assembly, Sub-Spindle

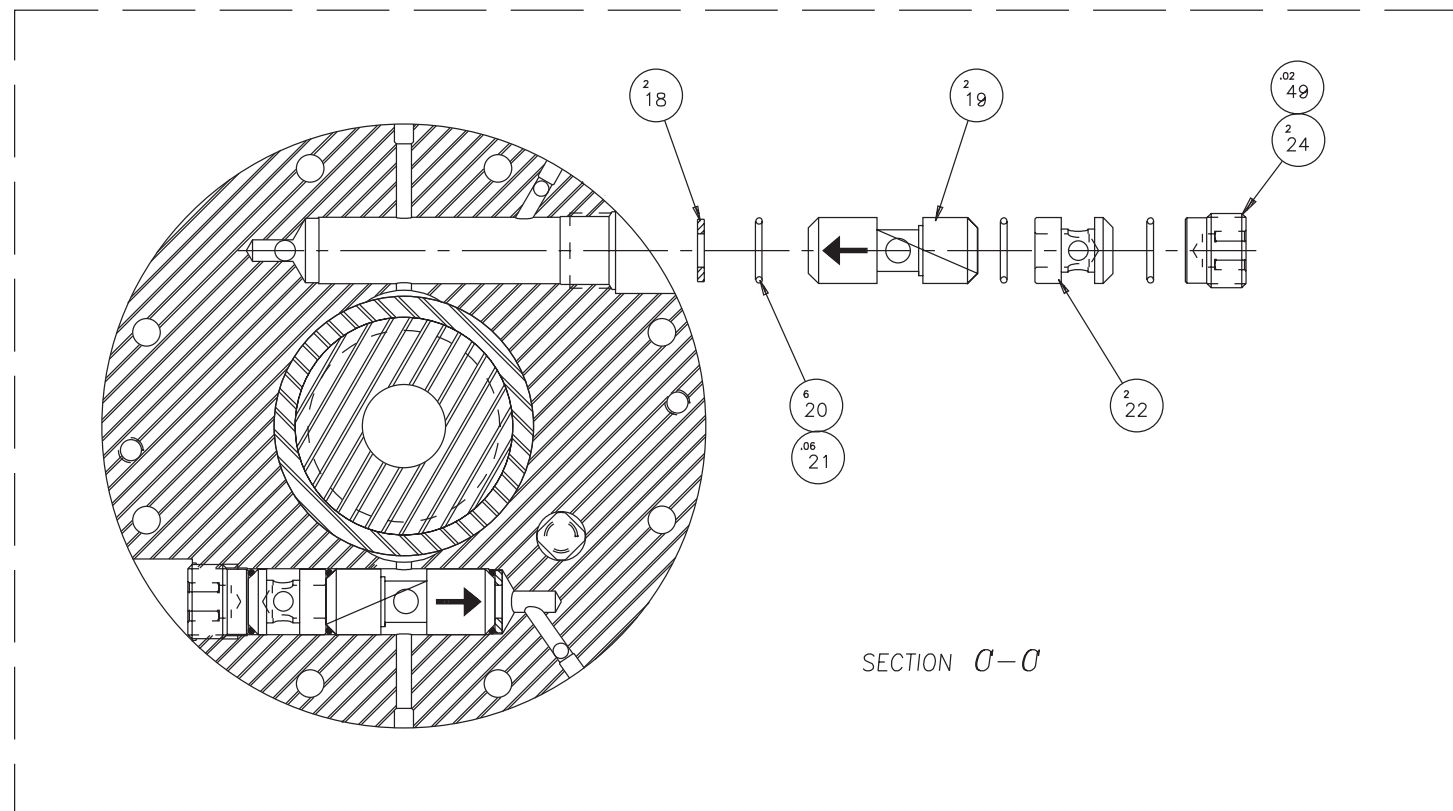


NAME: COLLET CLOSER ASSEMBLY
 PART NUMBER: SGA0000006
 SHEET: 1 of 2



NAME	PART NUMBER
COLLET CLOSER ASSEMBLY	SGA000000601
SUBSPINDLE	SHEET 2 OF 3

Collet Closer Assembly, Sub-Spindle

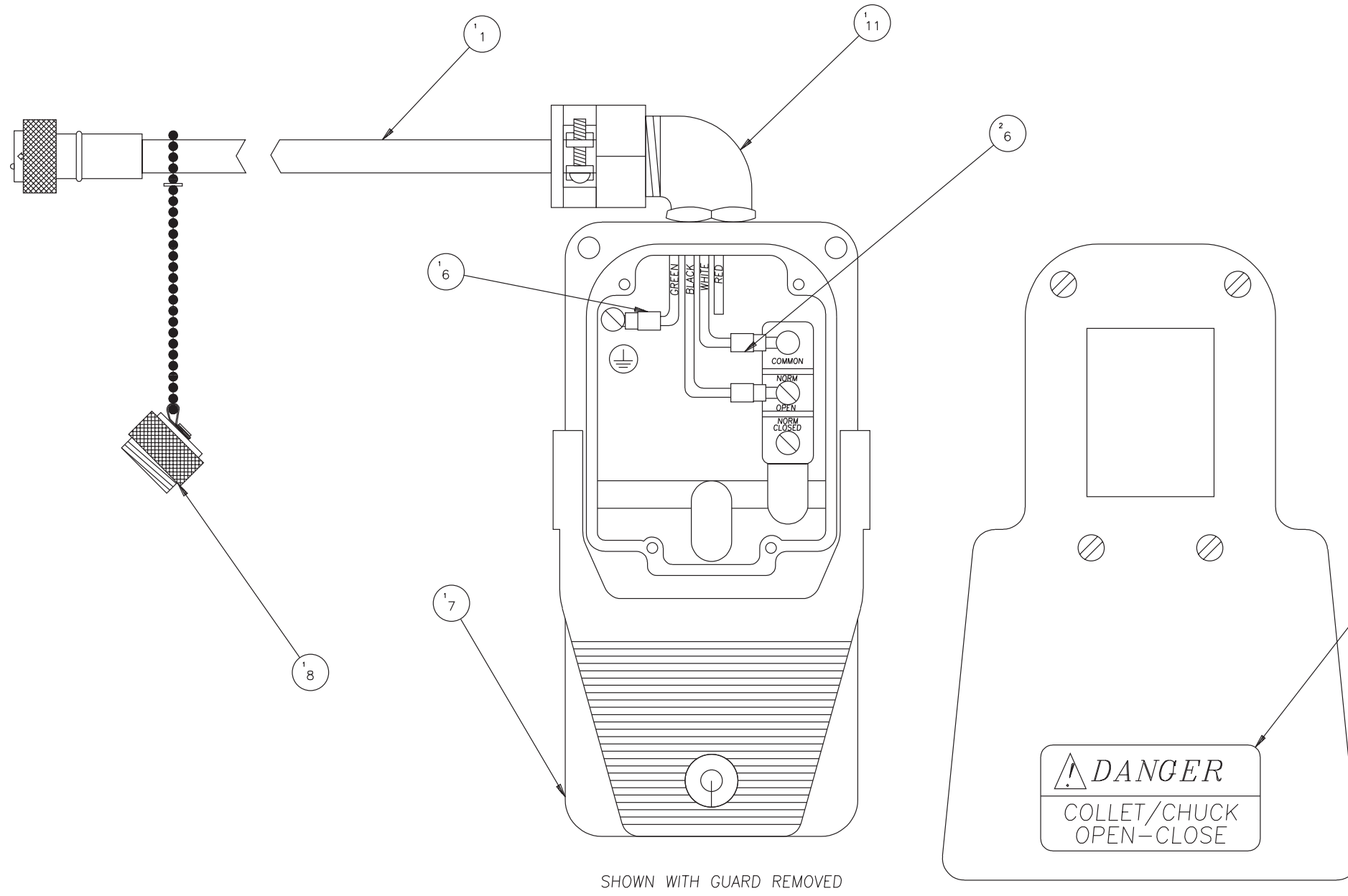


ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SGA00048004	1.000	DRAWTUBE, SUB-SPINDLE
2	SGA00040703	1.000	HOUSING, RING
3	SG 0008259 B	1.000	PISTON SLEEVE ASSY
4	SG 000843103	1.000	O-RING, 108 x 6mm
5	SG 001114301	1.000	PIN
6	MS 0103618	8.000	M6 SCREW, SKHD CP x 25mm
7	SG 000843133	1.000	O-RING, 53.0 x 2mm
8	SG 000843132	1.000	O-RING, 48.0 x 2mm
9	SG 001110901	1.000	BUSHING, HANDLE
10	MW 0193610	10.000	M6 WASHER, LOCK
11	MS 0103618	6.000	M6 SCREW, SKHD CP x 20mm
12	SG 000049202	1.000	NUT, ABUTMENT
13	SG 001076802	1.000	CAP, PISTON
14	SG 000843102	5.000	O-RING, 3.8 x 1.5 (MM)
15	SG 000843105	1.000	O-RING, 115 x 2mm
16	SG 0007703	6.000	PLUG, LEE (METRIC)
17	SG 000843101	4.000	O-RING
18	CL 000323001	2.000	WASHER
19	CLC000304801	2.000	VALVE, CARTRIDGE LOCK
20	CL 001119804	6.000	SEAL, CARTRIDGE (EXTERNAL)
21	RF 0010994	0.470	M55 GREASE
22	CL 001048101	2.000	SPACER
23	NC 0010884	0.130	ADHESIVE, LOCTITE #242
24	CL 0004646	2.000	PLUG, RETAINING
27	CN 0010884	0.010	ADHESIVE, LOCTITE #680
28	SGA000079603	1.000	SHAFT, DISTRIBUTOR
29	SG 000395001	1.000	NUT, RETAINING
30	MS 0103516	4.000	M5 SCREW, SKHD CAP x 12mm
31	MS 0103314	1.000	M3 SCREW, SKHD CAP x 8mm
32	SG 000034302	1.000	CAP, END
33	MS 0103620	4.000	M6 SCREW, SKHD CP x 30mm
34	CD 0004629	1.000	PIN, DOWEL
35	SG 000419702	1.000	BODY, HYDRAULIC INLET
36	SG 000823301	2.000	BEARING, HYDRAULIC INLET
37	SG 000733501	2.000	SPRING, WAVE
38	SG 001078511	1.000	BUSHING, INLET
39	SG 000733502	2.000	SPRING, 0.24 DIA
40	SG 0009873	1.000	PIN, LOCKING
41	SG 000826103	2.000	PISTON
42	ST 0007703	2.000	CONNECTOR, 90° SWIVEL
44	SG 0011259 N	3.000	NUT, MALE ELBOW-1/8 BSPP
46	SG 001119819	2.000	SEAL, OIL
47	S001070001	10.000	PLUG, LEE (ENGLISH)
48	VS 0010440	0.020	ANTI-SIEZE (MOLYLUBE)
49	SB 0010884 S	0.020	SEALANT, HYDRAULIC

NAME
COLLET CLOSER ASSEMBLY
SUBSPINDLE

PART NUMBER
SGA00000601

SHEET
3 OF 3



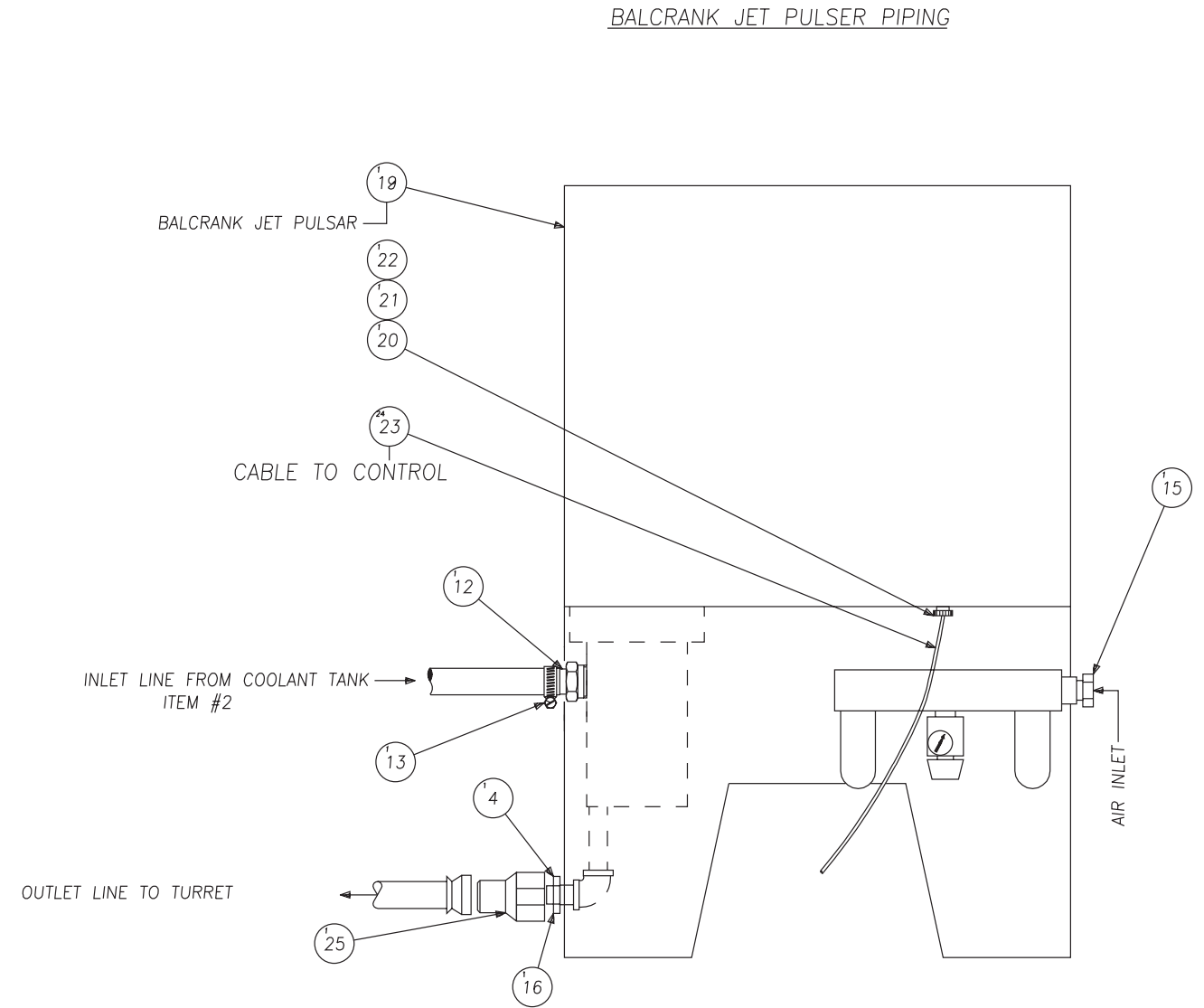
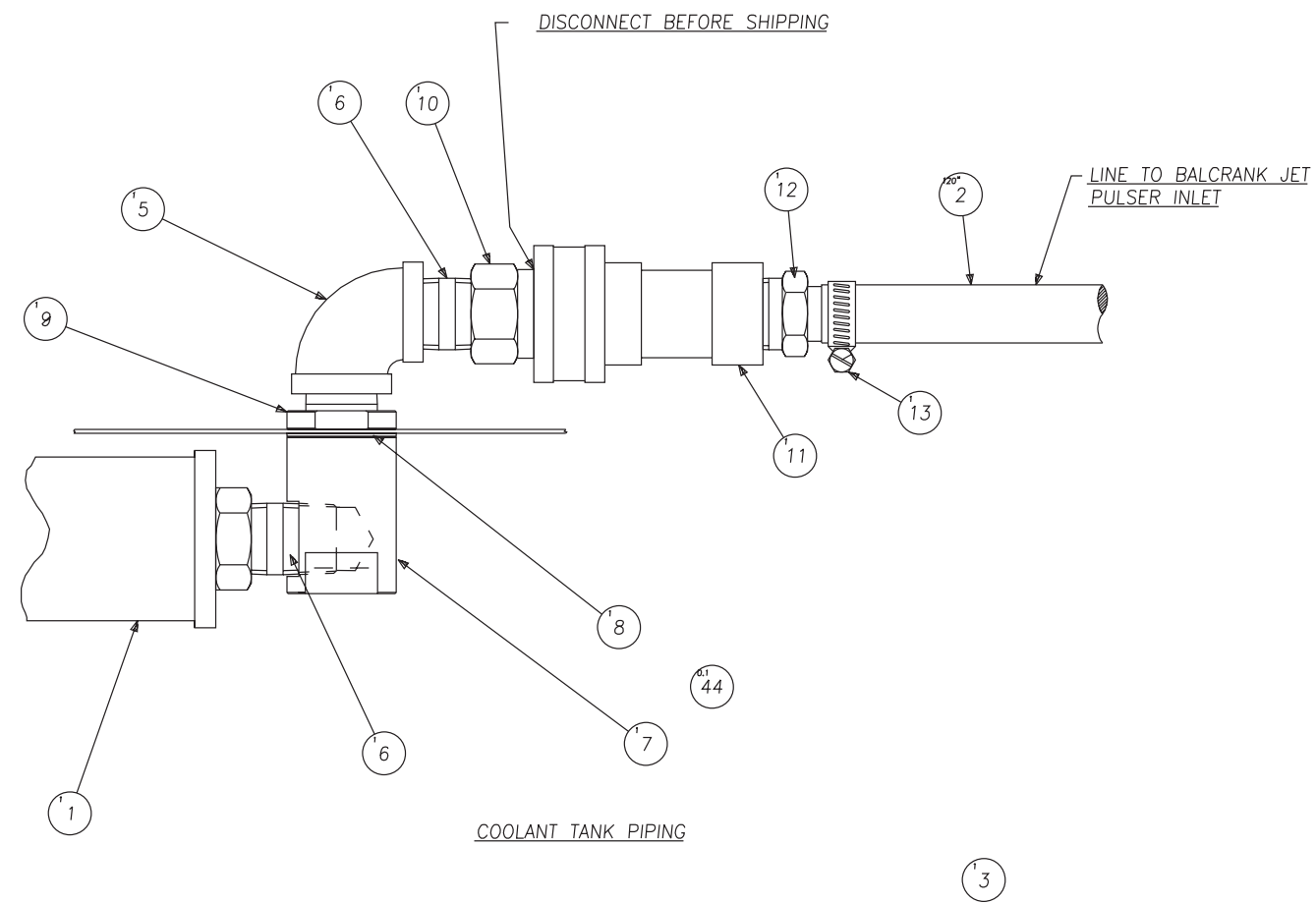
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	CL 0003011J2	1.000	CABLE
6	8630009188	3.000	STAKON
7	HG 000365001	1.000	SWITCH, FOOT
8	CS 001204216	1.000	PLUG
9	HG 001036601	1.000	TAG
10	HGA000010004	1.000	KITTING, PURCHASE PARTS
11	HG 0010042	1.000	STRAIN RELIEF

NAME
FOOT SWITCH ASSEMBLY

PART NUMBER
HGA0003650

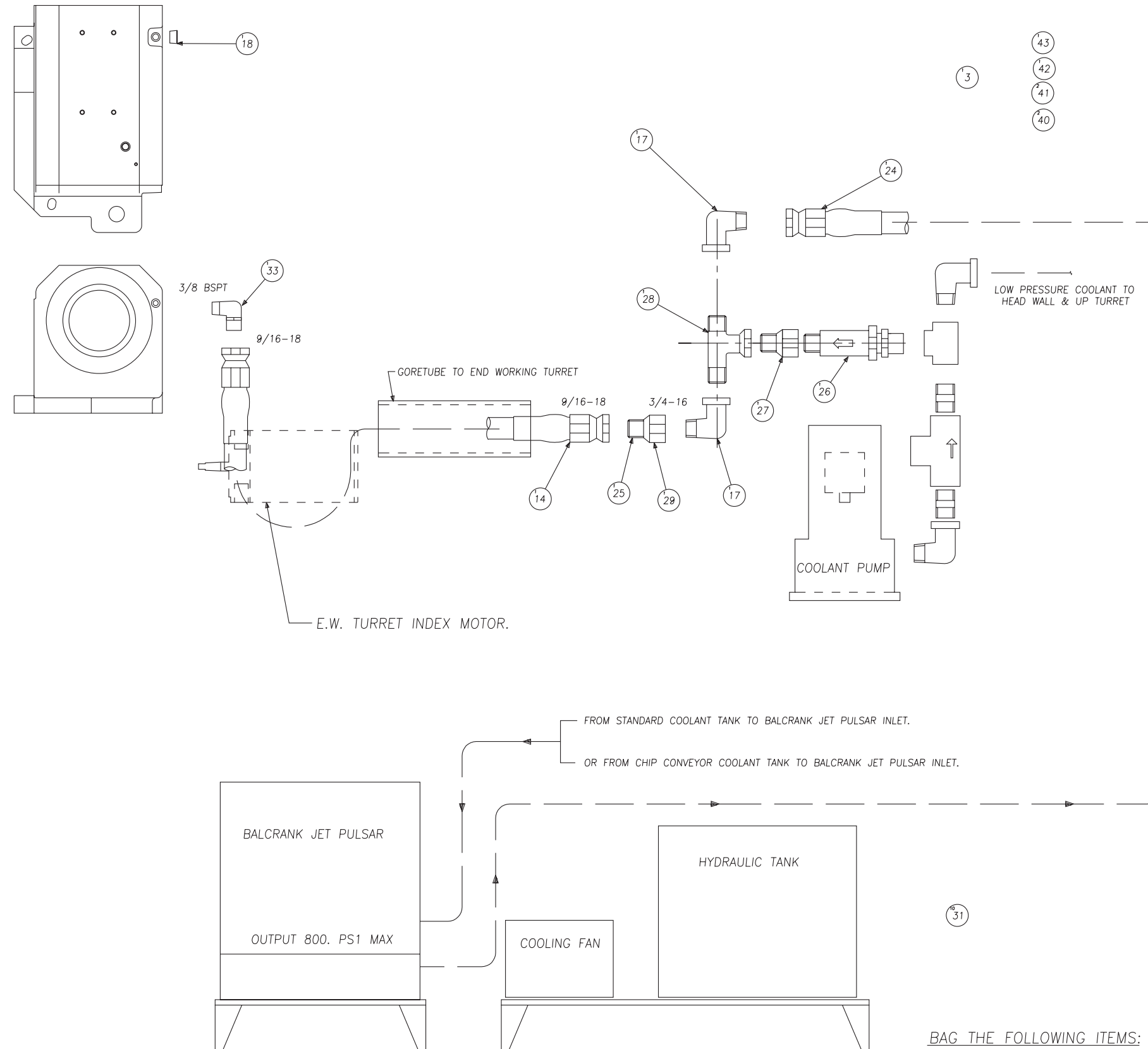
SHEET
1 of 1

Coolant Assembly, High Pressure, Machine with End-Working Turret



NAME	PART NUMBER
HIGH PRESSURE COOLANT LAYOUT	L0-0002762
(T-42 END WORKING TURRET ONLY)	SHEET 3 OF 4

Coolant Assembly, High Pressure, Machine with End-Working Turret



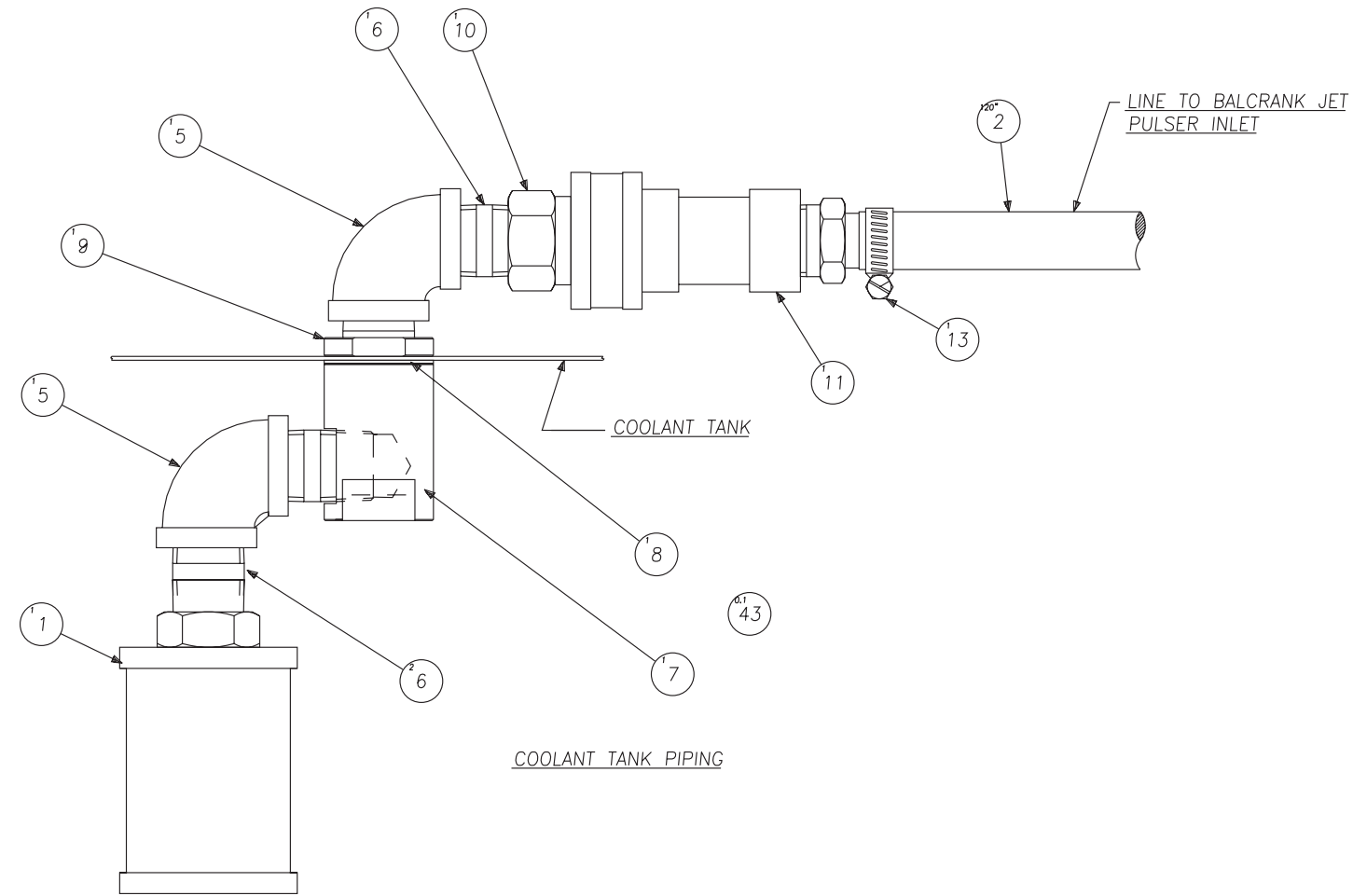
44	3-0010884-01	.1	ADHESIVE
43	HM-0009215	1	PLUG, 1 NPT
42	SG-0009424	1	REDUCER, 1 - 1/2 NPT
41	CL-0007703-01	2	STREET ELBOW, 1" NPT
40	SG-0007702-03	2	TEE, 1" NPT
39	CS-0010331-04	3	PLUG
38	RF-0011971	1	BAG-MAIL
37	LO-0002224	1	INSTRUCTIONS, PRIMING
36	CS-0009424-03	3	WASHER, TOOL HOLDER
33	SG-0010786-02	1	MALE ELBOW, 3/8 BSPT TO 9
31	AH-0009910	10	TIE-RAPS (LARGE)
29	SG-0010786-03	1	NUT, 3/4-16
28	SG-0008384-02	1	BRANCH TEE
27	CS-0008384-07	1	ADAPTER, STRAIGHT
26	CS-0011452-05	1	VALVE, CHECK
25	SG-0010785-04	2	REDUCER, 3/4-16 F TO 9/16
24	CS-0007007-03	1	HOSE ASSY, HYD 72
23	18A- 0003011-04	24	CABLE
22	AH-0011508	1	NUT, LOCK
21	50-0010226	1	GASKET ASSEMBLY, 1/2 INCH
20	18-0009207-50	1	CONNECTOR CABLE
19	CS-0003325-02	1	COOLANT PUMP, HIGH PRESSU
18	TM-0006992	1	PLUG, 1/4 NPT HOLLOW PIPE
17	CS-0008384-06	2	ADAPTER, 90 SWIVEL
16	CL-0010331-03	1	PLUG, 37 DEG FLARE
15	CS-0001914-10	1	BUSHING PIPE
14	SG-0007007-04	1	HOSE 3/8 ID -6
13	SB-0006966-02	2	CLAMP, HOSE
12	CL-0008384	2	CONNECTOR, 1" NPTF
11	CL-0011259	1	COUPLER, 1" QUICK CONNECT
10	CL-0011259-03	1	COUPLER, QUICK DISCONNECT
9	SG-0009432-CT	1	NUT, CHIP TANK ADAPTER
8	SG-0010116-CT	1	GASKET, CHIP TANK ADAPTER
7	SG-0001914-BA	1	ADAPTER, CHIP TANK
6	SG-0003504-01	2	1" NPT x 2" SCHD 40 NIPPL
5	MC-0007703-03	1	ELBOW, 1" NPT 90° FEMAL
4	CL-0008384-02	1	ADAPTER, PIPE TO 37 DEG F
3	SB-0010884-S	2	SEALANT, HYD
2	CL-0006965	120	HOSE, 1" SOFT PVC REINFOR
1	CS-0011614-02	1	FILTER
ITEM	PART NUMBER	QTY	DESCRIPTION

BAG THE FOLLOWING ITEMS:

- 39
- 36
- 37
- 38

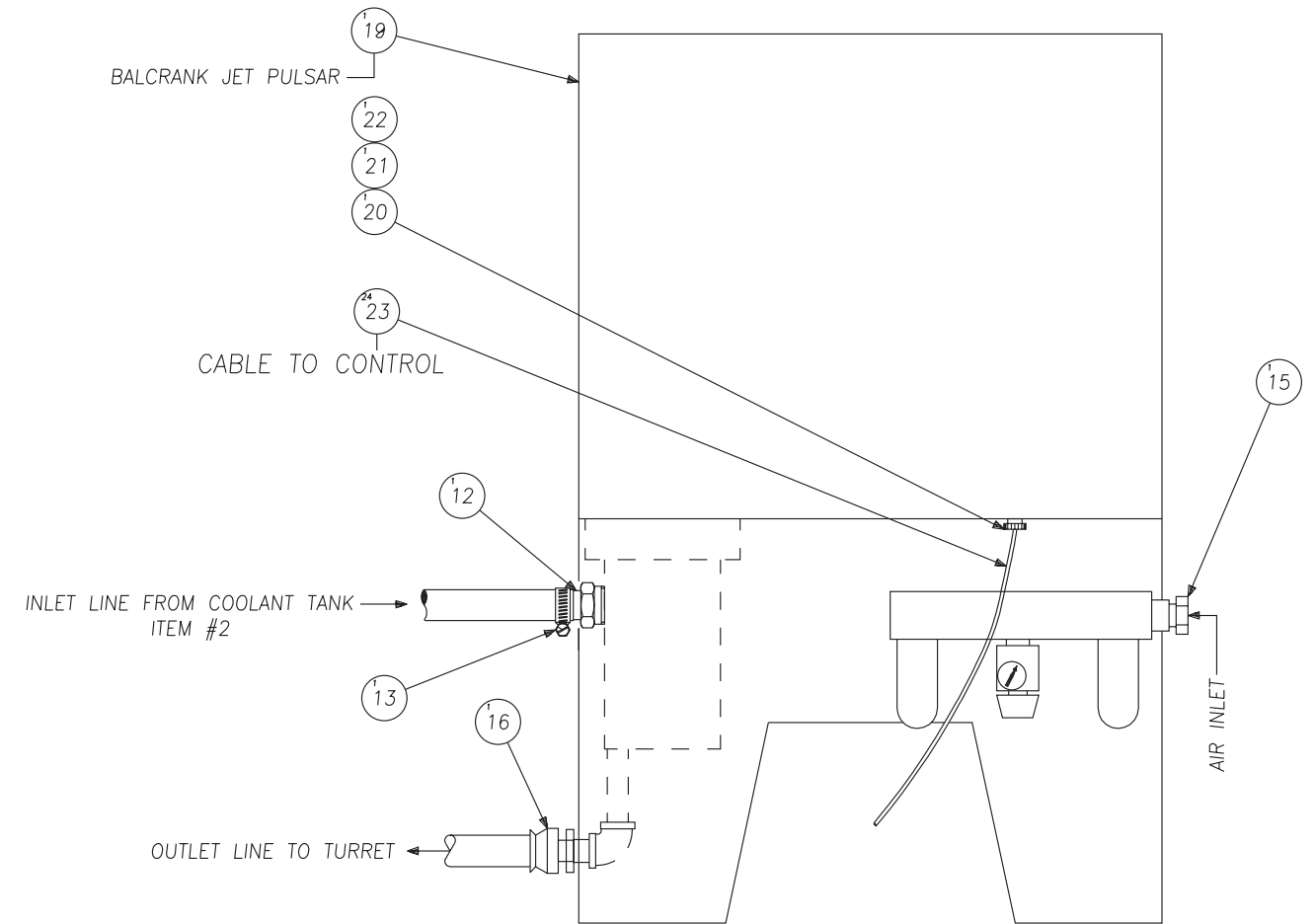
NAME HIGH PRESSURE COOLANT LAYOUT LO-0002762
 (T-42 END WORKINMG TURRET ONLY) SHEET 4 of 4

Coolant Assembly, High Pressure, Machine without End-Working Turret



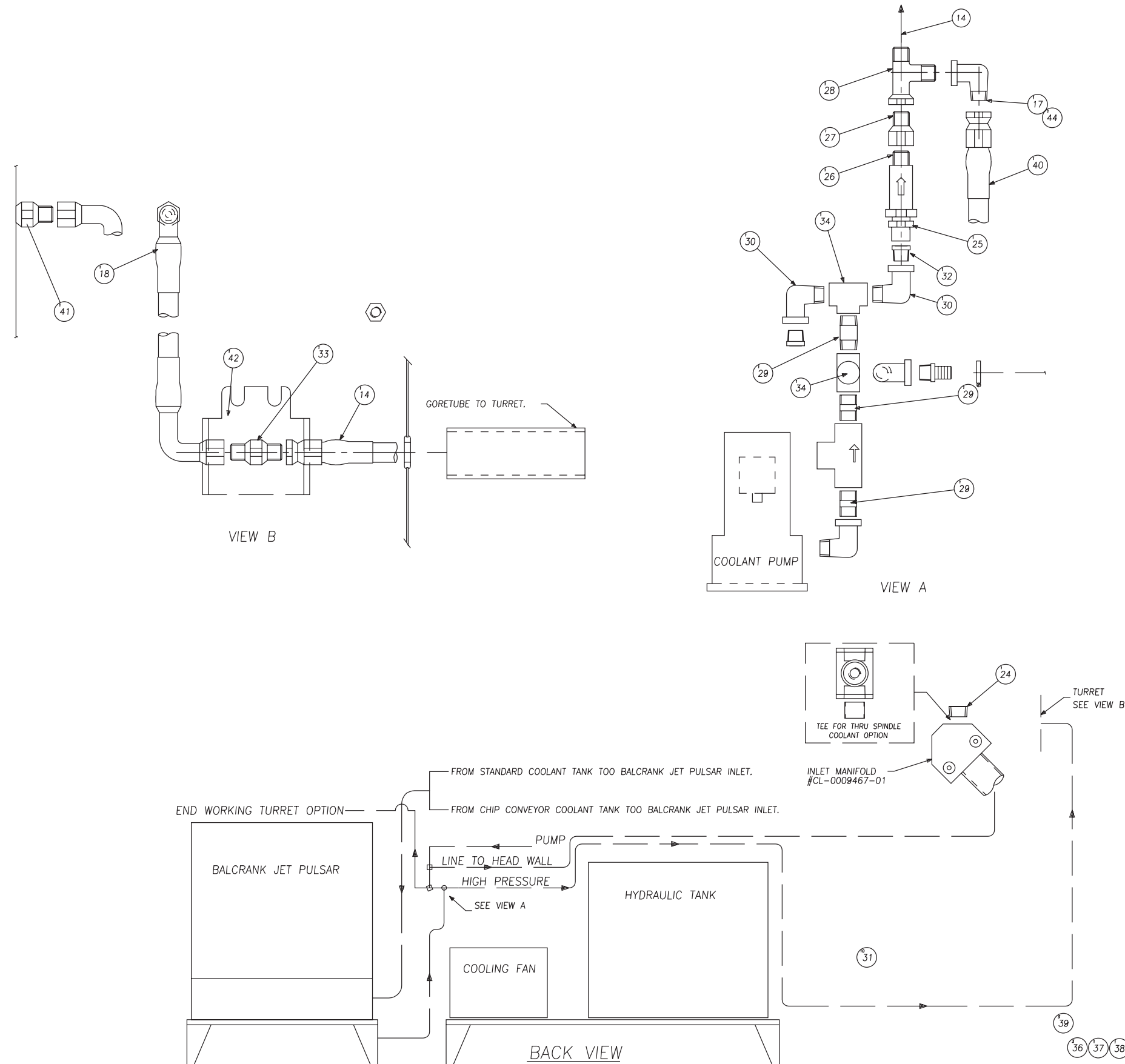
3

BALCRANK JET PULSER PIPING



NAME	PART NUMBER
HIGH PRESSURE COOLANT LAYOUT (SG-42)	LOA0002686
	SHEET 3 of 4

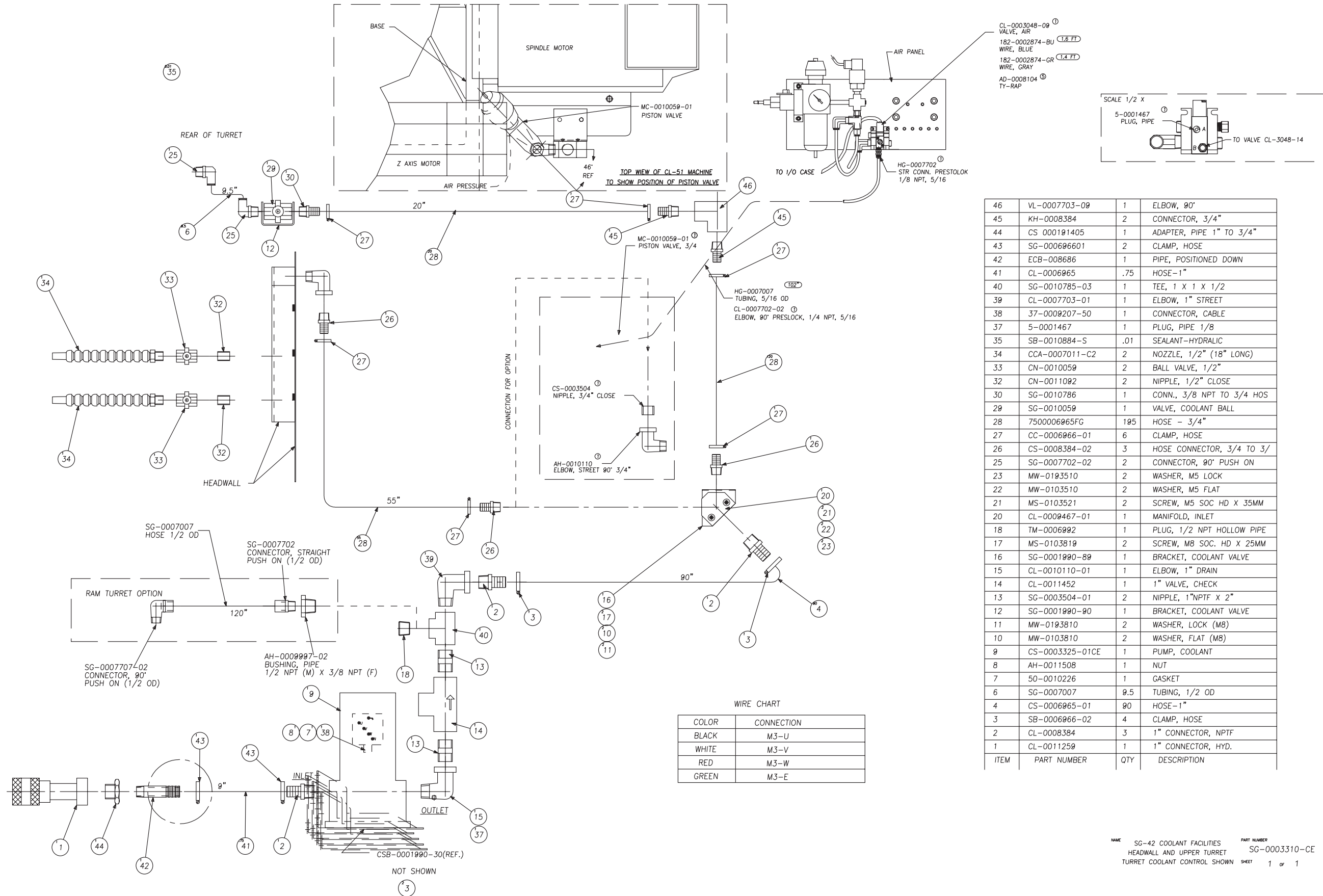
Coolant Assembly, High Pressure, Machine without End-Working Turret



44	CS 000770704	1	NUT, CAP
43	3-0010884-01	.1	ADHESIVE
42	SG-0001990-12	1	BRACKET, HOSE
41	SB 000838401	1	ADAPTER
40	CS-0007007-03	1	HOSE ASSY, HYD 72
39	CS-0010331-04	3	PLUG
38	RF-0011971	1	BAG-MAIL
37	LO-0002224	1	INSTRUCTIONS, PRIMING
36	CS-0009424-03	3	WASHER, TOOL HOLDER
34	SG 000770203	2	TEE, 1X1X1
33	SG 000770303	1	UNION, HEX
32	SG-0009424	1	1-1/2 BUSHING
31	AH-0009910	10	TIE-RAPS (LARGE)
30	CL-0007703-01	2	ELBOW, 1 STREET
29	SG-0003504	3	NIPPLE
28	CS 000838408	1	ADAPTER, TEE
27	CS 000838407	1	ADAPTER, STRAIGHT
26	CS 001145205	1	VALVE, CHECK
25	CS 0010337	1	ADAPTER
24	MD-0003487	1	3/4 NPT PLUG
23	18A- 0003011-04	24	CABLE
22	AH-0011508	1	NUT, LOCK
21	50-0010226	1	GASKET ASSEMBLY, 1/2 INCH
20	18-0009207-50	1	CONNECTOR CABLE
19	CS-0003325-02	1	COOLANT PUMP, HIGH PRESSU
18	SG 000700701	1	HYD. HOSE ASSY.
17	CS-0008384-06	1	ADAPTER, 90 SWIVEL
16	CL-0010331-03	1	PLUG, 37 DEG FLARE
15	CS-0001914-10	1	BUSHING PIPE
14	CS-0007007-05	1	HOSE ASSY. HYD - 231
13	SB-0006966-02	2	CLAMP, HOSE
12	CL-0008384	1	CONNECTOR, 1" NPTF
11	CL-0011259	1	COUPLER, 1" QUICK CONNECT
10	CL-0011259-03	1	COUPLER, QUICK DISCONNECT
9	SG-0009342-CT	1	NUT, CHIP TANK ADAPTER
8	SG-0010116-CT	1	GASKET, CHIP TANK ADAPTER
7	SG-0001914-BA	1	ADAPTER, CHIP TANK
6	SG-0003504-01	3	1" NPT x 2" SCHD 40 NIPPL
5	MC-0007703-03	2	ELBOW, 1" NPT 90° FEMAL
3	SB-0010884-S	1	SEALANT, HYD
2	CL-0006965	120	HOSE, 1" SOFT PVC REINFOR
1	CS-0011614-02	1	FILTER
ITEM	PART NUMBER	QTY	DESCRIPTION

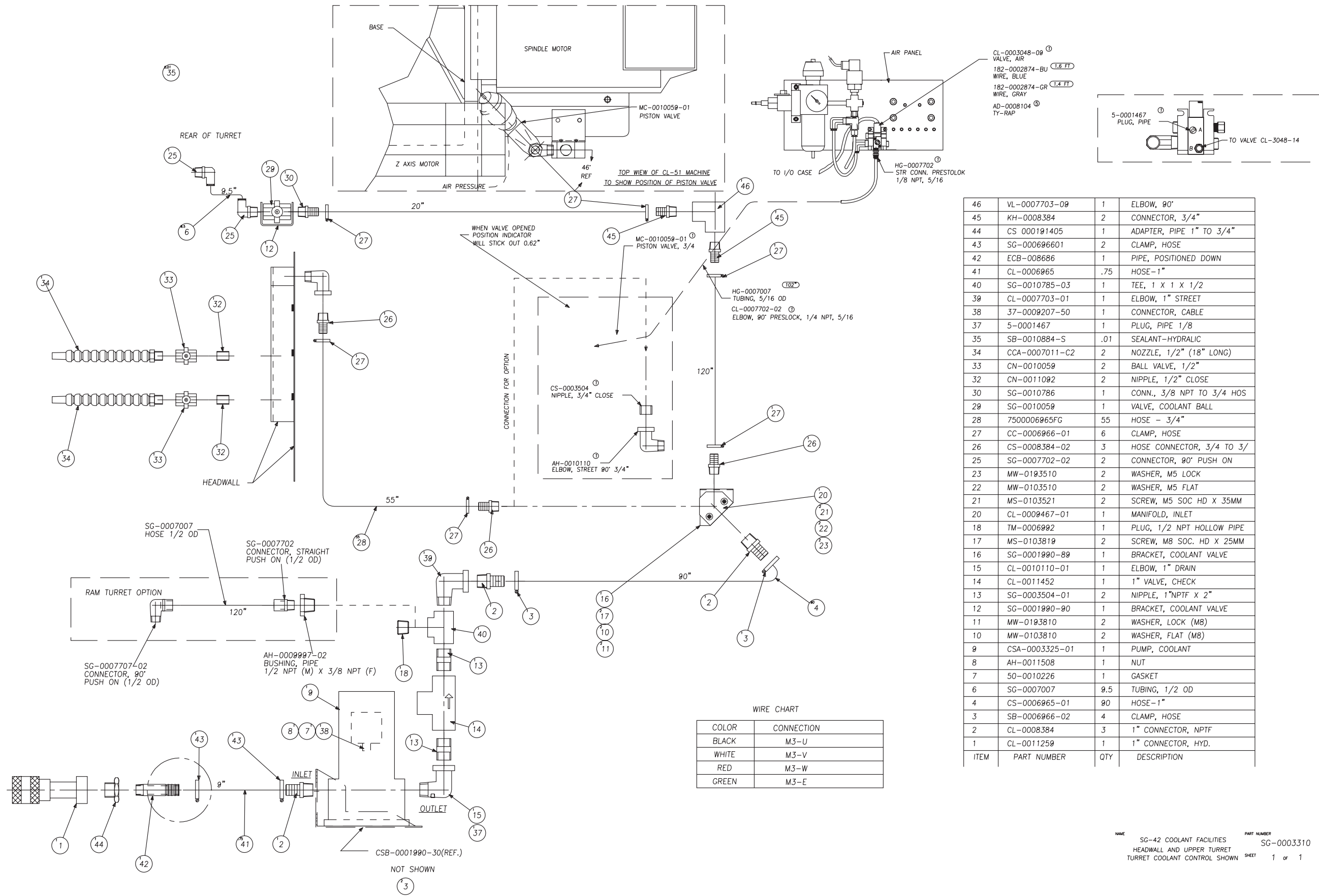
NAME HIGH PRESSURE COOLANT LAYOUT (SG-42) PART NUMBER LOA-0002686 SHEET 4 of 4

Coolant Facilities, CE Mark



46	VL-0007703-09	1	ELBOW, 90°
45	KH-0008384	2	CONNECTOR, 3/4"
44	CS 000191405	1	ADAPTER, PIPE 1" TO 3/4"
43	SG-000696601	2	CLAMP, HOSE
42	ECB-008686	1	PIPE, POSITIONED DOWN
41	CL-0006965	.75	HOSE-1"
40	SG-0010785-03	1	TEE, 1 X 1 X 1/2
39	CL-0007703-01	1	ELBOW, 1" STREET
38	37-0009207-50	1	CONNECTOR, CABLE
37	5-0001467	1	PLUG, PIPE 1/8
35	SB-0010884-S	.01	SEALANT-HYDRALIC
34	CCA-0007011-C2	2	NOZZLE, 1/2" (18" LONG)
33	CN-0010059	2	BALL VALVE, 1/2"
32	CN-0011092	2	NIPPLE, 1/2" CLOSE
30	SG-0010786	1	CONN., 3/8 NPT TO 3/4 HOS
29	SG-0010059	1	VALVE, COOLANT BALL
28	7500006965FG	195	HOSE - 3/4"
27	CC-0006966-01	6	CLAMP, HOSE
26	CS-0008384-02	3	HOSE CONNECTOR, 3/4 TO 3/8
25	SG-0007702-02	2	CONNECTOR, 90° PUSH ON
23	MW-0193510	2	WASHER, M5 LOCK
22	MW-0103510	2	WASHER, M5 FLAT
21	MS-0103521	2	SCREW, M5 SOC HD X 35MM
20	CL-0009467-01	1	MANIFOLD, INLET
18	TM-0006992	1	PLUG, 1/2 NPT HOLLOW PIPE
17	MS-0103819	2	SCREW, M8 SOC. HD X 25MM
16	SG-0001990-89	1	BRACKET, COOLANT VALVE
15	CL-0010110-01	1	ELBOW, 1" DRAIN
14	CL-0011452	1	1" VALVE, CHECK
13	SG-0003504-01	2	NIPPLE, 1"NPTF X 2"
12	SG-0001990-90	1	BRACKET, COOLANT VALVE
11	MW-0193810	2	WASHER, LOCK (M8)
10	MW-0103810	2	WASHER, FLAT (M8)
9	CS-0003325-01CE	1	PUMP, COOLANT
8	AH-0011508	1	NUT
7	50-0010226	1	GASKET
6	SG-0007007	0.5	TUBING, 1/2 OD
4	CS-0006965-01	90	HOSE-1"
3	SB-0006966-02	4	CLAMP, HOSE
2	CL-0008384	3	1" CONNECTOR, NPTF
1	CL-0011259	1	1" CONNECTOR, HYD.
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME SG-42 COOLANT FACILITIES HEADWALL AND UPPER TURRET TURRET COOLANT CONTROL SHOWN SHEET 1 of 1
 PART NUMBER SG-0003310-CE



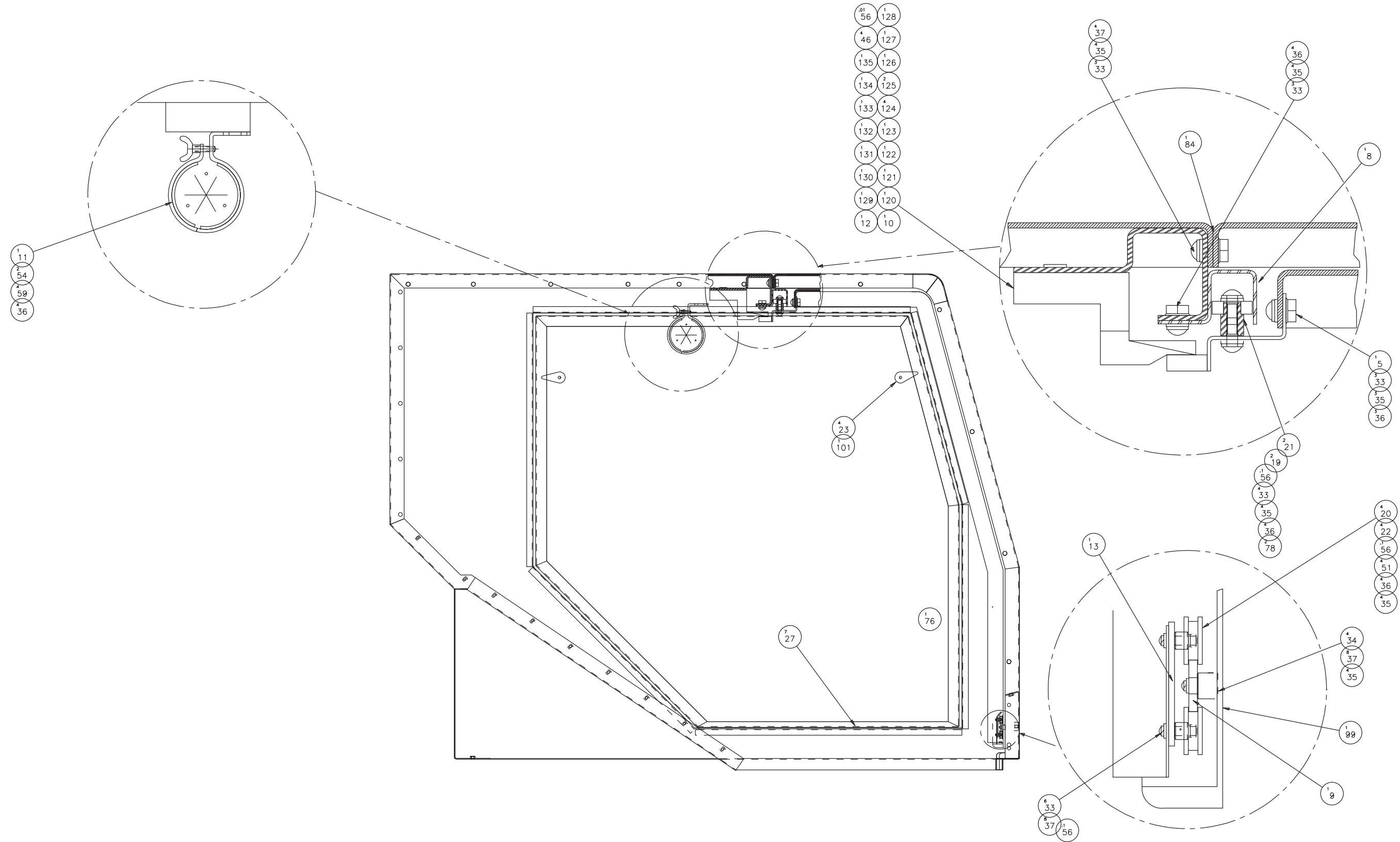
ITEM	PART NUMBER	QTY	DESCRIPTION
46	VL-0007703-09	1	ELBOW, 90°
45	KH-0008384	2	CONNECTOR, 3/4"
44	CS 000191405	1	ADAPTER, PIPE 1" TO 3/4"
43	SG-000696601	2	CLAMP, HOSE
42	ECB-008686	1	PIPE, POSITIONED DOWN
41	CL-0006965	.75	HOSE-1"
40	SG-0010785-03	1	TEE, 1 X 1 X 1/2
39	CL-0007703-01	1	ELBOW, 1" STREET
38	37-0009207-50	1	CONNECTOR, CABLE
37	5-0001467	1	PLUG, PIPE 1/8
35	SB-0010884-S	.01	SEALANT-HYDRALIC
34	CCA-0007011-C2	2	NOZZLE, 1/2" (18" LONG)
33	CN-0010059	2	BALL VALVE, 1/2"
32	CN-0011092	2	NIPPLE, 1/2" CLOSE
30	SG-0010786	1	CONN., 3/8 NPT TO 3/4 HOS
29	SG-0010059	1	VALVE, COOLANT BALL
28	7500006965FG	55	HOSE - 3/4"
27	CC-0006966-01	6	CLAMP, HOSE
26	CS-0008384-02	3	HOSE CONNECTOR, 3/4 TO 3/8
25	SG-0007702-02	2	CONNECTOR, 90° PUSH ON
23	MW-0193510	2	WASHER, M5 LOCK
22	MW-0103510	2	WASHER, M5 FLAT
21	MS-0103521	2	SCREW, M5 SOC HD X 35MM
20	CL-0009467-01	1	MANIFOLD, INLET
18	TM-0006992	1	PLUG, 1/2 NPT HOLLOW PIPE
17	MS-0103819	2	SCREW, M8 SOC. HD X 25MM
16	SG-0001990-89	1	BRACKET, COOLANT VALVE
15	CL-0010110-01	1	ELBOW, 1" DRAIN
14	CL-0011452	1	1" VALVE, CHECK
13	SG-0003504-01	2	NIPPLE, 1"NPTF X 2"
12	SG-0001990-90	1	BRACKET, COOLANT VALVE
11	MW-0193810	2	WASHER, LOCK (M8)
10	MW-0103810	2	WASHER, FLAT (M8)
9	CSA-0003325-01	1	PUMP, COOLANT
8	AH-0011508	1	NUT
7	50-0010226	1	GASKET
6	SG-0007007	9.5	TUBING, 1/2 OD
4	CS-0006965-01	90	HOSE-1"
3	SB-0006966-02	4	CLAMP, HOSE
2	CL-0008384	3	1" CONNECTOR, NPTF
1	CL-0011259	1	1" CONNECTOR, HYD.

WIRE CHART

COLOR	CONNECTION
BLACK	M3-U
WHITE	M3-V
RED	M3-W
GREEN	M3-E

NAME SG-42 COOLANT FACILITIES HEADWALL AND UPPER TURRET TURRET COOLANT CONTROL SHOWN SHEET 1 of 1
 PART NUMBER SG-0003310

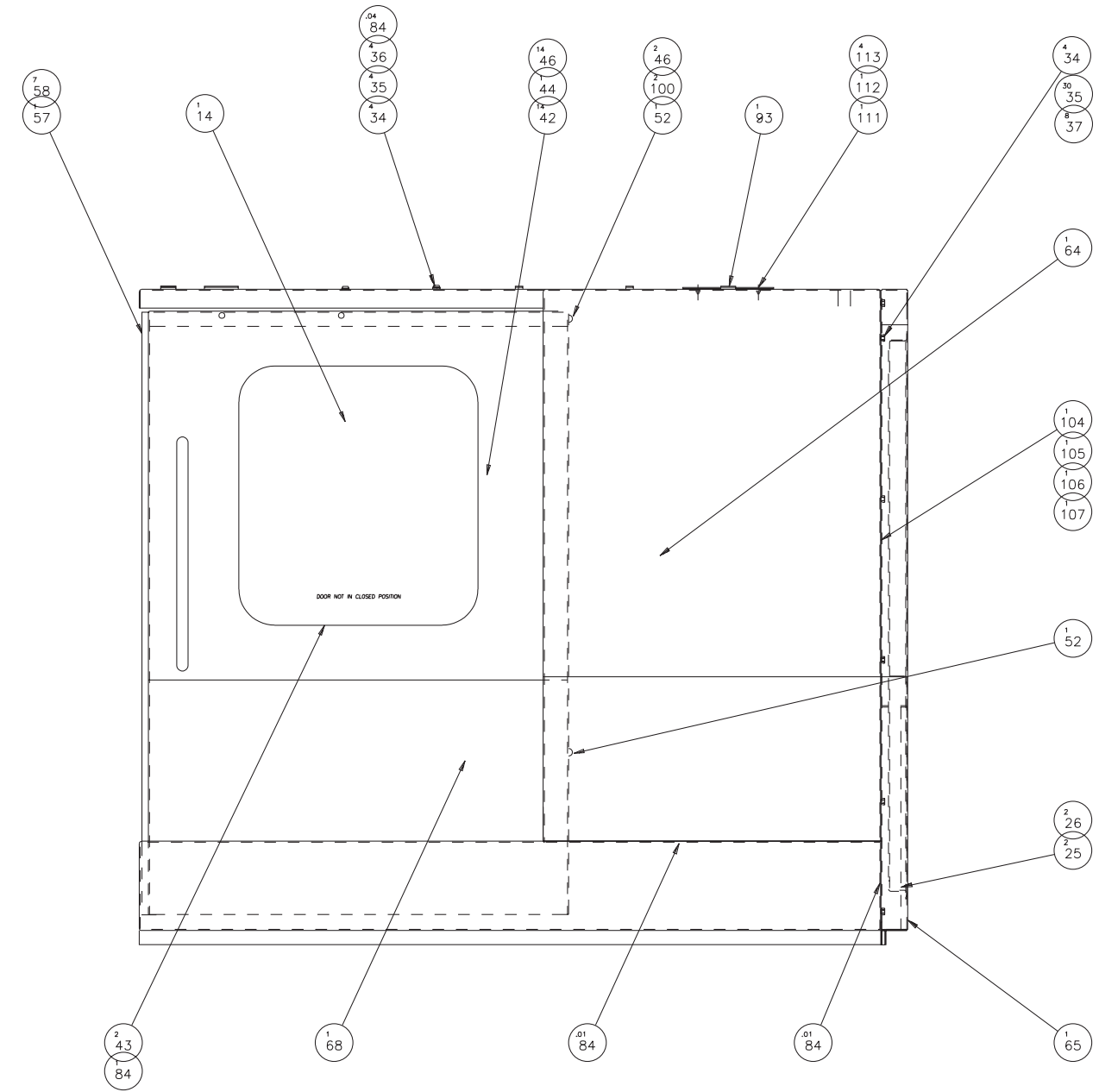
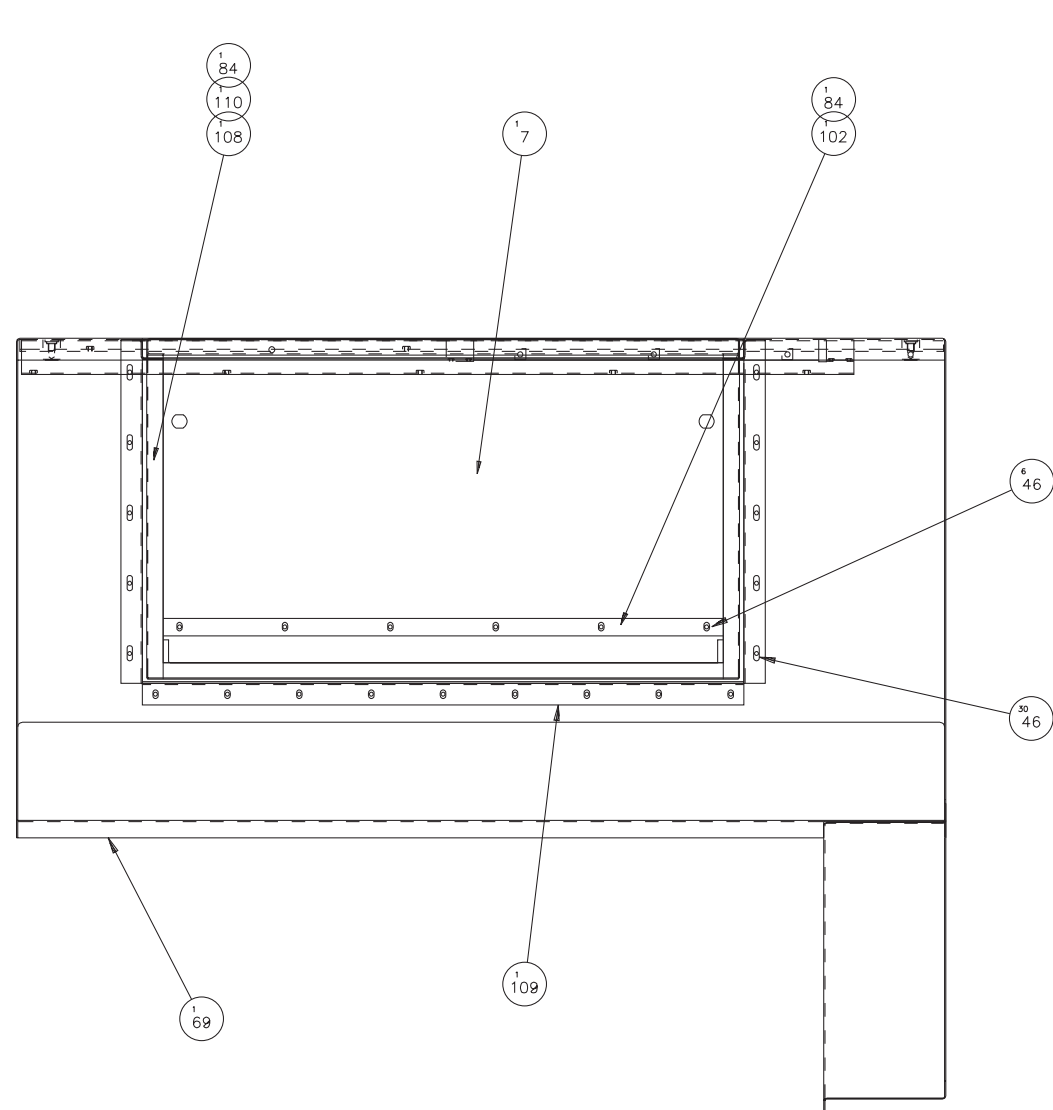
Coolant Guard Assembly, CE Mark



NAME
COOLANT GUARD ASSEMBLY

PART NUMBER
SG 0010453EMC

SHEET
1 OF 3



NAME	PART NUMBER
COOLANT GUARD ASSEMBLY	SG 0010453EMC
FRONT VIEW	SHEET 2 OF 3

Coolant Guard Assembly, CE Mark

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
5	CS 00022108	1.000	BRACKET, ROLLER MOUNTING
7	SG 001011529	1.000	COVER, ACCESS
8	CS 000199058	1.000	UPPER TRACK, COOLANT GUARD DO
9	CSA0006324	1.000	TRACK, DOOR
10	HG 000365003	1.000	SWITCH, LEVER ARM
11	CL 000891501	1.000	WORKLIGHT
12	CSB001022401	1.000	SWITCH, DOOR
13	CS 0012103	1.000	PLATE, ROLLER MOUNTING
14	CSA001044905	1.000	WINDOW
19	AH 0011281	2.000	BEARING
20	CSA0011404	4.000	DOOR ROLLER ASSEMBLY
21	CS 0010568	2.000	BUSHING, DOOR ROLLER UPPER
22	CS 001056801	4.000	BUSHING, DOOR ROLLER LOWER
23	HG 001173801	4.000	LATCH, DOOR, VISE ACTION
25	SB 0011965	2.000	DOOR ALIGNMENT PIN
26	R 0000331	2.000	NUT
27	CN 001119801	7.000	SEAL, DOOR
33	MS 0303615	19.000	SCREW, BT. HD. M6X1.0X 10MM
34	MS 0303617	12.000	SCREW, BT. HD. M6X1.0 X 16MM
35	MW 0103610	57.000	WASHER, FLAT M6 STEEL
36	MW 0183610	23.000	M6 REG. LOCKWASHER
37	MW 0263610	28.000	WASHER, STAR EXT. M6X1.0 STEE
42	CS 001118206	14.000	BUSHING, WINDOW
43	CS 001011633	2.000	GASKET, WINDOW
44	CS 000399047	1.000	FRAME, WINDOW
46	MN 0283610	56.000	NUT, M6X1.0, SER HEX FLNG
51	MS 0303619	4.000	SCREW, BT. HD. M6X1.0 X 25MM
52	HG 0010541	2.000	BUMPER, RUBBER
54	CS 000891502	2.000	BRACKET (CS)
56	NC 0010884	0.310	LOCTITE 242
57	CS 000399091	1.000	LABRINYTH, DOOR
58	MS 0303514	7.000	SCREW, BT HD M5 X .8 X 12
59	MS 0153615	4.000	SCREW, HEX HD. CAP M6X1.0X10M
64	SG 0000221EMGE	1.000	GUARD, FRONT WELD ASSEM
65	SG 0000221EM26	1.000	GUARD, RIGHT END ASSY
68	CSB000022137	1.000	FRONT DOOR GUARD ASSEMBLY
69	SG 0000221EMGA	1.000	REAR GUARD ASSEMBLY
76	SG 0003780LW	1.000	DOOR, RGHT ACCESS/LESS WINDO
78	6 0009181	2.000	WASHER, LOCK
84	GE 0010884	4.060	SEALER
93	DP 000960401	1.000	DOT PLUG
99	SG 0000221EMFP	1.000	PANEL, FRONT
100	SG 000032804	2.000	EXTENSION, STOP
101	HG 001173802	1.000	PULL, DOOR--USE VL-11738-1
102	SG 0001990	1.000	DEFLECTOR, DOOR(REAR ACCESS)
104	SGA0010116TR	1.000	GASKET, TOP RIGHT FRONT
105	SG 0010116MR	1.000	GASKET, MIDDLE RIGHT FRONT
106	SG 0010116LR	1.000	GASKET, LOWER RIGHT FRONT
107	SG 0010116BR	1.000	GASKET, BACK RIGHT
108	SG 000199052	1.000	RETAINER, BACK
109	SGA001011693	1.000	GASKET, REAR DOOR (BOTTOM)
110	SG 001011694	1.000	GASKET, REAR DOOR (SIDES)
111	CS 001011585	1.000	COVER, FILTERMIST
112	CS 001011625	1.000	GASKET, FILTERMIST
113	MN 0113310	4.000	M3 NUT, HEX
114	MS 0303616SS	40.000	SCREW, BHD M6X1.0 X 12MM SST
115	MW 0183610SS	40.000	LOCKWASHER, M6 STAINLESS STE
116	MW 0103610SS	40.000	WASHER, FLAT M6 STAINLESS ST
117	NC 001088402	0.040	LOCTITE #222

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
118	MW 0103310	2.000	WASHER, FLAT REGULAR M3X.5
119	MS 0303315	2.000	SCREW, BUTTON HD. M3X.5X10MM
120	SG 0004158 T	1.000	PLATE, SWITCH LOCATING
121	SG 0004158SMB	1.000	BRACKET, SWITCH MOUNTING
122	SG 0004158SB	1.000	BRACKET, SWITCH TRIP
123	SG 0004158SBC	1.000	COVER, SWITCH BRACKET
124	MS 0303617SA	4.000	SCREW ASSEMBLY, M6X1X16MM LO
125	MS 0303616SA	2.000	SCREW ASSEMBLY, 6MX1X12MM LO
126	KL 0009623	1.000	CLAMP
127	SB 0010785	1.000	BODY, 90 DEG CONN
128	DB 00092079E	1.000	GROMMET
129	50 0010226	1.000	GASKET ASSEMBLY 1/2 INCH
130	AH 0011508	1.000	NUT, LOCK
131	DB 00092079B	1.000	NUT CONNECTOR COMPRESS
132	DB 0009207 W	1.000	WASHER CONNECTOR
133	LC 0032316	1.000	SCREW, THR'D CUT-8-32 X 1/2
134	CS 001033103	1.000	PLUG, SNAP IN
135	LO 0004302	1.000	DOOR INTERLOCK SWITCH MTG LO
136	SG 0001990KMAD	1.000	BRACKET, AUTODOOR KEY MOUNT

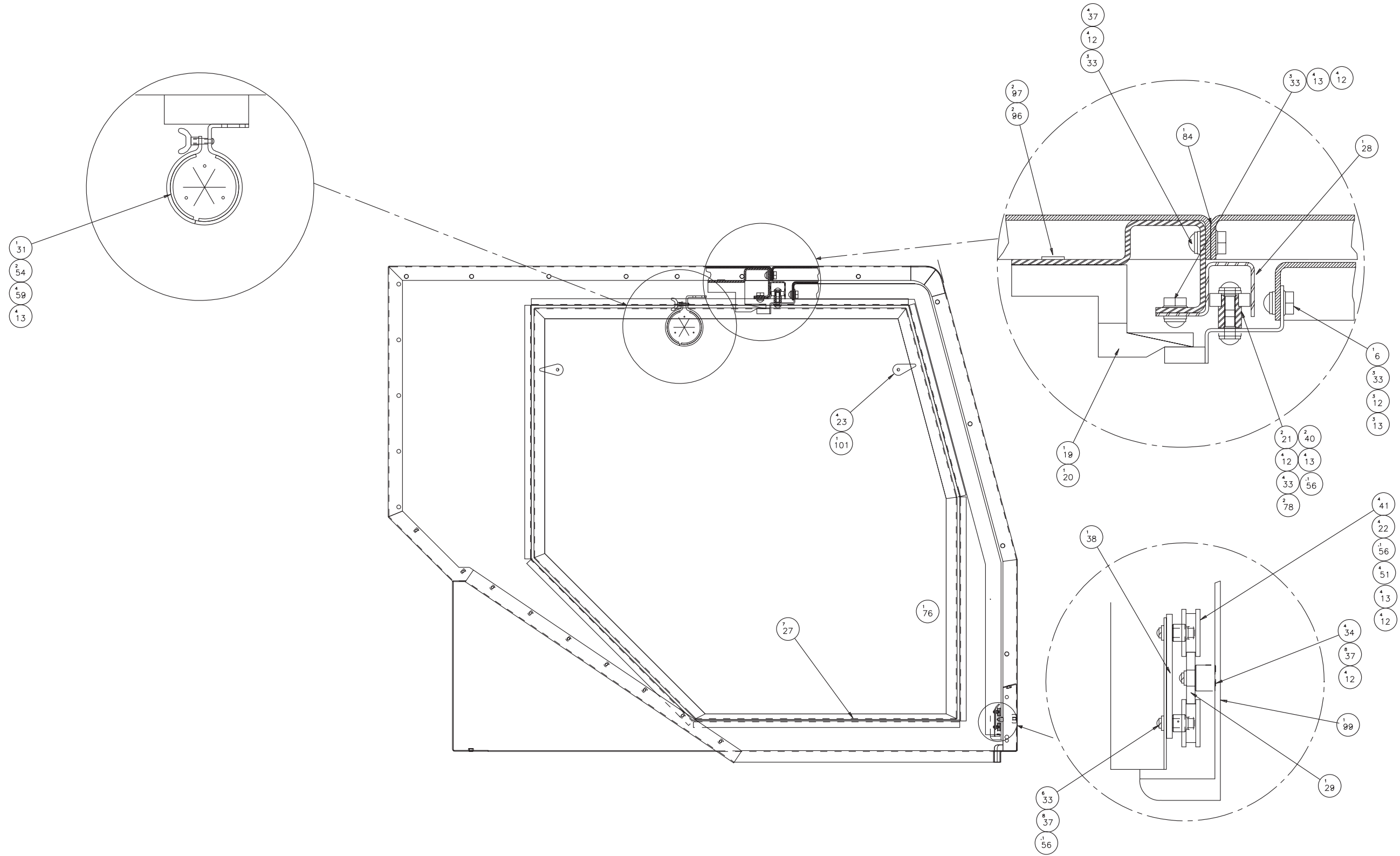


NAME
COOLANT GUARD ASSEMBLY

PART NUMBER
SG 0010453EMC

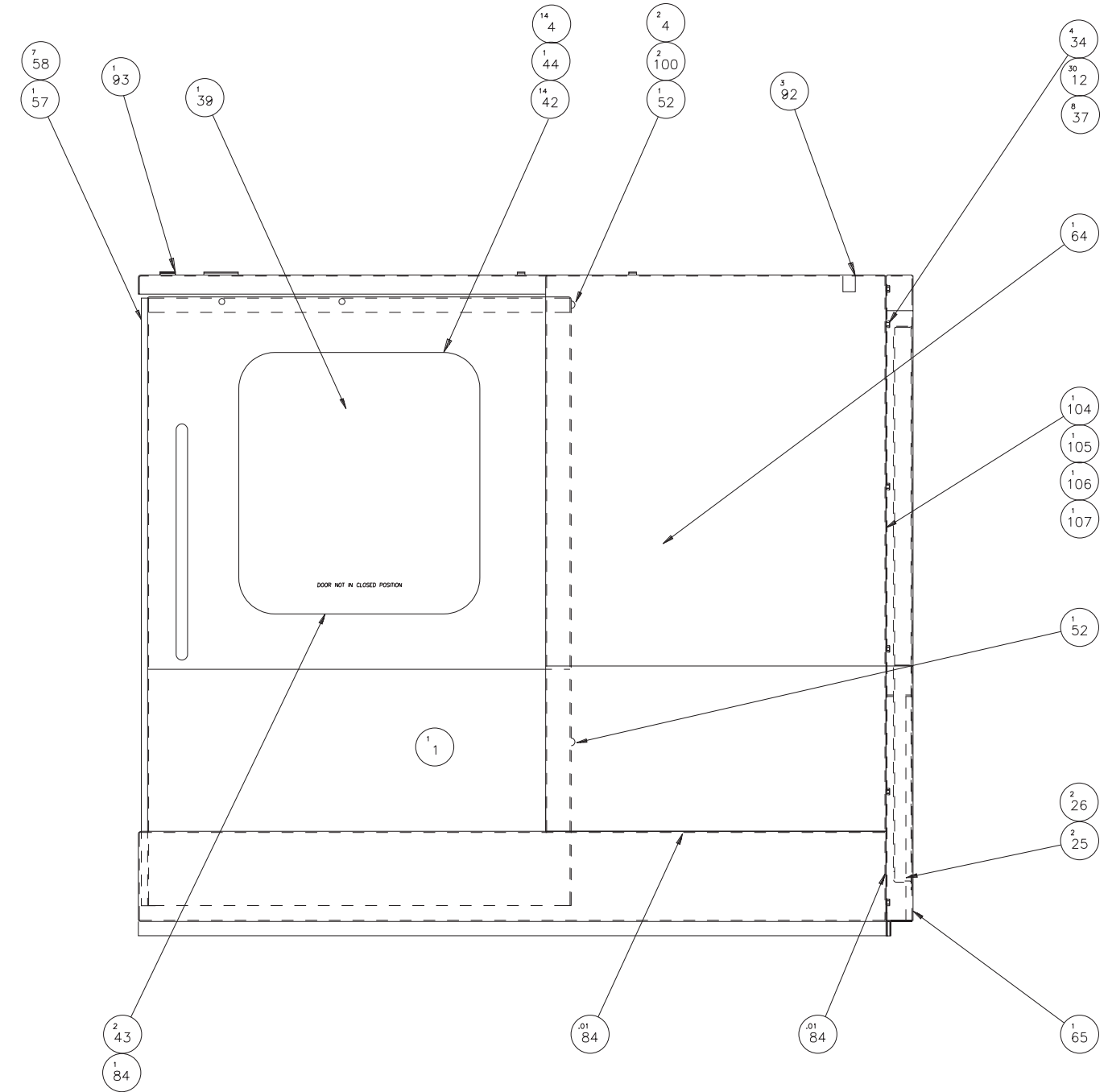
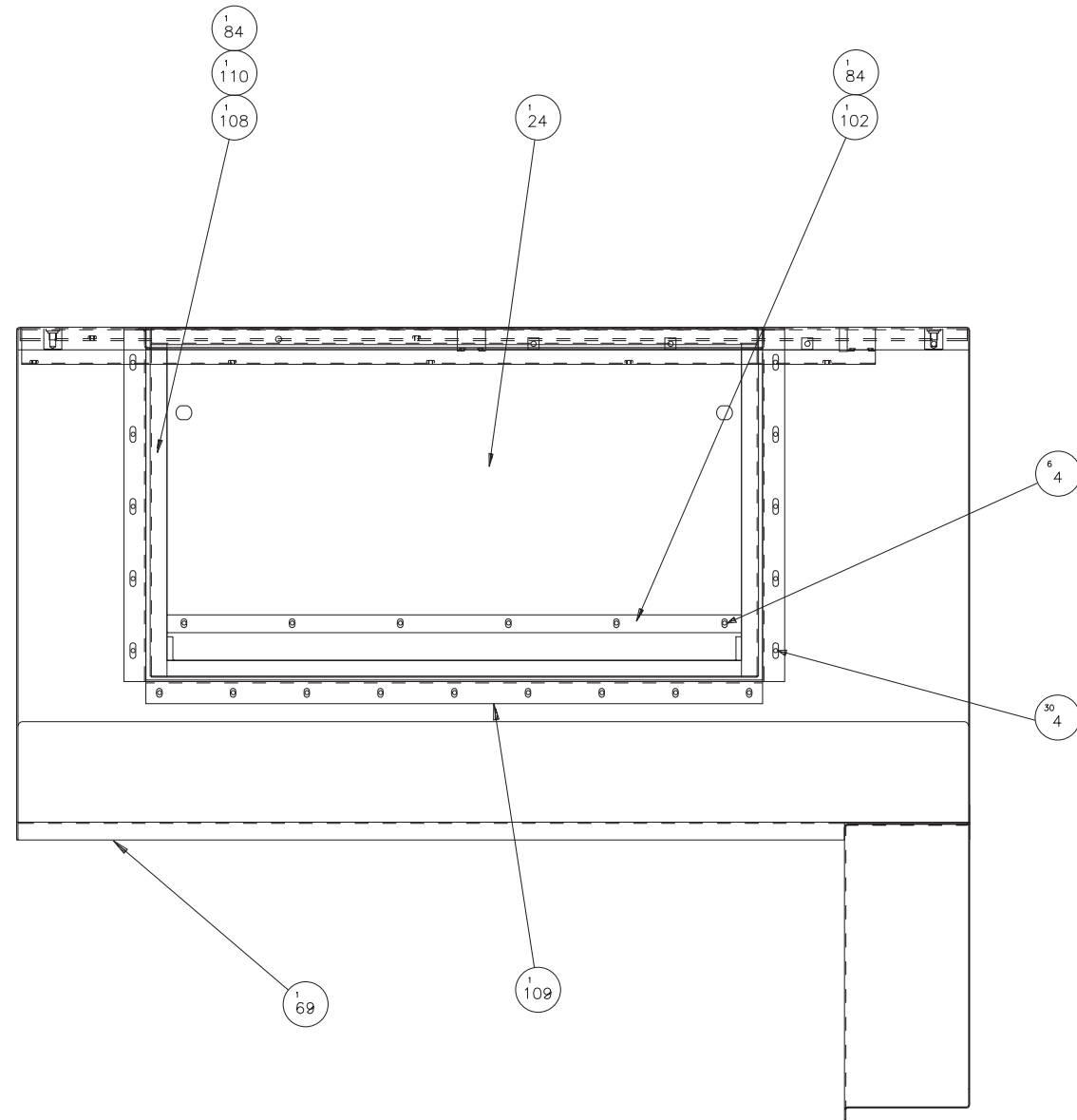
SHEET
3 OF 3

Coolant Guard Assembly, Machine with Gantry



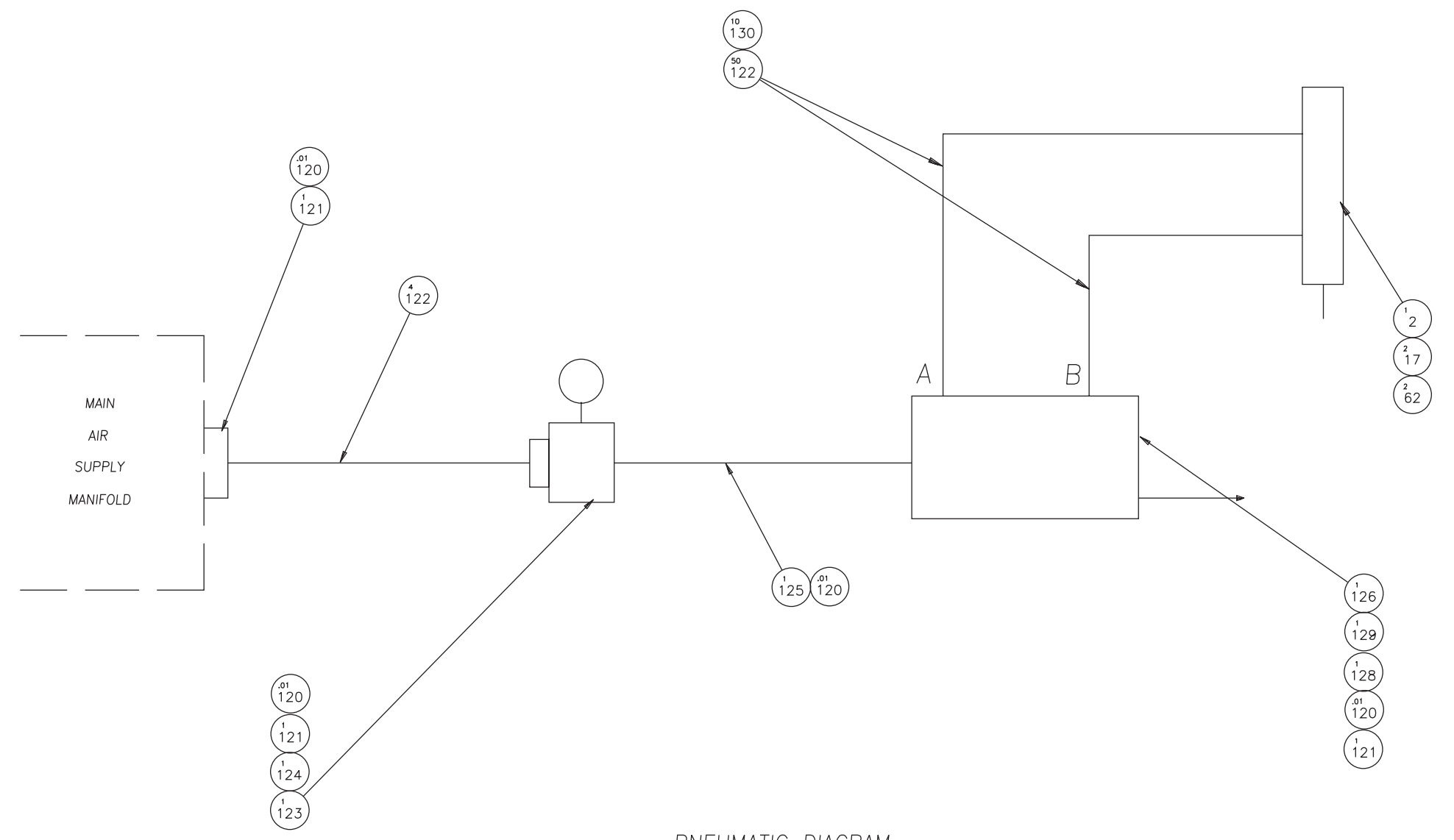
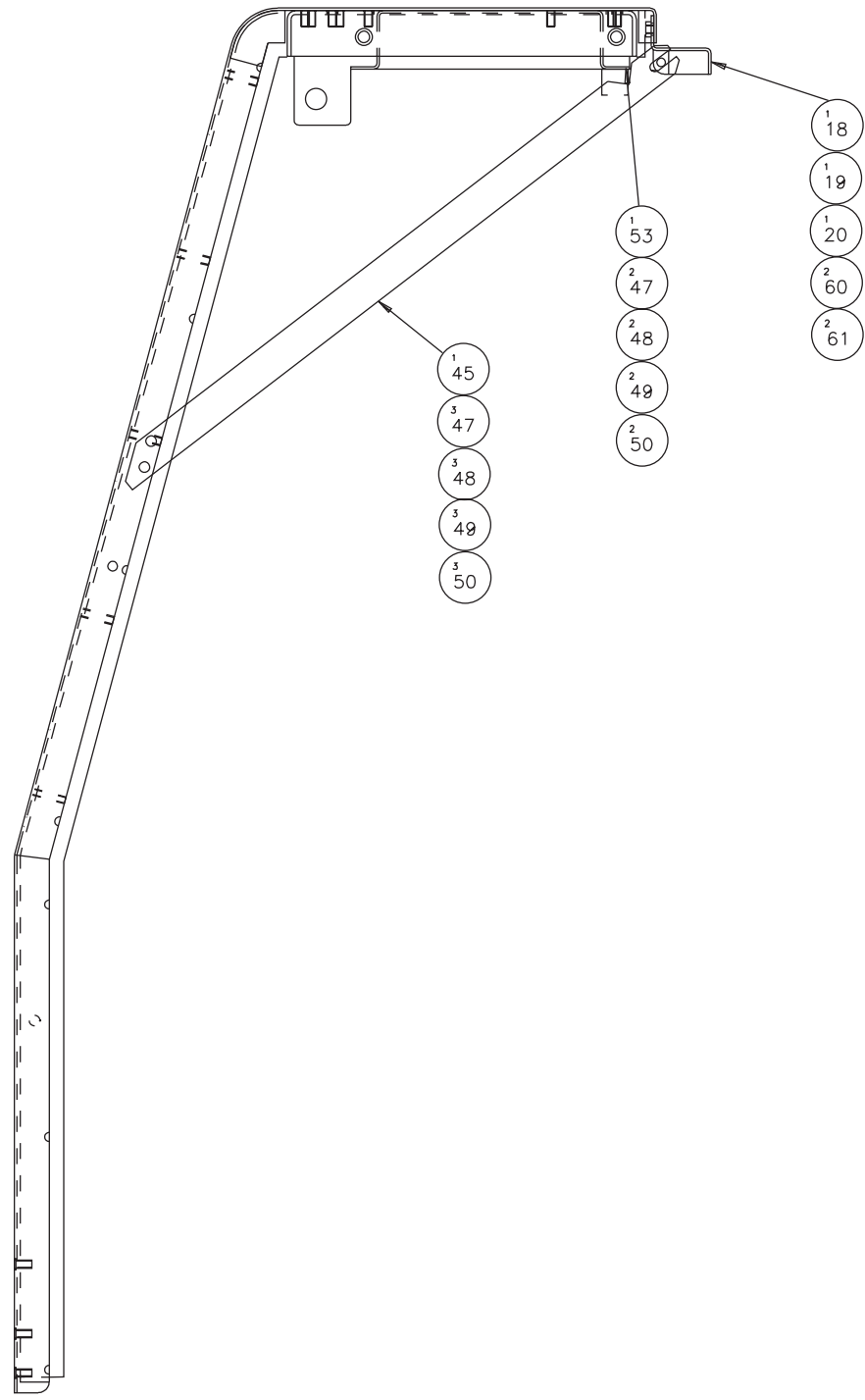
NAME	PART NUMBER
COOLANT GUARD ASSEMBLY	GA 0010453SG
GANTRY	SHEET 1 OF 5

Coolant Guard Assembly, Machine with Gantry



NAME
COOLANT GUARD ASSEMBLY
FRONT VIEW

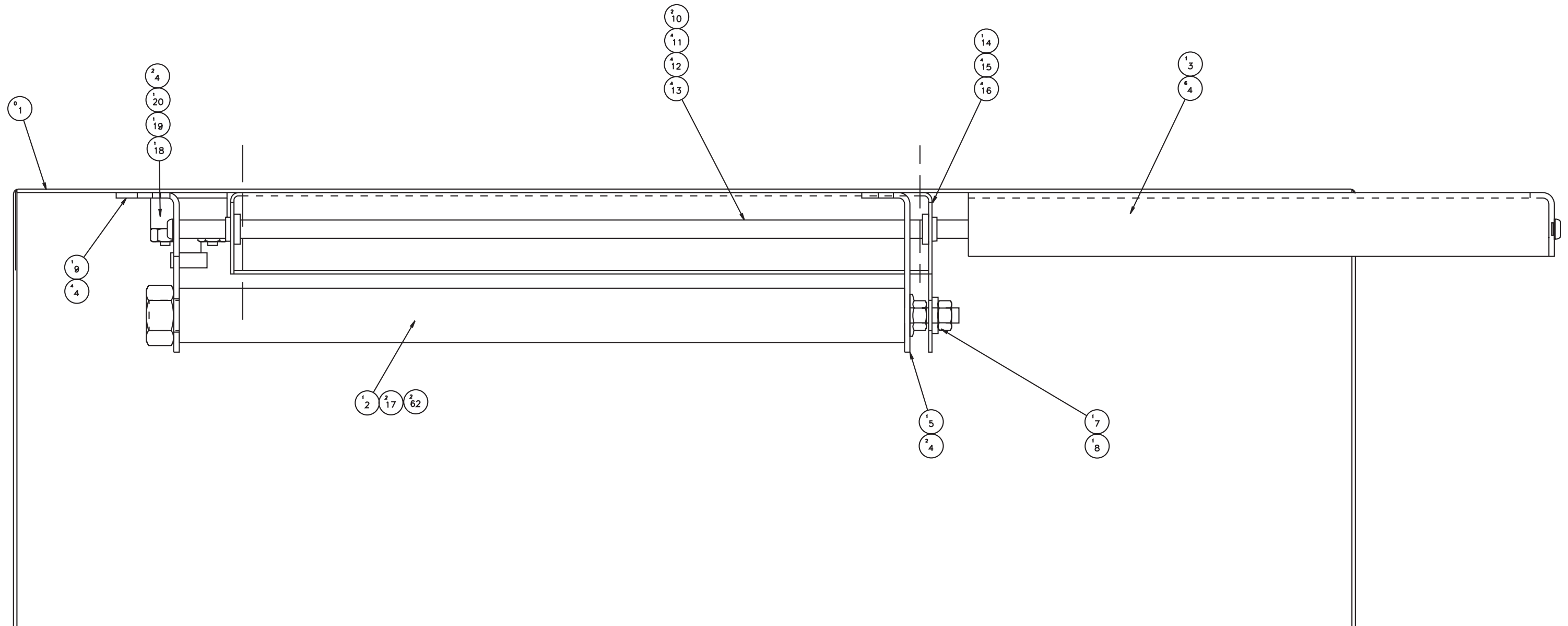
PART NUMBER
GA 0010453SG
SHEET 2 OF 3



PNEUMATIC DIAGRAM

NAME	PART NUMBER
ASSEMBLY, CS TRAP DOOR	GA 0010453SG
SG GANTRY	SHEET 3 OF 5

Coolant Guard Assembly, Machine with Gantry



NAME
ASSEMBLY
CS TRAP DOOR

PART NUMBER
GA 0010453SG
SHEET 4 OF 5

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	GA 000378002	1.000	FRONT DOOR GUARD WELD ASSY
2	GA 000291701	1.000	CYLINDER, PNEUMATIC
3	GA 000199027	1.000	BRACKET, REAR MANIPULATOR
4	MN 0283610	66.000	NUT, HEX
5	GA 000199028	1.000	BRACKET, FRONT CYLINDER
6	GA 000199032	1.000	BRACKET, ROLLER MOUNTING
7	47A0001556	1.000	NUTS, SEMI-FINISHED HEX
8	5 0001893	1.000	WASHER
9	GA 000199029	1.000	BRACKET, FRNT MANIPULATOR
10	GA 000486503	2.000	ROD, MANIPULATOR
11	MS 0303616	4.000	SCREW, BT. HD. M6X1.0 X 12MM
12	MW 0103610	57.000	WASHER, FLAT M6 X 1
13	MW 0183610	23.000	WASHER, FLAT DIN-7980
14	GA 001011503	1.000	COVER, FRNT DOOR MANIPULATOR
15	GA 000486502	4.000	BUSHING, MANIPULATOR DOOR
16	50 000823102	4.000	RING, RETAINING
17	CS 001145201	2.000	FLOW-CONTROL
18	CL 0000334	2.000	NUT, BUSHING
19	CSA001022401	1.000	USE CSB001022401
19	CSB001022401	2.000	SWITCH, DOOR
20	HG 000365003	3.000	LEVER ARM, SWITCH
21	CS 0010568	2.000	BUSHING, DOOR ROLLER UPPER
22	CS 001056801	4.000	BUSHING, DOOR ROLLER LOWER
23	VL 0011738	4.000	LATCH, RIGHT ACCESS DOOR
24	SG 001011529	1.000	COVER, ACCESS
25	SB 0011965	2.000	DOOR ALIGNMENT PIN
26	R 0000331	2.000	NUT
27	CN 00119801	7.000	SEAL, DOOR
28	CS 000199058	1.000	UPPER TRACK, COOLANT GUARD
29	CSA0006324	1.000	TRACK, DOOR
31	CL 000891501	1.000	WORKLIGHT
33	MS 0303615	19.000	SCREW, BT HD M6 X 1 X 10
34	MS 0303617	8.000	SCREW, BT HD M6 X 1 X 16
37	MW 0263610	28.000	WASHER, STAR
38	CS 0012103	1.000	PLATE, ROLLER MOUNTING
39	CSA001044905	1.000	WINDOW
40	AH 0011281	2.000	BEARING
41	CSA0011404	4.000	DOOR ROLLER ASSEMBLY
42	CS 001118206	14.000	BUSHING, WINDOW
43	CS 001011633	2.000	GASKET, WINDOW
44	CS 000399047	1.000	FRAME, WINDOW
45	GA 000199026	1.000	BRACE, DOOR
47	MN 0113510	5.000	NUT, HEX
48	MS 0303517	5.000	SCREW, BUTTON HD. M5X8X16MM
49	MW 0103510	5.000	WASHER, FLAT M5 X .8 STEEL
50	MW 0183510	5.000	WASHER, LOCK REG. M5 X .8 SC
51	MS 0303619	4.000	SCREW, BT HD M6 X 1 X 25
52	UE 0010541	2.000	BUMPER, RUBBER
53	GA 000199025	1.000	ACTUATOR, CS42 TRAP DOOR SW.
54	CS 000891502	2.000	BRACKET
56	NC 0010884	.300	LOCTITE ADHESIVE
57	CS 000399091	1.000	LABRINYTH, DOOR
58	MS 0303514	7.000	SCREW, BT HD M5 X .8 X 12
59	MS 0153615	4.000	SCREW, HX HD CAP-M6 X 1.0 X 1
60	MS 0103518	2.000	SCREW, SDC. HD. CAP. M5X.8X20
61	MN 0283510	2.000	NUT, M5X0.8, SER HEX FLNG
62	HG 0007702	2.000	CONNECTOR, MALE 1/8 STRAIGHT
64	SG 0000221GE	1.000	GUARD, FRONT WELD ASSEM
65	SG 000022126	1.000	GUARD, RIGHT END ASSY
69	SGB0000221GA	1.000	REAR GUARD ASSEMBLY
76	SG 0003780LW	1.000	DOOR, RIGHT ACCESS W/D WINDOW
78	6 0009181	2.000	STAR WASHER, LOCK
84	GE 0010884	4.020	GASKET ADHESIVE 847
92	DP 0009604 B	3.000	PLUG, DOT
93	DP 000960401	1.000	DOT PLUG
96	MS 0103517	2.000	SCREW, SDC HD CAP M5 X .8 X 16

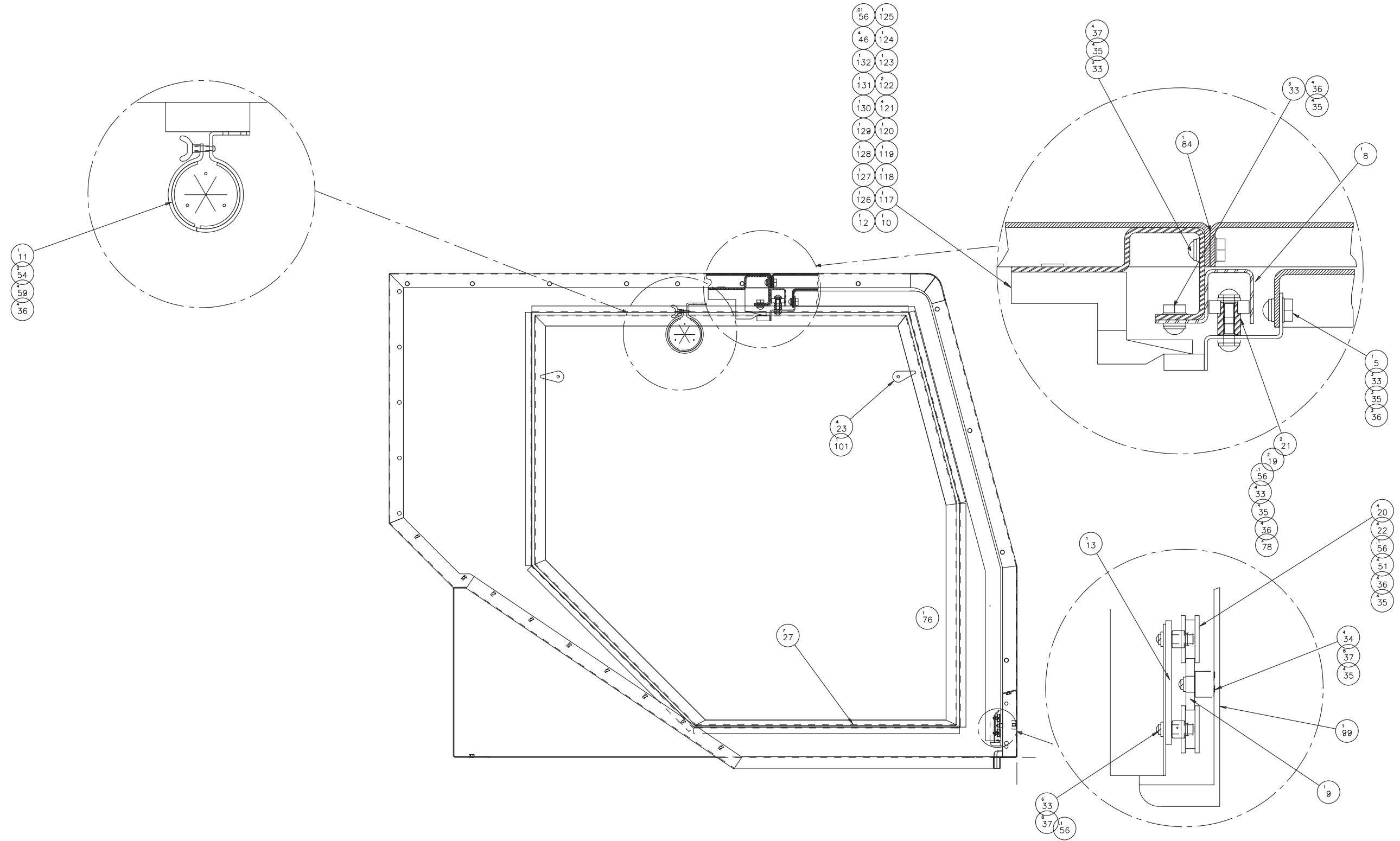
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
97	CM 0002840	2.000	WASHER, LOCK
99	SG 0000221FP	1.000	PANEL, FRONT
100	SG 000032802	2.000	EXTENSION, STOP
101	VL 001173801	1.000	PULL, DOOR
102	SG 0001990	1.000	DEFLECTOR, DOOR (REAR ACCESS)
104	SGA0010116TR	1.000	GASKET, TOP RIGHT FRONT
105	SG 0010116MR	1.000	GASKET, MIDDLE RIGHT FRONT
106	SG 0010116LR	1.000	GASKET, LOWER RIGHT FRONT
107	SG 0010116BR	1.000	GASKET, BACK RIGHT
108	SG 000199052	1.000	RETAINER, BACK
109	SGA001011693	1.000	GASKET, REAR DOOR (BOTTOM)
110	SG 001011694	1.000	GASKET, REAR DOOR (SIDES)
120	SB 0010884 S	.040	SEALANT - HYDRAULIC
121	HG 000770203	2.000	TEE, UNION - 1/4 TUBE
121	GA 000770203	1.000	TEE, UNION - 1/4 TUBE
122	HG 0007007	54.000	TUBING - 5/16 O.D.
123	BF 0011537	1.000	GAGE AIR, 1/8, 0-60 PSI
124	AH 0010779	1.000	REGULATOR
125	NT 0003504 A	1.000	NIPPLE, PIPE
126	CSA000304805	1.000	VALVE ASSEMBLY, 2ND OP SPIND
128	MS 0103519	1.000	SCREW, SDC. HD. CAP. M5X.8X25
129	RF 001133501	1.000	MUFFLER
130	RH 001162201	10.000	SLEEVE, PLASTIC COIL

NAME
COOLANT GUARD ASSEMBLY

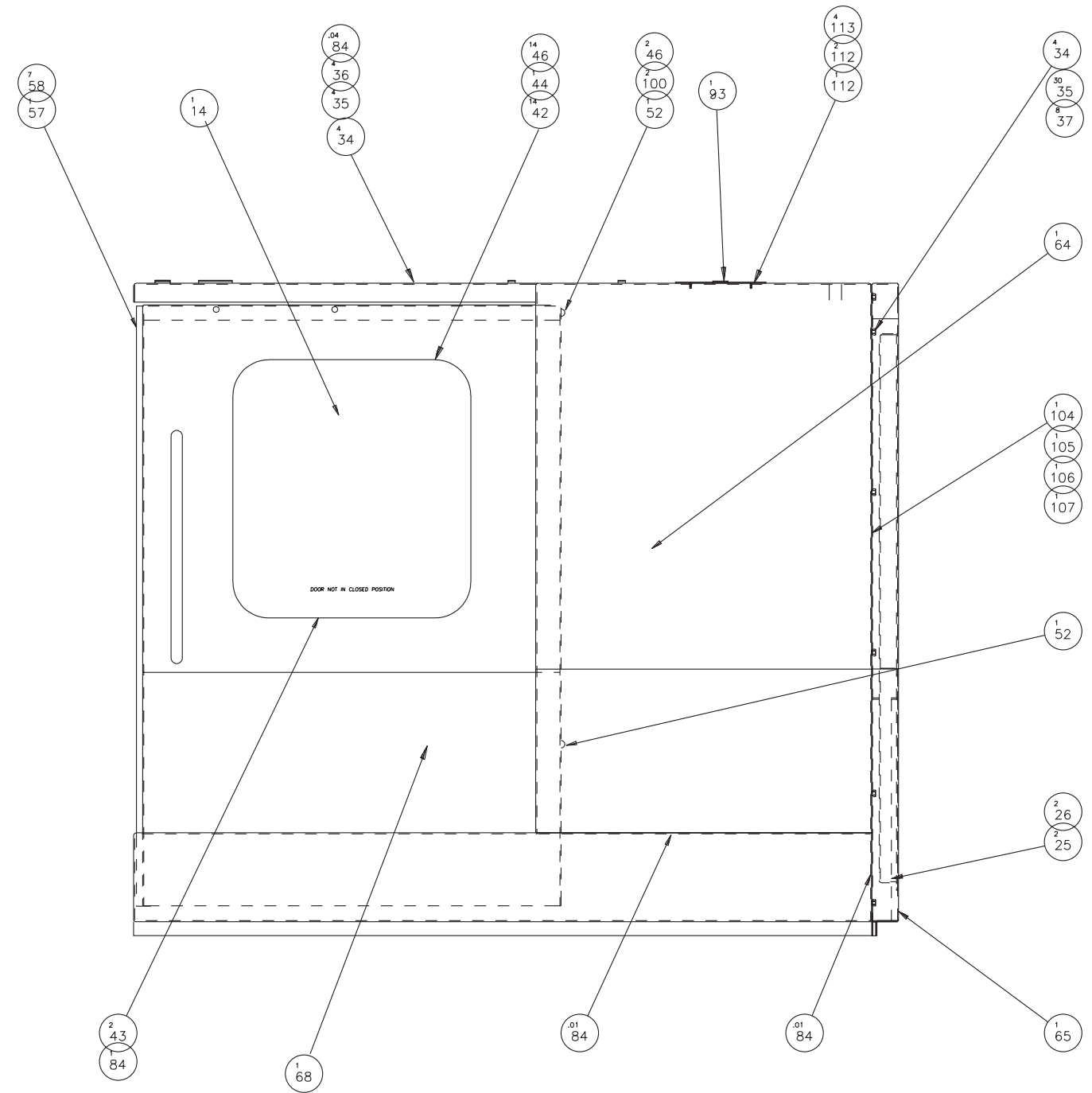
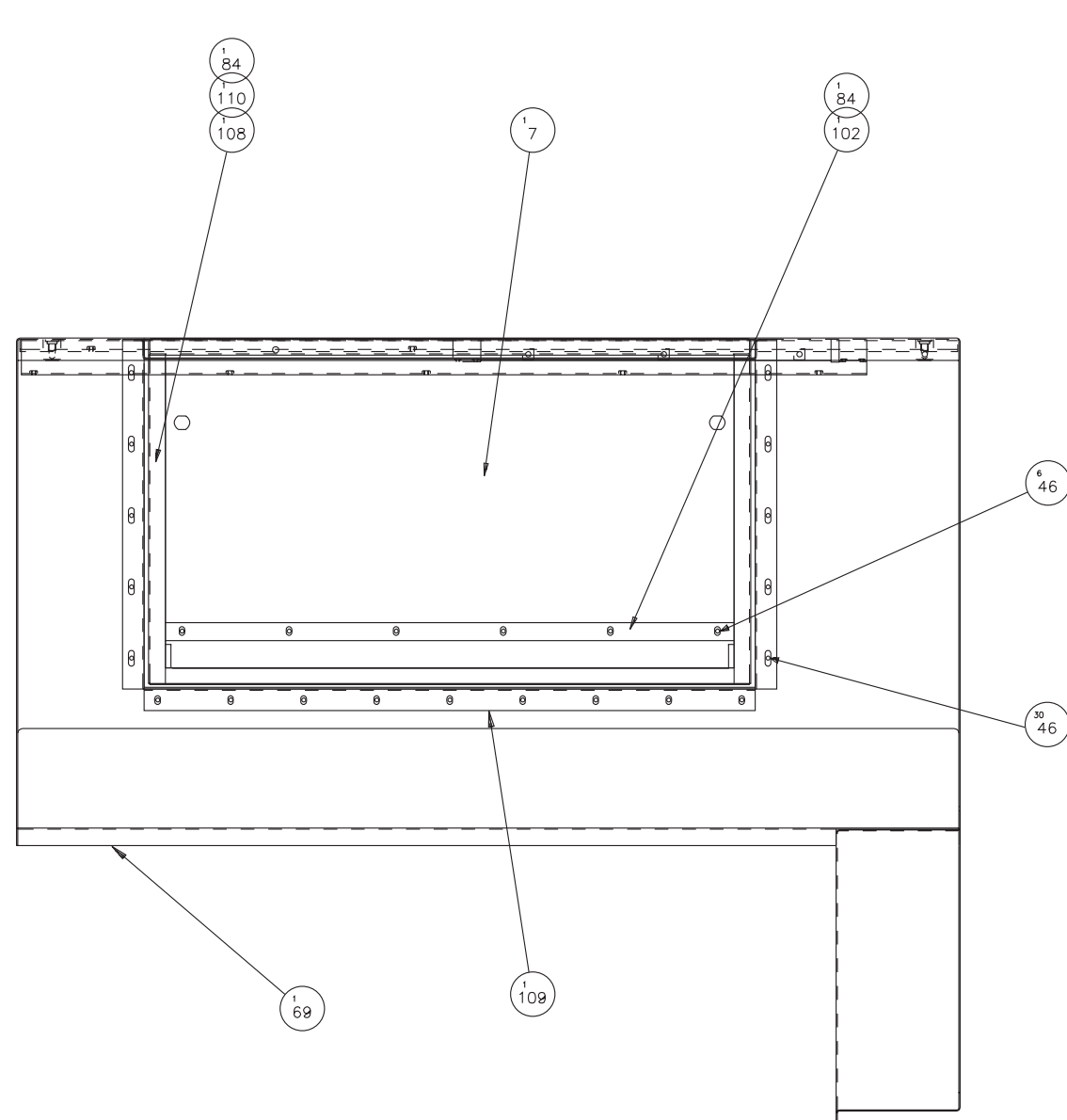
PART NUMBER
GA 0010453SG

SHEET
5 OF 5

Coolant Guard Assembly, Non-CE Mark



NAME COOLANT GUARD ASSEMBLY PART NUMBER SGA0010453 SHEET 1 OF 3



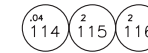
NAME
COOLANT GUARD ASSEMBLY
FRONT VIEW

PART NUMBER
SGA0010453
SHEET 2 OF 3

Coolant Guard Assembly, Non-CE Mark

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
5	CS 000022108	1.000	BRACKET, ROLLER MOUNTING
7	SG 001011529	1.000	COVER, ACCESS
8	CS 000199058	1.000	UPPER TRACK,COOLANT GUARD
9	CSA0006324	1.000	TRACK, DOOR
10	HG 000365003	1.000	SWITCH, LEVER ARM
11	CL 000891501	1.000	WORKLIGHT
12	CSB001022401	1.000	SWITCH, DOOR
13	CS 0012103	1.000	PLATE, ROLLER MOUNTING
14	CSB001044905	1.000	WINDOW
19	AH 0011281	2.000	BEARING
20	CSA0011404	4.000	DOOR ROLLER ASSEMBLY
21	CS 0010568	2.000	BUSHING, DOOR ROLLER UPPER
22	CS 001056801	4.000	BUSHING, DOOR ROLLER LOWER
23	HG 001173801	4.000	LATCH, RIGHT ACCESS DOOR
25	SB 0011965	2.000	DOOR ALIGNMENT PIN
26	R 0000331	2.000	NUT
27	CN 001119801	7.000	SEAL, DOOR
33	MS 0303615	19.000	SCREW, BT HD M6 X 1 X 10
34	MS 0303617	12.000	SCREW,BT HD M6 X 1 X 16
35	MW 0103610	57.000	WASHER, FLAT M6 X 1
36	MW 0183610	23.000	WASHER, FLAT DIN-7980
37	MW 0263610	28.000	WASHER, STAR
42	CS 001118206	14.000	BUSHING, WINDOW
43	CS 001011633	2.000	GASKET, WINDOW
44	CS 000399047	1.000	FRAME, WINDOW
46	MN 0283610	56.000	NUT, M6X1.0, SER HEX FLNG
51	MS 0303619	4.000	SCREW, BT HD M6 X 1 X 25
52	UE 0010541	2.000	BUMPER, RUBBER
54	CS 000891502	2.000	BRACKET
56	NC 0010884	0.310	LOCTITE 242
57	CS 000399091	1.000	LABRINYTH, DOOR
58	MS 0303514	7.000	SCREW,BT HD M5 X .8 X 12
59	MS 0153615	4.000	SCREW,HX HD CAP-M6 X 1.0 X 1
64	SG 0000221GE	1.000	GUARD, FRONT WELD ASSEM
65	SG 000022126	1.000	GUARD, RIGHT END ASSY
68	CSB000022137	1.000	FRONT DOOR GUARD WELD ASSY
69	SGB0000221GA	1.000	REAR GUARD ASSEMBLY
76	SG 0003780LW	1.000	DOOR, RIGHT ACCESS W/O WINDOW
78	6 0009181	2.000	STAR WASHER,LOCK
84	GE 0010884	4.060	GASKET ADHESIVE 847
93	DP 000960401	1.000	DOT PLUG
99	SG 0000221FP	1.000	PANEL, FRONT
100	SG 000032802	2.000	EXTENSION,STOP
101	HG 001173802	1.000	PULL, DOOR
102	SG 0001990	1.000	DEFLECTOR, DOOR(REAR ACCESS)
104	SGA0010116TR	1.000	GASKET, TOP RIGHT FRONT
105	SG 0010116MR	1.000	GASKET, MIDDLE RIGHT FRONT
106	SG 0010116LR	1.000	GASKET, LOWER RIGHT FRONT
107	SG 0010116BR	1.000	GASKET, BACK RIGHT
108	SG 000199052	1.000	RETAINER, BACK
109	SGA001011693	1.000	GASKET, REAR DOOR (BOTTOM)
110	SG 001011694	1.000	GASKET, REAR DOOR (SIDES)
112	CS 001011585	1.000	COVER, FILTERMIST
112	CS 001011625	2.000	GASKET, FILTERMIST
113	MN 0113310	4.000	NUT, HEX M3
114	NC 001088402	0.040	LOCTITE 222
115	MW 0103310	2.000	WASHER, FLAT
116	MS 0303315	2.000	SCREW, BHD MS X .5 X 10mm
117	SG 0004158 T	1.000	PLATE, SWITCH LOCATING

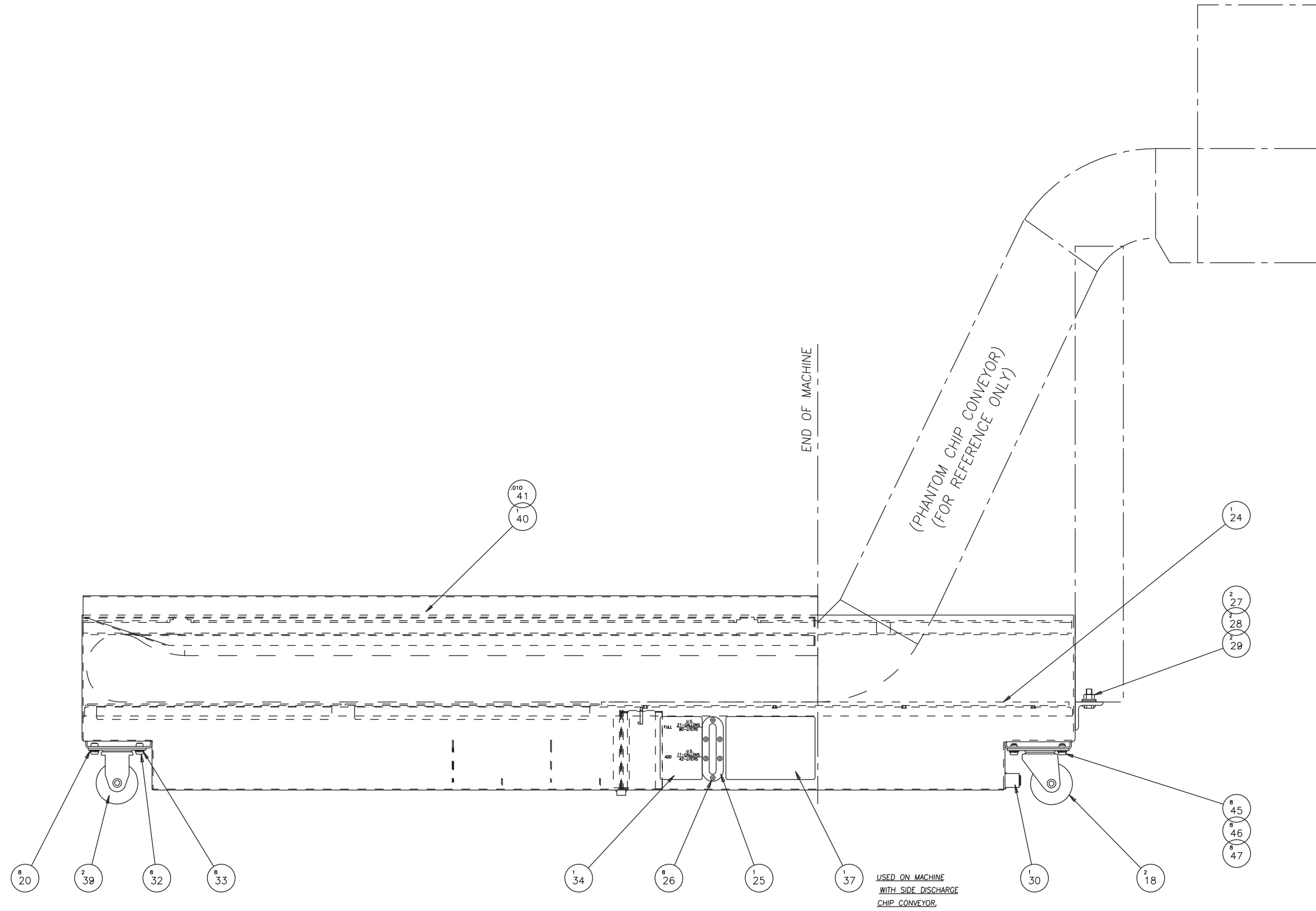
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
118	SG 0004158SMB	1.000	BRACKET, SWITCH MOUNTING
119	SG 0004158SB	1.000	BRACKET, SWITCH TRIP
120	SG 0004158SBC	1.000	COVER, SWITCH BRACKET
121	MS 0303617SA	4.000	SCREW ASSEMBLY, M6X1X16MM LO
122	MS 0303616SA	2.000	SCREW ASSEMBLY, 6MX1X12MM LO
123	KL 0009623	1.000	CLAMP
124	SB 0010785	1.000	BODY, 90 DEG CONN
125	DB 00092079E	1.000	GROMMET
126	50 0010226	1.000	GASKET ASSEMBLY 1/2 INCH
127	AH 0011508	1.000	NUT, LOCK
128	DB 00092079B	1.000	NUT CONNECTOR COMPRESS
129	DB 0009207 W	1.000	WASHER CONNECTOR
130	LC 0032316	1.000	SCREW, THR'D CUT-8-32 X 1/2
131	CS 001033103	1.000	PLUG, SNAP IN
132	LO 0004302	1.000	DOOR INTERLOCK SWITCH MTG LO



NAME
COOLANT GUARD ASSEMBLY

PART NUMBER
SGA0010453

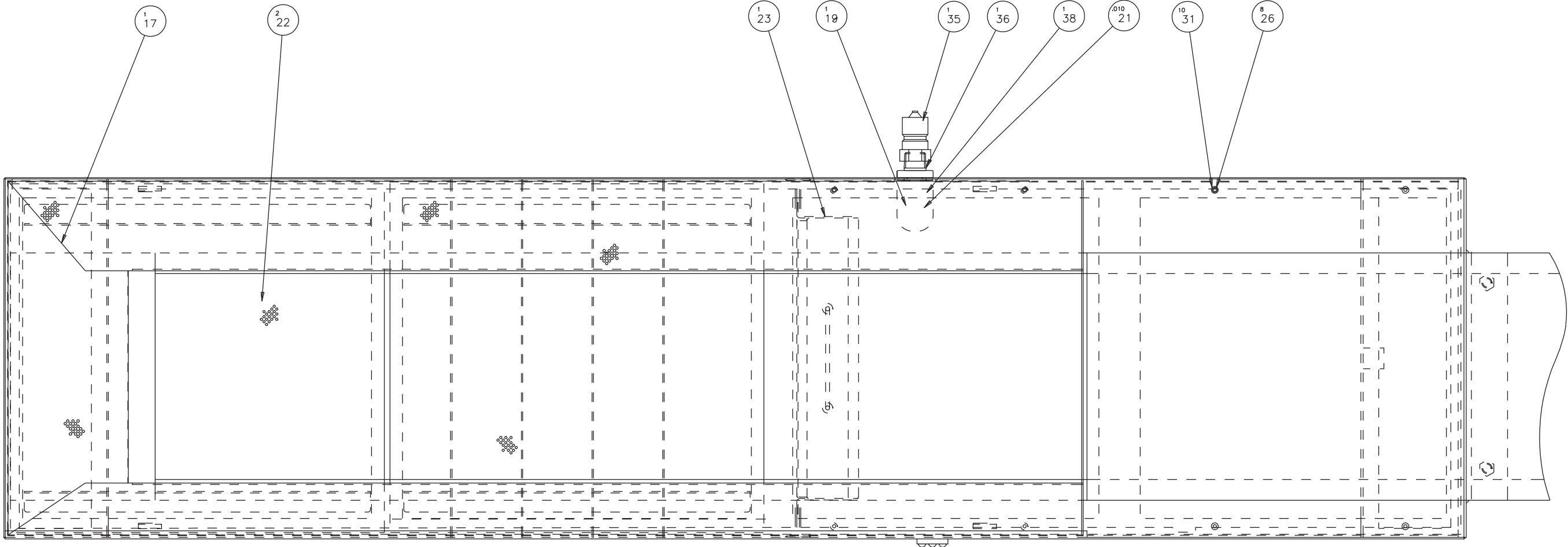
SHEET
3 OF 3



NAME
COOLANT TANK
WELD ASSEMBLY

PART NUMBER
SGA0003315SD
SHEET 5 of 7

Coolant Tank Assembly, Machine with Chip Conveyor



NAME
COOLANT TANK
WELD ASSEMBLY

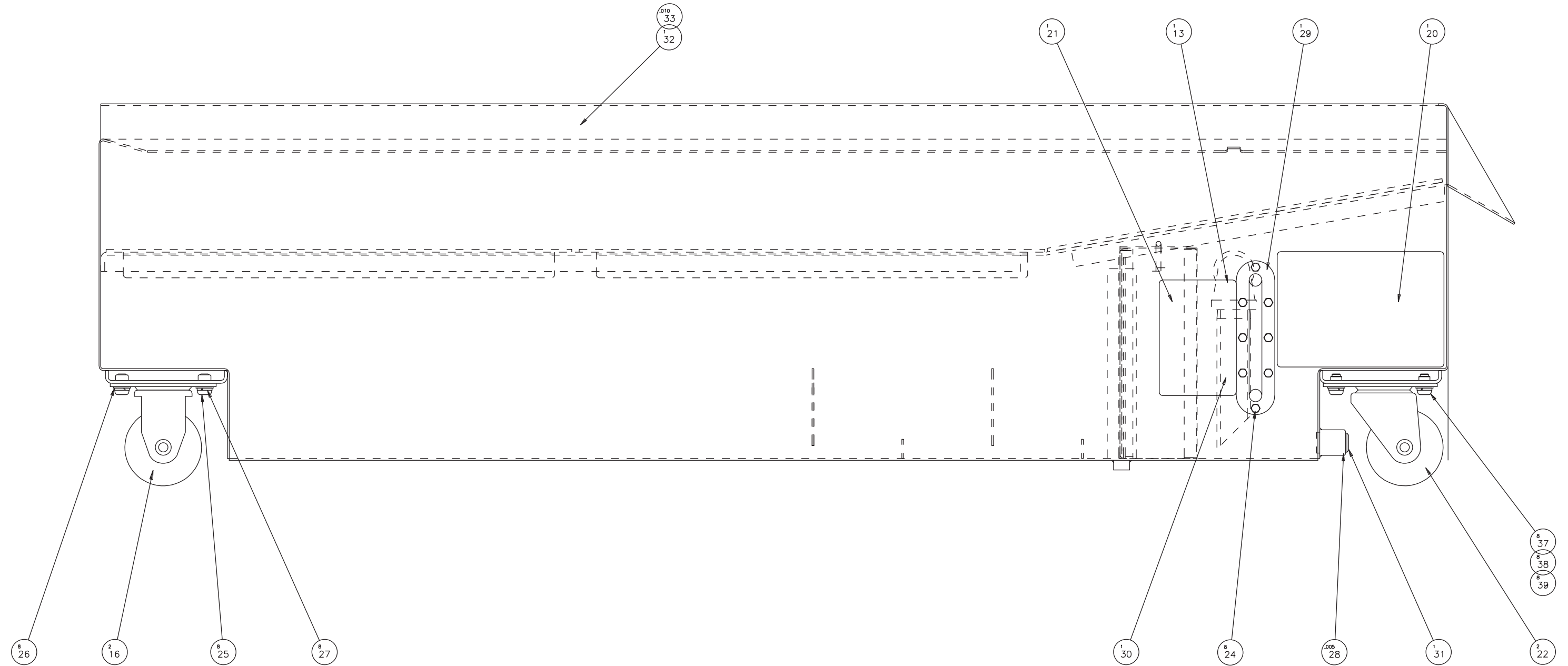
PART NUMBER
SGA0003315SD
SHEET 6 of 7

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	2000036	1.000	14GA (.0697) CRSS
2	CS 000399023	1.000	TANK, RIGHT END
3	CS 000399060	1.000	TANK, LEFT END
4	SG 000331501	1.000	BLOCK, CASTER MOUNTING
5	CS 000399056	1.000	BRACKET, CHIP CONVEYOR MOUNT
6	CN 000331501	1.000	BUSHING, PIPE
7	CS 000299095	1.000	STIFFENER
8	CS 000299096	1.000	SUPPORT, SCREEN
9	CS 00119425M	6.000	NUT, PEM M5 SELF CLHG
10	CS 000399045	2.000	BRACKET, FILTER MOUNT
11	CS 000399044	2.000	BRACKET, FILTER MOUNT
13	MS 0154020	2.000	SCREW, HEX HD.CAP M10X1.5X30
14	CSA000399071	1.000	STIFFENER, FRONT
15	CS 000399072	1.000	STIFFENER, BACK
16	CL 001125902	1.000	COUPLING, PIPE
17	CS 0000221AB	1.000	CHIP SHIELD WELD ASSEM. BACK
18	LC 0011557	2.000	CASTER, LCL SWIVEL
19	SG 001010906	1.000	NIPPLE, COOLANT TANK
20	MS 0303817	8.000	SCREW
21	SB 0010884 S	0.010	SEALANT - HYDRAULIC
22	CSA0003315T1	2.000	SCREEN, WELD ASSEMBLY
23	CS 000399053	1.000	FILTER WELD ASSEMBLY
24	SG 0010115SUMP	1.000	COVER, SUMP
25	CC 0011318	1.000	GAUGE, LEVEL
26	MS 0303517	16.000	SCREW, BUTON HD. M5X.8X16MM
27	MN 0114010	2.000	NUT,HEX M10-1.5
28	MW 0104010	2.000	WASHER, FLAT M10 X 1.5 STEEL
29	MW 0194010	2.000	WASHER, LOCK
30	3750001467	1.000	PLUG, 3/8 PIPE HEX SOCKET
31	MW 0193510	10.000	WASHER, LOCK DIN-7980 M5X.8
32	MW 0103810	8.000	WASHER, FLAT M8 X 1.25 STEEL
33	MW 0193810	8.000	WASHER, LOCK DIN-7980 M8X1.2
34	CS 001036626	1.000	TAG, COOLANT GUAGE
35	CL 001125903	1.000	COUPLER, QUICK DISCONNECT
36	CL 001010902	1.000	1"XCLOSE STD BLK PIPE NIPPLE
37	CS 001036629	1.000	TAG (COOL TNK SPLASH SHLD)
38	CL 000770301	1.000	1" BLK IRON STREET ELBOW
39	CL 0011557	2.000	CASTER, RIGID
40	SG 002011602	1.000	STRIP, COOLANT TANK SPLASH
41	DV 0010884	0.010	ADHESIVE
42	SG 0003315B2	2.000	BAFFLE, COOLANT TANK
43	SG 0003315B1	2.000	BAFFLE, COOLANT TANK
44	SG 000331503	1.000	BLOCK, CASTER MOUNTING
45	MS 0103617	8.000	SCREW, SOC.HD.CAP M6X1.0X16M
46	MW 0193610	8.000	WASHER, LOCK DIN-7980 M6X1.0
47	MW 0103610	8.000	WASHER, FLAT M6 STEEL

NAME
COOLANT TANK
(WITH CONVEYOR)

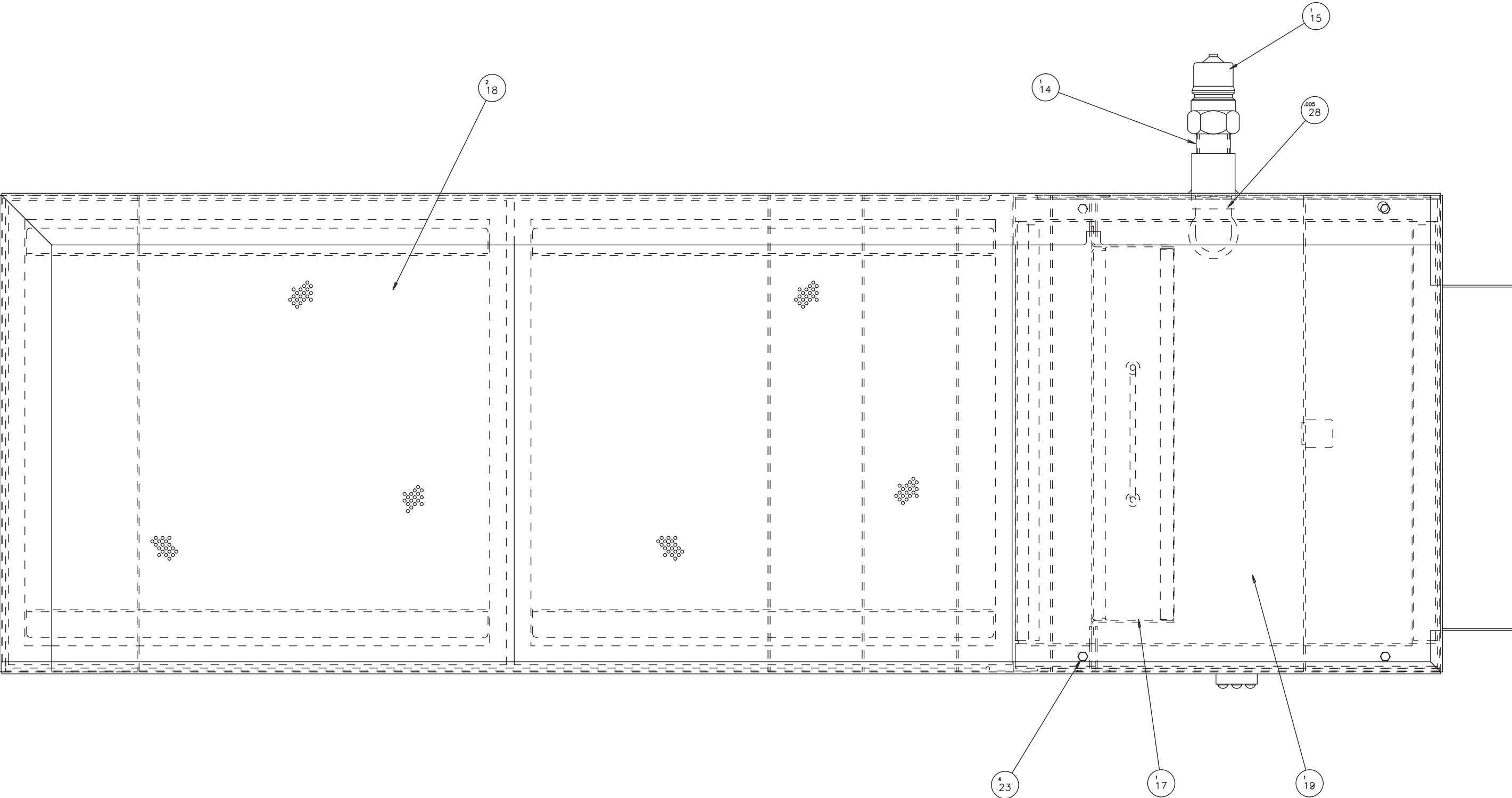
PART NUMBER
SGA0003315SD
SHEET 7 of 7

Coolant Tank Assembly, Machine without Chip Conveyor



NAME COOLANT TANK ASSEMBLY (MACHINE W/O CHIP CONV.)
PART NUMBER SGA0003315TA
SHEET 5 of 7

Coolant Tank Assembly, Machine without Chip Conveyor



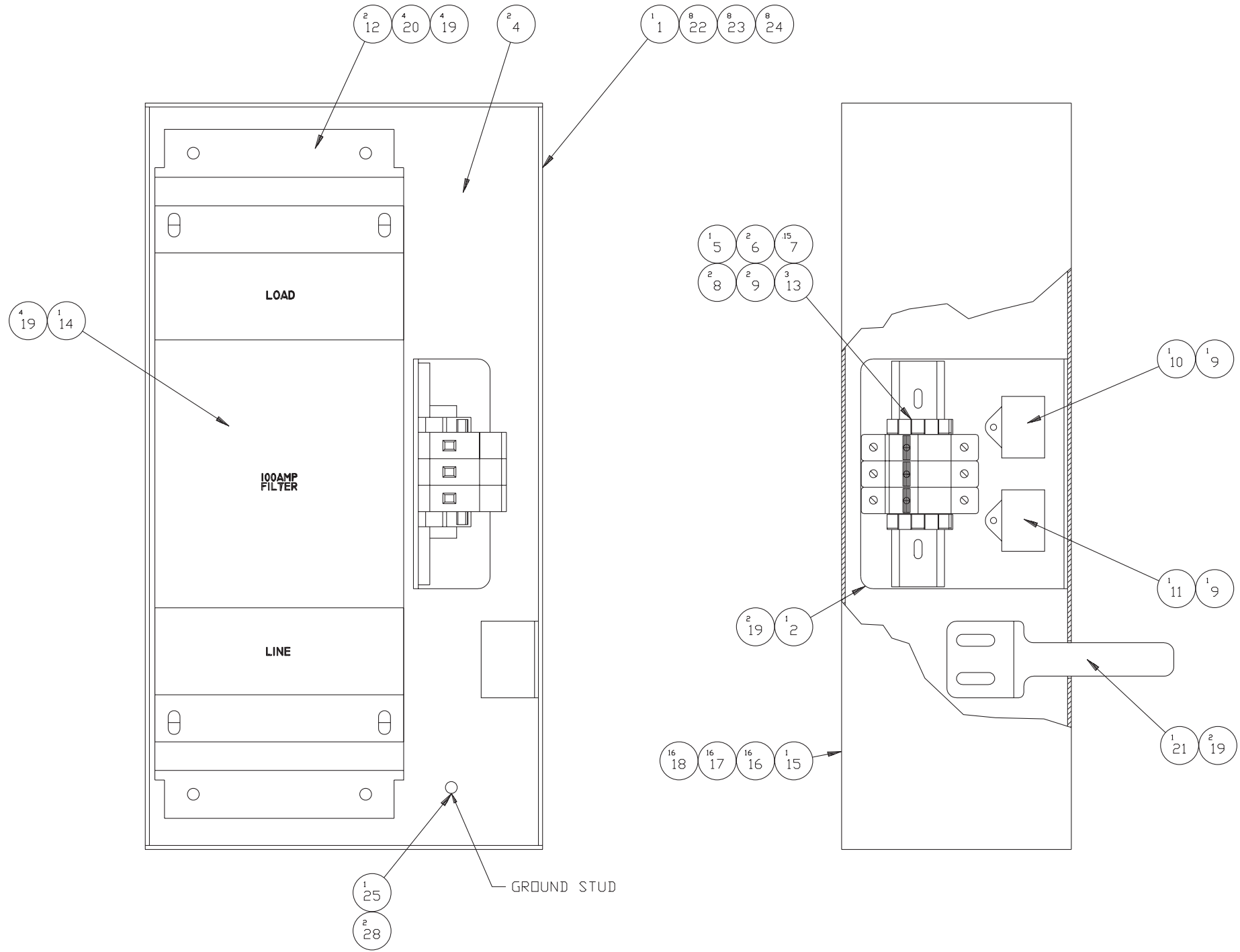
NAME COOLANT TANK ASSEMBLY (MACHINE W/O CHIP CONV.) PART NUMBER SGA0003315TA SHEET 6 of 7

Coolant Tank Assembly, Machine without Chip Conveyor

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	2000032	55.800	14 GA (.0697) CRSS
2	CS 000331503	1.000	TANK, RIGHT END
3	CSA000331504	1.000	TANK,LEFT END
4	SG 000331501	1.000	BLOCK, CASTER MOUNTING
5	CN 000331501	1.000	BUSHING, PIPE
6	CS 000331505	1.000	SUPPORT, SCREEN
7	CS 000299025	1.000	TROUGH, CHIP
8	CL 001125902	1.000	1" FPT TO 1" FPT STD PIPE CO
9	CS 000299039	2.000	BRACKET, FILTER MOUNT
10	CS 000299040	2.000	BRACKET, FILTER MOUNT
11	CS 000299095	1.000	STIFFENER
12	CS 00119425M	8.000	M5 NUT, SELF CLINCHING
13	CL 000770301	1.000	1" BLK IRON STREET ELBOW
14	CL 001010902	1.000	1"XCLOSE STD BLK PIPE NIPPLE
15	CL 001125903	1.000	COUPLER, QUICK DISCONNECT
16	CL 0011557	2.000	CASTER, RIGID
17	CS 000299027	1.000	FILTER WELD ASSEMBLY
18	CSA0003315T1	2.000	SCREEN WELD ASSEMBLY
19	CSA001011501	1.000	COVER, SUMP
20	CS 001036637	1.000	TAG
21	CS 001052201	1.000	TAG, COOLANT LEVEL
22	LC 0011557	2.000	CASTER, LCL SWIVEL
23	MS 0303515	4.000	SCREW, BT. HD. M5X.8,X 10MM
24	MS 0303517	8.000	SCREW, BUTTON HD. M5X.8X16MM
25	MS 0303817	8.000	SCREW
26	MW 0103810	8.000	WASHER, FLAT M8 X 1.25 STEEL
27	MW 0193810	8.000	WASHER, LOCK DIN-7980 M8X1.2
28	SB 0010884 S	0.010	SEALANT - HYDRAULIC
29	SB 001131801	1.000	GAUGE, LEVEL
30	SG 001010906	1.000	NIPPLE, COOLANT TANK
31	3750001467	1.000	PLUG, 3/8 PIPE HEX SOCKET
32	SG 002011602	1.000	STRIP, COOLANT TANK SPLASH
33	DV 0010884	0.010	ADHESIVE
34	SG 0003315B2	2.000	BAFFLE, COOLANT TANK
35	SG 0003315B1	2.000	BAFFLE, COOLANT TANK
36	SG 000331503	1.000	BLOCK, CASTER MOUNTING
37	MS 0103617	8.000	SCREW, SOC.HD.CAP M6X1.0X16M
38	MW 0193610	8.000	WASHER, LOCK DIN-7980 M6X1.0
39	MW 0103610	8.000	WASHER, FLAT M6 STEEL

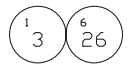
NAME
COOLANT TANK
WELD ASSEMBLY

PART NUMBER
SGA0003315TA
SHEET 7 of 7



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	HG 0004158FBB	1.000	SUPPDRT, FILTER BDX BOTTOM
2	HG 0004158FB	1.000	BRACKET, FUSE MOUNTING
3	HG 0003279WPF1	1.000	WIRE PACKAGE - FILTER BDX
4	CL 0009532	2.000	GROMMET
5	SG 0010017	1.000	HOLDER, FUSE 3P/W IND.CC FUS
6	HG 001103204	2.000	END STOP
7	CK 9011032	0.150	RAIL, DIN BLANK
8	MW 0263410	2.000	WASHER, EXT. STAR M4
9	MS 0303514	4.000	SCREW, BT. HD. M5 X .8 X 8MM
10	18 001129806	1.000	SUPPRESSOR L-L
11	18 001129807	1.000	SUPPRESSOR L-E
12	HG 0010449LS01	2.000	SHIELD, LEXAN FOR EMI FILTER
13	SG 000961001	3.000	FUSE, 5A CLASS CC
14	18 001129804	1.000	FILTER, EM NOISE 100A
15	HG 0004158FBC	1.000	COVER, FILTER BDX
16	MS 0303515SS	16.000	SCREW, BT. HD. M5X.8,X 10MM
17	MW 0103510	16.000	WASHER, FLAT M5 X .8 STEEL
18	MW 0183510	16.000	WASHER, LOCK REG. M5 X .8 SC
19	MN 0283610	12.000	NUT, M6X1.0, SER HEX FLNG
20	5P 0006431 B	4.000	WASHER FOR SWITCH BRACKET
21	HG 0001990CFB	1.000	BRACKET, FILTER BDX
22	MS 0303615SS	8.000	SCREW, BT HD M6X1.0X 10MM SS
23	MW 0103610SS	8.000	WASHER, FLAT M6 STAINLESS ST
24	MW 0183610SS	8.000	LOCKWASHER, M6 STAINLESS STE
25	5160009188RBC	1.000	TERM, 5/16 RING 16-14 AWG
26	CK 000918816 L	6.000	FERRULE, 16 AWG LONG
28	MN 0113813	2.000	NUT, M8 X 1.25 BRASS

NOT SHOWN

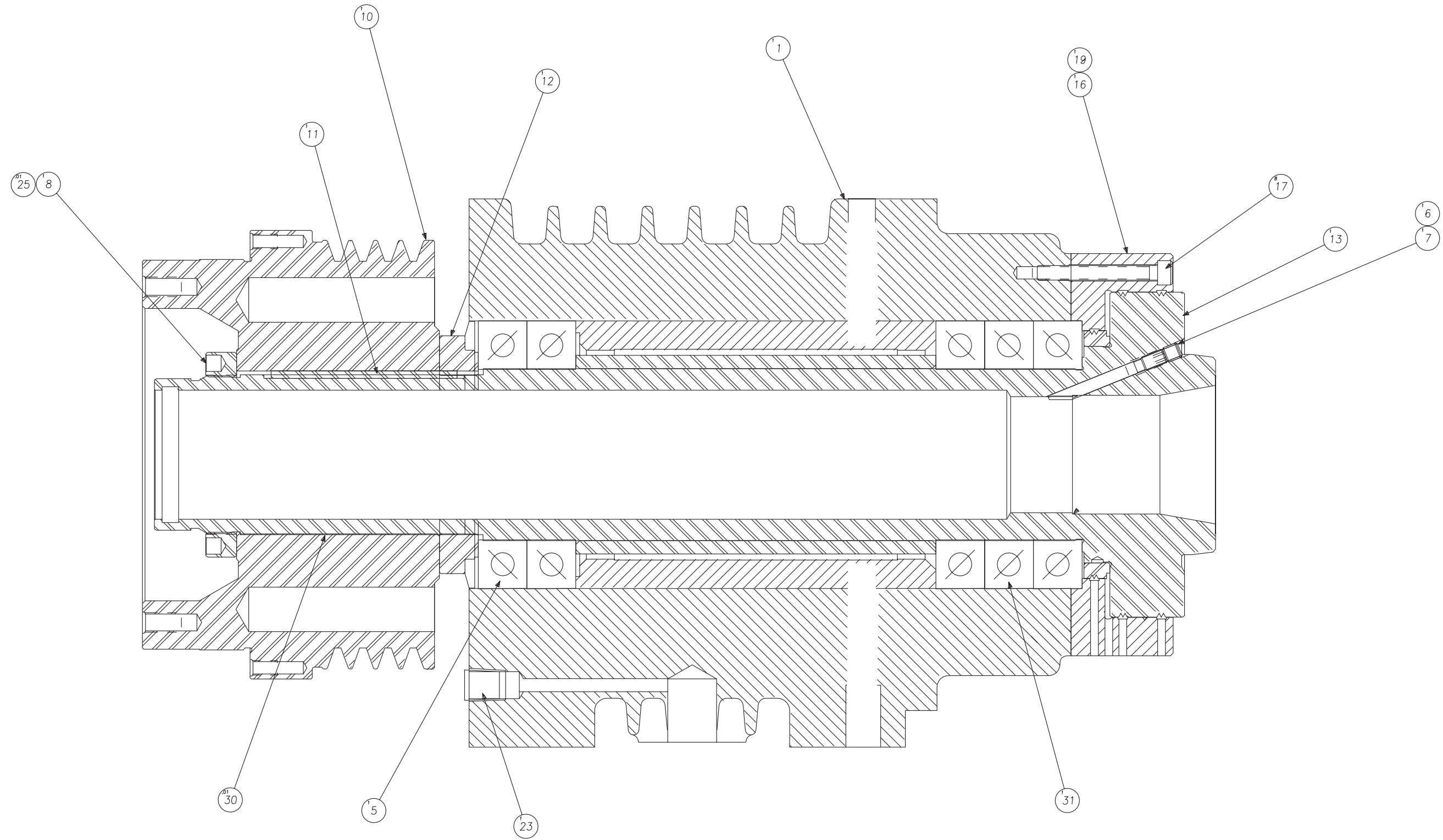


NAME
100A FILTER ENCLOSURE
ASSEMBLY

PART NUMBER
HG 0003279FBA

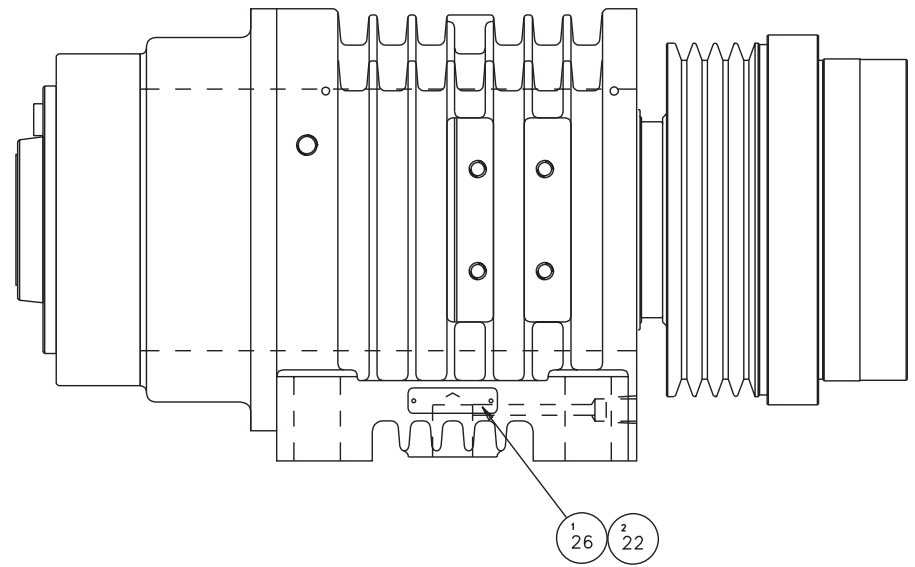
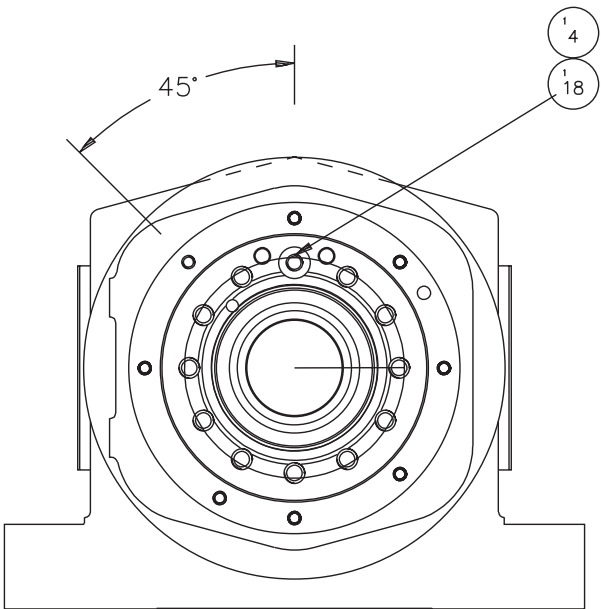
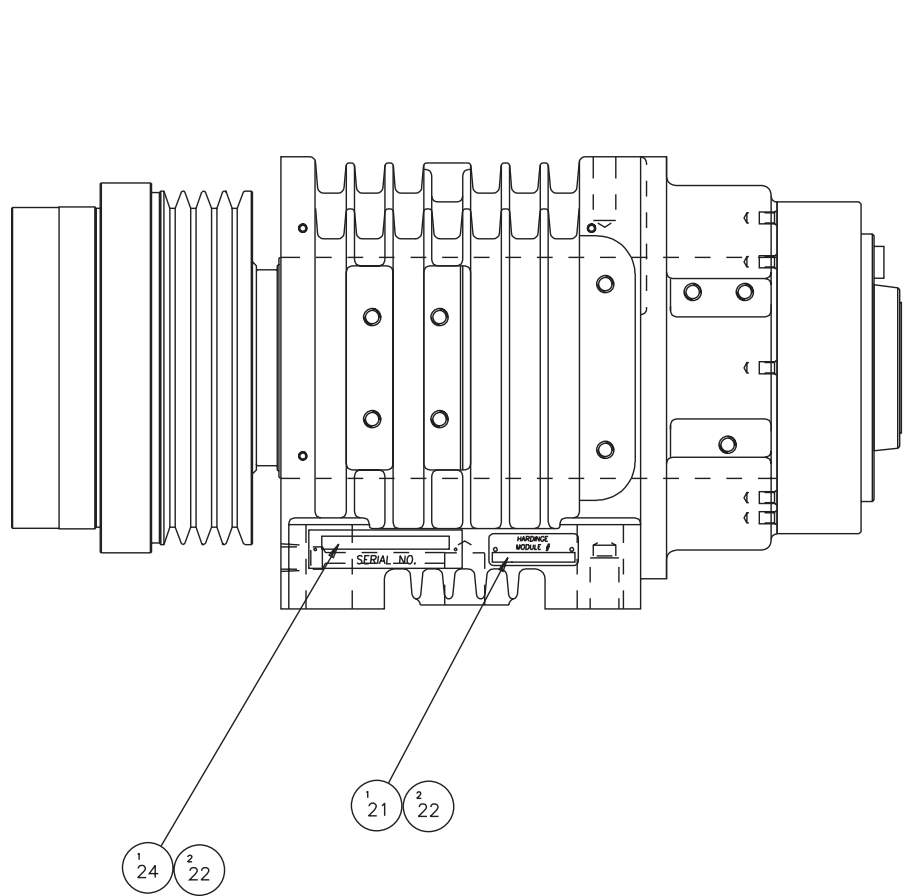
SHEET
1 of 1

Headstock Assembly



NAME
SG HEADSTOCK ASSEMBLY

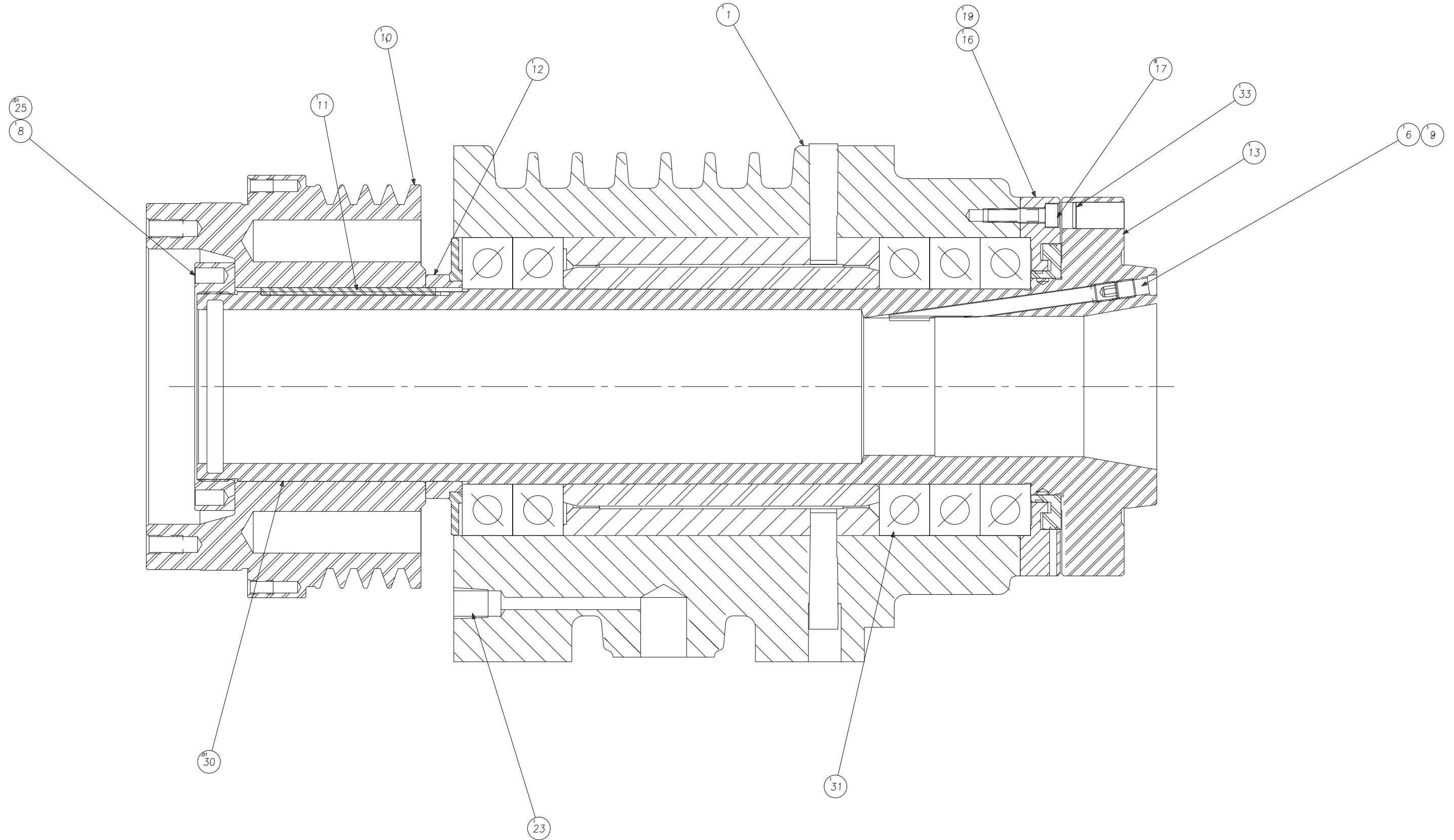
PART NUMBER
SG-0000002
SHEET 1 of 2



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SG 0000264	1.000	HEADSTOCK
4	CL 0011820	1.000	SCREW, BUTTON
5	HC 0000265GT	1.000	BEARING, PAIR
6	CS 0000284	1.000	SCREW, COLLET KEY
7	MS 0573613	1.000	SCREW, SET M6 X 1 X 6MM
8	CCA0004068 A	1.000	NUT, SPINDLE
10	SG 0004053	1.000	PULLEY, SPINDLE
11	SG 0006317	1.000	KEY FOR PULLEY
12	SGA0003177 D	1.000	TIMING PULLEY ASSEMBLY
13	SG 0000283 M	1.000	SPINDLE, METRIC
16	SG 0000275	1.000	CAP, FRONT
17	MS 0103624	8.000	SCREW, SOC HD CP
18	A2 0011820	1.000	BUTTON, DRIVING
19	SG 0010116A1	1.000	GASKET, FRONT CAP
21	CS 0001535 M	1.000	LABEL, MODULE NUMBER
22	R 0008044	6.000	PIN, ESCUTCHEON
23	CS 000146701	1.000	PLUG, 1/4-19 BSPT
24	KL 0001535	1.000	PLATE-SERIAL NUMBER
25	NC 0010884	0.010	LOCTITE, ADHESIVE
26	CS 001036633	1.000	LABEL, PATENT NO.
30	KH 001088402	0.010	ADHESIVE, LOCTITE
31	SG 0000265	1.000	BEARING, HEADSTOCK

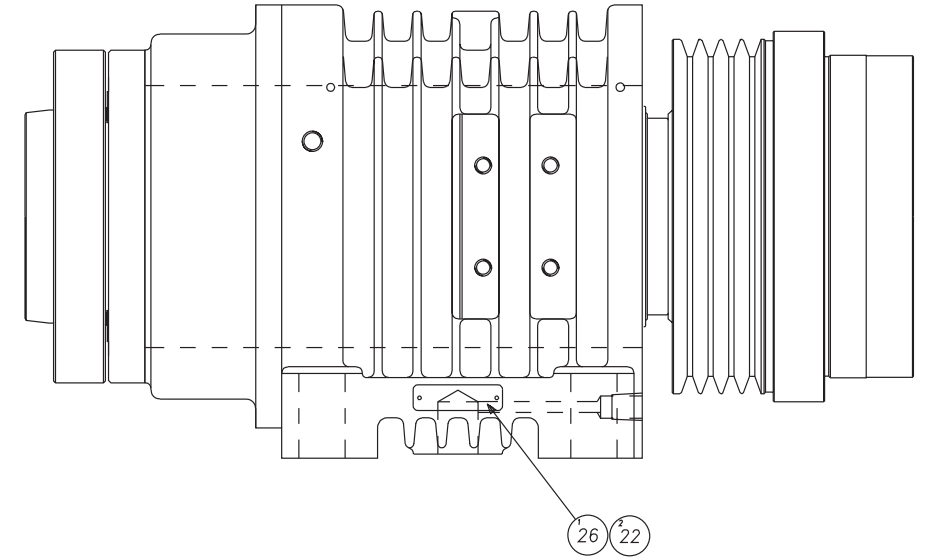
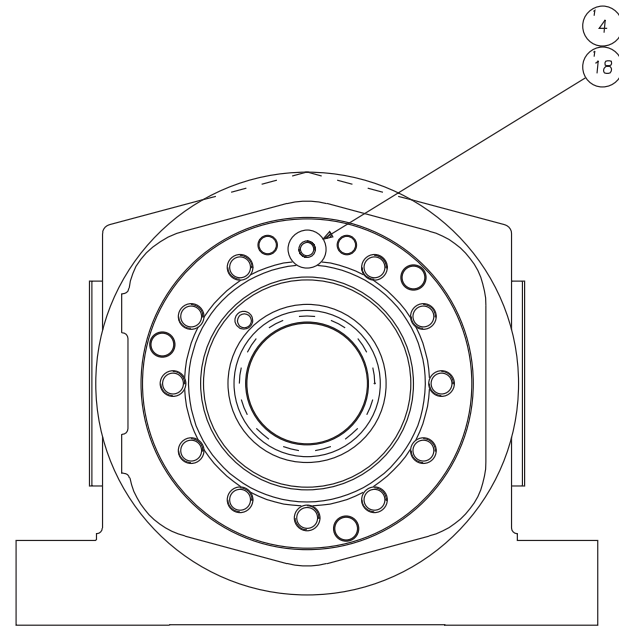
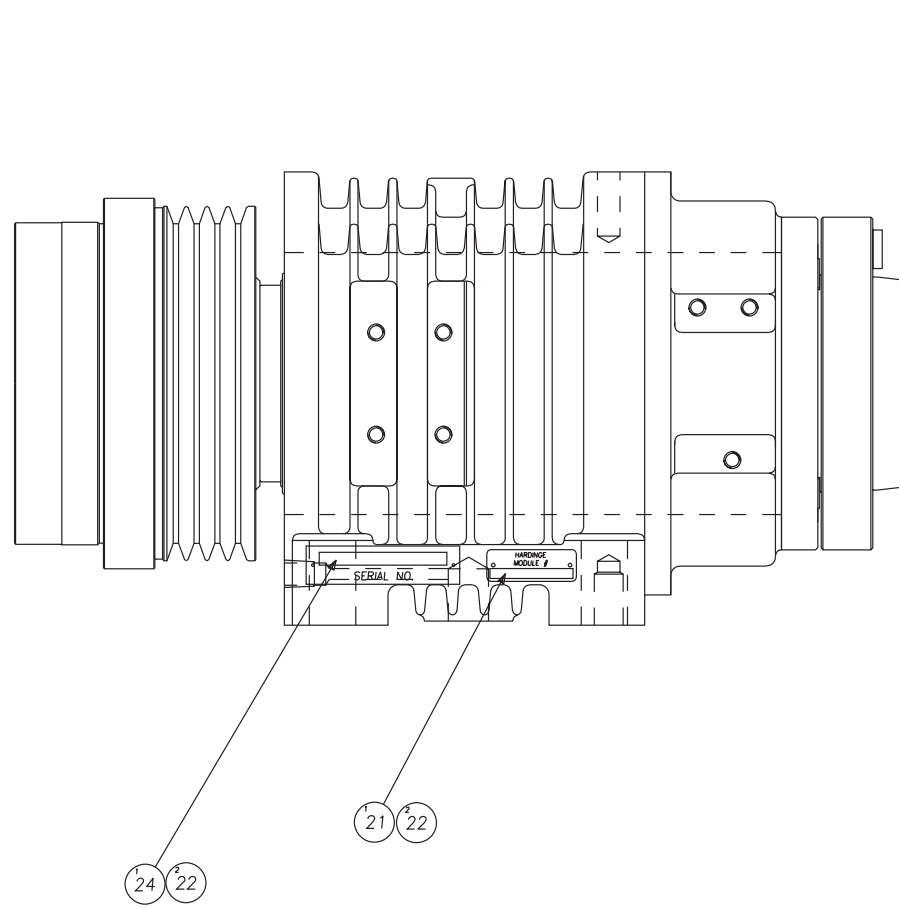
NAME HEADSTOCK ASSEMBLY PART NUMBER SG 0000002
 SHEET 2 OF 2

Headstock Assembly, Big Bore



NAME
HEADSTOCK ASSEMBLY
(SG BIG BORE)

PART NUMBER
SGB-000002-BB
SHEET 1 of 2



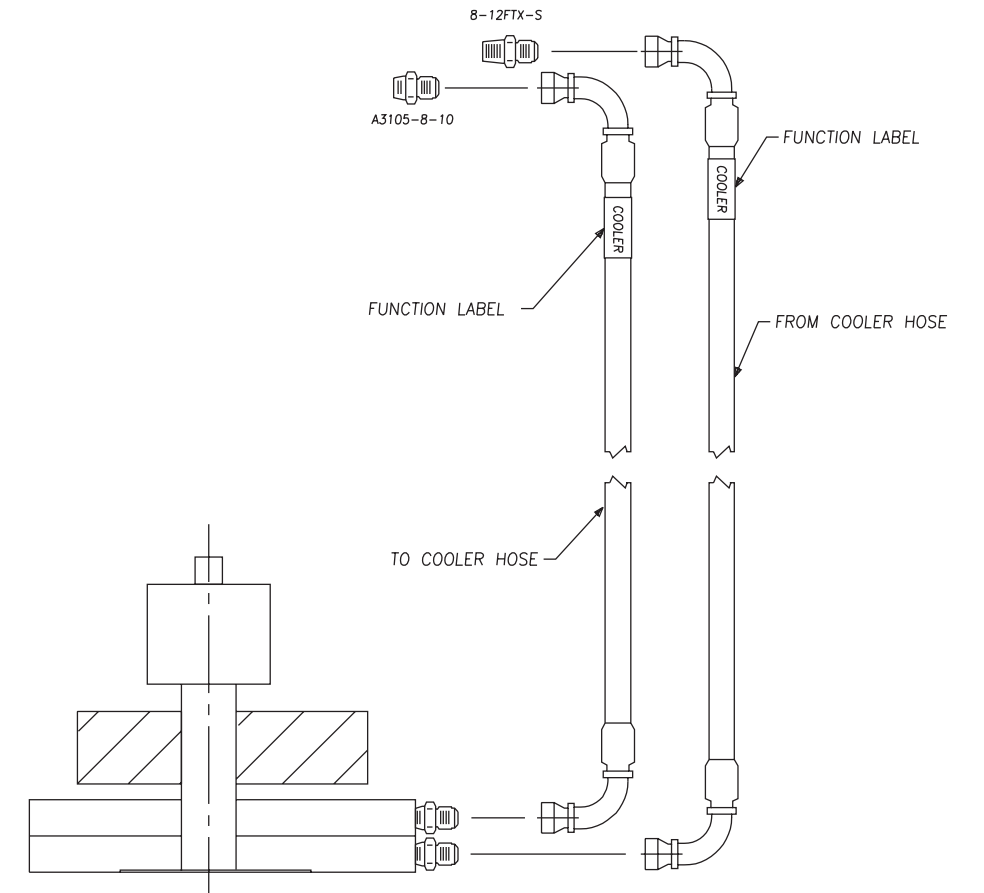
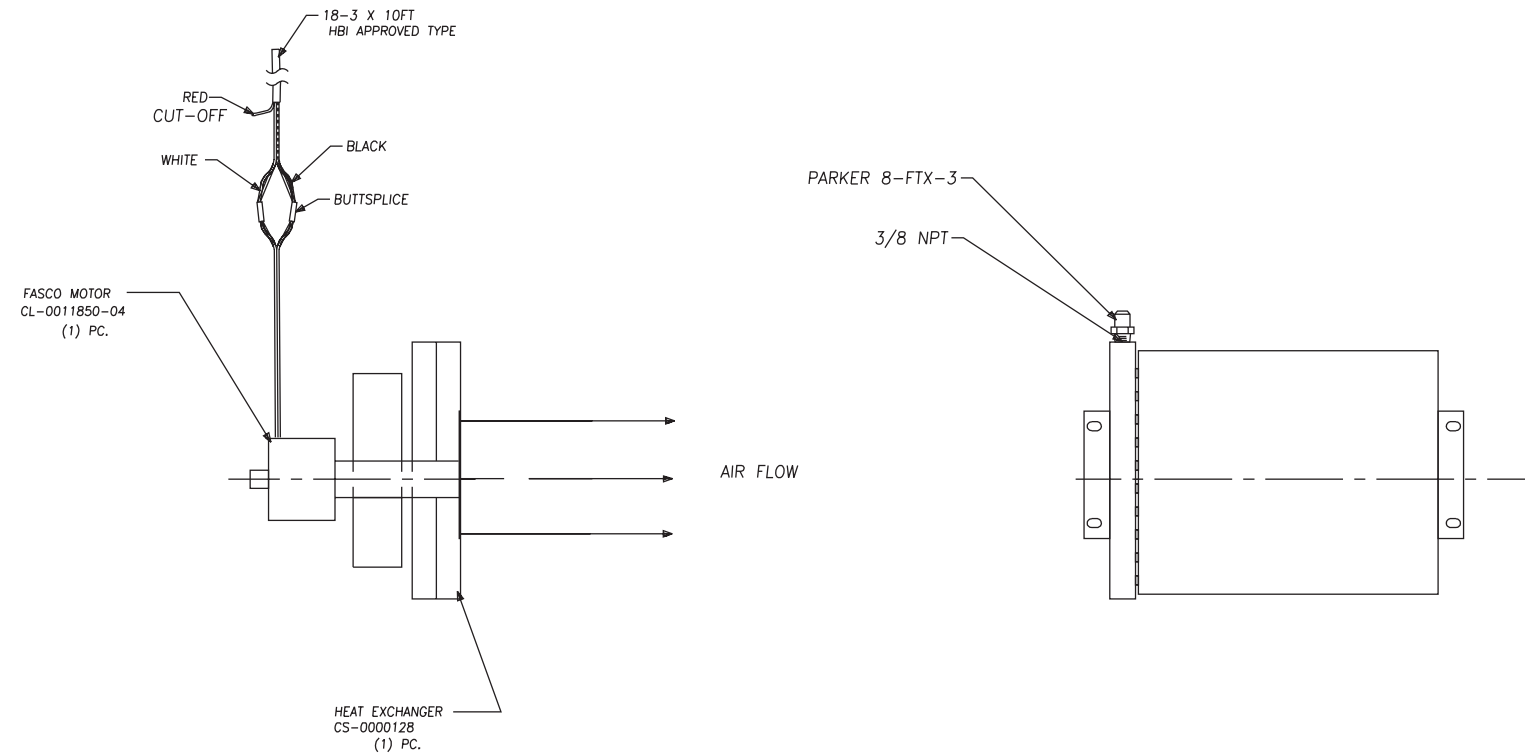
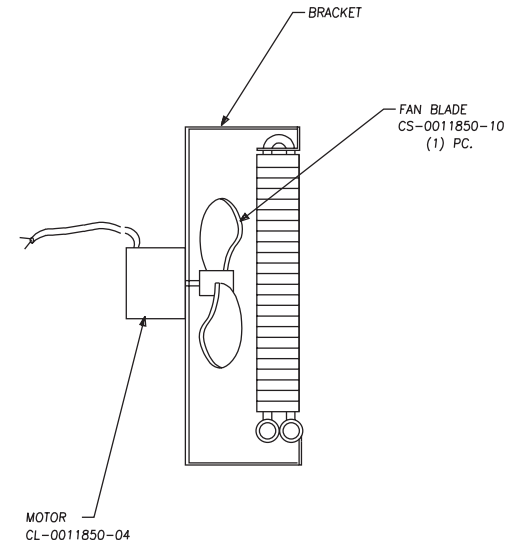
32

33	SG-0009727	1	PLUG
32	LO-0002644	1	BEARING FIT UP SPEC
31	SG-0000265-B	1	BEARING, HEADSTOCK
30	KH-0010884-02	0	ADHESIVE, LOCTITE
26	CS-0010366-33	1	LABEL, PATENT NO.
25	NC-0010884	0	LOCTITE, ADHESIVE
24	KL-0001535	1	PLATE-SERIAL NUMBER
23	CS-0001467-01	1	PLUG
22	R -0008044	6	PIN, ESCUTCHEON
21	CS-0001535-M	1	LABEL, MODULE NUMBER
19	SG-0010116-CF	1	GASKET, FRONT CAP
18	CL-0011920	1	BUTTON, DRIVING
17	MS-0103619	8	SCREW, SOC HD M6
16	SGA-0000275-B	1	FRONT CAP
13	SGA-0000283-BB	1	SPINDLE, BIG BORE
12	SG-0003177-BB	1	TIMING PULLEY ASSEM
11	SG-0006317	1	KEY FOR PULLEY
10	SG-0004053-B	1	PULLEY, SPINDLE
9	MS-0553814	1	SCREW SOC ST CP PT M8
8	SG-0004068-B	1	NUT, SPINDLE
6	SG-0000284	1	SCREW, COLLET KEY
4	CL-0011920-01	1	SCREW, BUTTON
1	SGA-0000264-BB	1	HEADSTOCK, BIG BORE
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME HEADSTOCK ASSEMBLY
BIG BORE

PART NUMBER SGB-0000002-BB
SHEET 2 of 2

Heat Exchanger, Standard Machine



HOSE TITLE	MFG. PART NO.	HARDINGE PART NO.	L (in)	HOSE	FITTING SIZE
TO COOLER	75203939-8-8-8	CL-0007004-10	24	-8	3/4-16 JIC
FROM COOLER	75203939-8-8-8	CL-0007004-11	30	-8	3/4-16 JIC

NAME
HEAT EXCHANGER
STANDARD

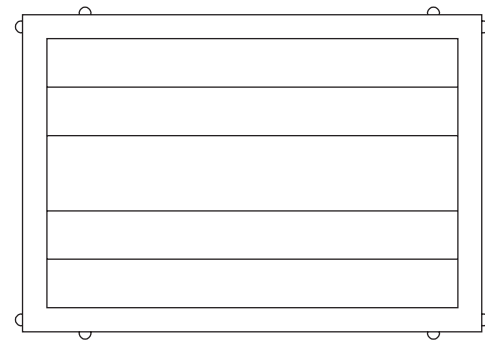
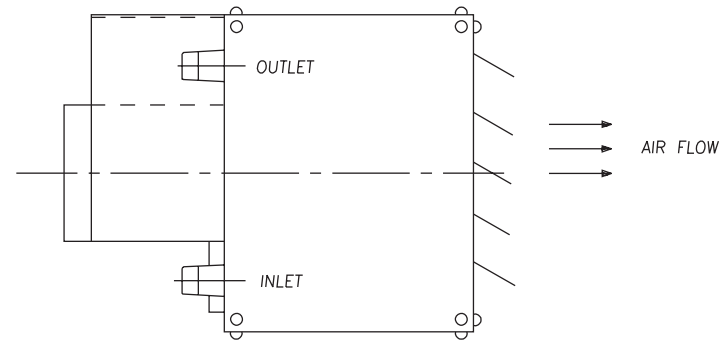
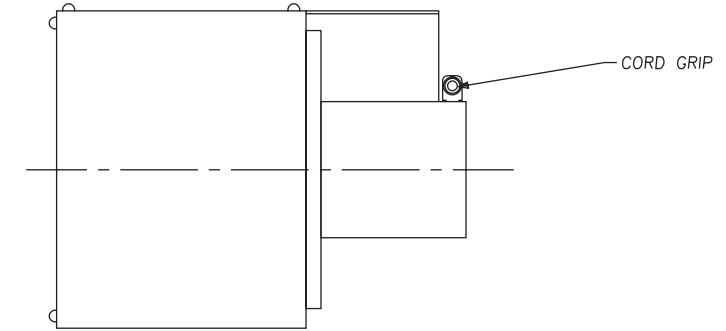
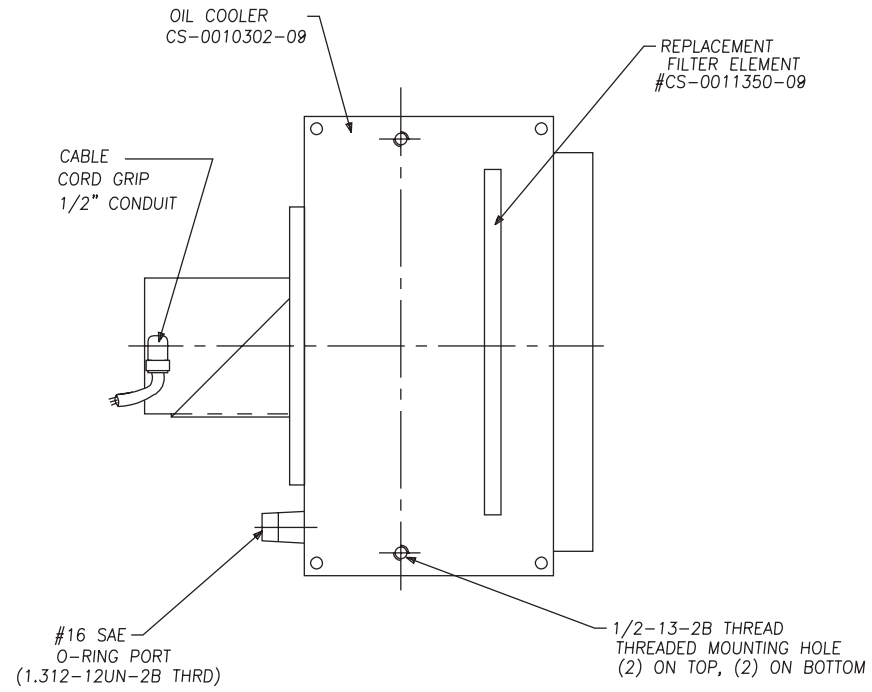
PART NUMBER
SG-0000128-G
SHEET 1 of 1

HYDRAULIC HEAT EXCHANGER
MOTOR WIRING

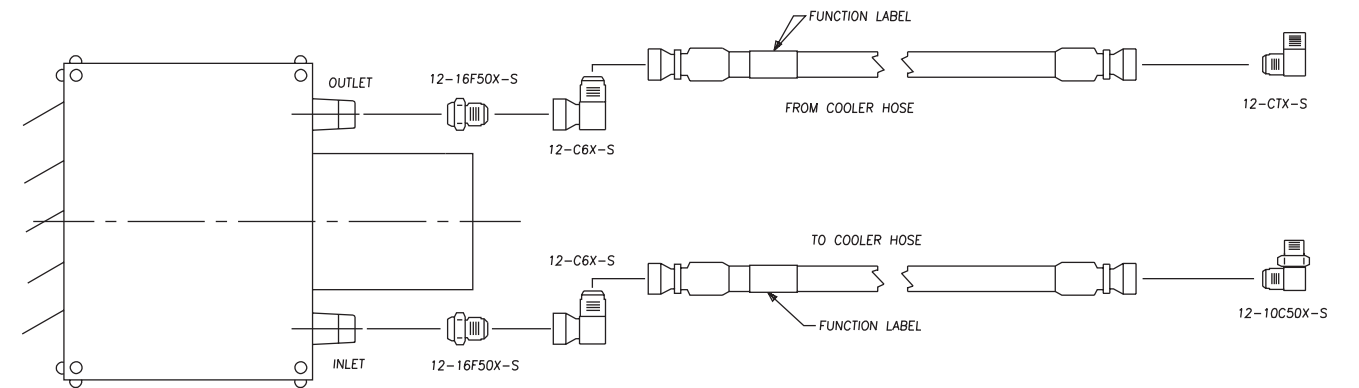
BLACK	T2 AND T8
WHITE	T1 AND T7
RED	T3 AND T9
JUMPER	T4-T5-T6
GREEN	GROUND

MOTOR:

LEESON, CAT NO. 100123.00
TENV, J48 FRAME
1/4 HP, 50/60 HZ
1725/1425 RPM
208/230 /460
1.2/1.4 AMPS, 0.6/0.7 AMPS
1.15 SERVICE FACTOR
CONTINUOUS DUTY, B1 INSULATION CLASS
3 PHASE
NOT THERMALLY PROTECTED
POWER FACTOR - 66
EFFICIENCY - 65%



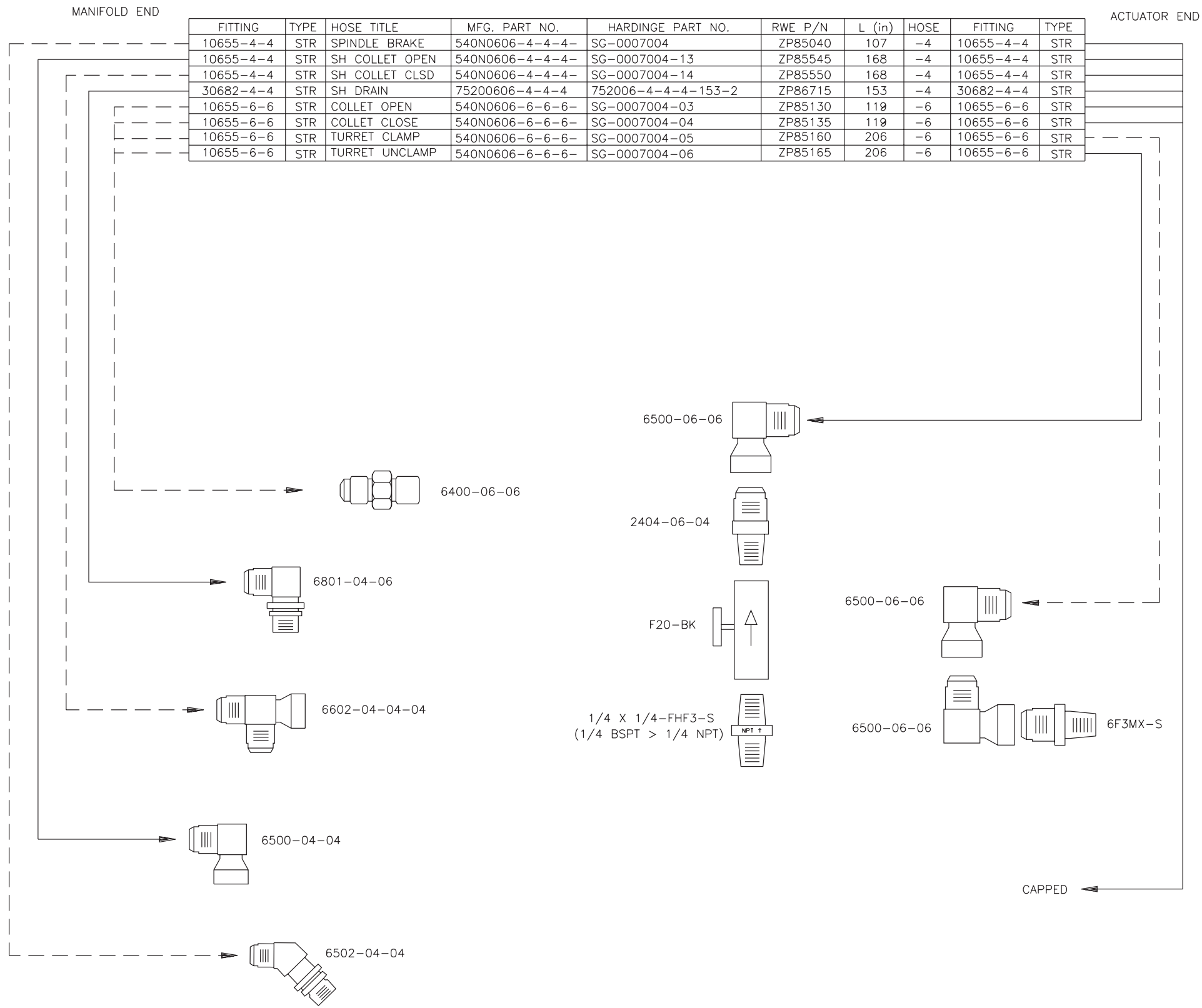
THERMAL TRANSFER #AOF-10-78115



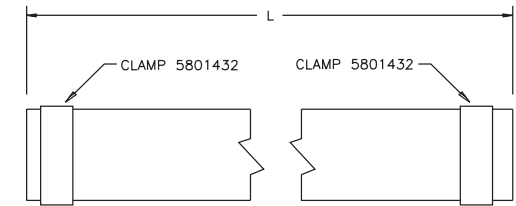
HOSE TITLE	MFG. PART NO.	HARDINGE PART NO.	L (in)	HOSE	FITTING SIZE
TO COOLER	75200606-12-12-12-	CL-0007004-21	24	-12	1 1/16-12 JIC
FROM COOLER	75200606-12-12-12-	CL-0007004-20	30	-12	1 1/16-12 JIC

NAME HEAT EXCHANGER PART NUMBER SG-0000128-SP
SUPER PRECISION MACHINE SHEET 1 OF 1

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



HOSE TITLE	MFG. PART NO.	HARDINGE PART NO.	L (in)	HOSE
COLLET DRAIN	H090-G 140-0280-100	--	168	-16

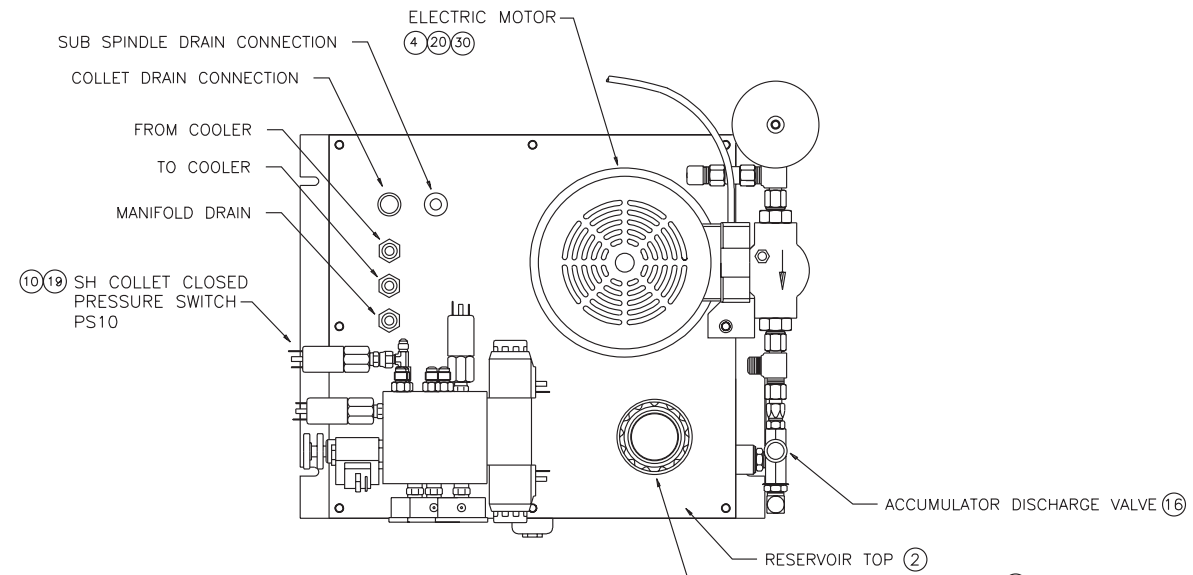


NAME
HYDRAULIC HOSE ASSEMBLY,
BALL SCREW, CEMARK

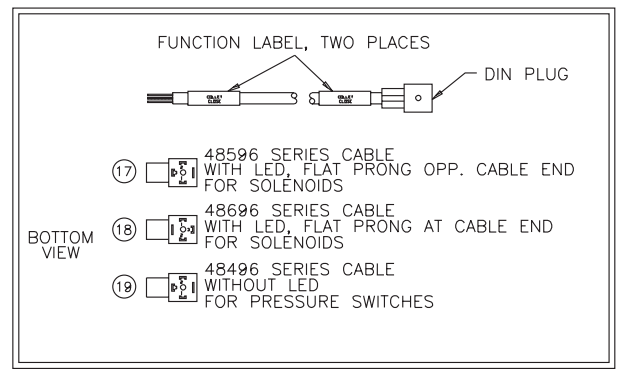
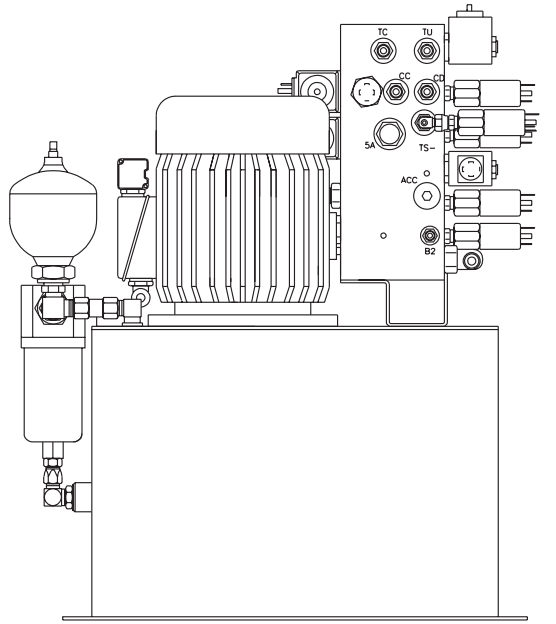
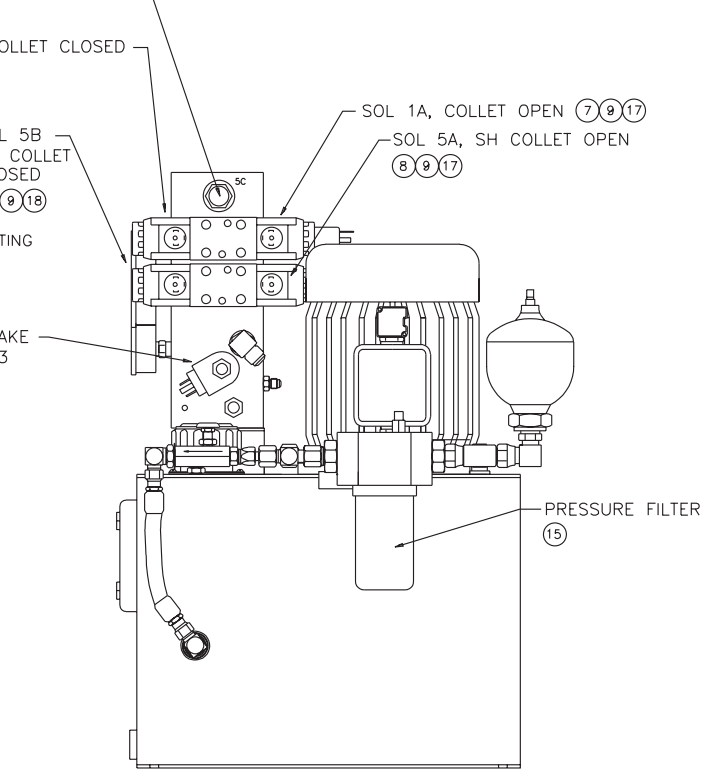
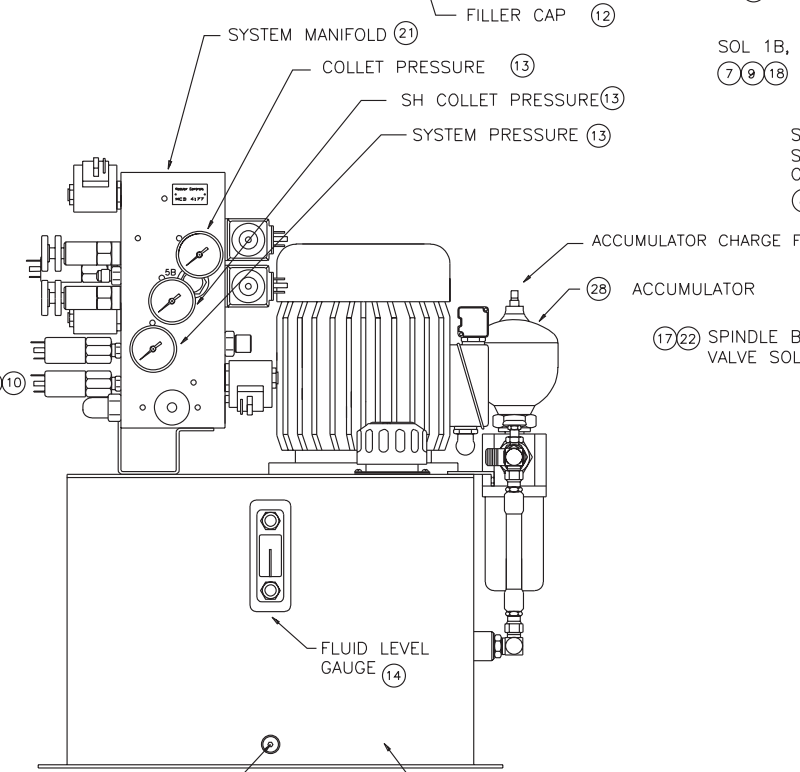
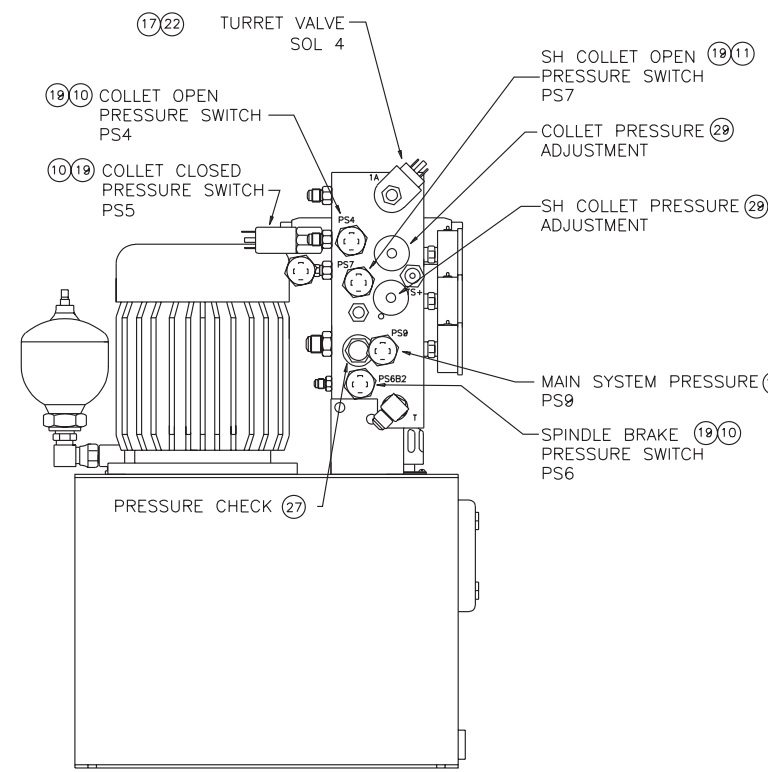
PART NUMBER
SGA0000133BSCE

SHEET
2 of 3

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

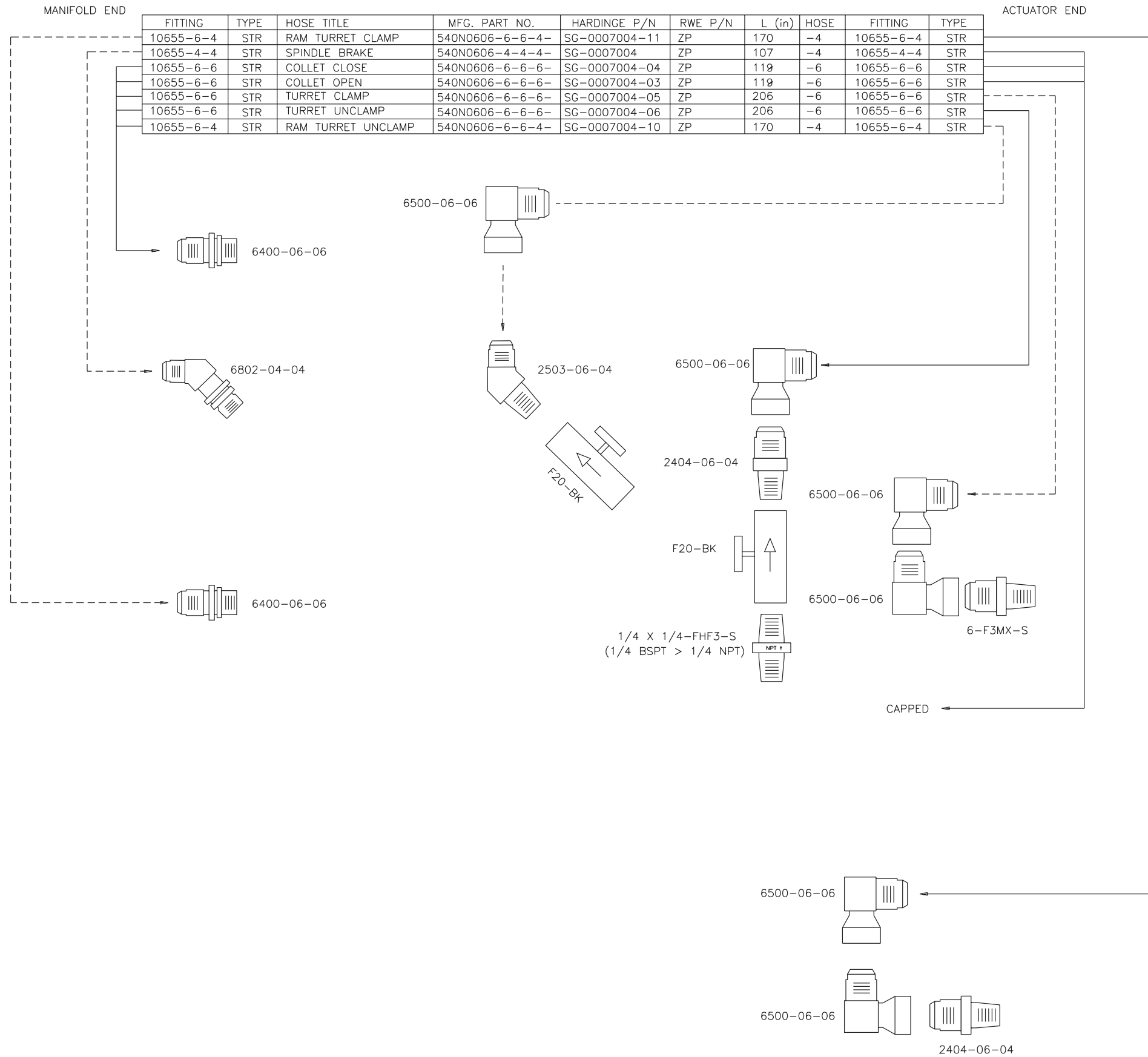


ITM	QTY	RWE DESCRIPTION	HARDINGE PART NO.
1	1	RWE 23997 RESERVOIR	
2	1	RWE 39698 RESERVOIR TOP	
3	-	-	
4	1	NORTHMAN 1HP 3PH 230 VAC	
5	-	-	
6	1	NORTHMAN VPVCG-F30/7.8-A2-01	
7	1	VICKERS DG4V3S-2N-MUH5-60	VL 0003048CCDV
8	1	VICKERS DG4V3S-6C-MUH5-60	CL 000304806
9	-	-	
10	4	CCS 6710 P34 60 RISING	CSA001173602
11	-	-	
12	1	LENZ FCS-537	CL 0000537
13	3	LENZ AFC-1M-20RC GAUGE	
14	1	LDI G1615-03-A-1 SIGHT GAUGE	SG 0011537
15	1	PALL HH9020A12KNRBPT	SG 001077902
16	1	DELTRON FM620-SK	
17	6	48596-C-00-048 CABLE	
18	2	48696-C-00-048 CABLE	
19	5	48496-C-00-048 CABLE	
20	1	CAROL 95255	
21	1	MODULAR CONTROLS MCD-6618	
22	2	MODULAR CONTROLS SV1-10-4-0-24DG	CL 000304807
23	-	-	
24	-	-	
25	3	MODULAR CONTROLS SPC2-10-P-0-25	CS 001145207
26	-	-	
27	1	MODULAR CONTROLS CV1-10-P-0-5	
28	1	OILAIR 1H-60-2-100-3	SG 0011614
29	1	MODULAR CONTROLS PRV1-4044	
30	1	MUR 23-030 SURGE SUPPRESSOR	

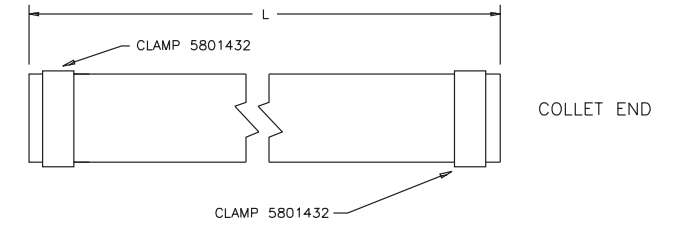


NAME: HYDRAULIC BASE UNIT LAYOUT, BALLSCREW, CEMARK
 PART NUMBER: SGA0000133BSCE
 SHEET: 3 of 3

Hydraulic Unit, Machine with Big Bore Spindle and Ram Turret, CE Mark



HOSE TITLE	MFG. PART NO.	HARDINGE PART NO.	L (in)	HOSE
COLLET DRAIN	H090-G 140-0280-100	SG-0007004-12	108	-16

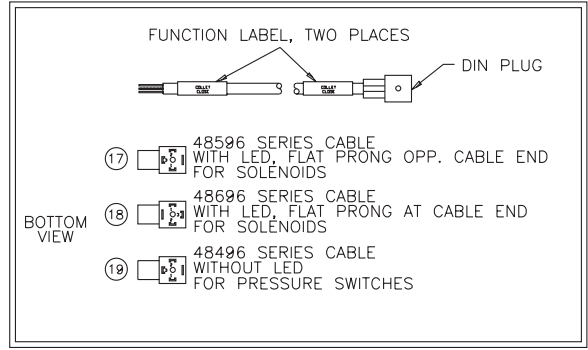
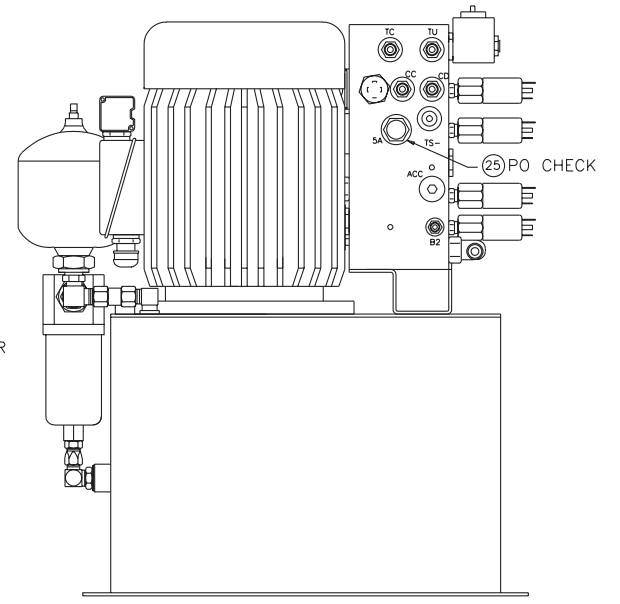
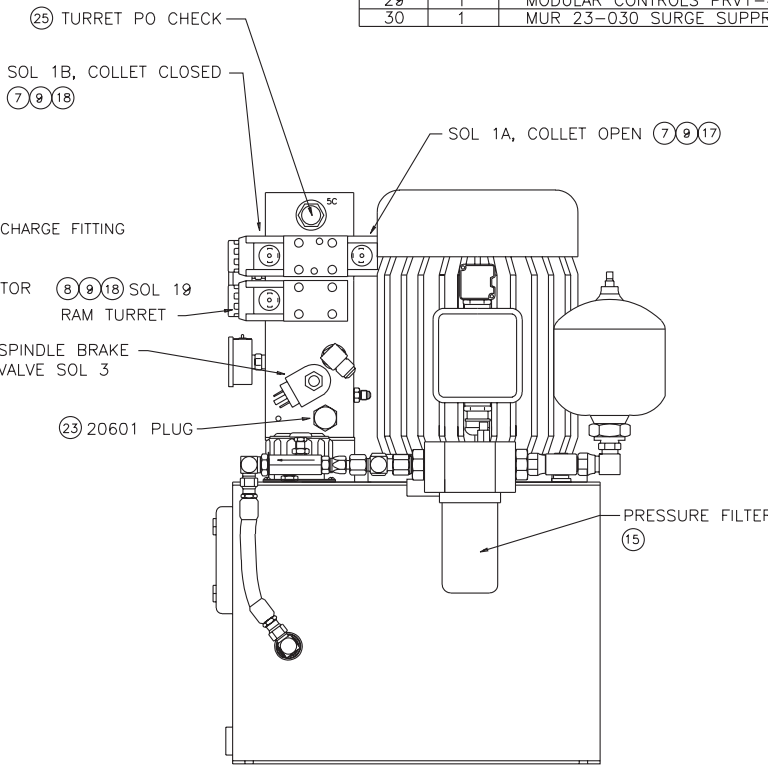
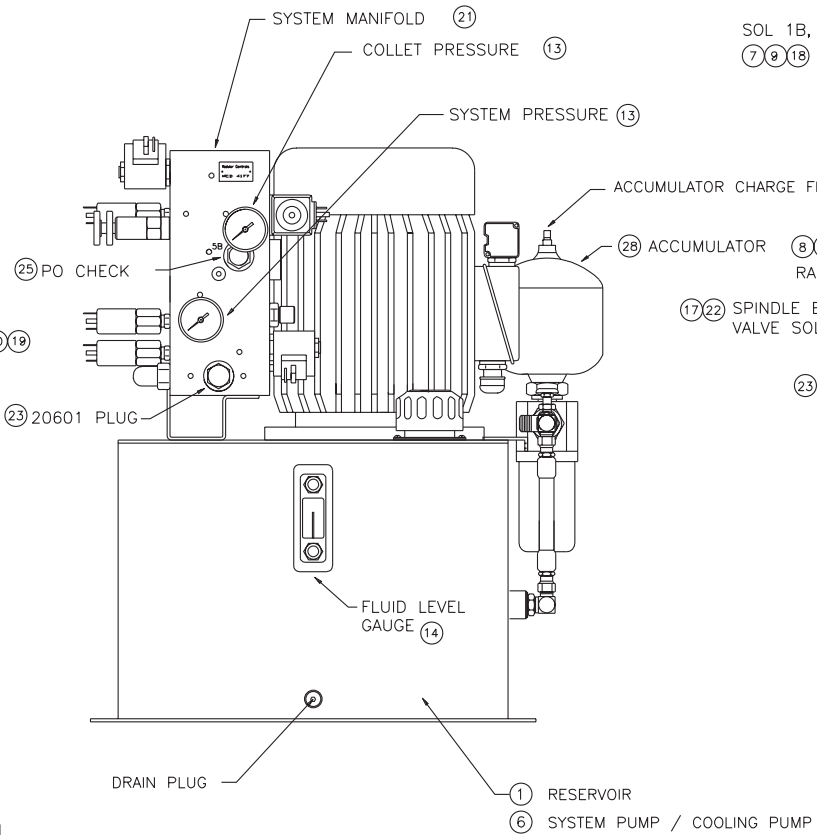
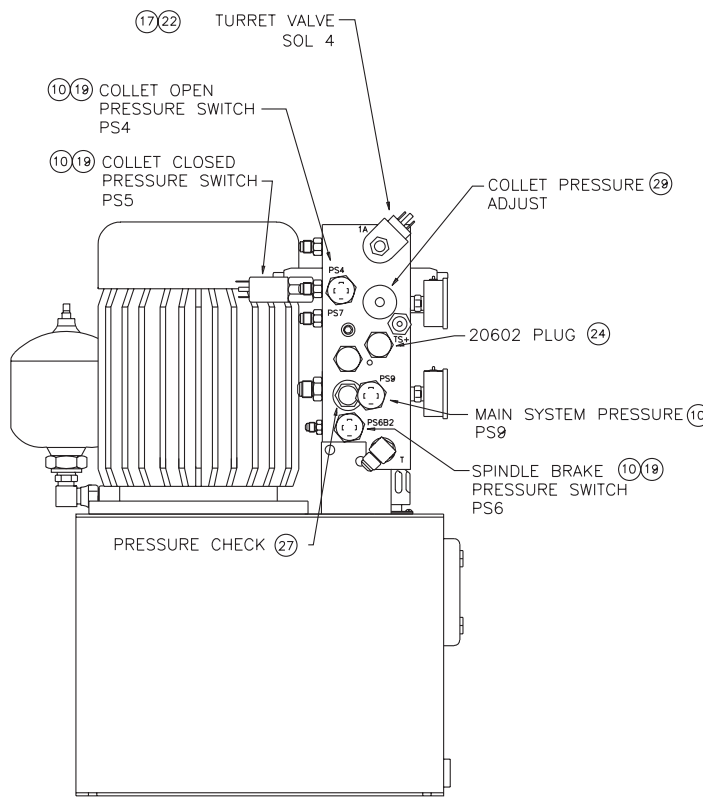
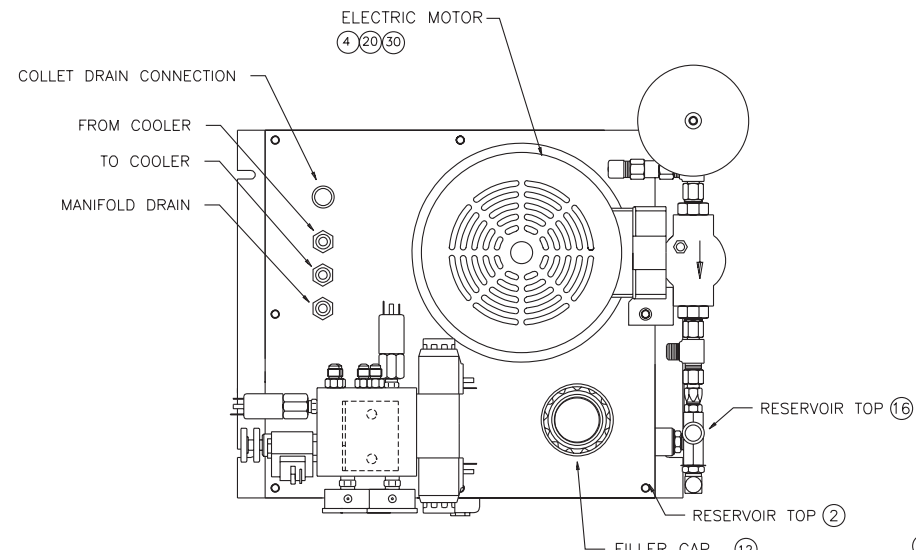


NAME: HYDRAULIC HOSE ASSY
 RAM TURRET/BIG BORE/CE

PART NUMBER: SGA0000133RBCE
 SHEET: 2 OF 3

Hydraulic Unit, Machine with Big Bore Spindle and Ram Turret, CE Mark

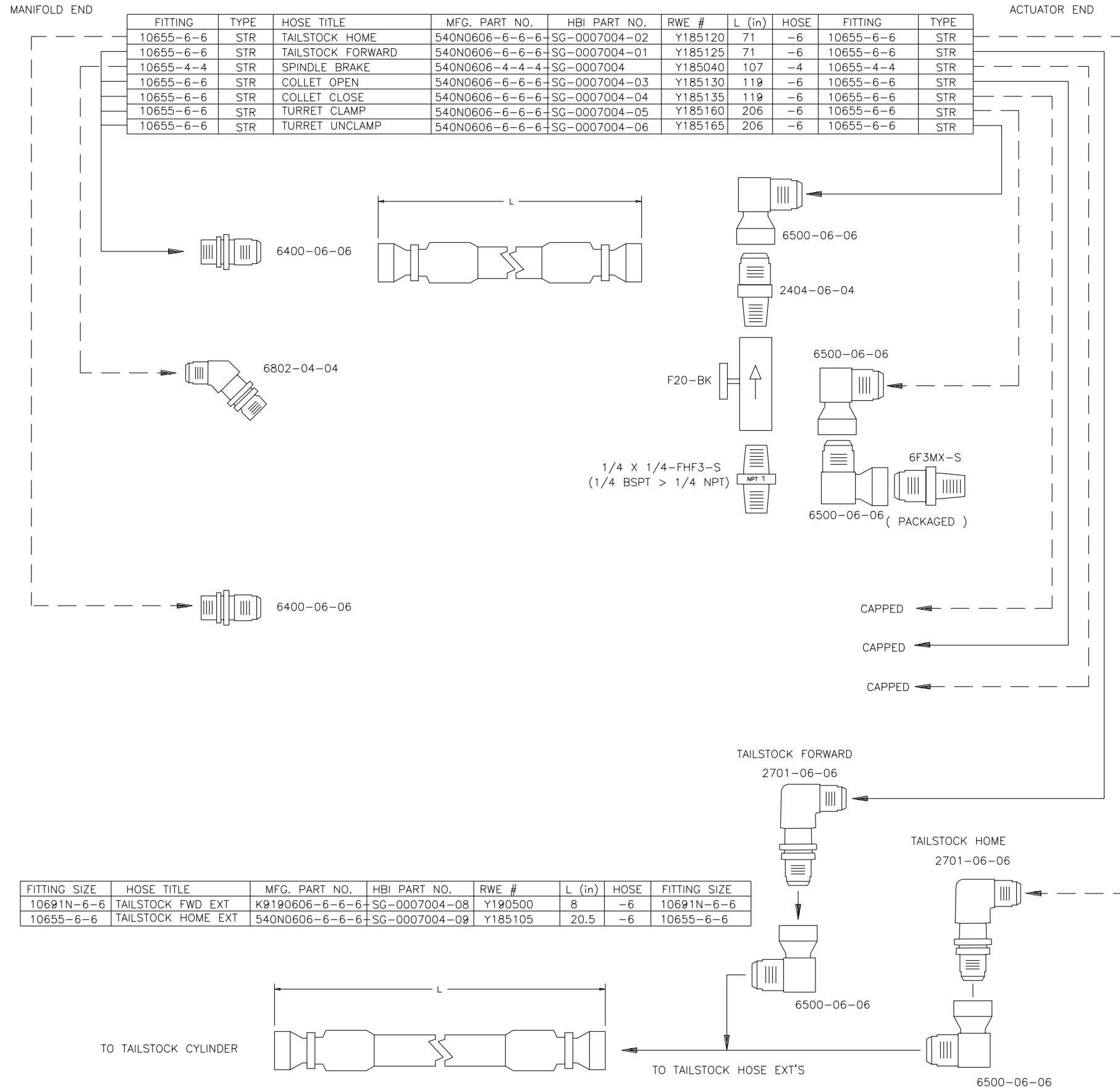
ITM	QTY	RWE DESCRIPTION	HARDINGE PART NO.
1	1	RWE 23997 RESERVOIR	
2	1	RWE 54898 RESERVOIR TOP	
3	-	-	
4	1	NORTHMAN 3HP 3PH 230 VAC	
5	-	-	
6	1	NORTHMAN VPVCG-F30/7.8-A3-01	
7	1	VICKERS DG4V3S-2N-MUH5-60	VL 0003048CCDV
8	1	VICKERS DG4V3S-6C-MUH5-60	CL 000304806
9	8	MOUNTING BOLTS 10-24x1-1/4	
10	4	CCS 6710 P34 60 RISING	CSA001173602
11	-	-	
12	1	LENZ FCS-537	CL 0000537
13	3	LENZ AFC-1M-20RC GAUGE	
14	1	LDI G1615-03-A-1 SIGHT GAUGE	SG 0011537
15	1	PALL HH020A12KNRBPT	SG 001077902
16	1	DELTRON FM620-SK	
17	6	48596-C-00-048 CABLE	
18	2	48696-C-00-048 CABLE	
19	5	48496-C-00-048 CABLE	
20	1	CAROL 95255	
21	1	MODULAR CONTROLS MCD-6618	
22	2	MODULAR CONTROLS SV1-10-4-0-24DG	CL 000304807
23	2	MODULAR CONTROLS 20601 PLUG	
24	1	MODULAR CONTROLS 20602 PLUG	
25	3	MODULAR CONTROLS SPC2-10-P-0-25	CS 001145207
26	-	-	
27	1	MODULAR CONTROLS CV1-10-P-0-5	
28	1	OILAIR 1H-60-2-100-3	SG 0011614
29	1	MODULAR CONTROLS PRV1-4044	
30	1	MUR 23-030 SURGE SUPPRESSOR	



NAME: HYDRAULIC UNIT
RAM TURRET/BIG BORE/CE

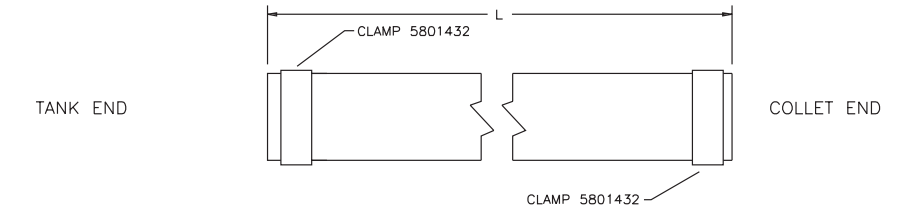
PART NUMBER: SGA0000133RBCE
SHEET: 3 OF 3

Hydraulic Unit, Machine with Big Bore Spindle, CE Mark



FITTING	TYPE	HOSE TITLE	MFG. PART NO.	HBI PART NO.	RWE #	L (in)	HOSE	FITTING	TYPE
10655-6-6	STR	TAILSTOCK HOME	540N0606-6-6-6	SG-0007004-02	Y185120	71	-6	10655-6-6	STR
10655-6-6	STR	TAILSTOCK FORWARD	540N0606-6-6-6	SG-0007004-01	Y185125	71	-6	10655-6-6	STR
10655-4-4	STR	SPINDLE BRAKE	540N0606-4-4-4	SG-0007004	Y185040	107	-4	10655-4-4	STR
10655-6-6	STR	COLLET OPEN	540N0606-6-6-6	SG-0007004-03	Y185130	119	-6	10655-6-6	STR
10655-6-6	STR	COLLET CLOSE	540N0606-6-6-6	SG-0007004-04	Y185135	119	-6	10655-6-6	STR
10655-6-6	STR	TURRET CLAMP	540N0606-6-6-6	SG-0007004-05	Y185160	206	-6	10655-6-6	STR
10655-6-6	STR	TURRET UNCLAMP	540N0606-6-6-6	SG-0007004-06	Y185165	206	-6	10655-6-6	STR

HOSE TITLE	MFG. PART NO.	HARDINGE PART NO.	L (in)	HOSE
COLLET DRAIN	H090-G 140-0280-100	SG-0007004-12	108	-16



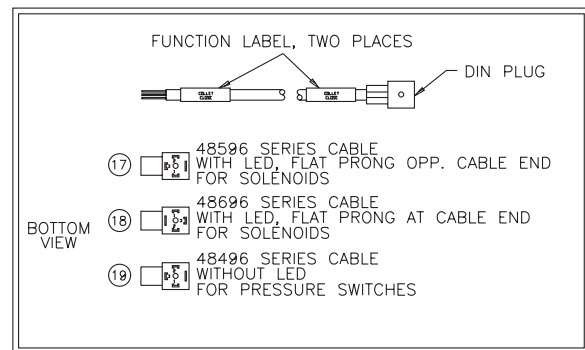
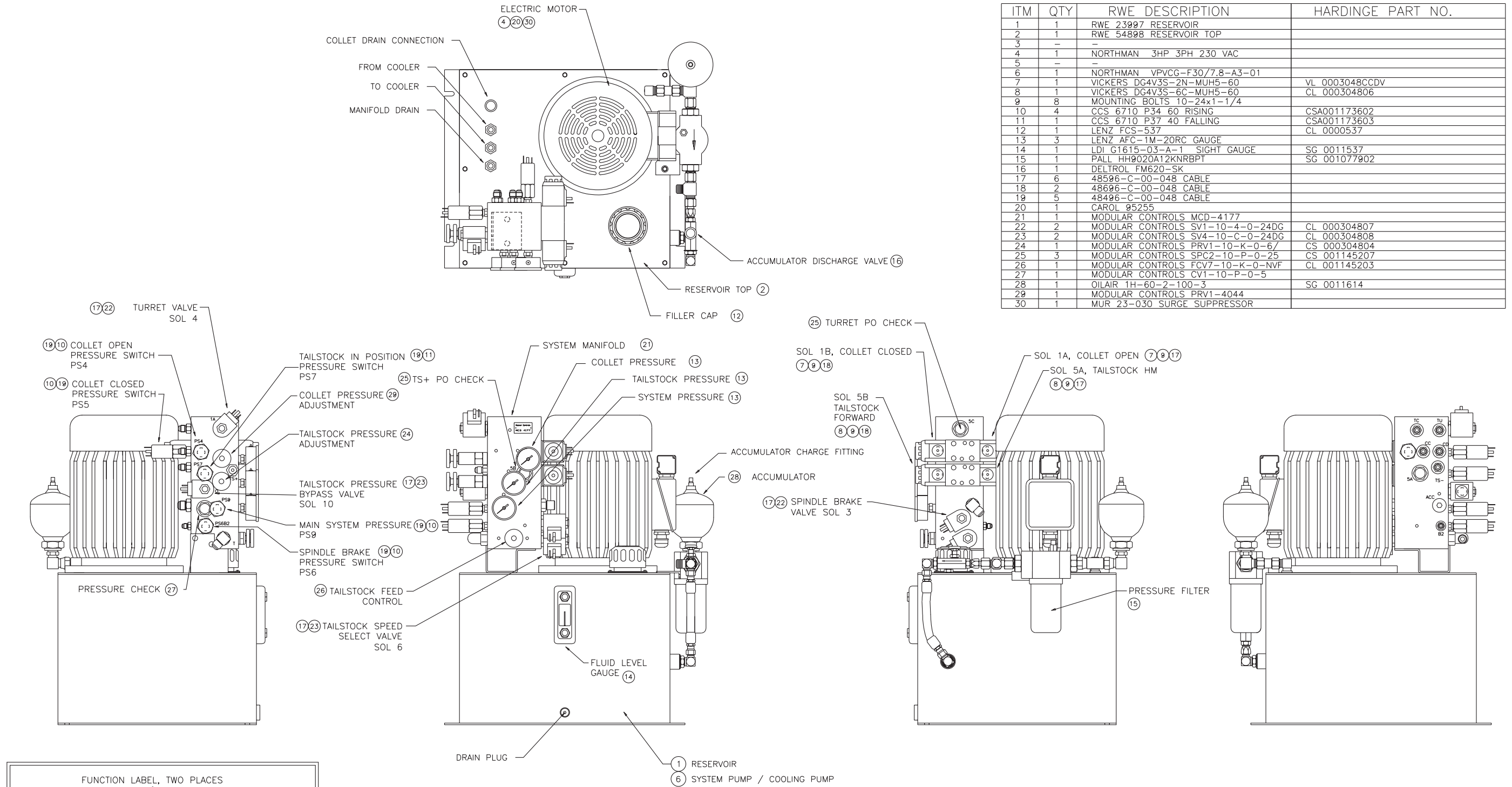
FITTING SIZE	HOSE TITLE	MFG. PART NO.	HBI PART NO.	RWE #	L (in)	HOSE	FITTING SIZE
10691N-6-6	TAILSTOCK FWD EXT	K9190606-6-6-6	SG-0007004-08	Y190500	8	-6	10691N-6-6
10655-6-6	TAILSTOCK HOME EXT	540N0606-6-6-6	SG-0007004-09	Y185105	20.5	-6	10655-6-6

NAME
HYDRAULIC UNIT
BIG BORE CEMARK

PART NUMBER
SGA0000133BBCE
SHEET 2 OF 3

Hydraulic Unit, Machine with Big Bore Spindle, CE Mark

ITM	QTY	RWE DESCRIPTION	HARDINGE PART NO.
1	1	RWE 23997 RESERVOIR	
2	1	RWE 54898 RESERVOIR TOP	
3	-	-	
4	1	NORTHMAN 3HP 3PH 230 VAC	
5	-	-	
6	1	NORTHMAN VPVCG-F30/7.8-A3-01	
7	1	VICKERS DG4V3S-2N-MUH5-60	VL 0003048CCDV
8	1	VICKERS DG4V3S-6C-MUH5-60	CL 000304806
9	8	MOUNTING BOLTS 10-24x1-1/4	
10	4	CCS 6710 P34 60 RISING	CSA001173602
11	1	CCS 6710 P37 40 FALLING	CSA001173603
12	1	LENZ FCS-537	CL 0000537
13	3	LENZ AFC-1M-20RC GAUGE	
14	1	LDI G1615-03-A-1 SIGHT GAUGE	SG 0011537
15	1	PALL HH9020A12KNRBT	SG 001077902
16	1	DELTRON FM620-SK	
17	6	48596-C-00-048 CABLE	
18	2	48696-C-00-048 CABLE	
19	5	48496-C-00-048 CABLE	
20	1	CAROL 95255	
21	1	MODULAR CONTROLS MCD-4177	
22	2	MODULAR CONTROLS SV1-10-4-0-24DG	CL 000304807
23	2	MODULAR CONTROLS SV4-10-C-0-24DG	CL 000304808
24	1	MODULAR CONTROLS PRV1-10-K-0-6/	CS 000304804
25	3	MODULAR CONTROLS SPC2-10-P-0-25	CS 001145207
26	1	MODULAR CONTROLS FCV7-10-K-0-NVF	CL 001145203
27	1	MODULAR CONTROLS CV1-10-P-0-5	
28	1	OILAIR 1H-60-2-100-3	SG 0011614
29	1	MODULAR CONTROLS PRV1-4044	
30	1	MUR 23-030 SURGE SUPPRESSOR	

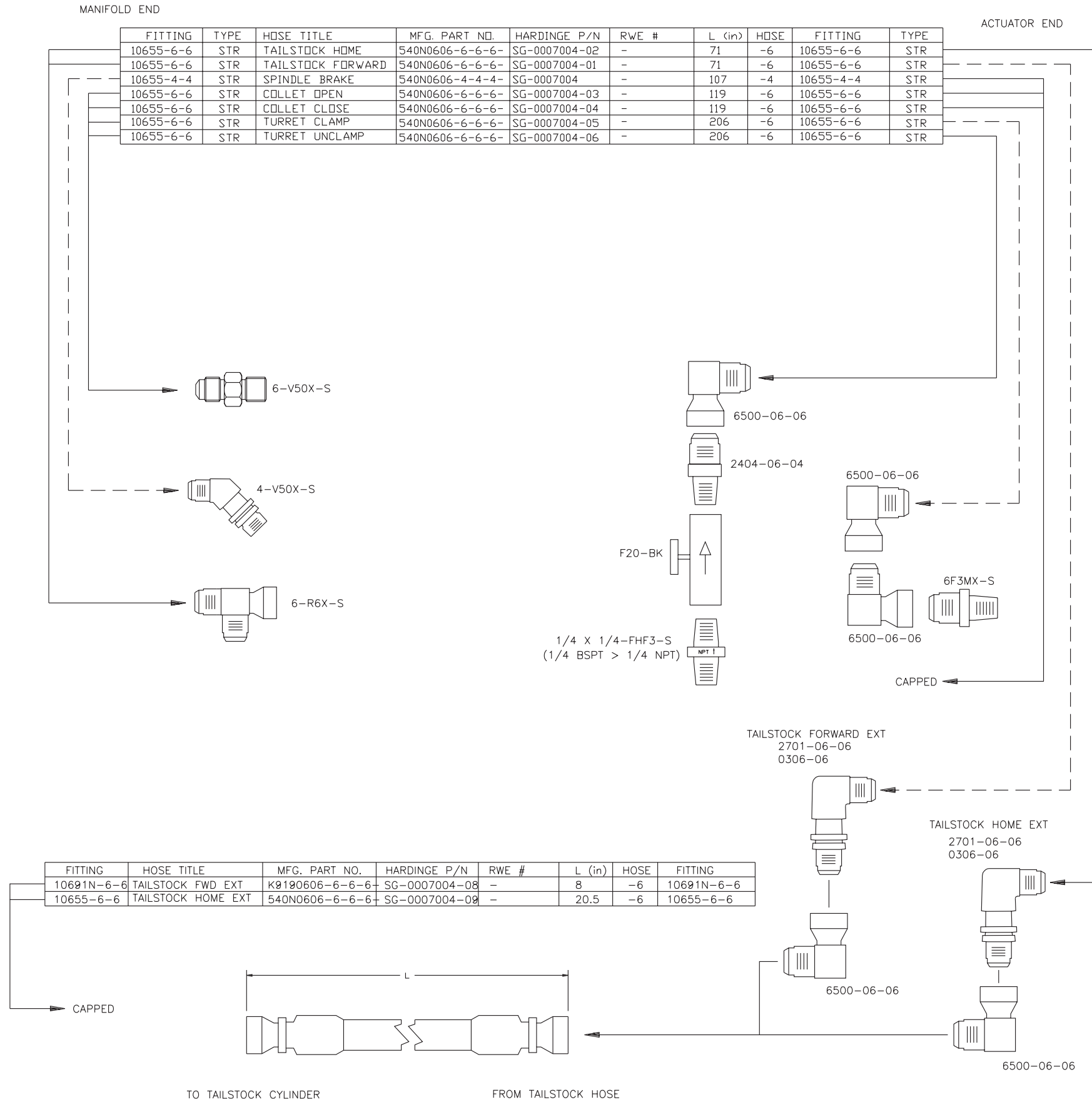


NAME: HYDRAULIC UNIT
BIG BORE CEMARK

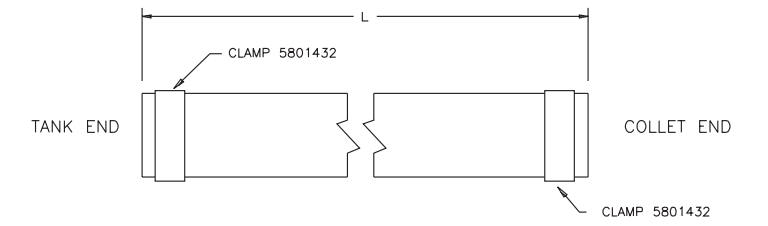
PART NUMBER: SGA0000133BBCE

SHEET: 3 OF 3

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

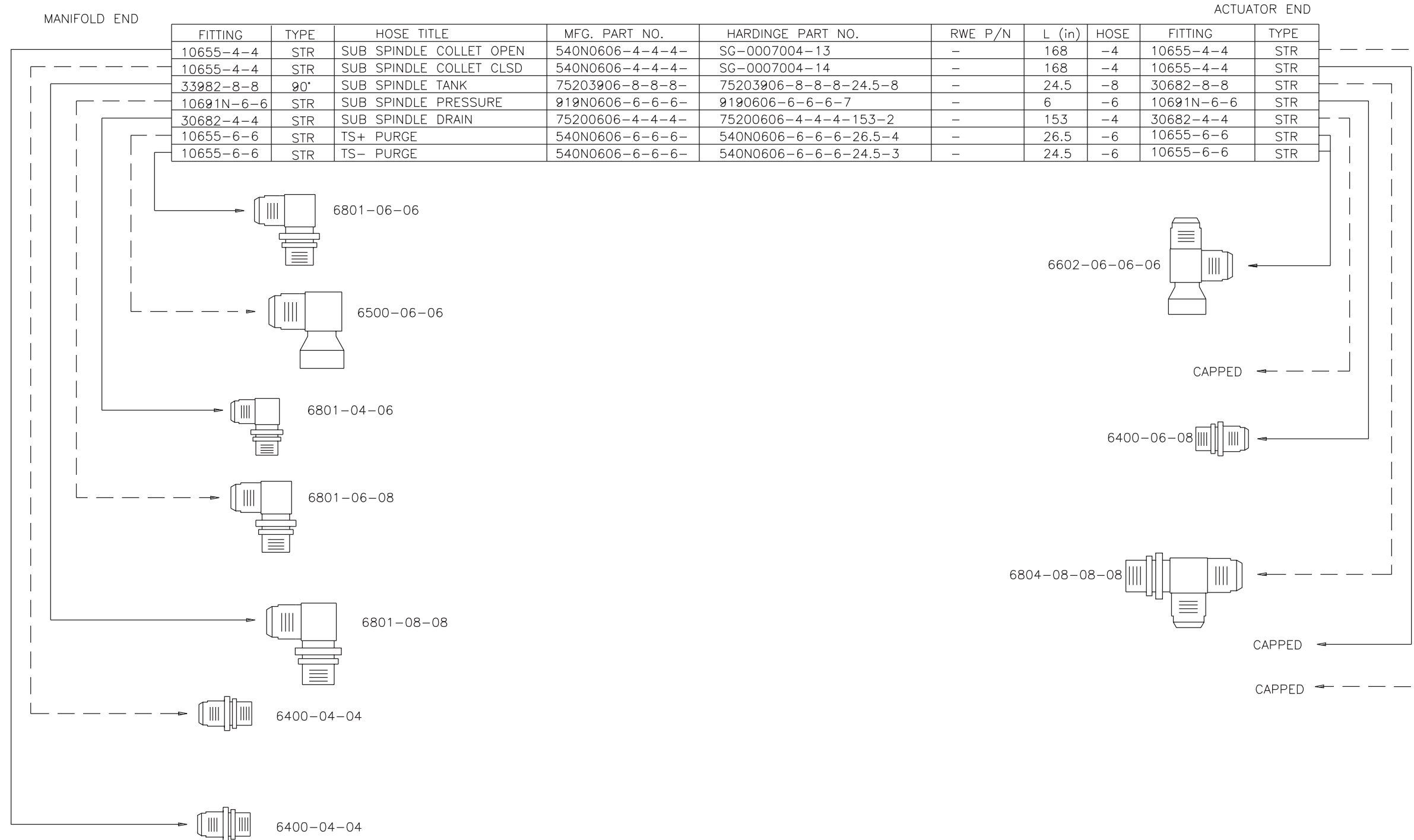


HOSE TITLE	MFG. PART NO.	HARDINGE P/N	L (in)	HOSE
COLLET DRAIN	H090-G 140-0280-100	-	168	-16



NAME: HYDRAUJIC HOSE ASSEMBLY, SUBSPINDLE, CEMARK
 PART NUMBER: SGA0000133SHCE
 SHEET: 2 of 5

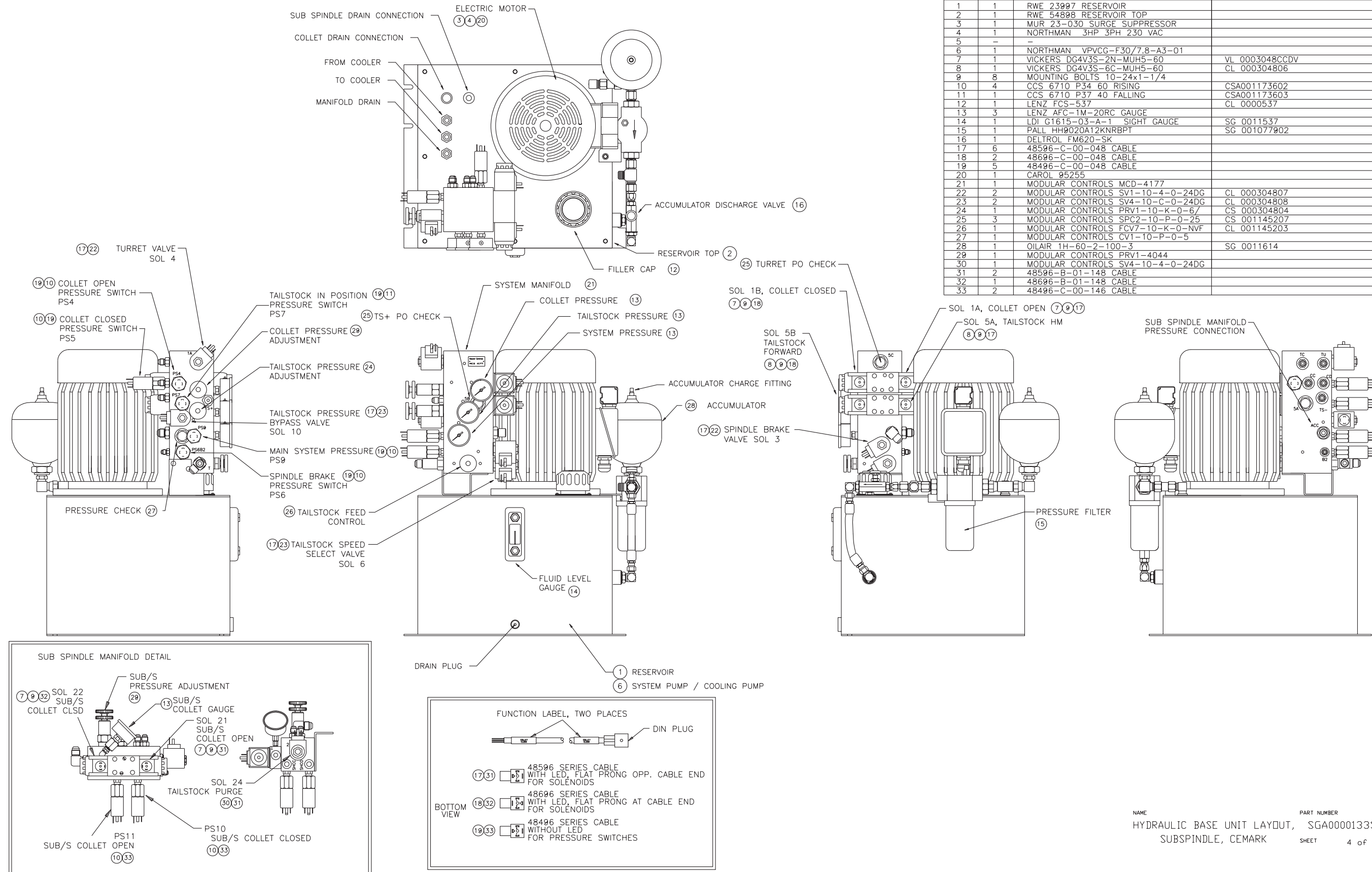
Hydraulic Unit, Machine with Hydraulic Sub-Spindle, CE Mark



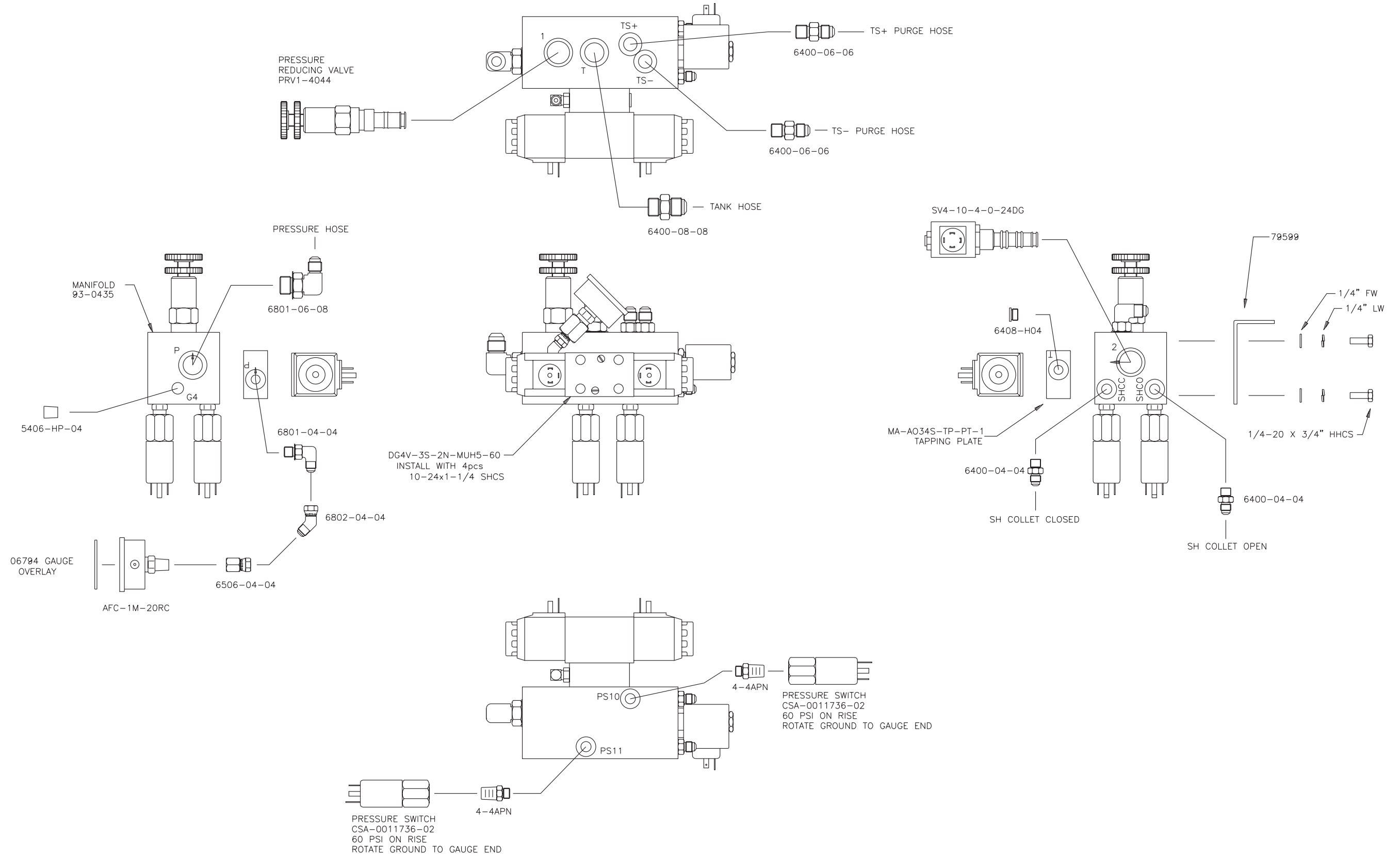
NAME
HYDRAULIC HOSE ASSEMBLY
SUBSPINDLE, CEMARK

PART NUMBER
SGA0000133SHCE
SHEET 3 of 5

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

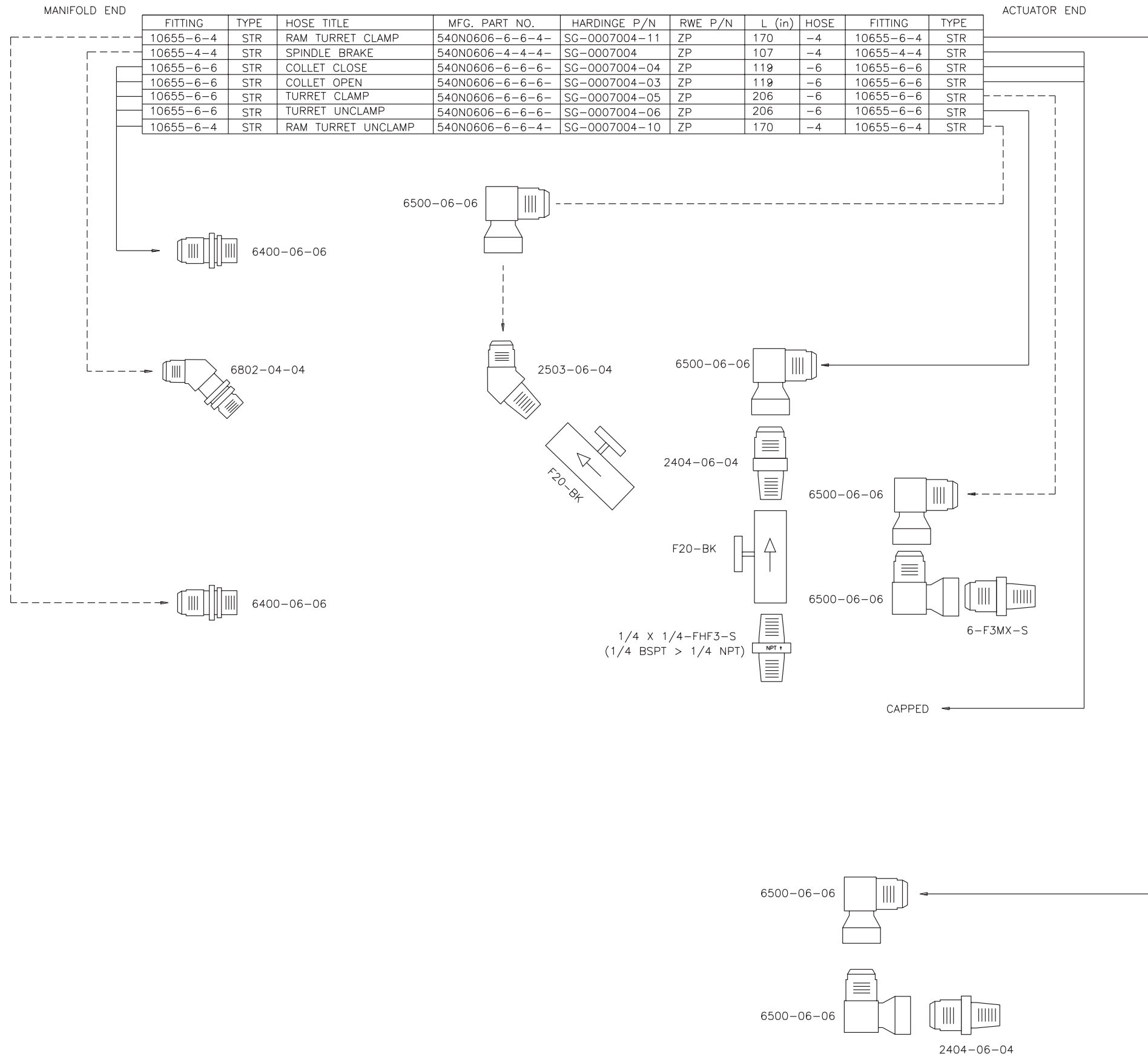


Hydraulic Unit, Machine with Hydraulic Sub-Spindle, CE Mark



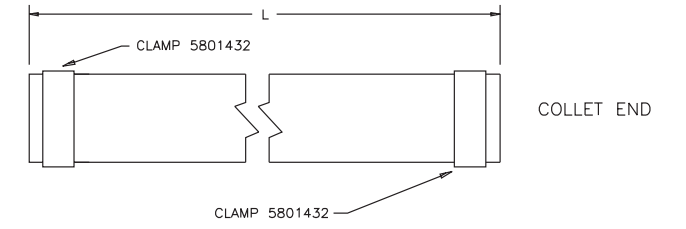
NAME
 HYDRAULIC MANIFOLD ASS'Y,
 SUBSPINDLE, CEMARK
 PART NUMBER
 SGA0000133SHCE
 SHEET 5 of 5

Hydraulic Unit, Machine with Ram Turret, CE Mark



FITTING	TYPE	HOSE TITLE	MFG. PART NO.	HARDINGE P/N	RWE P/N	L (in)	HOSE	FITTING	TYPE
10655-6-4	STR	RAM TURRET CLAMP	540N0606-6-6-4-	SG-0007004-11	ZP	170	-4	10655-6-4	STR
10655-4-4	STR	SPINDLE BRAKE	540N0606-4-4-4-	SG-0007004	ZP	107	-4	10655-4-4	STR
10655-6-6	STR	COLLET CLOSE	540N0606-6-6-6-	SG-0007004-04	ZP	119	-6	10655-6-6	STR
10655-6-6	STR	COLLET OPEN	540N0606-6-6-6-	SG-0007004-03	ZP	119	-6	10655-6-6	STR
10655-6-6	STR	TURRET CLAMP	540N0606-6-6-6-	SG-0007004-05	ZP	206	-6	10655-6-6	STR
10655-6-6	STR	TURRET UNCLAMP	540N0606-6-6-6-	SG-0007004-06	ZP	206	-6	10655-6-6	STR
10655-6-4	STR	RAM TURRET UNCLAMP	540N0606-6-6-4-	SG-0007004-10	ZP	170	-4	10655-6-4	STR

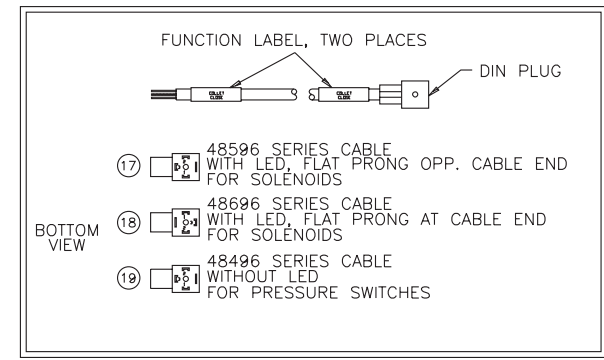
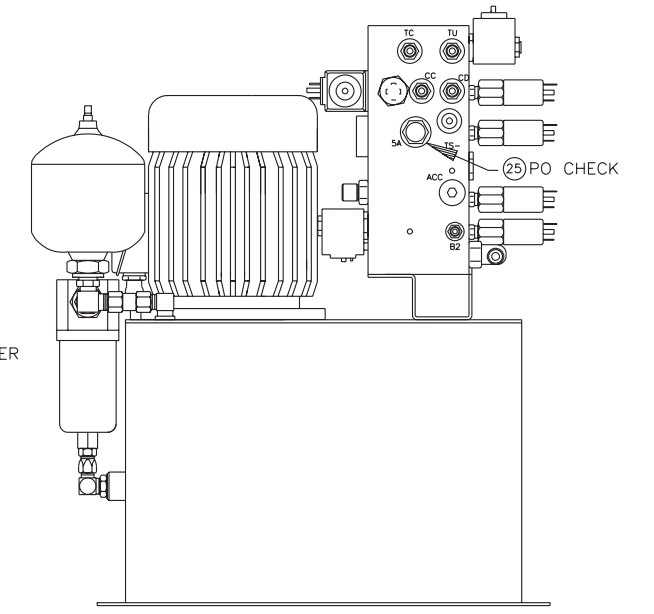
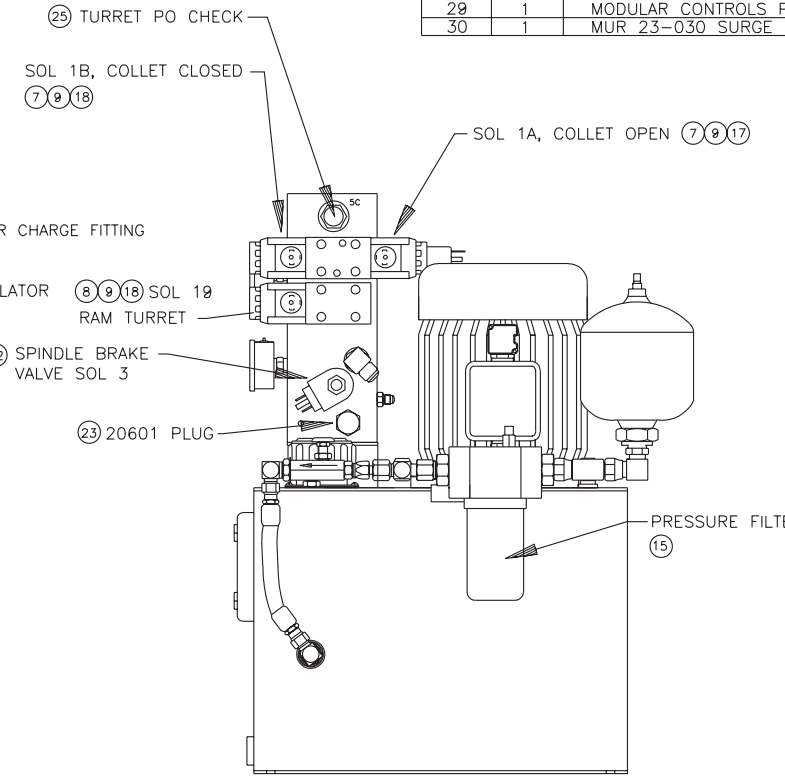
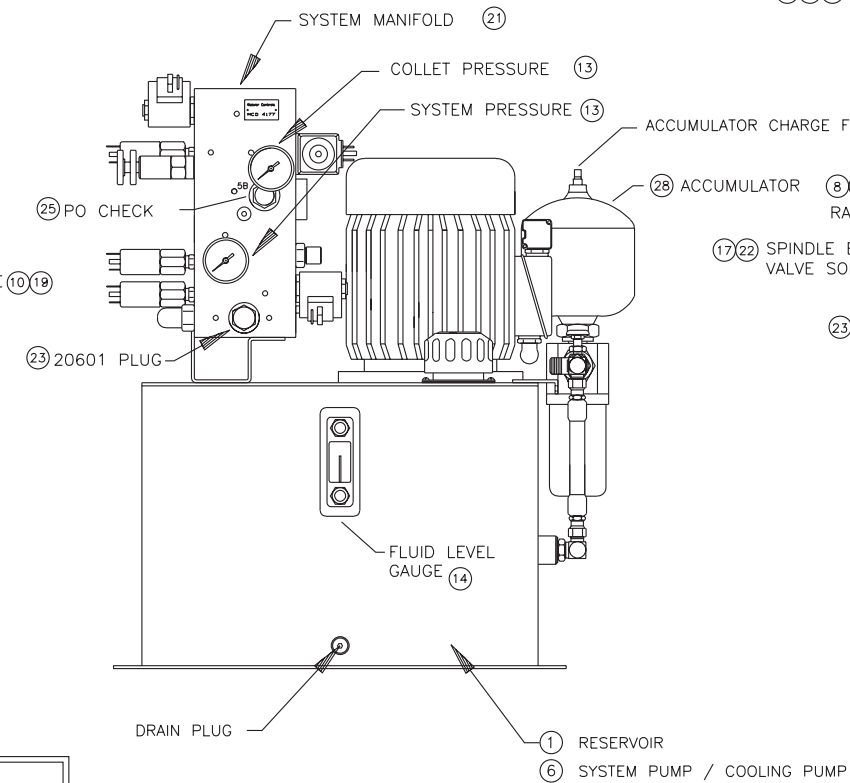
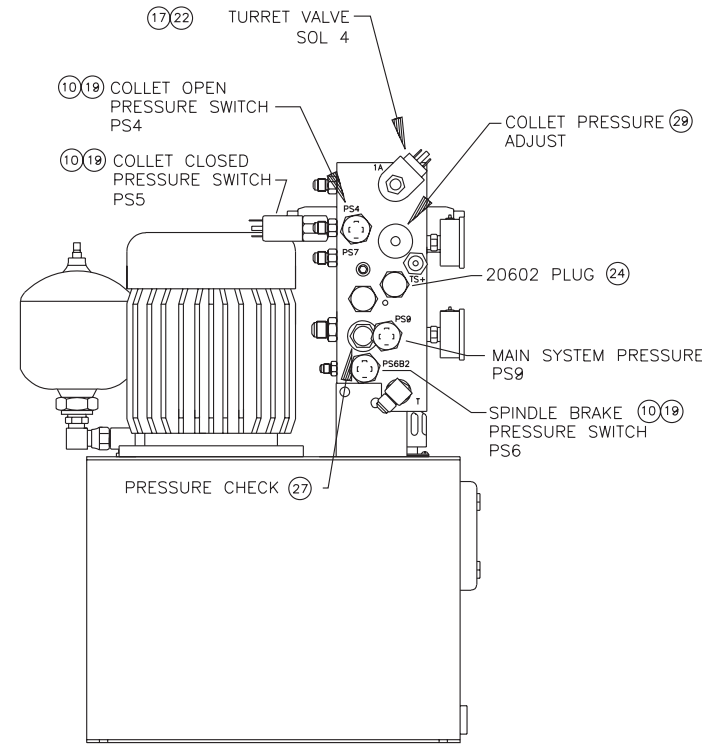
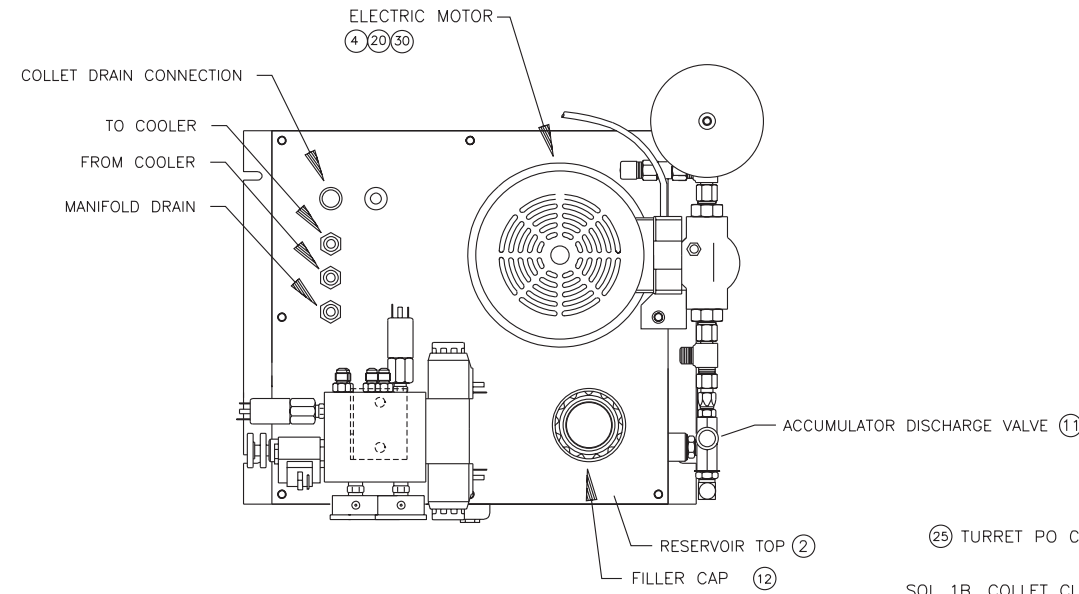
HOSE TITLE	MFG. PART NO.	HARDINGE PART NO.	L (in)	HOSE
COLLET DRAIN	H090-G 140-0280-100	SG-0007004-12	108	-16



NAME: HYDRAULIC HOSE ASSY
 RAM TURRET /CE
 PART NUMBER: SGA0000133RTCE
 SHEET: 2 OF 3

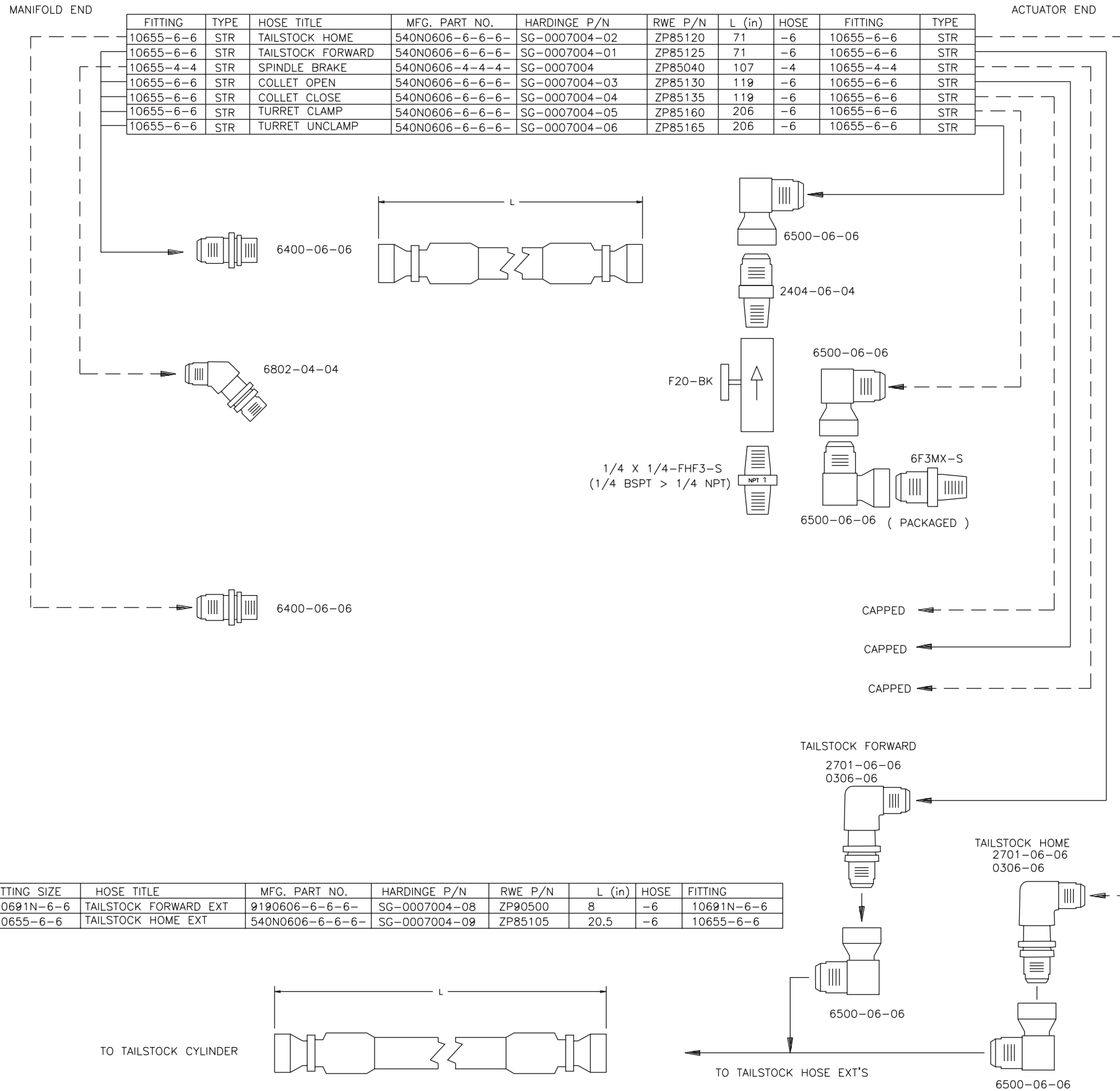
Hydraulic Unit, Machine with Ram Turret, CE Mark

ITM	QTY	RWE DESCRIPTION	HARDINGE PART NO.
1	1	RWE 23997 RESERVOIR	
2	1	RWE 39698 RESERVOIR TOP	
3	-	-	
4	1	NORTHMAN 1HP 3PH 230 VAC	
5	-	-	
6	1	NORTHMAN VPVCG-F30/7,8-A2-01	
7	1	VICKERS DG4V3S-2N-MUH5-60	VL 0003048CCDV
8	1	VICKERS DG4V3S-6C-MUH5-60	CL 000304806
9	8	MOUNTING BOLTS 10-24x1-1/4	
10	4	CCS 6710 P34 60 RISING	CSA001173602
11	1	DELTRON FM620-SK	
12	1	LENZ FCS-537	CL 0000537
13	3	LENZ AFC-1M-20RC GAUGE	
14	1	LDI G1615-03-A-1 SIGHT GAUGE	SG 0011537
15	1	PALL HH9020A12KNRBPT	SG 001077902
16	-	-	
17	6	48596-C-00-048 CABLE	
18	2	48696-C-00-048 CABLE	
19	5	48496-C-00-048 CABLE	
20	1	CAROL 95255	
21	1	MODULAR CONTROLS MCD-6618	
22	2	MODULAR CONTROLS SV1-10-4-0-24DG	CL 000304807
23	2	MODULAR CONTROLS 20601 PLUG	
24	1	MODULAR CONTROLS 20602 PLUG	
25	3	MODULAR CONTROLS SPC2-10-P-0-25	CS 001145207
26	-	-	
27	1	MODULAR CONTROLS CV1-10-P-0-5	
28	1	OILAIR 1H-60-2-100-3	SG 0011614
29	1	MODULAR CONTROLS PRV1-4044	
30	1	MUR 23-030 SURGE SUPPRESSOR	

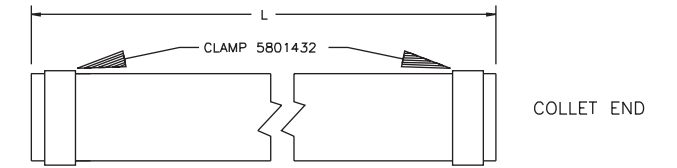


NAME: HYDRAULIC UNIT RAM TURRET/CE
 PART NUMBER: SGA0000133RTCE
 SHEET: 3 OF 3

Hydraulic Unit, Machine with Tailstock, CE Mark



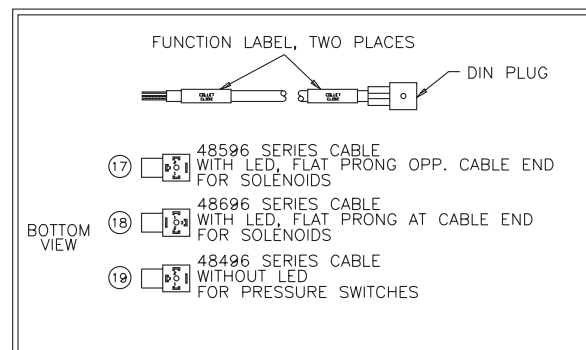
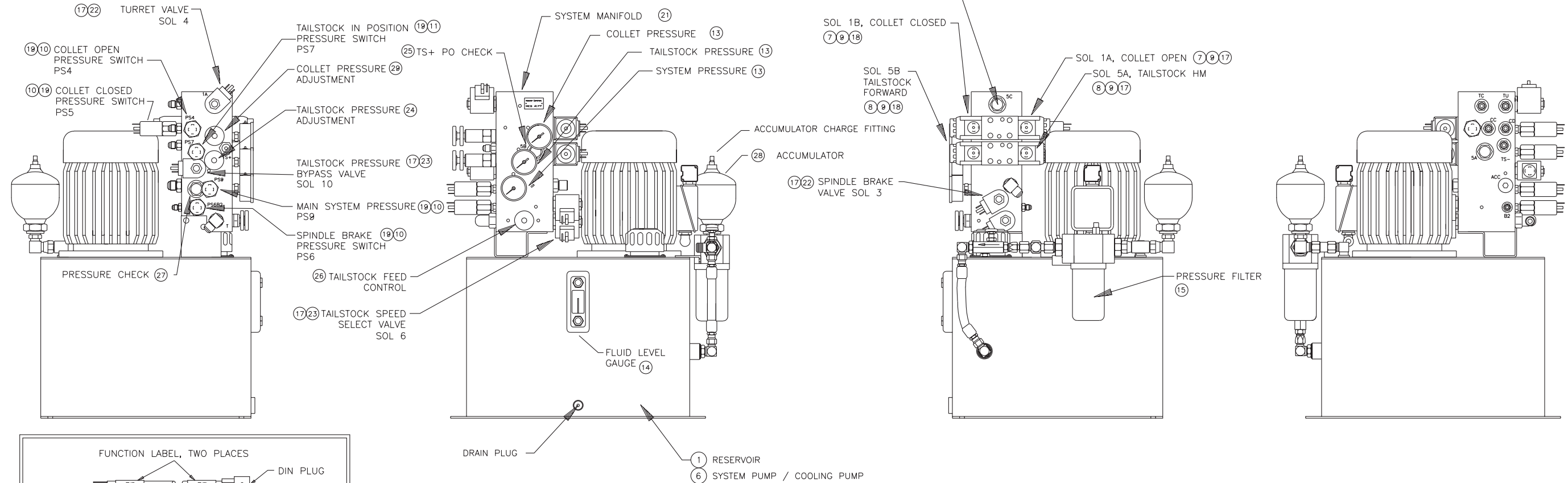
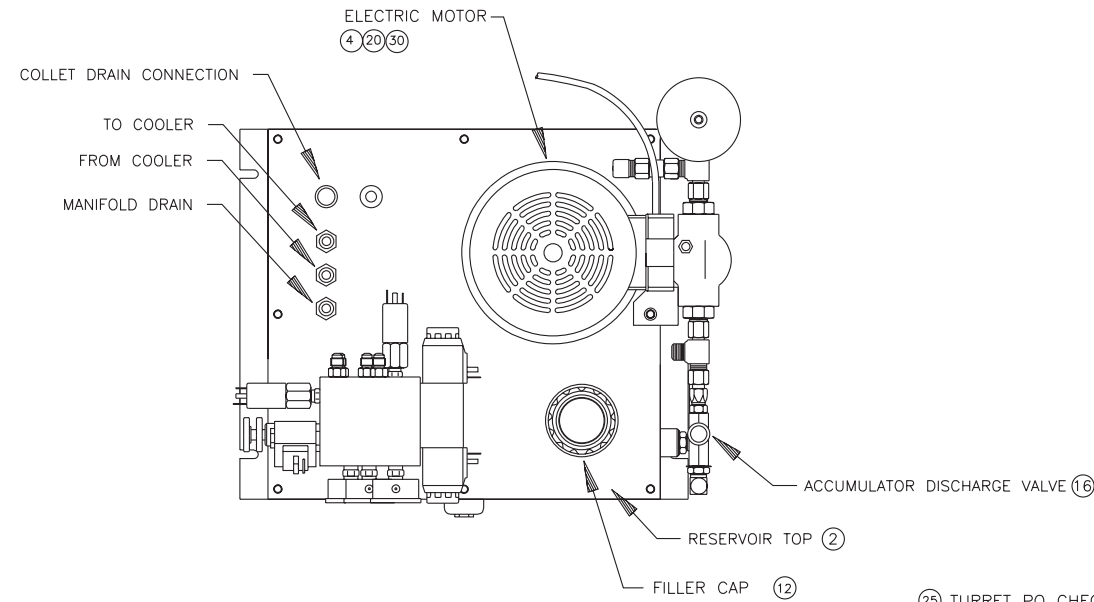
HOSE TITLE	MFG. PART NO.	HARDINGE PART NO.	L (IN)	HOSE
COLLET DRAIN	H090-G 140-0280-100	-----	108	-16



FITTING SIZE	HOSE TITLE	MFG. PART NO.	HARDINGE P/N	RWE P/N	L (in)	HOSE	FITTING
10691N-6-6	TAILSTOCK FORWARD EXT	9190606-6-6-6-	SG-0007004-08	ZP90500	8	-6	10691N-6-6
10655-6-6	TAILSTOCK HOME EXT	540N0606-6-6-6-	SG-0007004-09	ZP85105	20.5	-6	10655-6-6

Hydraulic Unit, Machine with Tailstock, CE Mark

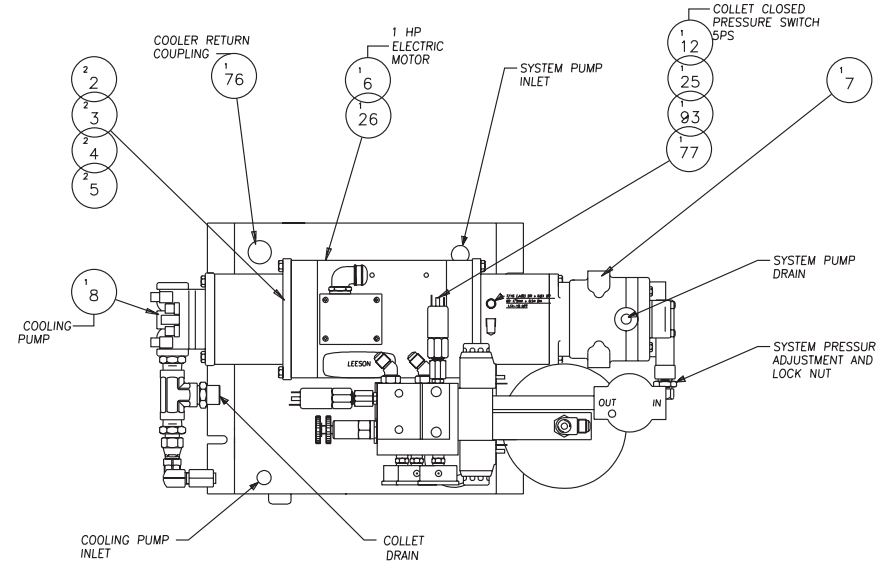
ITM	QTY	RWE DESCRIPTION	HARDINGE PART NO.
1	1	RWE 23997 RESERVOIR	
2	1	RWE 39698 RESERVOIR TOP	
3	-	-	
4	1	NORTHMAN 1HP 3PH 230 VAC	
5	-	-	
6	1	NORTHMAN VPVCG-F30/7.8-A2-01	
7	1	VICKERS DG4V3S-2N-MUH5-60	VL 0003048CDV
8	1	VICKERS DG4V3S-6C-MUH5-60	CL 000304806
9	8	MOUNTING BOLTS 10-24x1-1/4	
10	4	CCS 6710 P34 60 RISING	CSA001173602
11	1	CCS 6710 P37 40 FALLING	CSA001173603
12	1	LENZ FCS-537	CL 0000537
13	3	LENZ AFC-1M-20RC GAUGE	
14	1	LDI G1615-03-A-1 SIGHT GAUGE	SG 0011537
15	1	PALL HH020A12KNRBPT	SG 001077902
16	1	DELTRON FM620-SK	
17	6	48596-C-00-048 CABLE	
18	2	48696-C-00-048 CABLE	
19	5	48496-C-00-048 CABLE	
20	1	CAROL 95255	
21	1	MODULAR CONTROLS MCD-4177	
22	2	MODULAR CONTROLS SV1-10-4-0-24DG	CL 000304807
23	2	MODULAR CONTROLS SV4-10-C-0-24DG	CL 000304808
24	1	MODULAR CONTROLS PRV1-10-K-0-6/	CS 000304804
25	3	MODULAR CONTROLS SPC2-10-P-0-25	CS 001145207
26	1	MODULAR CONTROLS FCV7-10-K-0-NVF	CL 001145203
27	1	MODULAR CONTROLS CV1-10-P-0-5	
28	1	OILAIR 1H-60-2-100-3	SG 0011614
29	1	MODULAR CONTROLS PRV1-4044	
30	1	MUR 23-030 SURGE SUPPRESSOR	



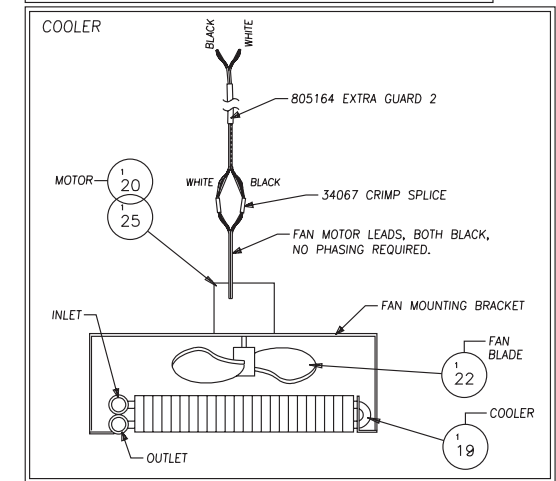
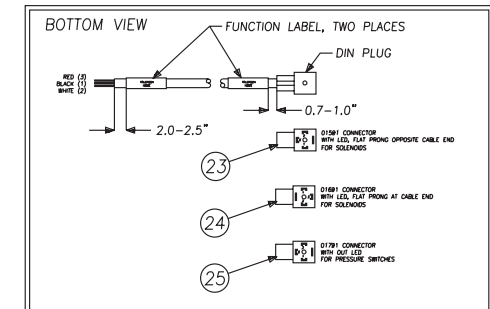
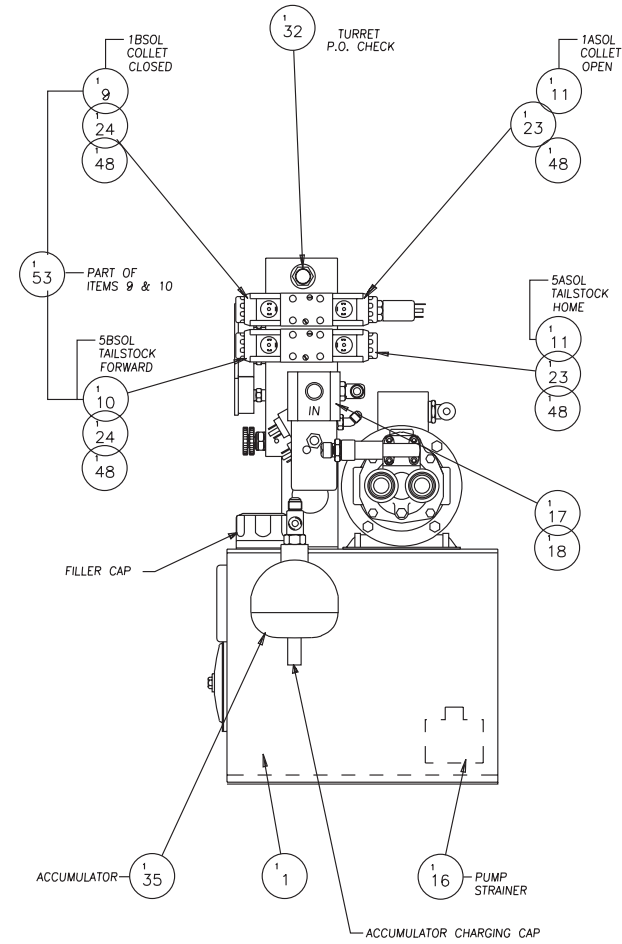
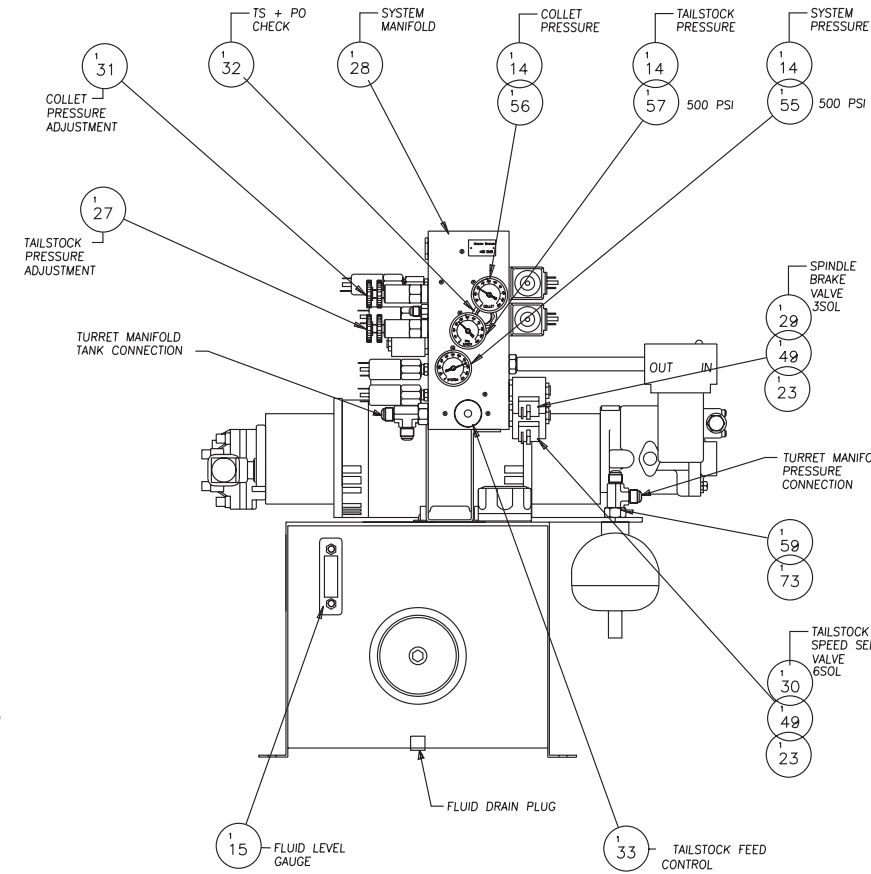
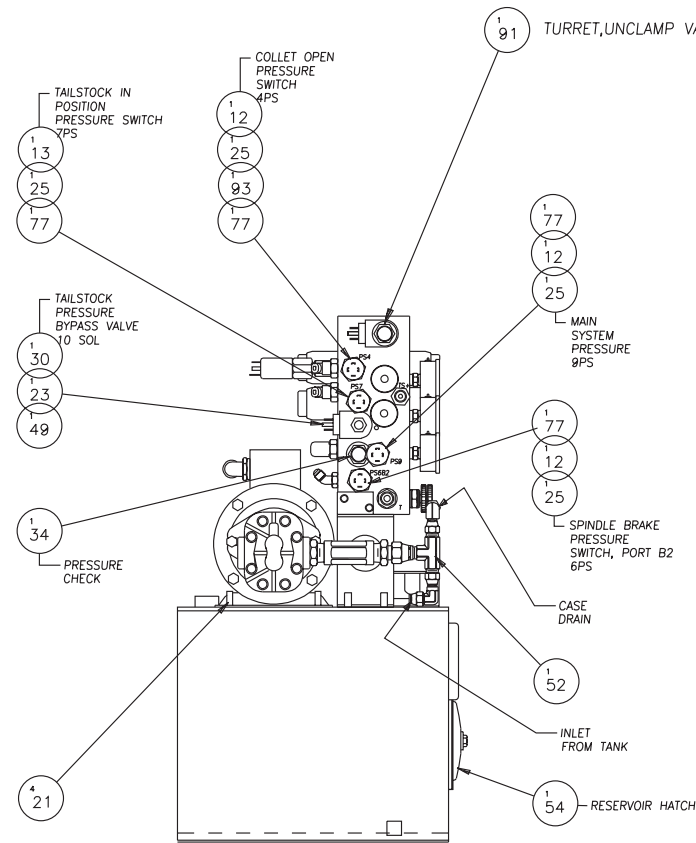
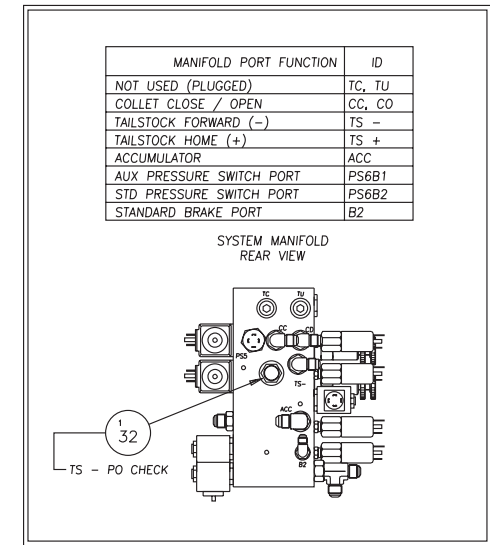
NAME
HYDRAULIC UNIT
CEMARK

PART NUMBER
SGA0000133CE
SHEET 3 of 3

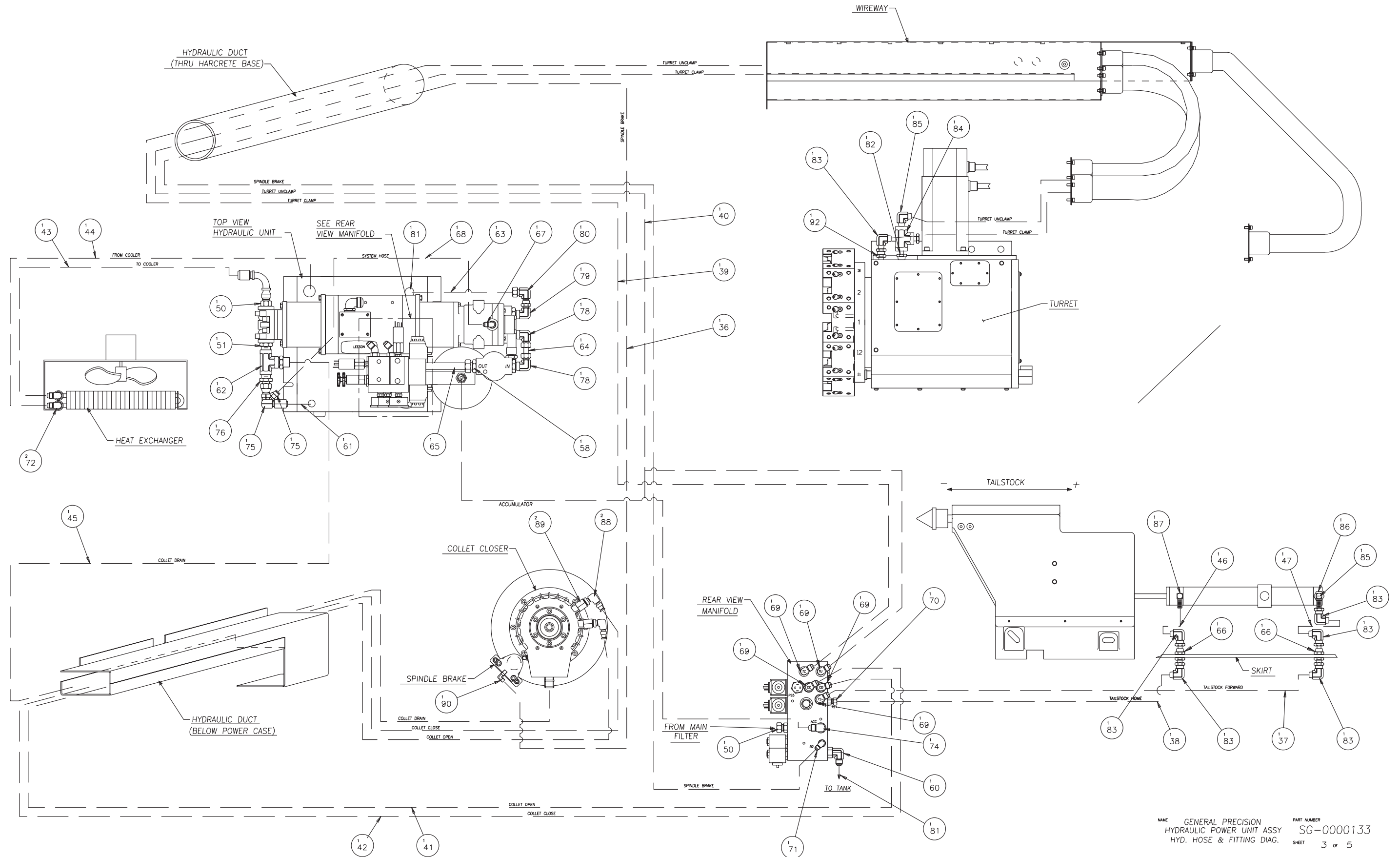
Hydraulic Unit, Machine with Tailstock, Non-CE Mark



NOTE: ITEM #93 HAS BEEN ADDED TO ALL SG HYDRAULIC UNITS BUT IS ONLY VISUALLY SHOWN ON THIS DRAWING.



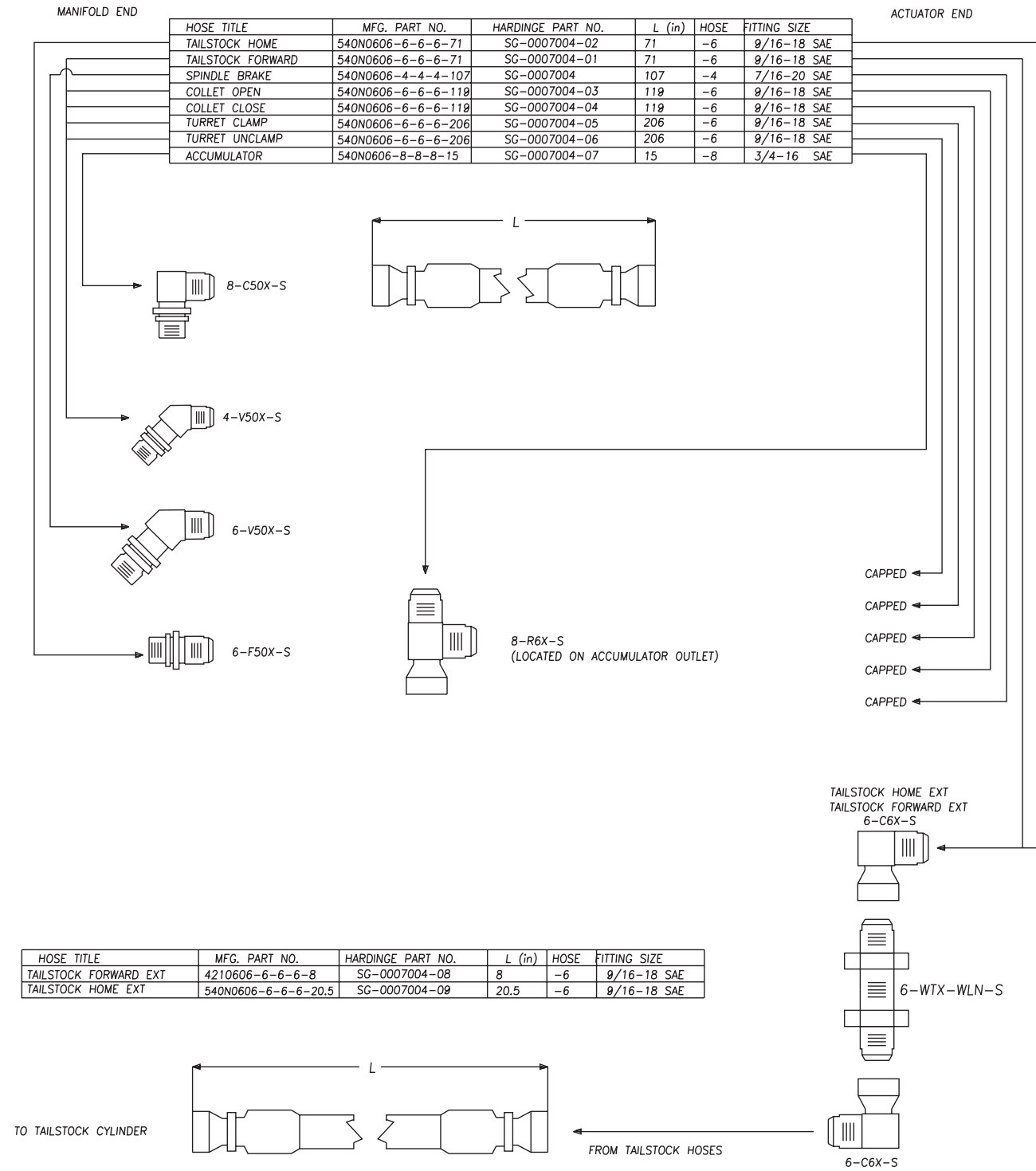
NAME: HYDRAULIC POWER UNIT ASSEMBLY GENERAL PRECISION
 PART NUMBER: SG-0000133
 SHEET: 2 OF 5



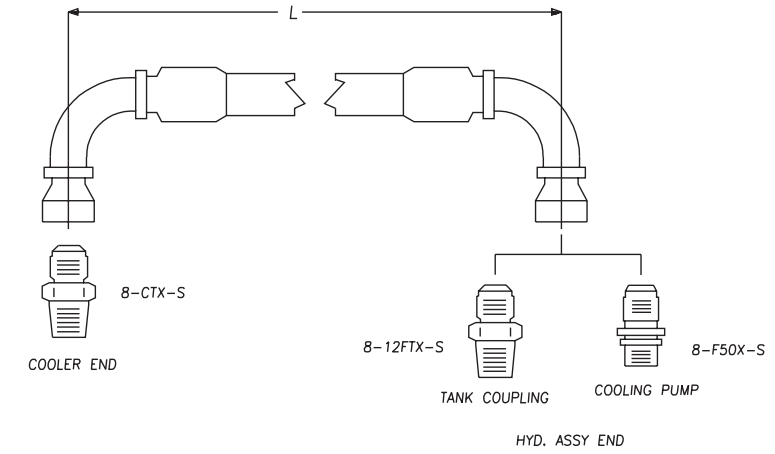
NAME GENERAL PRECISION
 HYDRAULIC POWER UNIT ASSY
 HYD. HOSE & FITTING DIAG.

PART NUMBER SG-0000133
 SHEET 3 of 5

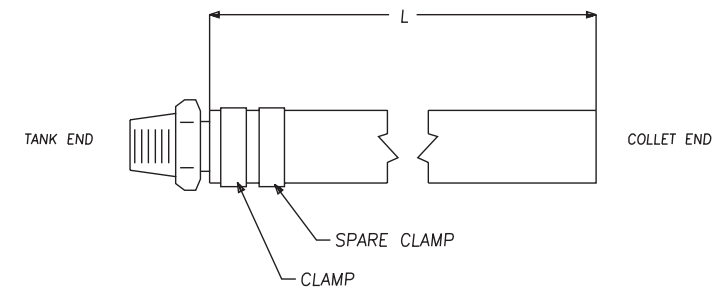
Hydraulic Unit, Machine with Tailstock, Non-CE Mark



HOSE TITLE	MFG. PART NO.	HARDINGE PART NO.	L (in)	HOSE	FITTING SIZE
TO COOLER	75203939-8-8-8-24	CL-0007004-10	24	-8	3/4-16 JIC
FROM COOLER	75203939-8-8-8-30	CL-0007004-11	30	-8	3/4-16 JIC



HOSE TITLE	MFG. PART NO.	HARDINGE PART NO.	L (in)	HOSE	FITTING SIZE
COLLET DRAIN	FHS-10-WH	SG-0007004-12	108	-16	3/4-14 NPT



NAME GENERAL PRECISION
 HYDRAULIC POWER UNIT ASSY
 HOSE ASSEMBLIES

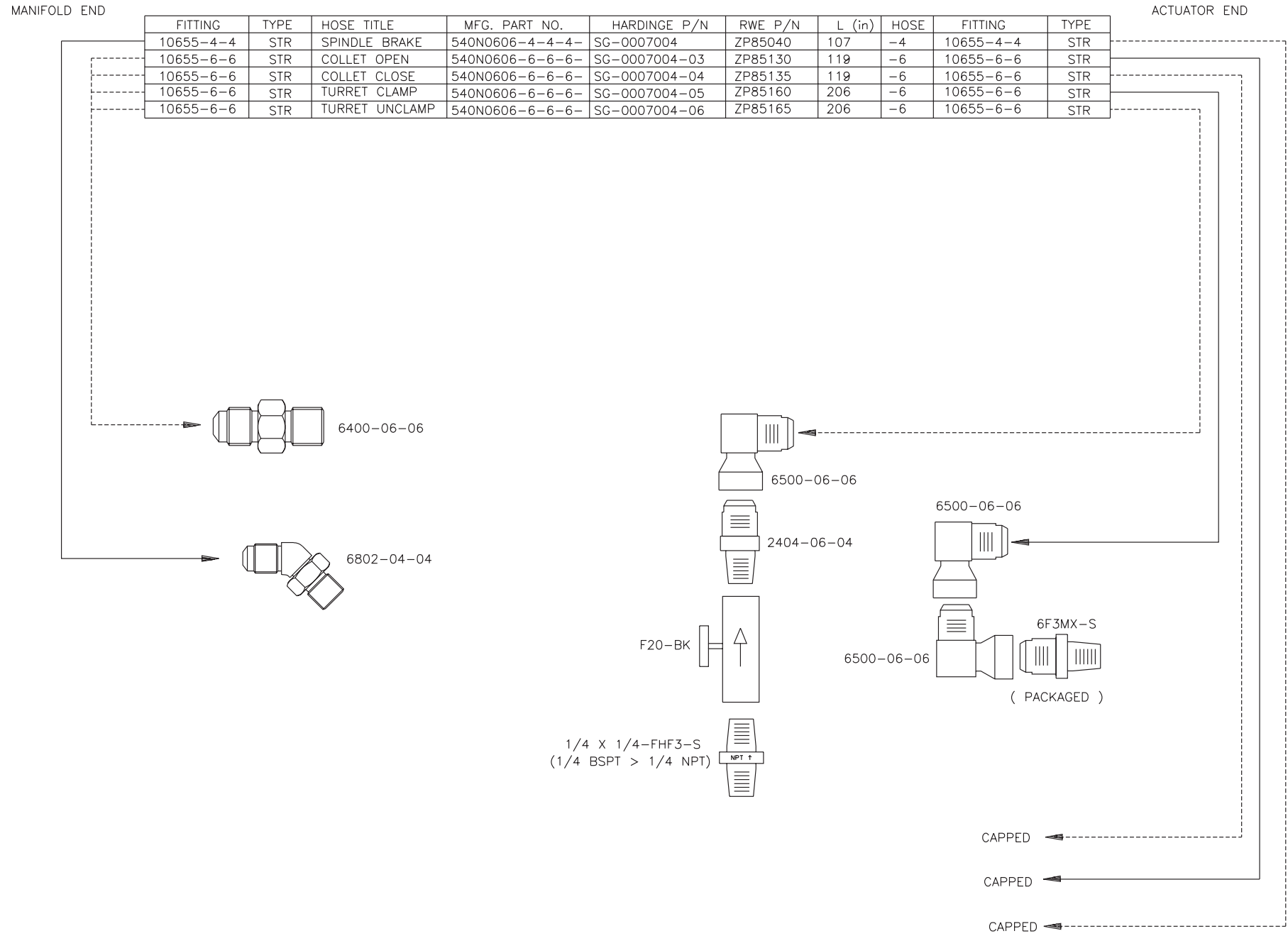
PART NUMBER
 SG-0000133
 SHEET 4 of 5

93	SG-0011259-02	2	SNUBBER, GAUGE
92	CS-0008384-M	1	ADAPTER, STRAIGHT
91	CS-0003048-10	1	TURRET, UNCLAMP VALVE
90	AD-0011338-04	1	90° CONNECTOR
89	CS-0011259-13	2	CONNECTOR, HYD.
88	CS-0011259-11	2	90° CONNECTOR
87	CS-0011259-10	1	FITTING, MALE ELBOW BSPT
86	HS-0008384-23	1	ADAPTER, ALTERED
85	CS-0008384-15	2	ADAPTER, 90°
84	CS-0011452-03	1	VALVE, FLOW CONTROL
83	CS-0007703-12	6	MALE SWIVEL, 90°
82	CS-0008384-01-M	1	ADAPTER, 1/4 NPT X 1/4 BSP
81	CL-0009532-03	2	GROMMET
80	CS-0010786-14	1	ELBOW, 90°
79	CS-0010786-13	1	ELBOW, 90°
78	CS-0010786-12	2	ELBOW, 90°
77	CL-0010786-06	5	CONNECTOR
76	CL-0010786-05	2	CONNECTOR, STRAIGHT
75	CS-0007703-13	2	SWIVEL, 90°
74	CS-0008384-14	1	MALE, 90°
73	CL-0010786-03	1	BULKHEAD FITTING, STRAIGHT
72	CS-0008384-12	2	ADAPTER, STRAIGHT MALE
71	CS-0010787-02	1	ELBOW, 45°
70	CS-0010786-10	1	CONNECTOR, STRAIGHT
69	CS-0010787-01	5	ELBOW, 45°
68	CL-0007004-13	1	HOSE, SYSTEM PUMP DRAIN
67	CS-0010786-09	1	ELBOW, 90°
66	SG-0010786	2	BULKHEAD, STRAIGHT
65	CL-0007707-04	1	TUBE, FILTER TO MANIFOLD
64	CL-0007707-03	1	TUBE, PUMP TO FILTER
63	CL-0007707	1	TUBE, SYSTEM PUMP INLET
62	CL-0010786-04	1	TEE
61	CL-0007004-19	1	TUBE, TANK TO RECIR PUMP
60	CS-0008384-14	1	ELBOW 90°
59	CL-0010786-02	1	TEE, SWIVEL RUN
58	CS-0010786-06	1	CONNECTOR, STRAIGHT
ITEM	PART NUMBER	QTY	DESCRIPTION

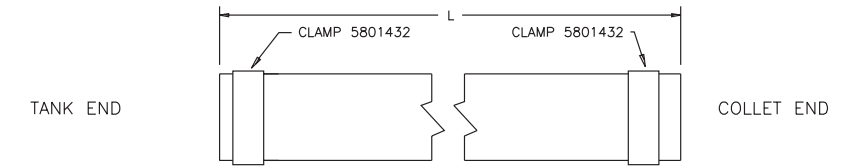
57	CS-0020115-16	1	COVER, TAILSTOCK PRESSURE
56	CS-0020115-15	1	COVER, COLLET CLOSER
55	CS-0020115-14	1	COVER, SYSTEM PRESSURE
54	CS-0000234-G	1	GASKET, 10" BUNA-N
53	CL-0011198-08	1	SEAL KIT, VICKERS
52	CS-0010786-17	1	TEE, SWIVEL NUT BRANCH
51	CL-0010786-01	1	CONNECTOR, STRAIGHT
50	CS-0010786-15	2	CONNECTOR, STRAIGHT THRD
49	CL-0008831-01	3	SOLENOID ASSEMBLY
48	CL-0008831	4	SOLENOID ASSY-VICKERS
47	SG-0007004-08	1	HOSE, TAILSTOCK FWD (EXT)
46	SG-0007004-09	1	HOSE, TAILSTOCK HOME (EXT)
45	SG-0007004-12	1	HOSE, COLLET DRAIN
44	CL-0007004-11	1	HOSE, FROM COOLER
43	CL-0007004-10	1	HOSE, TO COOLER
42	SG-0007004-04	1	HOSE, COLLET CLOSE
41	SG-0007004-03	1	HOSE, COLLET OPEN
40	SG-0007004-06	1	HOSE, TURRET (UNCLAMP)
39	SG-0007004-05	1	HOSE, TURRET (CLAMP)
38	SG-0007004-02	1	HOSE, TAILSTOCK HOME
37	SG-0007004-01	1	HOSE, TAILSTOCK FORWARD
36	SG-0007004	1	HOSE, SPINDLE BRAKE
35	SG-0011614	1	ACCUMULATOR, 1 QUART
34	CS-0011452-09	1	VALVE, CHECK
33	CL-0011452-03	1	VALVE, FLOW CONTROL
32	CS-0011452-07	3	VALVE, PILOT OPERATED CHEC
31	CS-0003048-04	1	VALVE, PRESSURE REDUCING
30	CL-0003048-08	2	VALVE, 2-WAY
29	CL-0003048-07	1	VALVE, 4-WAY
28	CS-0010234-10	1	MANIFOLD
27	CL-0003048-11	1	VALVE, PRESSURE REDUCING
26	SG-0003011-01	1	MOTOR CABLE
25	SG-0012042-09	6	DIN CABLE W/O LED
24	SG-0012042-08	2	DIN CABLE W/ LED
23	SG-0012042-07	5	DIN CABLE W/ LED
22	CS-0011850-10	1	FAN, COOLING
21	CS-0010116	4	CUSHION, MOTOR
20	CL-0011850-04	1	FAN, MOTOR
19	CS-0000128	1	COOLER, OIL
18	CS-0011614-01	1	FILTER, PALL ELEMENT
17	SG-0010779-02	1	FILTER, PRESSURE
16	CS-0011927	1	STRAINER, FLOW EZY
15	CS-0011318	1	GAUGE, LIQUID LEVEL
14	CS-0011537	3	GAUGE, 1000 PSI
13	CSA-0011736-03	1	SWITCH , PRESSURE-40 FALL
12	CSA-0011736-02	4	SWITCH, PRESSURE-60 RISE
11	CL-0011452-01	2	BOLT KIT
10	CL-0003048-06	1	VALVE, TAILSTOCK
9	CL-0003048-05	1	VALVE, COLLET
8	CS-0003325-03	1	PUMP, COOLING
7	CS-0003325-04SG	1	PUMP, SYSTEM (3GPM MAX)
6	CS-0009332-08	1	MOTOR, ELEC. (1.0 HP 3 PH.
5	CS-0010059-01	2	INSERT, L070 LOVEJOY
4	CS-0011792-08	2	COUPLING
3	CS-0011792-07	2	COUPLING
2	CL-0008384-01	2	ADAPTER, PUMP MOTOR
1	SG-0003310-R	1	RESERVOIR, FLUID
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME HYDRAULIC POWER UNIT ASSY PART NUMBER SG-0000133
 BILL OF MATERIAL SHEET 5 of 5

Hydraulic Unit, Machine without Tailstock, CE Mark



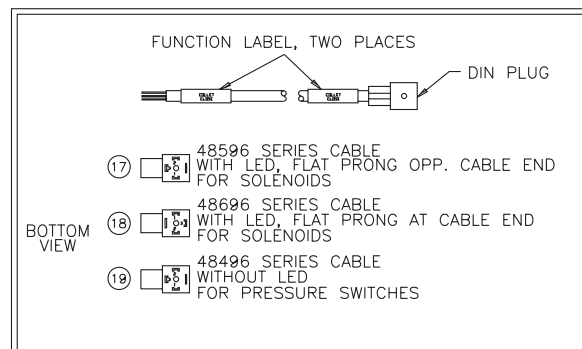
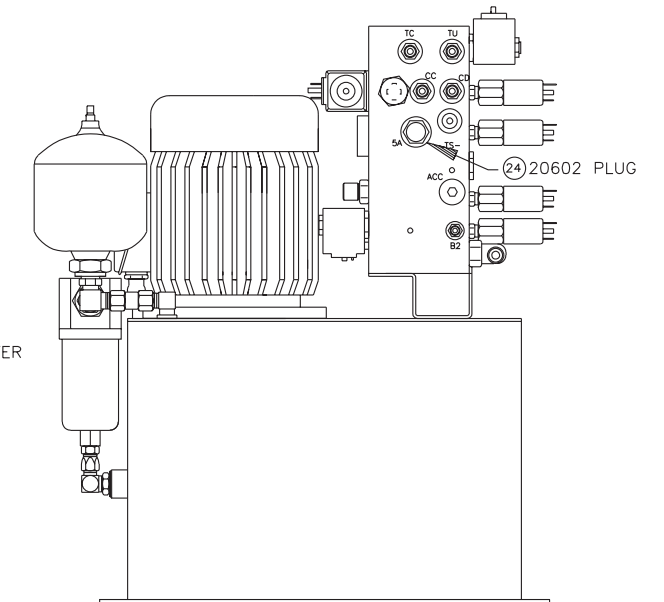
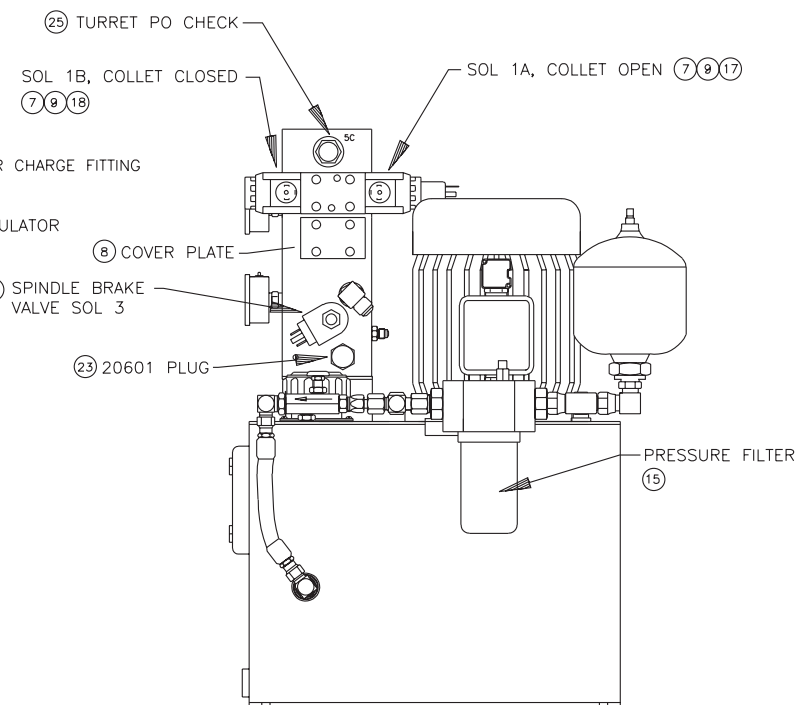
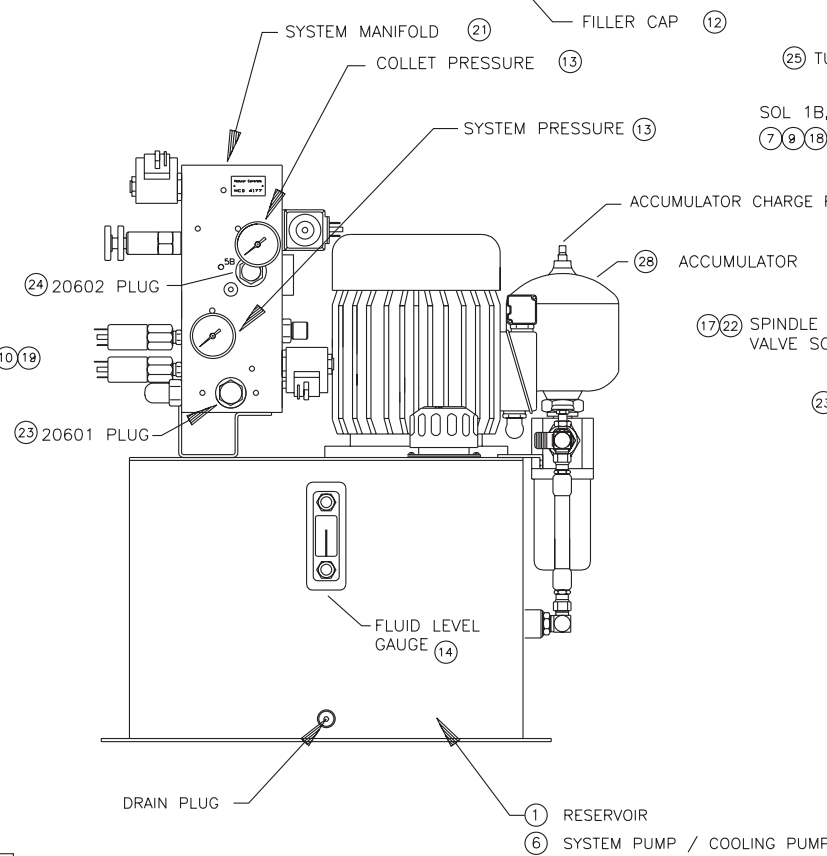
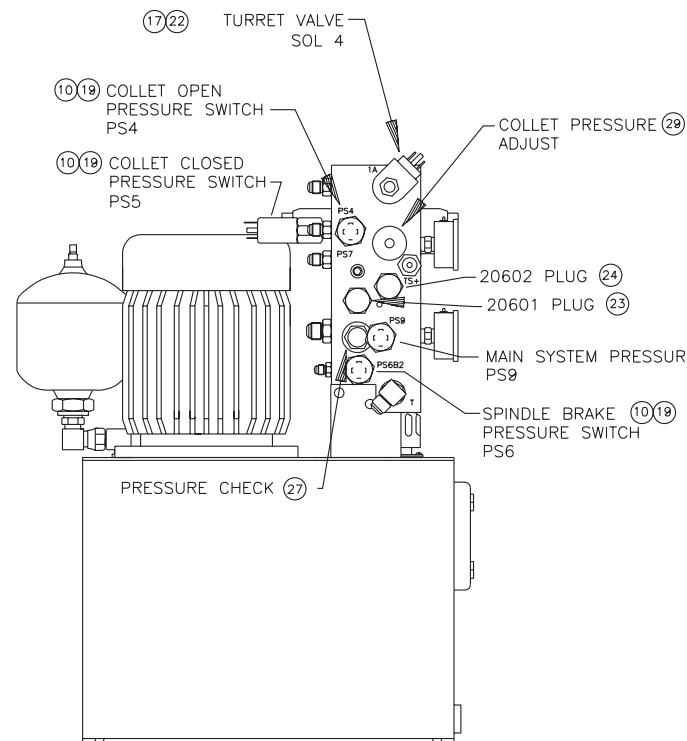
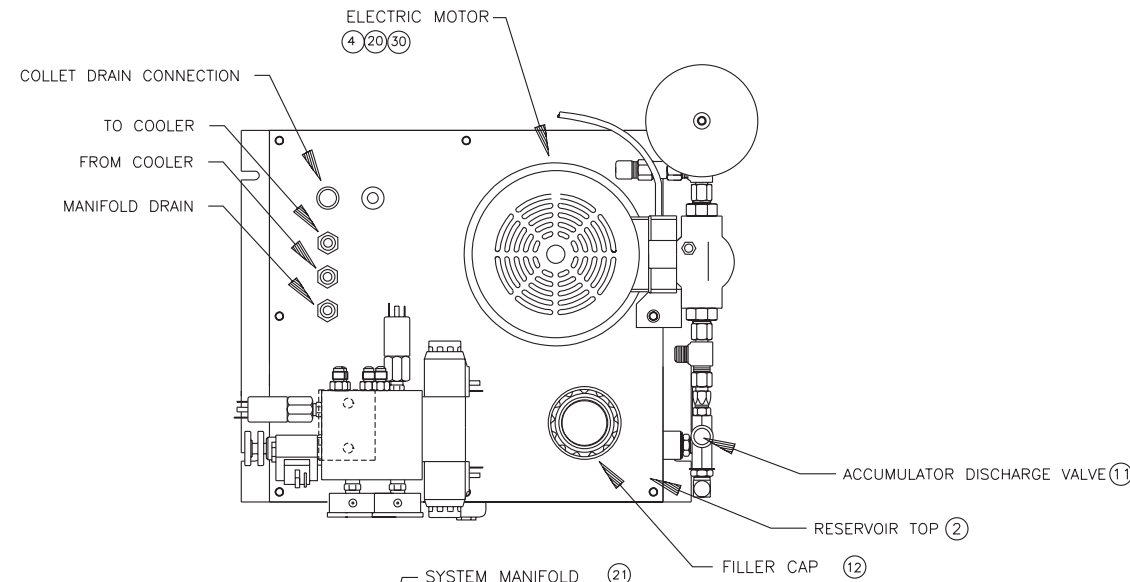
HOSE TITLE	MFG. PART NO.	HARDINGE PART NO.	L (in)	HOSE	FITTING
COLLET DRAIN	H090-G 140-0280-100	-----	108	-16	-----



NAME
HYDRAULIC HOSE ASSY
LESS TAILSTOCK/CE

PART NUMBER
SGA0000133LTCE
SHEET 2 OF 3

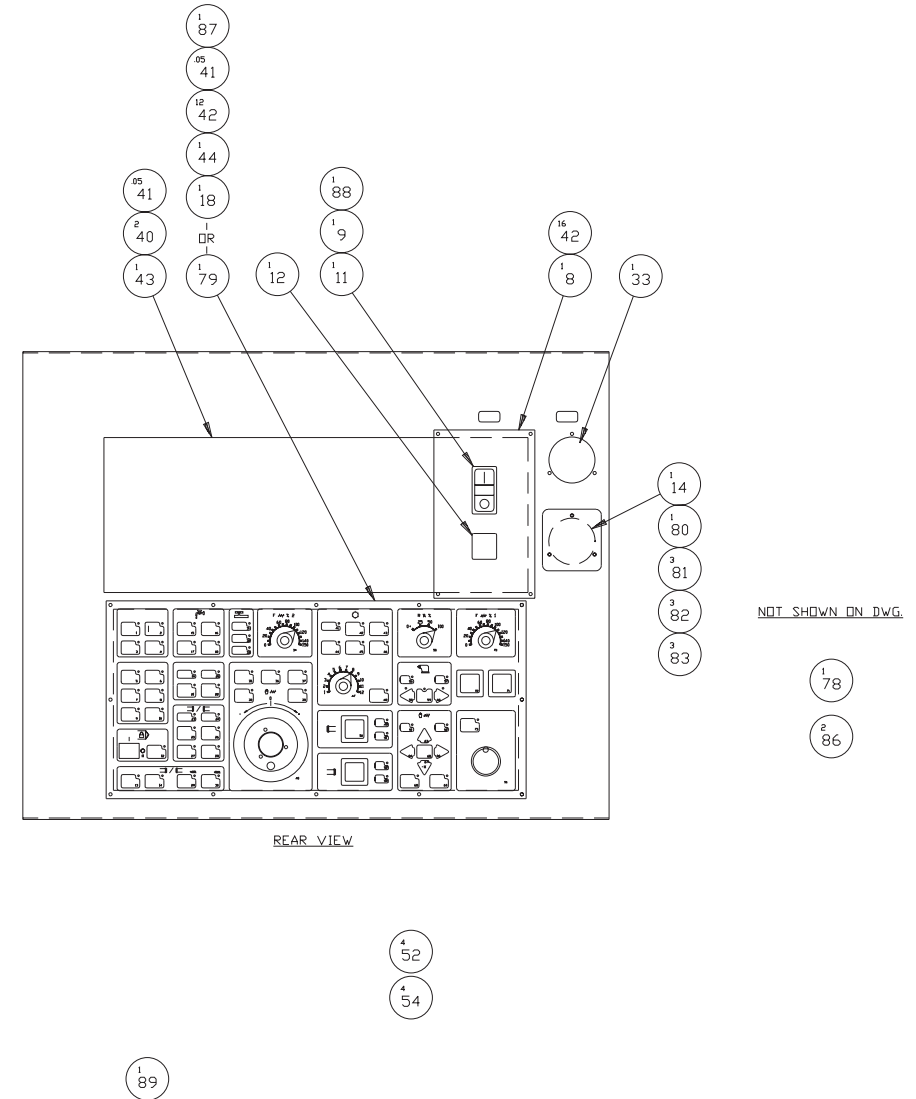
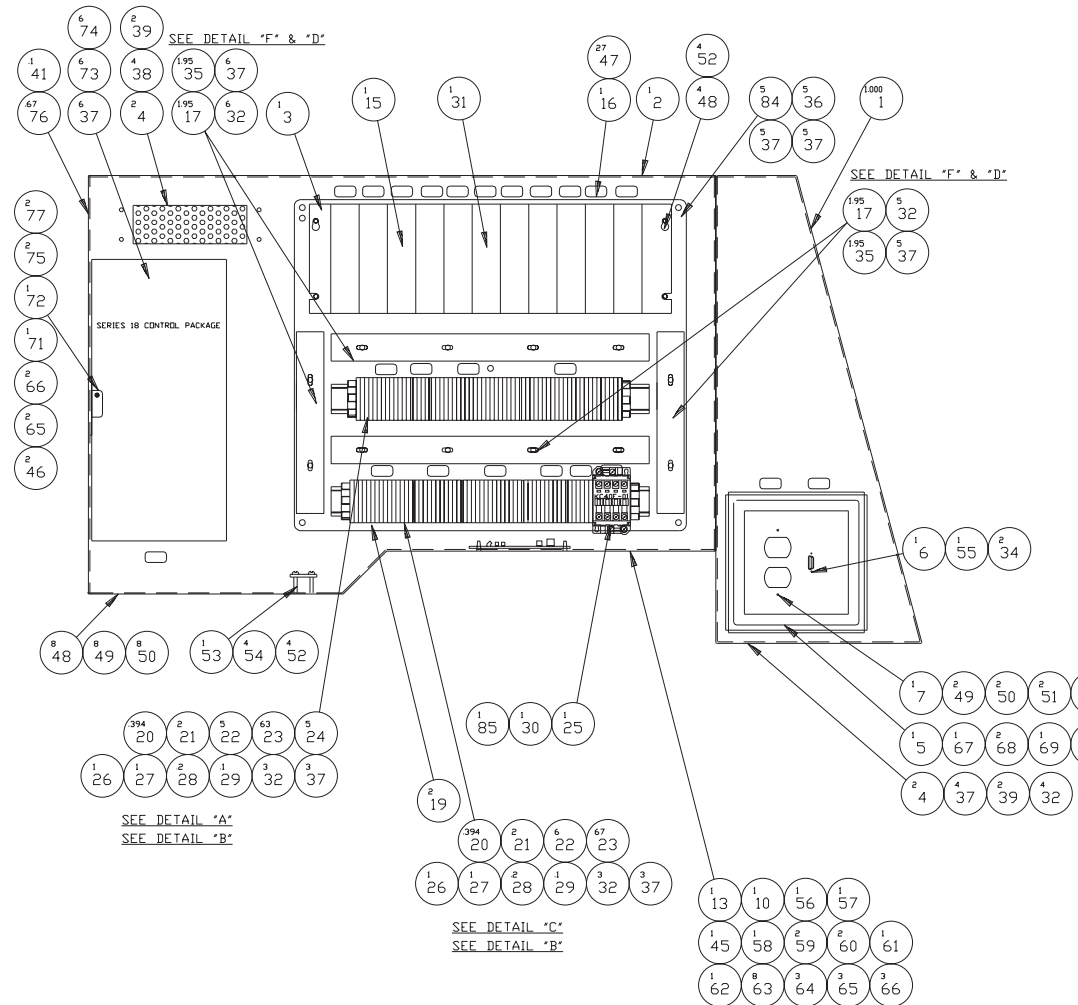
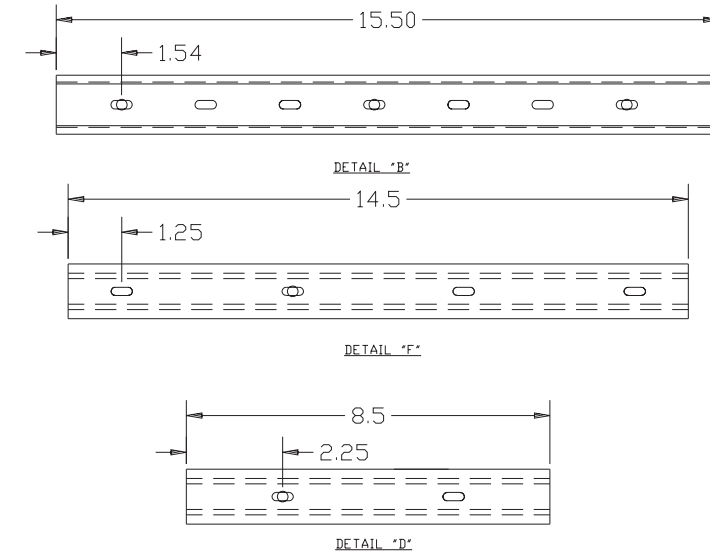
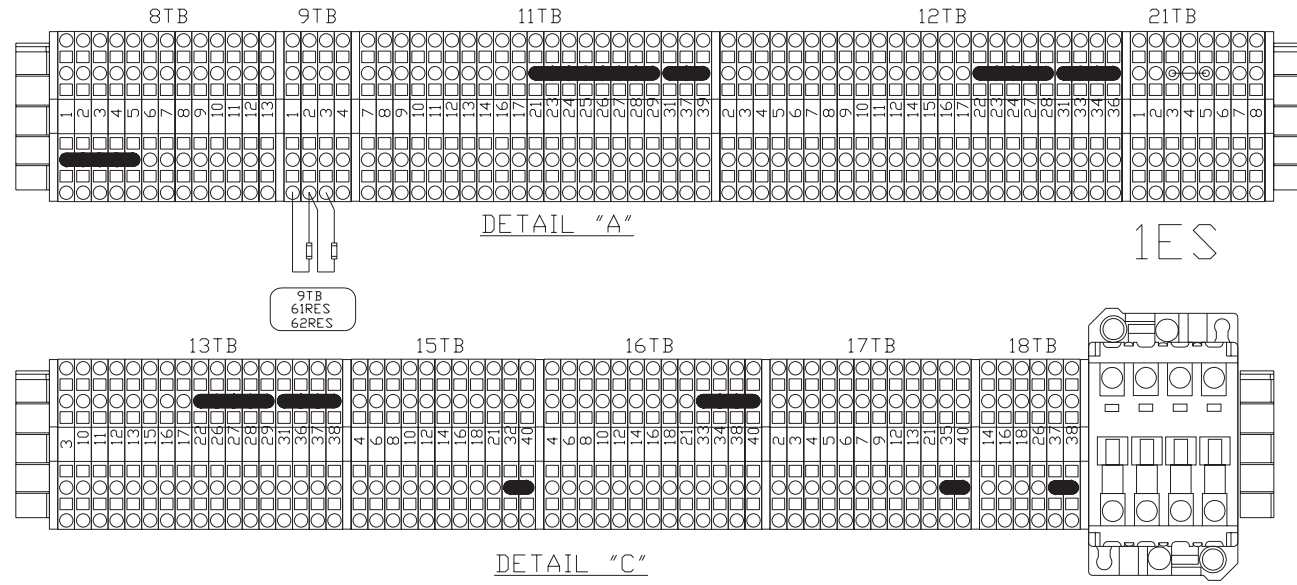
ITM	QTY	RWE DESCRIPTION	HARDINGE PART NO.
1	1	RWE 23997 RESERVOIR	
2	1	RWE 39698 RESERVOIR TOP	
3	-	-	
4	1	NORTHMAN 1HP 3PH 230 VAC	
5	-	-	
6	1	NORTHMAN VPVCG-F30/7.8-A2-01	
7	1	VICKERS DG4V3S-2N-MUH5-60	VL 0003048CCDV
8	1	DAMAN AD03-CP-P-COVER PLATE	
9	8	MOUNTING BOLTS 10-24x1-1/4	
10	4	CCS 6710 P34 60 RISING	CSA001173602
11	1	DELTRON FM620-SK	
12	1	LENZ FCS-537	CL 0000537
13	3	LENZ AFC-1M-20RC GAUGE	
14	1	LDI G1615-03-A-1 SIGHT GAUGE	SG 0011537
15	1	PALL HH9020A12KNRBPT	SG 001077902
16	-	-	
17	6	48596-C-00-048 CABLE	
18	2	48696-C-00-048 CABLE	
19	5	48496-C-00-048 CABLE	
20	1	CAROL 95255	
21	1	MODULAR CONTROLS MCD-XXXX	
22	2	MODULAR CONTROLS SV1-10-4-0-24DG	CL 000304807
23	2	MODULAR CONTROLS 20601 PLUG	
24	1	MODULAR CONTROLS 20602 PLUG	
25	3	MODULAR CONTROLS SPC2-10-P-0-25	CS 001145207
26	-	-	
27	1	MODULAR CONTROLS CV1-10-P-0-5	
28	1	OILAIR 1H-60-2-100-3	SG 0011614
29	1	MODULAR CONTROLS PRV1-4044	
30	1	MUR 23-030 SURGE SUPPRESSOR	



NAME
HYDRAULIC UNIT
LESS TAILSTOCK/CE

PART NUMBER
SGA0000133LTCE
SHEET 3 OF 3

Input/Output Case Assembly



NAME: I/O CASE ASSEMBLY
SG-CE MARK

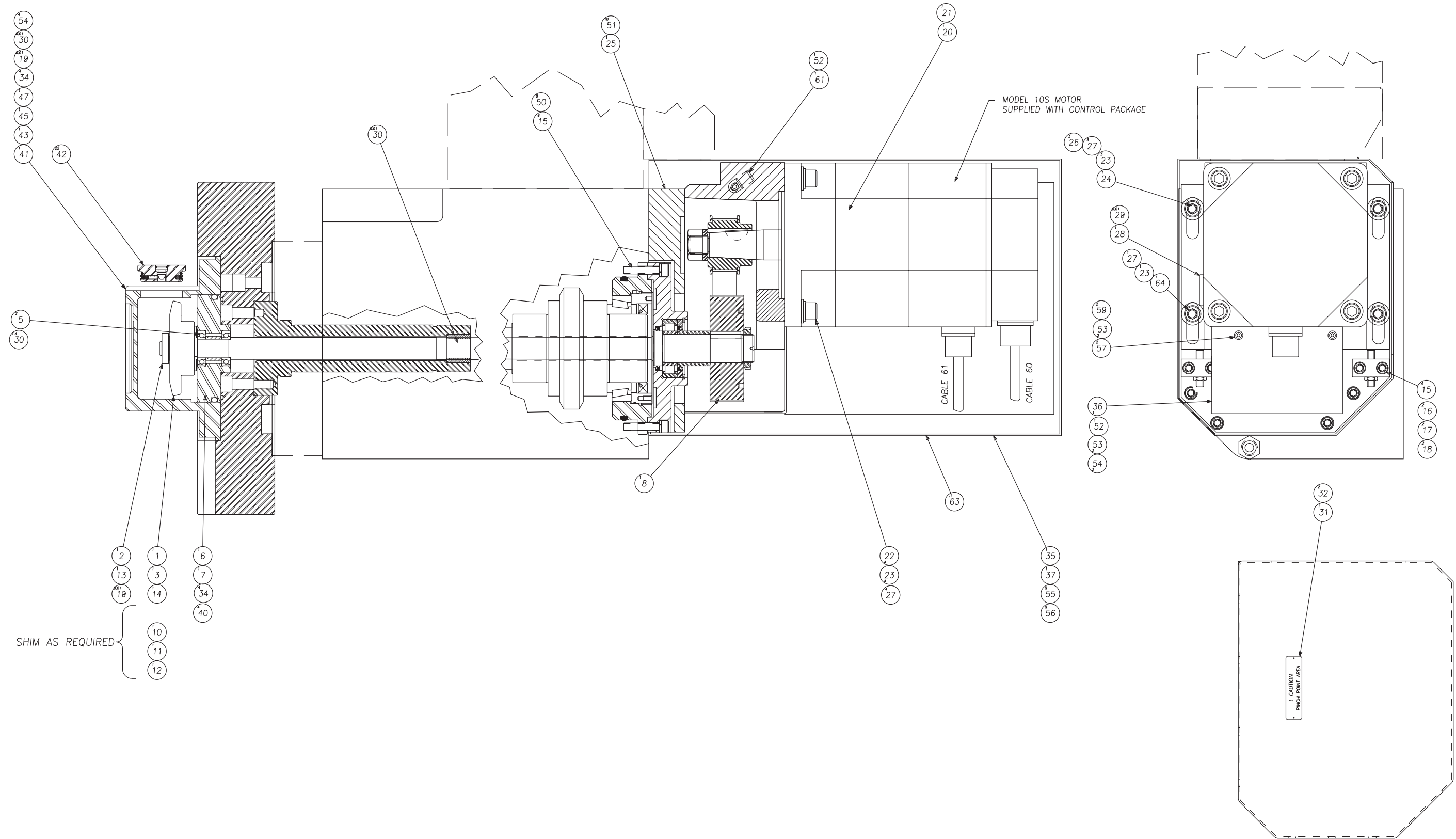
PART NUMBER: SG 0003279 E

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SGA0000221CH	1.0000	CONTROL WELD ASSEMBLY
2	SG 00041581ACE	1.0000	I/O CASE ASSY - CEMARK
3	SG 000499082	1.0000	PANEL, I/O CASE COMP. MTG
4	HG 0011350	4.0000	FILTER, FOAM
5	HG 000378004	1.0000	COVER, RS232
6	SG 0012042	1.0000	RECEPTACLE HOUSING FOR HIROS
7	HG 001204201	1.0000	RECEPTACLE, 115VAC, 3 WIRE
8	CL 000415841	1.0000	PANEL, ON-OFF
9	LC 0003650GE01	1.0000	SWITCH, CONTACT BLOCK, IND
10	SGA000415809	1.0000	PLATE, DOOR HINGE (BOTTOM)
11	LC 0003650GE23	1.0000	SWITCH, OPERATOR, ON/OFF
12	LC 0003650GE15	1.0000	SWITCH, PLUG, SQUARE, SMALL
13	SG 00037801D	1.0000	DOOR, I/O CASE
14	SG 0010116	1.0000	GASKET, LOAD METER COVER
15	18 001179102	1.0000	INPUT MODULE AID16D
16	LD 0002854	1.0000	TAG LAYOUT - CEMARK
17	JA 0010821	3.9000	PANDUIT
18	SGA0011844 E	1.0000	MTB PANEL - CEMARK
19	GN 001047201	2.0000	RESISTOR
20	CK 9011032	0.7880	RAIL, DIN BLANK
21	HG 001103204	4.0000	END STOP
22	HG 001103203	11.0000	END PLATE
23	HG 001103201	130.0000	TERMINAL BLOCK,BLUE
24	HG 001103205	5.0000	JUMPER, 10 POLE
25	TT 001129803	1.0000	SUPPRESSOR
26	HG 0009175	2.0000	MARKER, STRIP 1-10
27	HG 000917501	2.0000	MARKER, STRIP 11-20
28	HG 000917502	0.4000	MARKER, STRIP 21-30
29	HG 000917503	0.2000	MARKER STRIP 31-40
30	LC 000812202	1.0000	RELAY, 24VDC - 4ND
31	18 0011791CE	1.0000	MODULE,DC OUTPUT,8 POINT-CEM
32	MS 0303514	21.0000	SCREW, BT. HD. M5 X .8 X 8MM
33	SG 0011857CE S	1.0000	METER, SPIN. LOAD - CEMARK
34	0300004	2.0000	SCREW, BHD 4-40 X 1/4
35	JA 001082101	3.9000	COVER
36	HG 0010190	5.0000	STANDOFF
37	MW 0263510	37.0000	WASHER, STAR EXT. M5 STEEL
38	MN 0283510	4.0000	NUT, M5X0.8, SER HEX FLNG
39	HG 000415813	4.0000	BRACKET, FOAM
40	CL 0010116	2.0000	GASKET
41	3 001088401	0.2000	ADHESIVE
42	MS 0303315	28.0000	SCREW, BUTTON HD. M3X.5X10MM
43	CL 000022144	1.0000	FACEPLATE,CONTROL HOUSING
44	SG 0010116MP	1.0000	GASKET, MEMBRANE PANEL
45	MN 0283610	1.0000	NUT, M6X1.0, SER HEX FLNG
46	MS 0303615	2.0000	SCREW, BT. HD. M6X1.0X 10MM
47	F3 000997701	27.0000	LABEL, ID
48	MS 0303415	12.0000	SCREW, BT. HD. M4X.7,X 10MM
49	MW 0103410	10.0000	WASHER, FLAT M4 X .7 STEEL
50	MW 0183410	10.0000	WASHER, LOCK M4 STEEL
51	MS 0303416	2.0000	SCREW, BT. HD. M4X.7,X 12MM
52	MW 0263410	12.0000	WASHER, EXT. STAR M4
53	SG 001082104	1.0000	SUPPORT, CABLE BAR
54	MS 0303417	8.0000	SCREW, BT. HD. M4X.7,X 16MM
55	CN 0012042 B	1.0000	BLOCKS, LATCHING
56	SG 000415811	1.0000	SPACER, NYLON (P.C. DOOR)
57	SG 000415825	1.0000	PLATE,DOOR HINGE
58	HG 0012029	1.0000	KEY
59	VL 0011738	2.0000	LATCH, DOOR, VISE ACTION

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
60	VL 001173801	2.0000	DOOR PULL
61	SG 000415808	1.0000	PLATE, DOOR HINGE (TOP)
62	SG 000179912	1.0000	SPACER, PC & I/O CASE DOOR
63	CN 001119801	8.0000	SEAL, DOOR
64	MS 0303617	3.0000	SCREW, BT. HD. M6X1.0 X 16MM
65	MW 0183610	5.0000	M6 REG. LOCKWASHER
66	MW 0103610	5.0000	WASHER, FLAT M6 STEEL
67	CN 0011062	1.0000	KNOB
68	CC 0011947	2.0000	STRIP, MAGNETIC
69	0300204	1.0000	SCREW BT HD 8-32 X 1/4
70	MN 0113410	2.0000	NUT, HEXAGON, 934 PLATED
71	CL 000415832	1.0000	BRACKET, SWITCH,OTC & I/O CA
72	CL 001022407	1.0000	SWITCH, INTERLOCK
73	MS 0303516	6.0000	SCREW,BUT.HD.M5X.8X12MM
74	MW 0103510	6.0000	WASHER, FLAT M5 X .8 STEEL
75	6 0008137	2.0000	WASHER, LOCK
76	SB 001056504	0.6700	U CHANNEL
77	0300103	2.0000	SCREW BT HD 6-32 X 3/16
78	SG 0003279WPI0	1.0000	WIRE PACKAGE-I/O CASE-CEMARK
79	SGA0011844RT E	1.0000	MTB PANEL ASSY - CEMARK
80	SG 001011542	1.0000	COVER, LOAD METER
81	MW 0193310	3.0000	WASHER, LOCK DIN-7980 M3X.5
82	MW 0103310	3.0000	WASHER, FLAT REGULAR M3X.5
83	MN 0113310	3.0000	NUT, M3 X .5
84	MS 0303515	5.0000	SCREW, BT. HD. M5X.8,X 10MM
85	VFA00103610IRL	1.0000	ADDER DECK RELAY
86	DV 0010546	2.0000	NUT FOR GROUNDING POST
87	CS 0012099	1.0000	BEZEL, PANEL
88	LC 0003650GE02	1.0000	SWITCH, CONTACT BLOCK, INC
89	SG 001204204	1.0000	RECEPT.SOLDER TYPE SPEC 15 P
90	NC 001088402	0.010	LOCTITE #222

I/O CASE ASSEMBLY SG 0003279 E
SG-CE MARK

Live Tooling Drive Assembly



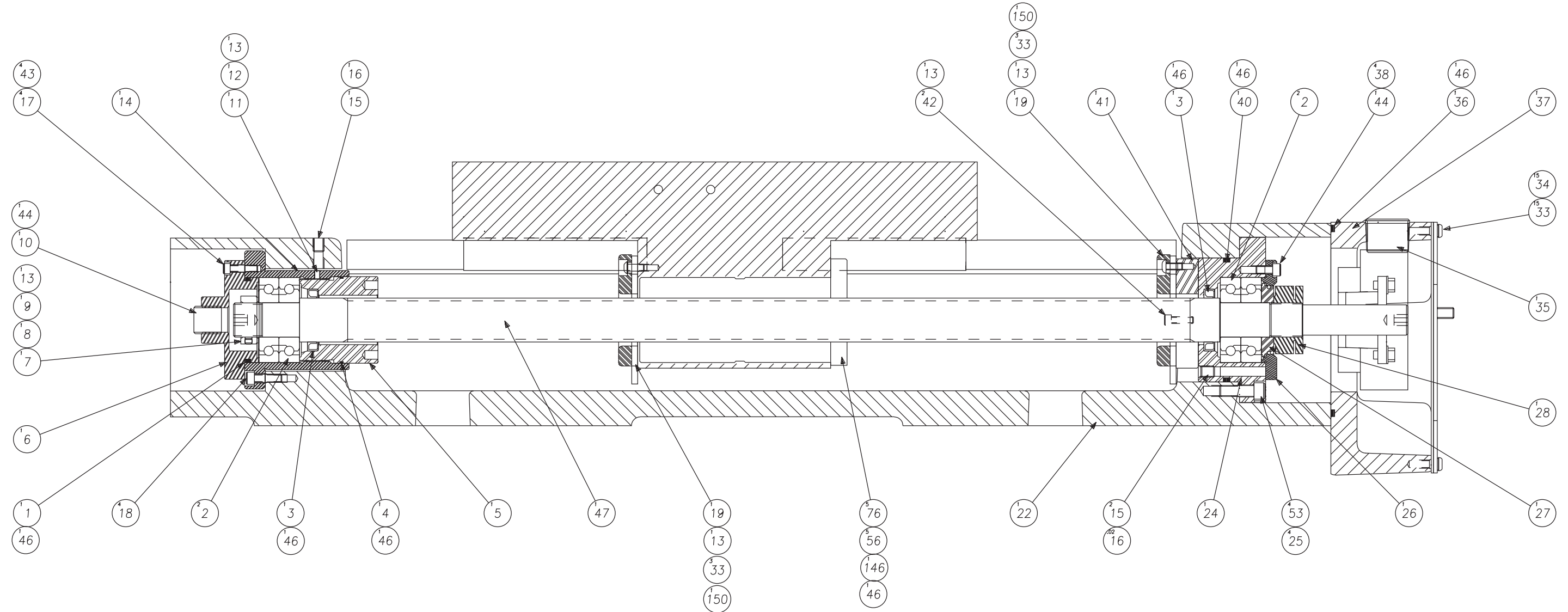
NAME: ASSY, LIVE TOOL - COMMON PARTS (CEMARK)
 PART NUMBER: SG-0000144-CPCE
 SHEET 1 of 2

64	MS-0104225	1	SCREW, M12 X 55
63	GE-0010884	0	SILICONE
61	CN-0008104	1	CABLE CLAMP
59	MW-0183510	2	WASHER, M5 LOCK
57	MS-0303515	2	SCREW, BT HD M5 X 12
56	MW-0263610	9	WASHER, M6 STAR
55	MS-0303614	9	SCREW, BH M6 x 9
54	MW-0183510	6	WASHER, M5 LOCK
53	MW-0103510	4	WASHER, M5 FLAT
52	MS-0303516	2	BUTTON HD SOC M5 X 12MM
51	MS-0103822	10	SHCS M8 x 40
50	MW-0103810	8	WASHER, FLAT M8
47	SG-0003291-01 M	1	STOP, 10 STA METRIC
45	SG-0003291-02 M	1	STOP, 12 STA METRIC
43	SG-0003291-01	1	STOP, 12 STA ENG
42	CS-0012036-A	22	ASSY, PLUG
41	SG-0003291-02	1	STOP, 12 STA ENG
40	MW-0103610	4	WASHER, M6 FLAT
37	SG-0010116-87	1	GASKET, LT MTR COVER
36	SG-0010115-48	1	COVER, BELT
35	SG-0010115-46	1	COVER, LT MOTOR
34	MS-0103619	8	SCREW, SNCS M6x 25
32	R-0008044	2	PIN, ESCUTCHEON
31	CS-0010302-02	1	TAG, CAUTION PINCH POINT
30	CS-0010994	1	GREASE
29	LT-0010884-S	0	SEALANT, PIPE
28	HM-0009215	1	PLUG, 1" SH PIPE
27	MW-0104210-H	8	WASHER, M12 FLAT HARD
26	MS-0104226	3	SCREW, SHCS M12 x 60
25	SG-0001991-02	1	PLATE, MOTOR MTG
24	SG-0011797-01	1	MOUNT, LT MOTOR
23	MW-0184210	8	WASHER, M12 LOCK
22	MS-0104221	4	SCREW, SHCS M12 x 35
21	CL-0003346-12	1	BELT, GT PROFILE
20	CL-0003177-36 A	1	ASSY, 36 T PULLEY
19	NC-0010884	0	LOCTITE
18	MS-0573822	2	SCREW, SET FLAT PT M8-1.2
17	MN-0153810	2	NUT, M8 HEX
16	CSB-0011320-02	2	BLOCK, ADJ PLATE
15	MS-0103821	12	SCREW, SHCS M8 x 35
14	CS-0007533	1	KEY
13	CS-0000492-01	1	NUT, LOCK
12	6-0006481-05	1	SHIM
11	6-0006481-01	1	SHIM
10	6-0006481-02	1	SHIM
8	SG-0000144-R	1	ASSY, LT REAR
7	OR-0006672	1	O-RING
6	SG-0003291-A	1	LOCATOR ASSY
5	SG-0000266	2	BEARING, ANG CONT
3	SG-0001799-03	1	SPACER
2	CS-0002840-01	1	WASHER
1	SG-0001892-01	1	GEAR, SPIRAL BEVEL
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME ASSY, LIVE TOOL - COMMON PARTS (CEMARK) PART NUMBER SG-0000144-CPCE SHEET 2 of 2

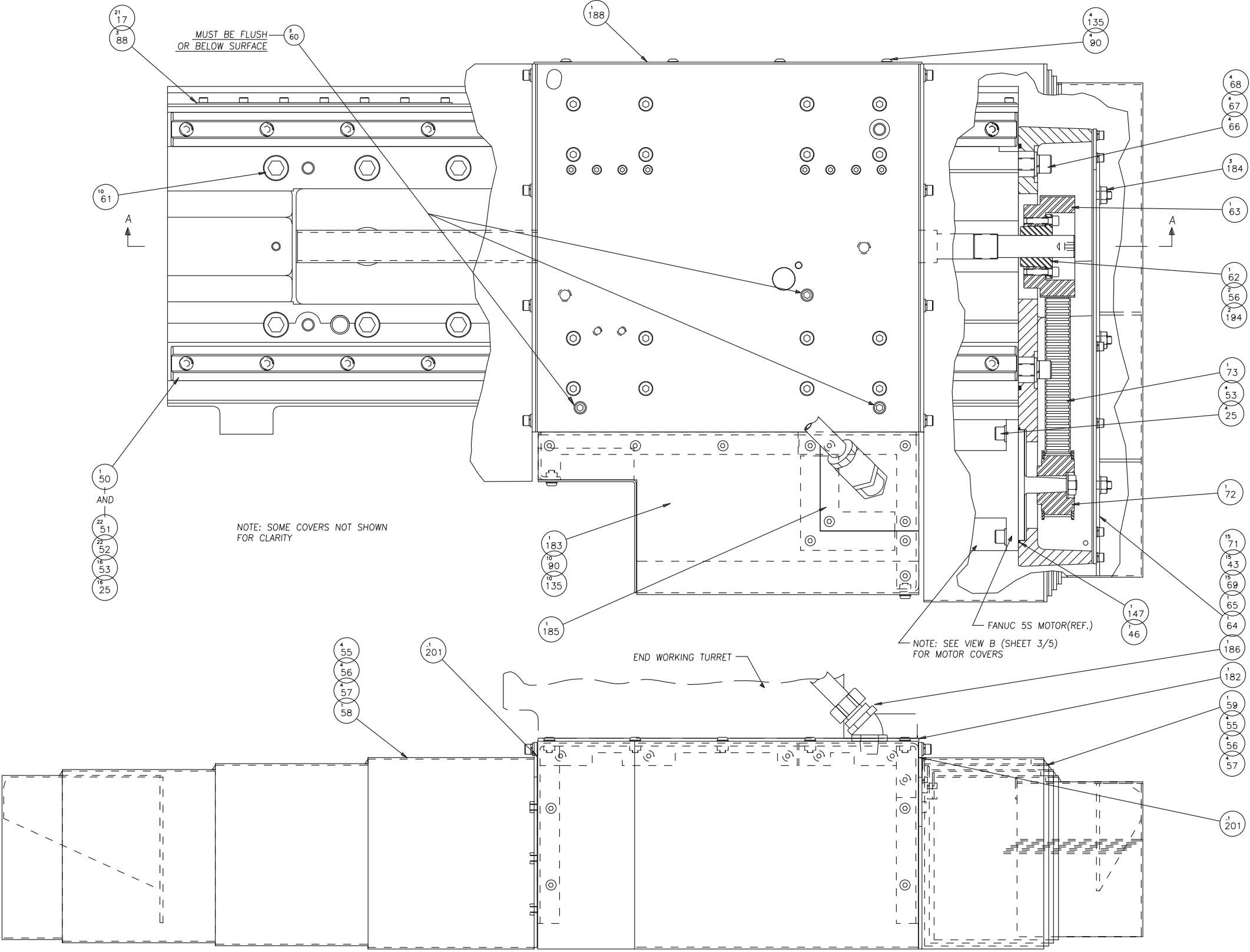
Lower Axis Drive Assembly

NOTE: SOME COVERS NOT SHOWN FOR CLARITY



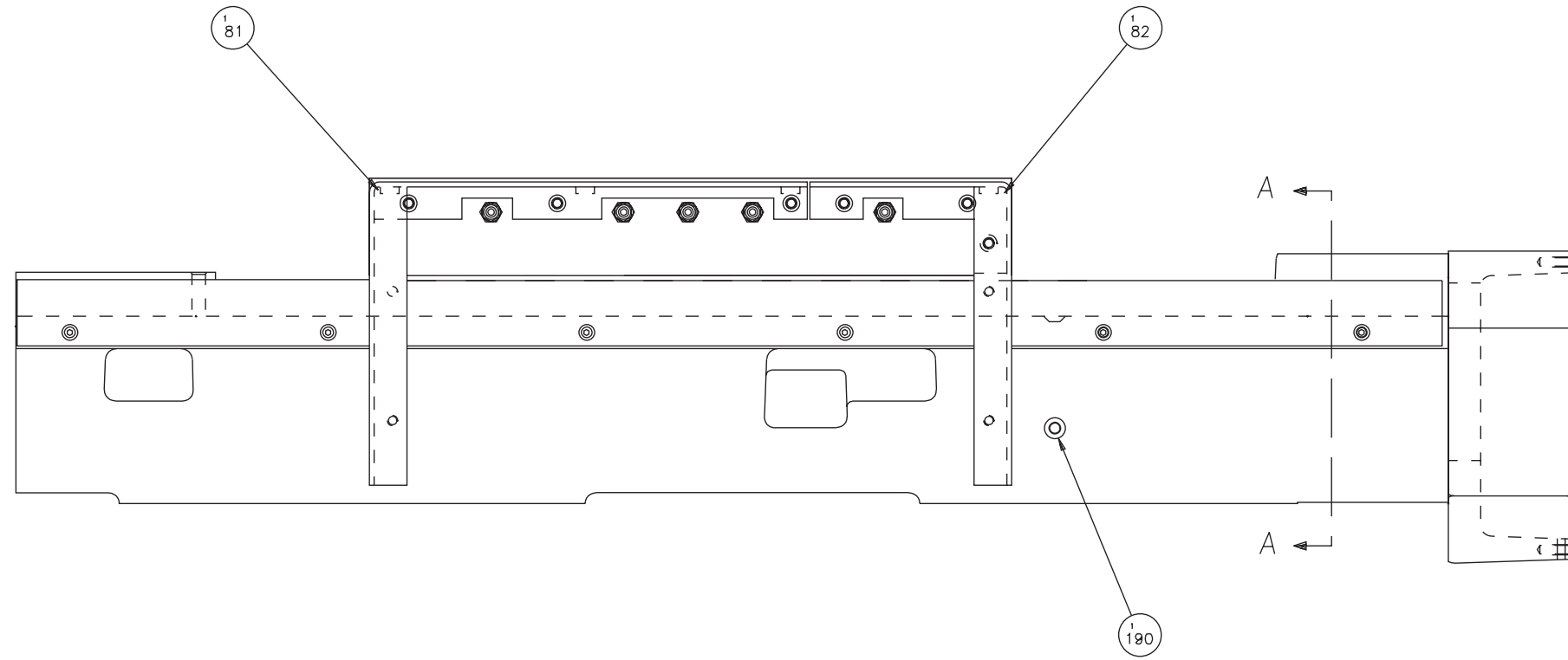
SECTION A-A
(SEE SHEET 2/5)

NAME: LOWER AXIS DRIVE ASSEMBLY
PART NUMBER: SGC-0006730-LA
SHEET 1 of 5

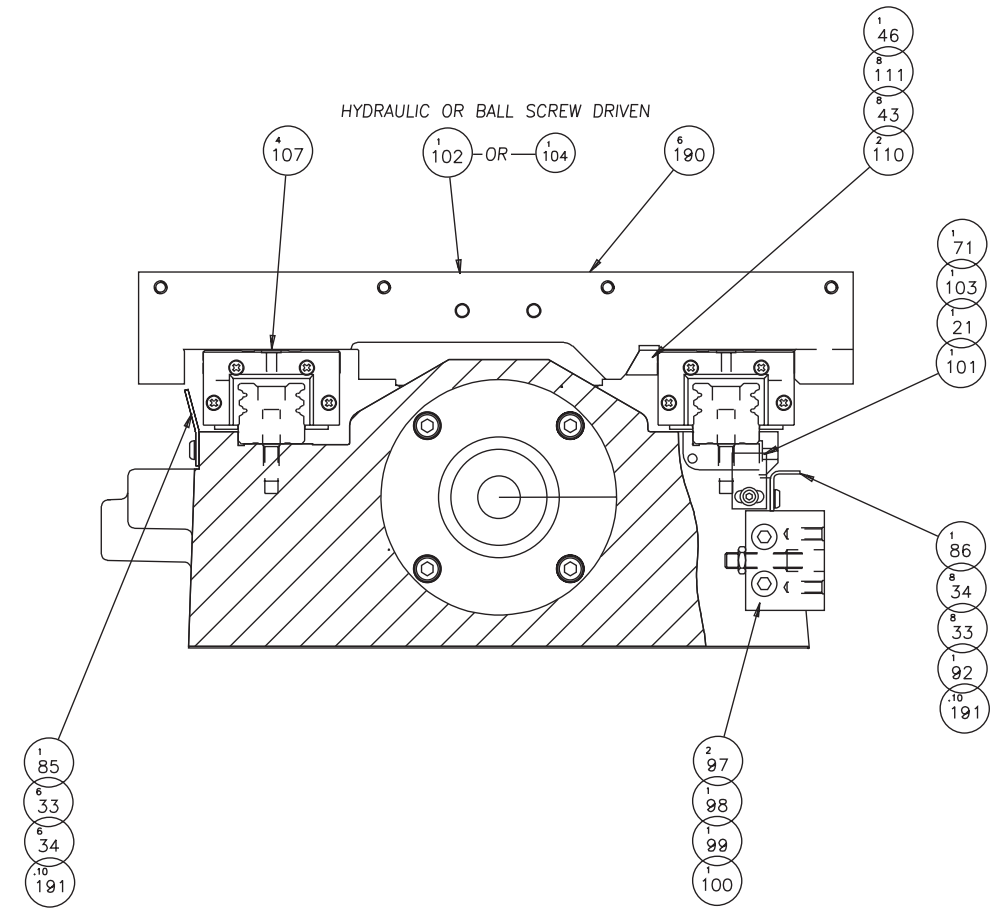


NAME: LOWER AXIS ASSEMBLY
 PART NUMBER: SGC-0006730-LA
 SHEET 2 of 5

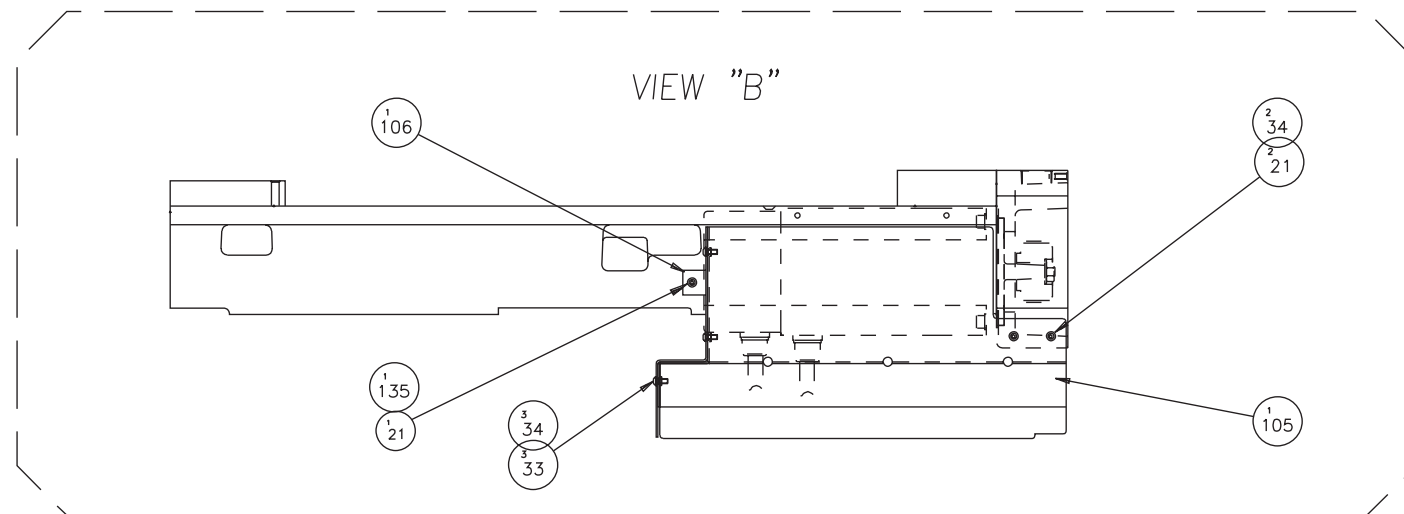
Lower Axis Drive Assembly



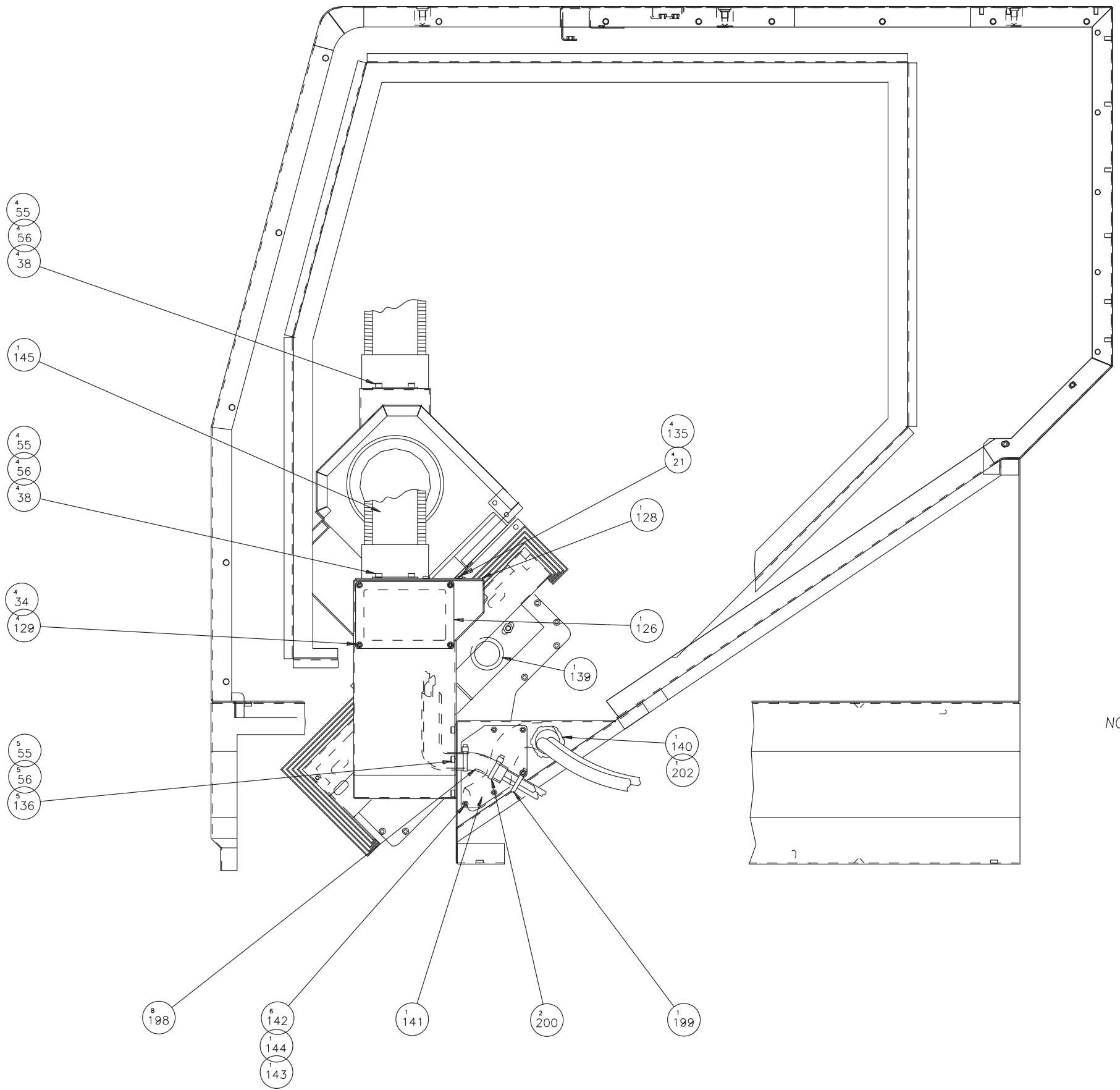
NOTE: SOME COVERS NOT SHOWN FOR CLARITY



SECTION A-A



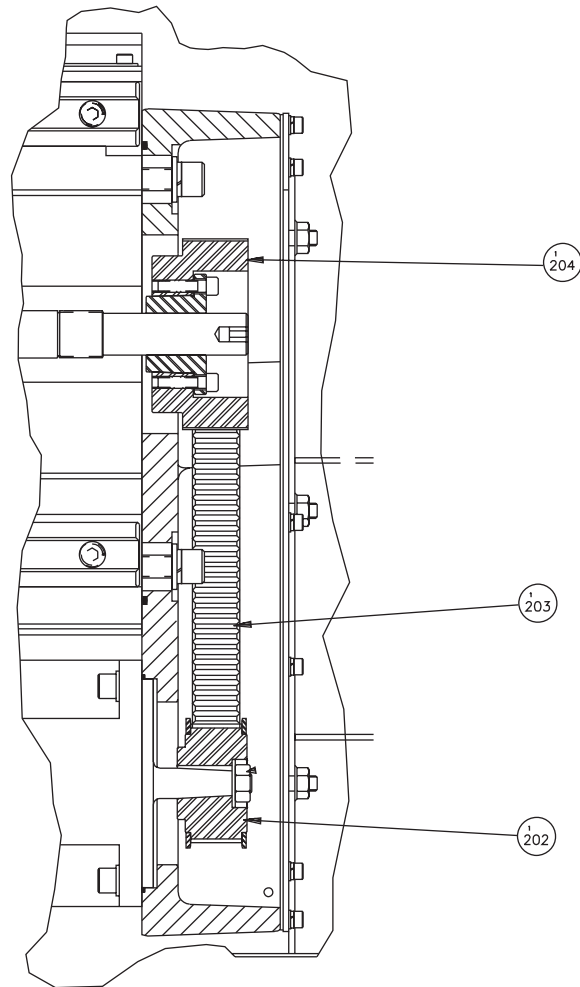
NAME: LOWER AXIS DRIVE ASSEMBLY
 PART NUMBER: SGC-0006730-LA
 SHEET: 3 of 5



NOTE: SOME COVERS NOT SHOWN FOR CLARITY

NAME LOWER AXIS DRIVE ASSEMBLY PART NUMBER SGC-0006730-LA SHEET 4 of 5

Lower Axis Drive Assembly



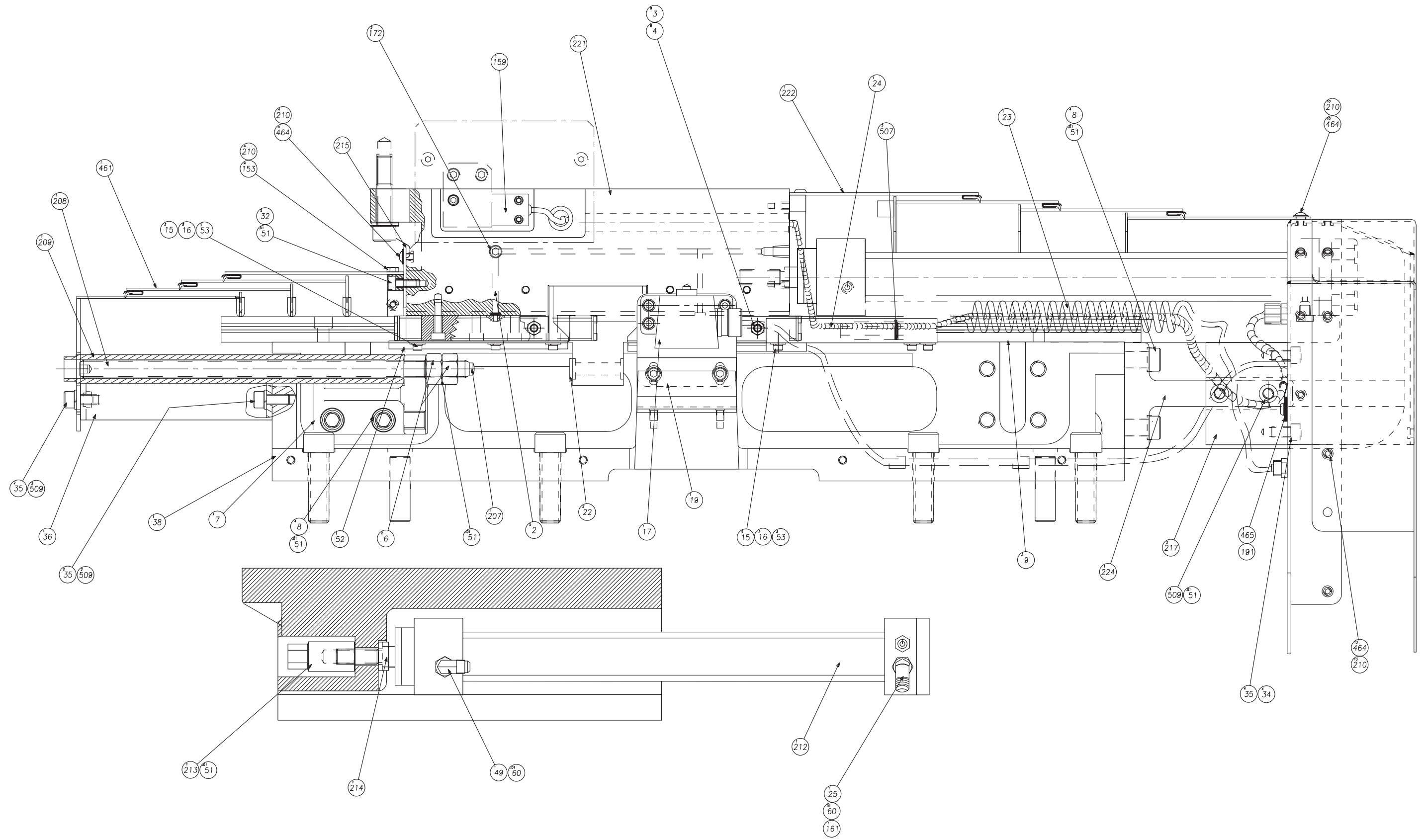
SUB SPINDLE LOWER AXIS

205	1250010226	1	GASKET
204	SG 000317754S	1	PULLEY, 54T
203	CL 0003346LA01	1	BELT, LOWER AXIS DRIVE
202	SG 000317754M	1	PULLEY, 54T
201	HG-0010884	.2	SEALANT, ULTRA-BLUE
200	AH-0009910	2	TY-WRAP
199	NC-0009623-01	1	TY-WRAP
198	SB-0010473-ZT	8	TUBING, ZIPPER
194	0100614	2	1/4-20 SCREW, SKHD x 7/8"
191	GE-0010884	.2	SILICON
190	S-0010700-07	7	PLUG, LEE
188	SGB-0010115-R	1	COVER, REAR
186	744-0010229-02	1	CONDUIT ASSEMBLY, 3/4
185	SG-0020115-50	1	COVER, CONDUIT
184	MN-0283610	3	M6 NUT, FLANGE
183	SG-0010115-F	1	FRONT COVER ASSEMBLY
182	SG-0009002-LA	1	SHIM PLATE, LA
150	SGB-0011976-04	2	SHIM, BUMPER
147	OR-0006870	1	O-RING
146	CS-0009431-04	1	O-RING
145	SG-0011623-04	1	CABLE CARRIER
144	SG-0010215-17	1	COVER, SKIRT JUNCTION
143	SG-0020116-04	1	GASKET, SKIRT JUNCTION
142	MN-0283510	6	M5 NUT, SER. HEX FLANGE
141	HG-0010229-01	1	CONDUIT, 1-1/4"
140	HG-0011259-05	1	FITTING, STRAIGHT 1-1/4"
139	6-0010331	1	PLUG, CAP
136	MS-0103615	5	M6 SCREW, SKHD CAP X 10MM
135	MW-0263610	19	M6 WASHER, STAR
129	MS-0303514	4	M5 SCREW, BUTT HD X 8MM
128	SG-0004990-49	1	COVER, END
126	SG-0010115-90	1	COVER, TOP
111	MS-0103520	8	M5 SCREW, SKHD CAP X 30MM
110	SG-0006481-01	2	GIB, GUIDE TRUCK
107	OR-0000406	4	O-RING
106	SG-0020115-49	1	COVER
105	SG-0004990-35	1	GUARD, MOTOR
104	SG-0000371-LABS	1	CARRIAGE, LOWER AXIS (BAL
103	MW-0183510	1	M5 WASHER, LOCK
102	SG-0000371-LA	1	CARRIAGE, LOWER AXIS (HYD
101	SGA-0004990-34	1	DEFLECTOR, LUBE
100	MS-0573822	1	SCREW, SET FLAT PT M8-1.2
99	MN-0153810	1	NUT, M8 HEX
98	SG-0008411	1	BLOCK, MOUNTING
97	MS-0103821	2	M8 SCREW, SKHD CAP X 35MM
92	SGA-0011027-R2-01	1	LABYRINTH, REAR LA
90	MS-0303616	14	M6 SCREW, BUTT HD X 12MM
88	SG-0006481-C	3	CLAMP, LINEAR GUIDE
86	SGA-0011027-R1-01	1	LABYRINTH, REAR LA
85	SG-0011027-LAF	1	LABYRINTH, FRONT
82	SG-0010215-09	1	MOUNT, LUBE REAR(RIGHT)
81	SG-0010215-10	1	MOUNT, LUBE REAR LEFT
76	MS-0103619	5	M6 SCREW, SKHD CAP X 25MM
73	SG-0003346-LA	1	BELT, LOWER AXIS DRIVE
72	SG-0003177-40-A	1	PULLEY ASSEMBLY
71	MW-0103510	16	M5 WASHER, FLAT
69	MS-0103516	15	M5 SCREW, SKHD CP x 12mm
ITEM	PART NUMBER	QTY	DESCRIPTION

68	CL-0002840-01	4	WASHER, FLAT 7/16 HARDENE
67	MW-0194210	4	M12 WASHER, LOCK
66	MS-0104222	4	M12 SCREW, SKHD CP x 40mm
65	SG-0010116-MM	1	GASKET, MOTOR MOUNT
64	SG-0010115-MM	1	COVER, MOTOR MOUNT
63	SG-0003177-64	1	PULLEY, 64T
62	SGA-0011682	1	BUSHING
61	MS-0104625	10	M16 SCREW, SKHD CP x 55mm
60	S-0010700-09	3	PLUG, LEE
59	SGA-0010115-LR	1	WAY COVER, L-A REAR
58	SGA-0010115-LF	1	WAY COVER, L-A FRONT
57	MS-0103617	8	M6 SCREW, SKHD CP x 16mm
56	MW-0193610	28	M6 WASHER, LOCK
55	MW-0103610	21	M6 WASHER, FLAT
53	MW-0193810	24	M8 WASHER, LOCK
52	SG-0010331-02	22	PLUG, LINEAR GUIDE
51	MS-0103821	22	M8 SCREW, SKHD CP x 35mm
50	SGA-0008316-06	1	LINEAR WAYS
47	CS-0001902-01	1	BALL SCREW, Z-AXIS
46	CS-0010994	9	GREASE, MOBIL 28
44	NC-0010884	2	ADHESIVE, LOCTITE#242
43	MW-0193510	27	M5 WASHER, LOCK
42	MS-0103517	2	M5 SCREW, SKHD CAP X 16MM
41	SG-0011976-LA	1	STOP, LOWER AXIS FORWARD
40	OR-0005256	1	O-RING
38	MS-0103616	12	M6 SCREW, SKHD CAP X 12MM
37	SG-0006001	1	CARRIAGE DRIVE HOUSING
36	OR-0132136	1	O-RING
35	HM-0009215	1	PLUG, PIPE
34	MW-0263510	38	M5 WASHER, STAR
33	MS-0303516	38	M5 SCREW, BUTT HD X 12MM
28	CSA-0000492	1	NUT, ADJUSTABLE SPIETH
27	CS-0011198-14	1	SEAL, LABYRINTH
26	CSA-0011137	1	RETAINER, BEARING
25	MS-0103819	24	M8 SCREW, SKHD CAP X 25MM
24	SG-0011776-LA	1	HOUSING, BEARING LOWER AX
22	SGA-0000262-LA	1	BED, LOWER AXIS
21	MS-0303515	8	M5 SCREW, BUTT HD X 10MM
19	CSA-0011976	2	BUMPER
18	MS-0103618	4	SCREW,SOC.HD.CAPM6-1X20MM
17	MS-0103818	25	M5 SCREW, SKHD CAP X 20MM
16	SB-010884-S	1.02	SEALANT,HYD.
15	MS-0553815	3	M8 SCREW, SK SET CUP PT.
14	CSA-0011776	1	HOUSING, BEARING
13	NC-0010884-01	5	ADHESIVE, LOCTITE #222
12	MS-0553411	1	M5 SCREW, SK SET CUP X 4M
11	BP-0000402	1	PLUG, BRASS
10	MS-0575018	1	M5 CUP PT X 5MM
9	MS-0553512	1	SCREW,SOC.SET,CUP PT.M5-
8	CH-0004732	1	PLUG, BRASS
7	CS-0000260-05	1	NUT, LOCK
6	CSB-0000343	1	RETAINER, BEARING
5	SG-0001799-LA	1	NUT, ADJUSTABLE SHOULDER
4	CS-0009431-25	1	O-RING
3	CS-0011198-03	2	SEAL
2	CSA-0004140	4	BEARING
1	CS-0009431-01	1	O-RING
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
LOWER AXIS DRIVE ASSEMBLY

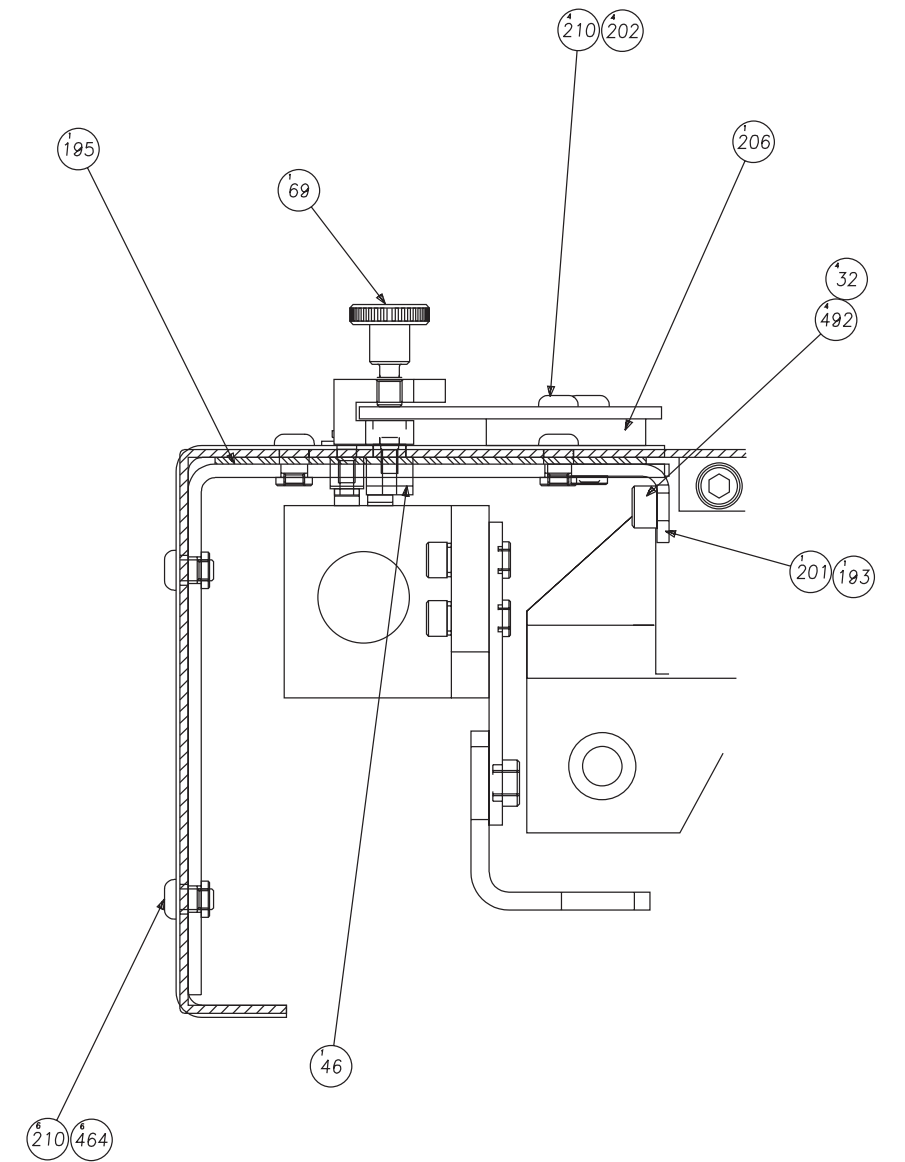
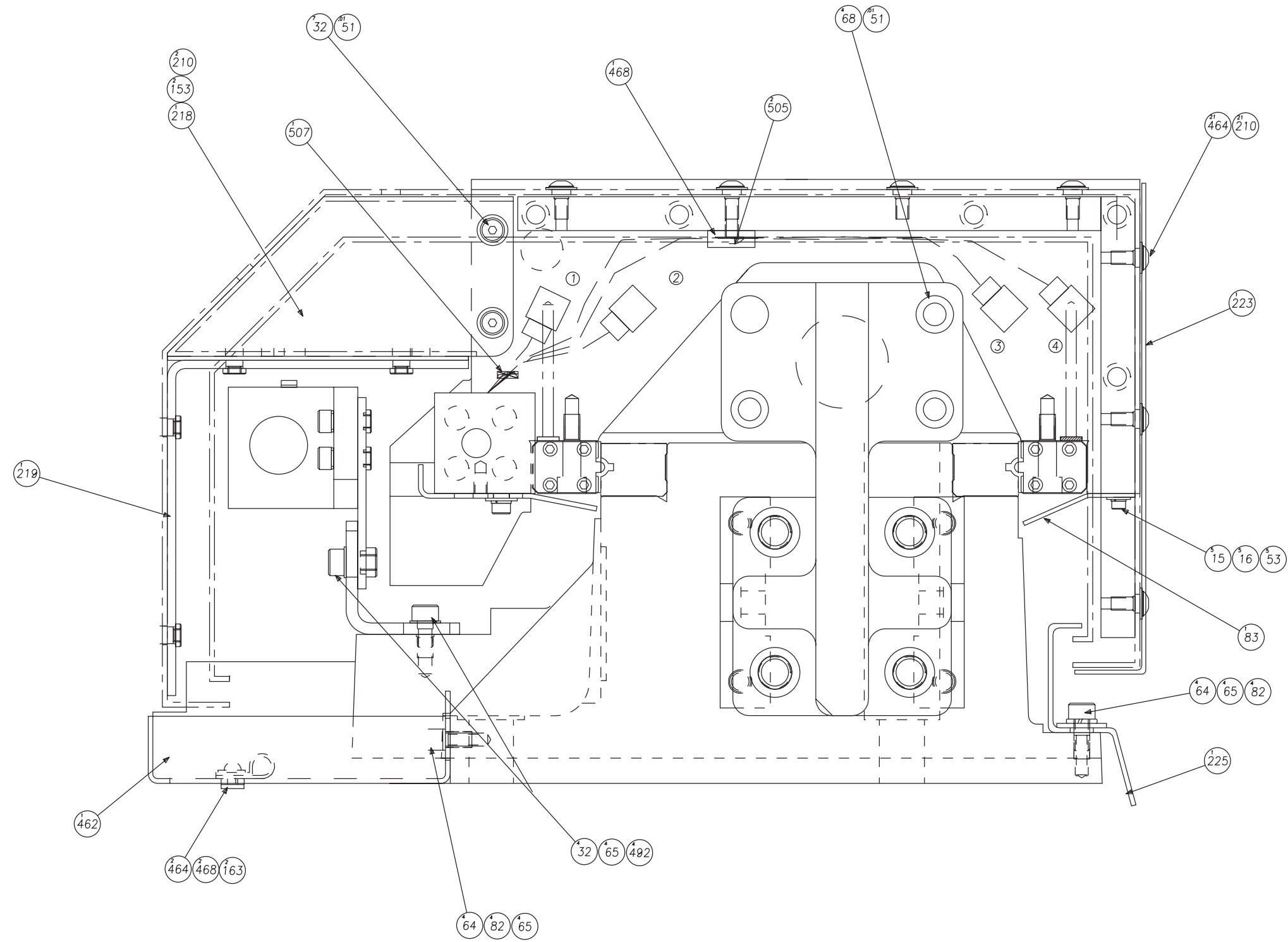
PART NUMBER
SGC-0006730-LA
SHEET 5 of 5



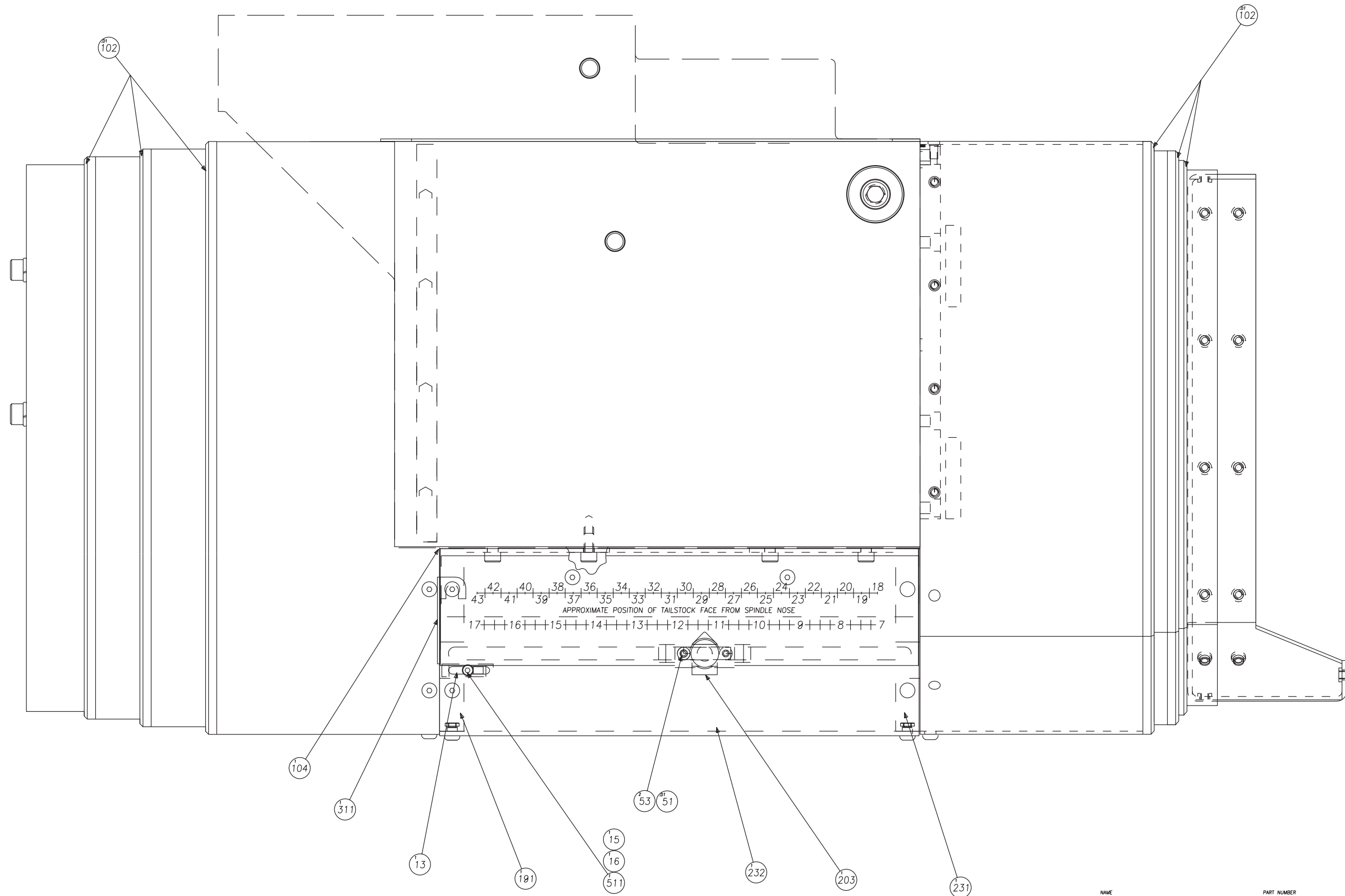
NAME
SUBBASE (TS & SEC OP SPIN) ASSEM SHEET

PART NUMBER
SGC-0000574-A
1 of 5

Lower Axis Sub-Base Assembly



NAME TAILSTOCK LAYOUT, END VIEW PART NUMBER SGC-0000574-A
 SHEET 2 of 5

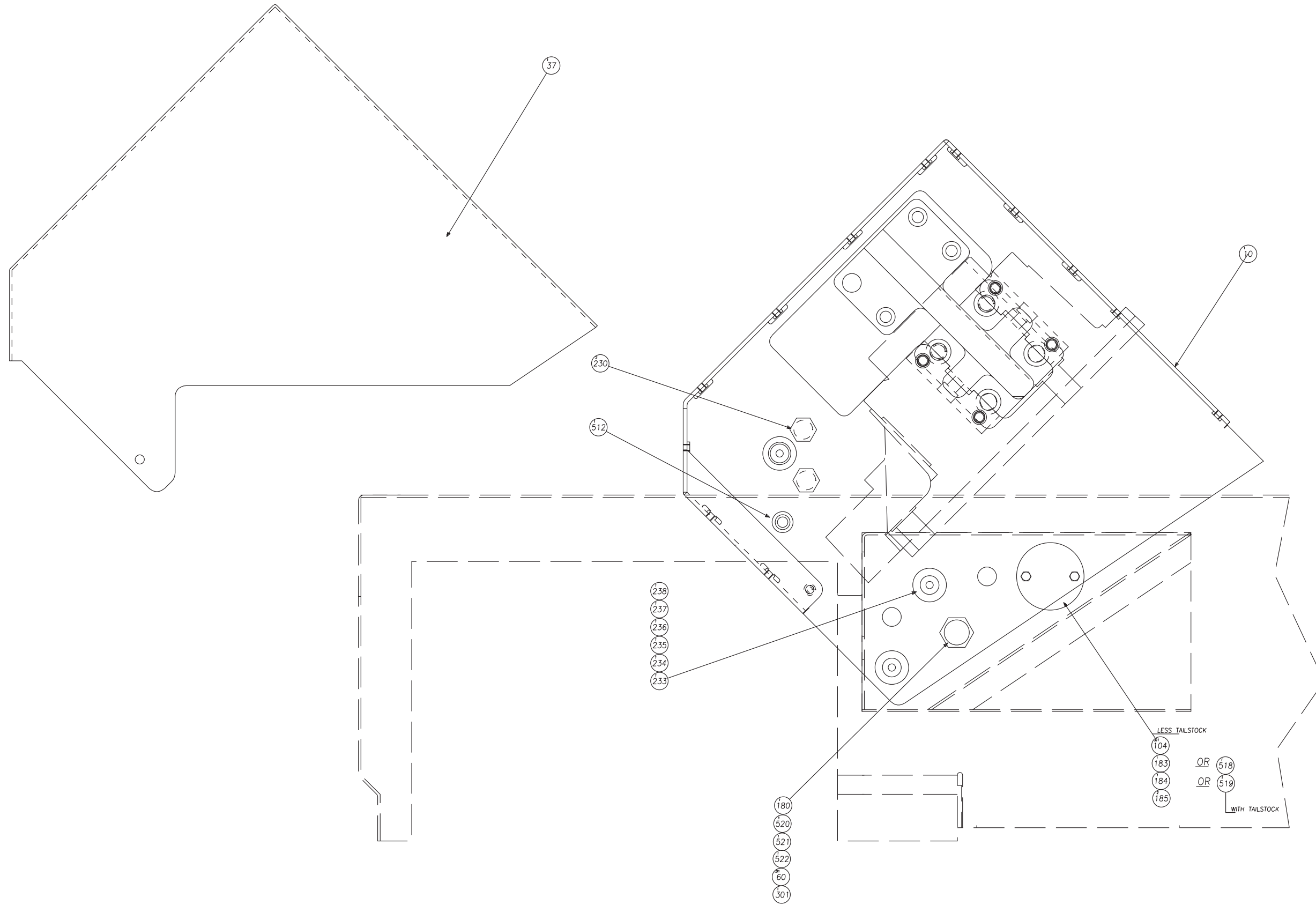


NAME
SUBBASE (TS & SEC OP SPIN) ASSEM

PART NUMBER
SGC-0000574-A

SHEET 3 of 5

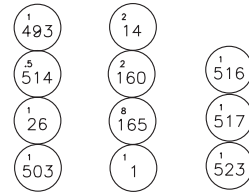
Lower Axis Sub-Base Assembly



NAME
SUBBASE ASSEMBLY

PART NUMBER
SGC-000574-A
SHEET 4 of 5

ITEMS NOT SHOWN

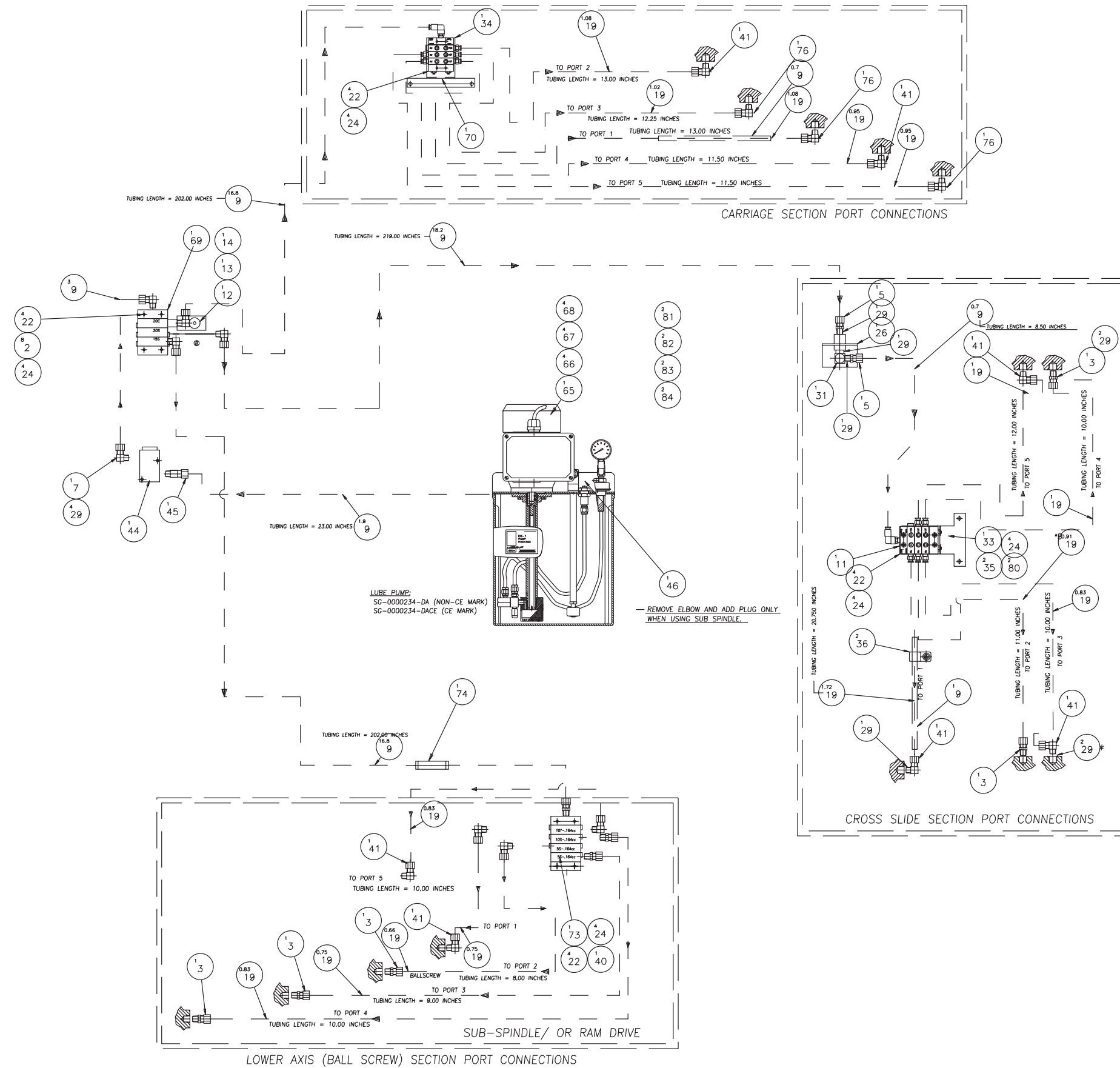


523	SG-0007702A1	1	CONNECTOR, MALE
522	HG-0011060	1	SLEEVE, COMPRESSION
521	HG-0011259	1	ADAPTER, ELBOW
520	CL-0011259-09	1	ADAPTER ASSEMBLY
519	SG-0004990-84	1	PLATE, COVER
518	SG-0004990-83	1	PLATE, COVER BACKING
517	SG-0000262-PB	1	BED, TAILSTOCK
516	CN-0011508	1	NUTS, GRIP
514	CS-0007007	.5	TUBING, NYLON
512	NC-0009532-05	1	GROMMET
511	MS-0103415	1	SCREW,SOC.HD.CAP M4
509	MS-0103818	8	SCREW,SOC.HD. M8
507	AD-0008104	3	TIE, PLASTIC
505	MS-0303513	2	SCREW,BT.HD. M5
503	SG-0010366-CE	1	TAG, TAILSTOCK PRESSURE/F
493	SG-0010366	1	TAG, TAILSTOCK
492	MW-0183610	8	WASHER, LOCK
468	CH-0009623-02	3	CLAMPS
465	NC-0009623-01	1	TIE CABLE
464	MS-0303515	56	SCREW,BT.HD. M5
462	SG-0002990-23	1	DEFLECTOR, TS LOWER
461	SG-0010115-TL	1	WAYCOVER, TAILSTOCK LEFT
311	SG-0010115-SC	1	SEAL, SUB COVER
301	CS-0009424	1	BUSHING
238	50-0010226	1	SEAL RING
237	AH-0011508	1	LOCKNUT
236	DB-0009207-9F	1	GROMMET
235	DB-0009207-W	1	WASHER
234	DB-0009207-9A	1	BODY
233	DB-0009207-9B	1	NUT
232	CS-0010115-6B	1	COVER, SLOT TAILSTOCK
231	CS-0010116-57	1	GASKET,RIGHT
230	CS-0007703-16	2	FITTING, BULKHD UNION
225	SG-0010115-8C	1	BRACKET, CHIP PROTECTOR
224	SG-0011931-P	1	MOUNT, CYLINDER
223	CS-0010115-8B	1	COVER, INSIDE
222	SG-0010115-TR	1	WAYCOVER, TAILSTOCK RIGHT
221	CSA-0000574-P	1	BASE, SUB TS
219	CS-0001990-7C	1	BRACKET, COVER
218	CS-0001990-6C	1	END PLATE, WAYCOVER
217	SG-0010824	2	BRACKET, WAYCOVER
215	CS-0010115-9B	1	COVER, PISTON NUT
214	CSA-0002840-02	1	WASHER, PISTON
213	CS-0000492-06	1	NUT, PISTON
212	CSA-0002917-P	1	CYLINDER, TS
210	WD-0009028	64	WASHER, LOCK
209	CS-0011104-01	1	ROD,LOCK
208	CS-0011104-02	1	ROD, M14
207	CS-0011104	1	ROD, STOP
206	CS-0010481-01	1	SPACER, COVER
ITEM	PART NUMBER	QTY	DESCRIPTION

203	CS-0009623-02	1	CLAMP,DOG
202	MS-0303519	4	SCREW,BT.HD. M5
201	CS-0010116-37	1	GASKET, TOP
195	CS-0010116-36	1	GASKET
193	CS-0003990-66	1	BRACKET, COVER TOP
191	CSA-0003990-65	1	BRACKET,COVER
185	MN-0283610	2	NUT, FLANGE M6
184	SG-0004990-55	1	PLATE, HOLE COVER
183	SG-0010115-91	1	COVER, HOLE
180	CN-0007703	1	CONNECTOR, ANCHOR
172	CS-0001914-04	2	PIPE PLUG
165	MS-0104625	8	M16 SCREW, SKHD CP x 55mm
163	MW-0103510	2	WASHER, FLAT
161	HS-0008384-23	1	ADAPTER, ALTERED
160	CL-0004629	2	PIN, DOWEL-PULLOUT
159	CLA-0010224-03	1	SWITCH, PROXIMITY
153	MS-0153515	6	SCREW,HEX HD.CAP M5
104	GE-0010884	1.01	SEALER
102	CT-0010440-01	0.1	GREASE
83	CS-0002990-44	1	GUARD, INSIDE DEFLECTION
82	MW-0183610	8	WASHER, LOCK M6
69	CSA-0009471-01	1	THUMBSCREW, DOG
68	MS-0103820	4	SCREW,SOC.HD M8
65	MW-0103610	12	WASHER, FLAT M6
64	MS-0103615	8	SCREW,SOC.HD. M6
60	SB-0010884-S	0.1	SEALANT, HYDRAULIC
53	MS-0103414	13	SCREW,SOC.HD. M4
52	CS-0002990-42	1	GUARD, FWD. DEFLECTION
51	NC-0010884	0.1	LOCTITE, ADHESIVE
49	CS-0011259-10	1	FITTING, MALE
46	CSB-0000571-03	1	DOG, LIMIT SWITCH
38	SGA-0000262-P	1	BED, TAILSTOCK
37	SG-0010115-7B	1	COVER, JUNCTION BOX
36	CSA-0010115-71	1	COVER, WAY BRACKET
35	MW-0183810	8	WASHER, LOCK M8
34	MS-0103816	4	SCREW,SOC.HD. M8
32	MS-0103617	20	SCREW,SOC.HD. M6
26	12-0009207-38	1	GRIP, CORD
25	CS-0008384-15	1	ADAPTER, 90 DEG
24	CS-0011780-01	1	SPRING, CONTINUOUS LENGTH
23	CS-0000480-02	1	TUBING, COIL
22	RH-0007491-06	2	STOP, BUTTON
19	SG-0011081-03	1	MOUNT, SWITCH
17	SG-0003011-C	1	CABLE SWITCH SUB-ASSEM
16	MW-0103410	12	WASHER, FLAT M4
15	MW-0183410	12	WASHER, LOCK M4
14	MS-0103416	2	M4 SCREW, SKHD CP x 12mm
13	CSB-0000571	1	DOG,LIMIT SWITCH SHORT
10	SGA-0010475-P	1	JUNCTION BOX TS
9	CS-0008316-03	2	LINEAR WAY
8	MS-0104221	8	SCREW,SOC.HD. M12
7	CSA-0007839-08	1	BRACKET,STOP
6	MN-0114410	2	NUT, HEX
4	MS-0573620	8	SCREW,SOC.SET M6
3	MN-0113610	8	NUT, HEX
2	CS-0009431-08	5	ORING, TS
1	SG-0002917-CE	1	CYLINDER, TAILSTOCK
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME SUBBASE ASSEMBLY PART NUMBER SGC-0000574-A SHEET 5 of 5

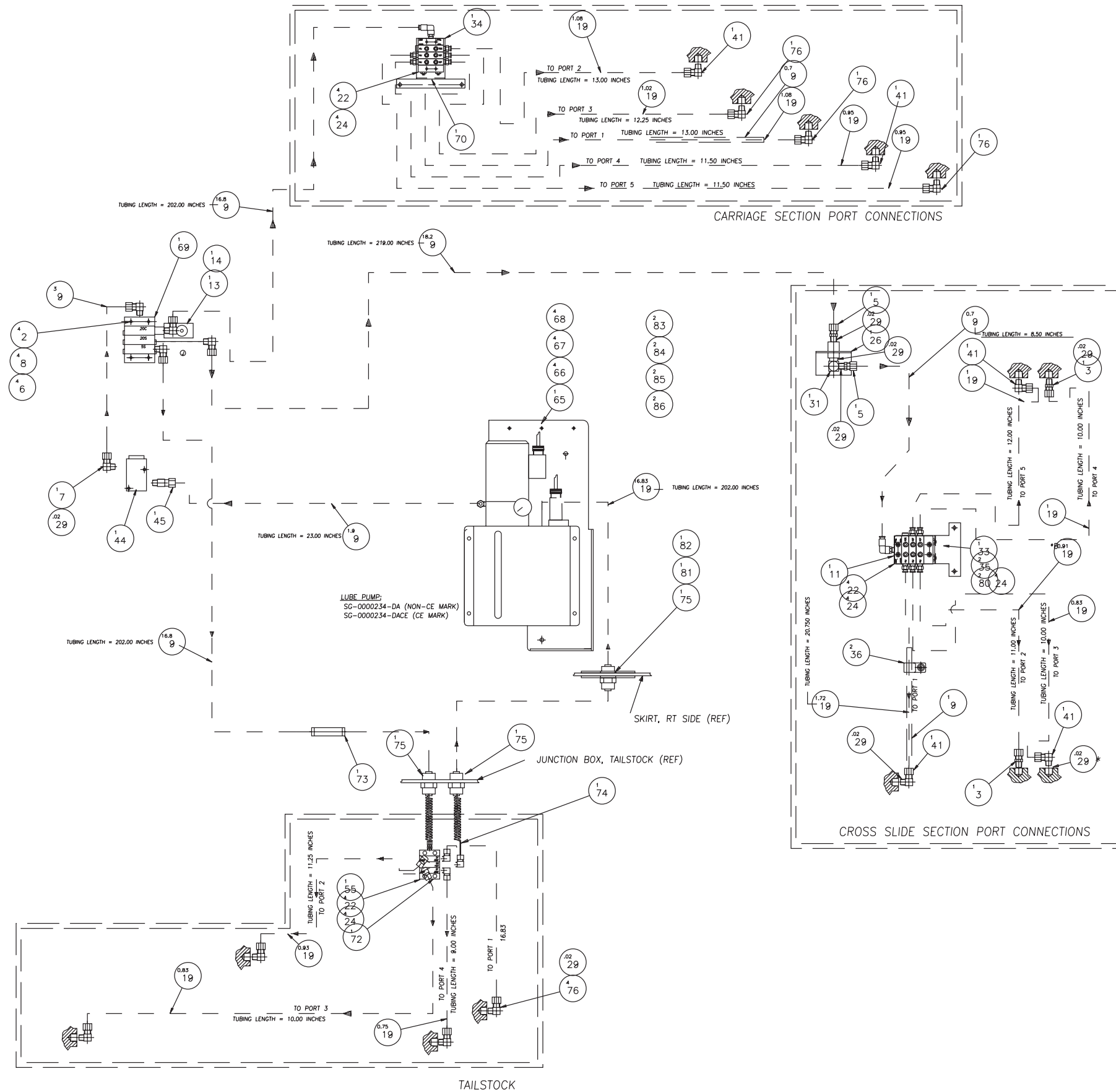
Lubrication System, Machine with Ball Screw Driven Lower Axis



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
2	MW 0103610	8.000	WASHER, FLAT M6
3	SG 0007702 A10	5.000	CONNECTOR,MALE 4MM OD X 1/8BSP
5	SG 0007702A2	2.000	CONNECTOR, MALE 1/4OD X 1/8NPT
7	SG 0007702A0	1.000	ELBOW,MALE SWIV 1/4ODX 1/4NPT
9	HG 000700702	59.100	TUBING, 1/4 OD
11	SG 0003048T2	1.000	BLOCK,MANIFOLD LUBE FEEDER
12	18 000920750	1.000	GRIP,CORD .187-.312 1/2 DIA
13	50 0010226	1.000	GASKET ASSEM. 1/2 INCH
14	AH 0011508	1.000	NUT,LOCK
19	SG 0007007 T	14.360	TUBING, 5/32 OD
22	MS 0103522	16.000	SCREW, M5-.8 X 40MM
24	MW 0183610	20.000	M5 REG. LOCKWASHER
26	CL 00020034	1.000	BRACKET, LUBE LINE
29	SB 0010884 S	12.000	SEALANT, HYDRAULIC
31	CT 000770001	1.000	ELBOW, 90 DEG.
33	SG 00030044 T	1.000	BRACKET, CROSS SLIDE LUBE
34	SG 00030043 T	1.000	BRACKET, CARRIAGE LUBE
35	MS 0103410	2.000	SCREW, SKHD M5-.8 X 25mm
36	CH 000962302	2.000	CLAMP, CABLE
40	SG 00030041 T	1.000	MOUNT,LUBE BLOCK
41	SG 0007702 A12	7.000	ELBOW,MALE SWIV 5/32OD X 1/8BSP
44	SG 0011614 T	1.000	FILTER
45	SG 0007702A3	1.000	CONNECTOR,MALE 1/4OD X 1/4NPT
46	5 0001467	1.000	PLUG, PIPE 1/8 NPT
65	SGA00020032T1	1.000	BRACKET LUBE TANK
66	MS 0103810	4.000	M8 SCREW SKHD X 20 mm
67	MW 0103810	4.000	M8 WASHER LOCK
68	MW 0103810	4.000	M8 WASHER FLAT
69	SG 0003048TT	1.000	BLOCK, MASTER LUBE FEEDER
70	SG 0003048T1	1.000	BLOCK, MANIFOLD FEEDER
73	SG 0003048T4	1.000	BLOCK, MANIFOLD LUBE FEEDER
74	VL 000770221	1.000	CONNECTOR, UNION
76	SG 0007702 A11	3.000	CONNECTOR,MALE EL4MM X 1/8BSP
80	MW 0103510	2.000	WASHER, M5 FLAT
81	DB 00092079A	2.000	BODY CONNECTOR
82	DB 00092079B	2.000	NUT CONNECTOR COMPRESS
83	DB 00092079F	2.000	GROMMET
84	DB 0009207 W	2.000	WASHER CONNECTOR

NAME
TRABON LUBE
LOWER AXIS

PART NUMBER
SGA0000234LA
SHEET 1 of 1

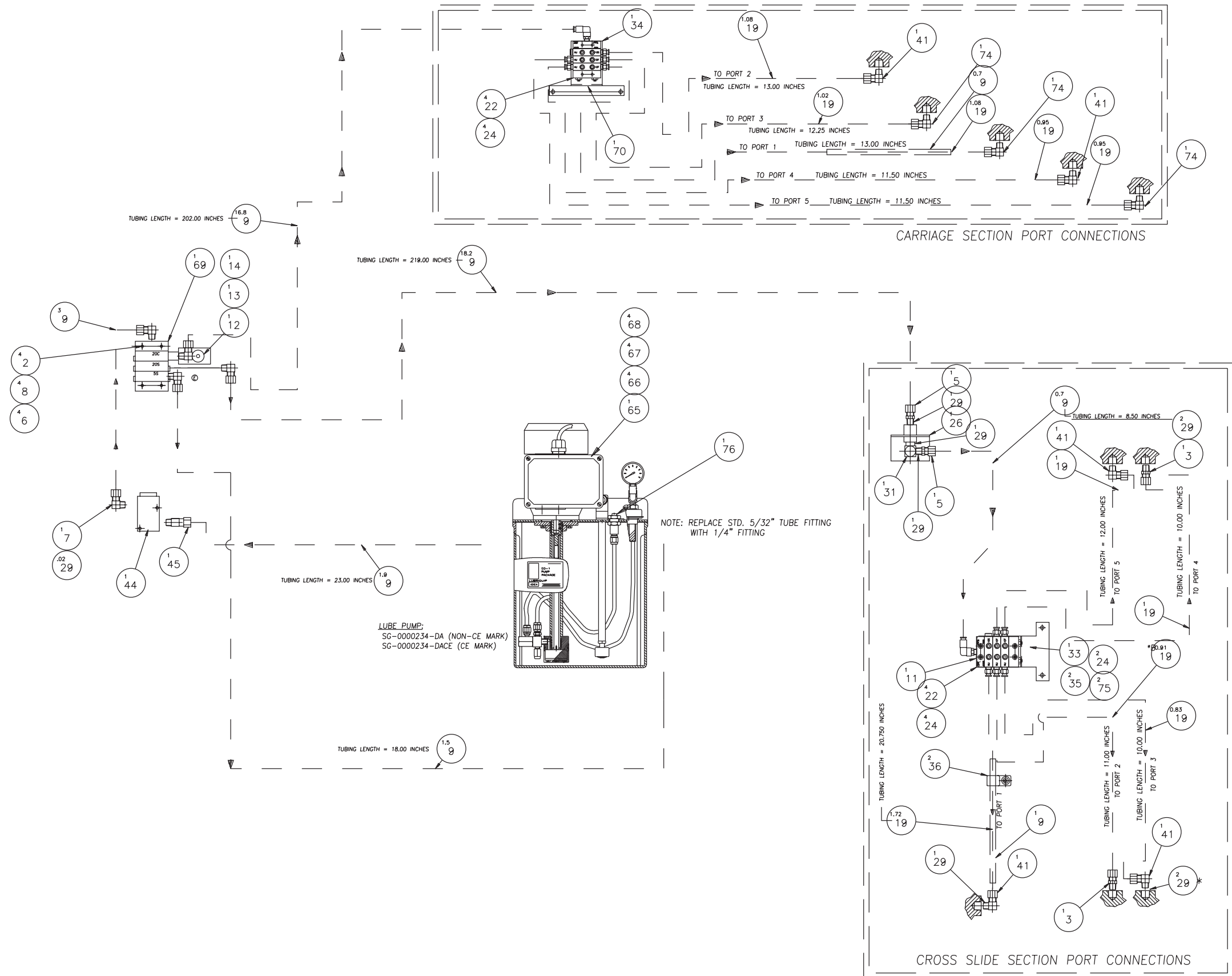


ITEM	PART NUMBER	QUANTITY	DESCRIPTION
2	MS 0103622	4.000	SCREW, SKHD CAP M6x40mm
3	SG 0007702 A10	2.000	CONNECTOR,MALE 4MM OD X 1/8BSPT
5	SG 0007702A2	2.000	CONNECTOR, MALE 1/4OD X 1/8NPT
6	MW 0183610	4.000	LOCKWASHER, REG M6
7	SG 0007702A8	1.000	ELBOW,MALE SWIV 1/4ODX 1/4NPT
8	MW 0103610	4.000	WASHER, FLAT M6
9	HG 000700702	59.100	TUBING, 1/4 OD
11	SG 0003048T2	1.000	BLOCK,MANIFOLD LUBE FEEDER
13	SO 0010226	1.000	GASKET
14	AH 0011508	1.000	NUT,LOCK
19	SG 0007007 T	29.880	TUBING, 5/32 OD
22	MS 0103522	12.000	SCREW, M5-.8 X 40MM
24	MW 0183510	16.000	M5 REG. LOCKWASHER
26	CL 000299034	1.000	BRACKET, LUBE LINE
29	SB 0010884 S	0.160	SEALANT, HYDRAULIC
31	CT 000770901	1.000	ELBOW, 90 DEG.
33	SG 000399044 T	1.000	BRACKET, CROSS SLIDE LUBE
34	SG 000399043 T	1.000	BRACKET, CARRIAGE LUBE
35	MS 0103517	2.000	SCREW, SKHD M5-.8 X 16MM
36	CH 000962302	2.000	CLAMP, CABLE
41	SG 0007702 A12	5.000	ELBOW,MALE SWIV 5/32OD X 1/8BSPT
44	SG 0011614 T	1.000	FILTER
45	SG 0007702A3	1.000	CONNECTOR,MALE 1/4OD X 1/4NPT
55	SGA000399042 T	1.000	BRACKET, TAILSTOCK LUBE
65	SGA000299032T1	1.000	BRACKET LUBE TANK
66	MS 0103810	4.000	M8 SCREW SKHD X 20 mm
67	MW 0183810	4.000	M8 WASHER LOCK
68	MW 0103810	4.000	M8 WASHER FLAT
69	SG 0003048 T	1.000	BLOCK, MASTER LUBE FEEDER
70	SG 0003048T1	1.000	BLOCK, MANIFOLD FEEDER
72	SG 0003048T3	1.000	BLOCK, MANIFOLD LUBE FEEDER
73	VL 000770221	1.000	CONNECTOR, UNION
74	CS 000048002	1.000	TUBING, COIL
75	CS 000770316	3.000	BULKHEAD, UNION 5/32 OD
76	SG 0007702 A11	7.000	CONNECTOR,MALE EL4MM X 1/8BSPT
80	MW 0103510	2.000	WASHER, M5 FLAT
81	SG 000499084	1.000	PLATE, BACKING
82	SG 000499083	1.000	PLATE, COVER BACKING
83	DB 00092079A	2.000	BODY CONNECTOR
84	DB 00092079B	2.000	NUT CONNECTOR COMPRESS
85	DB 00092079F	2.000	GROMMET
86	DB 0009207 W	2.000	WASHER CONNECTOR

NAME
TRABON LUBE

PART NUMBER
SG 0000234 T
SHEET
1 of 1

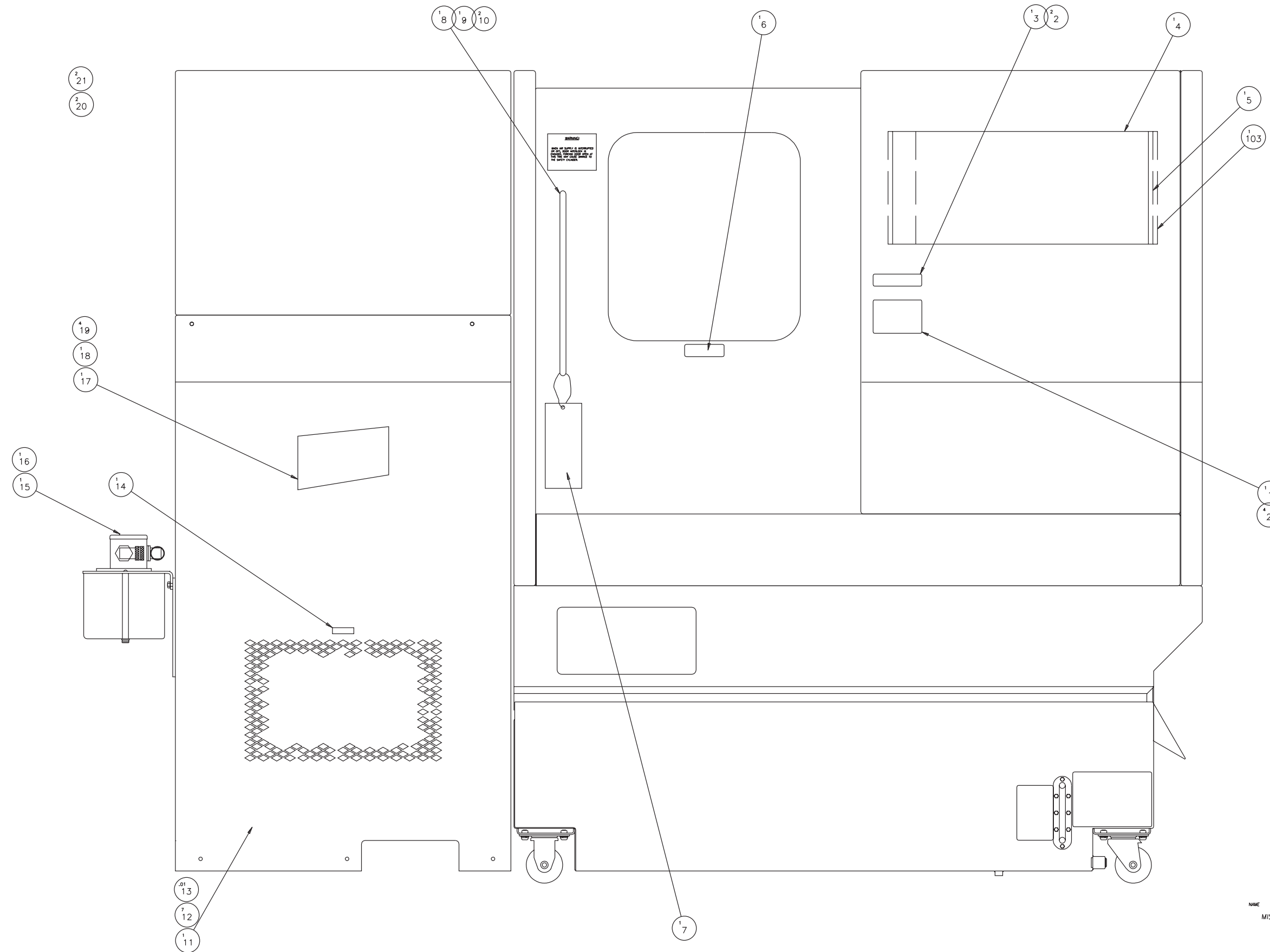
Lubrication System, Machine without Lower Axis



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
2	MS 0103622	4.000	SCREW, SKHD CAP M6x40mm
3	SG 0007702 A10	2.000	CONNECTOR,MALE 4MM OD X 1/8BSPT
5	SG 0007702A2	3.000	CONNECTOR, MALE 1/4OD X 1/8NPT
6	MW 0183610	4.000	LOCKWASHER, REG M6
7	SG 0007702A9	1.000	ELBOW,MALE SWIV 1/4ODX 1/4NPT
8	MW 0103610	4.000	WASHER, FLAT M6
9	HG 000700702	43.800	TUBING, 1/4 OD
11	SG 0003048T2	1.000	BLOCK,MANIFOLD LUBE FEEDER
12	18 000920750	1.000	GRIP,CORD .187-.312 1/2 DIA
13	50 0010226	1.000	GASKET ASSEM. 1/2 INCH
14	AH 0011508	1.000	NUT,LOCK
19	SG 0007007 T	10.540	TUBING, 5/32 OD
22	MS 0103522	8.000	SCREW, M5-.8 X 40MM
24	MW 0183510	10.000	M5 REG. LOCKWASHER
26	CL 000299034	1.000	BRACKET, LUBE LINE
29	SB 0010884 S	8.020	SEALANT, HYDRAULIC
31	CT 000770901	1.000	ELBOW, 90 DEG.
33	SG 000399044 T	1.000	BRACKET, CROSS SLIDE LUBE
34	SG 000399043 T	1.000	BRACKET, CARRIAGE LUBE
35	MS 0103517	2.000	SCREW, SKHD M5-.8 X 16MM
36	CH 000962302	2.000	CLAMP, CABLE
41	SG 0007702 A12	5.000	ELBOW,MALE SWIV 5/32OD X 1/8BSPT
44	SG 0011614 T	1.000	FILTER
45	SG 0007702A3	1.000	CONNECTOR,MALE 1/4OD X 1/4NPT
65	SG 000299032T1	1.000	BRACKET LUBE TANK
66	MS 0103818	4.000	M8 SCREW
67	MW 0193810	4.000	M8 WASHER, LOCK
68	MW 0103810	4.000	M8 WASHER, FLAT
69	SG 0003048 T	1.000	BLOCK, MASTER LUBE FEEDER
70	SG 0003048T1	1.000	BLOCK, MANIFOLD FEEDER
74	SG 0007702 A11	3.000	CONNECTOR,MALE EL4MM X 1/8BSPT
75	MW 0103510	2.000	WASHER, M5 FLAT

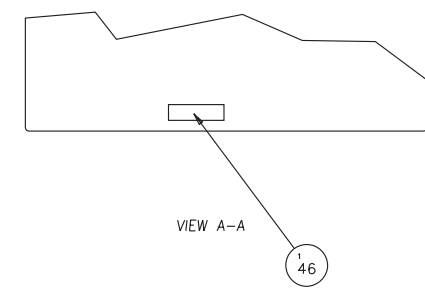
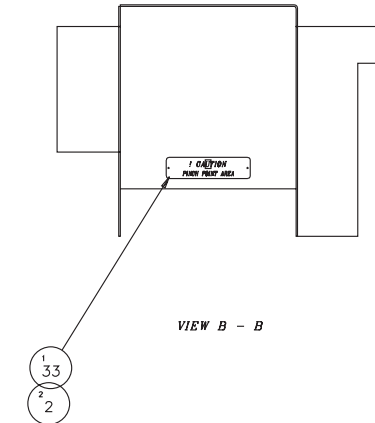
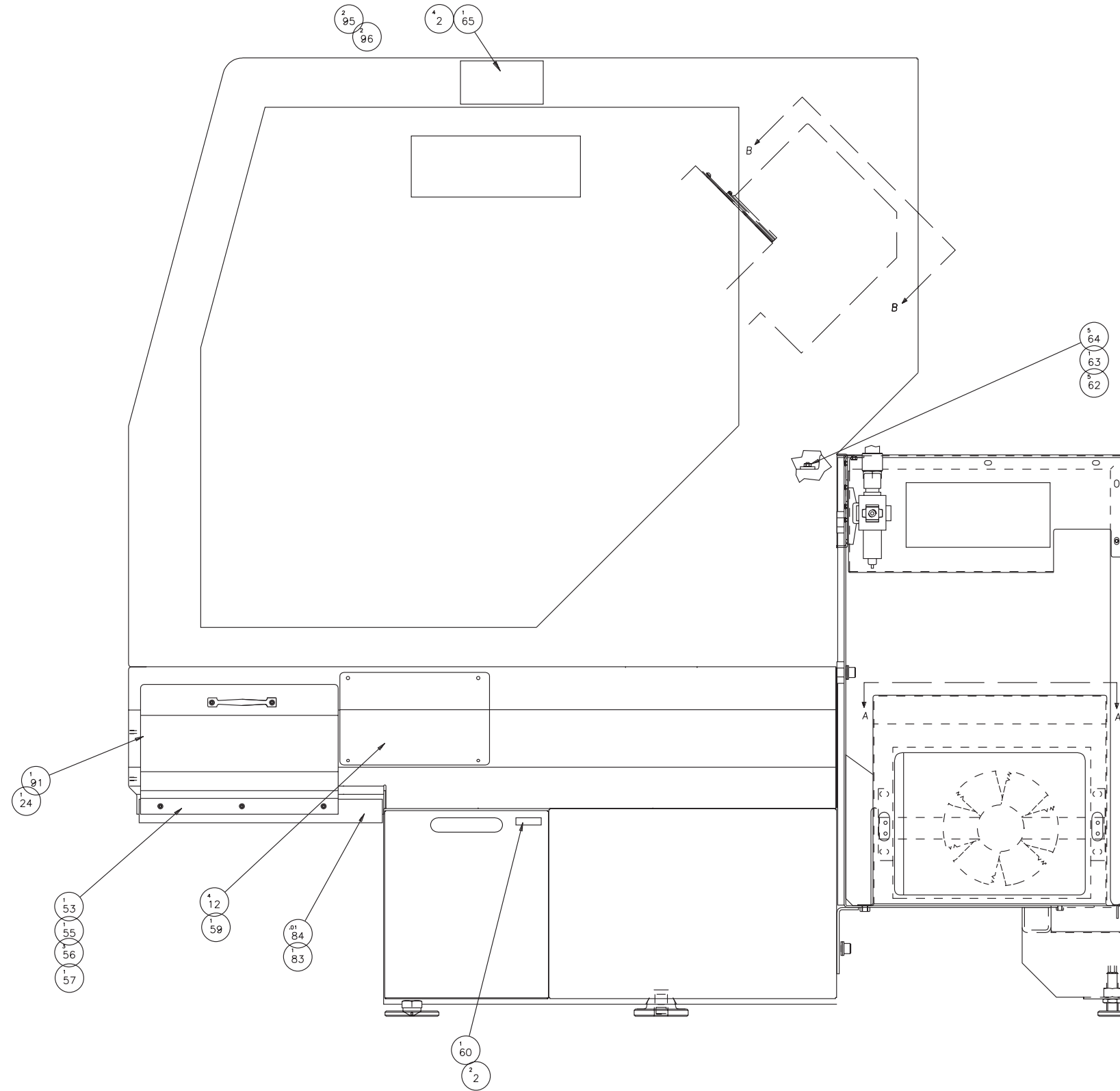
NAME
 TRABON LUBE
 LESS TAILSTOCK

PART NUMBER
 SG 0000234LT
 SHEET 1 of 1



NAME MISCELLANEOUS COMPONENTS PART NUMBER SGA-0001111
 SHEET 1 of 5

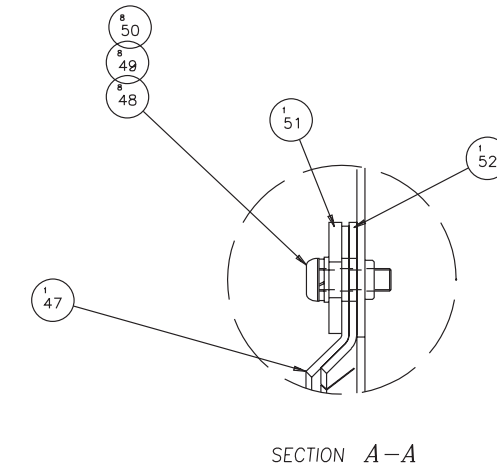
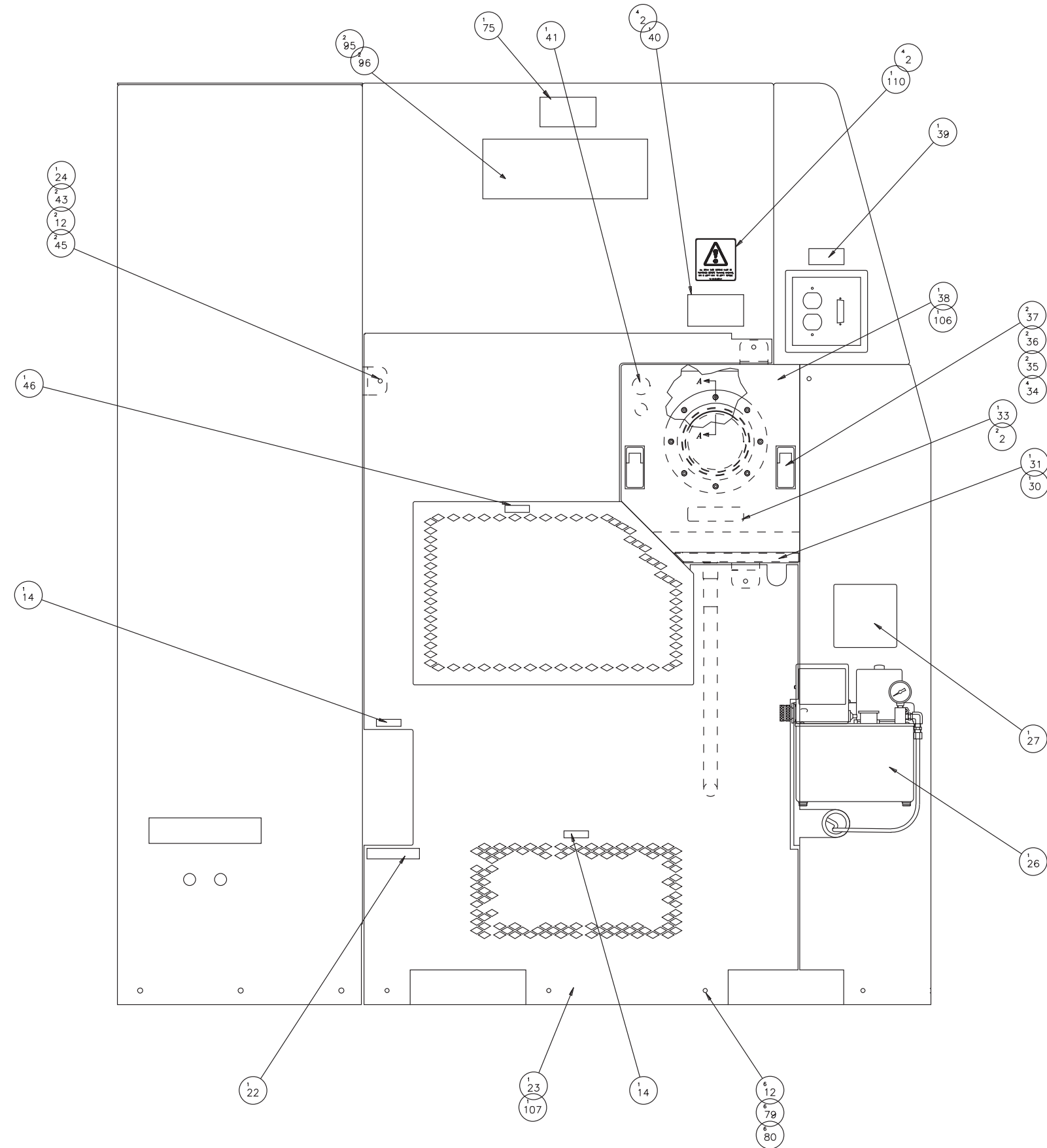
Miscellaneous Components



NAME
MISCELLANEOUS COMPONENTS

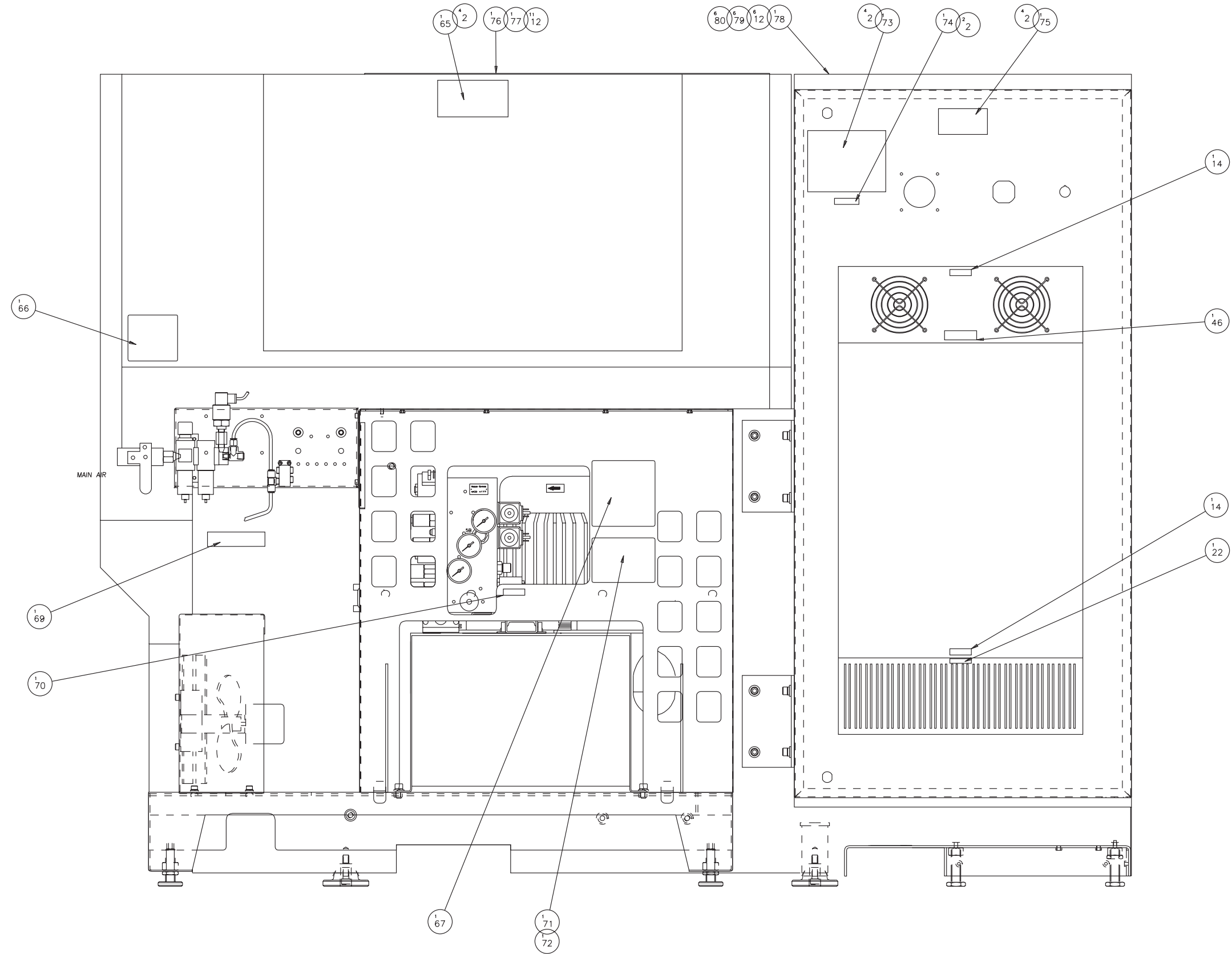
PART NUMBER
SGA-0001111

SHEET
2 OF 5



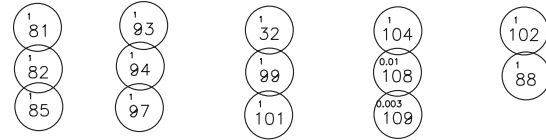
NAME MISCELLANEOUS COMPONENTS PART NUMBER SGA-0001111 SHEET 3 of 5

Miscellaneous Components



NAME
MISCELLANEOUS COMPONENTS

PART NUMBER
SGA-0001111
SHEET 4 of 5



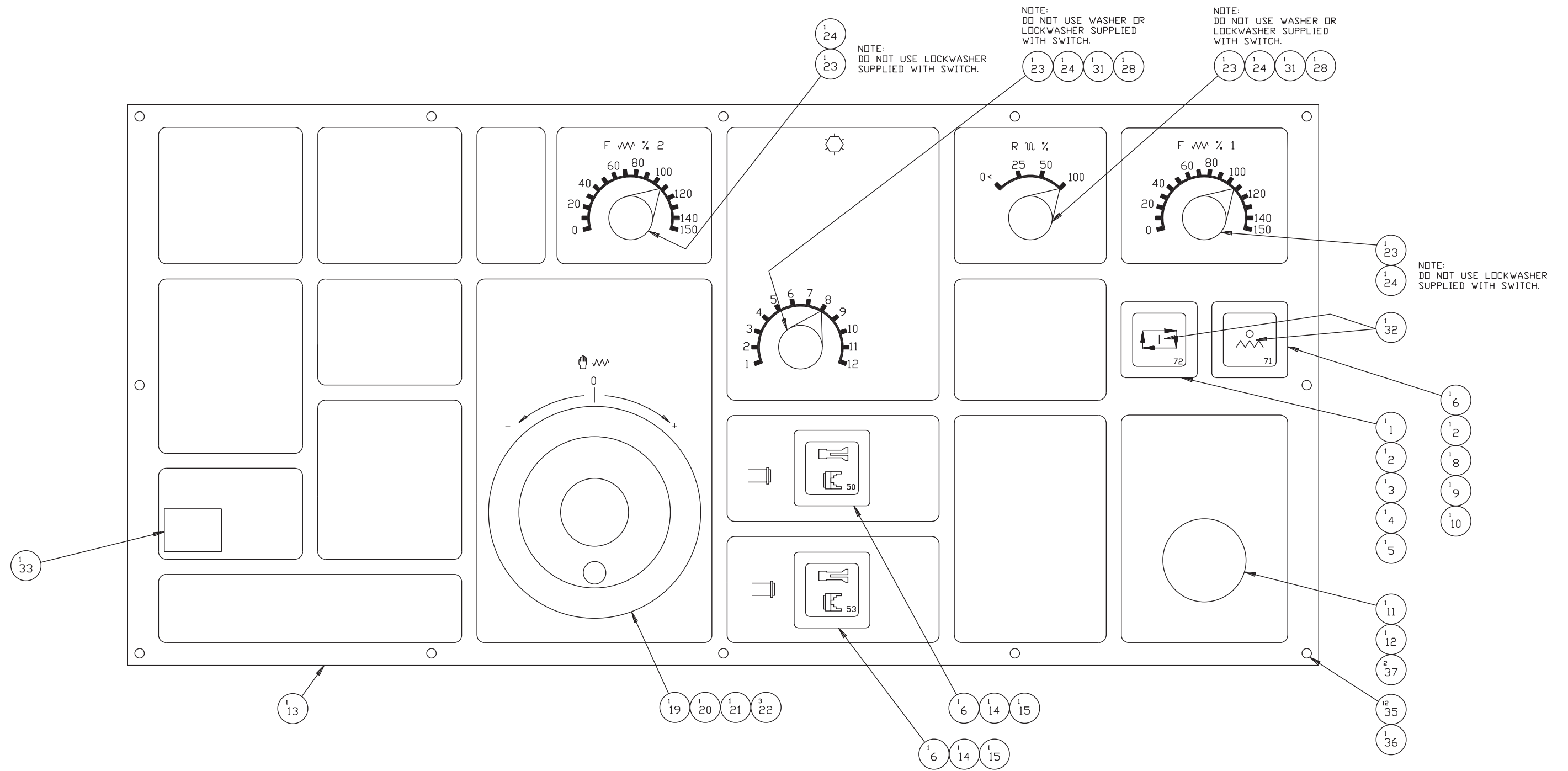
110	SG-0010302-01CE	1	TAG, DRAW TUBE SCREWS
109	CL-0011898	.003	TAPE, OVER LAMINATE
108	CL-0010884-01	.01	ADHESIVE, SPRAY
107	SG-0010115-BF	1	MOTOR COVER ASSEMBLY
106	SG-0010115-A1	1	COLLET CLOSER DR. ASSEMBL
104	SG-0010366-04 L	1	TAG SUPER PREC.
103	SG-0010366-03-L	1	TAG, CONQUEST T-42-L
102	SG-0009610-SK	1	FUSES REPLACEMENT
101	HG-0012153	1	INSERT TUBING
99	H-0009500-0992	1	TAG ATTEN OPERATION
97	HG-0010541	1	BUMPER
96	SG-10366-10	4	TAG-HARDINGE-USA
95	SG-10366-09	4	TAG-HARDINGE-USA
94	6-0010331	1	CAP PLUG
93	AD-0010912	1	OIL (DTE-13)
91	SG-0008265	1	NUT
88	HGA-0011259-08	1	COUPLING
85	SB-0011614-F	1	ELEMENT, FILTER
84	GE-0010884	.01	SEALER
83	SG-0009976	1	COVER, SKIRT
82	SG-0020115-18	1	COVER
81	SG-0010115-68	1	COVER
80	MW-0183610	12	LOCKWASHER
79	MW-0103610	12	WASHER, M6
78	SG-0020115-48	1	COVER
77	SG-0010115-WB01	1	COVER, REAR GUARD (STD)
76	SG-0010115-BW	1	COVER, REAR DOOR
75	CSA-0010302-03	2	TAG - CAUTION ELECTRICAL
74	CN-0001535	1	PLATE, SERIAL NO.
73	CL-0008074	1	TAG, DATA PLATE
72	SG-0010366-02CE	1	TAG, BIG BORE CLOSER FORC
71	SGC-0010366-01	1	TAG, COLLET CLOSER FORCE
70	ADA-0010522	1	OIL SPECIFICATION LABEL
69	CS-0010302-07	1	TAG - CAUTION DRAIN FILTE
67	SG-0010366	1	TAG, COLLET CLSR-TAILSTOC
66	CL-0010366-11	1	TAG, PNEUMATIC SCHEMATIC
ITEM	PART NUMBER	QTY	DESCRIPTION

65	CS-0010302-01	2	TAG, CAUTION-ACCESS COVER
64	MN-0283610	5	NUT, FLANGED M6
63	SG-0002990	1	PLATE, CLAMPING
62	MS-0573620	5	SCREW, SOCKET SET
60	CS-0010522	1	TAG, LUBRICATION
59	SG-0020115-33	1	COVER, SKIRT
57	SG-0000221-77	1	COVER, SKIRT
56	MS-0303515	3	SCREW, BT HD M5 X 0.8 X 1
55	CG-0010642	1	HANDLE
53	CSA-0002990-82	1	RETAINER, SPLASH STRIP
52	CL-0010449-05	1	GUARD, COLLET CLOSER
51	SG-0004990-53	1	RETAINER, SPLASH (COOLANT
50	MS-0303517	8	M5 SCREW, BT HD X 16MM
49	MW-0183510	8	WASHER, LOCK REGULAR M5
48	MW-0103510	8	M5 WASHER, FLAT
47	CL-0010449-04	1	GASKET, GUARD COLLET CLOS
46	CC-0010302-01	3	TAG, FAN WARNING
45	MW-0263610	2	WASHER, STAR EXT. M6 X 1.
43	HG-0010598	2	HANGER, COVER
41	CN-0009532-04	1	GROMMET
40	SB-0010302-06	1	TAG, WARNING BAR STOCK
39	CS-0010302-R2	1	TAG, RS232
38	SG-0010115-25	1	COVER, COOLANT CATCHER
37	HGA-0011738-04	2	LATCH, BLACK
36	CSA-0011738-02	2	LATCH
35	CN-0010116-62	2	GASKET
34	CN-0011198-01	4	TRIM-SEAL
33	CS-0010302-02	2	TAG, CAUTION PINCH POINT
32	CS-0010302	1	TAG CAUTION
31	SG-0002533-WA	1	ASSEMBLY COOLANT CATCHER
30	SG-0002533-BB	1	ASSEMBLY COOLANT CATCHER
27	SG-0010366-05	1	TAG, LUBE SCHEMATIC
26	RF-0011971	1	BAG
24	MN-0283510	2	M5 FLANGE NUT
23	SG-0010115-MC	1	COVER, MOTOR COMP. WELD A
22	AD-0011350-01	2	TAG
21	CS-0011255-L	2	LABEL DISKETTE
20	CS-0011255-01	2	DISKETTE
19	CN-0007707	4	NUT
18	CS-0000256-07	1	TAG, HARDINGE
17	CS-0000256-01	1	TAG, HARDINGE
16	CSA-0010522-02	1	TAG, LUBRICATION INSTRUCT
15	CS-0010522-04	1	TAG, ID
14	CCA001030202CE	5	TAG - AIR INLET
13	NC-0010884	.01	LOCTITE #242
12	MS-0303615	36	SCREW, BT HD M6 X 1.0 X 1
11	SG-0010115-12	1	LEFT END WELD ASSY
10	0300512	2	SCREW
9	CS-0011948-01	1	HANDLE, SP
8	SB-0010642-01	1	HANDLE
7	H-0009500-0984	1	TAG, THRU SPINDLE HANGING
6	CS-0010302-W	1	TAG, CAUTION WINDOW
5	SG-0010366-04	1	TAG, CONQUEST 42
4	SG-0010366-03	1	TAG, CONQUEST 42
3	CN-0010302-01	1	TAG, WARNING
2	R-0008044	38	PIN, ESCUTCHEON
1	CS-0010302-08	1	TAG, WARNING
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
MISCELLANEOUS COMPONENTS

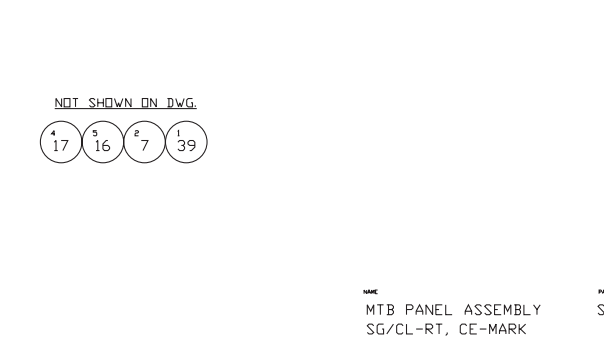
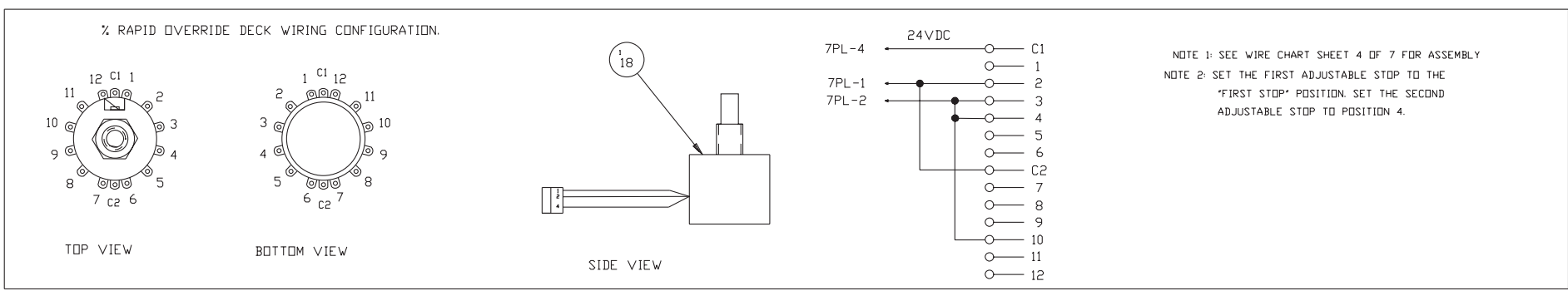
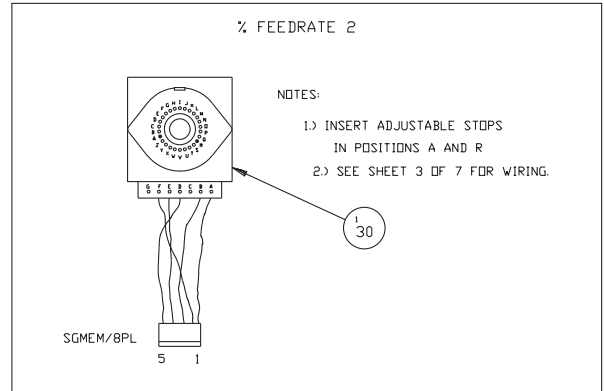
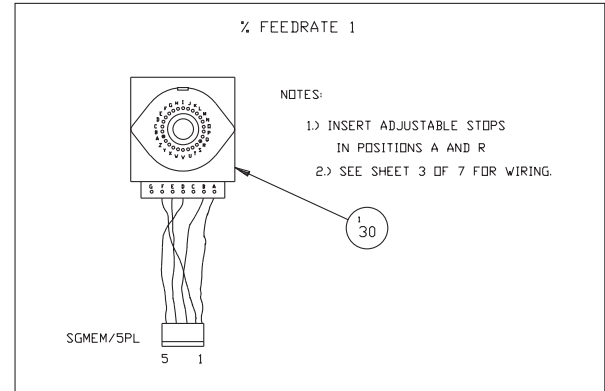
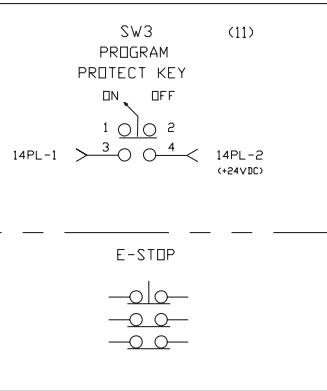
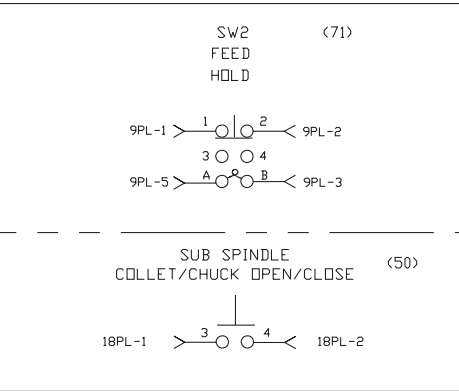
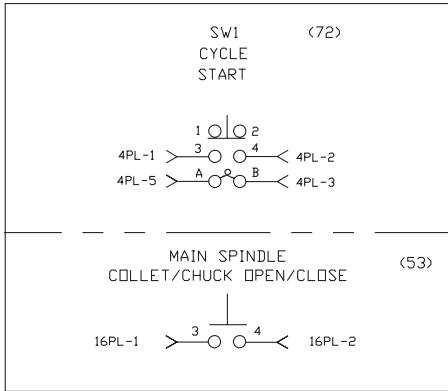
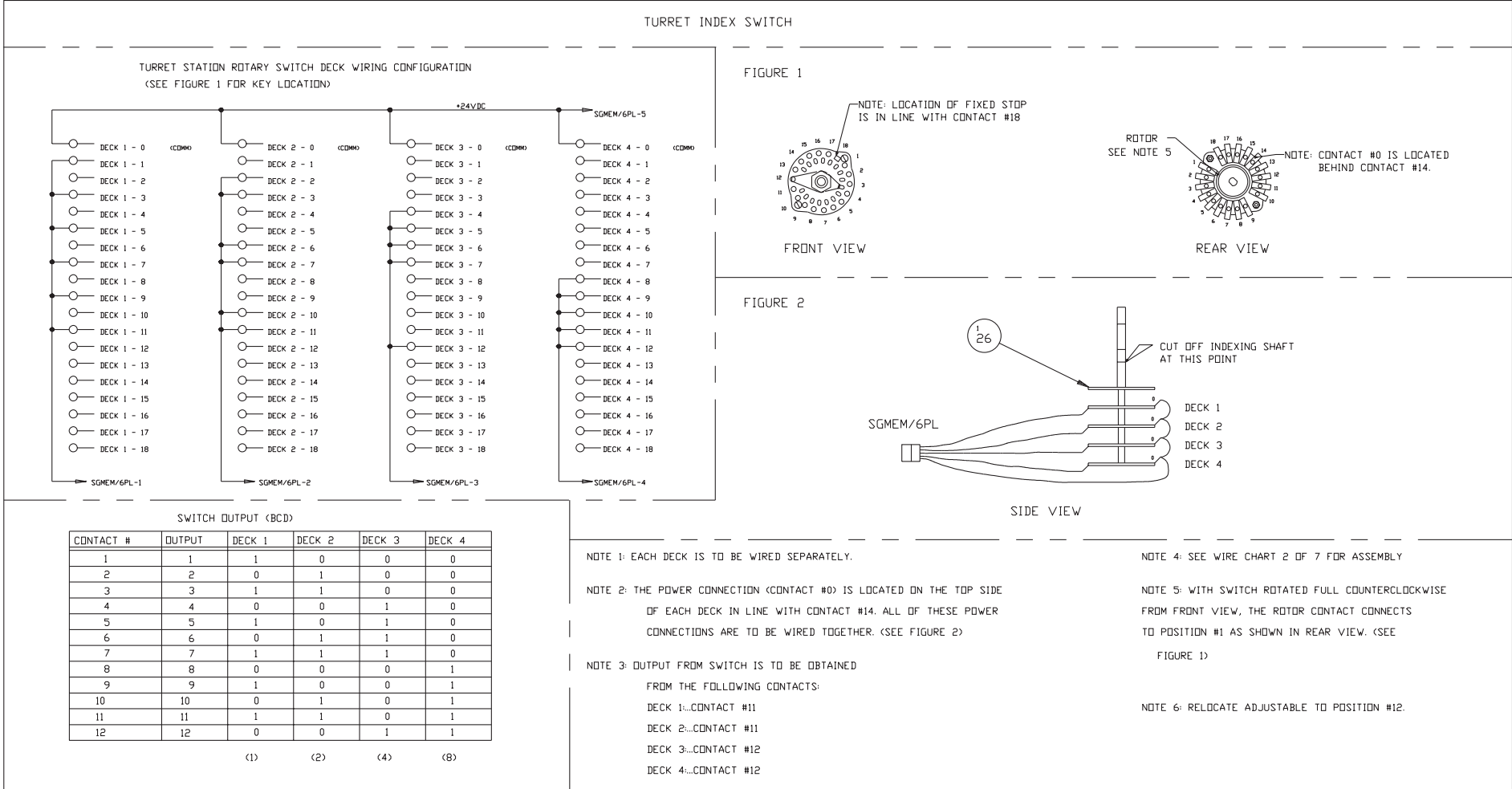
PART NUMBER
SHEET 5 of 5

Operator Control Panel, Machine with Ram Turret, CE Mark



NAME
MTB PANEL ASSEMBLY
SG-RT CEMARK

PART NUMBER
SG 0011844RT E



NAME: MTB PANEL ASSEMBLY SG/CL-RT, CE-MARK
 PART NUMBER: SG 0011844RT E

Operator Control Panel, Machine with Ram Turret, CE Mark

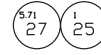
PROGRAM PROTECT/CYCLE START/FEED HOLD/COLLET-CHUCK

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
----	----	2210002874BU	10.5'	CN 000918802	CN 00120422R	PROGRAM PROTECT-3	14PL-1
----	----	2210002874BU	10.5'	CN 000918802	IDC	PROGRAM PROTECT-4	14PL-2
----	----	2210002874BU	20.5'	CK 000918820	CN 00120425R	CYCLE START-3	4PL-1
----	----	2210002874BU	19.5'	CK 000918820	IDC	CYCLE START-4	4PL-2
----	----	2210002874BU	20.0'	CK 000918820	IDC	CYCLE START-X2	4PL-5
----	----	2210002874BU	18.5'	CK 000918820	IDC	CYCLE START-X1	4PL-3
----	----	2210002874BU	18.5'	CK 000918820	CN 00120425R	FEED HOLD-1	9PL-1
----	----	2210002874BU	16.5'	CK 000918820	IDC	FEED HOLD-X2	9PL-5
----	----	2210002874BU	18.0'	CK 000918820	IDC	FEED HOLD-X1	9PL-3
----	----	2210002874BU	17.5'	CK 000918820	IDC	FEED HOLD-2	9PL-2
----	----	2210002874BU	10.0'	CK 000918820	CN 00120422R	MAIN CHUCK-3	16PL-1
----	----	2210002874BU	10.0'	CK 000918820	IDC	MAIN CHUCK-4	16PL-2
----	----	2210002874BU	9.0'	CK 000918820	CN 00120422R	SUB CHUCK-3	18PL-1
----	----	2210002874BU	9.0'	CK 000918820	IDC	SUB CHUCK-4	18PL-2



ROTARY TURRET

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
1BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 1-0	SW DECK 2-0
2BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 2-0	SW DECK 3-0
3BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 3-0	SW DECK 4-0
4BRF	----	2210002874BU	7.0'	ST-1/8	CN 00120425R	SW DECK 4-0	6PL-5
5BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-1	SW DECK 1-3
6BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-3	SW DECK 1-5
7BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-5	SW DECK 1-7
8BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-7	SW DECK 1-9
9BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-9	SW DECK 1-11
10BRF	----	2210002874BU	7.0'	ST-1/8	IDC	SW DECK 1-11	6PL-1
11BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 2-2	SW DECK 2-3
12BRF	----	2210002874BU	2.5'	ST-1/8	ST-1/8	SW DECK 2-3	SW DECK 2-6
13BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 2-6	SW DECK 2-7
14BRF	----	2210002874BU	2.5'	ST-1/8	ST-1/8	SW DECK 2-7	SW DECK 2-10
15BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 2-10	SW DECK 2-11
16BRF	----	2210002874BU	7.0'	ST-1/8	IDC	SW DECK 2-11	6PL-2
17BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 3-4	SW DECK 3-5
18BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 3-5	SW DECK 3-6
19BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 3-6	SW DECK 3-7
20BRF	----	2210002874BU	3.5'	ST-1/8	ST-1/8	SW DECK 3-7	SW DECK 3-12
21BRF	----	2210002874BU	7.0'	ST-1/8	IDC	SW DECK 3-12	6PL-3
22BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 4-8	SW DECK 4-9
23BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 4-9	SW DECK 4-10
24BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 4-10	SW DECK 4-11
25BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 4-11	SW DECK 4-12
26BRF	----	2210002874BU	7.0'	ST-1/8	IDC	SW DECK 4-12	6PL-4



% FEEDRATE #1

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
----	----	2210002874BU	20.0'	ST-1/8	CN 00120425R	SW4-A	5PL-1
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-F	5PL-2
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-B	5PL-3
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-E	5PL-4
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-D	5PL-5



% FEEDRATE #2

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
----	----	2210002874BU	20.0'	ST-1/8	CN 00120425R	SW4-A	8PL-1
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-F	8PL-2
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-B	8PL-3
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-E	8PL-4
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-D	8PL-5



ROTARY RAPID

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
----	----	2210002874BU	14.0'	ST-1/8	CN 00120425R	SW TERM #C1	7PL-4
----	----	2210002874BU	14.0'	ST-1/8	IDC	SW TERM #2	7PL-1
----	----	2210002874BU	2.5'	ST-1/8	ST-1/8	SW TERM #2	SW TERM #C2
----	----	2210002874BU	14.0'	ST-1/8	IDC	SW TERM #3	7PL-2
----	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW TERM #3	SW TERM #4
----	----	2210002874BU	2.5'	ST-1/8	ST-1/8	SW TERM #4	SW TERM #10

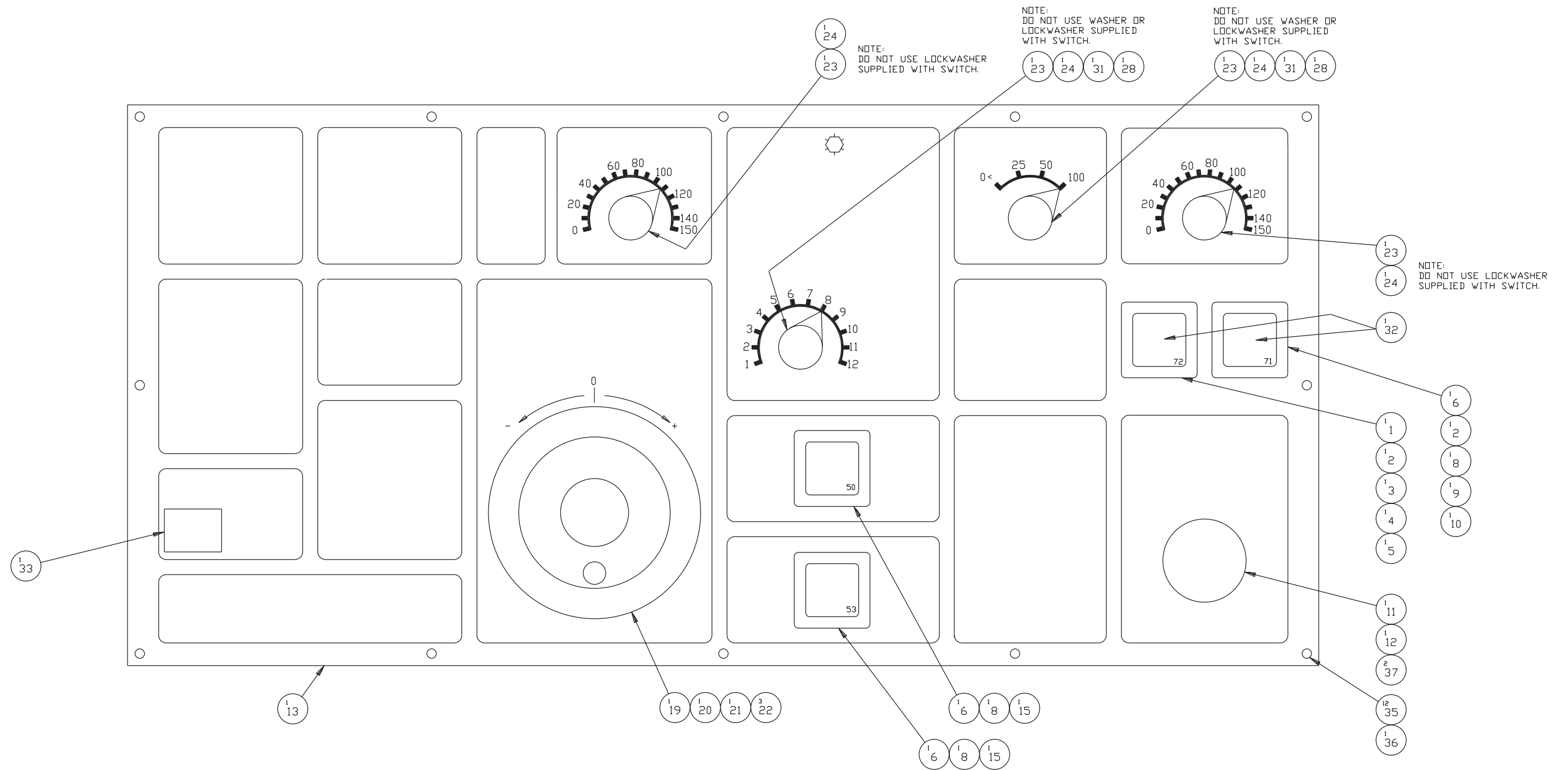


ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	MC 0010224ES	1.0000	SWITCH, OPERATOR SQUARE-EXTE
2	HGA000291101	2.0000	LIGHT UNIT
3	HG 001001906	1.0000	CONTACT BLOCK, NC
4	HGA000291102	1.0000	LED, 24VDC, RED
5	MC 0009971RS	1.0000	LENS, SWITCH SQUARE - RED
6	MC 0010224FS	3.0000	SWITCH, OPERATOR SQUARE-FLUS
7	SG 00116622	2.0000	CONTACT BLOCK
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 0011844PE	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.SLDT 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	STAKDN, 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, BUTDN 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	SG 0003011CEMP	1.0000	CABLE PACKAGE, ASSY, SG\CL-CE-MARK

NAME
MTB PANEL ASSEMBLY
SG/CL-RT CE-MARK

PART NUMBER
SG 0011844RTE

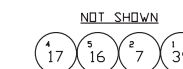
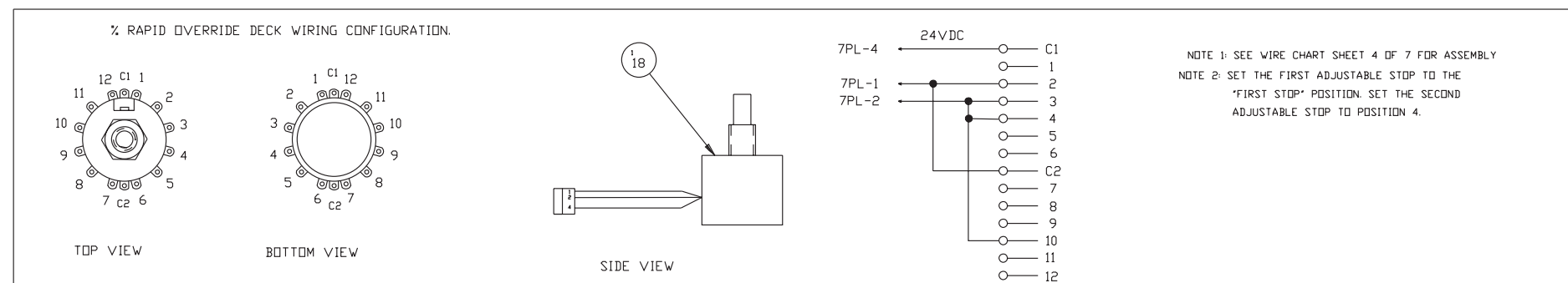
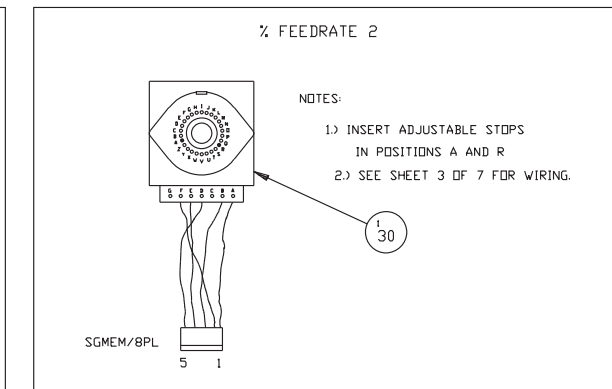
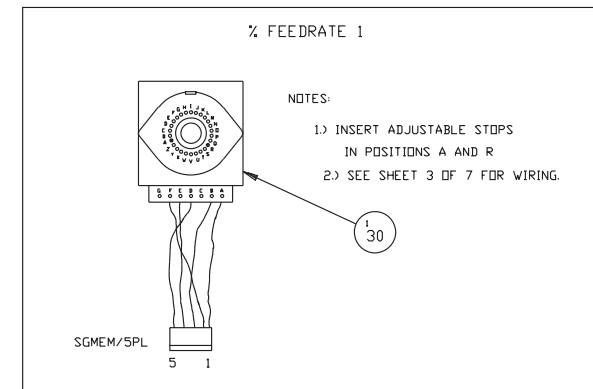
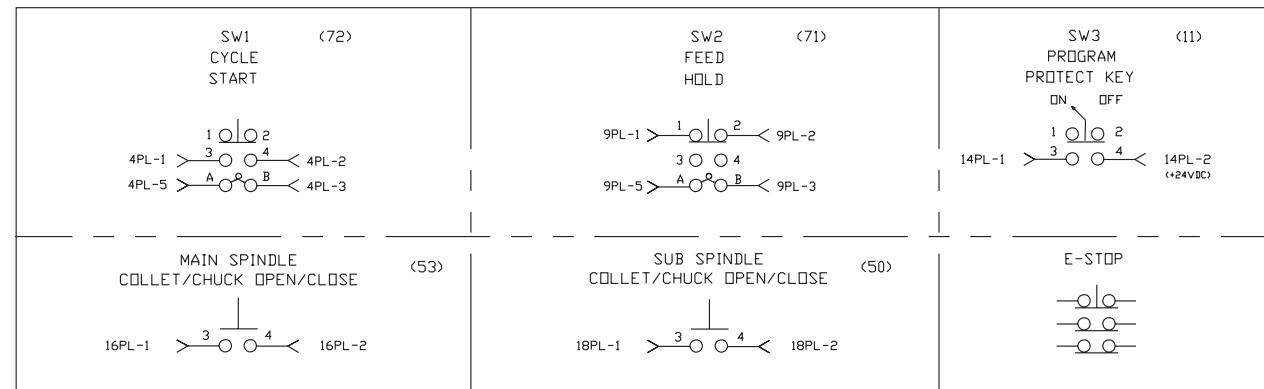
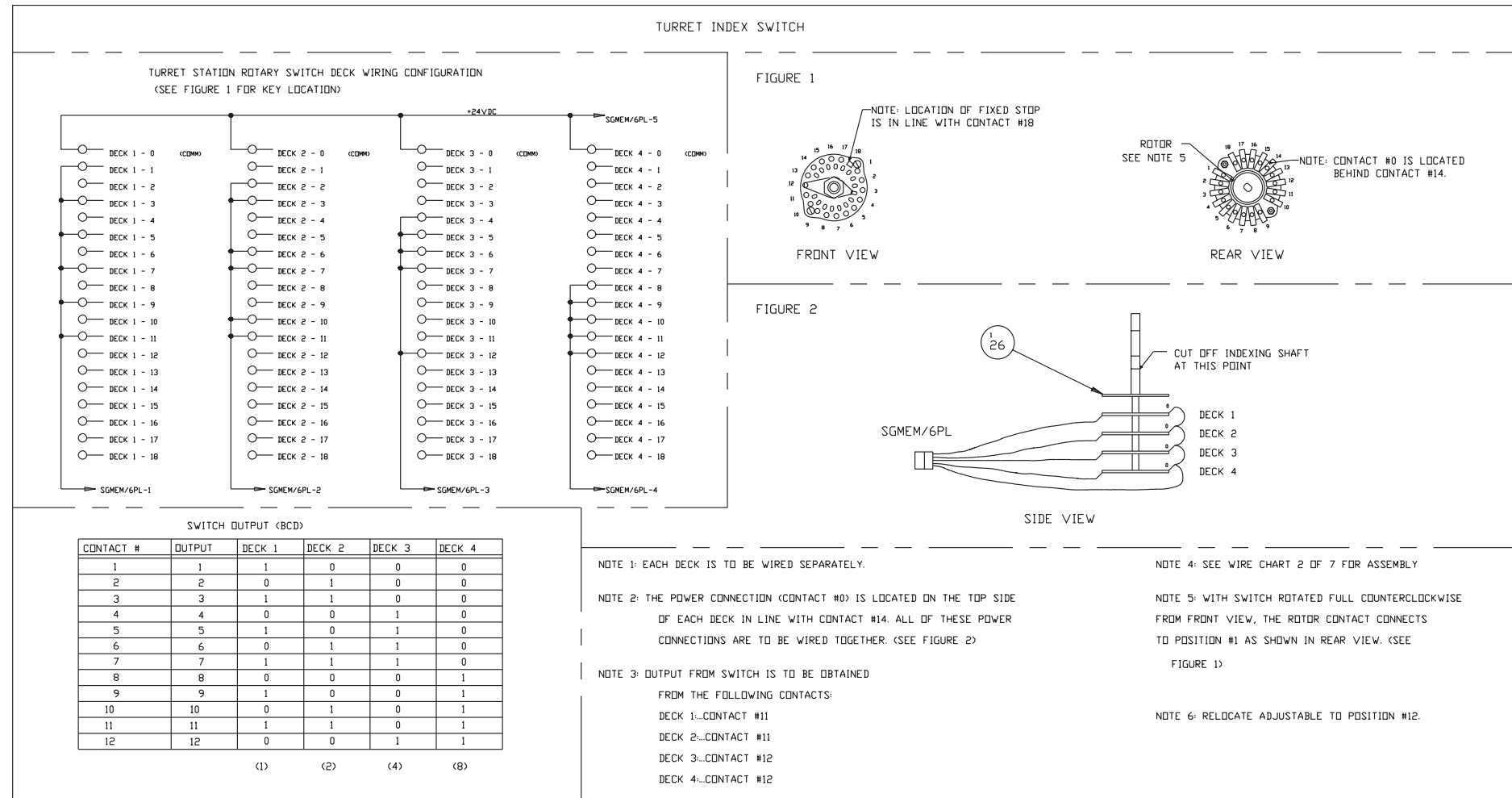
Operator Control Panel, Machine with Ram Turret, Non-CE Mark



NAME
SG / RT MTB ENGLISH
PANEL ASSEMBLY

PART NUMBER
SG 0011844ENRT

Operator Control Panel, Machine with Ram Turret, Non-CE Mark



NAME: SG/RT MTB ENGLISH PART NUMBER: SG 0011844ENRT
 PANEL ASS'Y ELECTRICAL

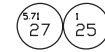
PROGRAM PROTECT/CYCLE START/FEED HOLD/COLLET-CHUCK

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
----	----	2210002874BU	10.5"	CN 000918802	CN 00120422R	PROGRAM PROTECT-3	14PL-1
----	----	2210002874BU	10.5"	CN 000918802	IDC	PROGRAM PROTECT-4	14PL-2
----	----	2210002874BU	20.5"	CK 000918820	CN 00120425R	CYCLE START-3	4PL-1
----	----	2210002874BU	19.5"	CK 000918820	IDC	CYCLE START-4	4PL-2
----	----	2210002874BU	20.0"	CK 000918820	IDC	CYCLE START-X2	4PL-5
----	----	2210002874BU	18.5"	CK 000918820	IDC	CYCLE START-X1	4PL-3
----	----	2210002874BU	18.5"	CK 000918820	CN 00120425R	FEED HOLD-1	9PL-1
----	----	2210002874BU	16.5"	CK 000918820	IDC	FEED HOLD-X2	9PL-5
----	----	2210002874BU	18.0"	CK 000918820	IDC	FEED HOLD-X1	9PL-3
----	----	2210002874BU	17.5"	CK 000918820	IDC	FEED HOLD-2	9PL-2
----	----	2210002874BU	10.0"	CK 000918820	CN 00120422R	MAIN CHUCK-3	16PL-1
----	----	2210002874BU	10.0"	CK 000918820	IDC	MAIN CHUCK-4	16PL-2
----	----	2210002874BU	9.0"	CK 000918820	CN 00120422R	SUB CHUCK-3	18PL-1
----	----	2210002874BU	9.0"	CK 000918820	IDC	SUB CHUCK-4	18PL-2



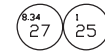
ROTARY TURRET

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
1BRF	----	2210002874BU	1.5"	ST-1/8	ST-1/8	SW DECK 1-0	SW DECK 2-0
2BRF	----	2210002874BU	1.5"	ST-1/8	ST-1/8	SW DECK 2-0	SW DECK 3-0
3BRF	----	2210002874BU	1.5"	ST-1/8	ST-1/8	SW DECK 3-0	SW DECK 4-0
4BRF	----	2210002874BU	7.0"	ST-1/8	CN 00120425R	SW DECK 4-0	6PL-5
5BRF	----	2210002874BU	2.0"	ST-1/8	ST-1/8	SW DECK 1-1	SW DECK 1-3
6BRF	----	2210002874BU	2.0"	ST-1/8	ST-1/8	SW DECK 1-3	SW DECK 1-5
7BRF	----	2210002874BU	2.0"	ST-1/8	ST-1/8	SW DECK 1-5	SW DECK 1-7
8BRF	----	2210002874BU	2.0"	ST-1/8	ST-1/8	SW DECK 1-7	SW DECK 1-9
9BRF	----	2210002874BU	2.0"	ST-1/8	ST-1/8	SW DECK 1-9	SW DECK 1-11
10BRF	----	2210002874BU	7.0"	ST-1/8	IDC	SW DECK 1-11	6PL-1
11BRF	----	2210002874BU	1.5"	ST-1/8	ST-1/8	SW DECK 2-2	SW DECK 2-3
12BRF	----	2210002874BU	2.5"	ST-1/8	ST-1/8	SW DECK 2-3	SW DECK 2-6
13BRF	----	2210002874BU	1.5"	ST-1/8	ST-1/8	SW DECK 2-6	SW DECK 2-7
14BRF	----	2210002874BU	2.5"	ST-1/8	ST-1/8	SW DECK 2-7	SW DECK 2-10
15BRF	----	2210002874BU	1.5"	ST-1/8	ST-1/8	SW DECK 2-10	SW DECK 2-11
16BRF	----	2210002874BU	7.0"	ST-1/8	IDC	SW DECK 2-11	6PL-2
17BRF	----	2210002874BU	1.5"	ST-1/8	ST-1/8	SW DECK 3-4	SW DECK 3-5
18BRF	----	2210002874BU	1.5"	ST-1/8	ST-1/8	SW DECK 3-5	SW DECK 3-6
19BRF	----	2210002874BU	1.5"	ST-1/8	ST-1/8	SW DECK 3-6	SW DECK 3-7
20BRF	----	2210002874BU	3.5"	ST-1/8	ST-1/8	SW DECK 3-7	SW DECK 3-12
21BRF	----	2210002874BU	7.0"	ST-1/8	IDC	SW DECK 3-12	6PL-3
22BRF	----	2210002874BU	1.5"	ST-1/8	ST-1/8	SW DECK 4-8	SW DECK 4-9
23BRF	----	2210002874BU	1.5"	ST-1/8	ST-1/8	SW DECK 4-9	SW DECK 4-10
24BRF	----	2210002874BU	1.5"	ST-1/8	ST-1/8	SW DECK 4-10	SW DECK 4-11
25BRF	----	2210002874BU	1.5"	ST-1/8	ST-1/8	SW DECK 4-11	SW DECK 4-12
26BRF	----	2210002874BU	7.0"	ST-1/8	IDC	SW DECK 4-12	6PL-4



% FEEDRATE #1

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
----	----	2210002874BU	20.0"	ST-1/8	CN 00120425R	SW4-A	5PL-1
----	----	2210002874BU	20.0"	ST-1/8	IDC	SW4-F	5PL-2
----	----	2210002874BU	20.0"	ST-1/8	IDC	SW4-B	5PL-3
----	----	2210002874BU	20.0"	ST-1/8	IDC	SW4-E	5PL-4
----	----	2210002874BU	20.0"	ST-1/8	IDC	SW4-D	5PL-5



% FEEDRATE #2

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
----	----	2210002874BU	20.0"	ST-1/8	CN 00120425R	SW4-A	8PL-1
----	----	2210002874BU	20.0"	ST-1/8	IDC	SW4-F	8PL-2
----	----	2210002874BU	20.0"	ST-1/8	IDC	SW4-B	8PL-3
----	----	2210002874BU	20.0"	ST-1/8	IDC	SW4-E	8PL-4
----	----	2210002874BU	20.0"	ST-1/8	IDC	SW4-D	8PL-5



ROTARY RAPID

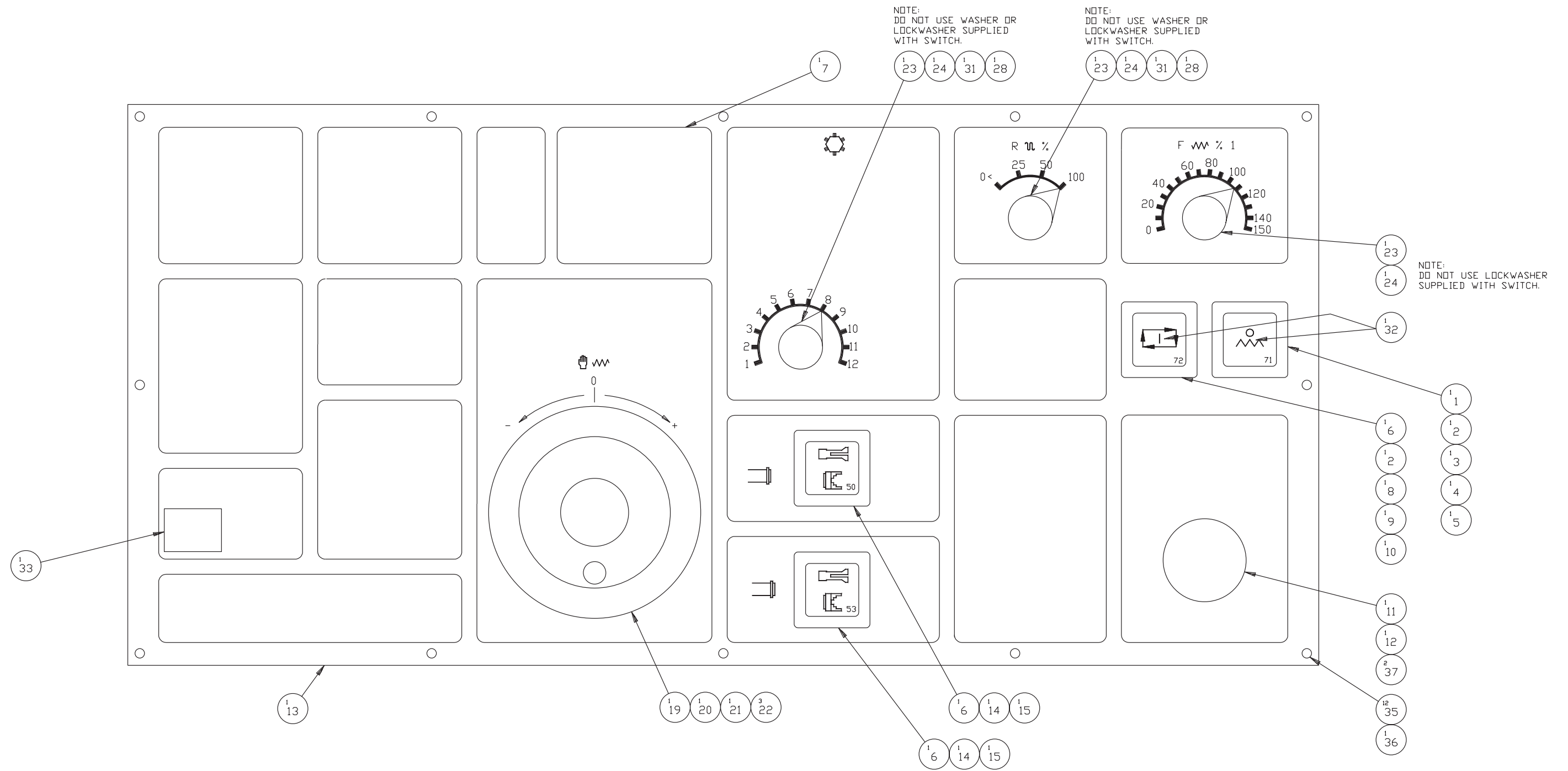
IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
----	----	2210002874BU	14.0"	ST-1/8	CN 00120425R	SW TERM #C1	7PL-4
----	----	2210002874BU	14.0"	ST-1/8	IDC	SW TERM #2	7PL-1
----	----	2210002874BU	2.5"	ST-1/8	ST-1/8	SW TERM #2	SW TERM #C2
----	----	2210002874BU	14.0"	ST-1/8	IDC	SW TERM #3	7PL-2
----	----	2210002874BU	1.5"	ST-1/8	ST-1/8	SW TERM #3	SW TERM #4
----	----	2210002874BU	2.5"	ST-1/8	ST-1/8	SW TERM #4	SW TERM #10



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	LC 0003650GE24	1.0000	SWITCH, OPERATOR, SQUARE, EX
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, FL
7	SG 0011622	2.0000	SLEEVE, PLASTIC COIL 3/16"-2
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.SLOT M4X.7X14MM
23	CS 0006578	4.0000	KNOB
24	CN 001011697	4.0000	GASKET, ROTARY SWITCH
25	CN 00120425R	6.0000	RECEPTACLE, 5 PDS
26	CN 000283404	1.0000	SWITCH, ROTARY (18 POSITIONS)
27	2210002874BU	37.9300	WIRE, DARK BLUE
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 PDS. RECEPTACLE
35	MS 0303315	12.0000	SCREW, BUTTON HD. M3X.5X10MM
36	RF 0011971	1.0000	BAG - MAIL
37	SG 0010019	2.0000	BLOCK, CONTACT
38	CK 000918820	12.0000	FERRULES, 20 AWG
39	SG 0003011CEMP	1.0000	CABLE PKG MEMBRANE PNL-CEMAR

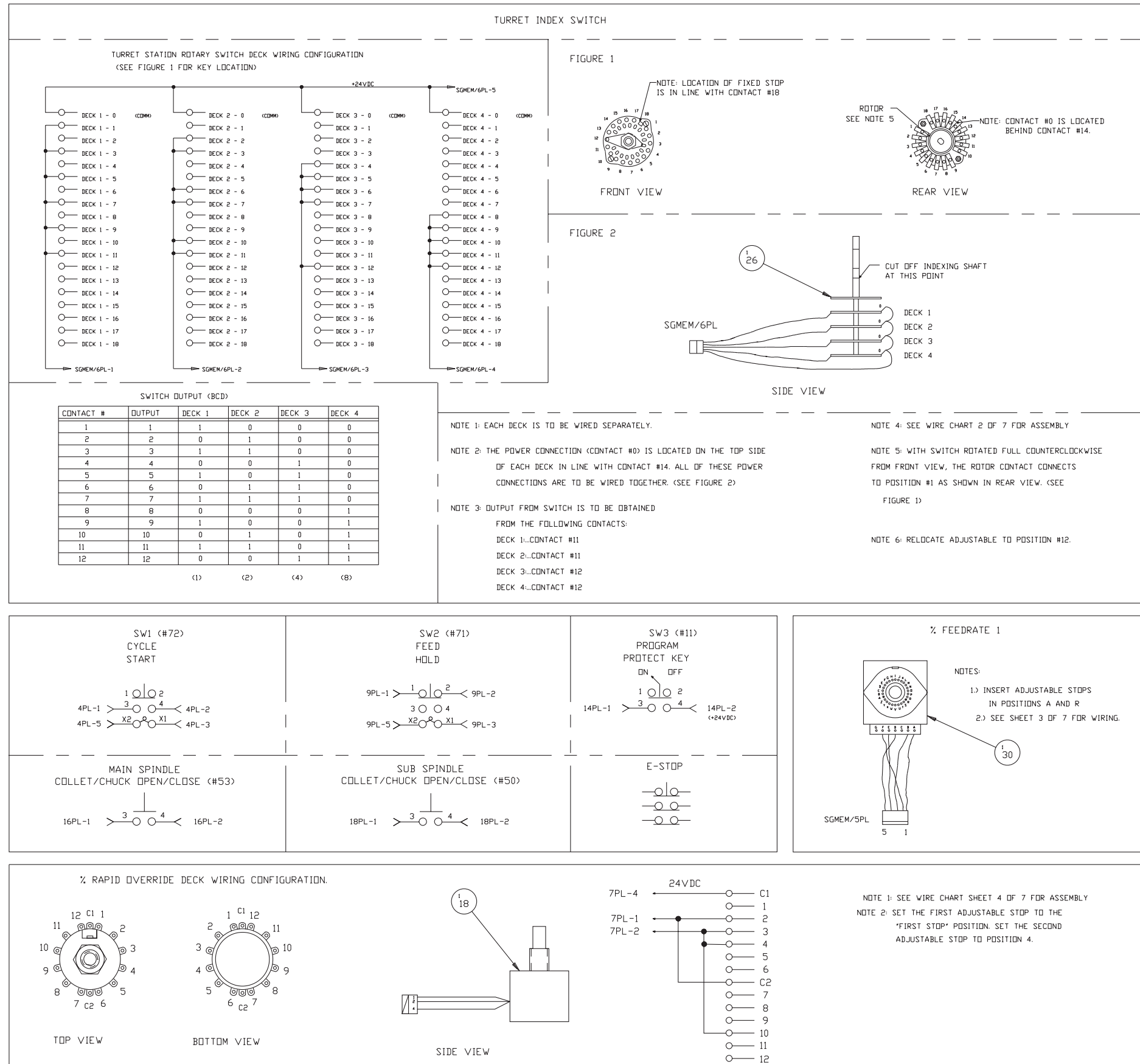
NAME: SG MTB ENGLISH PANEL
 ASS'Y BOM
 PART NUMBER: SG 0011844ENRT

Operator Control Panel, Machine without Ram Turret, CE Mark



NAME
MTB PANEL ASSEMBLY
SG CEMARK

PART NUMBER
SG 0011844E



SW1 (#72) CYCLE START

SW2 (#71) FEED HOLD

SW3 (#11) PROGRAM PROTECT KEY

% FEEDRATE 1

NOTES:
 1.) INSERT ADJUSTABLE STOPS IN POSITIONS A AND R.
 2.) SEE SHEET 3 OF 7 FOR WIRING.

MAIN SPINDLE COLLET/CHUCK OPEN/CLOSE (#53)

SUB SPINDLE COLLET/CHUCK OPEN/CLOSE (#50)

E-STOP

% RAPID OVERRIDE DECK WIRING CONFIGURATION.

TOP VIEW

BOTTOM VIEW

SIDE VIEW

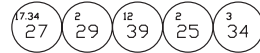
NOTE 1: SEE WIRE CHART SHEET 4 OF 7 FOR ASSEMBLY
 NOTE 2: SET THE FIRST ADJUSTABLE STOP TO THE 'FIRST STOP' POSITION. SET THE SECOND ADJUSTABLE STOP TO POSITION 4.

NOT SHOWN ON DWG.

Operator Control Panel, Machine without Ram Turret, CE Mark

PROGRAM PROTECT/CYCLE START/FEED HOLD/COLLET-CHUCK

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
----	----	2210002874BU	10.5'	CN 000918802	CN 00120422R	PROGRAM PROTECT-3	14PL-1
----	----	2210002874BU	10.5'	CN 000918802	IDC	PROGRAM PROTECT-4	14PL-2
----	----	2210002874BU	20.5'	CK 000918820	CN 00120425R	CYCLE START-3	4PL-1
----	----	2210002874BU	19.5'	CK 000918820	IDC	CYCLE START-4	4PL-2
----	----	2210002874BU	20.0'	CK 000918820	IDC	CYCLE START-X2	4PL-5
----	----	2210002874BU	18.5'	CK 000918820	IDC	CYCLE START-X1	4PL-3
----	----	2210002874BU	18.5'	CK 000918820	CN 00120425R	FEED HOLD-1	9PL-1
----	----	2210002874BU	16.5'	CK 000918820	IDC	FEED HOLD-X2	9PL-5
----	----	2210002874BU	18.0'	CK 000918820	IDC	FEED HOLD-X1	9PL-3
----	----	2210002874BU	17.5'	CK 000918820	IDC	FEED HOLD-2	9PL-2
----	----	2210002874BU	10.0'	CK 000918820	CN 00120422R	MAIN CHUCK-3	16PL-1
----	----	2210002874BU	10.0'	CK 000918820	IDC	MAIN CHUCK-4	16PL-2
----	----	2210002874BU	9.0'	CK 000918820	CN 00120422R	SUB CHUCK-3	18PL-1
----	----	2210002874BU	9.0'	CK 000918820	IDC	SUB CHUCK-4	18PL-2



ROTARY TURRET

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
1BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 1-0	SW DECK 2-0
2BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 2-0	SW DECK 3-0
3BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 3-0	SW DECK 4-0
4BRF	----	2210002874BU	7.0'	ST-1/8	CN 00120425R	SW DECK 4-0	6PL-5
5BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-1	SW DECK 1-3
6BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-3	SW DECK 1-5
7BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-5	SW DECK 1-7
8BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-7	SW DECK 1-9
9BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-9	SW DECK 1-11
10BRF	----	2210002874BU	7.0'	ST-1/8	IDC	SW DECK 1-11	6PL-1
11BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 2-2	SW DECK 2-3
12BRF	----	2210002874BU	2.5'	ST-1/8	ST-1/8	SW DECK 2-3	SW DECK 2-6
13BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 2-6	SW DECK 2-7
14BRF	----	2210002874BU	2.5'	ST-1/8	ST-1/8	SW DECK 2-7	SW DECK 2-10
15BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 2-10	SW DECK 2-11
16BRF	----	2210002874BU	7.0'	ST-1/8	IDC	SW DECK 2-11	6PL-2
17BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 3-4	SW DECK 3-5
18BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 3-5	SW DECK 3-6
19BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 3-6	SW DECK 3-7
20BRF	----	2210002874BU	3.5'	ST-1/8	ST-1/8	SW DECK 3-7	SW DECK 3-12
21BRF	----	2210002874BU	7.0'	ST-1/8	IDC	SW DECK 3-12	6PL-3
22BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 4-8	SW DECK 4-9
23BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 4-9	SW DECK 4-10
24BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 4-10	SW DECK 4-11
25BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 4-11	SW DECK 4-12
26BRF	----	2210002874BU	7.0'	ST-1/8	IDC	SW DECK 4-12	6PL-4



% FEEDRATE #1

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
----	----	2210002874BU	20.0'	ST-1/8	CN 00120425R	SW4-A	5PL-1
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-F	5PL-2
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-B	5PL-3
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-E	5PL-4
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-D	5PL-5



ROTARY RAPID

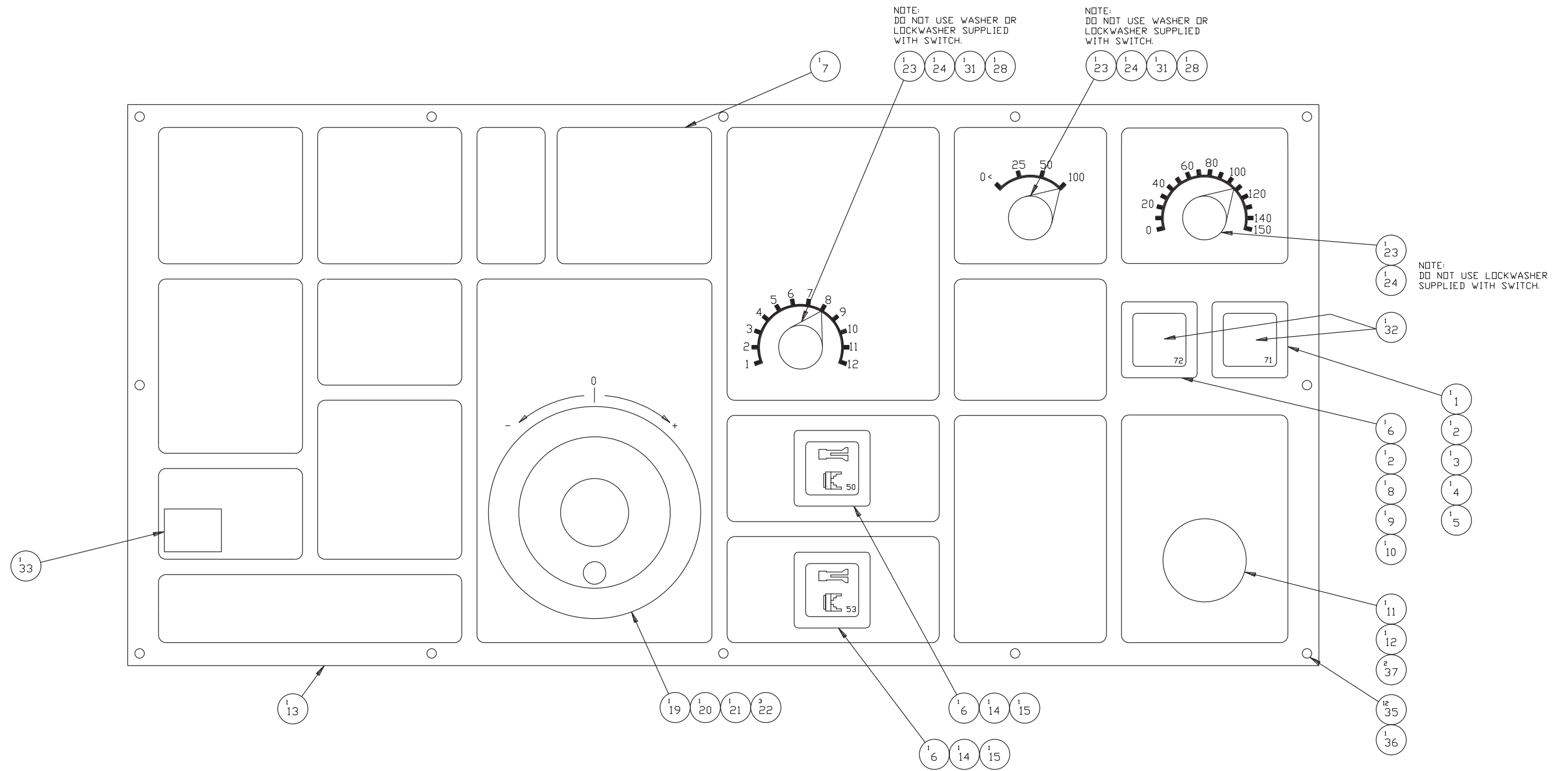
IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
----	----	2210002874BU	14.0'	ST-1/8	CN 00120425R	SW TERM #C1	7PL-4
----	----	2210002874BU	14.0'	ST-1/8	IDC	SW TERM #2	7PL-1
----	----	2210002874BU	2.5'	ST-1/8	ST-1/8	SW TERM #2	SW TERM #C2
----	----	2210002874BU	14.0'	ST-1/8	IDC	SW TERM #3	7PL-2
----	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW TERM #3	SW TERM #4
----	----	2210002874BU	2.5'	ST-1/8	ST-1/8	SW TERM #4	SW TERM #10



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	CS 001036634	1.0000	TAG, CONQUEST DT-C COVER-UP
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 PDS.
12	CN 0010116 B	1.0000	GASKET, E STOP SWITCH
13	SG 0011844PE	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	3.0000	KNOB
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	35.4300	WIRE
28	CS 0007910	2.0000	WASHER
29	CN 000918802	2.0000	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, CE MARK
33	CN 000283407	1.0000	SWITCH, KEYLOCK
34	CN 00120422R	3.0000	2 PDS. RECEPTACLE
35	MS 0303315	12.0000	SCREW, BUTDN HD. M3X.5X10MM
36	RF 0011971	1.0000	BAG - MAIL
37	SG 0010019	2.0000	CONTACT BLOCK
39	CK 000918820	12.0000	FERRULES, 20 AWG
40	SG 0011622	2.6700	SLEEVE, PLASTIC COIL, 3/16"-2"
41	SG 0003011CEMP	1.0000	CABLE PACKAGE, ASSEMBLY SG\CL-CE

NAME: MTB PANEL ASSEMBLY
SG/CL, CE-MARK
PART NUMBER: SG 0011844E

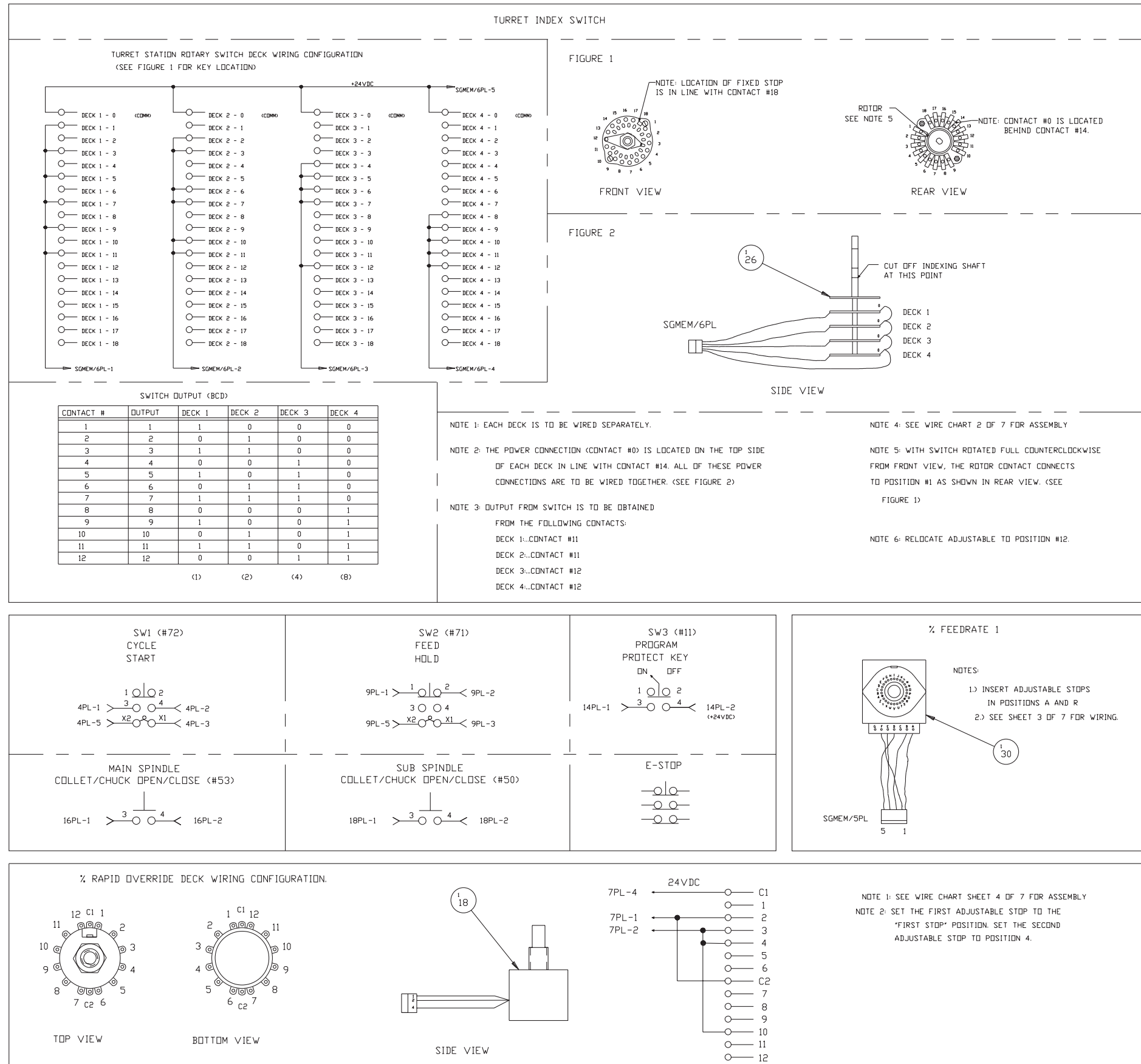
Operator Control Panel, Machine without Ram Turret, Non-CE Mark



NAME
SG / CL MTB ENGLISH
PANEL ASS'Y

PART NUMBER
SG 0011844ENA

Operator Control Panel, Machine without Ram Turret, Non-CE Mark



SW1 (#72)
CYCLE
START

SW2 (#71)
FEED
HOLD

SW3 (#11)
PROGRAM
PROTECT KEY

% FEEDRATE 1

NOTES:
1.) INSERT ADJUSTABLE STOPS IN POSITIONS A AND R
2.) SEE SHEET 3 OF 7 FOR WIRING.

**MAIN SPINDLE
COLLET/CHUCK OPEN/CLOSE (#53)**

**SUB SPINDLE
COLLET/CHUCK OPEN/CLOSE (#50)**

E-STOP

% RAPID OVERRIDE DECK WIRING CONFIGURATION.

NOTE 1: SEE WIRE CHART SHEET 4 OF 7 FOR ASSEMBLY
NOTE 2: SET THE FIRST ADJUSTABLE STOP TO THE "FIRST STOP" POSITION. SET THE SECOND ADJUSTABLE STOP TO POSITION 4.

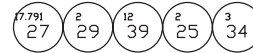
NOT SHOWN ON DWG.

NAME: MTB ENGLISH PANEL ASSY
 PART NUMBER: SG 0011844EN A
 SG/CL, CE-MARK

Operator Control Panel, Machine without Ram Turret, Non-CE Mark

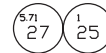
PROGRAM PROTECT/CYCLE START/FEED HOLD/COLLET-CHUCK

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
----	----	2210002874BU	10.5'	CN 000918802	CN 00120422R	PROGRAM PROTECT-3	14PL-1
----	----	2210002874BU	10.5'	CN 000918802	IDC	PROGRAM PROTECT-4	14PL-2
----	----	2210002874BU	19.5	CK 000918820	CN 00120425R	CYCLE START-3	4PL-1
----	----	2210002874BU	17.5	CK 000918820	IDC	CYCLE START-4	4PL-2
----	----	2210002874BU	18.0	CK 000918820	IDC	CYCLE START-X2	4PL-5
----	----	2210002874BU	20.5	CK 000918820	IDC	CYCLE START-X1	4PL-3
----	----	2210002874BU	19.0	CK 000918820	CN 00120425R	FEED HOLD-1	9PL-1
----	----	2210002874BU	21.0	CK 000918820	IDC	FEED HOLD-X2	9PL-5
----	----	2210002874BU	19.0	CK 000918820	IDC	FEED HOLD-X1	9PL-3
----	----	2210002874BU	20.0	CK 000918820	IDC	FEED HOLD-2	9PL-2
----	----	2210002874BU	10.0'	CK 000918820	CN 00120422R	MAIN CHUCK-3	16PL-1
----	----	2210002874BU	10.0'	CK 000918820	IDC	MAIN CHUCK-4	16PL-2
----	----	2210002874BU	9.0'	CK 000918820	CN 00120422R	SUB CHUCK-3	18PL-1
----	----	2210002874BU	9.0'	CK 000918820	IDC	SUB CHUCK-4	18PL-2



ROTARY TURRET

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
1BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 1-0	SW DECK 2-0
2BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 2-0	SW DECK 3-0
3BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 3-0	SW DECK 4-0
4BRF	----	2210002874BU	7.0'	ST-1/8	CN 00120425R	SW DECK 4-0	6PL-5
5BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-1	SW DECK 1-3
6BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-3	SW DECK 1-5
7BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-5	SW DECK 1-7
8BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-7	SW DECK 1-9
9BRF	----	2210002874BU	2.0'	ST-1/8	ST-1/8	SW DECK 1-9	SW DECK 1-11
10BRF	----	2210002874BU	7.0'	ST-1/8	IDC	SW DECK 1-11	6PL-1
11BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 2-2	SW DECK 2-3
12BRF	----	2210002874BU	2.5'	ST-1/8	ST-1/8	SW DECK 2-3	SW DECK 2-6
13BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 2-6	SW DECK 2-7
14BRF	----	2210002874BU	2.5'	ST-1/8	ST-1/8	SW DECK 2-7	SW DECK 2-10
15BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 2-10	SW DECK 2-11
16BRF	----	2210002874BU	7.0'	ST-1/8	IDC	SW DECK 2-11	6PL-2
17BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 3-4	SW DECK 3-5
18BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 3-5	SW DECK 3-6
19BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 3-6	SW DECK 3-7
20BRF	----	2210002874BU	3.5'	ST-1/8	ST-1/8	SW DECK 3-7	SW DECK 3-12
21BRF	----	2210002874BU	7.0'	ST-1/8	IDC	SW DECK 3-12	6PL-3
22BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 4-8	SW DECK 4-9
23BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 4-9	SW DECK 4-10
24BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 4-10	SW DECK 4-11
25BRF	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW DECK 4-11	SW DECK 4-12
26BRF	----	2210002874BU	7.0'	ST-1/8	IDC	SW DECK 4-12	6PL-4



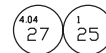
% FEEDRATE #1

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
----	----	2210002874BU	20.0'	ST-1/8	CN 00120425R	SW4-A	5PL-1
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-F	5PL-2
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-B	5PL-3
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-E	5PL-4
----	----	2210002874BU	20.0'	ST-1/8	IDC	SW4-D	5PL-5



ROTARY RAPID

IDENT	CODE	WIRE	LENGTH	END 1	END 2	FROM	TO
----	----	2210002874BU	14.0'	ST-1/8	CN 00120425R	SW TERM #C1	7PL-4
----	----	2210002874BU	14.0'	ST-1/8	IDC	SW TERM #2	7PL-1
----	----	2210002874BU	2.5'	ST-1/8	ST-1/8	SW TERM #2	SW TERM #C2
----	----	2210002874BU	14.0'	ST-1/8	IDC	SW TERM #3	7PL-2
----	----	2210002874BU	1.5'	ST-1/8	ST-1/8	SW TERM #3	SW TERM #4
----	----	2210002874BU	2.5'	ST-1/8	ST-1/8	SW TERM #4	SW TERM #10

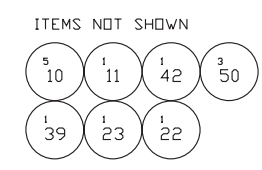
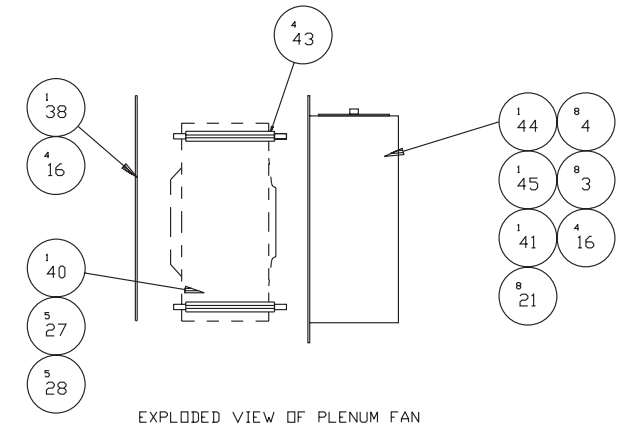
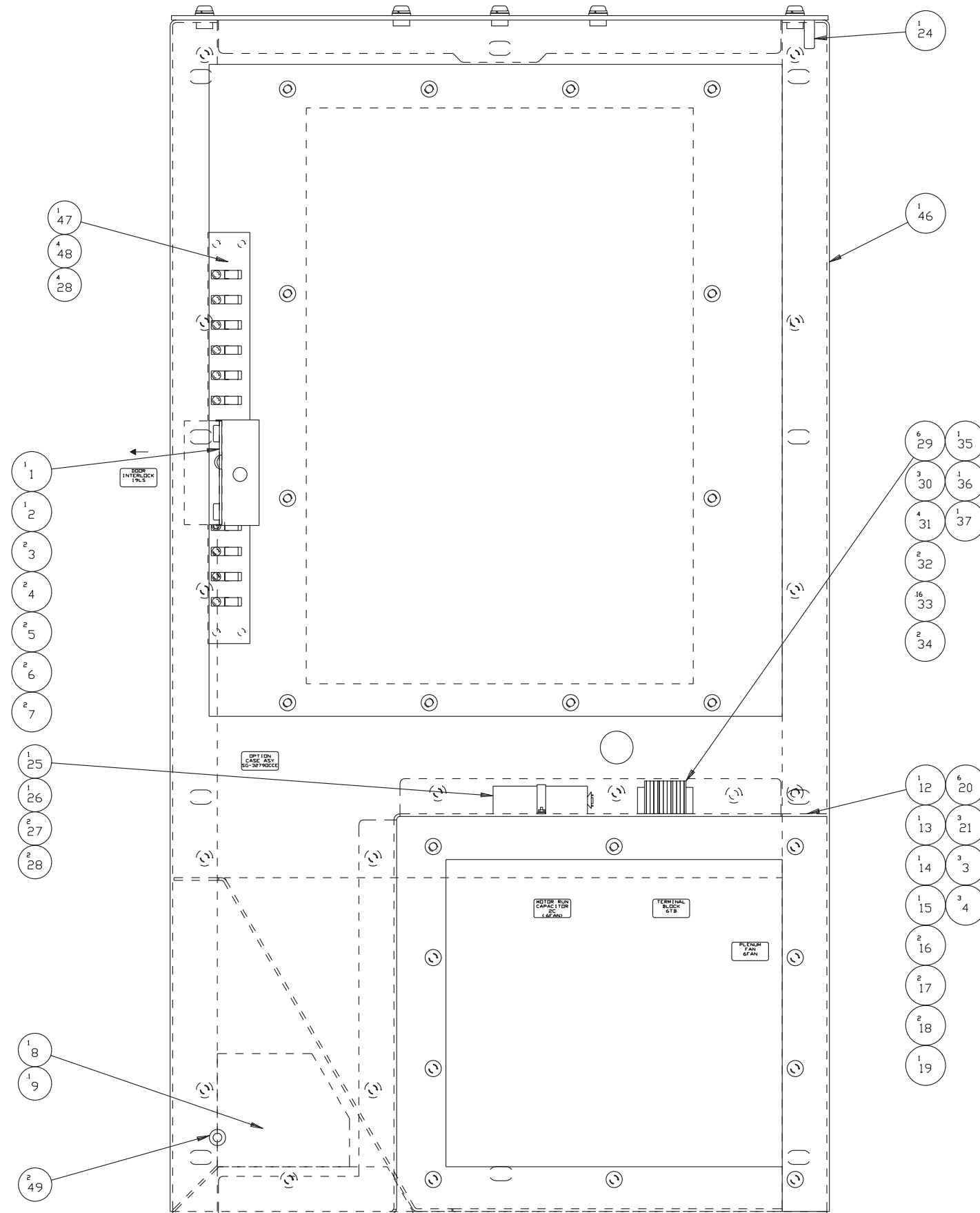


ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	MC 0010224ES	1.0000	SWITCH, OPERATOR SQUARE-EXTE
2	HGA000291101	2.0000	LIGHT UNIT
3	HG 001001906	1.0000	CONTACT BLOCK, NC
4	HGA000291102	1.0000	LED, 24VDC, RED
5	MC 0009971RS	1.0000	LENS, SWITCH SQUARE - RED
6	MC 0010224FS	3.0000	SWITCH, OPERATOR SQUARE-FLUS
7	CS 001036634	1.0000	TAG, CONQUEST QT-C COVER-UP
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 POS.
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.SLDT M4X.7X14MM
23	CS 0006578	3.0000	KNOB
24	CN 001011697	3.0000	GASKET, ROTARY SWITCH
25	CN 00120425R	5.0000	RECEPTACLE, 5 POS
26	CN 000283404	1.0000	SWITCH, ROTARY (18 POSITIONS)
27	2210002874BU	36.3050	WIRE
28	CS 0007910	2.0000	WASHER
29	CN 000918802	2.0000	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, CE MARK
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
39	CK 000918820	12.0000	FERRULES, 20 AWG
40	SG 0011622	2.6700	SLEEVE, PLASTIC COIL, 3/16"-2"
41	SG 0003011CEMP	1.0000	CABLE PACKAGE, SG\CL-CE-MARK

NAME
MTB ENGLISH PANEL ASSY
SG/CL, CE-MARK

PART NUMBER
SG 0011844ENA

Option Case Assembly, Non-CE Mark



NAME
OPTION CASE ASSEMBLY
COMMON

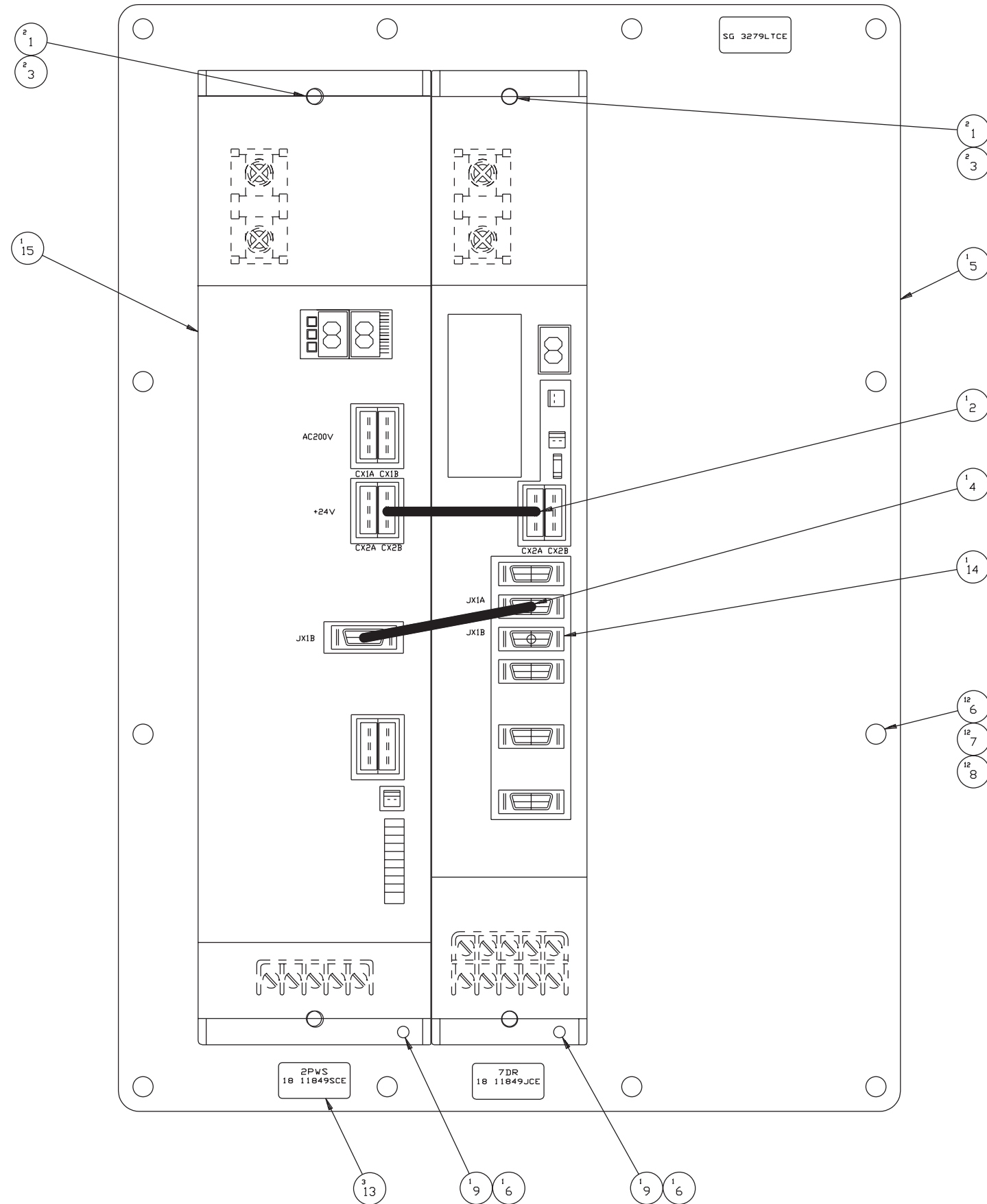
PART NUMBER
SG 00032790CCE

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	CL 001022407	1.0000	SWITCH, INTERLOCK
2	CL 000415832	1.0000	BRACKET, SWITCH,OTC & I/O CA
3	MW 0183610	13.0000	M6 REG. LOCKWASHER
4	MW 0103610	13.0000	WASHER, FLAT M6 X 1.0 STEEL
5	MS 0303615	2.0000	SCREW, BT. HD. M6X1.0X 10MM
6	0300103	2.0000	SCREW BT HD 6-32 X 3/16
7	6 0008137	2.0000	WASHER, LOCK
8	SB 001056504	1.0000	U CHANNEL
9	3 001088401	0.1000	ADHESIVE
10	F3 000997701	5.0000	LABEL, ID
11	LD 0002854	1.0000	TAG LAYOUT - CEMARK
12	SG 00037800C	1.0000	DOOR, OPTION CASE
13	SGA000415809	1.0000	PLATE, DOOR HINGE (BOTTOM)
14	SG 000415811	1.0000	SPACER, NYLON (P.C. DOOR)
15	SG 000415810	1.0000	BRACKET, DOOR HINGE MTG.
16	MN 0283610	10.0000	NUT, HEX SERRATED FLANGE
17	HG 001173801	2.0000	LATCH, DOOR, VISE ACTION
18	VL 001173801	2.0000	DOOR PULL
19	SG 000415808	1.0000	PLATE, DOOR HINGE (TOP)
20	CN 001119801	6.0000	SEAL, DOOR
21	MS 0303617	11.0000	SCREW, BT. HD. M6X1.0 X 16MM
22	TT 001129804	1.0000	FILTER
23	SG 001001704	1.0000	HOLDER, FUSE 3P 125A
24	SG 000179912	1.0000	SPACER, PC & I/O CASE DOOR
25	CL 0010471	1.0000	CAPACITOR, HEADSTK COOL FAN
26	CL 0010471 B	1.0000	BRACKET, CAPACITOR
27	MS 0303415	7.0000	SCREW, BT. HD. M4X.7,X 10MM
28	MW 0263410	11.0000	WASHER, EXT. STAR M4
29	HG 0011032	6.0000	TERMINAL BLOCK, GRAY
30	HG 001103202	3.0000	TERMINAL BLOCK, GREEN/YELLOW
31	HG 001103203	4.0000	END PLATE
32	HG 001103204	2.0000	END STOP
33	CK 9011032	0.1600	RAIL, DIN BLANK
34	MS 0303515	2.0000	SCREW, BT. HD. M5X.8,X 10MM
35	HG 001103205	1.0000	JUMPER, 10 POLE
36	HG 0009175	0.1000	MARKER, STRIP 1-10
37	SG 0009532	1.0000	GROMMET
38	SGA000415814	1.0000	SUPPORT, PLENUM FAN
39	18A0010016	1.0000	CONTACTOR, 30A
40	CL 001185003	1.0000	FAN, HEADSTOCK COOLING
41	SG 0011350	1.0000	FILTER
42	SG 0003279WPOC	1.0000	WIRE PKG, OP.CASE ASSY-CEMAR
43	SG 001019002	4.0000	STANDOFF, PLENUM SUPPORT
44	SG 000415812	1.0000	DUCT, PLENUM FAN
45	SG 000415819	1.0000	GUARD, PLENUM FAN FINGER
46	SG 00041580C01	1.0000	OPTION CASE ASSEMBLY-CEMARK
47	SG 00108204	1.0000	SUPPORT, CABLE BAR
48	MS 0303410	4.0000	SCREW, BT. HD. M4X.7,X 3MM
49	HG 0010546	2.0000	NUT, 1/4-20 BRASS HEX
50	SG 000961014	3.0000	FUSE, GI, 22 X 50mm, 32A

NAME
OPTION CASE ASSEMBLY
COMMON, BOM

PART NUMBER
SG 00032790CCE

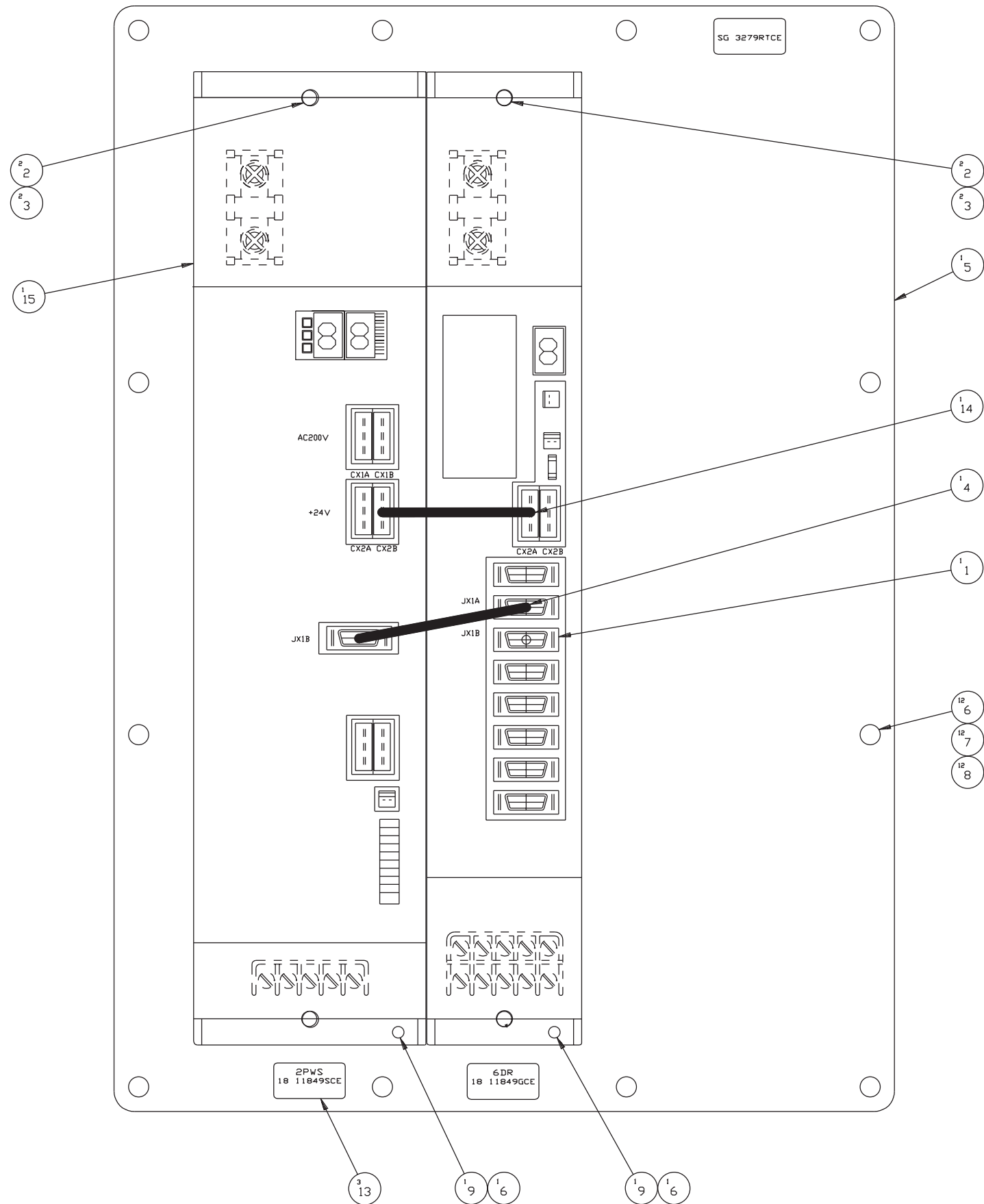
Option Panel, Live Tooling



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	SG 000499079	1.0000	PLATE, <LT> DR MTG-CEMARK
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	LD 0002854	1.0000	TAG LAYOUT - CEMARK
11	SG 0003279WPLT	1.0000	WIRE PACKAGE, LIVE TOOL-CEMA
12	SG 0003011CELT	1.0000	CABLE PACKAGE, LT - CEMARK
13	F3 000997701	3.0000	LABEL, ID
14	SG 0012042TCA	1.0000	TERMINATING CONNECTING ASSY.
15	18 0008776A01	1.0000	KIT, 5.5 KVA POWER SUPPLY

NOT SHOWN

NAME: PANEL, LIVE TOOLING
 PART NUMBER: SG 0003279LTCE

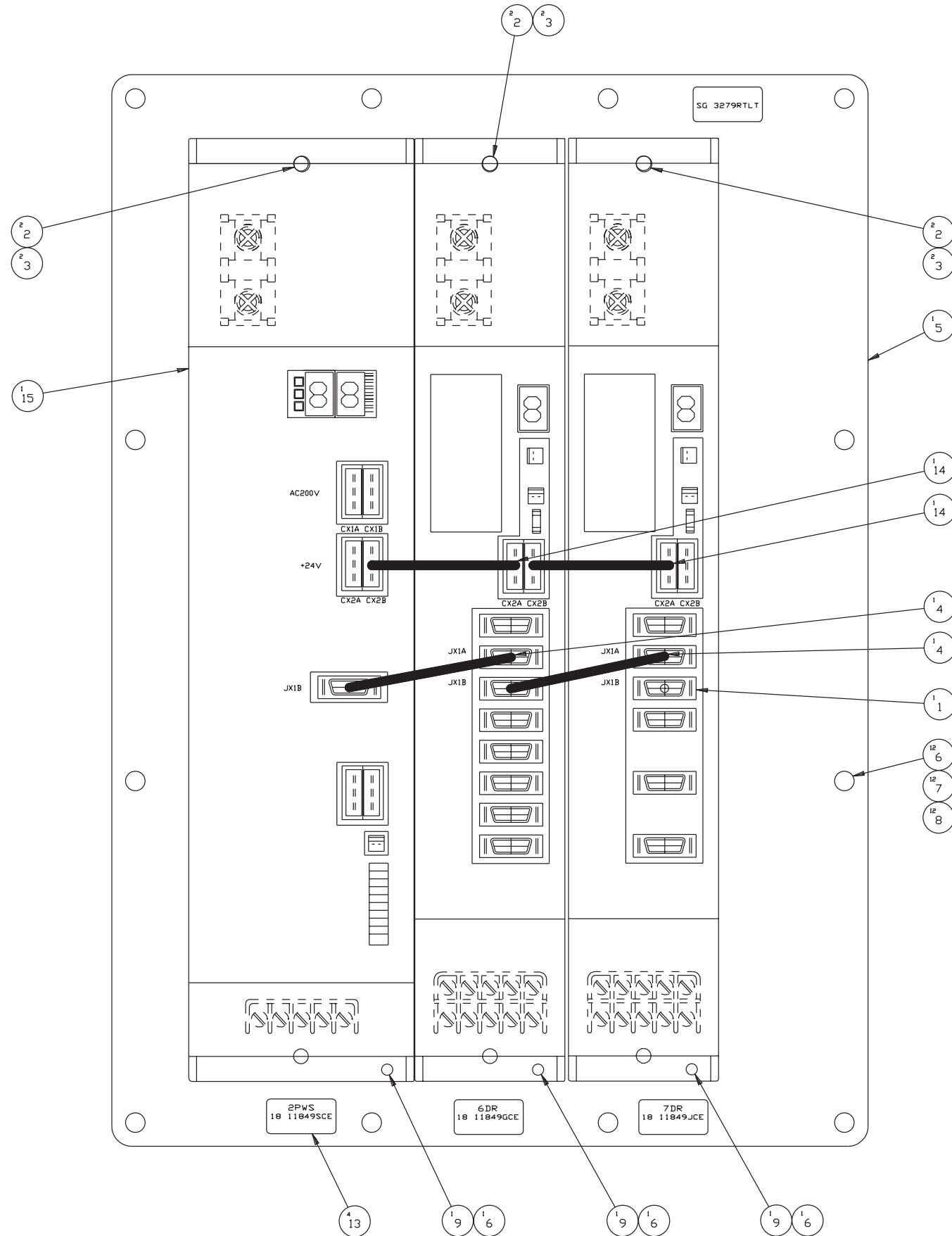


ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SG 0012042TCA	1.0000	TERMINATING CONNECTOR ASSEMBLY
2	MW 0183510	4.0000	WASHER, LOCK REG. M5 X .8 SC
3	MS 0303517	4.0000	SCREW, BUTTUN HD. M5X.8X16MM
4	SG 0003011JX1	1.0000	CABLE ASSEMBLY, JX1A-JX1B
5	SG 000499079	1.0000	PLATE, (LT)-(RT) DRIVE MTG.
6	MW 0183610	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	LD 0002854	1.0000	TAG LAYOUT, SG CE-MARK
11	SG 0003279WPRT	1.0000	WIRE PACKAGE, RAM TURRET OPT.
12	SG 0003011CERT	1.0000	CABLE PACKAGE, RAM TURRET OPT.
13	F3 000997701	3.0000	LABEL, ID
14	SG 0003011CX2	1.0000	CABLE ASSEMBLY, CX2A-CX2B
15	18 0008776A01	1.0000	KIT, 5.5 KVA POWER SUPPLY

NOT SHOWN

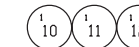
NAME: PANEL, RAM TURRET
 PART NUMBER: SG 0003279RTCE

Option Panel, Ram Turret with Live Tooling



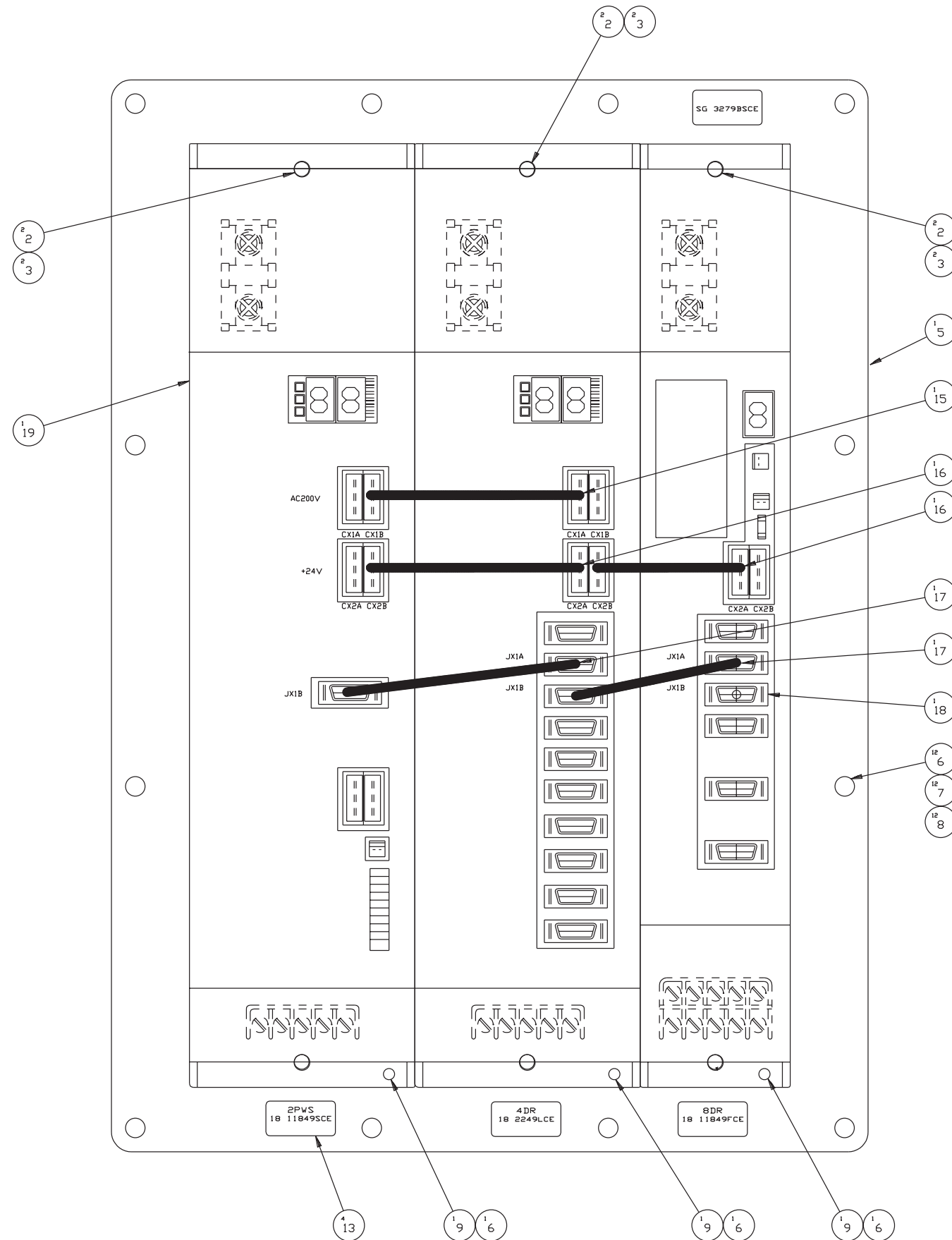
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SG 0012042TCA	1.0000	TERMINATING CONNECTOR ASSEMBLY
2	MW 0183510	6.0000	WASHER, LOCK REG. M5 X .8 SC
3	MS 0303517	6.0000	SCREW, BUTTUN HD. M5X.8X16MM
4	SG 0003011JX1	2.0000	CABLE ASSEMBLY, JX1A-JX1B
5	SG 000499081	1.0000	PLATE, (RT / LT) DRIVE MTG.
6	MW 0183610	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	LD 0002854	1.0000	TAG LAYOUT, SG CE-MARK
11	SG 0003279WPRL	1.0000	WIRE PACKAGE, RT / LT OPT.
12	SG 0003011CERL	1.0000	CABLE PACKAGE, RT / LT OPT.
13	F3 000997701	4.0000	LABEL, ID
14	SG 0003011CX2	2.0000	CABLE ASSEMBLY, CX2A-CX2B
15	18 0008776A01	1.0000	KIT, 5.5 KVA POWER SUPPLY

NOT SHOWN

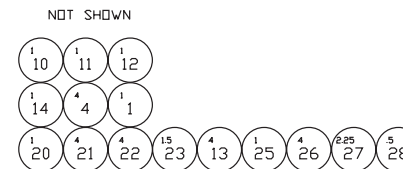


REV 12/19/14 12/26/14
 NAME PANEL, RAM TURRET /LIVE TOOLING
 PART NUMBER SG 0003279RTL

Option Panel, Sub-Spindle (Ball Screw)

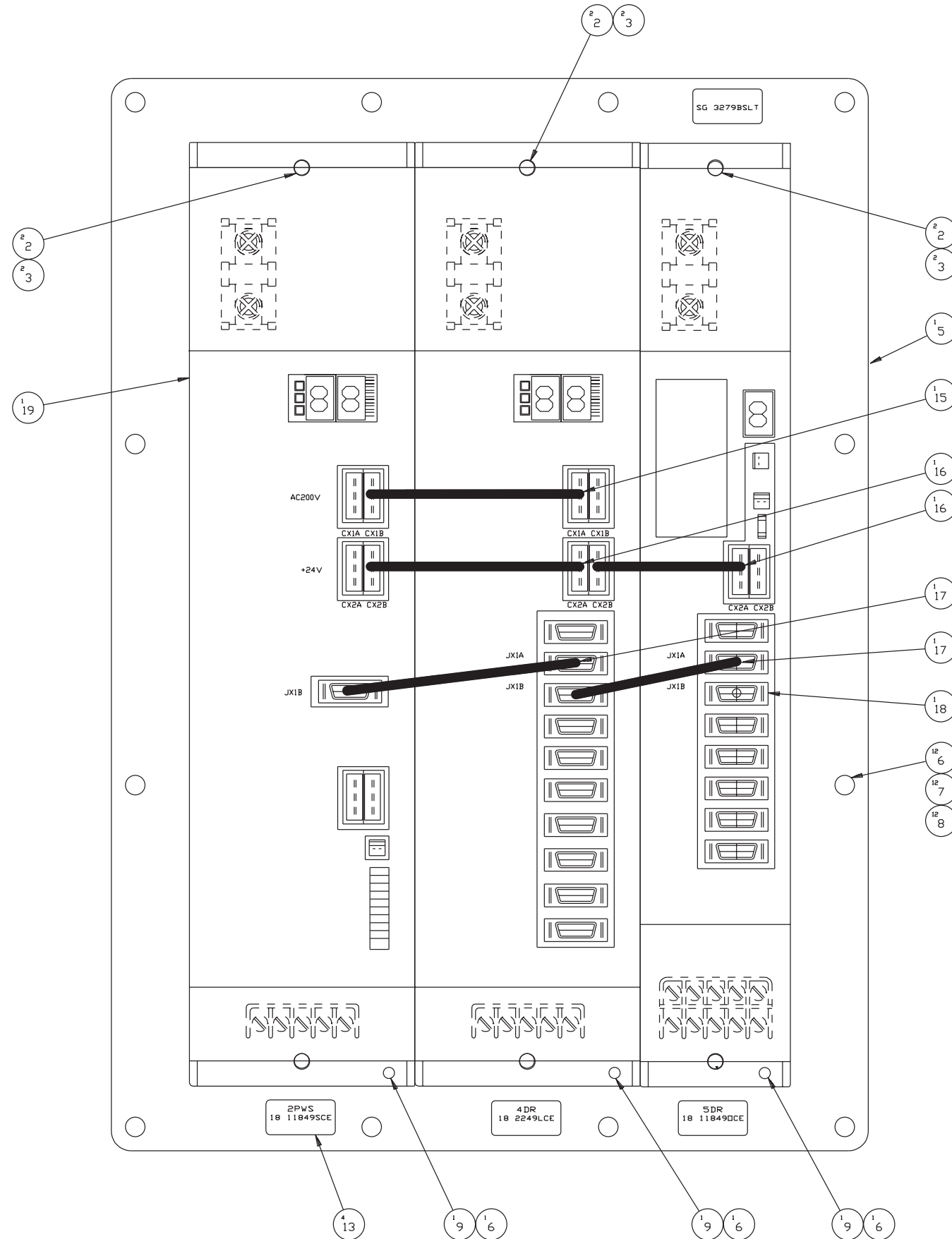


ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	LD 0002697	1.0000	LAYOUT-LOAD METER ASSY SG
2	MW 0183510	6.0000	WASHER, LOCK REG. M5 X .8 SC
3	MS 0303517	6.0000	SCREW, BUTTUN HD. M5X.8X16MM
4	Z6 0009188 E	4.0000	TERM, #10 RING 5-6 AWG BLU
5	SG 000499078	1.0000	PLATE, SS,LS,LT DR MTG-CEMAR
6	MW 0183610	15.0000	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	LD 0002854	1.0000	TAG LAYOUT - CEMARK
11	SG 0003279WPLA	1.0000	WIRE PACKAGE, SS/LA - CEMARK
12	SG 0003011CELA	1.0000	CABLE PACKAGE, SS/LA - CEMAR
13	F3 000997701	8.0000	LABEL, ID
14	SG 0011857CESS	1.0000	METER, SUB-SPIN. LOAD - CEMA
15	SG 0003011CX1	1.0000	CABLE ASSY - CX1A-CX1B
16	SG 0003011CX2	2.0000	CABLE ASSY - CX2A-CX2B
17	SG 0003011JX1	2.0000	CABLE ASSY - JX1A-JX1B
18	SG 0012042TCA	1.0000	TERMINATING CONNECTING ASSY.
19	18 0008776A01	1.0000	KIT, 5.5 KVA POWER SUPPLY
20	18 0002249LCE	1.0000	SPINDLE SYSTEM, A1.5, CEMARK
21	SG 001204201	4.0000	RECEPTACLE HOUSING FOR HONDA
22	SG 001204202	4.0000	RECEPTACLE, PRESS MOUNT TYPE
23	28 000301110	1.5000	CABLE, 28 AWG 10 PR TWISTED
25	SG 001180902	1.0000	CONNECTOR, RECEPTACLE
26	SG 0011809	4.0000	CONNECTOR, RECEPTACLE
27	16A000301104	2.2500	CABLE 4 CONDUCTOR 16 AWG
28	NC 001047302	0.5000	HEAT SHRINKABLE TUBING



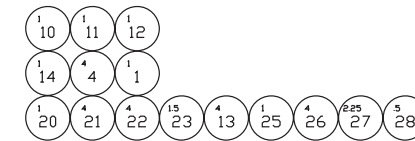
NAME: PANEL, B. S. SUB SPINDLE /LOWER AXIS
 PART NUMBER: SG 0003279BSCE

Option Panel, Sub-Spindle (Ball Screw) with Live Tooling



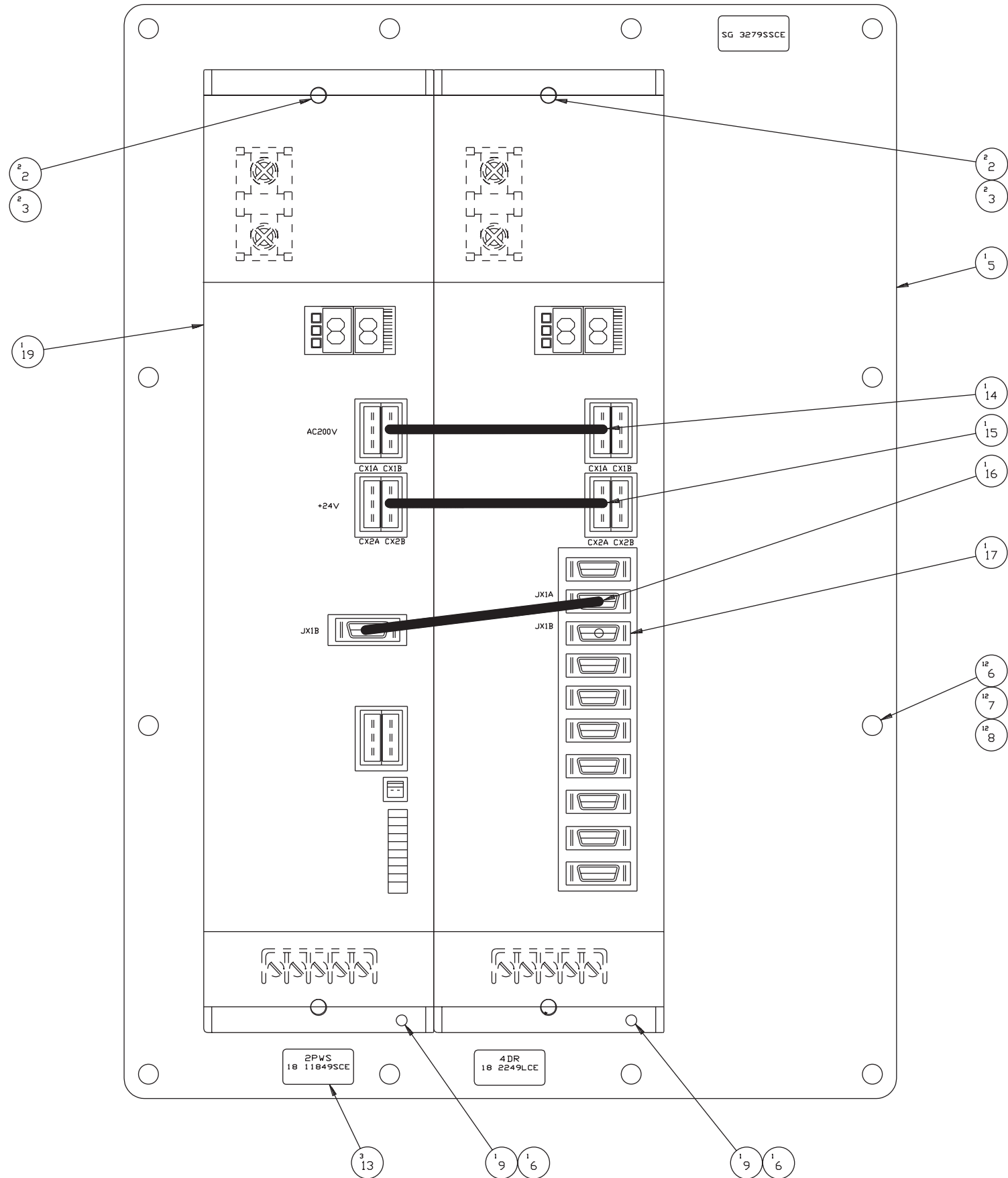
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	LD 0002697	1.0000	LAYOUT-LOAD METER ASSY SG
2	MW 0183510	6.0000	WASHER, LOCK REG. M5 X .8 SC
3	MS 0303517	6.0000	SCREW, BUTTON HD. M5X.8X16MM
4	26 0009188 E	4.0000	TERM, #10 RING 5-6 AWG BLU
5	SG 000499078	1.0000	PLATE, SS,LS,LT DR MTG-CEMAR
6	MW 0183610	15.0000	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	LD 0002854	1.0000	TAG LAYOUT - CEMARK
11	SG 0003279WPST	1.0000	WIRE PACKAGE, SS/LA/LT-CEMAR
12	SG 0003011CEST	1.0000	CABLE PACKAGE, SS/LA/LT-CEMA
13	F3 000997701	8.0000	LABEL, ID
14	SG 0011857CESS	1.0000	METER, SUB-SPIN. LOAD - CEMA
15	SG 0003011CX1	1.0000	CABLE ASSY - CX1A-CX1B
16	SG 0003011CX2	2.0000	CABLE ASSY - CX2A-CX2B
17	SG 0003011JX1	2.0000	CABLE ASSY - JX1A-JX1B
18	SG 0012042TCA	1.0000	TERMINATING CONNECTING ASSY.
19	18 0008776A01	1.0000	KIT, 5.5 KVA POWER SUPPLY
20	18 0002249LCE	1.0000	SPINDLE SYSTEM, A1.5, CEMARK
21	SG 001204201	4.0000	RECEPTACLE HOUSING FOR HONDA
22	SG 001204202	4.0000	RECEPTACLE, PRESS MOUNT TYPE
23	28 000301110	1.5000	CABLE, 28 AWG 10 PR TWISTED
25	SG 001180902	1.0000	CONNECTOR, RECEPTACLE
26	SG 0011809	4.0000	CONNECTOR, RECEPTACLE
27	16A000301104	2.2500	CABLE 4 CONDUCTOR 16 AWG
28	NC 001047302	0.5000	HEAT SHRINKABLE TUBING

NOT SHOWN



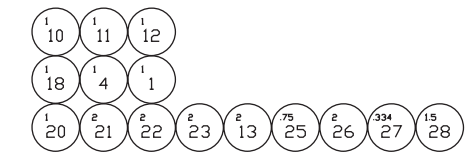
NAME: PANEL, B. S. SUB SPNDL/
LOWER AXIS/LIVE TOOLING
PART NUMBER: SG 0003279BSLT

Option Panel, Sub-Spindle (Hydraulic)



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	LD 0002697	1.0000	LAYOUT-LOAD METER ASSY SG
2	MW 0183510	4.0000	WASHER, LOCK REG. M5 X .8 SC
3	MS 0303517	4.0000	SCREW, BUTTON HD. M5X.8X16MM
4	26 0009188 E	1.0000	TERM, #10 RING 5-6 AWG BLU
5	SG 000499080	1.0000	PLATE, <SS HYD> DR MTG-CEMAR
6	MW 0183610	14.0000	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	2.0000	SCREW,SOC.HD.CAP M6X1.0X12MM
10	LD 0002854	1.0000	TAG LAYOUT - CEMARK
11	SG 0003279WPSS	1.0000	WIRE PACKAGE, SUB SPIN-CEMAR
12	SG 0003011CESS	1.0000	CABLE PACKAGE, SUB SPIN-CEMA
13	F3 000997701	5.0000	LABEL, ID
14	SG 0003011CX1	1.0000	CABLE ASSY - CX1A-CX1B
15	SG 0003011CX2	1.0000	CABLE ASSY - CX2A-CX2B
16	SG 0003011JX1	1.0000	CABLE ASSY - JX1A-JX1B
17	SG 0012042TCA	1.0000	TERMINATING CONNECTING ASSY.
18	SG 0011857CESS	1.0000	METER, SUB-SPIN. LOAD - CEMA
19	18 0008776A01	1.0000	KIT, 5.5 KVA POWER SUPPLY
20	18 0002249LCE	1.0000	SPINDLE SYSTEM, A1.5, CEMARK
21	SG 0011809	2.0000	CONNECTOR, RECEPTACLE
22	SG 001204201	2.0000	RECEPTACLE HOUSING FOR HONDA
23	SG 001204202	2.0000	RECEPTACLE, PRESS MOUNT TYPE
25	28 000301110	0.7500	CABLE, 28 AWG 10 PR TWISTED
26	SG 001180902	2.0000	CONNECTOR, RECEPTACLE
27	NC 001047302	0.3340	HEAT SHRINKABLE TUBING
28	16A000301104	1.5000	CABLE 4 CONDUCTOR 16 AWG

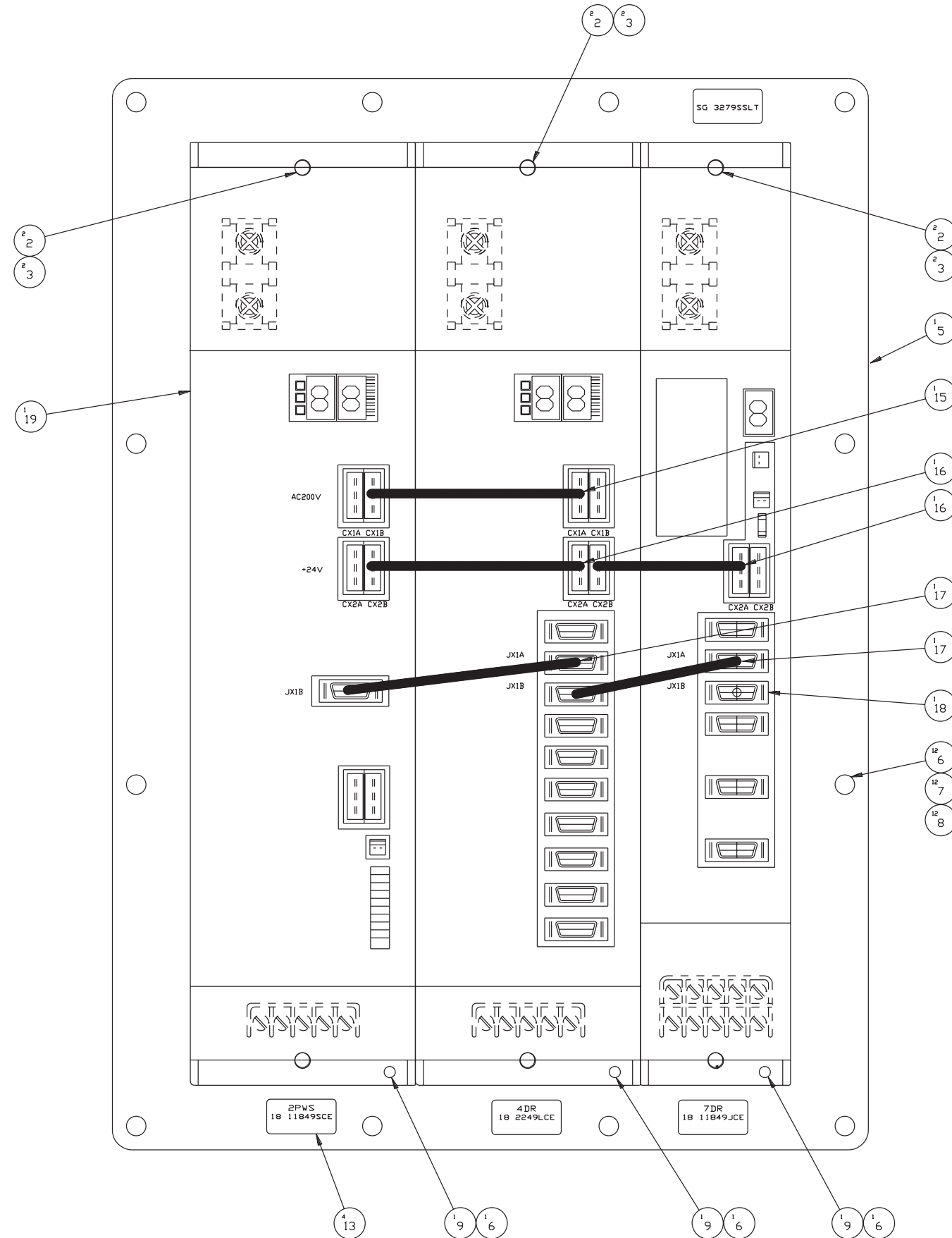
NOT SHOWN



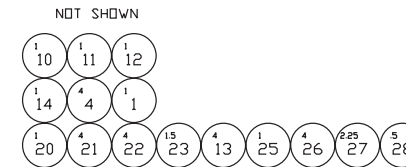
NAME
PANEL,
SUB SPINDLE (HYD)

PART NUMBER
SG 0003279SSCE

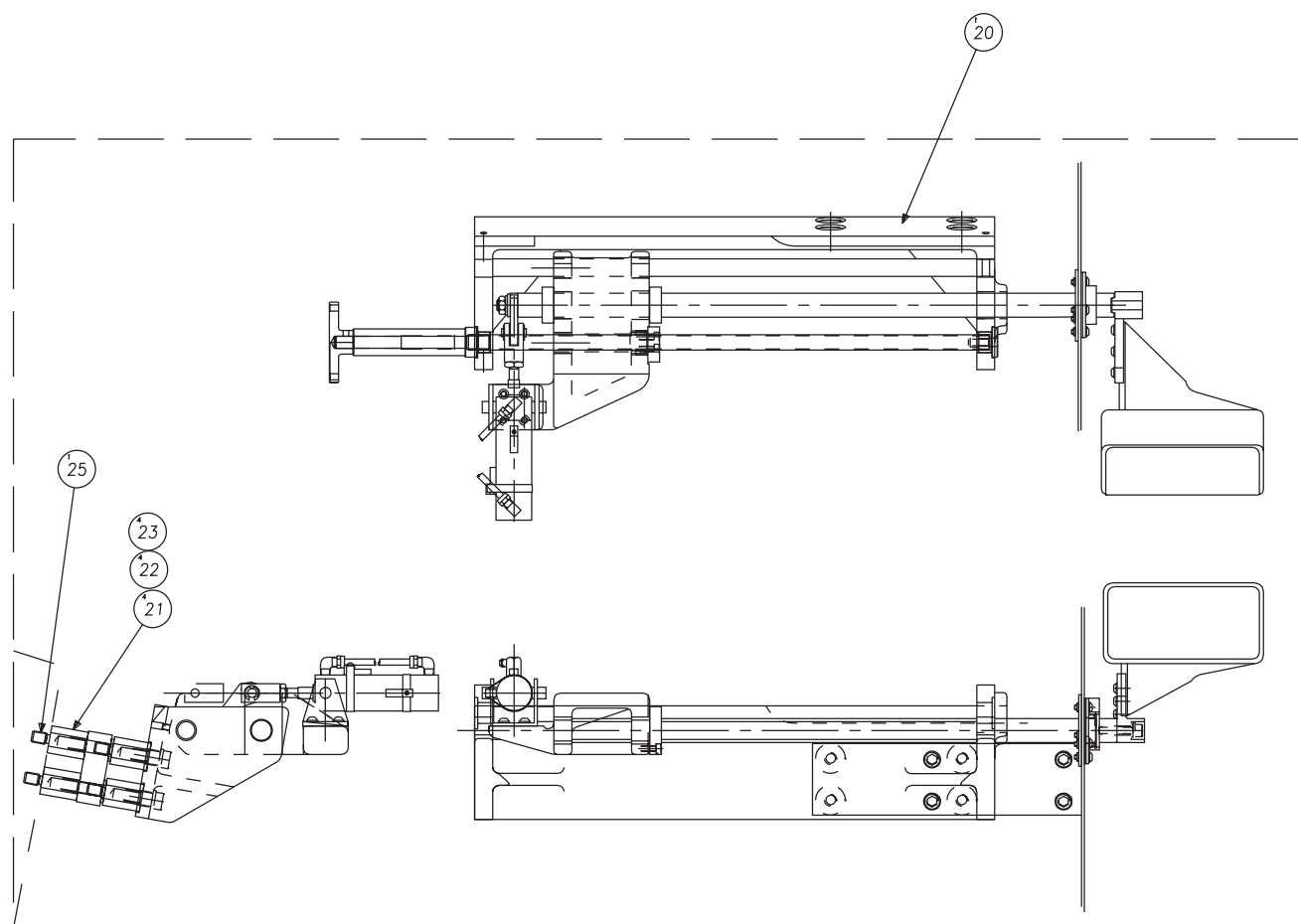
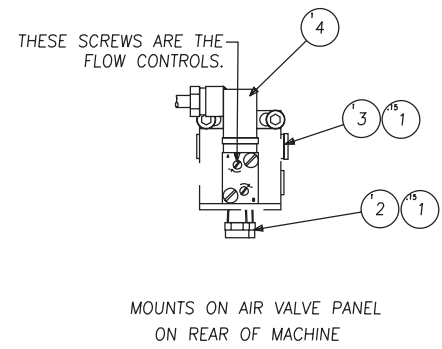
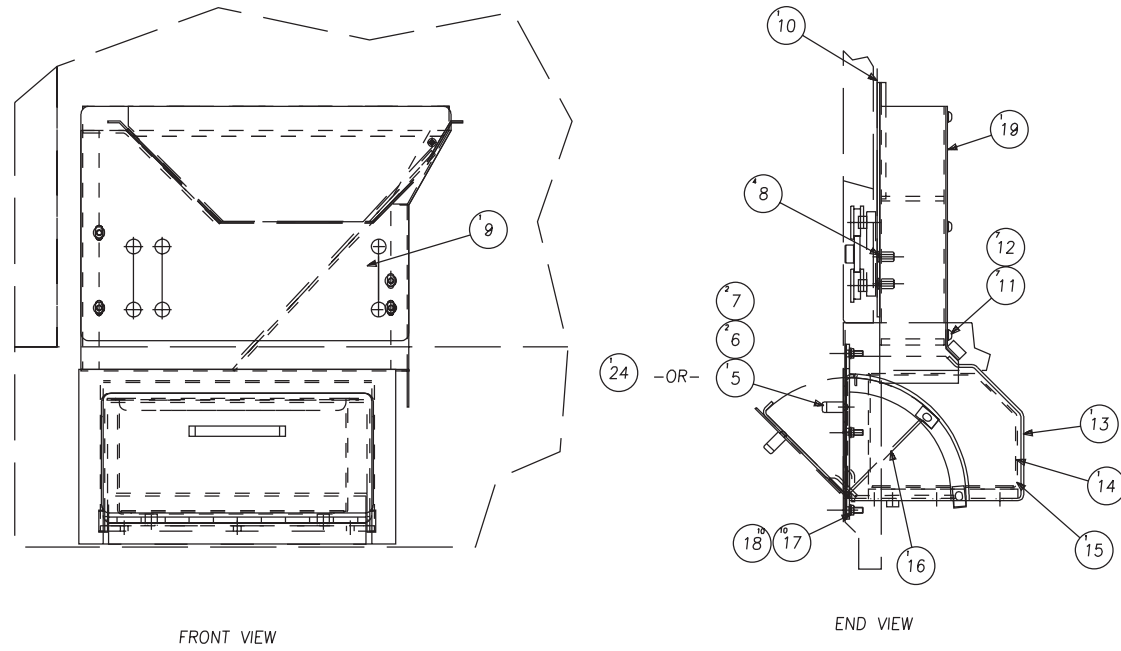
Option Panel, Sub-Spindle (Hydraulic) with Live Tooling



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	LD 0002697	1.0000	LAYOUT-LOAD METER ASSY SG
2	MW 0183510	6.0000	WASHER, LOCK REG. M5 X .8 SC
3	MS 0303517	6.0000	SCREW, BUTTN HD. M5X.8X16MM
4	26 0009188 E	4.0000	TERM, #10 RING 5-6 AWG BLU
5	SG 000499078	1.0000	PLATE, SS,LS,LT DR MTG-CEMAR
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	LD 0002854	1.0000	TAG LAYOUT - CEMARK
11	SG 0003279WPH	1.0000	WIRE PACKAGE, SS/LT - CEMARK
12	SG 0003011CEH	1.0000	CABLE PACKAGE, SS/LT - CEMAR
13	F3 000997701	8.0000	LABEL, ID
14	SG 0011857CESS	1.0000	METER, SUB-SPIN. LOAD - CEMA
15	SG 0003011CX1	1.0000	CABLE ASSY - CX1A-CX1B
16	SG 0003011CX2	2.0000	CABLE ASSY - CX2A-CX2B
17	SG 0003011JX1	2.0000	CABLE ASSY - JX1A-JX1B
18	SG 0012042TCA	1.0000	TERMINATING CONNECTING ASSY.
19	18 0008776A01	1.0000	KIT, 5.5 KVA POWER SUPPLY
20	18 0002249LCE	1.0000	SPINDLE SYSTEM, A1.5, CEMARK
21	SG 001204201	4.0000	RECEPTACLE HOUSING FOR HONDA
22	SG 001204202	4.0000	RECEPTACLE, PRESS MOUNT TYPE
23	28 000301110	1.5000	CABLE, 28 AWG 10 PR TWISTED
25	SG 001180902	1.0000	CONNECTOR, RECEPTACLE
26	SG 0011809	4.0000	CONNECTOR, RECEPTACLE
27	16A000301104	2.2500	CABLE 4 CONDUCTOR 16 AWG
28	NC 001047302	0.5000	HEAT SHRINKABLE TUBING



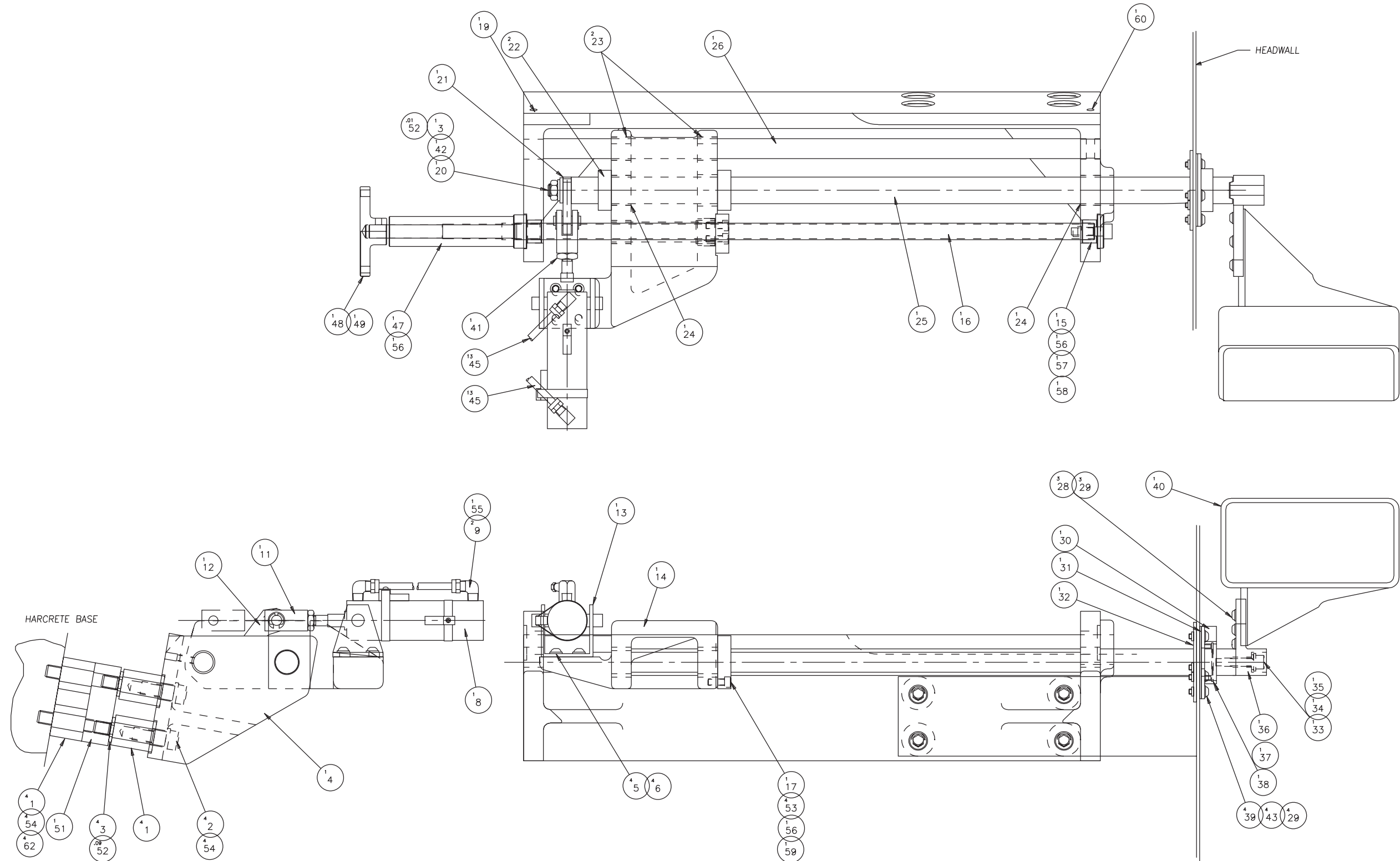
NAME: PANEL, SUB SPINDLE (HYD) SG 0003279SSLT /LIVE TOOLING



25	NC 0010884	1	LOCTITE 242
24	CS 001194802	1	HANDLE, PULL
23	MW 0194210	4	WASHER
22	MS 0104223	4	SCREW
21	CS 001019008	4	STAND OFF
20	SGB0002916 A	1	PART CATCHER MECH. ASSEM.
19	CS 001011588	1	COVER, CHUTE
18	MW 0183610	10	WASHER, LOCK
17	MN 0113610	10	NUT, HEX
16	CS 000399007	1	TRAY,PART
15	CS 000399046	1	BASKET, PART
14	CS 000399013	1	BASKET, PART
13	CS 000399006	1	BOX, PARTS
12	MW 0103510	7	WASHER, FLAT M5 ST.
11	MS 0303514	7	SCREW
10	CS 001011635	1	GASKET, CHUTE
9	CS 0000221CW	1	CHUTE, WELD ASSY
8	MW 0183510	4	WASHER, LOCK
7	MW 0183410	2	WASHER, LOCK
6	0300206	2	SCREW
5	CS 001064207	1	HANDLE, PULL
4	SGA001023409	1	VALVE
3	RF 001133501	1	MUFFLER
2	268000770204	1	CONN., STR.
1	LT 0010884 S	.3	SEALANT, PIPE
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME: PART CATCHER MECHANICAL ASSEM PART NUMBER: SG 0002916
 SHEET: 1 of 1

Part Catcher Sub-Assembly



NAME
PART CATCHER MECHANICAL ASSEM

PART NUMBER
SGB-0002016-A

SHEET
1 of 2

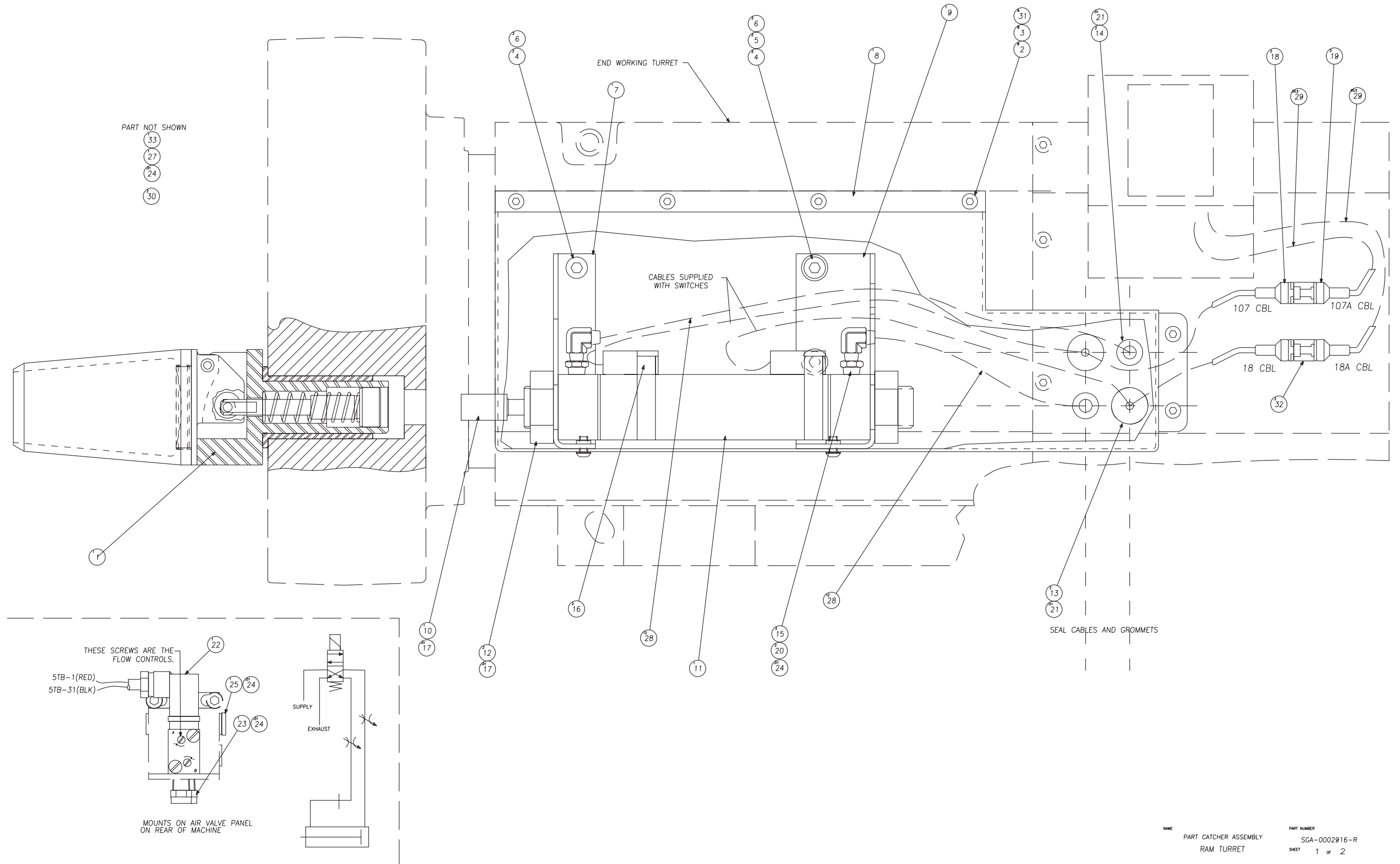
62	MS-0104223	4	SCREW M12
61	RF-0011871	4	BAG, MAIL
60	MS-0553616	1	SET SCREW
59	NC-0010884-01	1	LOCTITE REMOVEABLE
58	MS-0103818	1	SCREW, SOC HD M8 x 30
57	NC-0010884	1	LOCTITE 242
56	CS-0010984	3	GREASE
55	LT-0010884-S	1	SEALANT, PIPE
54	MW-0184210	8	WASHER, LOCK,SQ. M12 ST.
53	MS-0103516	4	SCREW, SOC.HD.CAP M5-.8X1
52	NC-0010884	1	LOCTITE, #242
51	SG-0001881-01	1	PLATE, PART CATCHER
49	TL-0006708	1	DOWEL
48	CL-0000302	1	HANDLE
47	SG-0002816-16	1	BUSHING, LOCKING
45	AH-0007007-NF	26	TUBING, 1/4 O.D.
43	MW-0183510	4	WASHER, LOCK M5 ST.
42	MW-0184210	1	WASHER, LOCK M12 STEEL
41	AH-0008181	1	WASHER, LOCK
40	SGA-0002816-12	1	CATCHER, PART
39	MS-0303517	4	SCREW, BT.HD.M5-.8X16
38	CS-0011188-08	1	SEAL
37	137-0008231-01	1	RING, RETAINER
36	SG-0002816-17	1	BLOCK, CATCHER
35	MW-0183810	1	WASHER, LOCK M8-1.25 ST.
34	MW-0103810	1	WASHER, FLAT M8-1.25 ST.
33	MS-0103821	1	SCREW, SOC.HD.CAP M8-1.5X
32	CS-0002880-53	1	PLATE, SEAL
31	CS-0010116-24	1	GASKET, SEAL
30	CS-0011188-08	1	HOUSING, SEAL
29	MW-0103510	7	WASHER, FLAT M5 ST.
28	MS-0303515	3	SCREW, BT.HD.M5-.8X10
26	RH-0006581-01	1	SHAFT, SLIDE
25	SG-0006581-01	1	SHAFT, ROTATING
24	CS-0008004-04	2	BEARING, BUSHING
23	RH-0010771	2	LINER, RULON
22	CS-0001834	2	COLLAR, LOCK
21	CT-0008604	1	KEY FOR DIAL
20	MN-0114210	1	NUT, HEX M12-1.75
19	MS-0613616	1	SCREW, SOC SET-CONE M6-1X
17	SG-0002816-14	1	NUT, PART CHUTE ADJ.
16	SG-0011104-03	1	SHAFT, PART CHUTE ADJ.
15	SG-0002816-15	1	BUSHING
14	SG-0002816-05	1	MOUNT, CYLINDER
13	SG-0002816-TB	1	BRACKET, TRUNION
12	CS-0000458	1	ARM, LEVER
11	CS-0002817-P2	1	CLEVIS, PISTON ROD
9	268-0007702-04	2	ELBOW, 90 DEG
8	CS-0002817-PC	1	CYLINDER, PART CATCHER
6	MW-0103610	4	WASHER, FLAT M6 ST.
5	MS-0303616	4	SCREW BT HD M6X1X12
4	SG-0002816-13	1	BASE PART CATCHER
3	MW-0104210	5	WASHER, FLAT M12 ST.
2	MS-0104221	4	SCREW SOC HD CAP M12X1.75
1	CS-0010180-08	8	STANDOFF PART CATCHER
ITEM	PART NUMBER	QTY	DESCRIPTION

NOT SHOWN

4
61

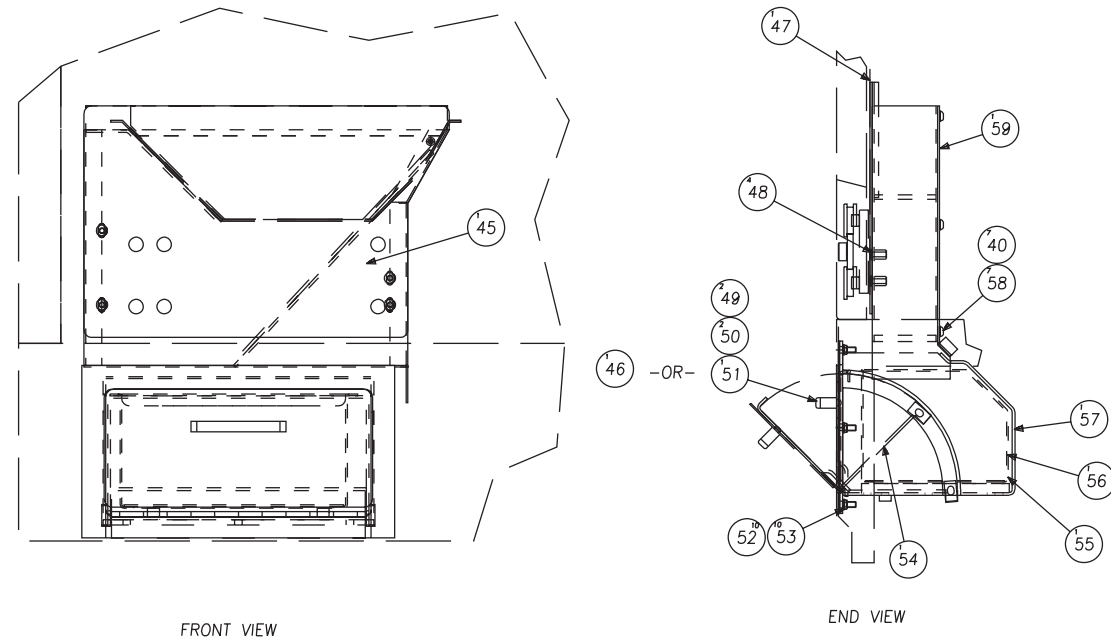
NAME PART NUMBER
PART CATCHER MECHANICAL ASSEM SGB-0002816-A
SHEET 2 of 2

Part Catcher, Ram Turret

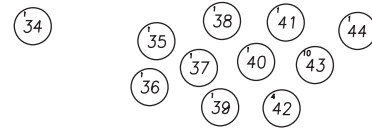


NAME PART CATCHER ASSEMBLY
RAM TURRET

PART NUMBER SGA-0002916-R
SHEET 1 of 2



NOT SHOWN



ITEM	PART NUMBER	QTY	DESCRIPTION
59	59	1	COVER, CHUTE

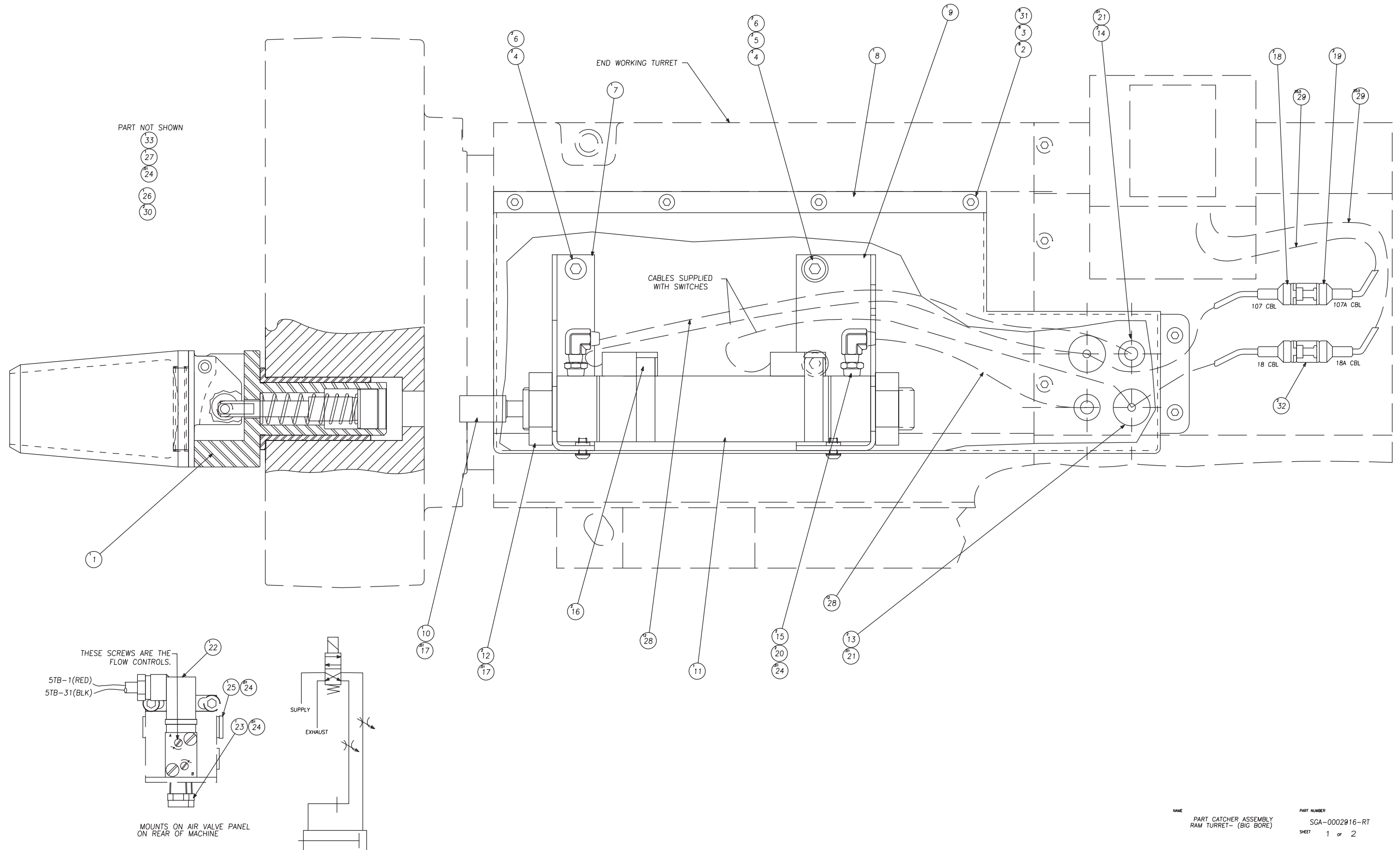
58	MS-0303514	7	SCREW
57	CS-0003990-06	1	BOX, PARTS
56	CS-0003990-13	1	BASKET, PART
55	CS-0003990-46	1	BASKET, PART
54	CS-0003990-07	1	TRAY,PART
53	MN-0113610	10	NUT, HEX
52	MW-0183610	10	WASHER, LOCK
51	CS-0010642-07	1	HANDLE, PULL
50	0300206	2	SCREW
49	MW-0183410	2	WASHER, LOCK
48	MW-0183510	4	WASHER, LOCK
47	CS-0010116-35	1	GASKET, CHUTE
46	CS-0011948-02	1	HANDLE, PULL
45	CS-0000221-CW	1	CHUTE, WELD ASSY
44	CS-0009431-21	1	"O" RING
43	MW-0263610	10	WASHER
42	CS-0007707-07	4	NUT
41	MW-0193510	1	WASHER
40	MW-0103510	8	WASHER
39	MN-0113510	1	NUT
38	CS-0007876-01	1	COVER
37	CS-0007876-B	1	WASHER
36	CS-0010116-28	1	GASKET
35	CSA-0010115-87	1	COVER
34	SB-0002916-C1	1	PART CATCHER - .13 TO 1"
33	LO-0002638	1	SG CABLE CHART
32	SG-0003011-01	2	CABLE ASSEMBLY
31	MD-0003623-B	8	WASHER
30	SG-0009727-01	2	PLUG, NYLON
29	22A-0003011-03	41	CABLE
28	AH-0007007-NF	24	TUBING
27	MS-0553814	1	SCREW, SET
25	RF-0011335-01	1	MUFFLER
24	LT-0010884-S	0	SEALANT, PIPE
23	268-0007702-04	1	CONN., STR.
22	SG-0010234-09	1	VALVE
21	GE-0010884	0	SILICON
20	AUA-0010785	2	BUSHING
19	CN-0010225	2	CONNECTOR, CABLE-FEMALE
18	CN-0012042-42	2	CONNECTOR, CABLE-MALE
17	NC-0010884-01	0	ADHESIVE, LOCTITE 222
16	SG-0010224-01	2	SWITCH, REED
15	FR-0007702-03	2	CONNECTOR, 90 DEG
14	NC-0009532-05	2	GROMMET,5/8 OD-5/16 ID
13	SG-0009532-02	2	GROMMET,7/8 OD-3/16 ID
12	SG-0002916-N	2	1-14T
11	SG-0002917-01	1	CYLINDER, PARTS CATCHER
10	SG-0002916-P	1	PLUNGER
9	SG-0002990-51	1	BRACKET, PARTS CATCHER RI
8	SG-0010215-18	1	COVER, PARTS CATCHER
7	SG-0002990-50	1	BRACKET, PARTS CATCHER LE
6	MS-0103817	4	SCREW,SOC.HD.CAP M8X1.25X
5	MW-0103810	2	WASHER, FLAT M8X1.25
4	MW-0193810	4	WASHER,LOCK M8X1.25
3	MW-0193510	8	WASHER, M5 STEEL
2	MS-0303516	8	SCREW,BUT HD M5X.8 X 12MM
1	SGA-0002916-03	1	PART CATCH ASSEM
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME PART CATCHER ASSEMBLY
RAM TURRET

PART NUMBER SGA-0002916-R

SHEET 2 of 2

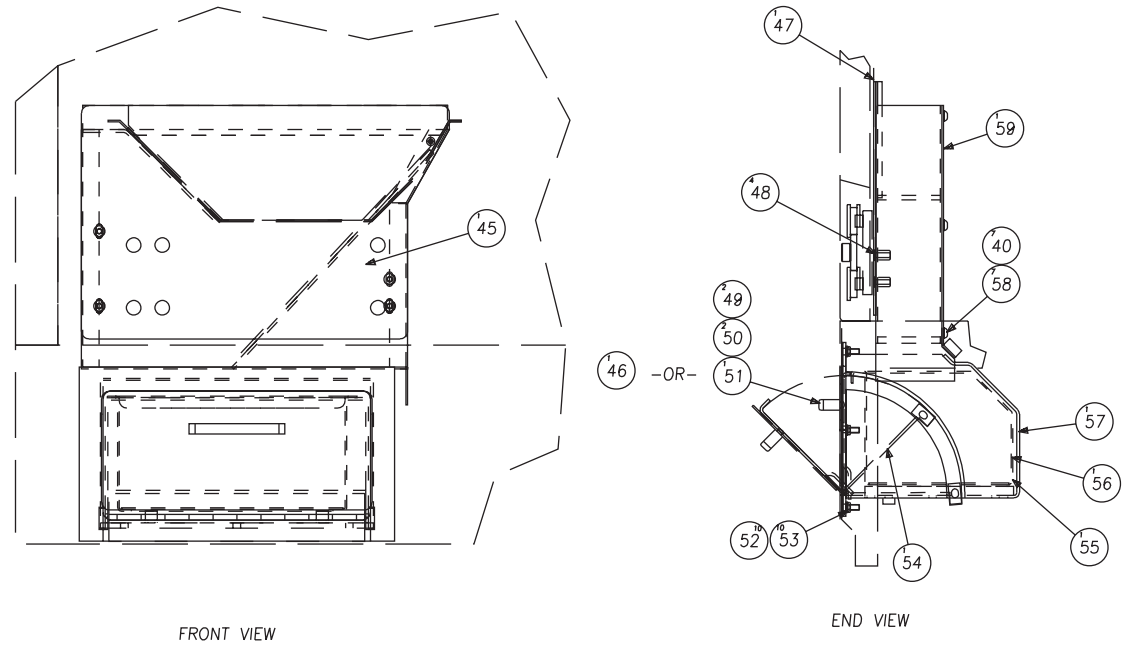
Part Catcher, Ram Turret, Big-Bore Machine



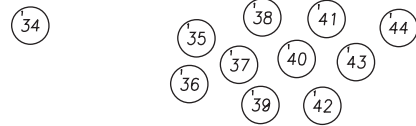
NAME
PART CATCHER ASSEMBLY
RAM TURRET- (BIG BORE)

PART NUMBER
SGA-0002916-RT
SHEET 1 of 2

Part Catcher, Ram Turret, Big-Bore Machine



NOT SHOWN



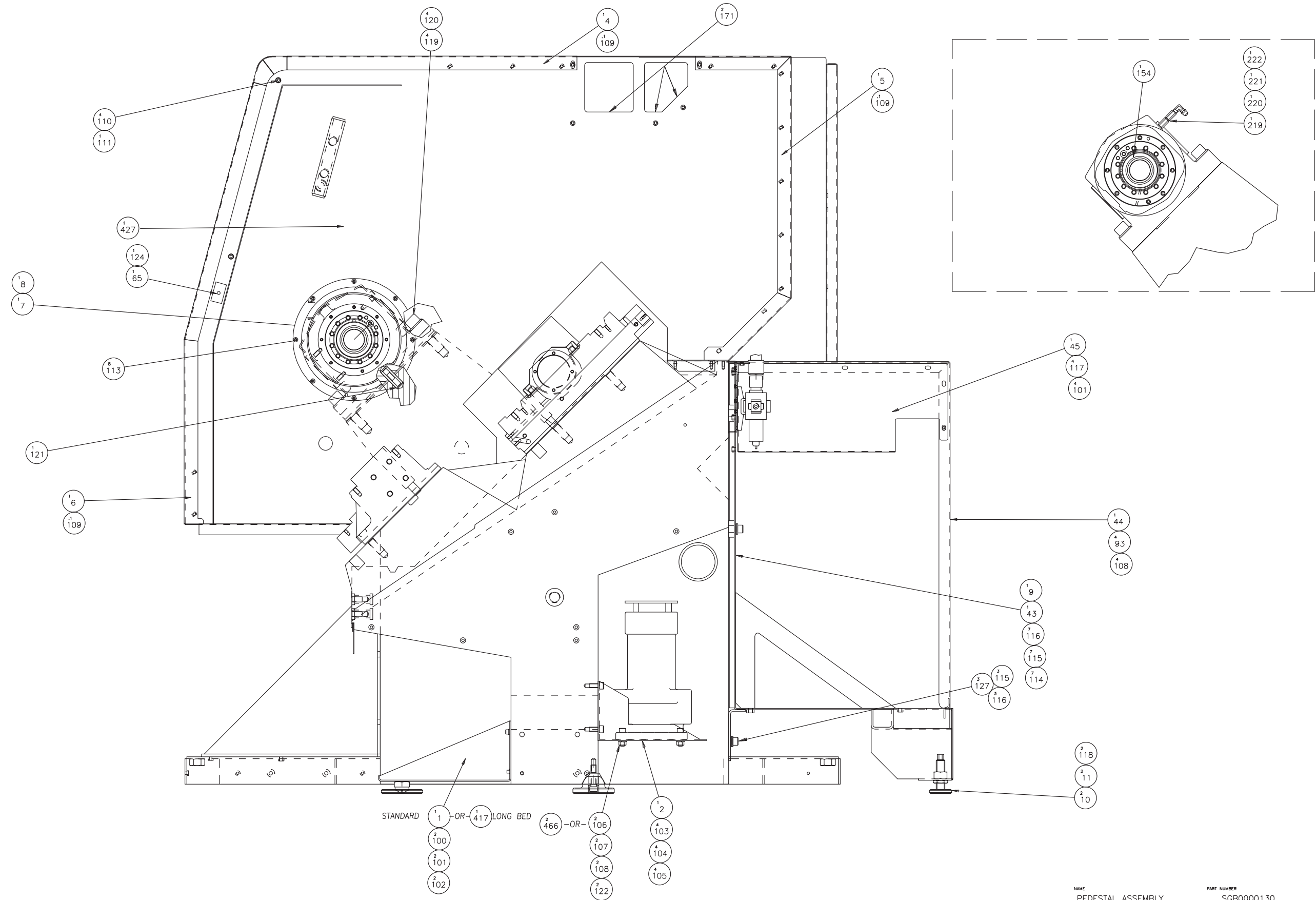
ITEM	PART NUMBER	QTY	DESCRIPTION
59	59	1	COVER, CHUTE
58	MS-0303514	7	SCREW

57	CS-0003990-06	1	BOX, PARTS
56	CS-0003990-13	1	BASKET, PART
55	CS-0003990-46	1	BASKET, PART
54	CS-0003990-07	1	TRAY,PART
53	MN-0113610	10	NUT, HEX
52	MW-0183610	10	WASHER, LOCK
51	CS-0010642-07	1	HANDLE, PULL
50	0300206	2	SCREW
49	MW-0183410	2	WASHER, LOCK
48	MW-0183510	4	WASHER, LOCK
47	CS-0010116-35	1	GASKET, CHUTE
46	CS-0011948-02	1	HANDLE, PULL
45	CS-0000221-CW	1	CHUTE, WELD ASSY
44	CS-0009431-21	1	"O" RING
43	MW-0263610	1	WASHER
42	CS-0007707-07	1	NUT
41	MW-0193510	1	WASHER
40	MW-0103510	8	WASHER
39	MN-0113510	1	NUT
38	CS-0007876-01	1	COVER
37	CS-0007876-B	1	WASHER
36	CS-0010116-28	1	GASKET
35	CSA-0010115-87	1	COVER
34	SB-0002916-C1	1	PART CATCHER - .13 TO 1"
33	LO-0002638	1	SG CABLE CHART
32	SG-0003011-01	2	CABLE ASSEMBLY
31	MD-0003623-B	8	WASHER
30	SG-0009727-01	2	PLUG, NYLON
29	22A-0003011-03	41	CABLE
28	AH-0007007-NF	24	TUBING
27	MS-0553814	1	SCREW, SET
26	SG-0002916-C	1	CATCHER, PART (UP TO 2")
25	RF-0011335-01	1	MUFFLER
24	LT-0010884-S	0	SEALANT, PIPE
23	268-0007702-04	1	CONN., STR.
22	SG-0010234-09	1	VALVE
21	GE-0010884	0	SILICON
20	AUA-0010785	2	BUSHING
19	CN-0010225	2	CONNECTOR, CABLE-FEMALE
18	CN-0012042-42	2	CONNECTOR, CABLE-MALE
17	NC-0010884-01	0	ADHESIVE, LOCTITE 222
16	SG-0010224-01	2	SWITCH, REED
15	FR-0007702-03	2	CONNECTOR, 90 DEG
14	NC-0009532-05	2	GROMMET,5/8 OD-5/16 ID
13	SG-0009532-02	2	GROMMET,7/8 OD-3/16 ID
12	SG-0002916-N	2	1-14T
11	SG-0002917-01	1	CYLINDER, PARTS CATCHER
10	SG-0002916-P	1	PLUNGER
9	SG-0002990-51	1	BRACKET, PARTS CATCHER RI
8	SG-0010215-18	1	COVER, PARTS CATCHER
7	SG-0002990-50	1	BRACKET, PARTS CATCHER LE
6	MS-0103817	4	SCREW,SOC.HD.CAP M8X1.25X
5	MW-0103810	2	WASHER, FLAT M8X1.25
4	MW-0193810	4	WASHER,LOCK M8X1.25
3	MW-0193510	8	WASHER, M5 STEEL
2	MS-0303516	8	SCREW,BUT HD M5X.8 X 12MM
1	SGA-0002916-03	1	PART CATCH ASSEM

NAME PART CATCHER ASSEMBLY
RAM TURRET- (BIG BORE)

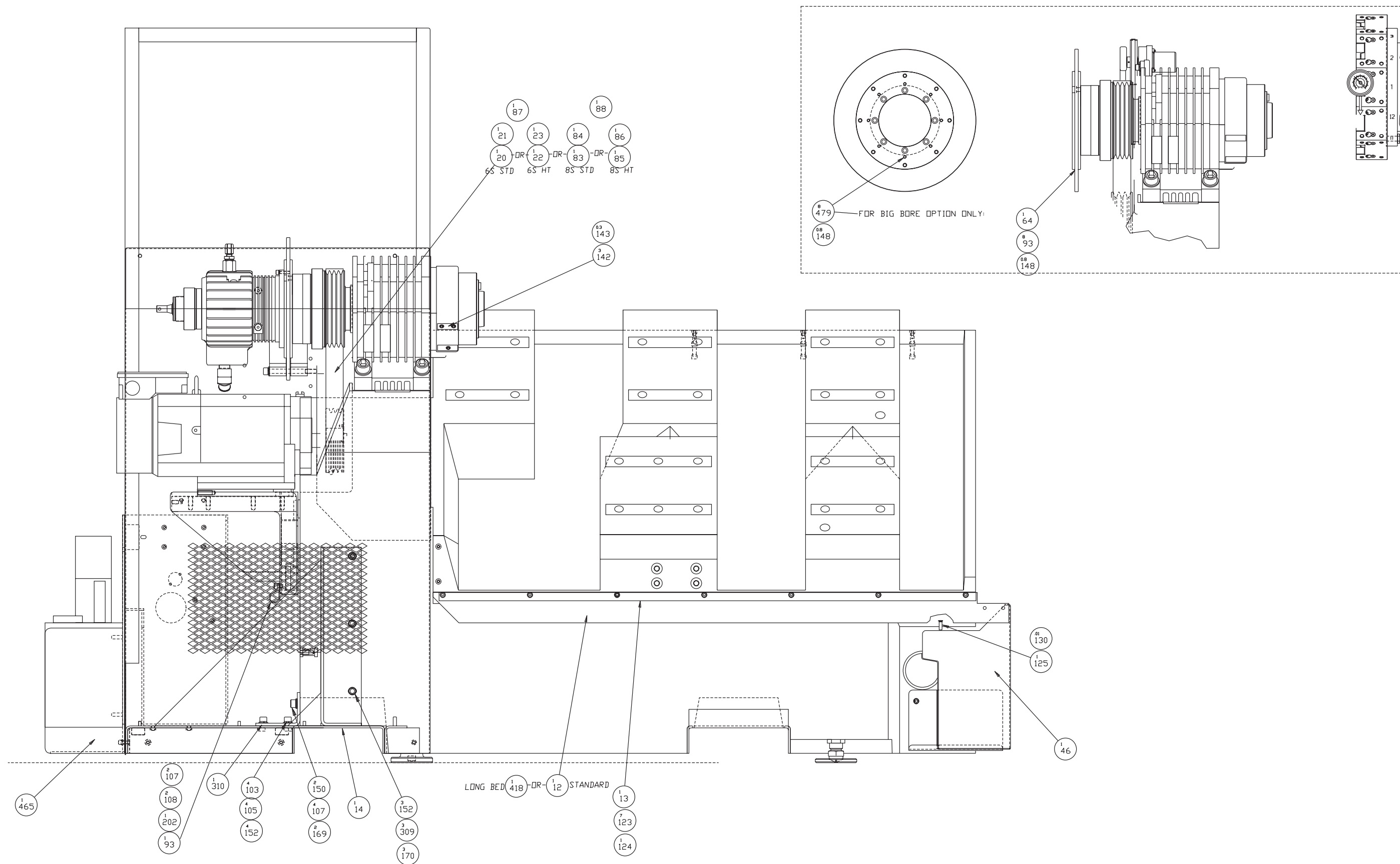
PART NUMBER SGA-0002916-RT
SHEET 2 of 2

Pedestal Assembly



NAME
PEDESTAL ASSEMBLY

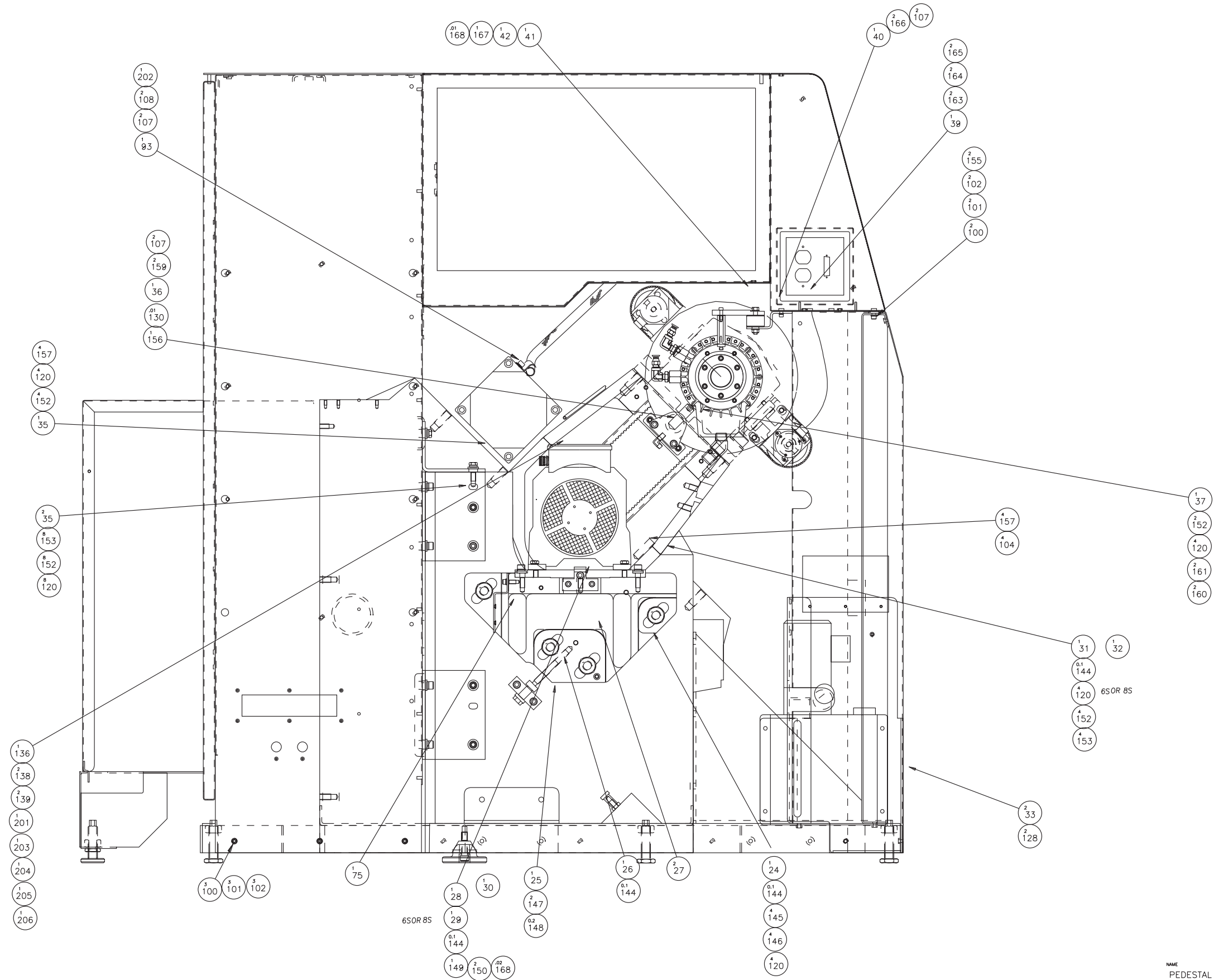
PART NUMBER
SGB0000130



NAME
PEDESTAL ASSEMBLY

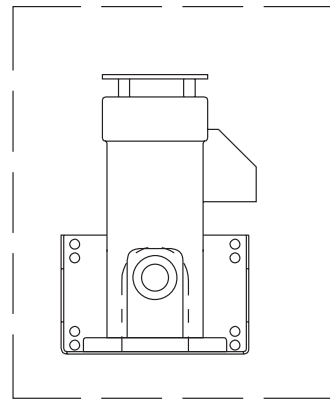
PART NUMBER
SGB0000130

Pedestal Assembly

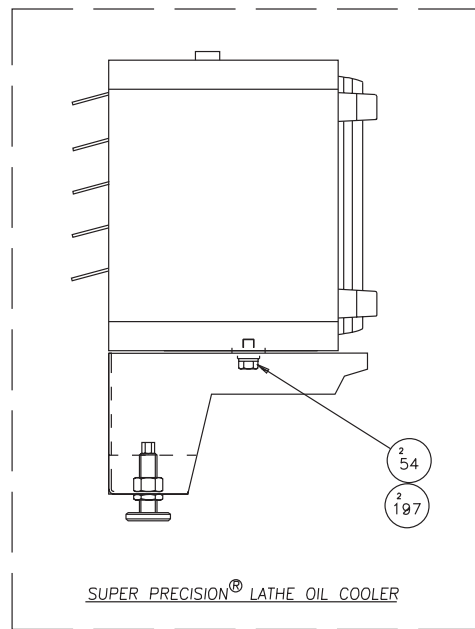
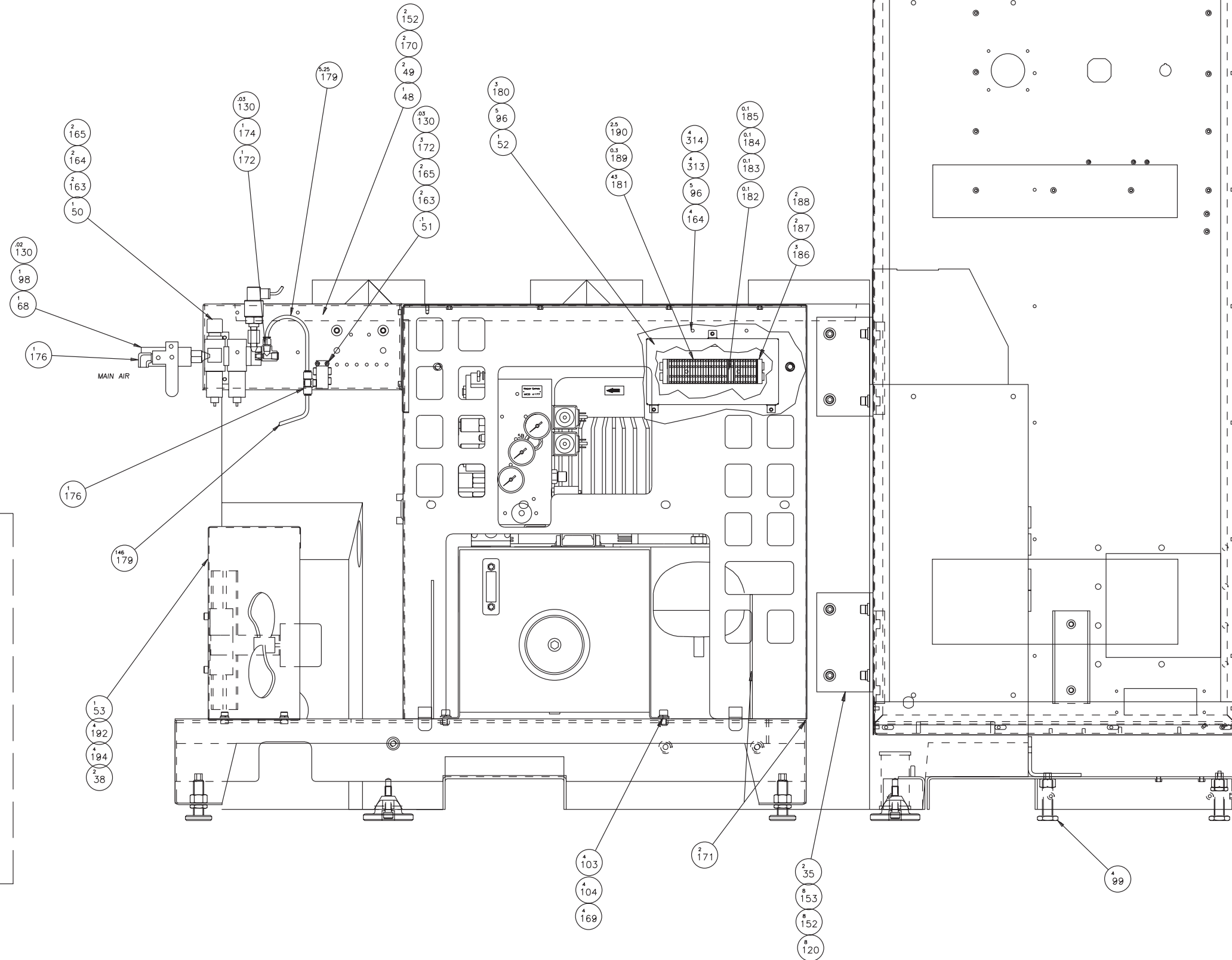


NAME
PEDESTAL ASSEMBLY

PART NUMBER
SGB0000130



COOLANT PUMP
BEHIND FAN

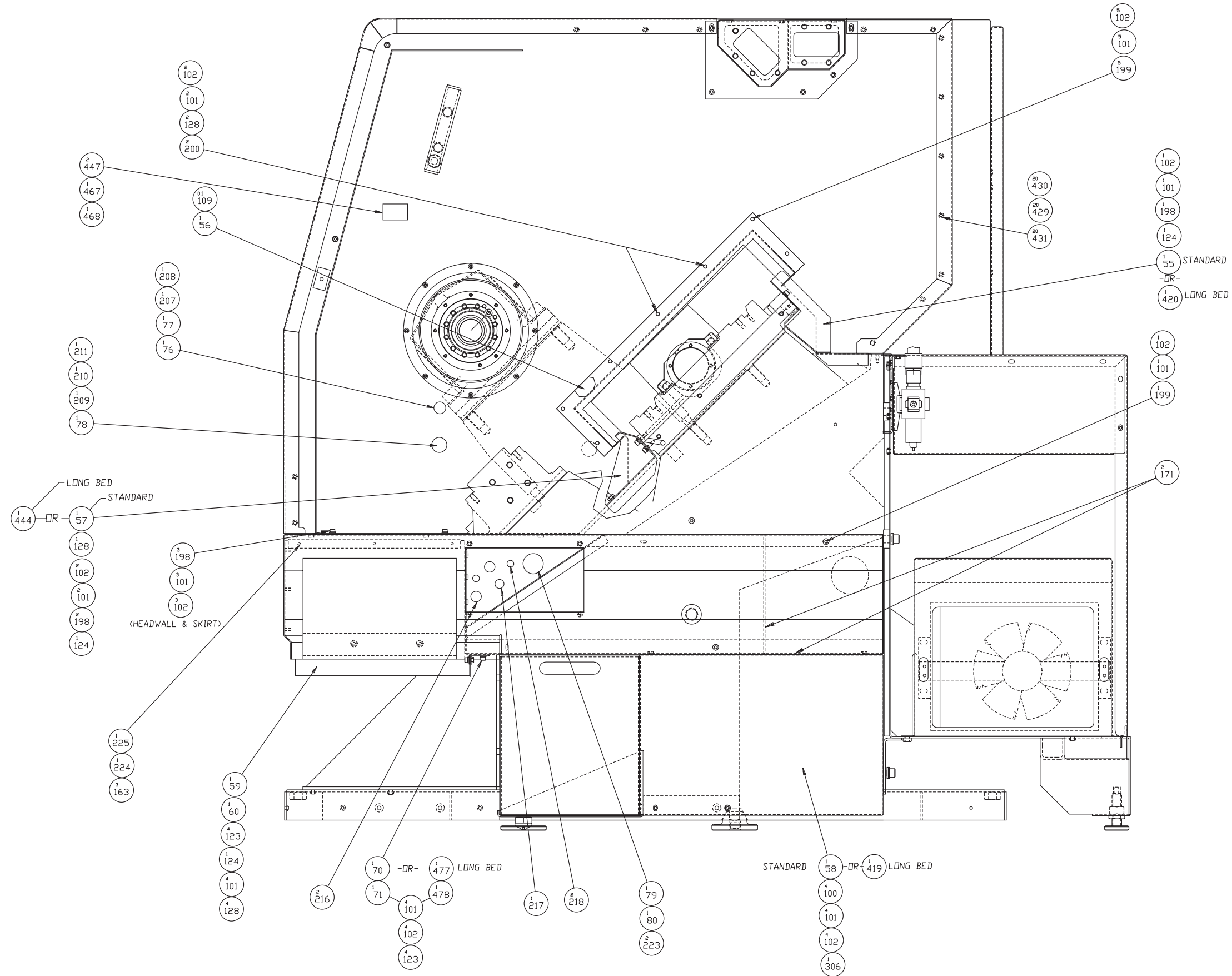


SUPER PRECISION[®] LATHE OIL COOLER

NAME
PEDESTAL ASSEMBLY

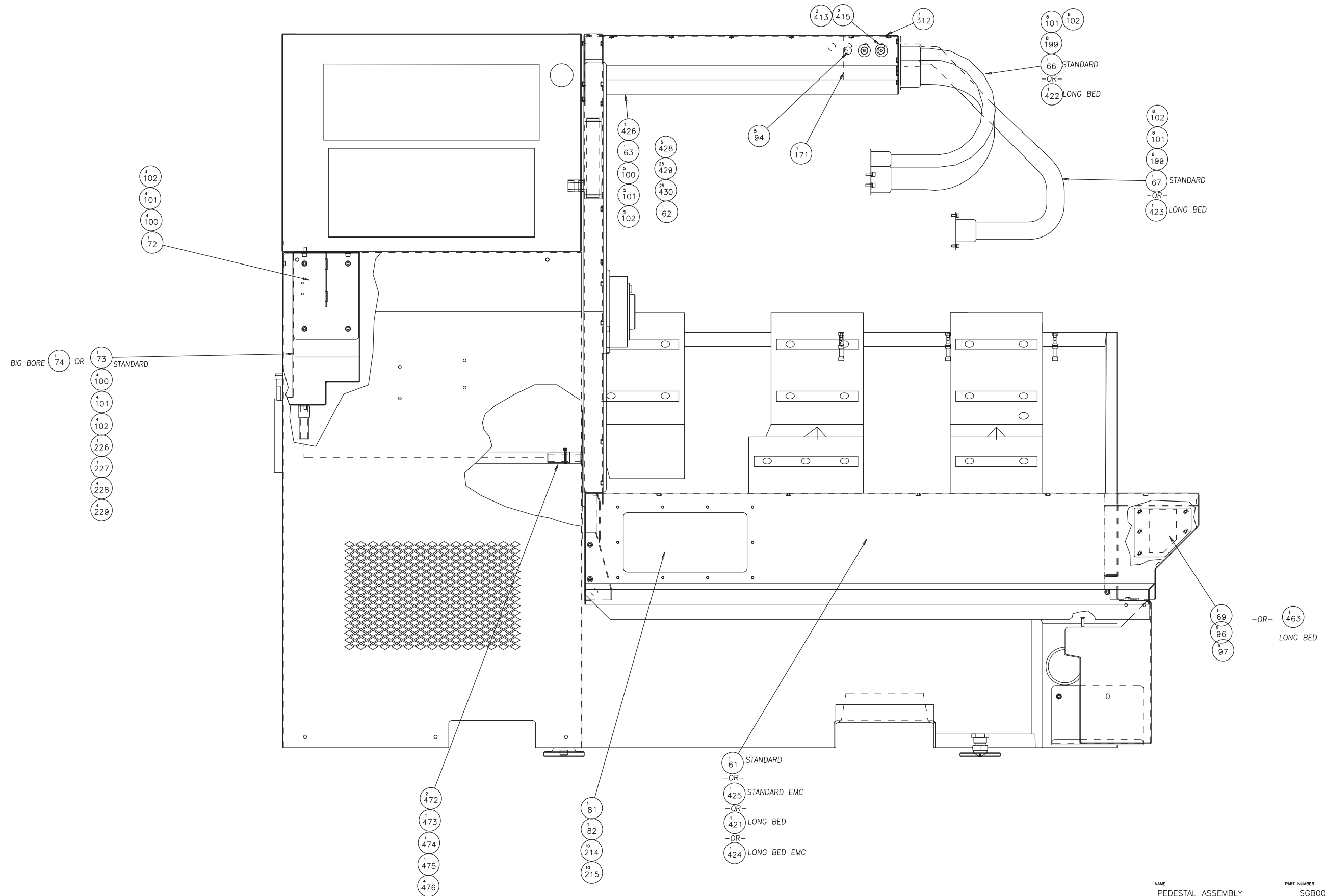
PART NUMBER
SGB0000130

Pedestal Assembly



NAME
PEDESTAL ASSEMBLY

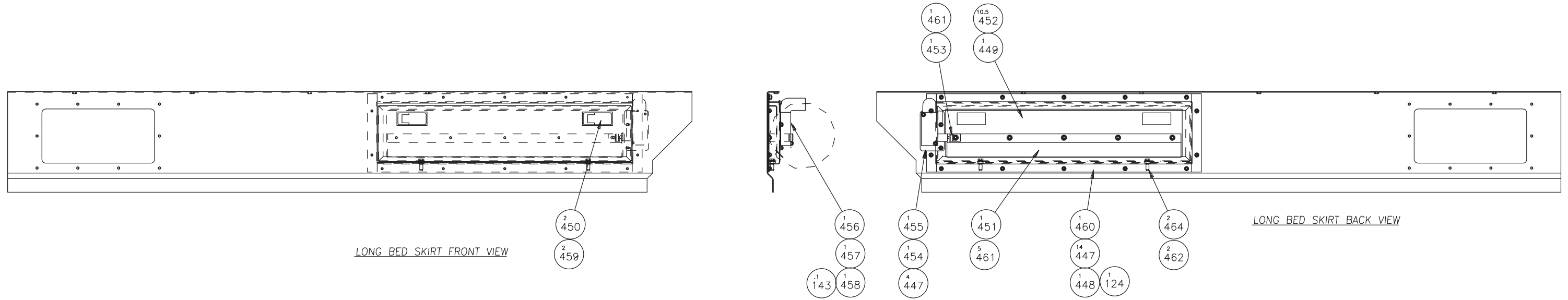
PART NUMBER
SGB0000130



NAME
PEDESTAL ASSEMBLY

PART NUMBER
SGB0000130

Pedestal Assembly



LONG BED SKIRT FRONT VIEW

LONG BED SKIRT BACK VIEW

NAME
PEDESTAL ASSEMBLY

PART NUMBER
SGB0000130

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
77	KL 0007876 A	1.000	WASHER FOR HOLE COVER
78	CS 000787601	1.000	COVER, HOLE
79	SG 000499055	1.000	PLATE, HOLE COVER BACKING
80	SG 001011591	1.000	COVER, HOLE
81	CSA001011587	1.000	COVER, FRONT SKIRT ASSEMBLY
82	CS 001011628	1.000	GASKET, FRONT SKIRT
83	SG 000317721	1.000	PULLEY, 8S HIGH SPEED
84	SG 000334608	1.000	BELT, 8S STANDARD
85	SG 000317722	1.000	PULLEY, 8S HIGH TORQUE
86	SG 000334610	1.000	BELT, 8S HIGH TORQUE
87	CS 0010389	1.000	SLEEVE, CLAMPING
88	CL 001038902	1.000	SLEEVE, CLAMPING
93	MS 0103817	14.000	SCREW, SOC,HD,CAP M8X1.25X16
94	CS 001033103	5.000	PLUG, SNAP IN
95	DB 00092079E	2.000	GROMMET
96	MW 0263510	15.000	WASHER, STAR EXT. M5 STEEL
97	MS 0303515	5.000	SCREW, BT. HD. M5X.8X 10MM
98	AO 0007710	1.000	HEX NIPPLES
99	MS 0155035	4.000	SCREW,HX HD,M20 X 2.5 X 130M
100	MS 0103616	24.000	SCREW,SOC,HD,CAP M6X1.0X12MM
101	MW 0193610	50.000	WASHER, LOCK DIN-7980 M6X1.0
102	MW 0103610	80.000	WASHER, FLAT M6 STEEL
103	MS 0104018	12.000	SCREW,SOC,HD,CAP,M10X1.5 X20
104	MW 0184010	12.000	WASHER, LOCK M10 X 1.5 STEEL
105	MW 0104010	8.000	WASHER, FLAT M10 X 1.5 STEEL
106	MS 0103820	2.000	SCREW, SOC HD CAP M8X1.25X30
107	MW 0193810	14.000	WASHER, LOCK DIN-7980 M8X1.2
108	MW 0103810	10.000	WASHER, FLAT M8 X 1.25 STEEL
109	3001088401	0.300	3M WEATRLRSTRIP ADHESIVE
110	5000189 3	4.000	GROMMET
111	MS 0303618	1.000	SCREW, M6-1 X 20
113	MS 0303514	8.000	SCREW, BT. HD. M5 X .8 X 8MM
114	MS 0104221	7.000	SCREW,SOC HD CAP M12X1.75X35
115	CL 000284001	10.000	WASHER, FLAT 7/16 HARDENED
116	MW 0194210	10.000	WASHER,LOCK,HICOLLAR M12 STL
117	MS 0103615	8.000	SCREW, SOC,HD,CAP M6X1.0X10M
118	MN 0145010	2.000	NUT, HEX 439 LOW M7 M20X2.5
119	MS 0105030	4.000	SCREW, SOC HD M20X2.5X80MM
120	MW 0105010 H	36.000	WASHER, FLAT M20 STEEL HARD
121	CL 000987301	1.000	DOWEL, PULL OUT
122	MN 0113810	2.000	NUT, HEX.934 REG. M8-1.25
123	MS 0303616	15.000	SCREW, BT. HD. M6X1.0 X 12MM
124	GE 0010884	6.000	SEALER
125	CS 001125916	1.000	FITTING, HOSE-MALE BSPT 3/8-
126	MS 0103818	2.000	SCREW, SOC,HD,CAP M8X1.25X20
127	MS 0104219	3.000	SCREW,SOC,HD,CAP M12X1.75X25
129	MS 0303619	2.000	SCREW, BT. HD. M6X1.0 X 25MM
130	SB 0010884 S	0.090	SEALANT - HYDRAULIC
136	DB 00092079U	1.000	GROMMET
137	DB 00092079A	2.000	BODY CONNECTOR
138	DB 0009207 W	2.000	WASHER CONNECTOR
139	DB 00092079B	2.000	NUT CONNECTOR COMPRESS
140	AH 0011508	2.000	NUT, LOCK
141	SO 0010226	2.000	GASKET ASSEMBLY 1/2 INCH
142	MS 0553815	3.000	SCREW,SOC.SET CUP M8X1.25X10
143	LT 01088455	0.400	SEALANT, PIPE
144	CS 0010994	0.400	GREASE
145	MS 0165029	4.000	SCREW, HEX HD. M20X2.5X75MM
146	MW 0185010	4.000	WASHER,LOCK M20X2.5 STEEL
147	MS 0104023	2.000	SCREW,SOC,HD,CAP,M10X1.5 45M
148	NC 0010884	1.800	LOCTITE ADHESIVE
149	TL 0006708	1.000	PIN DOWEL
150	MS 0103819	4.000	SCREW, SOC,HD,CAP M8X1.25X25
151	MW 0104010 H	8.000	WASHER, FLAT REGULAR HARDEN
152	MW 0194010	35.000	WASHER, LOCK
153	MS 0104019	20.000	SCREW,SOC,HD,CAP,M10X1.5 X25
154	SG 001119818	1.000	SEAL, CHIP PROTECTOR
155	TL 0006861	2.000	WASHER
156	AD 001133804	1.000	ELBOW, 90 DEG.

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SGA000299031	1.000	BRACKET, TRAMP OIL
2	CSB000199030	1.000	MOUNT, COOLANT PUMP
4	SG 001011619	1.000	GASKET, TOP FRONT HEADWALL
5	SGA001011620	1.000	GASKET, REAR
6	CS 001011618	1.000	GASKET, FRONT
7	SG 001011632	1.000	GASKET, HEADWALL SEAL
8	SG 000034301	1.000	FLANGE, HEADWALL SEAL
9	SG 0011063	1.000	BARRIER, HYDRAULIC
10	CL 000945401	2.000	SCREW, ADJUSTING
11	CL 000945502	2.000	FOOT ADJUSTMENT, BASE
12	SGA000997601	1.000	DEFLECTOR, VITON
13	CS 000399069	1.000	RETAINER
14	SG 0001990FL	1.000	FRAME, FORK LIFT SLOT ASSY.
20	CS 000317713	1.000	PULLEY,MOTOR 5000RPM LO-TORO
21	SG 000334606	1.000	BELT, 6S STANDARD
22	CS 000317712	1.000	PULLEY,MOTOR 3000RPM HI-TORO
23	SG 0003346	1.000	BELT, 6S HIGH TORQUE
24	SG 0001991	1.000	PLATE, MOTOR - BED / CS
25	CS 001132001	1.000	BLOCK, ADJUSTER-MOTOR PLATE
26	CS 001000001	1.000	SCREW, ADJUSTING
27	CS 0010000	2.000	SCREW, GUIDE-MOTORPLATE
28	CS 0011320	1.000	BLOCK, PLATE ADJUSTING
29	SG 0003914	1.000	SCREW, ADJUSTING
30	CS 0003914	1.000	SCREW, ADJUSTING
31	CS 000199104	1.000	PLATE, MOTOR ADJUSTMENT
32	SG 000199104	1.000	PLATE, MOTOR ADJUSTMENT
33	SG 000199016	2.000	LEFT FRONT SUPPORT ASSEMBLY
35	SG 000415802	5.000	BRACKET, POWER CASE MOUNTING
36	SG 001046201	1.000	SUPPORT, BRAKE
37	CSB0010462 A	1.000	BRAKE, SPINDLE
38	SG 001011641	2.000	GASKET, FAN HOUSING
39	SG 0010560	1.000	BRACKET, VIBR. ISOL. MOUNT
40	CL 0011779	1.000	MOUNT, RUBBER
41	SG 00110561M	1.000	LINK, VIBR. ISOL. COL CLSR
42	SG 0010190	1.000	STANDOFF, COLLET CLOSER
43	SGB0010445 A	1.000	FRAME WELD ASSY.
44	SGA002011518	1.000	COVER, HYDRAULIC ASSY
45	SG 001011568	1.000	COVER, SIDE - HYDRAULIC
46	SGA000299032	1.000	TANK, TRAMP OIL
47	CN 001048101	2.000	SPACER
48	CLC000199041	1.000	PLATE, MOUNTING
49	CS 0001799	2.000	SPACER, BEARING
50	SGA0010779 A	1.000	FILTER/REGULATOR
51	CS 0010565	0.100	END PLATE AND SEAL ASSEMBLY
52	HG 001011520	1.000	COVER, JUNCTION BOX
53	CLB000299053	1.000	FAN HOUSING COVER
54	CL 001203401	2.000	BUSHING
55	SG 0006418WA	1.000	Labyrinth EXTENSION WELD ASS
56	SG 001011640	1.000	GASKET, WAY COVER
57	SG 000641801 L	1.000	
58	SG 001011554	1.000	COVER, CONNECTOR REAR
59	CSB0001976	1.000	STRIP, DRIP
60	CS 000299046	1.000	RETAINER, DRIP STRIP
61	SGB000022116	1.000	SKIRT ASSY,COOLANT GUARD
62	SG 0000221WW	1.000	WIREWAY ASS'Y.COOL/GAURD SID
63	SG 001011633	1.000	GASKET, REAR GUARD INNER
64	SG 0010462	1.000	DISK, SPINDLE BRAKE
65	HG 0010541	1.000	BUMPER
66	SG 001162301	1.000	GORE TUBE, X AXIS
67	CSA001162302	1.000	CABLE CARRIER
68	KH 000304804	1.000	VALVE, 3 WAY LOCK OUT 1/4
69	SG 001011589	1.000	COVER, SKIRT END
70	SGA000499021	1.000	CLAMP
71	SGA000499020	1.000	SUPPORT, DRIP EDGE
72	SG 000499031	1.000	BRACKET, COOLANT CATCHER
73	SG 0002533WA	1.000	COOLANT CATCHER WELD ASSEMBL
74	SG 0002533BB	1.000	COOLANT CATCHER WELD ASSY
75	SG 000199089	1.000	BRACKET, COOLANT VALVE
76	KL 0007876	1.000	COVER, HOLE

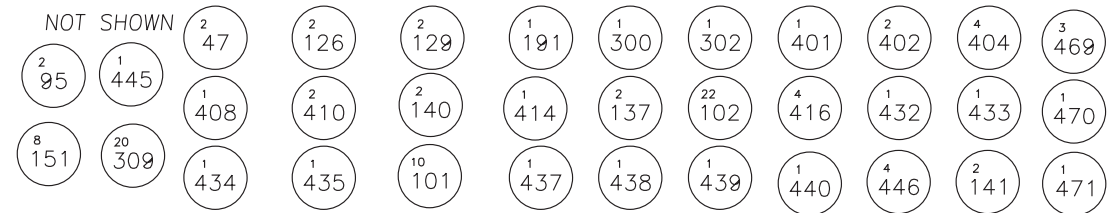
NAME
PEDESTAL ASSEMBLY

PART NUMBER
SGB0000130

Pedestal Assembly

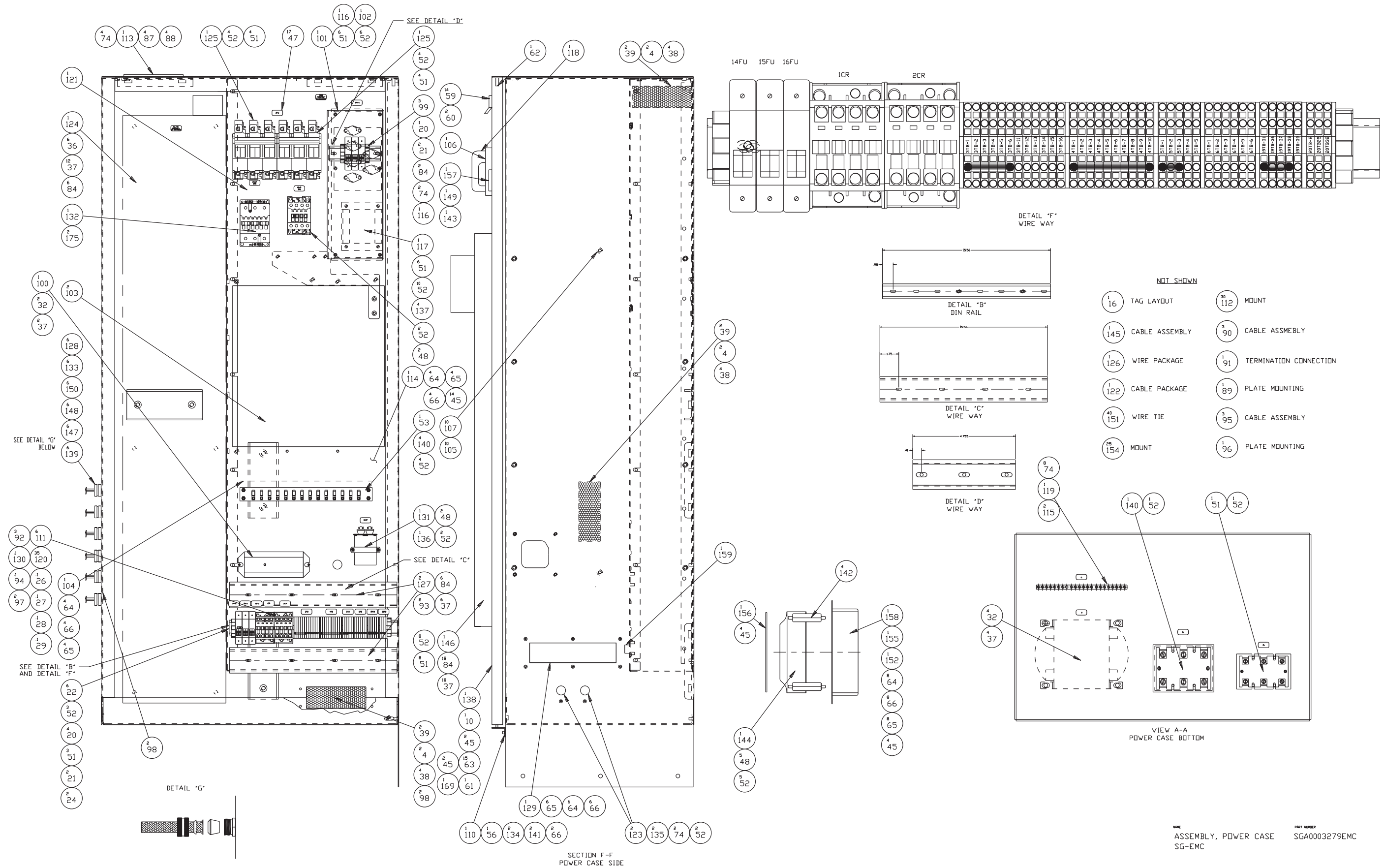
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
401	CLAD00365002	1.000	SWITCH, ROLLER
402	CL 0000334	2.000	NUT, BUSHING
404	CS 000770312	4.000	SWIVEL, 90 DEGREE
408	SG 0009175	1.000	STRIP, MARKER 41-50
410	AH 00101110	2.000	3/4" 90 DEG STREET ELBOW
413	52 001022661	2.000	GASKET
414	1250010226	1.000	GASKET APPLETON
415	31 000920738	2.000	CONNECTOR CABLE
416	CN 0008104	4.000	MOUNT TY-RAP
417	SG 000399036	1.000	BRACKET, TRAMP OIL
418	SGB000997603	1.000	DEFLECTOR, VITON
419	SG 001011555	1.000	COVER, CONNECTOR REAR
420	SG 000641807	1.000	LABYRINTH, EXT. Z-AXIS REAR
421	SG 000022124	1.000	SKIRT, COOLANT GUARD
422	SG 001162302	1.000	CABLE CARRIER, X AXIS
423	SG 0011623	1.000	CABLE CARRIER, Z AXIS
424	SG 0000221EM24	1.000	SKIRT, COOLANT GUARD
425	SG 0000221EM16	1.000	SKIRT ASSY,COOLANT GUARD
426	SG 0000221EMWW	1.000	WIREWAY ASS'Y.COOL/GAURD SID
427	SG 0000221EMHW	1.000	HEADWALL ASSEMBLY
428	MS 0303616SS	5.000	SCREW, BHD M6X1.0 X 12MM SST
429	MW 0183610SS	45.000	LOCKWASHER, M6 STAINLESS STE
430	MW 0103610SS	45.000	WASHER, FLAT M6 STAINLESS ST
431	MS 0303617SS	20.000	SCREW, BHD M6X1.0 X 16MM SS
432	SG 000299020	1.000	BRACKET, GORETUBE
433	SG 001011533	1.000	COVER, REAR X WAY
434	SG 001011534	1.000	COVER
435	SG 001011535	1.000	COVER
437	SG 001102702	1.000	LABYRINTH, Z AXIS REAR
438	SG 001142302	1.000	SUPPORT, HEADWALL
439	SGA000299045	1.000	LABYRINTH, (X-AXIS)
440	CL 0010224 N	1.000	NUT
444	SG 0006418LE	1.000	LABYRINTH EXT. LOWER-LONG BE
445	SG 000299032T1	2.000	BRACKET, LUBE TANK
446	MS 0103523	4.000	SHCS, M5X.8 X 45MM
447	MN 0283510	20.000	NUT, M5X0.8, SER HEX FLNG
448	SG 0010116DR	1.000	GASKET, DOOR RETAINER
449	SG 00101155A	1.000	COVER, SKIRT ACCESS
450	CN 0011738 A	2.000	LATCH SEAL ASSEMBLY
451	CL 000499096	1.000	DEFLECTOR, DOOR
452	CN 001119801	10.500	SEAL, DOOR
453	SG 0001990BTS	1.000	BRACKET, SWITCH TRIP
454	CL 000365001	1.000	SWITCH
455	SG 00019045C	1.000	PLATE, SKIRT COVER SWITCH
456	CL 000920701	1.000	FITTING, CONDUIT 90 DEG
457	CL 0010229	1.000	CONDUIT - LIQUIDTIGHT
458	53 001022532	1.000	CONNECTOR, 1/2 INCH STRAIGHT
459	CN 001011662	2.000	GASKET
460	SG 0001990SAR	1.000	RETAINER, SKIRT ACCESS COVER
461	MN 0283610	17.000	NUT, M6X1.0, SER HEX FLNG
462	R 0000331	2.000	NUT
463	SG 001021505	1.000	COVER, SIDE
464	SB 0011965	2.000	DOOR ALIGNMENT PIN
466	MS 0103821	2.000	SCREW, SOC.HD.CAP M8X1.25X35
467	HG 000199091	1.000	PLATE, AIRBLAST
468	HG 001011630	1.000	GASKET, AIRBLAST
469	SG 001011566	3.000	COVER, FUSE, 100A CLASS J
470	CL 001078608	1.000	TEE, BRANCH
471	CL 0009532	1.000	GROMMET
472	SB 000696602	2.000	CLAMP, HOSE
473	UB 0000330	1.000	NUT, LOCK FOR DIAL
474	OR 0001618	1.000	O RING
475	HGA001125908	1.000	COUPLING, COOLANT
476	CS 000696501	4.000	HOSE, 1" FLEXIBLE
477	SG 000499021LB	1.000	CLAMP, DRIPSTRIP, LB
478	SG 000499020LB	1.000	SUPPORT, DRIP EDGE, LB
479	MS 0573614	8.000	M6 X 1.0 X 8MM SOC SET FLAT

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
157	MS 0154019	8.000	SCREW, HEX HD.CAP M10X1.5X25
159	MS 0103823	2.000	SCREW,SOC.HD.CAP. M8X1.25X45
160	CS 0009995	2.000	SHIM
161	CS 0008612	2.000	SHIM, BRAKE
163	MS 0103517	9.000	SCREW, SOC. HD. CAP.M5X.8X16
164	MW 0103510	8.000	WASHER, FLAT M5 X .8 STEEL
165	MW 0193510	6.000	WASHER, LOCK DIN-7980 M5X.8
166	CP 0001041 B	2.000	NUT,5/16-18, HEX
167	MS 0496016	1.000	SCREW, SOC HD SHLD 06/M5X12M
168	NC 001088401	0.030	ADHESIVE LOCTITE #222
169	WA 0009191	6.000	WASHER
170	MS 0104020	5.000	SCREW,SOC.HD.CAP.M10X1.5 X30
171	RF 0011499	7.000	STRIP, NYLATRON WEAR
172	5 0001914	4.000	PLUG, PIPE
174	CL 001078607	1.000	TEE, STREET (PARKER)
176	AO 0010786	2.000	STREET ELBOW
179	HG 0007007	151.250	TUBING - 5/16 O.D.
180	MS 0103516	3.000	SCREW, SOC. HD. CAP.M5X.8X12
181	HG 001103201	43.000	TERMINAL BLOCK,BLUE
182	HG 0009175	0.100	MARKER, STRIP 1-10
183	HG 000917501	0.100	MARKER, STRIP 11-20
184	HG 000917502	0.100	MARKER, STRIP 21-30
185	HG 000917503	0.100	MARKER STRIP 31-40
186	HG 001103203	3.000	END PLATE
187	HG 001103204	2.000	END STOP
188	JLA0009976	2.000	GASKET
189	CK 9011032	0.300	RAIL, DIN BLANK
190	HG 001103205	2.500	JUMPER, 10 POLE
191	HG 001103202	1.000	TERMINAL BLOCK,GREEN/YELLOW
192	MS 0103816	4.000	SCREW, SOC.HD.CAP M8X1.25X12
194	MN 0283810	4.000	NUT, M8 X 1.25, SER.HEX FLNG
197	UA 0004034	2.000	NUT, HEX JAM
198	MS 0303617	6.000	SCREW, BT. HD. M6X1.0 X 16MM
199	MS 0103617	22.000	SCREW, SOC.HD.CAP M6X1.0X16M
200	MS 0103621	2.000	SCREW, SOC.HD.CAP M6X1.0X35M
201	DB 00092076A	1.000	BODY CONNECTOR
202	SB 0009623	2.000	CLAMP, CABLE
203	HG 0011259 5	1.000	1.25" STRAIGHT FITTING
204	SB 0009424	1.000	REDUCER FEMALE
205	AM 0011508	1.000	NUT, LOCK
206	HG 001022901	1.000	CONDUIT, 1-1/4"
207	OR 0001114	1.000	O RING
208	5P 0002843 B	1.000	NUT, HEX
209	CS 000943121	1.000	O RING
210	CS 0007876 B	1.000	WASHER, HEADWALL PLUG
211	MN 0113510	1.000	NUT, HEX
214	CS 0007707	10.000	NUT, CAP
215	MW 0263610	10.000	WASHER,STAR EXT. M6X1.0 STEE
216	CK 001033101	2.000	CAP PLUG 7/8
217	75 0010331 B	1.000	PLUG DOT
218	562 0010331B	2.000	PLUG
219	CS 0011801	1.000	BODY, JET METRIC
220	CL 000770203	1.000	ELBOW, 90 DEG MALE (SWIVEL)
221	HG 0008384	1.000	ADAPTER
222	CL 001180101	1.000	LEE JET
224	SG 000499056	1.000	RETAINER, GASKET
225	SG 001011691	1.000	GASKET, SKIRT RETAINER
226	SG 000399027	1.000	RETAINER, SPLASH (COOL CATCH
227	SG 0002533 G	1.000	GUARD, SPLASH (COOL CATCH)
228	MS 0303615	4.000	SCREW, BT. HD. M6X1.0X 10MM
229	MW 0183610	4.000	M6 REG. LOCKWASHER
300	SG 0003011	1.000	CABLE PACKAGE
302	CL 0010190	1.000	STANDOFF, COLLET CLOSER
306	SG 001011552	1.000	COVER, ACCESS
309	CT 0002068	23.000	WASHER
310	SG 000199006	1.000	BRACKET, FORKLIFT SLOT SIDE
312	CN 0011508	1.000	NUTS, GRIP
313	MS 0303518	4.000	SCREW, BT. HD. M5X.8,X 20MM
314	DVB0009623	4.000	CLAMP, PLASTIC

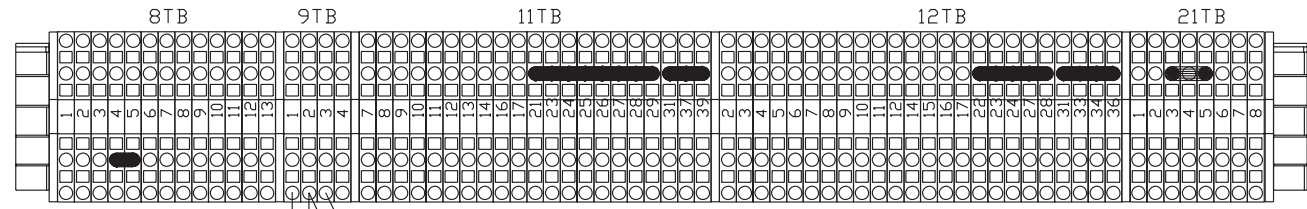


NAME
PEDESTAL ASSEMBLY

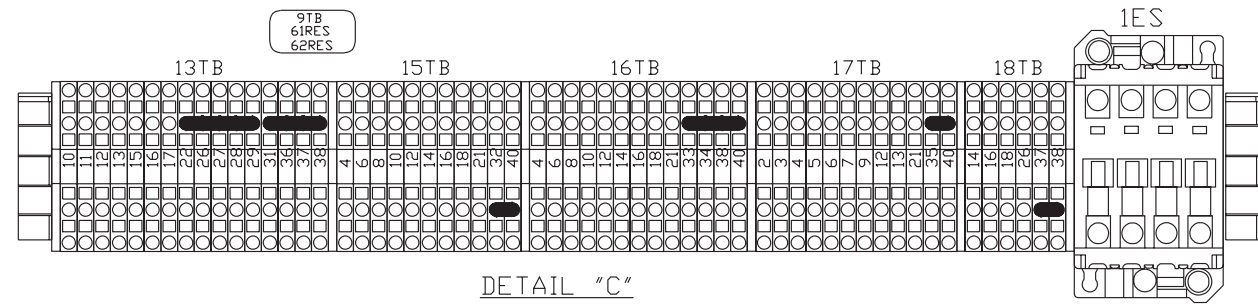
PART NUMBER
SGB0000130



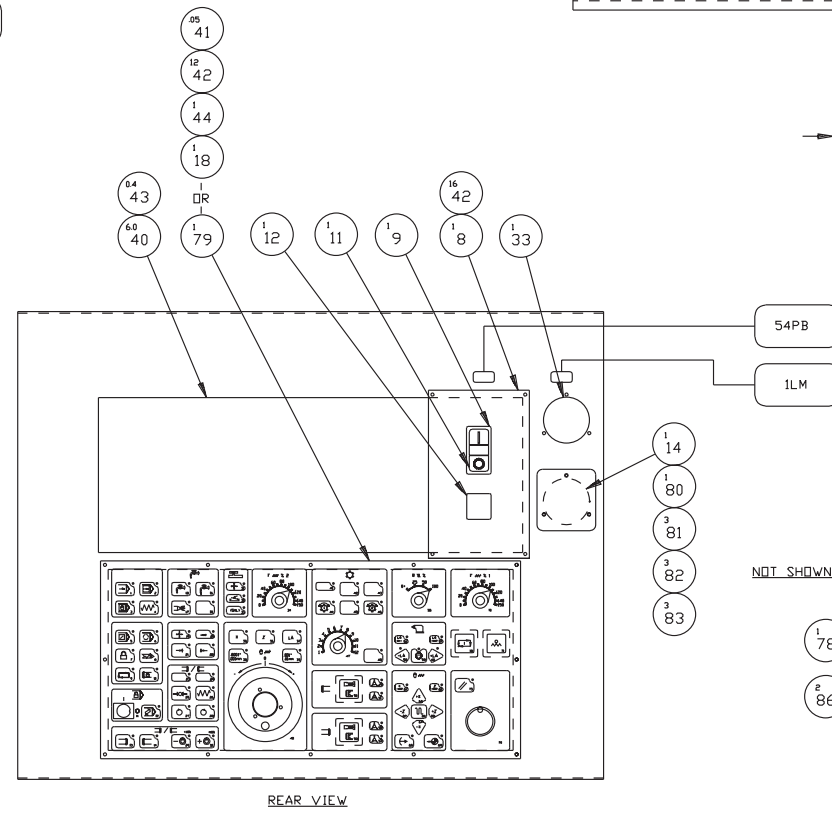
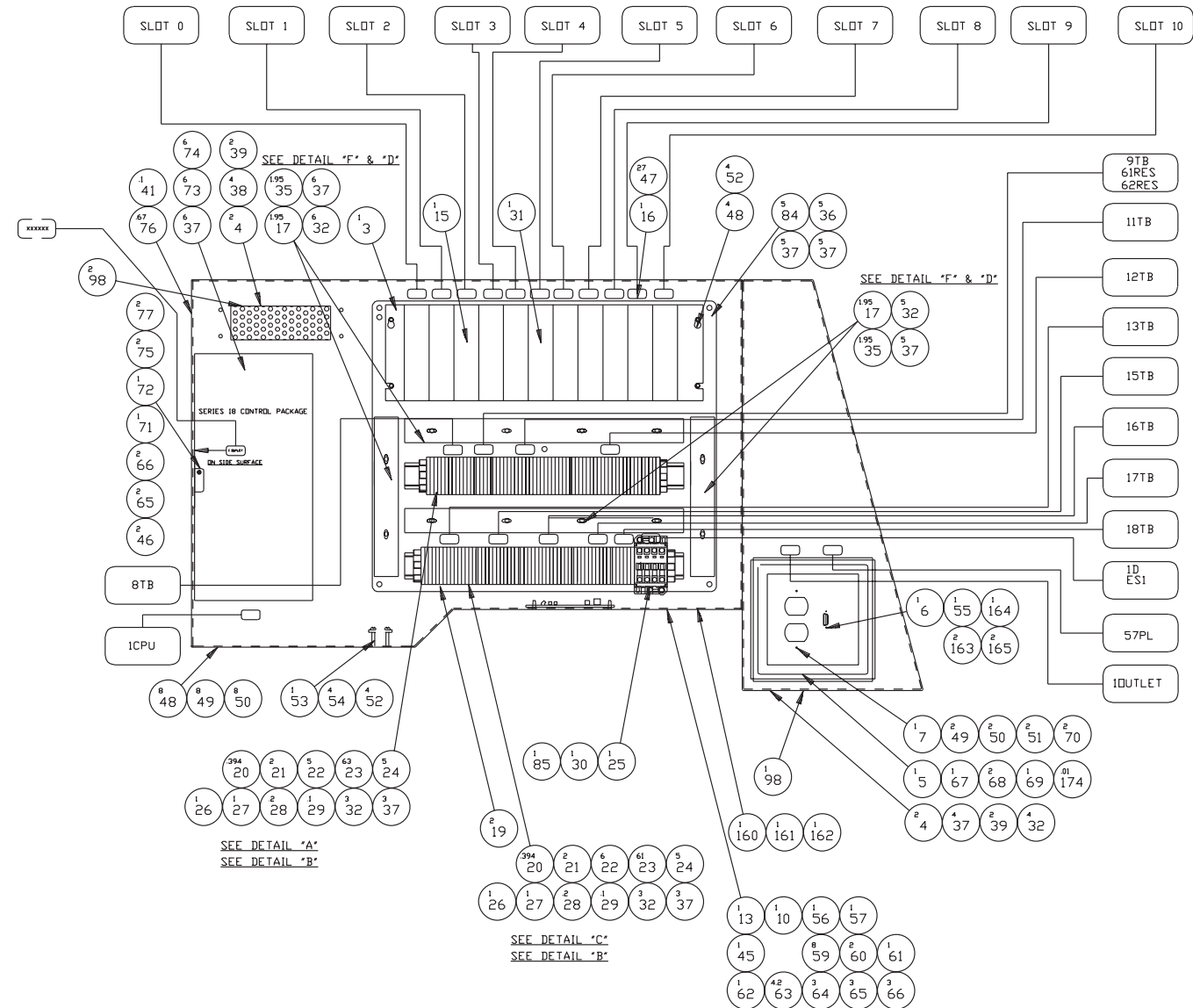
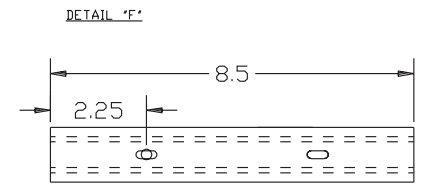
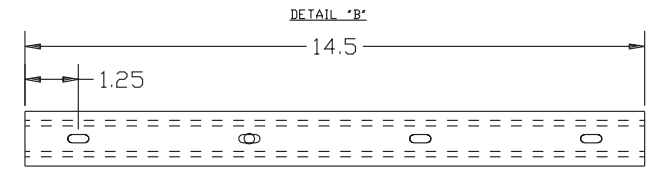
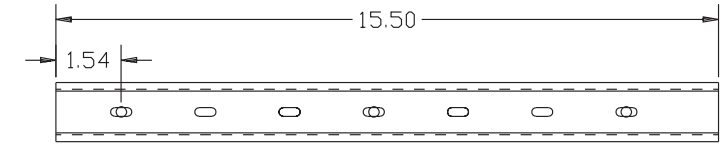
Power Case Assembly, CE Mark



DETAIL "A"



DETAIL "C"



REAR VIEW

NOT SHOWN ON DWG.

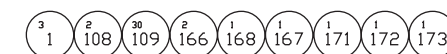
NAME: ASSEMBLY, POWER CASE
 PART NUMBER: SGA0003279EMC
 SG-EMC

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SG 0012980275	3.000	FERRITE CORE, .275"
3	SG 000499082	1.000	PANEL, I/O CASE COMP. MTG
4	HG 0011350	10.000	FILTER, FDAM
5	HG 000378004	1.000	COVER, RS232
6	SG 0012042	1.000	RECEPTACLE HOUSING FOR HIROS
7	HG 0010115RC	1.000	COVER, 115 VOLT RECEPTACLE
8	CL 000415841	1.000	PANEL, ON-OFF
9	LC 0003650GE11	1.000	SWITCH, CONTACT BLOCK, IND-1
10	SGA000415809	2.000	PLATE, DOOR HINGE (BOTTOM)
11	LC 0003650GE23	1.000	SWITCH, OPERATOR, ON/OFF
12	LC 0003650GE15	1.000	SWITCH, PLUG, SQUARE, SMALL
13	SG 0003780EMID	1.000	DOOR, I/O CASE - EMC
14	SG 0010116	1.000	GASKET, LOAD METER COVER
15	18 001179102	1.000	INPUT MODULE A1D16D
16	LD 0002854	2.000	TAG LAYOUT - CEMARK
17	JA 0010821	3.900	PANDUIT
18	SGA0011844 E	1.000	MTB PANEL - CEMARK
19	GN 001047201	2.000	RESISTOR
20	CK 9011032	2.188	RAIL, DIN BLANK
21	HG 001103204	8.000	END STOP
22	HG 001103203	17.000	END PLATE
23	HG 001103201	124.000	TERMINAL BLOCK,BLUE
24	HG 001103205	12.000	JUMPER, 10 PDLE
25	VFA0011298	1.000	DIODE, SUPPRESSOR
26	HG 0009175	2.100	MARKER, STRIP 1-10
27	HG 000917501	2.100	MARKER, STRIP 11-20
28	HG 000917502	0.500	MARKER, STRIP 21-30
29	HG 000917503	0.300	MARKER STRIP 31-40
30	LC 000812202	1.000	RELAY, 24VDC - 4ND
31	18 0011791CE	1.000	MODULE,DC OUTPUT,8 POINT-CEM
32	MS 0303514	27.000	SCREW, BT. HD. M5 X .8 X 8MM
33	SG 0011857CE S	1.000	METER, SPIN. LOAD - CEMARK
35	JA 001082101	3.900	COVER
36	HG 0010190	11.000	STANDOFF
37	MW 0263510	79.000	WASHER, STAR EXT. M5 STEEL
38	MN 0283510	16.000	NUT, M5X0.8, SER HEX FLNG
39	HG 000415813	10.000	BRACKET, FDAM
40	SG 001011603	6.000	GASKET, EMI
41	3 001088401	0.150	ADHESIVE
42	MS 0303315	28.000	SCREW, BUTTON HD. M3X5X10MM
43	SGA0010884 C	0.400	ADHESIVE, CONDUCTIVE
44	SG 0010116MP	1.000	GASKET, MEMBRANE PANEL
45	MN 0283610	27.000	NUT, M6X1.0, SER HEX FLNG
46	MS 0303615	2.000	SCREW, BT. HD. M6X1.0X 10MM
47	F3 000997701	44.000	LABEL, ID
48	MS 0303415	19.000	SCREW, BT. HD. M4X.7,X 10MM
49	MW 0103410	10.000	WASHER, FLAT M4 X .7 STEEL
50	MW 0183410	10.000	WASHER, LOCK M4 STEEL
51	MS 0303416	34.000	SCREW, BT. HD. M4X.7,X 12MM
52	MW 0263410	62.000	WASHER, EXT. STAR M4
53	SG 001082104	2.000	SUPPORT, CABLE BAR
54	MS 0303417	8.000	SCREW, BT. HD. M4X.7,X 16MM
55	CN 0012042 B	1.000	BLOCKS, LATCHING
56	SG 000415811	2.000	SPACER, NYLON (P.C. DOOR)
57	SG 0004158EM25	1.000	PLATE,DOOR (I/O CASE) BTM
59	VL 0011738	22.000	LATCH, DOOR, VISE ACTION
60	VL 001173801	4.000	DOOR PULL
61	SG 000415808	2.000	PLATE, DOOR HINGE (TOP)

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
62	SG 000179912	2.000	SPACER, PC & I/O CASE DOOR
63	SG 001011602	19.200	GASKET, EMI/RFI(6"LENGTHS)
64	MS 0303617	25.000	SCREW, BT. HD. M6X1.0 X 16MM
65	MW 0183610	27.000	M6 REG. LOCKWASHER
66	MW 0103610	29.000	WASHER, FLAT M6 STEEL
67	CN 0011062	1.000	KNOB
68	CC 0011947	2.000	STRIP, MAGNETIC
69	0300204	1.000	SCREW BT HD 8-32 X 1/4
70	MN 0113410	2.000	NUT, HEXAGON, 934 PLATED
71	CL 000415832	1.000	BRACKET, SWITCH,OTC & I/O CA
72	CL 001022407	1.000	SWITCH, INTERLOCK
73	MS 0303516	6.000	SCREW,BUT.HD.M5X.8X12MM
74	MW 0103510	22.000	WASHER, FLAT M5 X .8 STEEL
75	6 0008137	2.000	WASHER, LOCK
76	SB 001056504	0.670	U CHANNEL
77	0300103	2.000	SCREW BT HD 6-32 X 3/16
78	SG 0003279WPIID	1.000	WIRE PACKAGE-I/O CASE-CEMARK
79	SGA0011844RT E	1.000	MTB PANEL ASSY - CEMARK
80	SG 001011542	1.000	COVER, LOAD METER
81	MW 0193310	3.000	WASHER, LOCK DIN-7980 M3X.5
82	MW 0103310	3.000	WASHER, FLAT REGULAR M3X.5
83	MN 0113310	3.000	NUT, M3 X .5
84	MS 0303515	37.000	SCREW, BT. HD. M5X.8, X 10MM
85	VFA001036101	1.000	ADDER DECK
86	DV 0010546	2.000	NUT FOR GROUNDING POST
87	MW 0183510	4.000	WASHER, LOCK REG. M5 X .8 SC
88	MS 0303517	4.000	SCREW, BUTTON HD. M5X.8X16MM
89	SG 000190402	1.000	PLATE, PSM-15 & DRV MTG (8S)
90	SG 0003011JX1	3.000	CABLE ASSY - JX1A-JX1B
91	SG 0012042TCA	1.000	TERMINATING CONNECTING ASSY.
92	SG 001001702	3.000	HOLDER, FUSE 1P/W IND.CC FUS
93	HG 001082108	2.000	COVER, FOR DUCT (HG 10821)
94	VL 0009175	0.100	STRIP, MARKER 51-60
95	SG 0003011CX2	3.000	CABLE ASSY - CX2A-CX2B
96	SG 000190401	1.000	DRIVE MTG. PLATE (6S/NDT LB)
97	CK8001036101	2.000	CONTACTOR, NON-REVERSING
98	SB 000953201	7.000	GRDMMET
99	SG 001001703	3.000	HOLDER, FUSE 1P/W/D IND.CC F
100	CL 000023901	1.000	BALLAST
101	SG 001011544	1.000	COVER, POWER SUPPLY - CEMARK
102	CN 000953203	1.000	GRDMMET,
103	HG 0010546	2.000	NUT, 1/4-20 BRASS HEX
104	SG 000399009	1.000	SPACER, SHIELD BAR (CEMARK)
105	MS 0303817	10.000	SCREW
106	CL 0010646	1.000	METER,RUN TIME
107	MW 0103810 H	10.000	WASHER, FLAT M8 X 1.25 STEEL
108	SG 00112980402	2.000	FERRITE CORE, .402"
109	SG 0010473	30.000	TUBING, 3/8" TINNED
110	SG 0004158EM10	1.000	BRACKET, DOOR HINGE MTG (EM
111	HG 001103202	6.000	TERMINAL BLOCK,GREEN/YELLOW
112	CC 0008104	30.000	MDUNT, TY RAP (ADHESIVE)
113	HG 000415811	1.000	COVER, PC MAIN POWER DROP
114	SG 000415828LB	1.000	PLENUM, SG PWRCASE (CE-MARK)
115	MN 0113510	2.000	NUT, HEX
116	CN 0009532	2.000	GRDMMET
117	18 0008776PS	1.000	POWER SUPPLY, 24VDC, 7.2 AMP
118	SG 0010359 H	1.000	HANDLE, DISCONNECT OPERATING
119	SB 0011888	1.000	KIT, GROUND BAR
120	HG 0011032	35.000	TERMINAL BLOCK, GRAY

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
121	TT 001129804	1.000	SUPPRESSOR
122	SG 000301196C	1.000	CABLE PACKAGE, PWR CASE-CE96
123	CK 001033101	2.000	CAP PLUG 7/8
124	SGB0004158CE A	1.000	PLATE, PWRCASE ASSY.-CEMARK
125	SG 001001704	2.000	HOLDER, FUSE 3P 125A
126	SG 0003279WPC	1.000	WIRE PACKAGE PWR CASE - CEMA
127	HG 0010821	2.000	DUCT
128	DB 00092079A	6.000	BODY CONNECTOR
129	HG 001011552	1.000	COVER, LOWER (POWER CASE)
130	SG 0009175	0.100	STRIP, MARKER 41-50
131	CL 0010471	1.000	CAPACITOR, HEADSTK COOL FAN
132	18A001001601	1.000	CONTACTOR, 75A
133	DB 00092079B	6.000	NUT CONNECTOR COMPRESS
134	MS 0103618	2.000	SCREW,SOCHD,CAP M6X1.0X20MM
135	MS 0303414	2.000	BUTTON HEAD SCREW
136	CL 0010471 B	1.000	BRACKET, CAPACITOR
137	SG 001019001	4.000	STANDOFF
138	SGA0003780EMPC	1.000	DOOR, POWERCASE - EMC
139	50 0010226	6.000	GASKET ASSEMBLY 1/2 INCH
140	MS 0303410	5.000	SCREW, BT. HD. M4X.7,X 3MM
141	MW 0193610	2.000	WASHER, LOCK DIN-7980 M6X1.0
142	SG 001019002	4.000	STANDOFF, PLENUM SUPPORT
143	LC 0003650GE32	1.000	USE "LC0003650GE43" INSTEAD
144	CL 001185003	1.000	FAN, HEADSTOCK COOLING
145	SG 0003011CX1	1.000	CABLE ASSY - CX1A-CX1B
146	HG 0011555	1.000	HEAT EXCHANGER
147	AH 0011508	6.000	NUT, LOCK
148	DB 0009207 W	6.000	WASHER CONNECTOR
149	LC 0003650GE02	1.000	SWITCH, CONTACT BLOCK, INC
150	DB 00092079U	6.000	GRDMMET
151	CK 0008104	40.000	TIE, WIRE
152	SG 0011350	1.000	FILTER
154	LM 0008104	25.000	TY-RAP
155	SG 000415819	1.000	GUARD, PLENUM FAN FINGER
156	SGA000415814	1.000	SUPPORT, PLENUM FAN
157	LC 0003650GE03	1.000	SWITCH, 2 POSITION, ROUND
158	SG 000415812	1.000	DUCT, PLENUM FAN
159	SG 0009532	1.000	GRDMMET
160	VL 000962302	1.000	CLAMP, CABLE 0.125"
161	MS 0303414SS	1.000	SCREW, BHD M4 X .7 X 8-SSTL
162	MW 0263410SS	1.000	WASHER, EXT. STAR M4-SSTL
163	VL 000362301	2.000	WASHER, EXT TOOTH-#4 STAINLE
164	VL 000962303	1.000	CLAMP, CABLE 0.078"
165	0170004	2.000	SCREW, BIND. HD-SS 4-40X1/4
166	CN 0008104	2.000	MDUNT TY-RAP
167	CN 000920702	1.000	CRIMP CONNECTOR
168	CS 0012099	1.000	BEZEL, PANEL
169	HG 0001990DFB	1.000	BRACKET, FILTER BOX DOOR
170	LC 0003650GE02	1.000	SWITCH, CONTACT BLOCK, INC
171	LD 0003404	1.000	INSTRUCTION, GE. FANUC TAG
172	DB 00092079E	1.000	GRDMMET
173	SG 001204204	1.000	RECEPT.SOLDER TYPE SPEC 15 P
174	NC 001088402	0.010	LOCTITE #222
175	MS 0303517	1.000	SCREW, BUTTON HD. M5X8X16MM

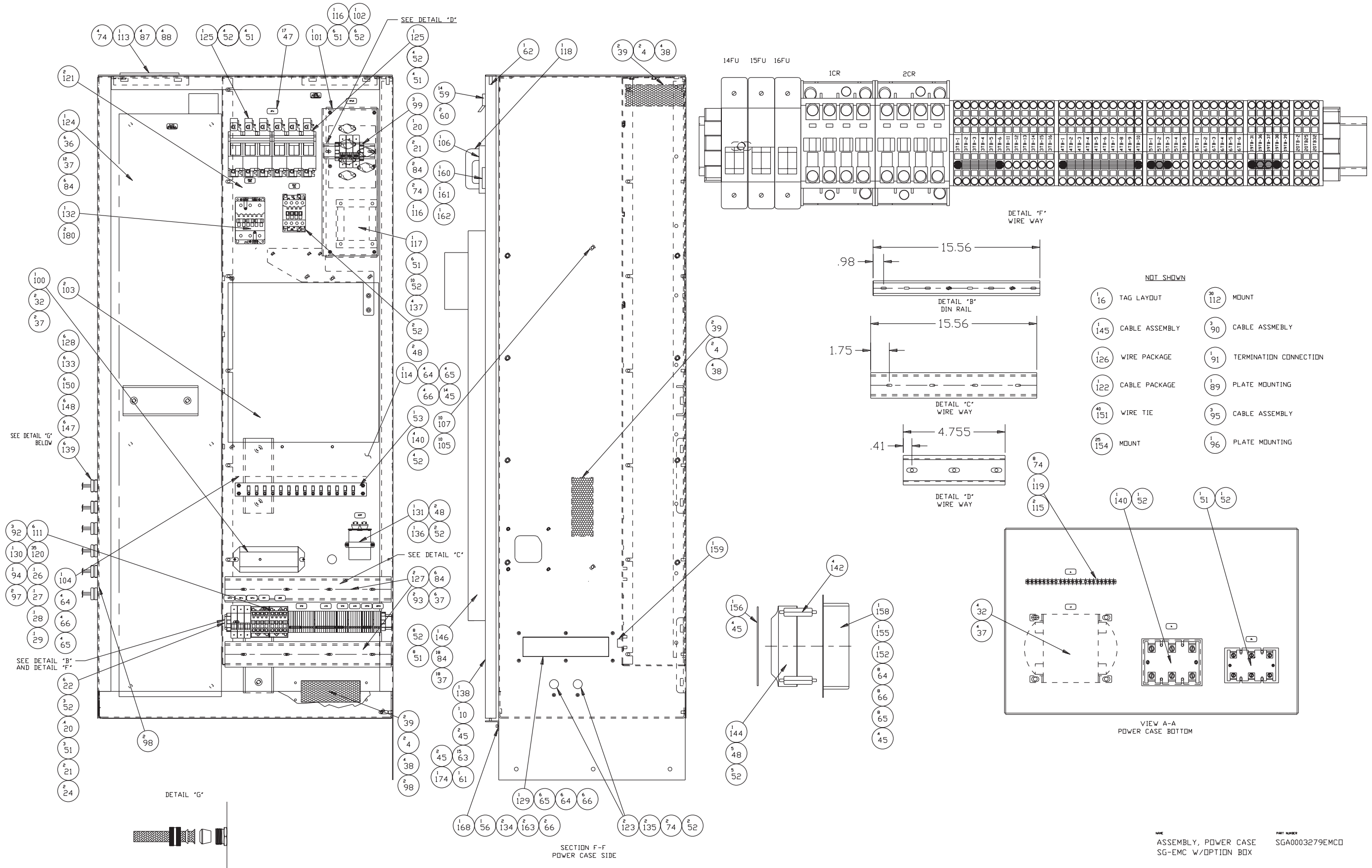
NOT SHOWN

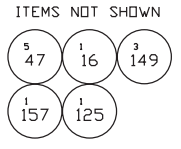
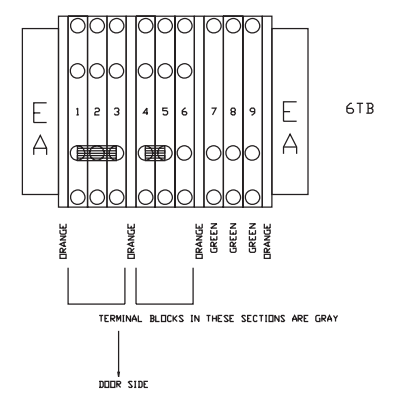
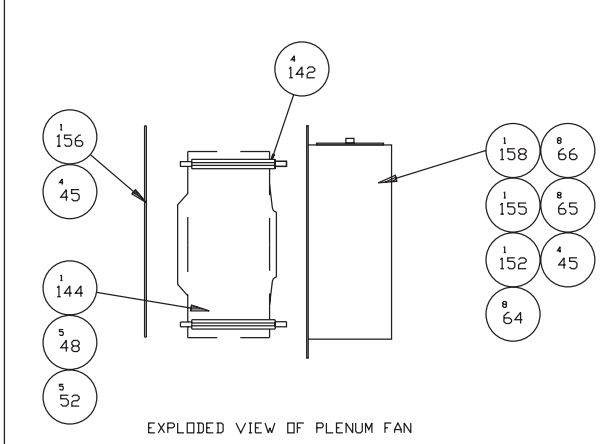
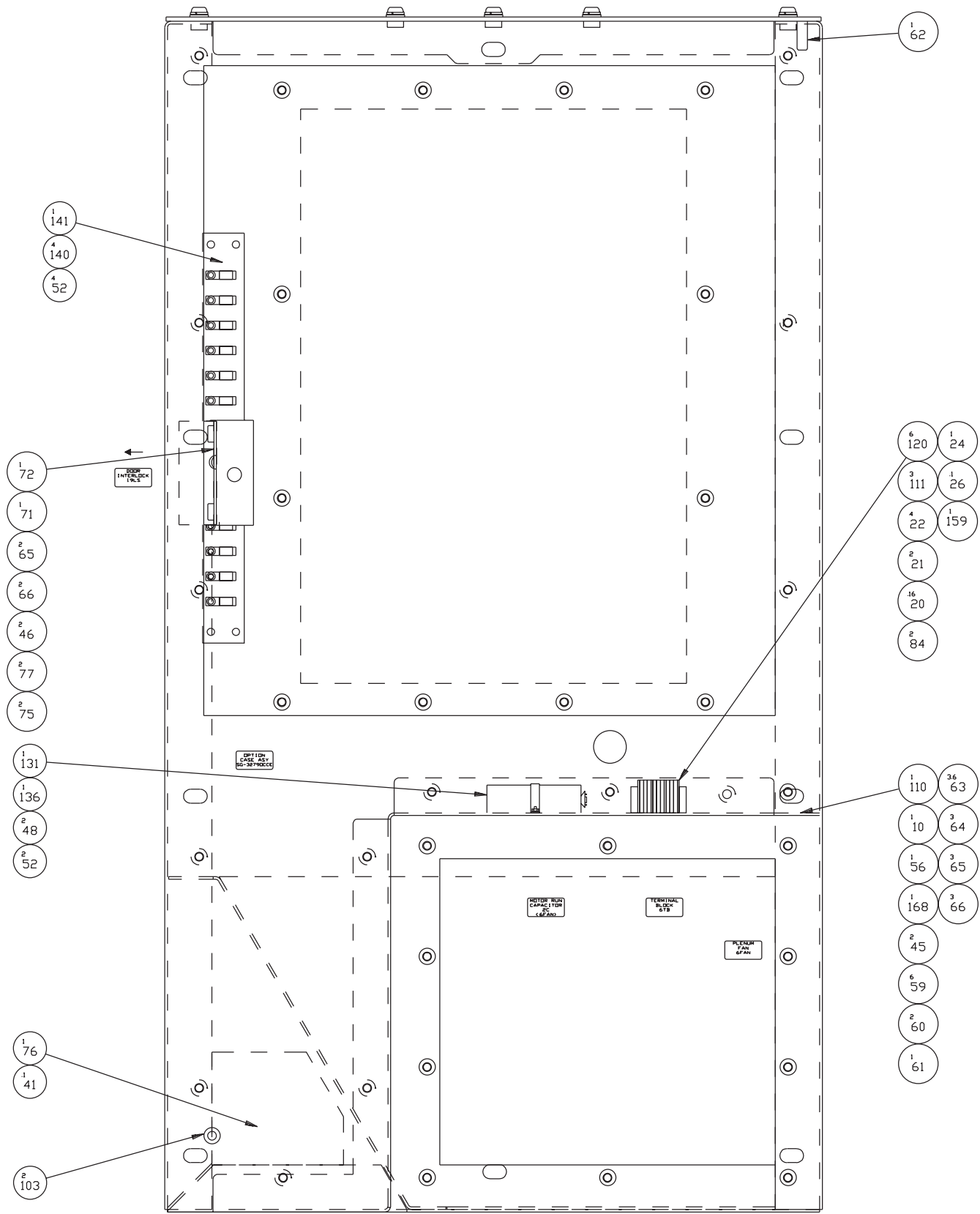


NAME ASSEMBLY, POWER CASE
SG-EMC

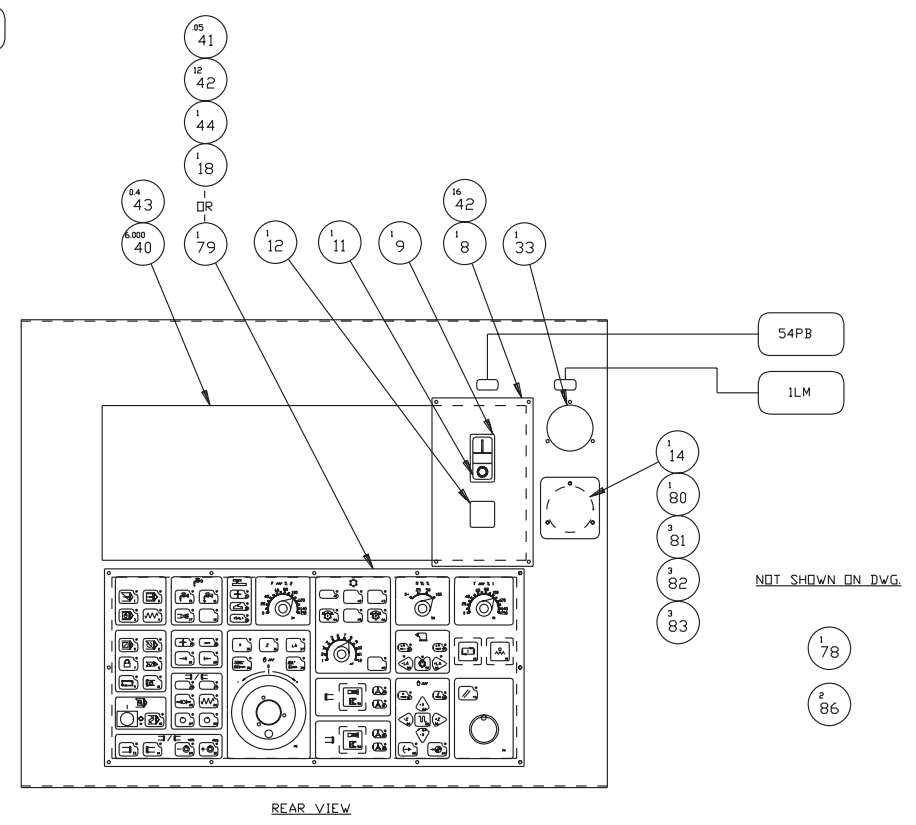
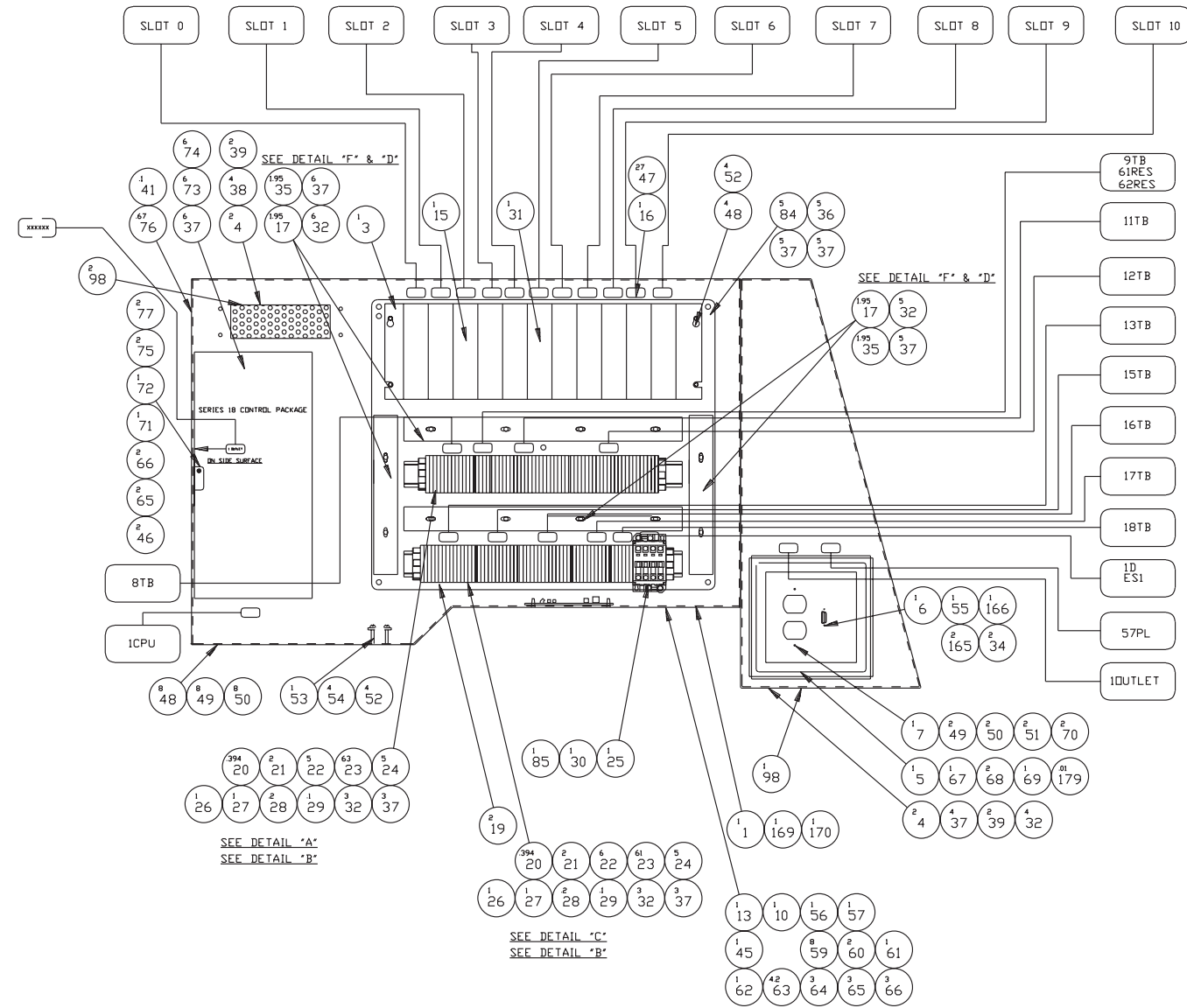
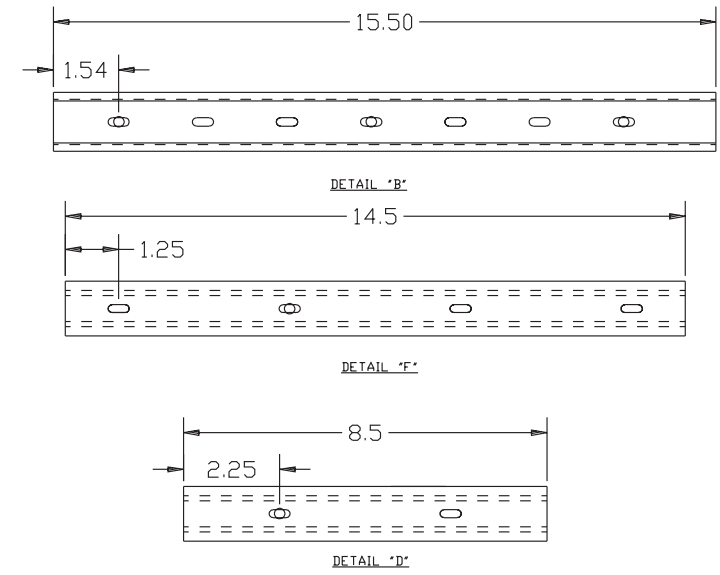
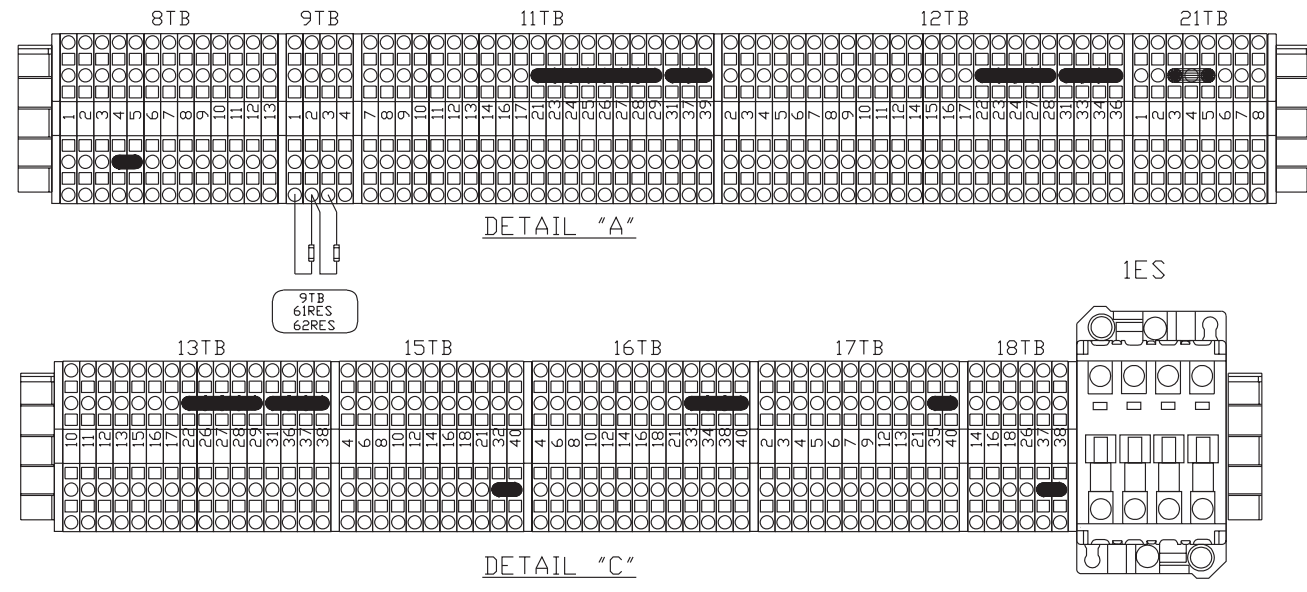
PART NUMBER SGA0003279EMC

Power Case Assembly with Option Case, CE Mark





Power Case Assembly with Option Case, CE Mark



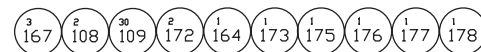
MFG ASSEMBLY, POWER CASE SG-EMC W/OPTION BOX

PART NUMBER SGA0003279EMCD

Power Case Assembly with Option Case, CE Mark

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	VL 000962302	1.000	CLAMP, CABLE 0.125"
3	SG 000499082	1.000	PANEL, I/O CASE COMP. MTG
4	HG 0011350	10.000	FILTER, FOAM
5	HG 000378004	1.000	COVER, RS232
6	SG 0012042	1.000	RECEPTACLE HOUSING FOR HIROS
7	HG 001204201	1.000	RECEPTACLE, 115VAC, 3 WIRE
8	CL 000415841	1.000	PANEL, ON-OFF
9	MC 0010019	1.000	BLOCK, CONTACT IND-INC FIRST
10	SGA000415809	3.000	PLATE, DOOR HINGE (BOTTOM)
11	MC 001022405	1.000	SWITCH, OPERATOR ON/OFF
12	MC 000787601	1.000	PLUG, SQUARE - SMALL HOLE
13	SG 0003780EMID	1.000	DOOR, I/O CASE - EMC
14	SG 0010116	1.000	GASKET, LOAD METER COVER
15	18 001179102	1.000	INPUT MODULE AID16D
16	LD 0002854	3.000	TAG LAYOUT - CEMARK
17	JA 0010821	3.900	PANDUIT
18	SG 0011844 E	1.000	MTB PANEL-EMC (NOT RT)
19	GN 001047201	2.000	RESISTOR
20	CK 9011032	2.348	RAIL, DIN BLANK
21	HG 001103204	10.000	END STOP
22	HG 001103203	21.000	END PLATE
23	HG 001103201	124.000	TERMINAL BLOCK,BLUE
24	HG 001103205	13.000	JUMPER, 10 PDLE
25	VFA0011298	1.000	DIODE, SUPPRESSOR
26	HG 0009175	2.200	MARKER, STRIP 11-10
27	HG 000917501	2.100	MARKER, STRIP 11-20
28	HG 000917502	0.500	MARKER, STRIP 21-30
29	HG 000917503	0.300	MARKER STRIP 31-40
30	LC 000812202	1.000	RELAY, 24VDC - 4ND
31	18 0011791CE	1.000	MODULE,DC OUTPUT,8 POINT-CEM
32	MS 0303514	27.000	SCREW, BT. HD. M5 X .8 X 8MM
33	SG 0011857CE S	1.000	METER, SPIN. LOAD - CEMARK
34	0170006	2.000	SCREW, BINDING HD-SS 4-40X3/8
35	JA 001082101	3.900	COVER
36	HG 0010190	11.000	STANDOFF
37	MW 0263510	79.000	WASHER, STAR EXT. M5 STEEL
38	MN 0283510	16.000	NUT, M5X0.8, SER HEX FLNG
39	HG 000415813	10.000	BRACKET, FOAM
40	SG 001011603	6.000	GASKET, EMI
41	3 001088401	0.250	ADHESIVE
42	MS 0303315	28.000	SCREW, BUTTON HD. M3X.5X10MM
43	SGA0010884 C	0.400	ADHESIVE, CONDUCTIVE
44	SG 0010116MP	1.000	GASKET, MEMBRANE PANEL
45	MN 0283610	37.000	NUT, M6X1.0, SER HEX FLNG
46	MS 0303615	4.000	SCREW, BT. HD. M6X1.0X 10MM
47	F3 000997701	49.000	LABEL, ID
48	MS 0303415	28.000	SCREW, BT. HD. M4X.7,X 10MM
49	MW 0103410	10.000	WASHER, FLAT M4 X .7 STEEL
50	MW 0183410	10.000	WASHER, LOCK M4 STEEL
51	MS 0303416	34.000	SCREW, BT. HD. M4X.7,X 12MM
52	MW 0263410	75.000	WASHER, EXT. STAR M4
53	SG 001082104	3.000	SUPPORT, CABLE BAR
54	MS 0303417	8.000	SCREW, BT. HD. M4X.7,X 16MM
55	CN 0012042 B	1.000	BLOCKS, LATCHING
56	SG 000415811	3.000	SPACER, NYLON (P.C. DOOR)
57	SG 0004158EM25	1.000	PLATE,DOOR (I/O CASE) BTM
59	VL 0011738	28.000	LATCH, DOOR, VISE ACTION
60	VL 001173801	6.000	DOOR PULL

NOT SHOWN

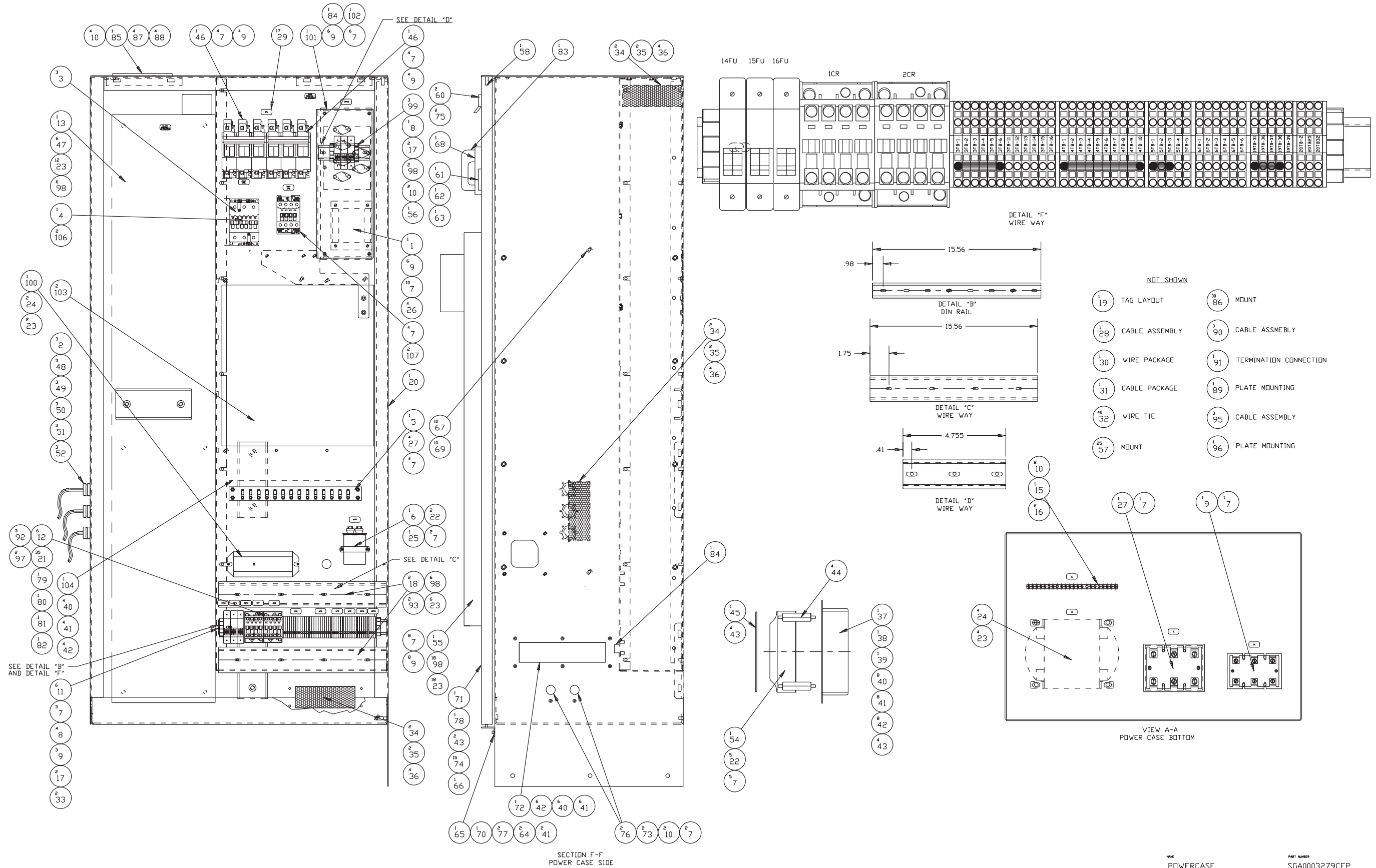


ITEM	PART NUMBER	QUANTITY	DESCRIPTION
61	SG 000415808	3.000	PLATE, DOOR HINGE (TOP)
62	SG 000179912	3.000	SPACER, PC & I/O CASE DOOR
63	SG 001011602	22.800	GASKET, EMI/RFI(6"LENGTHS)
64	MS 0303617	36.000	SCREW, BT. HD. M6X1.0 X 16MM
65	MW 0183610	40.000	M6 REG. LOCKWASHER
66	MW 0103610	42.000	WASHER, FLAT M6 STEEL
67	CN 0011062	1.000	KNOB
68	CC 0011947	2.000	STRIP, MAGNETIC
69	0300204	1.000	SCREW BT HD 8-32 X 1/4
70	MN 0113410	2.000	NUT, HEXAGON, 934 PLATED
71	CL 000415832	2.000	BRACKET, SWITCH,OTC & I/O CA
72	CL 001022407	2.000	SWITCH, INTERLOCK
73	MS 0303516	6.000	SCREW,BUT.HD.M5X.8X12MM
74	MW 0103510	22.000	WASHER, FLAT M5 X .8 STEEL
75	6 0008137	4.000	WASHER, LOCK
76	SB 001056504	1.670	U CHANNEL
77	0300103	4.000	SCREW BT HD 6-32 X 3/16
78	SG 0003279WPID	1.000	WIRE PACKAGE-I/O CASE-CEMARK
79	SG 0011844RT E	1.000	MTB PANEL-EMC-RAM TURRET
80	SG 001011542	1.000	COVER, LOAD METER
81	MW 0193310	3.000	WASHER, LOCK DIN-7980 M3X.5
82	MW 0103310	3.000	WASHER, FLAT REGULAR M3X.5
83	MN 0113310	3.000	NUT, M3 X .5
84	MS 0303515	39.000	SCREW, BT. HD. M5X.8,X 10MM
85	VFA001036101	1.000	ADDER DECK
86	DV 0010546	2.000	NUT FOR GROUNDING POST
87	MW 0183510	4.000	WASHER, LOCK REG. M5 X .8 SC
88	MS 0303517	4.000	SCREW, BUTTON HD. M5X.8X16MM
89	SG 000190402	1.000	PLATE, PSM-15 & DRV MTG (BS)
90	SG 0003011JX1	3.000	CABLE ASSY - JX1A-JX1B
91	SG 0012042TCA	1.000	TERMINATING CONNECTING ASSY.
92	SG 001001702	3.000	HOLDER, FUSE 1P/W IND.CC FUS
93	HG 001082108	2.000	COVER, FOR DUCT (HG 10821)
94	VL 0009175	0.100	STRIP, MARKER 51-60
95	SG 0003011CX2	3.000	CABLE ASSY - CX2A-CX2B
96	SG 000190401	1.000	DRIVE MTG. PLATE (6S/NOT LB)
97	CKB001036101	2.000	CONTACTOR, NON-REVERSING
98	SB 000953201	7.000	GROMMET
99	SG 001001703	3.000	HOLDER, FUSE 1P/W/D IND.CC F
100	CL 000023901	1.000	BALLAST
101	SG 001011544	1.000	COVER, POWER SUPPLY - CEMARK
102	CN 000953203	1.000	GROMMET,
103	HG 0010546	4.000	NUT, 1/4-20 BRASS HEX
104	SG 000399009	1.000	SPACER, SHIELD BAR (CEMARK)
105	MS 0303817	10.000	SCREW
106	CL 0010646	1.000	METER,RUN TIME
107	MW 0103810 H	10.000	WASHER, FLAT M8 X 1.25 STEEL
108	SG 00112980402	2.000	FERRITE CORE, .402"
109	SG 0010473	30.000	TUBING, 3/8" TINNED
110	SG 0003780EMDC	1.000	DOOR, OPTION CASE - EMC
111	HG 001103202	9.000	TERMINAL BLOCK,GREEN/YELLOW
112	CC 0008104	30.000	Mount, TY RAP (ADHESIVE)
113	HG 000415811	1.000	COVER, PC MAIN POWER DRDP
114	SG 000415828LB	1.000	PLENUM, SG PWRCASE (CE-MARK)
115	MN 0113510	2.000	NUT, HEX
116	CN 0009532	2.000	GROMMET
117	18 0008776PS	1.000	POWER SUPPLY, 24VDC, 7.2 AMP
118	SG 0010359 H	1.000	HANDLE, DISCONNECT OPERATING
119	SB 0011888	1.000	KIT, GROUND BAR

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
120	HG 0011032	41.000	TERMINAL BLOCK, GRAY
121	TT 001129804	2.000	SUPPRESSOR
122	SG 000301196C	1.000	CABLE PACKAGE, PWR CASE-CE96
123	CK 001033101	2.000	CAP PLUG 7/8
124	SGB0004158CE A	1.000	PLATE, PWRCASE ASSY-CEMARK
125	SG 001001704	3.000	HOLDER, FUSE 3P 125A
126	SG 0003279WPC	1.000	WIRE PACKAGE PWR CASE - CEMA
127	HG 0010821	2.000	DUCT
128	DB 00092079A	6.000	BODY CONNECTOR
129	HG 001011552	1.000	COVER, LOWER (POWER CASE)
130	SG 0009175	0.100	STRIP, MARKER 41-50
131	CL 0010471	2.000	CAPACITOR, HEADSTK COOL FAN
132	18A001001601	1.000	CONTACTOR, 75A
133	DB 00092079B	6.000	NUT CONNECTOR COMPRESS
134	MS 0103618	2.000	SCREW,SDC.HD.CAP M6X1.0X20MM
135	MS 0303414	2.000	BUTTON HEAD SCREW
136	CL 0010471 B	2.000	BRACKET, CAPACITOR
137	SG 001019001	4.000	STANDOFF
138	SGA0003780EMPC	1.000	DOOR, POWERCASE - EMC
139	SO 0010226	6.000	GASKET ASSEMBLY 1/2 INCH
140	MS 0303410	9.000	SCREW, BT. HD. M4X.7,X 3MM
142	SG 001019002	4.000	STANDOFF, PLENUM SUPPORT
144	CL 001185003	2.000	FAN, HEADSTOCK COOLING
145	SG 0003011CX1	1.000	CABLE ASSY - CX1A-CX1B
146	HG 0011555	1.000	HEAT EXCHANGER
147	AH 0011508	6.000	NUT, LOCK
148	DB 0009207 W	6.000	WASHER CONNECTOR
149	SG 000961014	3.000	FUSE, GI, 22 X 58 MM, 32A
150	DB 00092079U	6.000	GROMMET
151	CK 0008104	40.000	TIE, WIRE
152	SG 0011350	2.000	FILTER
154	LM 0008104	25.000	TY-RAP
155	SG 000415819	2.000	GUARD, PLENUM FAN FINGER
156	SGA000415814	2.000	SUPPORT, PLENUM FAN
157	18A0010016	1.000	CONTACTOR, 30A
158	SG 000415812	2.000	DUCT, PLENUM FAN
159	SG 0009532	2.000	GROMMET
160	HGA000283407	1.000	SWITCH, OPERATOR
161	HGA001001901	1.000	CONTACT BLOCK
162	CLA001037201	1.000	USE LCA0003650GE43
163	MW 0193610	2.000	WASHER, LOCK DIN-7980 M6X1.0
164	CN 000920702	1.000	CRIMP CONNECTOR
165	VL 000362301	2.000	WASHER, EXT TOOTH-M4 STAINLE
166	VL 000962303	1.000	CLAMP, CABLE 0.078"
167	SG 00112980275	3.000	FERRITE CORE, .275"
168	SG 0004158EM10	2.000	BRACKET, DOOR HINGE MTG (EM
169	MS 0303414SS	1.000	SCREW, BHD M4 X .7 X 8-SSTL
170	MW 0263410SS	1.000	WASHER, EXT. STAR M4-SSTL
172	CN 0008104	2.000	Mount TY-RAP
173	CS 0012099	1.000	BEZEL, PANEL
174	HG 0001990DFB	1.000	BRACKET, FILTER BDX DOOR
175	SG 001036619	1.000	TAG, SERIAL NUMBER
176	LD 0003404	1.000	INSTRUCTION, G.E. FANUC TAG
177	DB 00092079E	1.000	GROMMET
178	SG 001204204	1.000	RECEPTACLE TYPE SPEC 15 P
179	NC 001088402	0.010	LOC TITE #222
180	MS 0303517SA	2.000	SCREW, BH M5X.8X16 ASSY

NAME ASSEMBLY, POWER CASE SG-EMC W/OPTION BDX PART NUMBER SGA0003279EMCO

Power Case Assembly, Non-CE Mark



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	18 0008776PS	1.000	POWER SUPPLY, 24VDC, 7.2 AMP
2	DB 00092079A	3.000	BODY CONNECTOR
3	TT 001129804	3.000	SUPPRESSOR
4	18A001001601	1.000	CONTACTOR, 75A
5	SG 001082104	1.000	SUPPORT, CABLE BAR
6	CL 0010471	1.000	CAPACITOR, HEADSTK COOL FAN
7	MW 0263410	54.000	WASHER, EXT. STAR M4
8	CK 9011032	1.400	RAIL, DIN BLANK
9	MS 0303416	32.000	SCREW, BT. HD. M4X.7,X 12MM
10	MW 0103510	16.000	WASHER, FLAT M5 X .8 STEEL
11	HG 001103203	6.000	END PLATE
12	HG 001103202	6.000	TERMINAL BLOCK, GREEN/YELLOW
13	SGB0004158CE A	1.000	PLATE, PWRCASE ASSY.-CEMARK
14	CN 0009532	2.000	GRDMMET
15	SB 0011888	1.000	KIT, GROUND BAR
16	MN 0113510	2.000	NUT, HEX
17	HG 001103204	4.000	END STOP
18	HG 0010821	2.000	DUCT
19	LD 0002854	1.000	TAG LAYOUT - CEMARK
20	SG 0004158PC A	1.000	POWERCASE - 18TB-NDT EMC
21	HG 0011032	35.000	TERMINAL BLOCK, GRAY
22	MS 0303415	7.000	SCREW, BT. HD. M4X.7,X 10MM
23	MW 0263510	42.000	WASHER, STAR EXT. M5 STEEL
24	MS 0303514	6.000	SCREW, BT. HD. M5 X .8 X 8MM
25	CL 0010471 B	1.000	BRACKET, CAPACITOR
26	SG 001019001	4.000	STANDOFF
27	MS 0303410	5.000	SCREW, BT. HD. M4X.7,X 3MM
28	SG 0003011CX1	1.000	CABLE ASSY - CX1A-CX1B
29	F3 000997701	17.000	LABEL, ID
30	SG 0003279WPC	1.000	WIRE PACKAGE PWR CASE - CEMA
31	SG 0003011CEC	1.000	CABLE PACKAGE, PWR CASE-CEMA
32	CK 0008104	40.000	TIE, WIRE
33	HG 001103205	2.000	JUMPER, 10 POLE
34	HG 000415813	6.000	BRACKET, FDAM
35	HG 0011350	6.000	FILTER, FDAM
36	MN 0283510	12.000	NUT, M5X0.8, SER HEX FLNG
37	SG 000415812	1.000	DUCT, PLENUM FAN
38	SG 000415819	1.000	GUARD, PLENUM FAN FINGER
39	SG 0011350	1.000	FILTER
40	MS 0303617	18.000	SCREW, BT. HD. M6X1.0 X 16MM
41	MW 0103610	20.000	WASHER, FLAT M6 STEEL
42	MW 0183610	18.000	M6 REG. LOCKWASHER
43	MN 0283610	10.000	NUT, M6X1.0, SER HEX FLNG
44	SG 001019002	4.000	STANDOFF, PLENUM SUPPORT
45	SGA000415814	1.000	SUPPORT, PLENUM FAN
46	SG 001001704	2.000	HOLDER, FUSE 3P 125A
47	HG 0010190	6.000	STANDOFF
48	DB 00092079B	3.000	NUT CONNECTOR COMPRESS
49	DB 00092079U	3.000	GRDMMET
50	DB 0009207 W	3.000	WASHER CONNECTOR
51	AH 0011508	3.000	NUT, LOCK
52	50 0010226	3.000	GASKET ASSEMBLY 1/2 INCH
54	CL 001185003	1.000	FAN, HEADSTOCK COOLING
55	HG 0011555	1.000	HEAT EXCHANGER
57	LM 0008104	25.000	TY-RAP
58	SG 000179912	1.000	SPACER, PC & I/O CASE DOOR
60	VL 0011738	2.000	LATCH, DOOR, VISE ACTION
61	HGA000283407	1.000	SWITCH, OPERATOR
62	HGA001001902	1.000	CONTACT, BLOCK

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
63	CLA001037201	1.000	USE LCA0003650GE43
64	MW 0193610	2.000	WASHER, LOCK DIN-7980 M6X1.0
65	SG 000415810	1.000	BRACKET, DOOR HINGE MTG.
66	SG 000415808	1.000	PLATE, DOOR HINGE (TOP)
67	MW 0103810 H	10.000	WASHER, FLAT M8 X 1.25 STEEL
68	CL 0010646	1.000	METER, RUN TIME
69	MS 0303817	10.000	SCREW
70	SG 000415811	1.000	SPACER, NYLON (P.C. DOOR)
71	SG 0003780PC	1.000	DOOR, POWERCASE
72	HG 001011552	1.000	COVER, LOWER (POWER CASE)
73	MS 0303414	2.000	BUTTON HEAD SCREW
74	CN 001119801	15.000	SEAL, DOOR
75	VL 001173801	2.000	DOOR PULL
76	CK 001033101	2.000	CAP PLUG 7/8
77	MS 0103618	2.000	SCREW, SOC. HD. CAP M6X1.0X20MM
78	SGA000415809	1.000	PLATE, DOOR HINGE (BOTTOM)
79	HG 0009175	0.100	MARKER, STRIP 1-10
80	HG 000917501	0.100	MARKER, STRIP 11-20
81	HG 000917502	0.100	MARKER, STRIP 21-30
82	HG 000917503	0.100	MARKER STRIP 31-40
83	SG 0010359 H	1.000	HANDLE, DISCONNECT OPERATING
84	SG 0009532	1.000	GRDMMET
85	HG 000415811	1.000	COVER, PC MAIN POWER DROP
86	CC 0008104	30.000	MDUNT, TY RAP (ADHESIVE)
87	MW 0183510	4.000	WASHER, LOCK REG. M5 X .8 SC
88	MS 0303517	4.000	SCREW, BUTTON HD. M5X.8X16MM
89	SG 000190402	1.000	PLATE, PSM-15 & DRV MTG (8S)
90	SG 0003011JX1	3.000	CABLE ASSY - JX1A-JX1B
91	SG 0012042TCA	1.000	TERMINATING CONNECTING ASSY.
92	SG 001001702	3.000	HOLDER, FUSE 1P/W IND. CC FUS
93	HG 001082108	2.000	COVER, FDR DUCT (HG 10821)
95	SG 0003011CX2	3.000	CABLE ASSY - CX2A-CX2B
96	SG 000190401	1.000	DRIVE MTG. PLATE (6S/NDT LB)
97	CKB001036101	2.000	CONTACTOR, NON-REVERSING
98	MS 0303515	32.000	SCREW, BT. HD. M5X.8,X 10MM
99	SG 001001703	3.000	HOLDER, FUSE 1P/W/D IND. CC F
100	CL 000023901	1.000	BALLAST
101	SG 001011544	1.000	COVER, POWER SUPPLY - CEMARK
102	CN 000953203	1.000	GRDMMET,
103	HG 0010546	2.000	NUT, 1/4-20 BRASS HEX
104	SG 000399009	1.000	SPACER, SHIELD BAR (CEMARK)
106	MS 0303517SA	2.000	SCREW, BH M5X.8X16 ASSY
107	MS 0303417	2.000	SCREW, BT. HD. M4X.7,X 16MM
108	CN 0008104	2.000	MDUNT TY-RAP

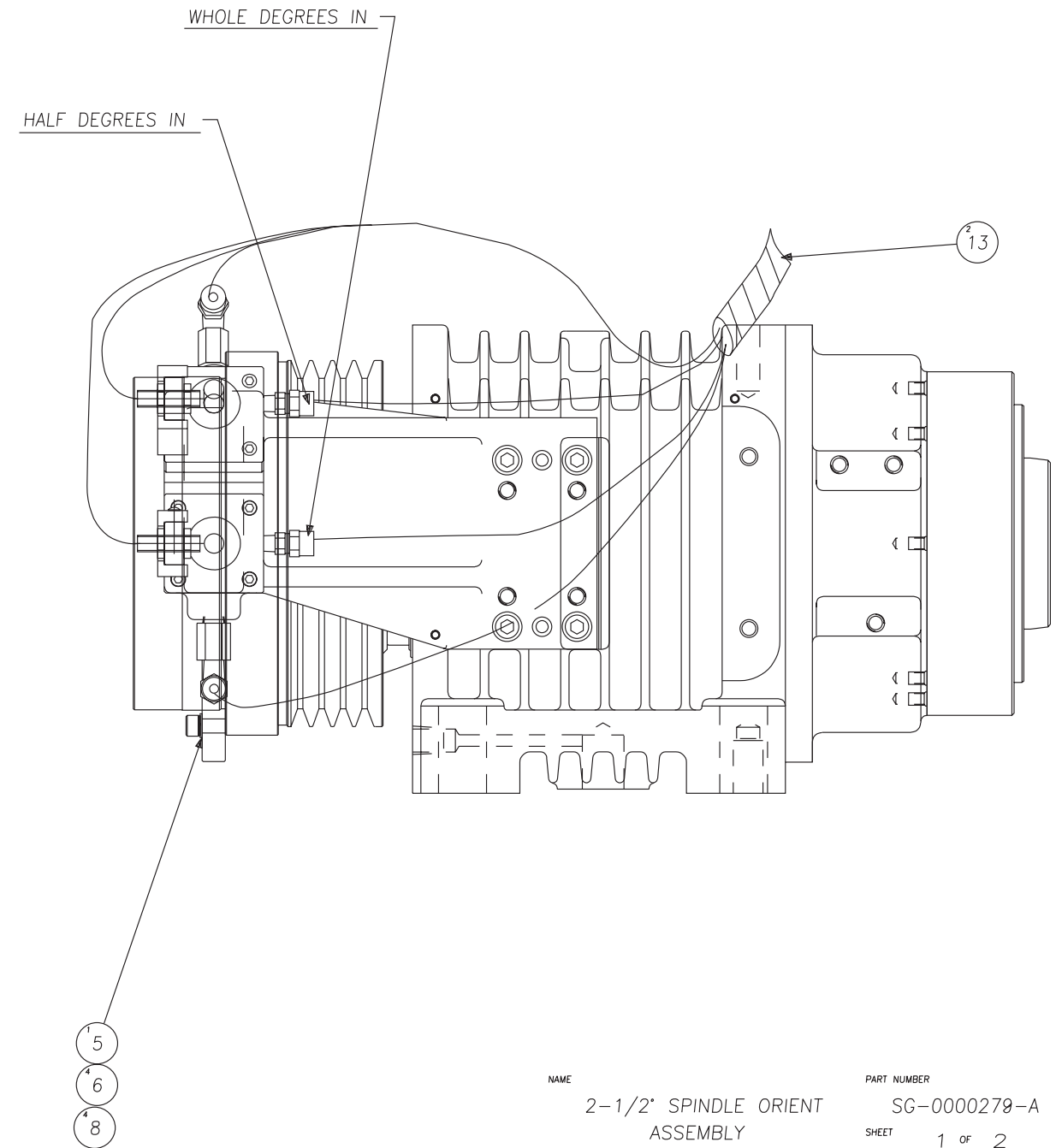
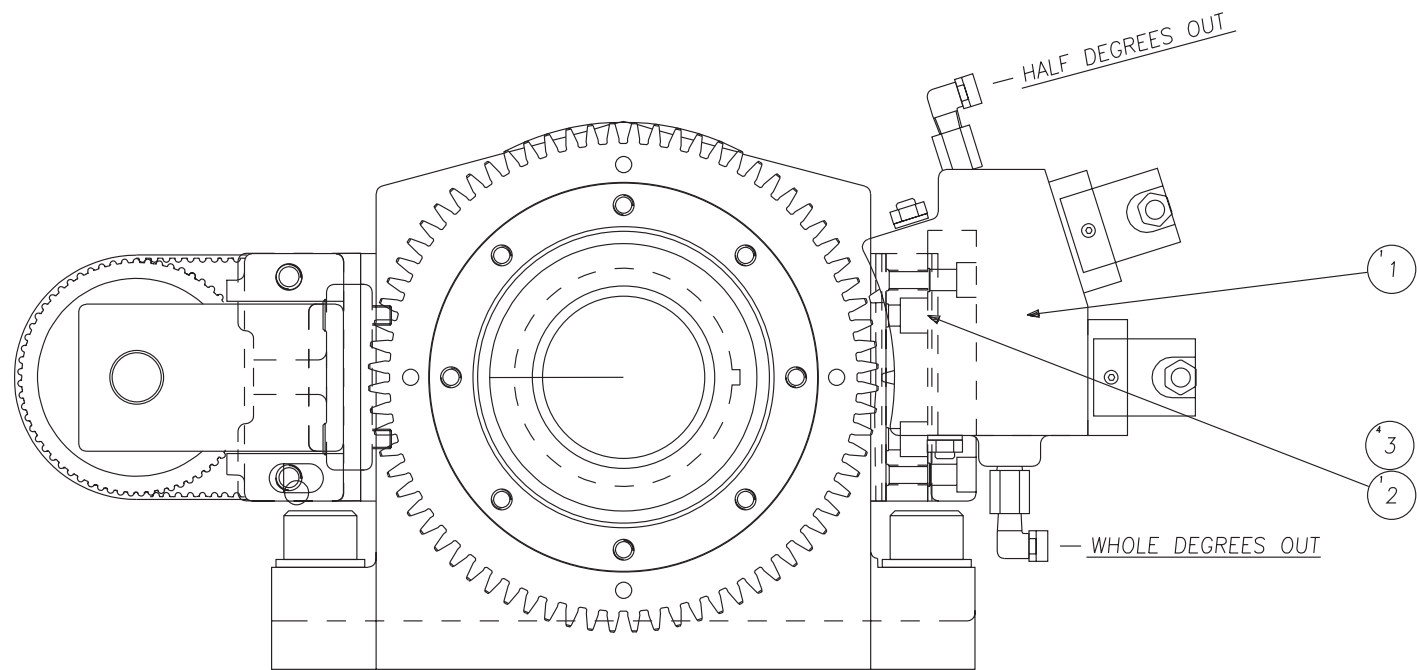
NOT SHOWN



NAME
POWERCASE
ASSEMBLY, SG-CE MARK

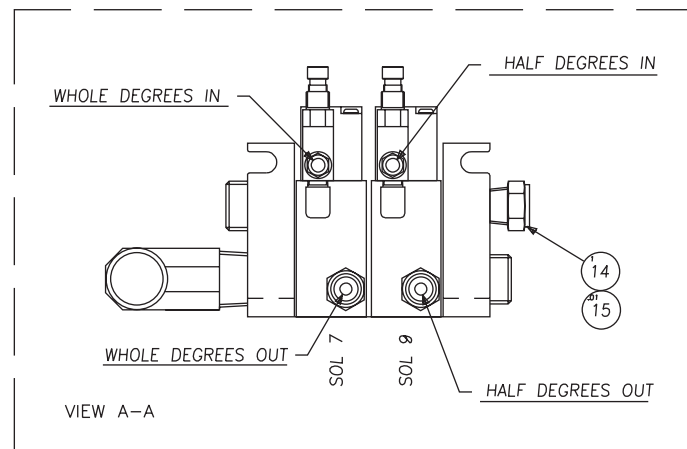
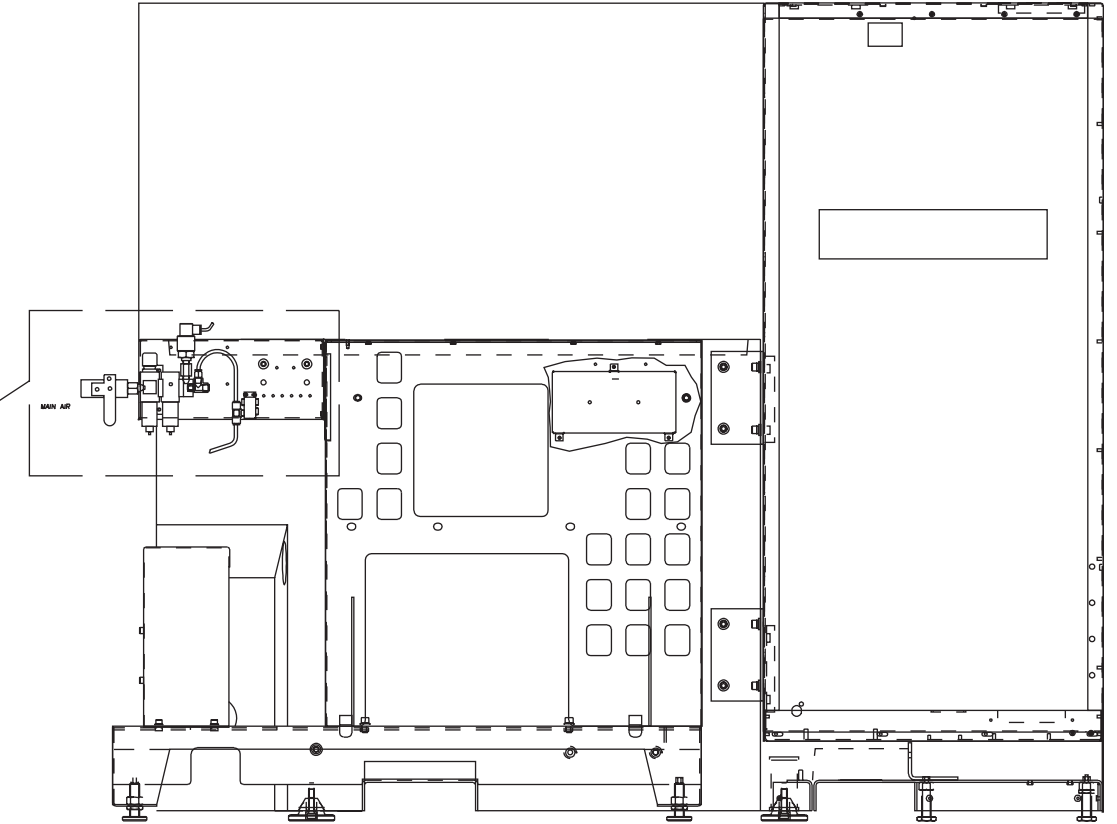
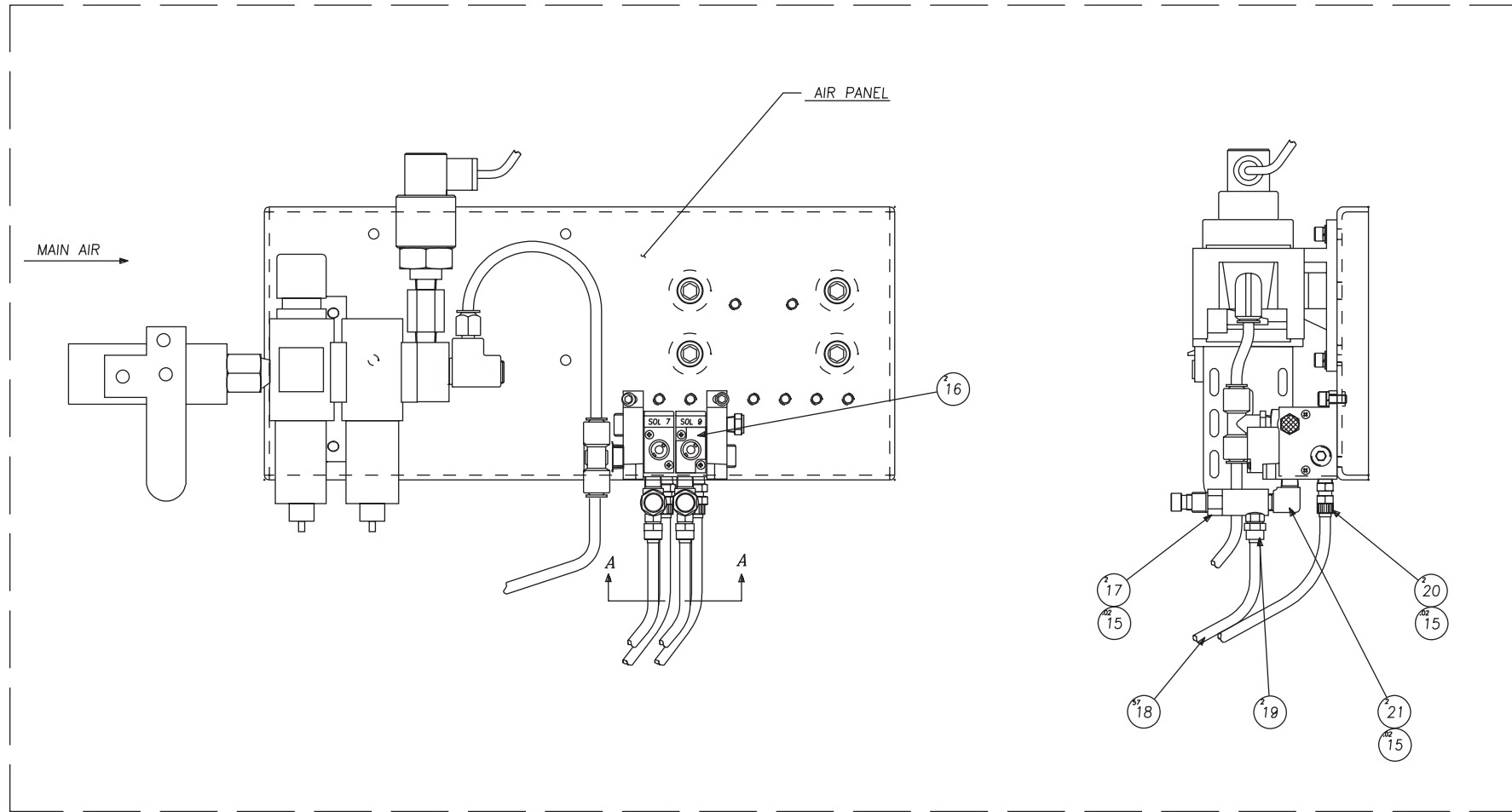
PART NUMBER
SGA0003279CEP

Spindle Orient Assembly



NAME
2-1/2" SPINDLE ORIENT
ASSEMBLY

PART NUMBER
SG-0000279-A
SHEET 1 of 2

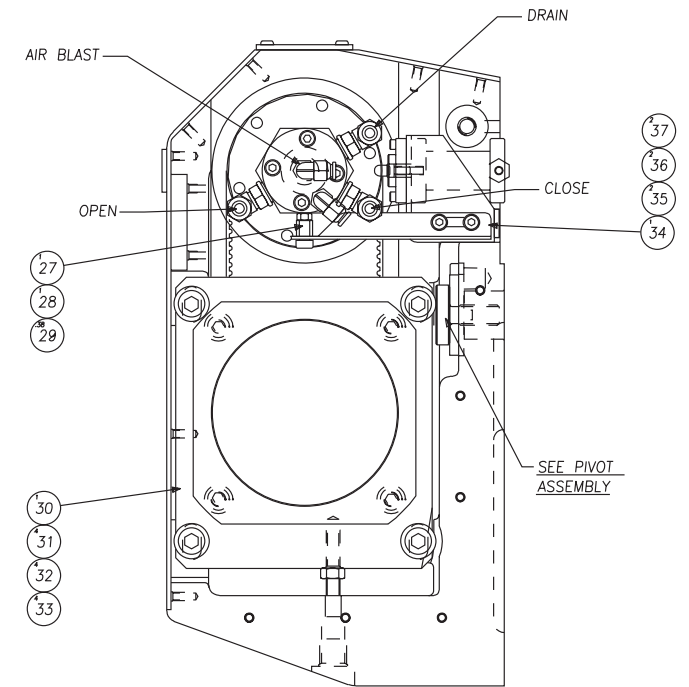
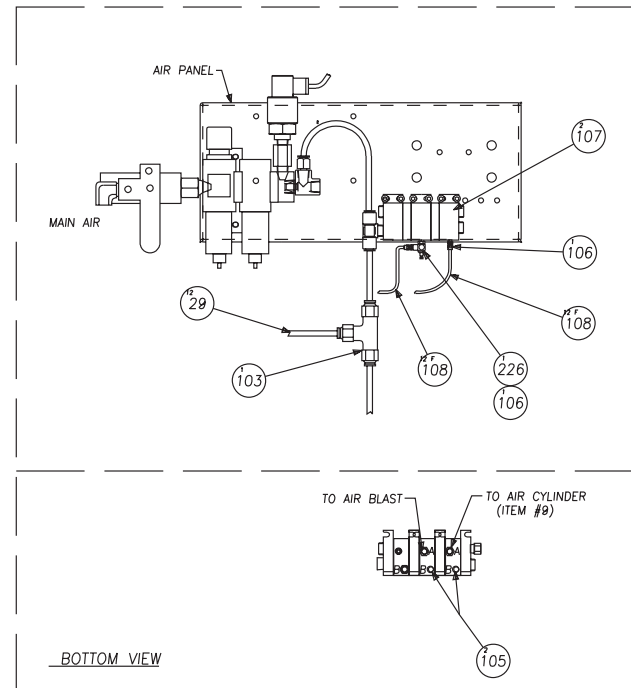
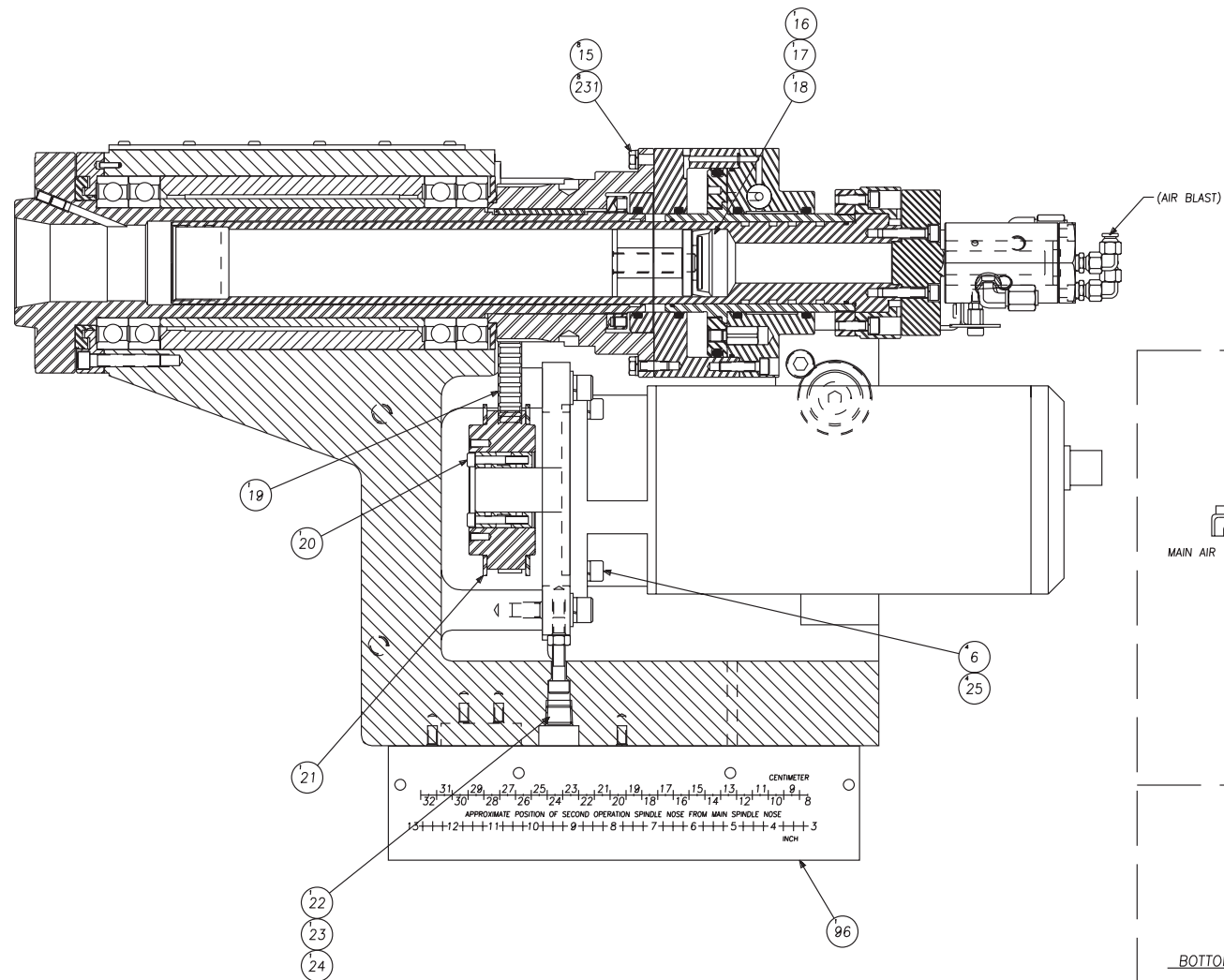
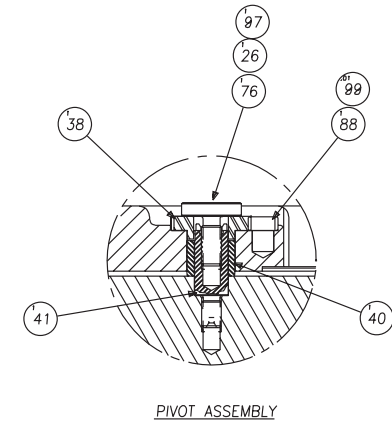
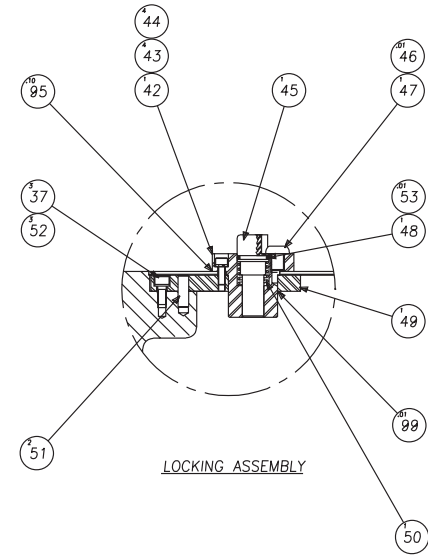
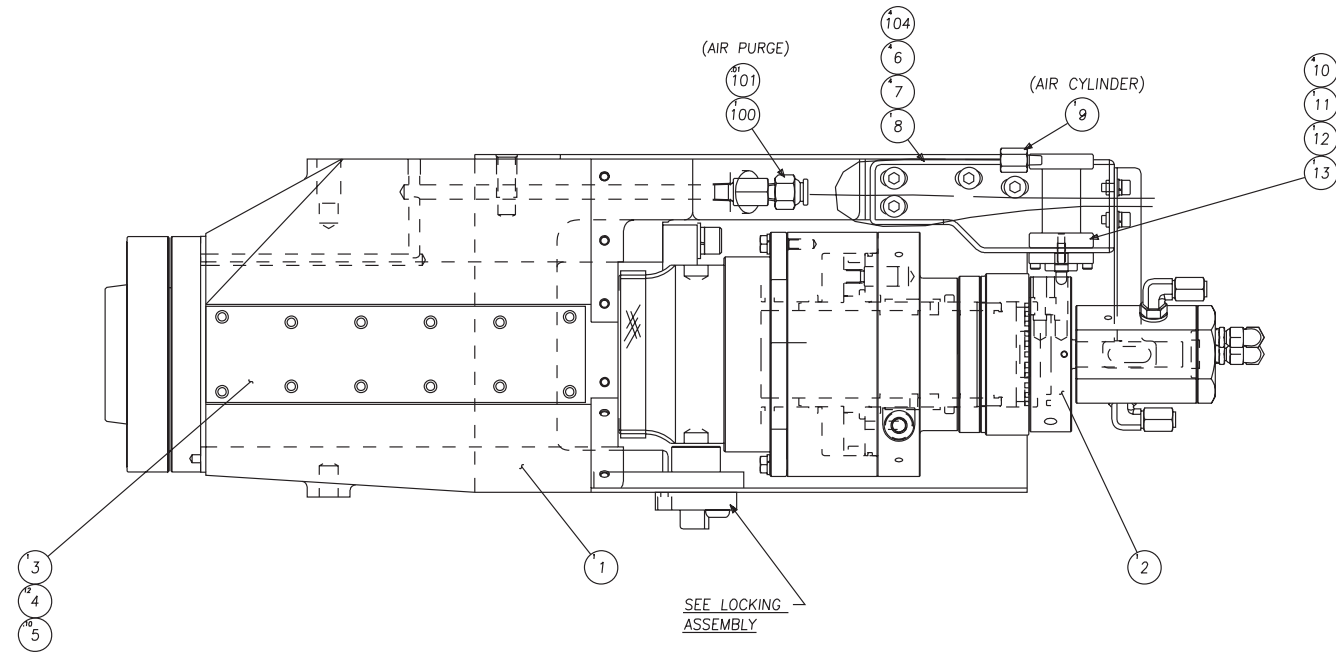


22	CL-0002024	4	PIN, DOWEL 1/4" X 3/4"
21	NC-0010786	2	ELBOW, STREET (1/8 NPT-1/8
20	268-0007702-04	2	CONNECTOR, MALE
19	RF-0010786-01	2	FITTING, STRAIGHT PARKER #
18	AH-0007007-NF	57	TUBING, 1/4" OD
17	CS-0010779-04	2	REGULATOR ADI #53-01-02 1/
16	CL-0003048-09	2	VALVE, AIR
15	LT-0010884-S	0	SEALANT, PIPE
14	RF-0011335-01	1	MUFFLER
13	RH-0011622-01	2	SLEEVE, PLASTIC COIL
8	MW-0183610	4	WASHER, LOCK M6
6	MS-0103619	4	SCREW, SOC HD M6 X 25MM
5	CL-0004053-03	1	SPROCKET, SPINDLE ORIENT
3	MS-0103818	4	SCREW, SOC HD M8 X 20MM
2	SG-0009496-01	1	SPACER, SPINDLE ORIENT
1	CL-0000279-A	1	2-1/2' SPINDLE ORIENT AS
ITEM	PART NUMBER	QTY	DESCRIPTION

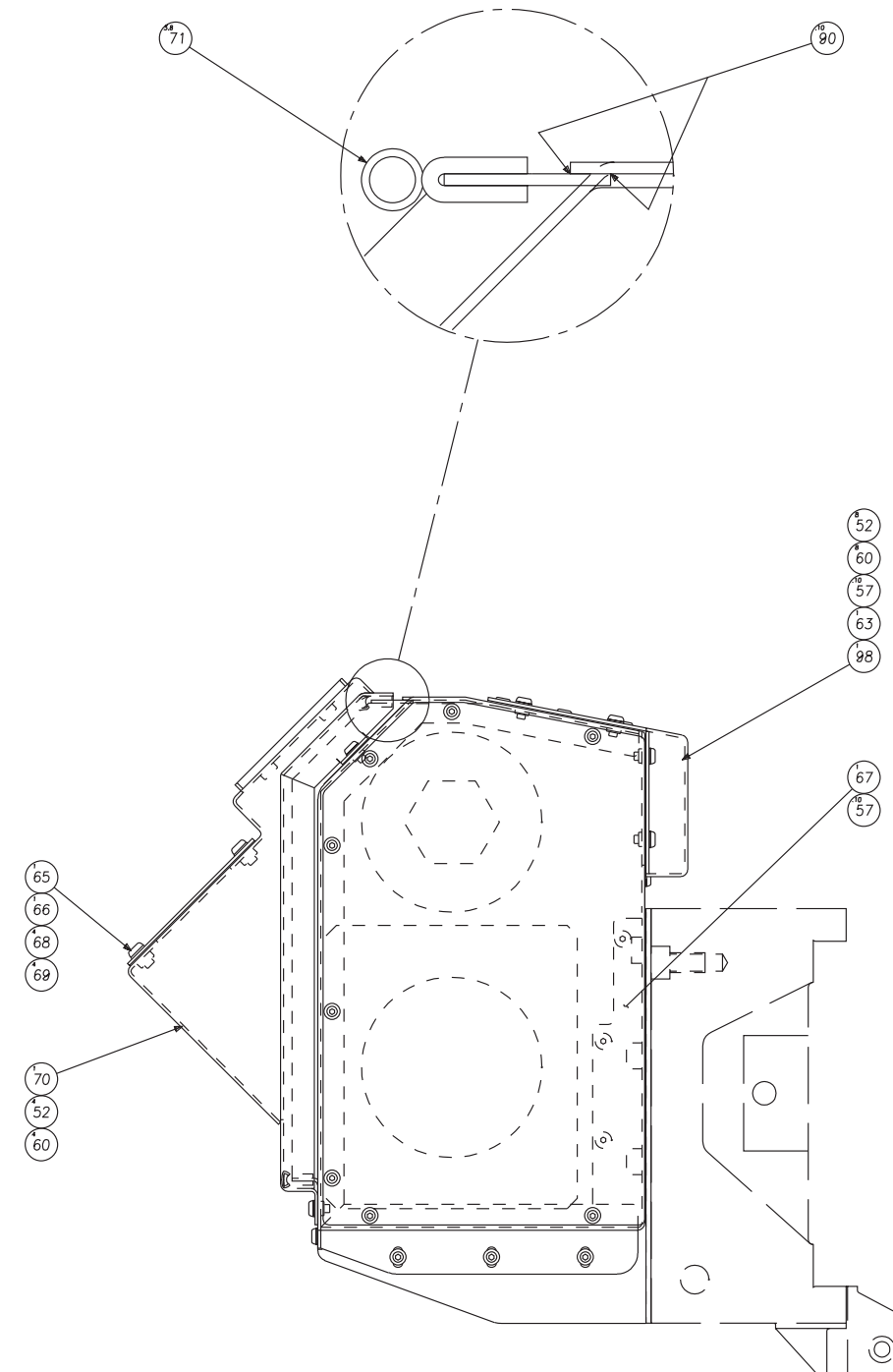
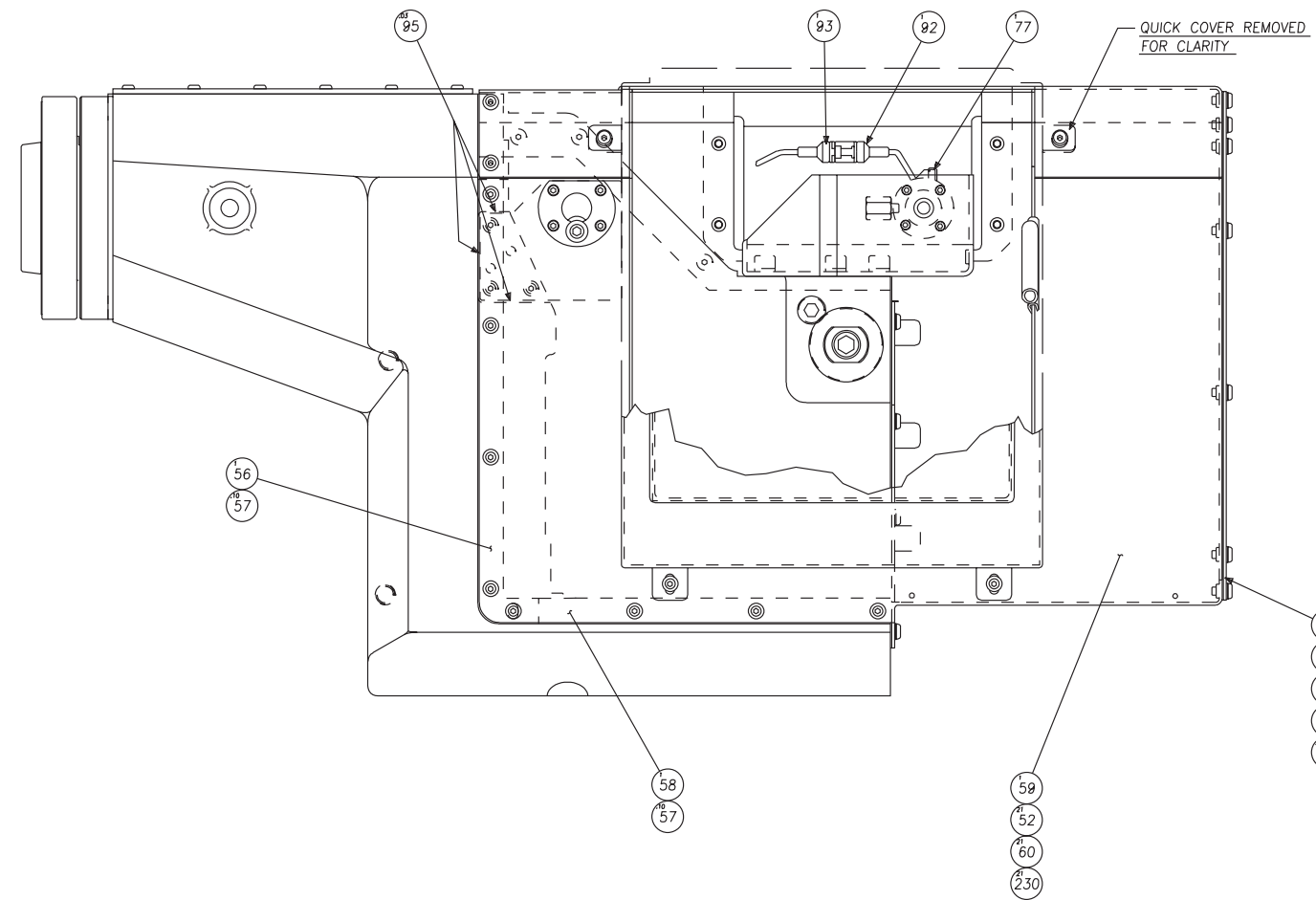
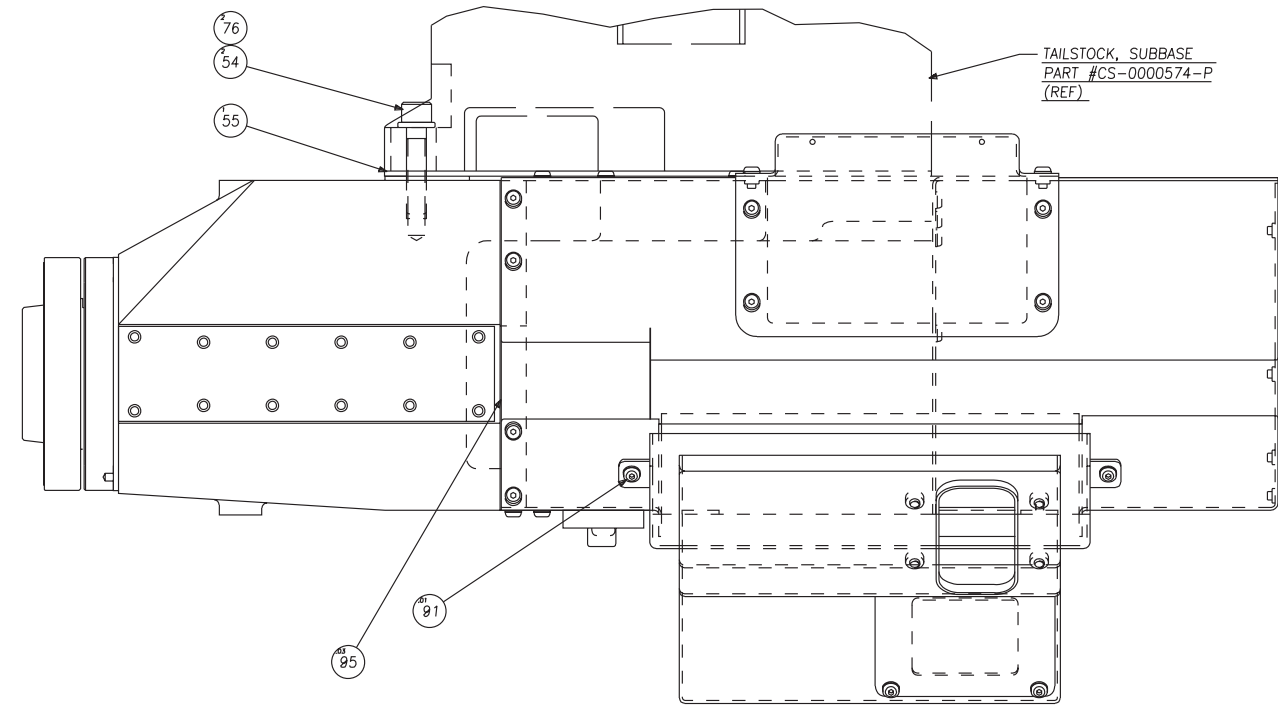
NAME
2-1/2' SPINDLE ORIENT
ASSEMBLY

PART NUMBER
SG-0000279-A
SHEET 2 of 2

Sub-Spindle Assembly

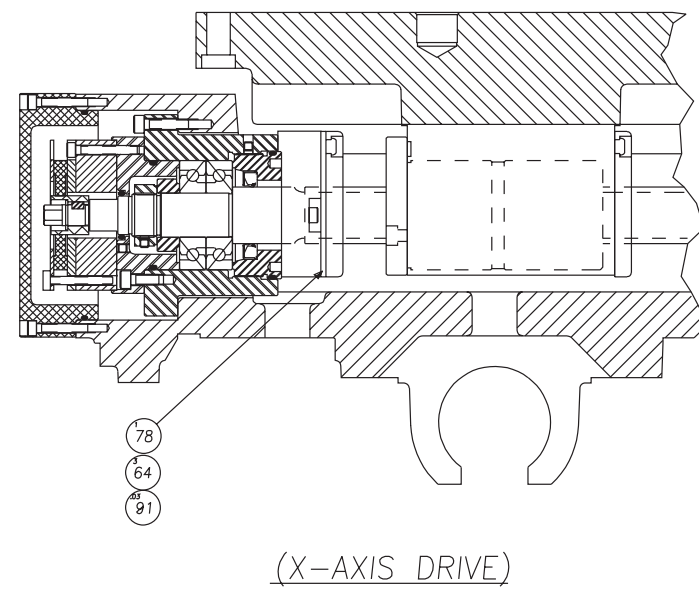
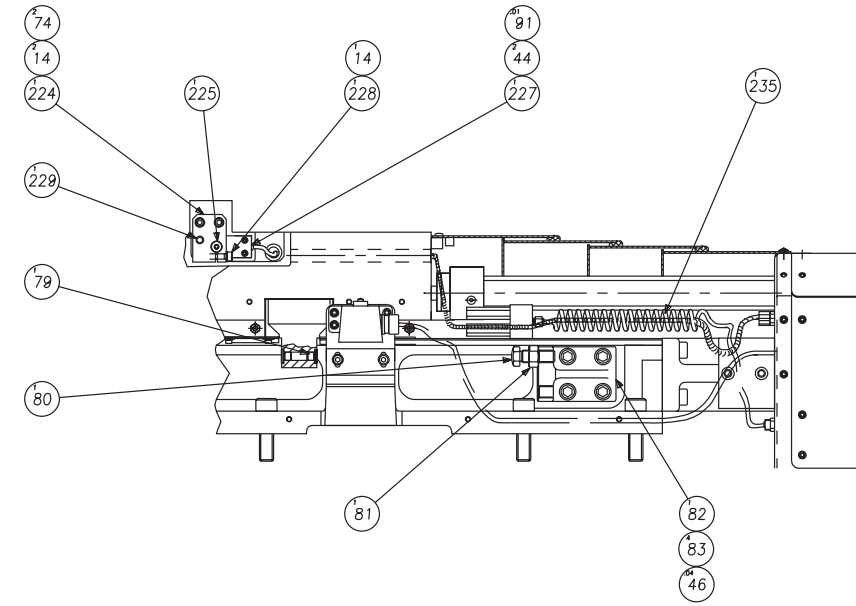
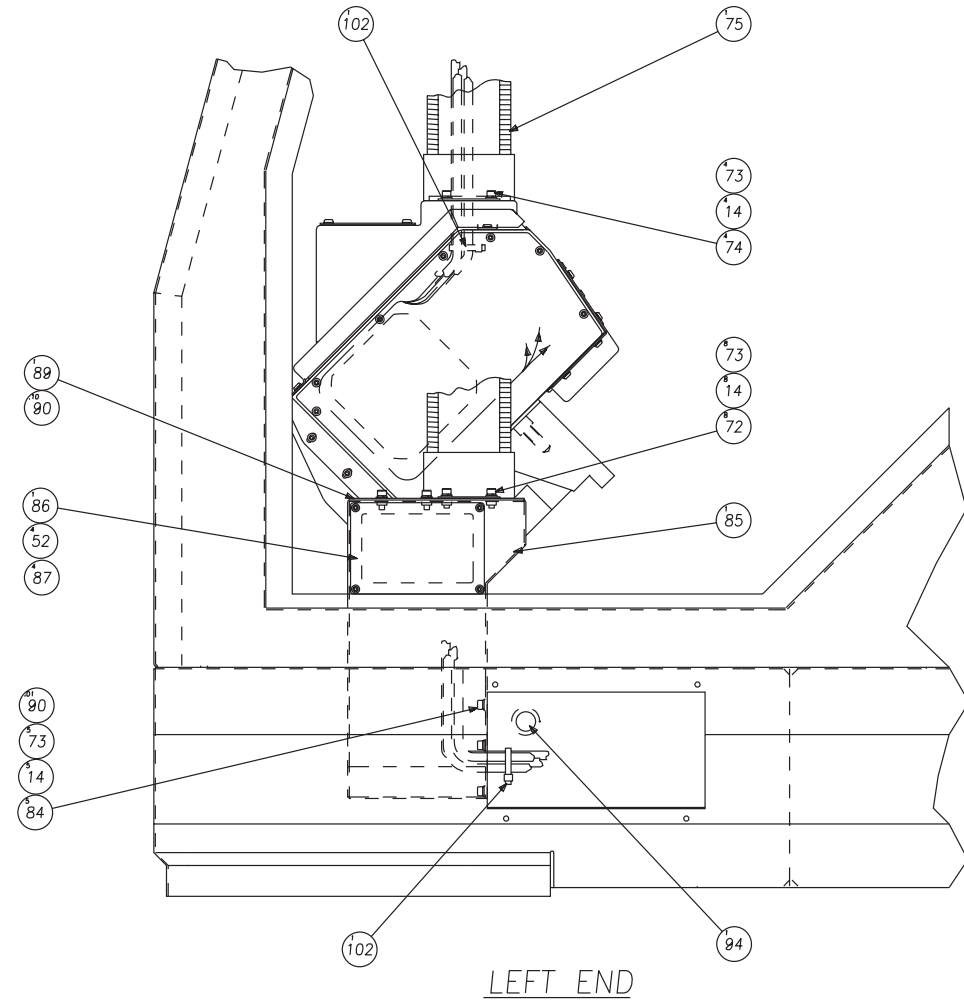


NAME: SUB-SPINDLE ASSEMBLY
PART NUMBER: SGC0000004
SHEET: 1 of 4



NAME SUB-SPINDLE ASSEMBLY PART NUMBER SGC0000004 SHEET 2 of 4

Sub-Spindle Assembly



NOT SHOWN:

- | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| (226) | (200) | (201) | (202) | (203) | (204) | (205) | (206) | (207) | (208) | (209) | (210) | (211) | (212) |
| (213) | (214) | (215) | (216) | (217) | (218) | (219) | (220) | (221) | (222) | (223) | | | |
| (9) | (69) | (90) | (106) | (108) | | | | | | | | | |

NAME: SUB-SPINDLE ASSEMBLY
 PART NUMBER: SGC0000004
 SHEET: 3 of 4

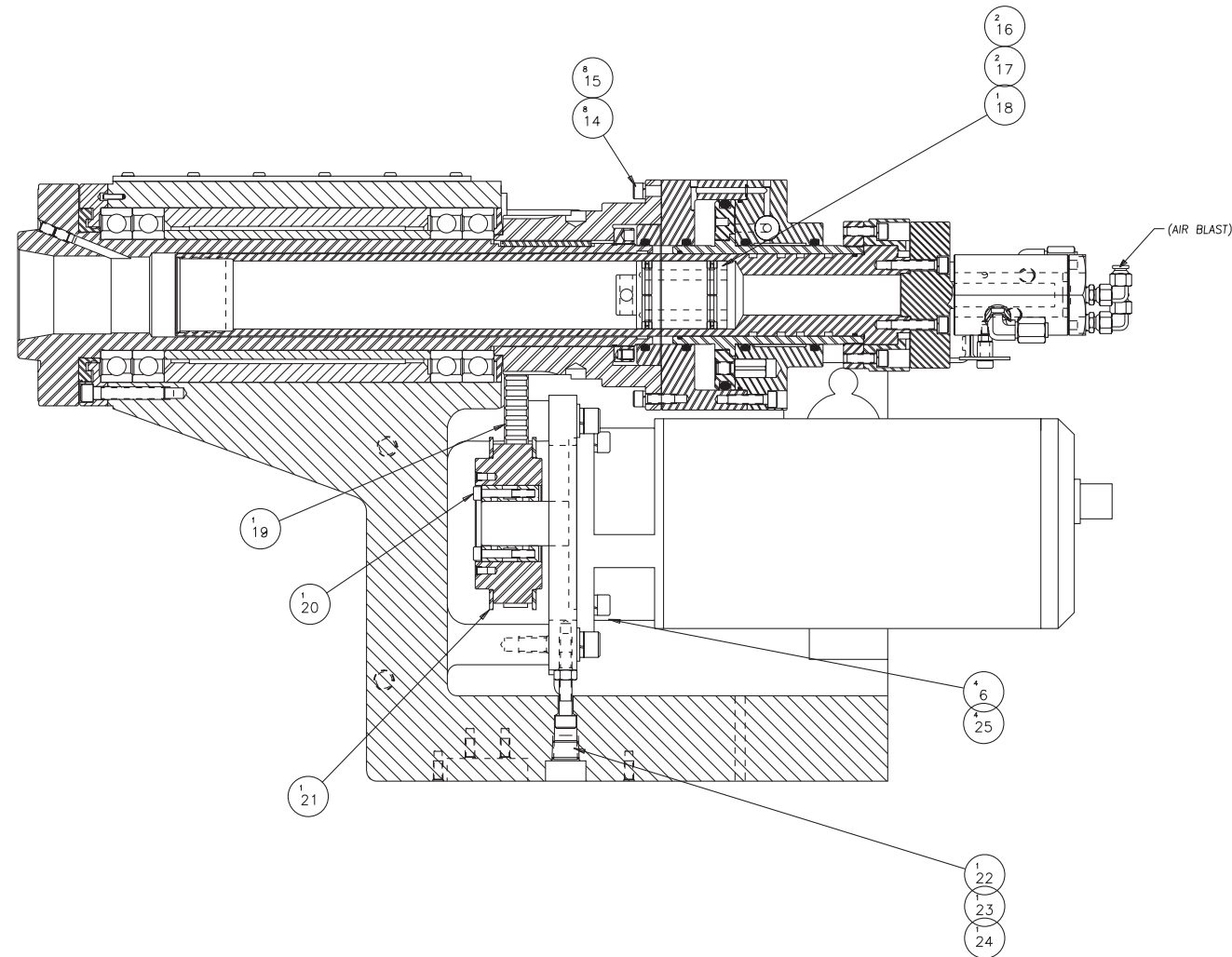
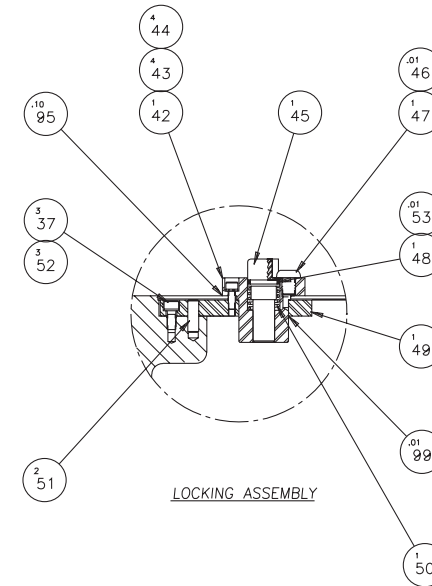
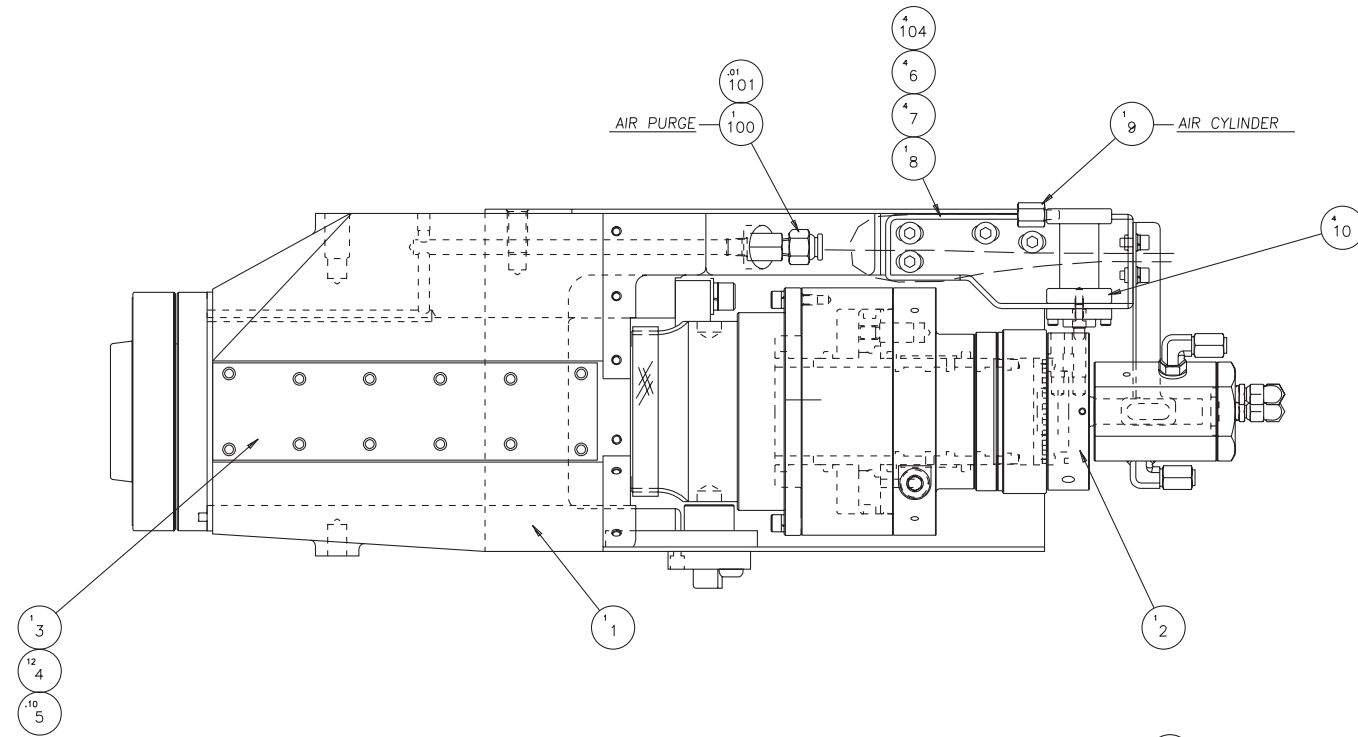
235	CS-0011780-01	1	SPRING, CONT. LENGTH
231	MW-0183610	8	M6 WASHER, LOCK
230	MD-0003623-B	21	FLAT WASHER-(BLACK)
229	MS-0573819	1	SCREW, SOC.SET M8
228	MS-0103619	1	M6 SCREW, SKHD CP X 25mm
227	CL-0010224-03	1	SWITCH,PROXIMITY
226	CL-0011452-02	2	FLOW CONTROL VALVE
225	CL-0011108	1	BUTTON, ACTUATOR
224	CL-0011292	1	ACTUATOR, SWITCH
223	F3-0009977-01	1	TAG, ID
222	LO-0002637	1	LAYOUT, TAG SG
221	FR-0007702	1	CONNECTOR, BULKHEAD
220	FR-0007702-04	1	CONNECTRO ST. MALE
219	MS-0303618	2	SCREW, BT HD M6X1.0X20MM
218	CSA-0010234-09	1	VALVE ASSY
217	F3-0009977	1	LABEL
216	CL-0009938	8	SLEEVE
215	SB-0006966	5	TY-RAP
214	KH-0011335	1	MUFFLER
213	SG-0004990-64	1	BRACKET
212	MN-0283610	2	NUT
211	EF-0009886	2	NUT
210	CT-0009181	4	WASHER, LOCK
209	MW-0103310	4	WASHER, FLAT REG. M3
208	0100012	2	#4-40 BT HD SCREW
207	SG-0002917-02	1	CYLINDER, FLAT
ITEM	PART NUMBER	QTY	DESCRIPTION

206	SG-0002990-52	1	DEFLECTOR, COOLANT RING
205	LO-0002685	1	LAYOUT, SAFETY CYLINDER
204	SG-0002321-04	1	GAGE, 2ND OP TOOL
203	SG-0008168-A	1	HANDLE ASSY
202	22A-0003011-03	1	CABLE 22AWG 3 COND.
201	CS-0003230-03	1	WASHER
200	SG-0010190-09	3	STANDOFF, COLLET CLOSER
108	AH-0007007-NF	36	TUBING, 1/2 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	2	TY-WRAP
101	LT-0010884-S	.01	SEALANT, PIPE
100	HG-0007702	1	FITTING, PRESS LOCK STR.
99	VS-0010440	.02	ANTI-SIEZE
98	SG-0020115-63	1	COVER, AIR CYLINDER
97	MS-0104220	1	M12 SCREW, SKHD CP X 40mm
96	SG-0010115-SS	1	COVER, SUB RAPID DOG
95	HG-0010884	.16	PERMATEX, ULTRA-BLUE
94	CK-0010331-01	1	PLUG
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	.22	SILICONE
89	SG-0004990-49	1	COVER, END
88	SG-0000530	1	GEAR
87	MS-0303514	4	M5 SCREW, BUTT HD x 8mm
86	SG-0010115-90	1	COVER, TOP
85	SG-0004990-37	1	DUCT, END WORKING ASSEMBL
84	MS-0103615	5	M6 SCREW, SKHD CP x 10mm
83	MS-0104221	4	M12 SCREW, SKHD CP x 35mm
82	CSA-0007839-08	1	BRACKET, STOP
81	MN-0114410	1	M14 NUT, HEX
80	CSA-0000580-02	1	BOLT, STOP
79	RH-0007491-06	1	BUTTON, STOP
78	SG-0011976-04	1	STOP, X-AXIS
77	SG-0010224	1	SWITCH, AIR CYLINDER
76	CS-0003230-01	3	WASHER, TS BASE
75	SG-0011623-04	1	CABLE CARRIER, GORETUBE
74	MS-0103616	6	M6 SCREW, SKHD CP x 12mm
73	MW-0103610	17	M6 WASHER, FLAT
72	MS-0103617	8	M6 SCREW, SKHD CP x 16mm
71	CN-0011198-15	3.8	GASKET, TRIM
70	SG-0020115-54	1	COVER, QUICK REMOVAL
69	MS-0303616	8	M6 SCREW, BUTT HD x 12mm
68	MW-0263610	4	M6 WASHER, STAR
67	SG-0020116-01	1	GASKET, HOUSING-BOTTOM LE
66	SG-0010116-97	1	GASKET, COVER PLATE
65	SG-0020115-57	1	COVER PLATE, BELLOWS
64	MS-0303516	3	M5 SCREW, BUTT HD x 12mm
63	SG-0010116-96	1	GASKET, AIR CYLINDER
62	SG-0010116-95	1	GASKET, END COVER
61	SG-0020115-59	1	COVER, END
60	MS-0303515	41	M5 SCREW, BUTT HD x 10mm
59	SGB-0020115-58	1	COVER, HOUSING
ITEM	PART NUMBER	QTY	DESCRIPTION

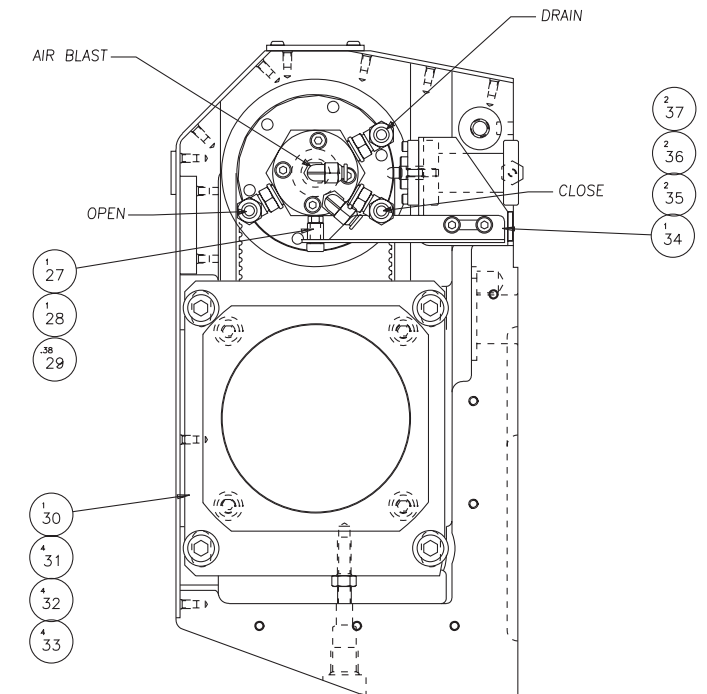
58	SG-0010116-99	1	GASKET, HOUSING-SIDE LEG
57	3-0010884-01	.5	3M ADHESIVE, WEATHERSTRIP
56	SGA-0010116-98	1	GASKET, HOUSING-TOP LEG
55	CS-0009001-02	1	SHIM, TAILSTOCK
54	MS-0104225	2	M12 SCREW, SKHD CP x 55mm
53	RF-0010994	.01	M55 GREASE
52	MW-0263510	48	M5 WASHER, STAR
51	CL-0002024	2	PIN, DOWEL
50	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	.05	ADHESIVE, LOCTITE #242
45	CL 0009873	1	PLUNGER
44	MS-0103417	6	M4 SCREW, SKHD CP x 16mm
43	MW-0193410	4	M4 WASHER, LOCK
42	CL 0011776L	1	HOUSING, LOCKING
41	CL-0011052	1	PIVOT
40	CSA-0011304-01	1	SLEEVE, ECCENTRIC
38	SG-0004938	1	WASHER, ECCENTRIC SLEEVE
37	MS-0103516	5	M5 SCREW, SKHD CP x 12mm
36	MW-0193510	2	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	4	M10 WASHER, LOCK
31	MW-0104010-H	4	M10 WASHER, FLAT-HARDENED
30	SGB000199109	1	PLATE, MOTOR
29	HG-0007007	12.38	TUBING
28	MN-0113510	1	M5 NUT, HEX
27	MS-0496016	1	M5 SCREW, SHOULDER SKHD
26	MW-0194210	1	M12 WASHER, LOCK
25	MS-0103820	4	M8 SCREW, SKHD CP x 30mm
24	MN-0113810	1	M8 NUT, HEX
23	MS-0103822	1	M8 SCREW, SKHD CP x 40mm
22	375-0001467	1	PLUG, PIPE 3/8 NPT
21	CLA000317709	1	PULLEY ASSEMBLY
20	SG-0010389	1	SLEEVE, CLAMPING
19	SGA000334605	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	20	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	SG-0003990-71	1	BRACKET, AIR CYLINDER
7	MS-0103818	4	M8 SCREW, SKHD CP x 20mm
6	MW-0193810	8	M8 WASHER, LOCK
5	CS-0010884-04	.1	ADHESIVE, BLACK INSTANT
4	CS-0011032	12	CLIP, NYLON ARROW
3	SGA-0006916-02	1	BUMPER
2	SG-000006-01	1	COLLET CLOSER ASSEMBLY
1	SGA00002632N	1	2nd OP, SPINDLE SUB-ASSY
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME SUB-SPINDLE ASSEMBLY PART NUMBER SGC0000004 SHEET 4 of 4

Sub-Spindle Assembly, Ball Screw, Unique Components, .46 Option

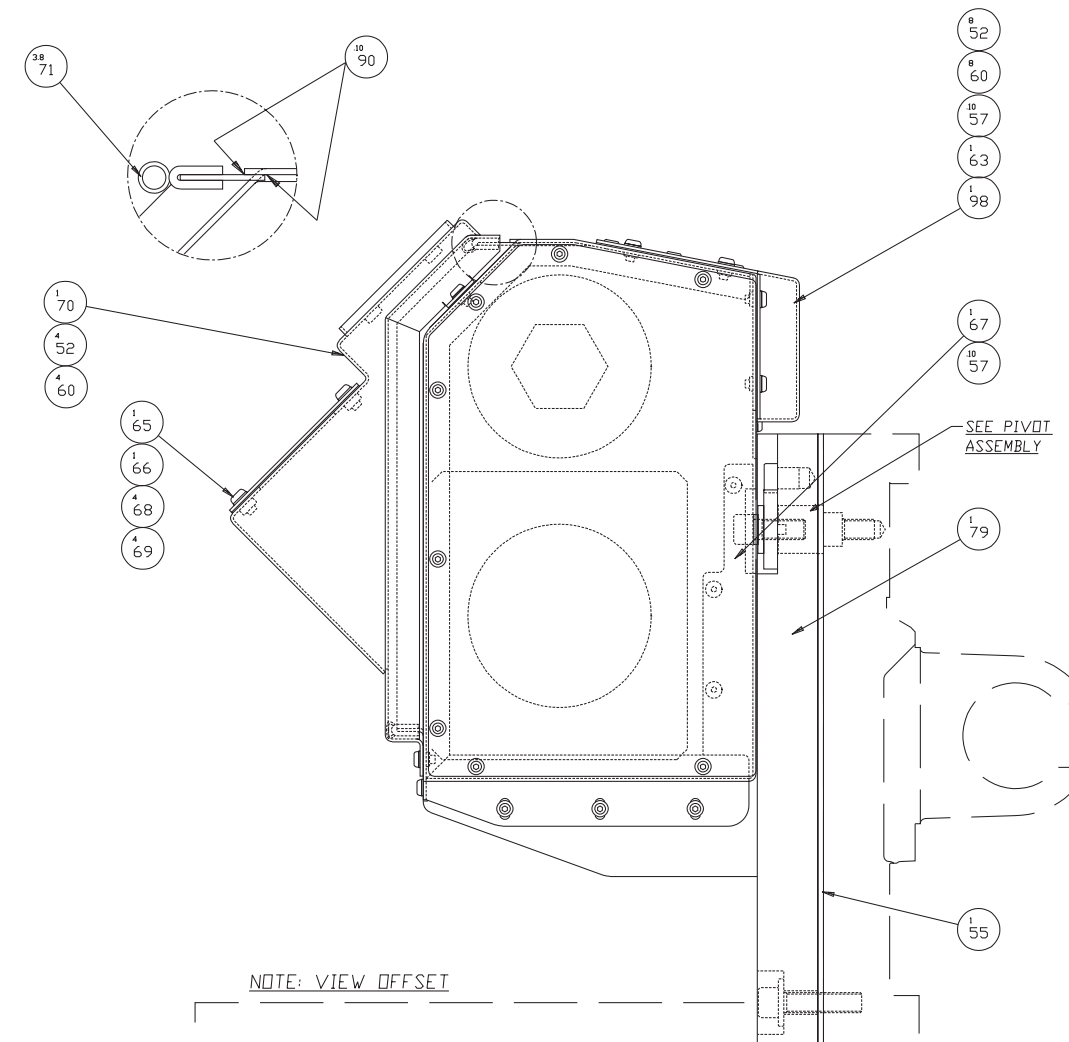
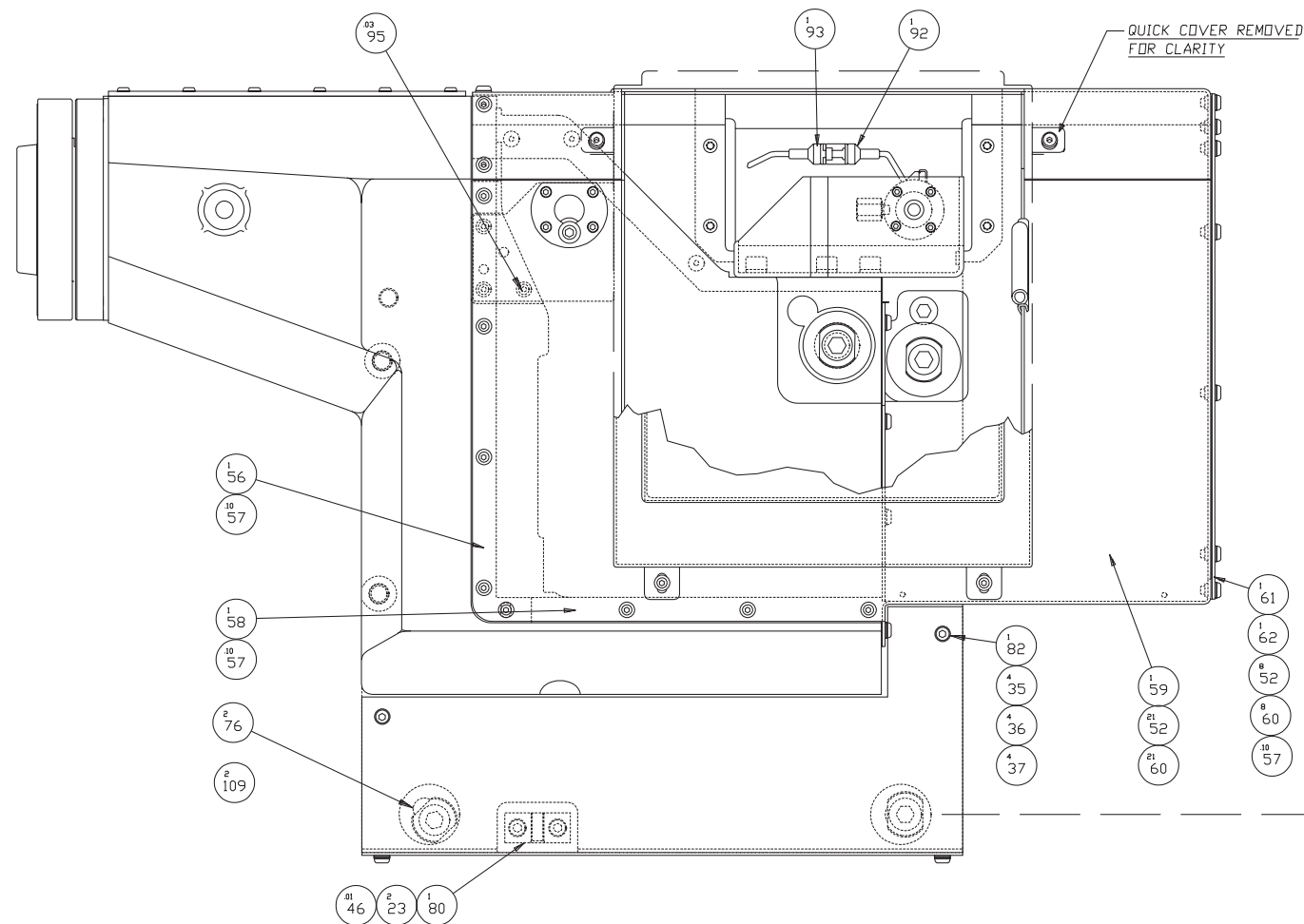
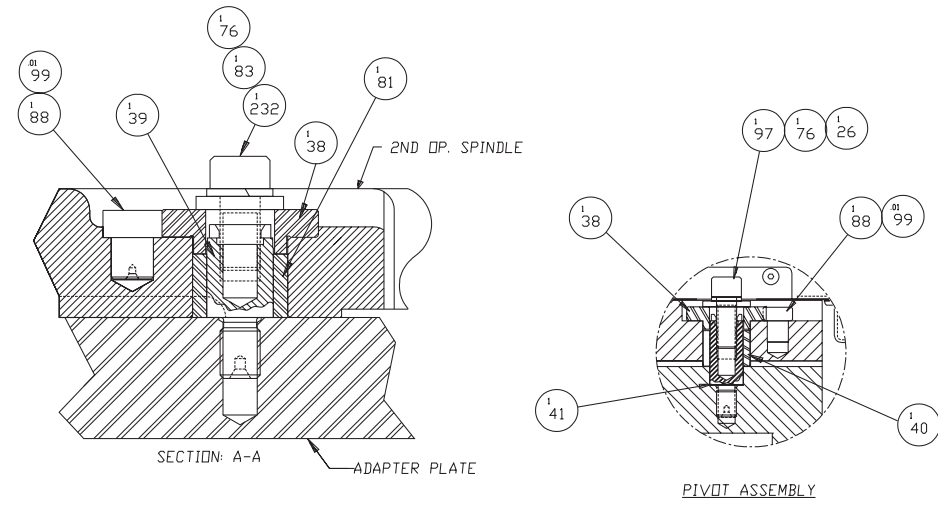
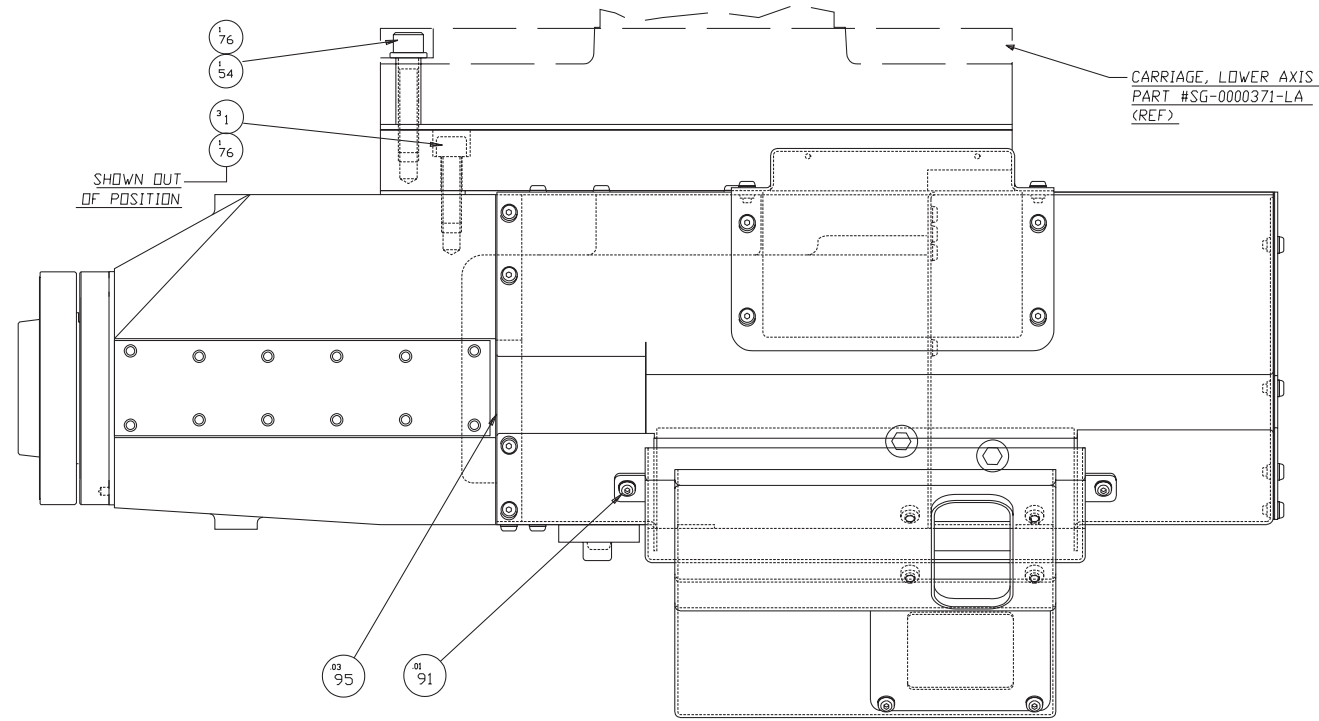


- 11
- 12
- 13



NAME: T-42 SUBSPINDLE ASSY 0.46 OPT. BALL SCREW ACTUATED
 PART NUMBER: SGA0000004BS
 SHEET: 1 OF 4

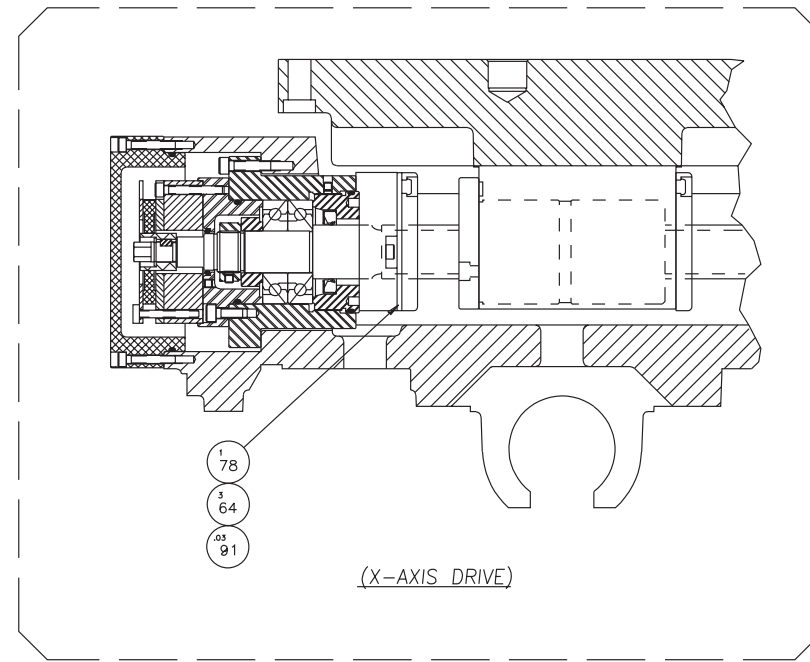
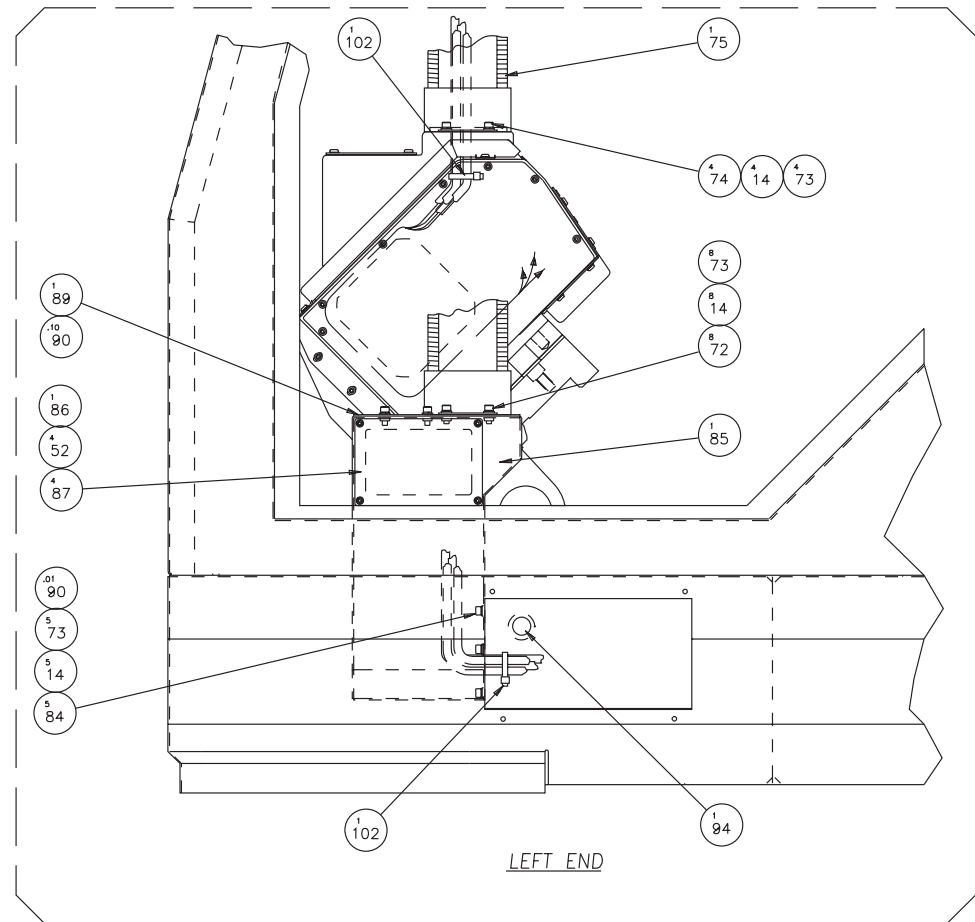
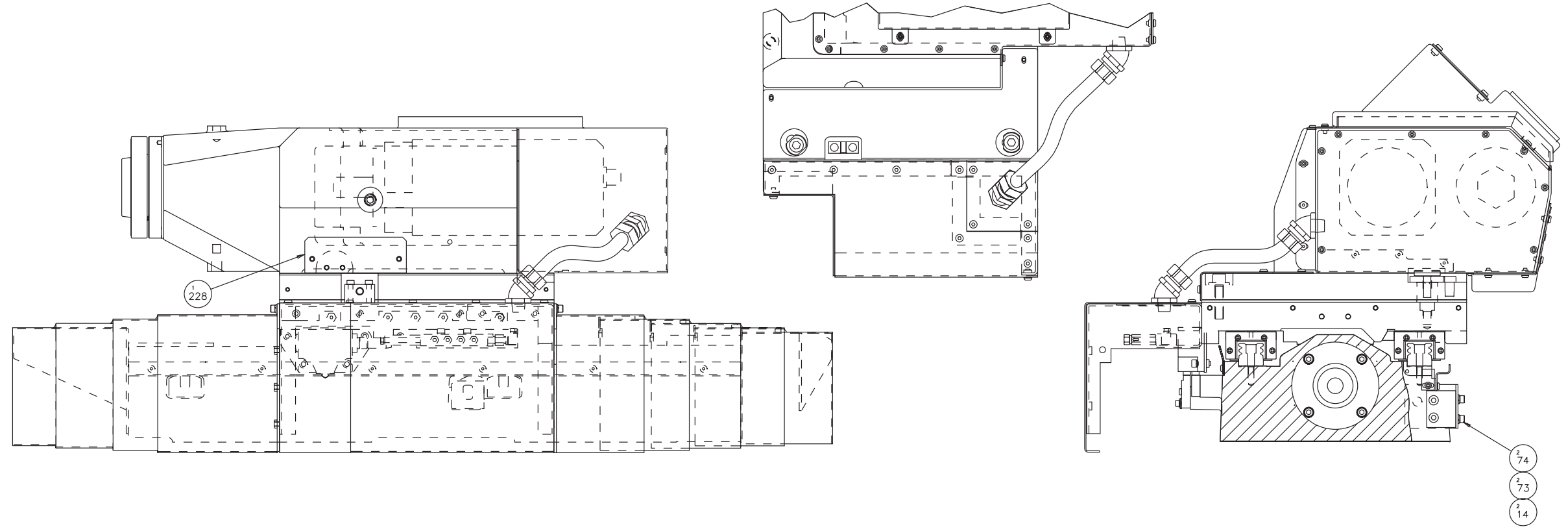
Sub-Spindle Assembly, Ball Screw, Unique Components, .46 Option



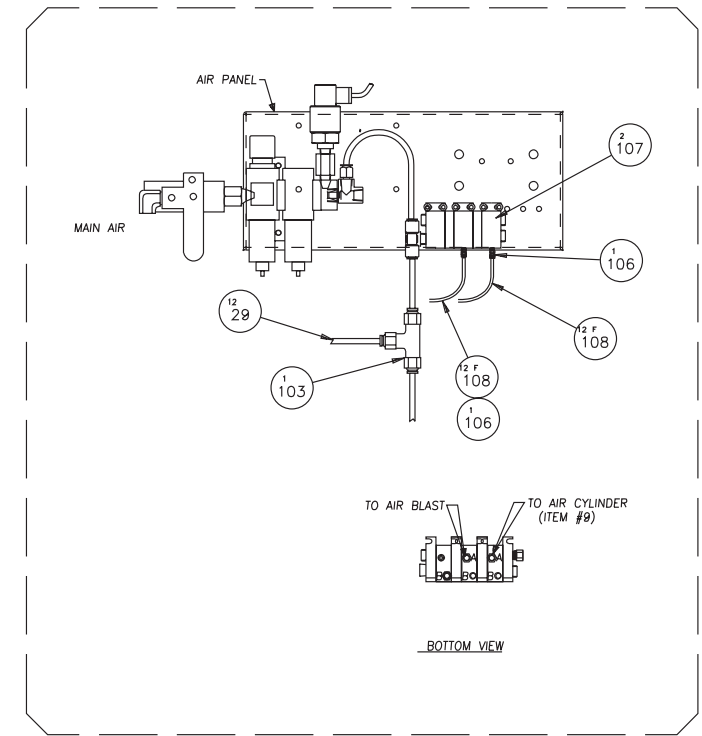
NAME: T-42 SUB-SPINDLE ASSY
0.46 OPTION BALL SCREW ACT.

PART NUMBER: SGA0000004BS
SHEET: 2 of 4

Sub-Spindle Assembly, Ball Screw, Unique Components, .46 Option



- NOT SHOWN:
- 1226
 - 3200
 - 1201
 - 1202
 - 1203
 - 1204
 - 1205
 - 1206
 - 1207
 - 2208
 - 4209
 - 4210
 - 2211
 - 2212
 - 1213
 - 1214
 - 5215
 - 8216
 - 1217
 - 1218
 - 2219
 - 1220
 - 1221
 - 1222
 - 1223
 - 1227
 - 19
 - 469
 - 0190
 - 1106
 - 12108



NAME: T42 SUBSPINDLE ASSY 0.46 OPT BALL SCREW ACTUATED
 PART NUMBER: SGA000004BS
 SHEET: 3 OF 4

Sub-Spindle Assembly, Ball Screw, Unique Components, .46 Option

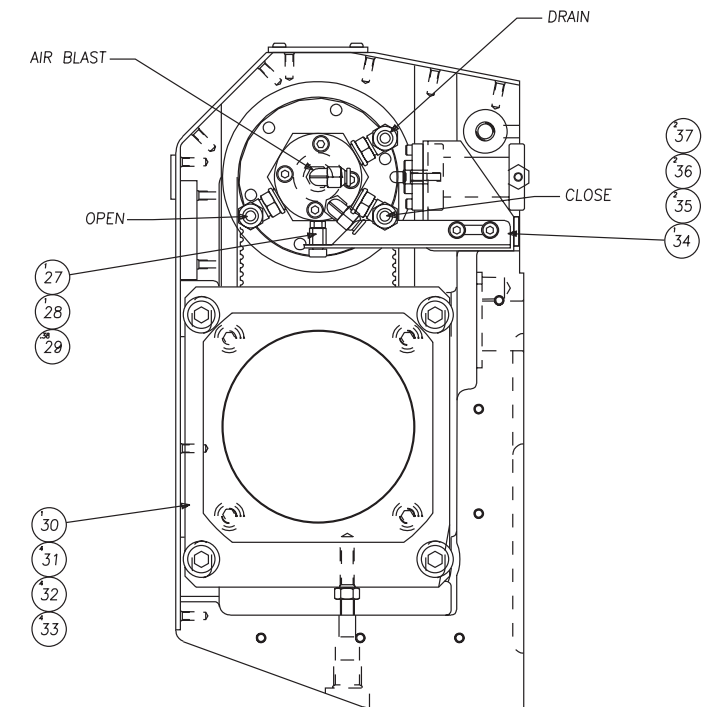
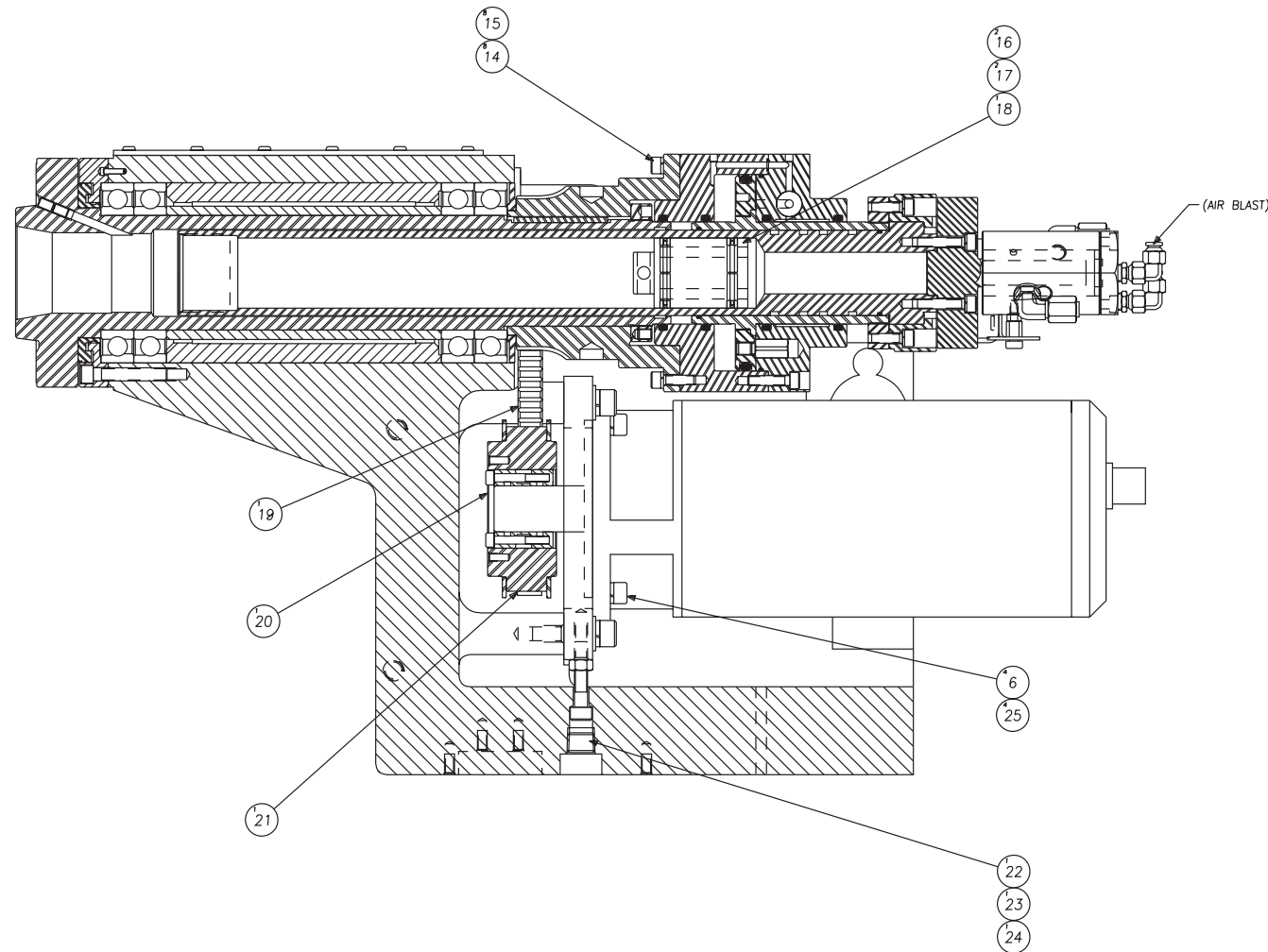
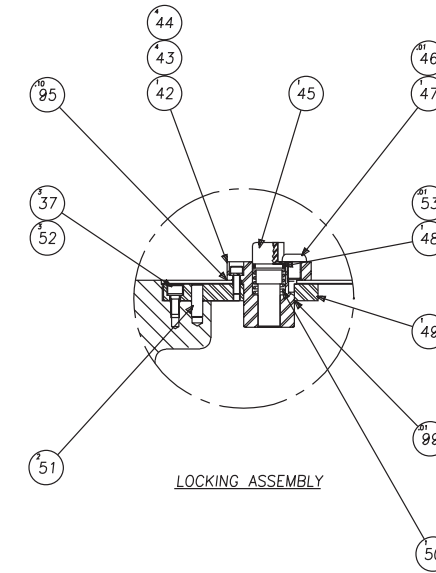
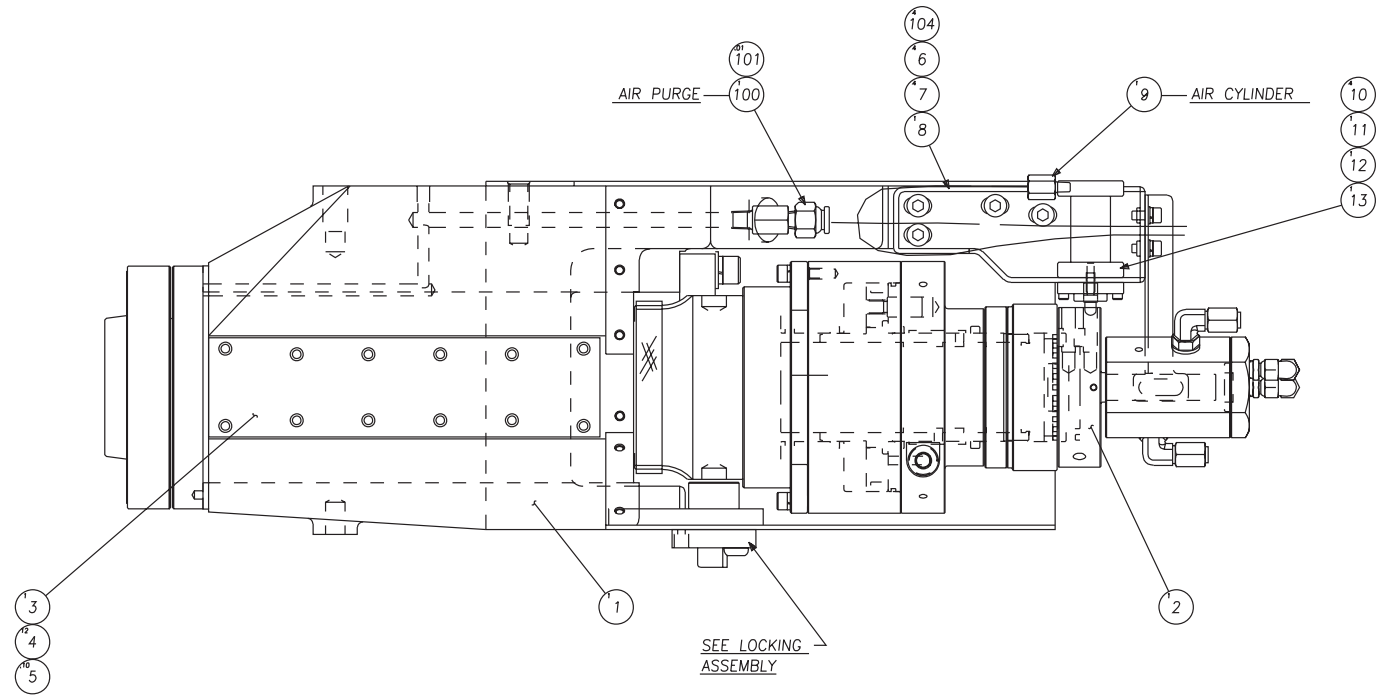
232	SG 001033101	1	PLUG, HOLE
228	SG-00101115-26	1	COVER, SWITCH
227	SG 001036606BS	1	TAG, HYD. VALVE
226	CL-0011452-02	1	FLOW CONTROL VALVE
223	F3-0009977-01	1	TAG, ID
222	LO-0002637	1	LAYOUT, TAG SG
221	FR-0007702	1	CONNECTOR, BULKHEAD
220	FR-0007702-04	1	CONNECTRO ST. MALE
219	MS-0303618	2	SCREW, BT HD M6X1.0X20MM
218	CSA-0010234-09	1	VALVE ASSY
217	F3-0009977	1	LABEL
216	CL-0009938	8	SLEEVE
215	SB-0006966	5	TY-RAP
214	KH-0011335	1	MUFFLER
213	SG-0004990-64	1	BRACKET
212	MN-0283610	2	NUT
211	EF-0009886	2	NUT
210	CT-0009181	4	WASHER, LOCK
209	MW-0103310	4	WASHER, FLAT REG. M3
208	0100012	2	#4-40 BT HD SCREW
207	SG-0002917-02	1	CYLINDER, FLAT
206	SG-0002990-52	1	DEFLECTOR, COOLANT RING
205	LO-0002685	1	LAYOUT, SAFETY CYLINDER
ITEM	PART NUMBER	QTY	DESCRIPTION

204	SG-0002321-04	1	GAGE, 2ND OP TOOL
203	SG-0008168-A	1	HANDLE ASSY
202	22A-0003011-03	1	CABLE 22AWG 3 COND.
201	CS-0003230-03	1	WASHER
200	SG-0010190-09	3	STANDOFF, COLLET CLOSER
110	MS-0154222-10	2	M12 SCREW, HEXHD x 40mm
109	MS-0104224	2	M12 SCREW, SKHD CP x 50mm
108	AH-0007007-NF	36	TUBING, 1/2 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	2	TY-WRAP
101	LT-0010884-S	.01	SEALANT, PIPE
100	HG-0007702	1	FITTING, PRESS LOCK STR.
99	VS-0010440	.03	ANTI-SIEZE
98	SG-0020115-63	1	COVER, AIR CYLINDER
97	MS-0104220	1	M12 SCREW, SKHD CP X 30MM
95	HG-0010884	.16	PERMATEX, ULTRA-BLUE
94	CK-0010331-01	1	PLUG
93	CN-0012042-42	1	CONNECTOR, CABLE-MALE
92	CN-0010225	1	CONNECTOR, CABLE-FEMALE
91	NC-0010884-01	.04	ADHESIVE, LOCTITE #222
90	GE-0010884	.22	SILICONE
89	SG-0004990-49	1	COVER, END
88	SG-0000530	3	GEAR
87	MS-0303514	4	M5 SCREW, BUTT HD x 8mm
86	SG-0010115-90	1	COVER, TOP
85	SG-0004990-37	1	DUCT, END WORKING ASSEMBL
84	MS-0103615	5	M6 SCREW, SKHD CP x 10mm
83	MW-0194210	1	M12 WASHER, SQUARE LOCK S
82	SG-0010215-24	1	COVER, SUB SPINDLE
81	SG-0011304-01	1	SLEEVE, ECCENTRIC
80	CSB-0011320-02	1	BLOCK, PLATE ADJUSTING
79	SG-0007861-01	1	ADAPTER PLATE, SUB-SPINDL
78	SGB-0011976-04	1	STOP, X-AXIS
77	ME	1	SWITCH, AIR CYLINDER
76	CS-0003230-01	7	WASHER, TS BASE
75	SG-0011623-04	1	CABLE CARRIER, GORETUBE
74	MS-0103616	6	M6 SCREW, SKHD CP x 12mm
73	MW-0103610	19	M6 WASHER, FLAT
72	MS-0103617	8	M6 SCREW, SKHD CP x 16mm
71	CN-0011198-15	3.8	GASKET, TRIM
70	SG-0020115-54	1	COVER, QUICK REMOVAL
69	MS-0303616	8	M6 SCREW, BUTT HD x 12mm
68	MW-0263610	4	M6 WASHER, STAR
67	SG-0020116-01	1	GASKET, HOUSING-BOTTOM LE
66	SG-0010116-97	1	GASKET, COVER PLATE
65	SG-0020115-57	1	COVER PLATE, BELLOWS
64	MS-0303516	3	M5 SCREW, BUTT HD x 12mm
63	SG-0010116-86	1	GASKET, AIR CYLINDER
62	SG-0010116-95	1	GASKET, END COVER
61	SG-0020115-59	1	COVER, END
60	MS-0303515	41	M5 SCREW, BUTT HD x 10mm
59	SG-0010215-21	1	COVER, UPPER
58	SG-0010116-99	1	GASKET, HOUSING-SIDE LEG
ITEM	PART NUMBER	QTY	DESCRIPTION

57	3-0010884-01	.5	3M ADHESIVE, WEATHERSTRIP
56	SGA-0010116-98	1	GASKET, HOUSING-TOP LEG
55	SG-0009001-01	1	SHIM, SUB-SPINDLE
54	MS-0104226	1	M12 SCREW, SKHD CP x 60mm
53	RF-0010994	.01	M55 GREASE
52	MW-0263510	48	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	SG-0009873-01	1	PLUNGER
44	MS-0103416	4	M4 SCREW, SKHD CP x 12mm
43	MW-0193410	4	M4 WASHER, LOCK
42	SG-0011776-L	1	HOUSING, LOCKING
41	CL-0011052	1	PIVOT
40	CSA-0011304-01	1	SLEEVE, ECCENTRIC
39	SG-0011052-02	1	PIVOT
38	SG-0004938	2	WASHER, ECCENTRIC SLEEVE
37	MS-0103516	9	M5 SCREW, SKHD CP x 12mm
36	MW-0193510	6	M5 WASHER, LOCK
35	MW-0103510	6	M5 WASHER, FLAT
34	SG-0003990-70	1	BRACKET, ROTARY UNION
33	MS-0104021	4	M10 SCREW, SKHD CP x 35mm
32	MW-0194010	4	M10 WASHER, LOCK
31	MW-0104010-H	4	M10 WASHER, FLAT-HARDENED
30	SG-0001991-09	1	PLATE, MOTOR
29	HG-0007007	12.38	TUBING
28	MN-0113510	1	M5 NUT, HEX
27	MS-0496016	1	M5 SCREW, SHOULDER SKHD
26	MW-0194210	1	M12 WASHER, SQUARE LOCK S
25	MS-0103820	4	M8 SCREW, SKHD CP x 30mm
24	MN-0113810	1	M8 NUT, HEX
23	MS-0103822	3	M8 SCREW, SKHD CP x 40mm
22	375-1467	1	PLUG, PIPE 3/8 NPT
21	SG-0003177-A	1	PULLEY ASSEMBLY
20	SG-0010389	1	SLEEVE, CLAMPING
19	SG-0003346-05	1	BELT, 2nd OP SPINDLE
18	SGB-0008050-04	1	SCRAPER
17	SG-0004937-01	2	CLIP
16	16-0012021	2	RETAINING WIRE
15	MS-0103618	8	M6 SCREW, SKHD CP x 20mm
14	MW-0193610	27	M6 WASHER, LOCK
13	CL 0003346LA01	1	BELT, LOWER AXIS
12	SG 000317754S	1	PULLEY, 54 T
11	SG 000317754M	1	PULLEY, 54 T
10	100110	4	#6-32 SCREW, SKHD CP X .6
9	RF-0010786-01	2	FITTING
8	SG-0003990-71	1	BRACKET, AIR CYLINDER
7	MS-0103818	4	M8 SCREW, SKHD CP x 20mm
6	MW-0193810	8	M8 WASHER, LOCK
5	CS-0010884-04	.1	ADHESIVE, BLACK INSTANT
4	CS-0011032	12	CLIP, NYLON ARROW
3	SGA-0006916-02	1	BUMPER
2	SG-000006-01	1	COLLET CLOSER ASSEMBLY
1	SG-0000263-2N	1	2nd OP, SPINDLE SUB-ASSY
ITEM	PART NUMBER	QTY	DESCRIPTION

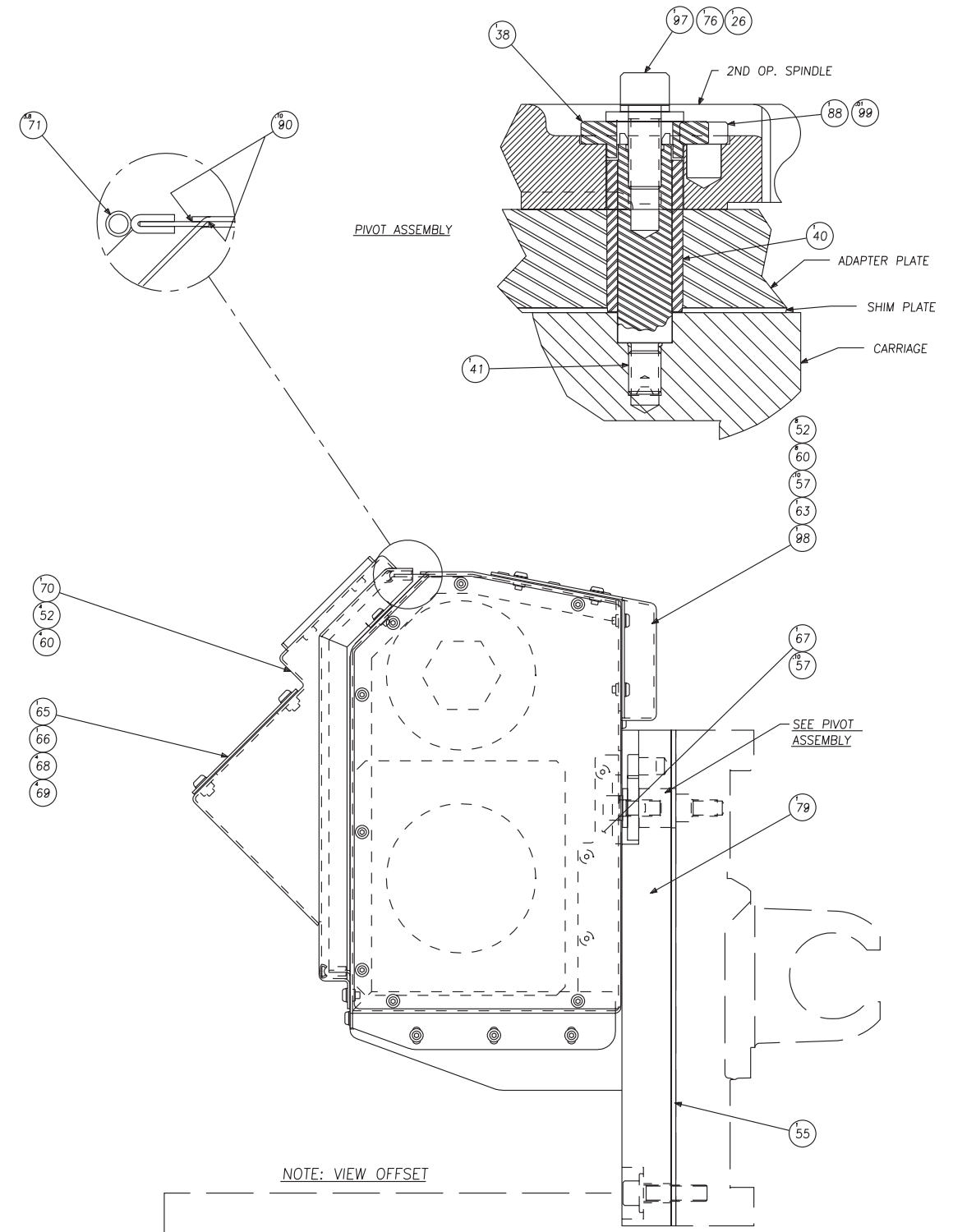
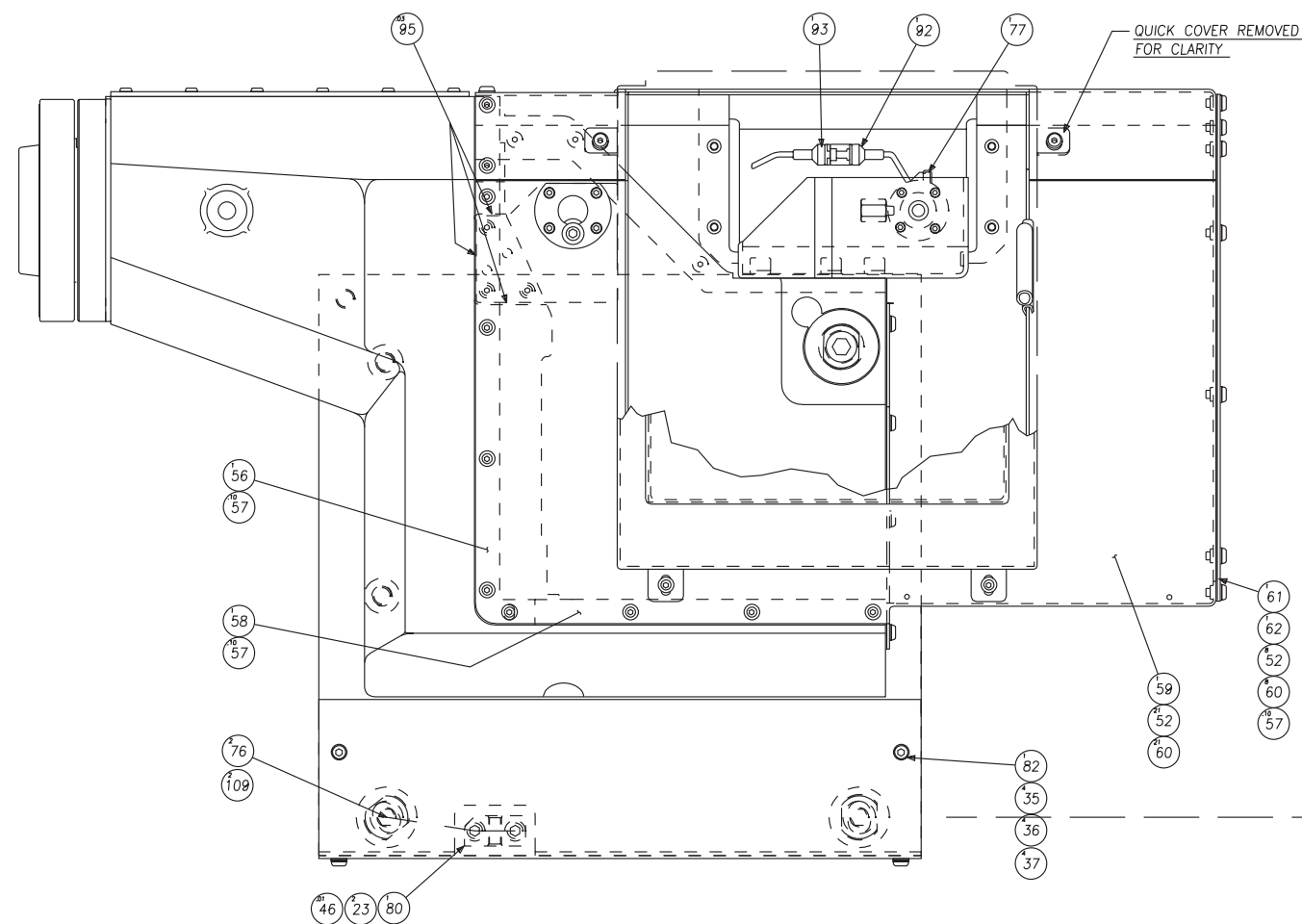
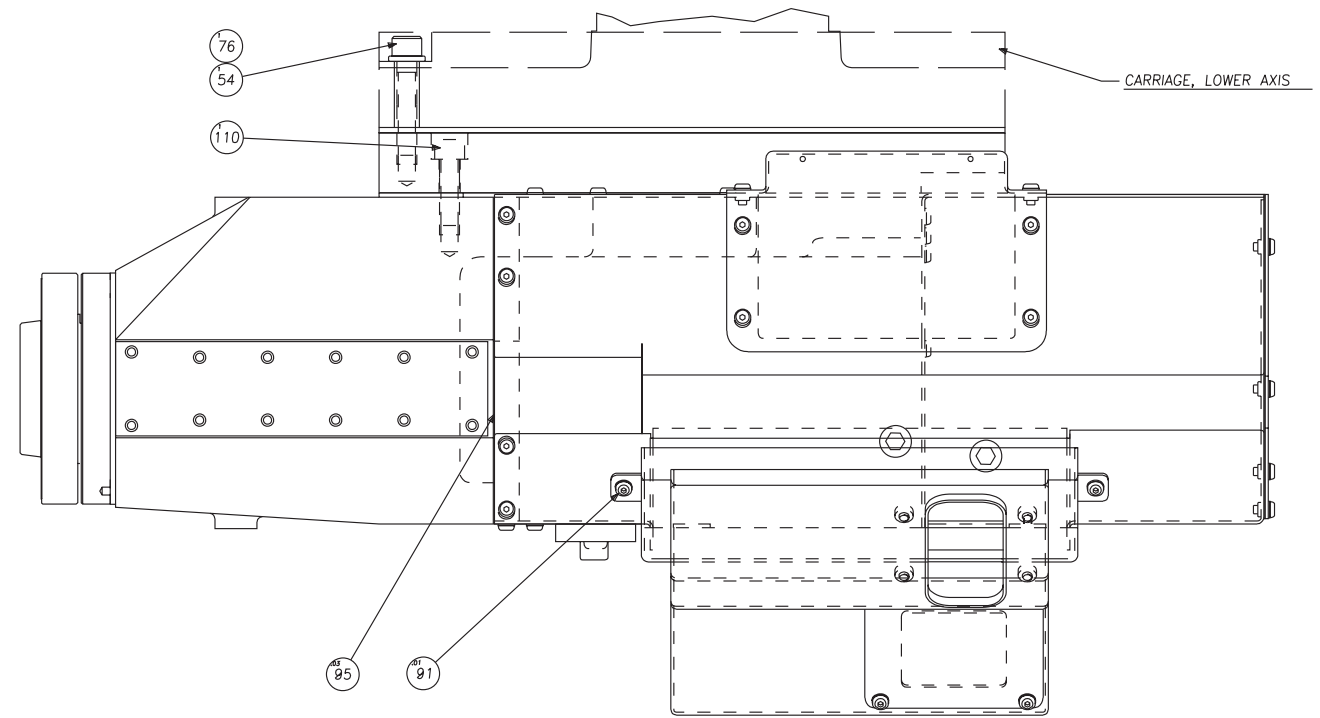
NAME T-42 SUB SPINDLE ASSEMBLY PART NUMBER SGA-0000004-BS
 0.46 OPTION BALL SCREW ACTUATED SHEET 4 of 4

Sub-Spindle Assembly, Ball Screw, Unique Components, 1.6 Option



NAME: T-42 SUB-SPINDLE ASSY
 1.6 OPTION BALL SCREW ACTUATED
 PART NUMBER: SG 0000004LABS
 SHEET: 1 of 4

Sub-Spindle Assembly, Ball Screw, Unique Components, 1.6 Option



NAME: T-42 SUB-SPINDLE ASSY
 1.6 OPTION BALL SCREW ACTUATED
 PART NUMBER: SG 000004LABS
 SHEET: 2 of 4

Sub-Spindle Assembly, Ball Screw, Unique Components, 1.6 Option

(232)

232	SG 001033101	1	PLUG, 1" HOLE
231	SG 001011526	1	COVER, SWITCH
230	MW 0104210	1	M12 WASHER, FLAT
229	MW 0194210	1	M12 WASHER, LOCK
228	MS 0104216	1	M12 SCREW, SKHD CP x 12mm
227	SG 000199013	1	BRACE
226	CL 001145202	1	FLOW CONTROL VALVE
223	F3 00097701	1	TAG, ID
222	LO 0002637	1	LAYOUT, TAG SG
221	FR 0007702	1	CONNECTOR, BULKHEAD
220	FR 000770204	1	CONNECTRO ST. MALE
219	MS 0303618	2	SCREW, BT HD M6X1.0X20MM
218	CSB001023409	1	VALVE ASSY
217	F3 0009977	1	LABEL
216	CL 0009938	8	SLEEVE
215	SBA0006966	5	TY-RAP
214	KH 0011335	1	MUFFLER
213	SG 000499064	1	BRACKET
212	MN 0283610	2	NUT
211	EF 0009886	2	NUT
210	CT 0009181	4	WASHER, LOCK
209	MW 0103310	4	WASHER, FLAT REG. M3
208	0100012	2	#4-40 BT HD SCREW
ITEM	PART NUMBER	QTY	DESCRIPTION

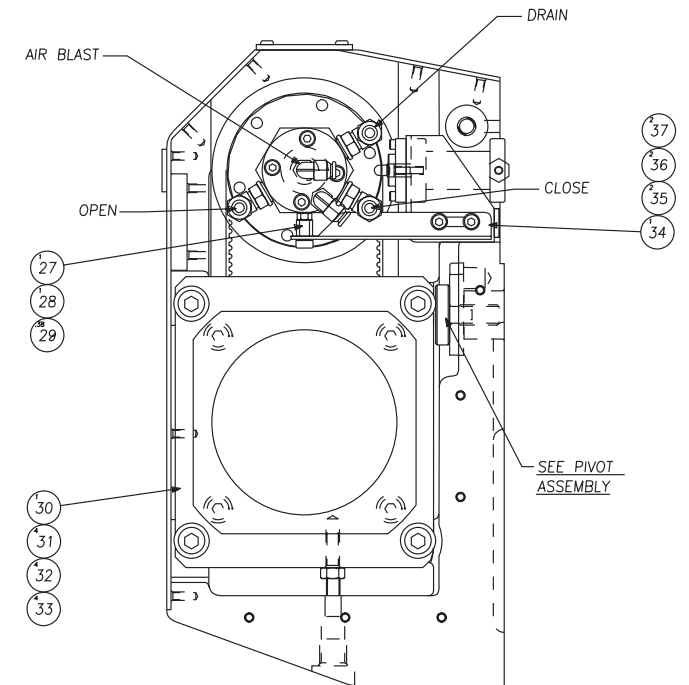
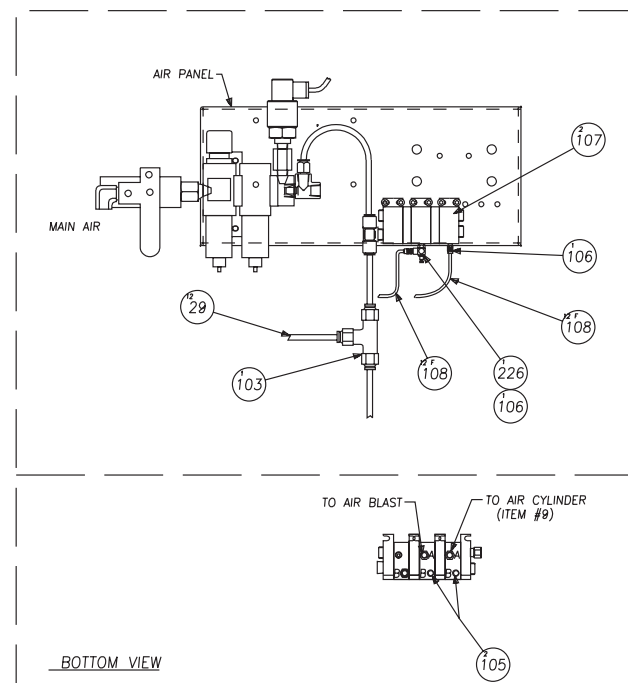
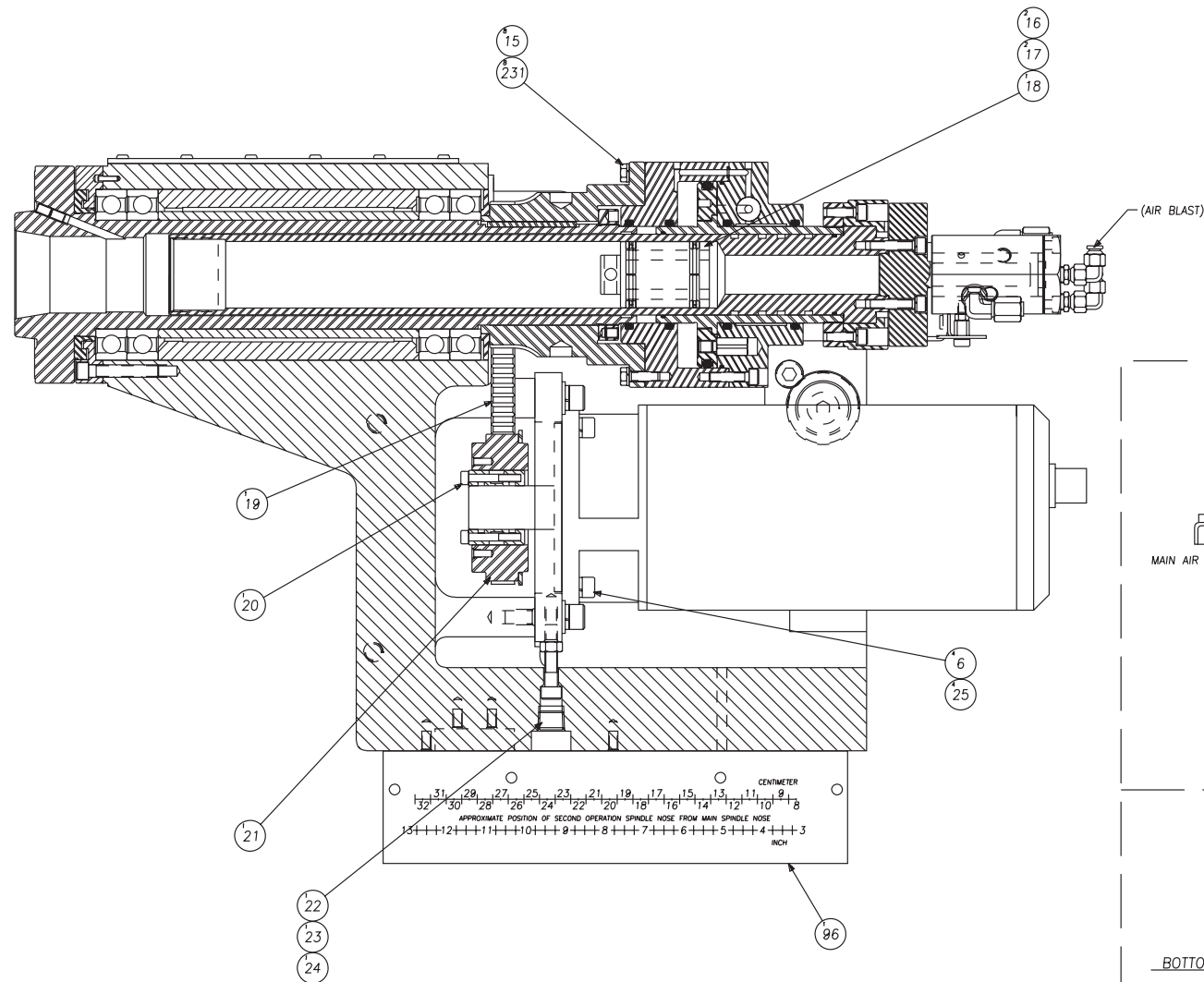
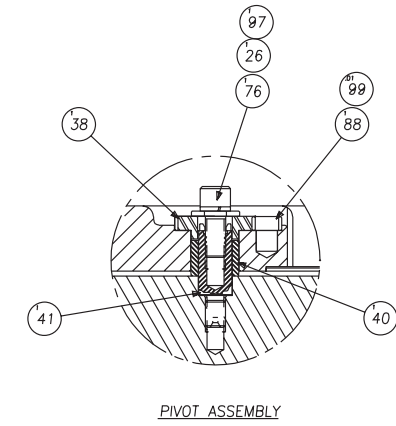
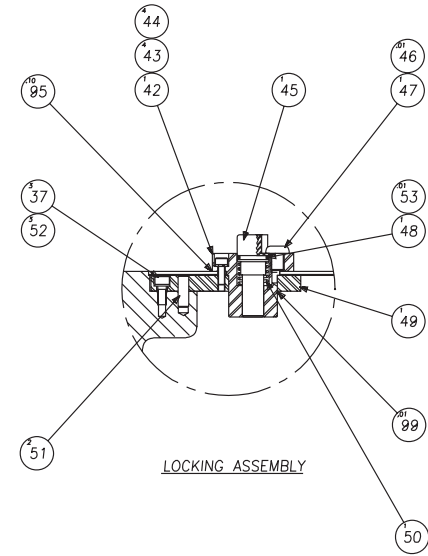
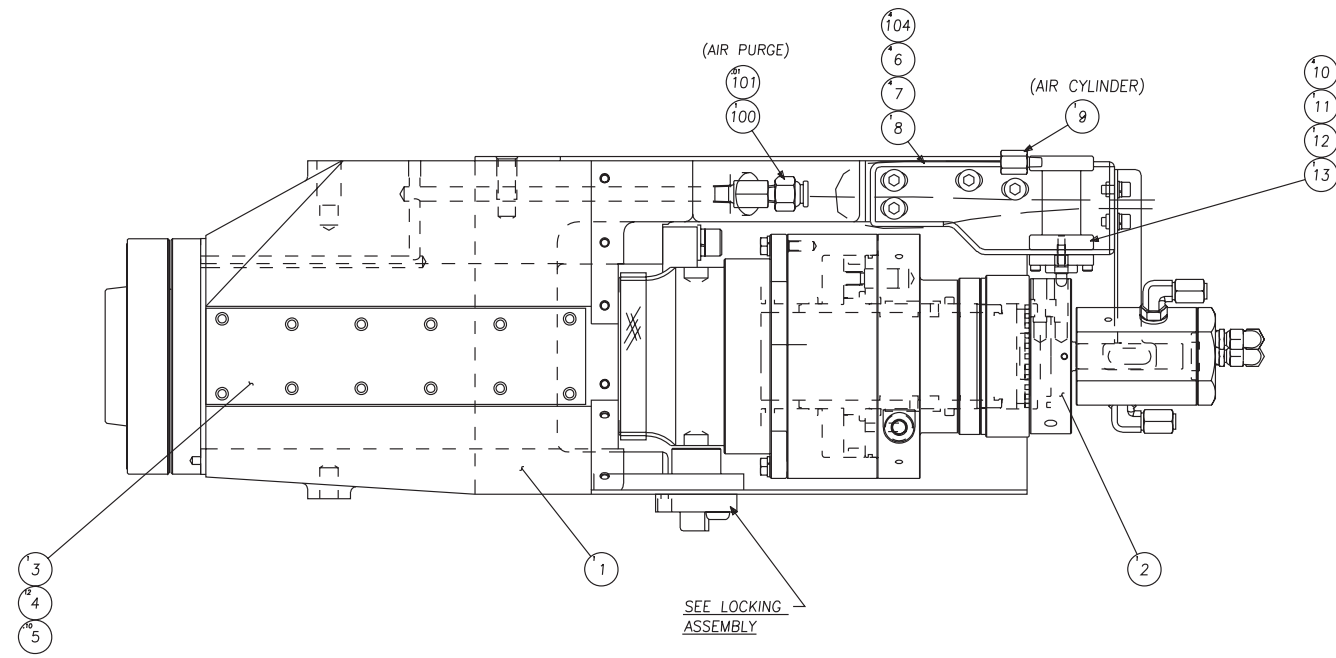
207	SG 000291702	1	CYLINDER, FLAT
206	SG 000299052	1	DEFLECTOR, COOLANT RING
205	LO 0002685	1	LAYOUT, SAFETY CYLINDER
204	SG 000232104	1	GAGE, 2ND OP TOOL
203	SG 0008168 A	1	HANDLE ASSY
202	22A000301103	1	CABLE 22AWG 3 COND.
201	CS 000323003	1	WASHER
200	SG 001019009	3	STANDOFF, COLLET CLOSER
110	MS 0104222	1	M12 SCREW, SKHD CP x 40mm
109	MS 0104224	2	M12 SCREW, SKHD CP x 50mm
108	AH 0007007NF	36	TUBING, 1/2 OD
107	CLA000304809	2	VALVE, AIR
106	268000770204	3	CONNECTOR, MALE
105	5 0001467	2	PLUG, PIPE
104	5 0001895	4	WASHER, FLAT
103	CL 000770205	1	TEE, UNION
102	AH 0009910	2	TY-WRAP
101	LT 0010884 S	.01	SEALANT, PIPE
100	HG 0007702	1	FITTING, PRESS LOCK STR.
99	VS 0010440	.02	ANTI-SIEZE
98	SG 002011563	1	COVER, AIR CYLINDER
97	MS 0104220	1	M12 SCREW, SKHD CP X 30MM
95	HG 0010884	.16	PERMATAX, ULTRA-BLUE
94	CK 001033101	1	PLUG
93	CN 001204242	1	CONNECTOR, CABLE-MALE
92	CN 0010225	1	CONNECTOR, CABLE-FEMALE
91	NC 001088401	.04	ADHESIVE, LOCTITE #222
90	GE 0010884	.22	SILICONE
89	SG 000499049	1	COVER, END
88	SG 0000530	1	GEAR
87	MS 0303514	4	M5 SCREW, BUTT HD x 8mm
86	SG 001011590	1	COVER, TOP
85	SG 000499037	1	DUCT, END WORKING ASSEMBL
84	MS 0103615	5	M6 SCREW, SKHD CP x 10mm
82	SG 001021523	1	COVER, SUB SPINDLE
80	CSB001132002	1	BLOCK, PLATE ADJUSTING
79	SG 0007861	1	ADAPTER PLATE, SUB-SPINDL
78	SGB001197604	1	STOP, X-AXIS
77	SG 0010224	1	SWITCH, AIR CYLINDER
76	CS 000323001	4	WASHER, TS BASE
75	SG 001162304	1	CABLE CARRIER, GORETUBE
74	MS 0103616	6	M6 SCREW, SKHD CP x 12mm
73	MW 0103610	19	M6 WASHER, FLAT
72	MS 0103617	8	M6 SCREW, SKHD CP x 16mm
71	CN 001119815	3.8	GASKET, TRIM
70	SG 002011554	1	COVER, QUICK REMOVAL
69	MS 0303616	8	M6 SCREW, BUTT HD x 12mm
68	MW 0263610	4	M6 WASHER, STAR
67	SG 002011601	1	GASKET, HOUSING-BOTTOM LE
66	SG 001011697	1	GASKET, COVER PLATE
65	SG 002011557	1	COVER PLATE, BELLOWS
64	MS 0303516	3	M5 SCREW, BUTT HD x 12mm
63	SG 001011696	1	GASKET, AIR CYLINDER
62	SG 001011695	1	GASKET, END COVER
61	SG 002011559	1	COVER, END
60	MS 0303515	41	M5 SCREW, BUTT HD x 10mm
59	SGB002011558	1	COVER, UPPER
ITEM	PART NUMBER	QTY	DESCRIPTION

58	SG 001011699	1	GASKET, HOUSING-SIDE LEG
57	3 001088401	.5	3M ADHESIVE, WEATHERSTRIP
56	SGA001011698	1	GASKET, HOUSING-TOP LEG
55	SG 0009001	1	SHIM, SUB-SPINDLE
54	MS 0104226	1	M12 SCREW, SKHD CP x 60mm
53	RF 0010994	.01	M55 GREASE
52	MW 0263510	48	M5 WASHER, STAR
51	CL 0002024	2	PIN, DOWEL
50	SB 000733501	1	SPRING
49	SG 000199105	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	SG 000987301	1	PLUNGER
44	MS 0103416	4	M4 SCREW, SKHD CP x 12mm
43	MW 0193410	4	M4 WASHER, LOCK
42	SG 0011776 L	1	HOUSING, LOCKING
41	SG 0011052	1	PIVOT
40	SG 0011304	1	SLEEVE, ECCENTRIC
38	SG 0004938	1	WASHER, ECCENTRIC SLEEVE
37	MS 0103516	9	M5 SCREW, SKHD CP x 12mm
36	MW 0193510	6	M5 WASHER, LOCK
35	MW 0103510	6	M5 WASHER, FLAT
34	SG 000399070	1	BRACKET, ROTARY UNION
33	MS 0104021	4	M10 SCREW, SKHD CP x 35mm
32	MW 0194010	4	M10 WASHER, LOCK
31	MW 0104010 H	4	M10 WASHER, FLAT-HARDENED
30	SGB000199109	1	PLATE, MOTOR
29	HG 0007007	12.38	TUBING
28	MN 0113510	1	M5 NUT, HEX
27	MS 0496016	1	M5 SCREW, SHOULDER SKHD
26	MW 0194210	1	M12 WASHER, SQUARE LOCK S
25	MS 0103820	4	M8 SCREW, SKHD CP x 30mm
24	MN 0113810	1	M8 NUT, HEX
23	MS 0103822	3	M8 SCREW, SKHD CP x 40mm
22	3750001467	1	PLUG, PIPE 3/8 NPT
21	CLA000317709	1	PULLEY ASSEMBLY
20	SG 0010389	1	SLEEVE, CLAMPING
19	SGA000334605	1	BELT, 2nd OP SPINDLE
18	SGB000805004	1	SCRAPER
17	SG 000493701	2	CLIP
16	16 0012021	2	RETAINING WIRE
15	MS 0103618	8	M6 SCREW, SKHD CP x 20mm
14	MW 0193610	27	M6 WASHER, LOCK
13	SG 0002917	1	CYLINDER, AIR
12	SG 0004091	1	PILOT, AIR CYLINDER
11	SG 0001424	1	PUSHER, AIR CYLINDER
10	0100110	4	#6-32 SCREW, SKHD CP x .6
9	RF 001078601	2	FITTING
8	SG 000399071	1	BRACKET, AIR CYLINDER
7	MS 0103818	4	M8 SCREW, SKHD CP x 20mm
6	MW 0193810	8	M8 WASHER, LOCK
5	CS 001088404	.1	ADHESIVE, BLACK INSTANT
4	CS 0011032	12	CLIP, NYLON ARROW
3	SGA000691602	1	BUMPER
2	SGA00000601	1	COLLET CLOSER ASSEMBLY
1	SGA00002632N	1	2nd OP, SPINDLE SUB-ASSY
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
T-42 SUB SPINDLE ASSEMBLY
1.6 OPTION BALL SCREW ACTUATED

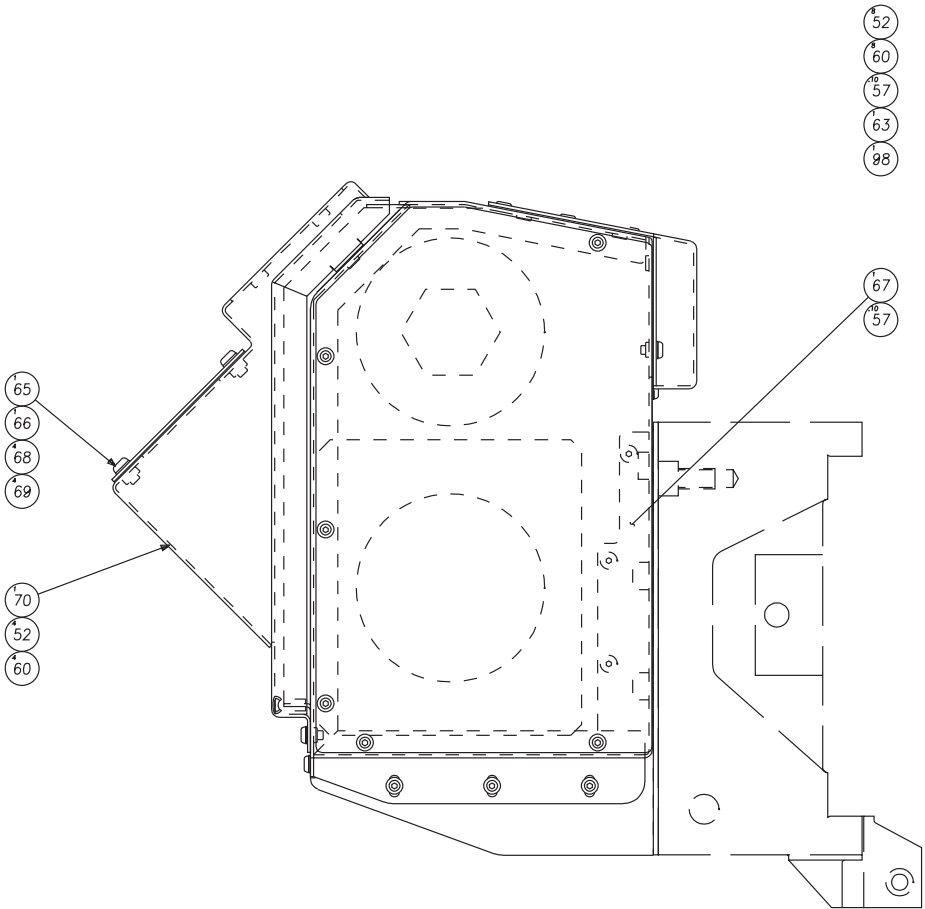
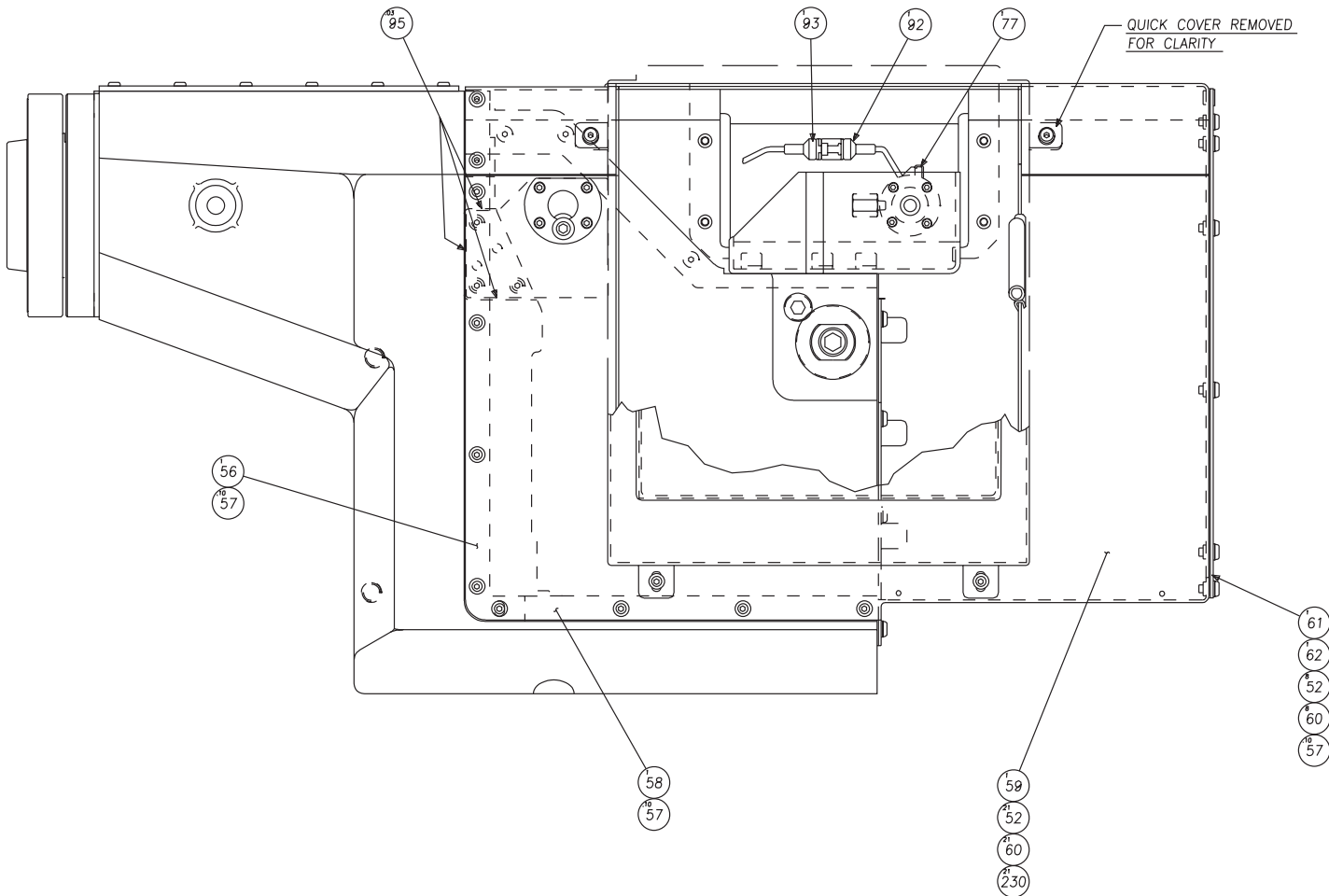
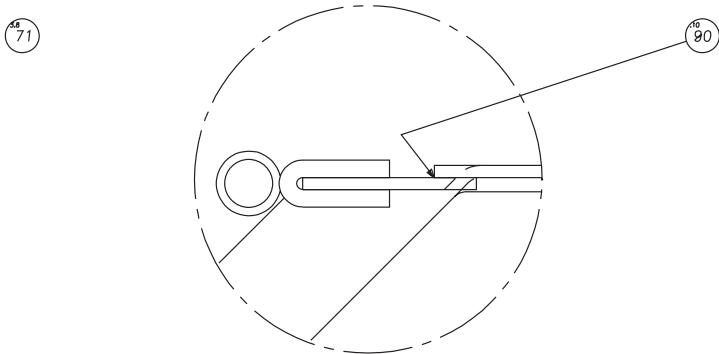
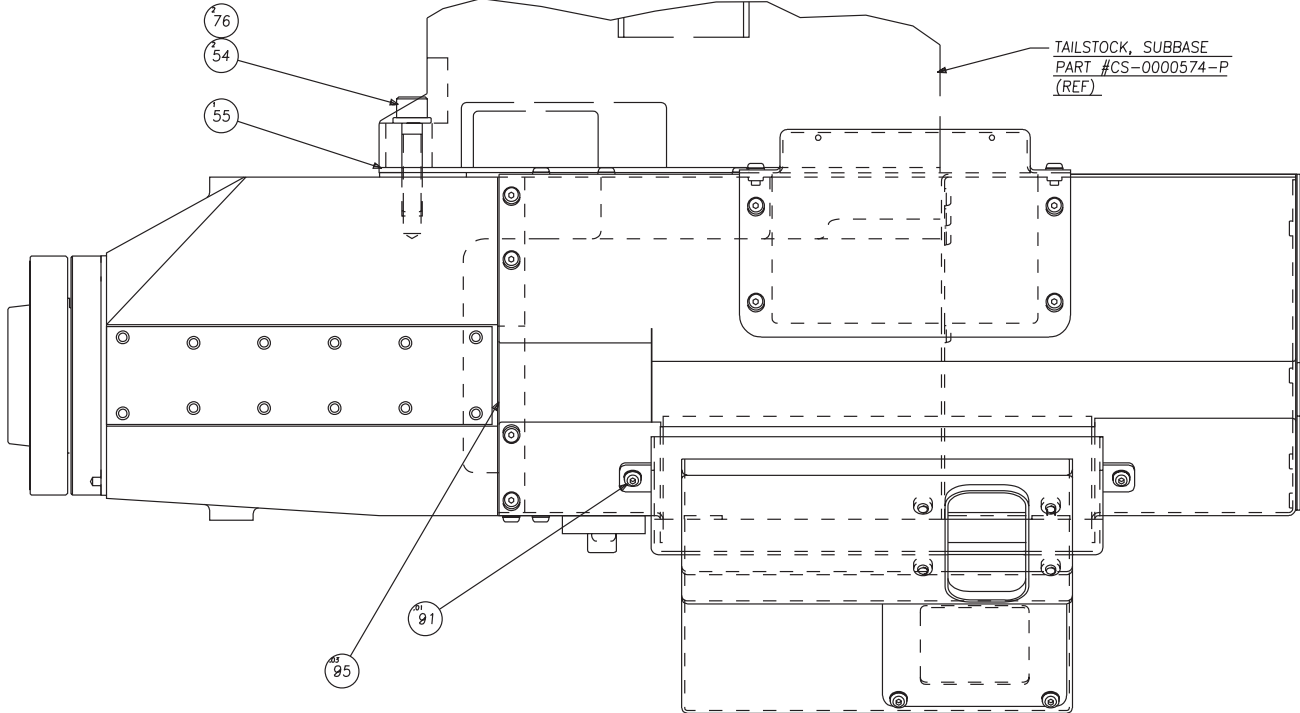
PART NUMBER
SG 000004LABS
SHEET 4 of 4

Sub-Spindle Assembly, Hydraulic, Unique Components



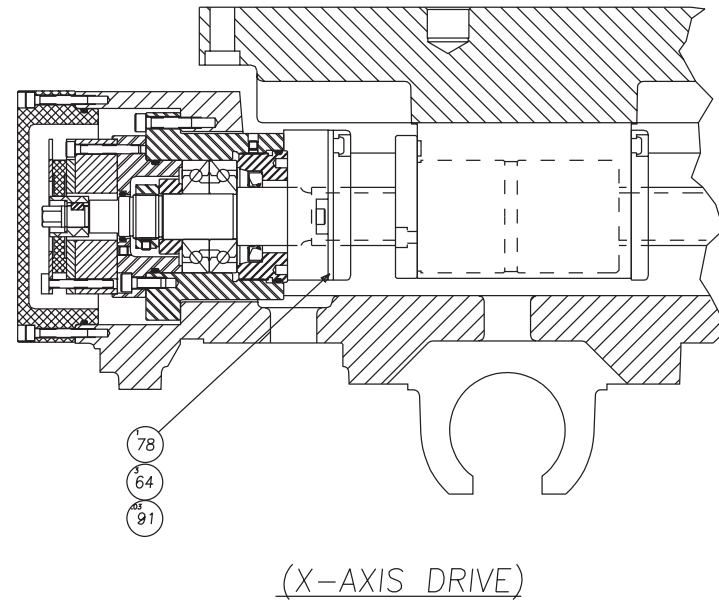
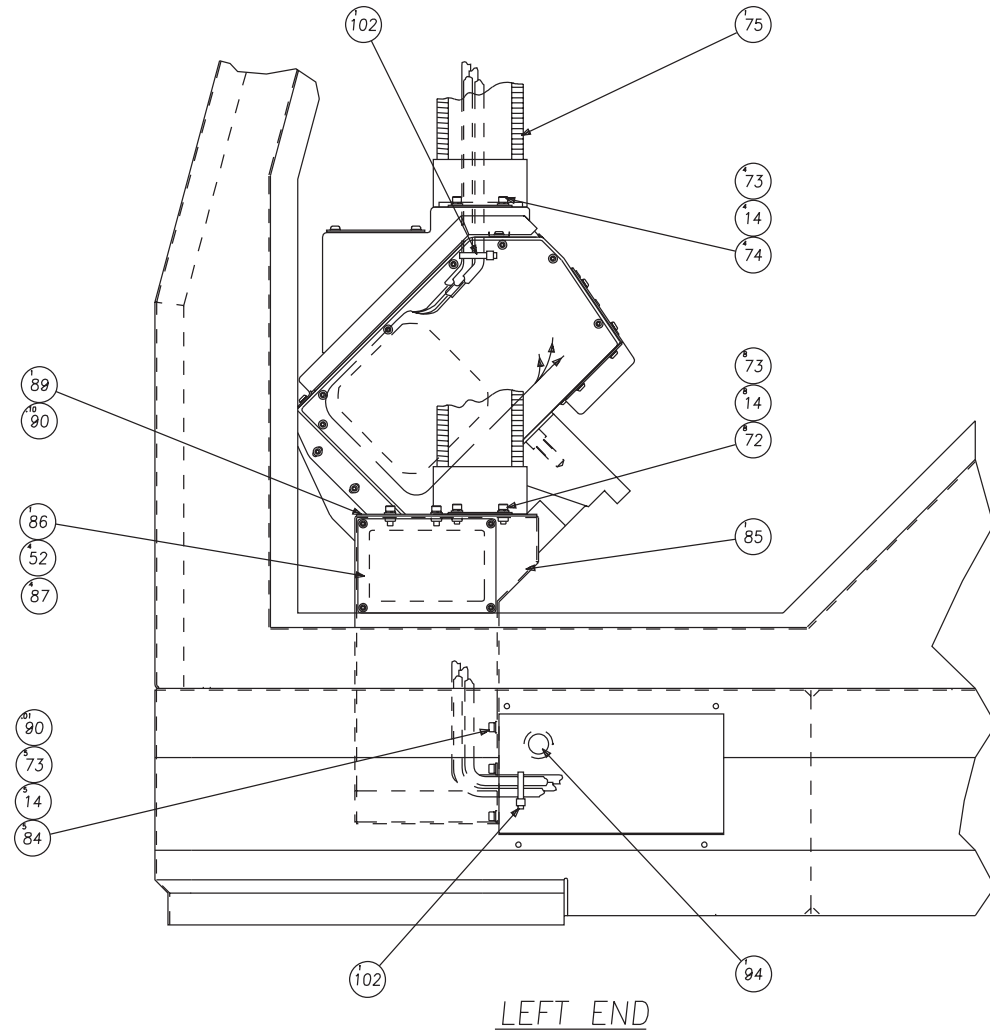
NAME: SUB-SPINDLE ASSEMBLY HYDRAULIC APPLICATION
 PART NUMBER: SG 000004HY
 SHEET: 1 of 4

Sub-Spindle Assembly, Hydraulic, Unique Components



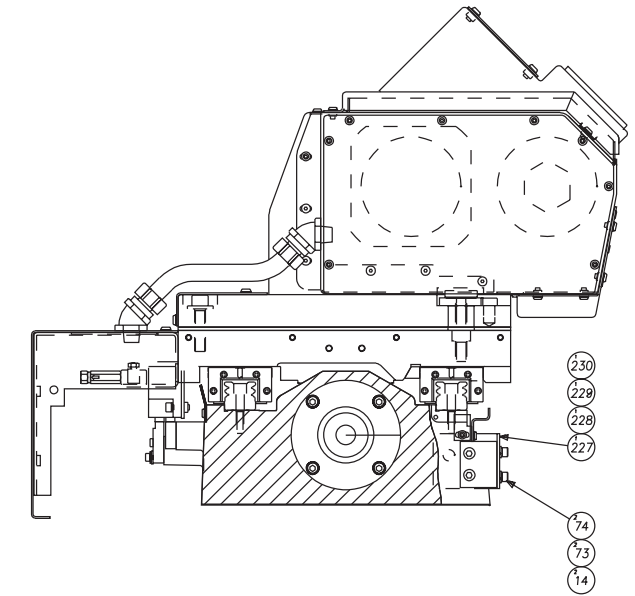
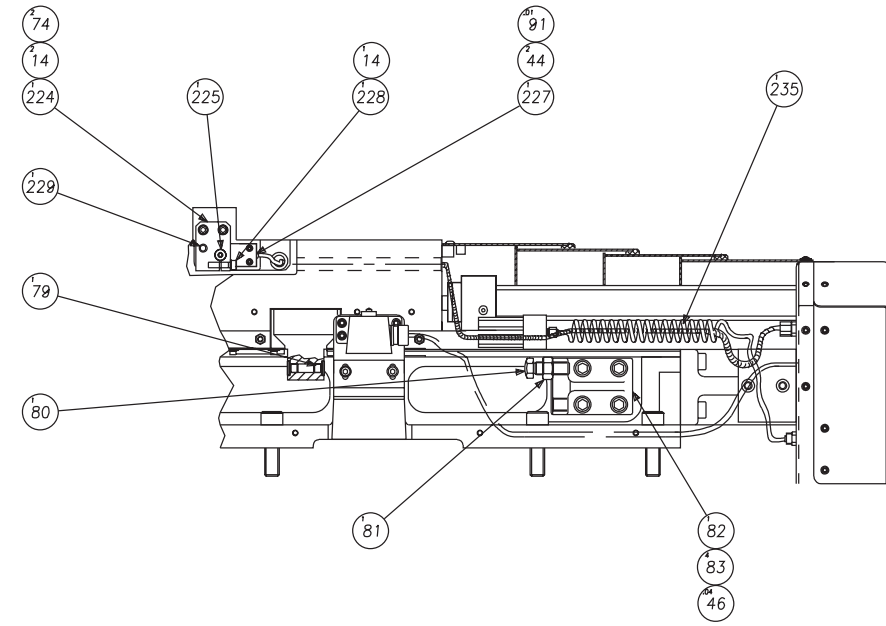
NAME: SUB-SPINDLE ASSEMBLY HYDRAULIC APPLICATION
 PART NUMBER: SG-0000004-HY
 SHEET: 2 of 4

Sub-Spindle Assembly, Hydraulic, Unique Components



NOT SHOWN:

- | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 226 | 200 | 201 | 202 | 203 | 204 | 205 | 206 | 207 | 208 | 209 | 210 | 211 | 212 |
| 213 | 214 | 215 | 216 | 217 | 218 | 219 | 220 | 221 | 222 | 223 | | | |
| 9 | 69 | 90 | 106 | 108 | | | | | | | | | |



NAME	PART NUMBER
SUB-SPINDLE ASSEMBLY	SG-0000004-HY
HYDRAULIC APPLICATION	SHEET 3 of 4

Sub-Spindle Assembly, Hydraulic, Unique Components

235	CS-0011780-01	1	SPRING, CONT. LENGTH
231	MW-0183610	8	M6 WASHER, LOCK
230	MD-0003623-B	21	FLAT WASHER-(BLACK)
230	MW-0104210	1	M12 WASHER, FLAT
229	MW-0184210	1	M12 WASHER, LOCK
229	MS-0573819	1	SCREW, SOC.SET M8
228	MS-0103619	1	M6 SCREW, SKHD CP X 25mm
228	MS-0104216	1	M12 SCREW, SKHD CP x 12mm
227	SG-0001890-13	1	BRACE
227	CL-0010224-03	1	SWITCH,PROXIMITY
226	CL-0011452-02	2	FLOW CONTROL VALVE
225	CL-0011108	1	BUTTON, ACTUATOR
224	CL-0011292	1	ACTUATOR, SWITCH
223	F3-0009977-01	1	TAG, ID
222	LO-0002637	1	LAYOUT, TAG SG
221	FR-0007702	1	CONNECTOR, BULKHEAD
220	FR-0007702-04	1	CONNECTRO ST. MALE
219	MS-0303618	2	SCREW, BT HD M6X1.0X20MM
218	CSA-0010234-09	1	VALVE ASSY
217	F3-0009977	1	LABEL
216	CL-0009938	8	SLEEVE
215	SB-0006966	5	TY-RAP
214	KH-0011335	1	MUFFLER
213	SG-0004990-64	1	BRACKET
212	MN-0283610	2	NUT
211	EF-0009886	2	NUT
210	CT-0009181	4	WASHER, LOCK
209	MW-0103310	4	WASHER, FLAT REG. M3
208	0100012	2	#4-40 BT HD SCREW
207	SG-0002917-02	1	CYLINDER, FLAT
ITEM	PART NUMBER	QTY	DESCRIPTION

206	SG-0002990-52	1	DEFLECTOR, COOLANT RING
205	LO-0002685	1	LAYOUT, SAFETY CYLINDER
204	SG-0002321-04	1	GAGE, 2ND OP TOOL
203	SG-0008168-A	1	HANDLE ASSY
202	22A-0003011-03	1	CABLE 22AWG 3 COND.
201	CS-0003230-03	1	WASHER
200	SG-0010190-09	3	STANDOFF, COLLET CLOSER
108	AH-0007007-NF	3	TUBING, 1/2 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	2	TY-WRAP
101	LT-0010884-S	0	SEALANT, PIPE
100	HG-0007702	1	FITTING, PRESS LOCK STR.
99	VS-0010440	0	ANTI-SIEZE
98	SG-0020115-63	1	COVER, AIR CYLINDER
97	MS-0104220	1	M12 SCREW, SKHD CP X 40mm
96	SG-0010115-SS	1	COVER, SUB RAPID DOG
95	HG-0010884	0	PERMATEX, ULTRA-BLUE
94	CK-0010331-01	1	PLUG
93	CN-0012042-42	1	CONNECTOR, CABLE-MALE
92	CN-0010225	1	CONNECTOR, CABLE-FEMALE
91	NC-0010884-01	0	ADHESIVE, LOCTITE #222
90	GE-0010884	0	SILICONE
89	SG-0004990-49	1	COVER, END
88	SG-0000530	1	GEAR
87	MS-0303514	4	M5 SCREW, BUTT HD x 8mm
86	SG-0010115-90	1	COVER, TOP
85	SG-0004990-37	1	DUCT, END WORKING ASSEMBL
84	MS-0103615	5	M6 SCREW, SKHD CP x 10mm
83	MS-0104221	4	M12 SCREW, SKHD CP x 35mm
82	CSA-0007839-08	1	BRACKET, STOP
81	MN-0114410	1	M14 NUT, HEX
80	CSA-0000580-02	1	BOLT, STOP
79	RH-0007491-06	1	BUTTON, STOP
78	SGA-0011976-04	1	STOP, X-AXIS
77	SG-0010224	1	SWITCH, AIR CYLINDER
76	CS-0003230-01	3	WASHER, TS BASE
75	SG-0011623-04	1	CABLE CARRIER, GORETUBE
74	MS-0103616	8	M6 SCREW, SKHD CP x 12mm
73	MW-0103610	19	M6 WASHER, FLAT
72	MS-0103617	8	M6 SCREW, SKHD CP x 16mm
71	CN-0011198-15	4	GASKET, TRIM
70	SG-0020115-54	1	COVER, QUICK REMOVAL
69	MS-0303616	8	M6 SCREW, BUTT HD x 12mm
68	MW-0263610	4	M6 WASHER, STAR
67	SG-0020116-01	1	GASKET, HOUSING-BOTTOM LE
66	SG-0010116-97	1	GASKET, COVER PLATE
65	SG-0020115-57	1	COVER PLATE, BELLOWS
64	MS-0303516	3	M5 SCREW, BUTT HD x 12mm
63	SG-0010116-96	1	GASKET, AIR CYLINDER
62	SG-0010116-95	1	GASKET, END COVER
61	SG-0020115-59	1	COVER, END
60	MS-0303515	41	M5 SCREW, BUTT HD x 10mm
59	SGB-0020115-58	1	COVER, HOUSING
ITEM	PART NUMBER	QTY	DESCRIPTION

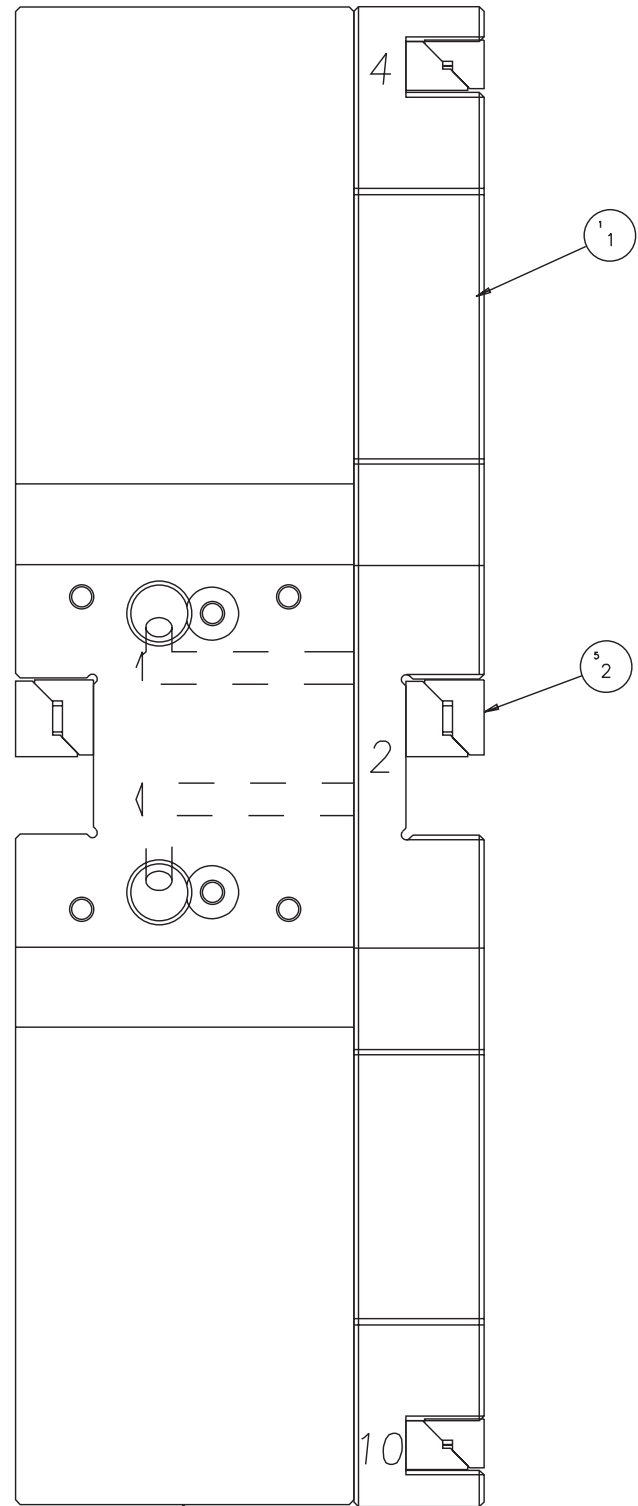
58	SG-0010116-99	1	GASKET, HOUSING-SIDE LEG
57	3-0010884-01	0	3M ADHESIVE, WEATHERSTRIP
56	SGA-0010116-98	1	GASKET, HOUSING-TOP LEG
55	CS-0009001-02	1	SHIM, TAILSTOCK
54	MS-0104225	2	M12 SCREW, SKHD CP x 55mm
53	RF-0010994	0	M55 GREASE
52	MW-0263510	48	M5 WASHER, STAR
51	CL-0002024	2	PIN, DOWEL
50	SB-0007335-01	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	0	ADHESIVE, LOCTITE #242
45	SG-0009873-01	1	PLUNGER
44	MS-0103417	6	M4 SCREW, SKHD CP x 16mm
43	MW-0193410	4	M4 WASHER, LOCK
42	SG-0011776-L	1	HOUSING, LOCKING
41	CL-0011052	1	PIVOT
40	CSA-0011304-01	1	SLEEVE, ECCENTRIC
38	SG-0004938	1	WASHER, ECCENTRIC SLEEVE
37	MS-0103516	5	M5 SCREW, SKHD CP x 12mm
36	MW-0193510	2	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	4	M10 WASHER, LOCK
31	MW-0104010-H	4	M10 WASHER, FLAT-HARDENED
30	SG-0001991-09	1	PLATE, MOTOR
29	HG-0007007	12	TUBING
28	MN-0113510	1	M5 NUT, HEX
27	MS-0496016	1	M5 SCREW, SHOULDER SKHD
26	MW-0194210	1	M12 WASHER, LOCK
25	MS-0103820	4	M8 SCREW, SKHD CP x 30mm
24	MN-0113810	1	M8 NUT, HEX
23	MS-0103822	1	M8 SCREW, SKHD CP x 40mm
22	375-0001467	1	PLUG, PIPE 3/8 NPT
21	SG-0003177-A	1	PULLEY ASSEMBLY
20	SG-0010389	1	SLEEVE, CLAMPING
19	SG-0003346-05	1	BELT, 2nd OP SPINDLE
18	SGB-0008050-04	1	SCRAPER
17	SG-0004937-01	2	CLIP
16	16-0012021	2	RETAINING WIRE
15	MS-0153618	8	M6 SCREW, HEX HD x 20mm
14	MW-0193610	22	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	SG-0003990-71	1	BRACKET, AIR CYLINDER
7	MS-0103818	4	M8 SCREW, SKHD CP x 20mm
6	MW-0193810	8	M8 WASHER, LOCK
5	CS-0010884-04	0	ADHESIVE, BLACK INSTANT
4	CS-0011032	12	CLIP, NYLON ARROW
3	SGA-0006916-02	1	BUMPER
2	SG-000006-01	1	COLLET CLOSER ASSEMBLY
1	SG-0000263-2N	1	2nd OP, SPINDLE SUB-ASSY
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
 SUB-SPINDLE ASSEMBLY
 HYDRAULIC APPLICATION

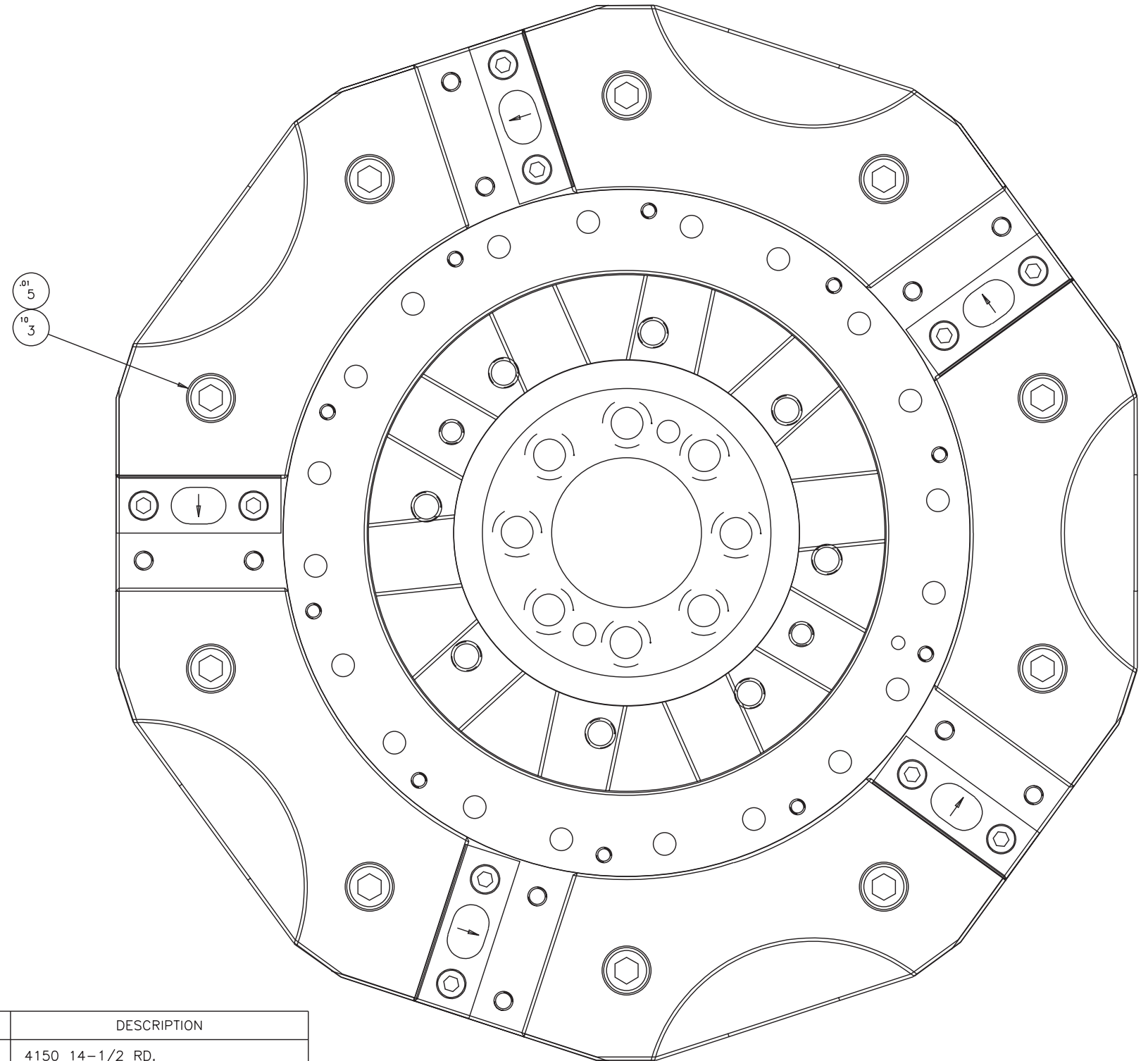
PART NUMBER
 SG-0000004-HY

SHEET 4 of 4

Sub-Spindle Tool Plate Assembly, English, 10 Station



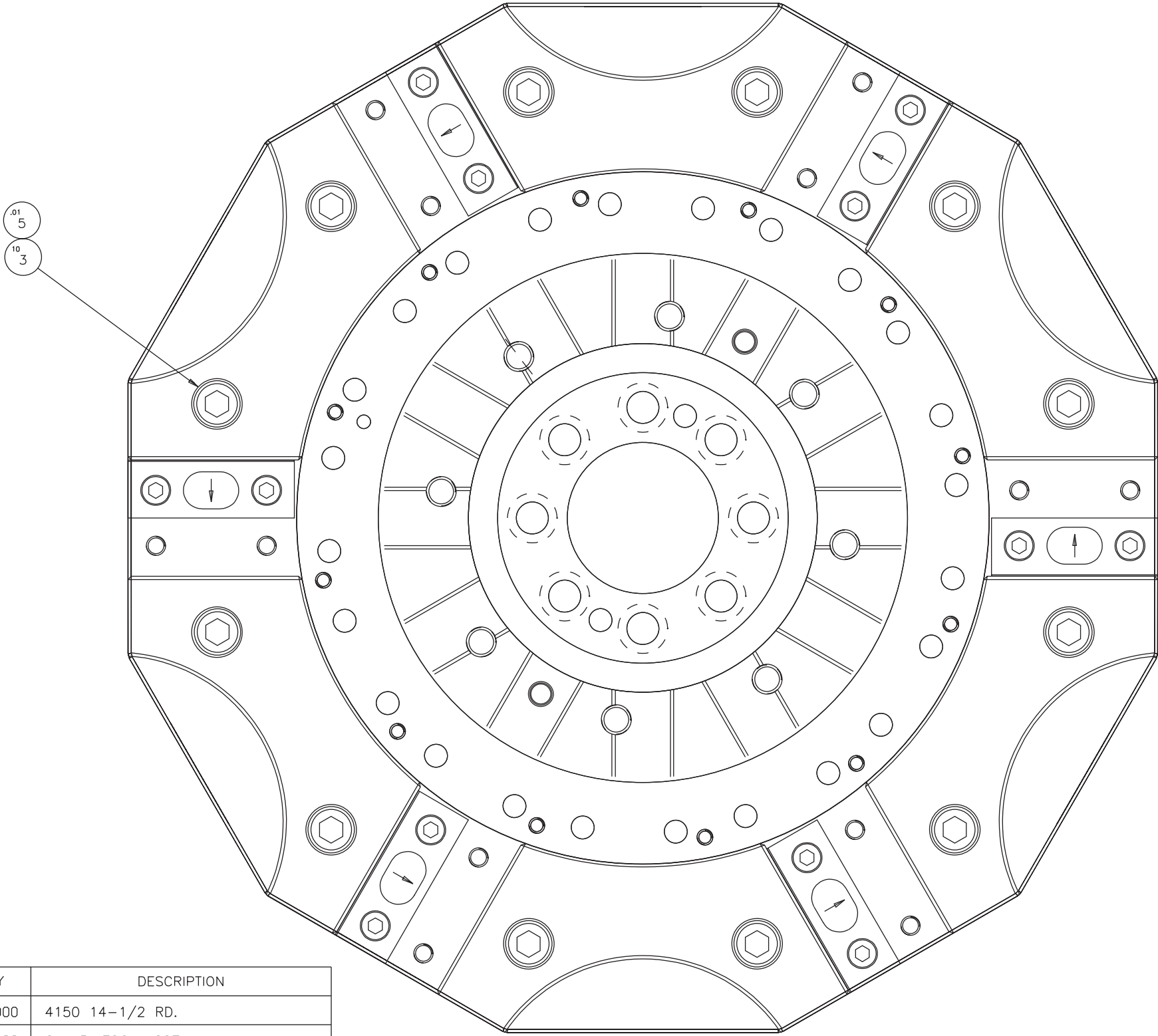
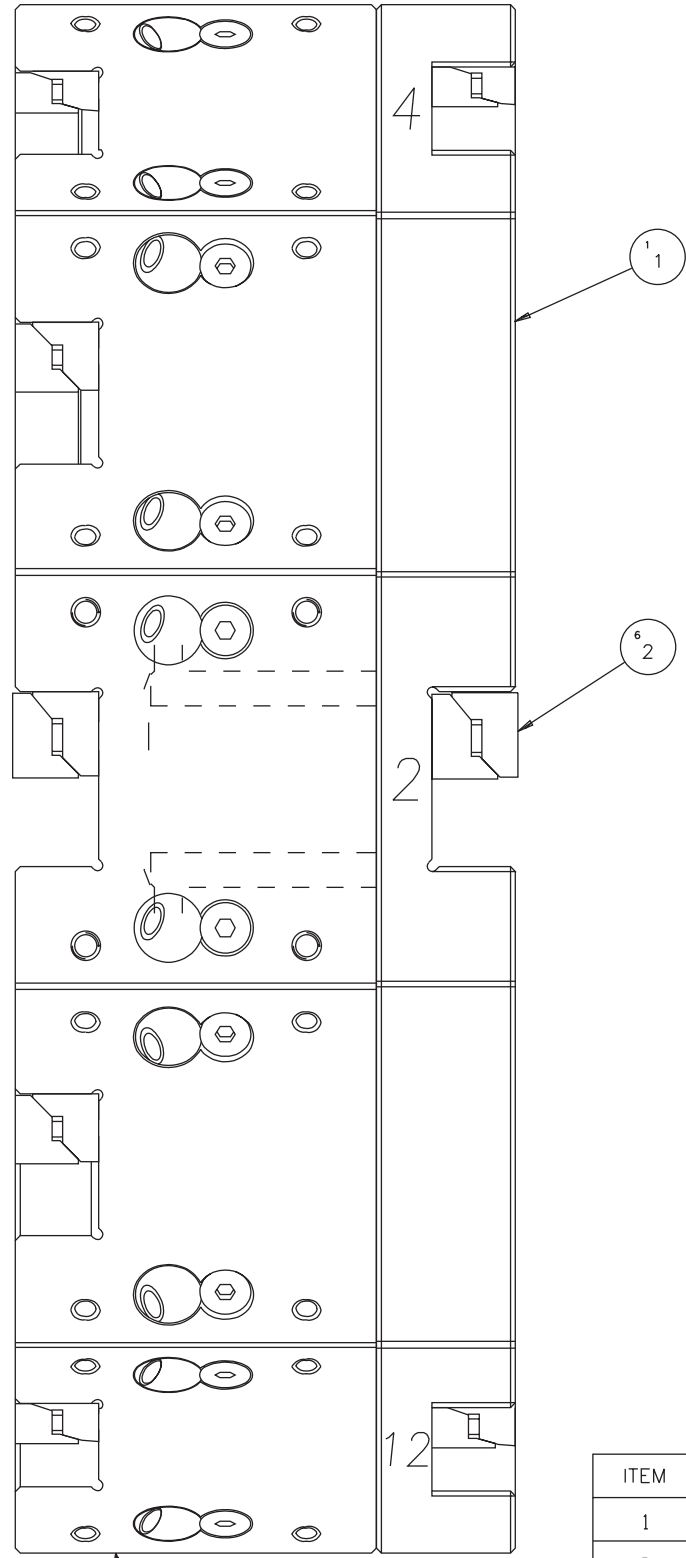
TOP PLATE ASSEMBLY
SG-0007214-E1



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	1005265	1.000	4150 14-1/2 RD.
2	SG 0011944C1	5.000	CLAMP, TOOL ASSEM
3	MS 0104021	10.000	M10-1.50 x 35 SHCS
4	RF 0011971	1.000	BAG, MAIL
5	NC 0010884	0.010	LOCTITE 242

NAME
TOOL PLATE ASSEMBLY 10 STATION
(ENGLISH)

PART NUMBER
SG 001194410
SHEET 2 of 2

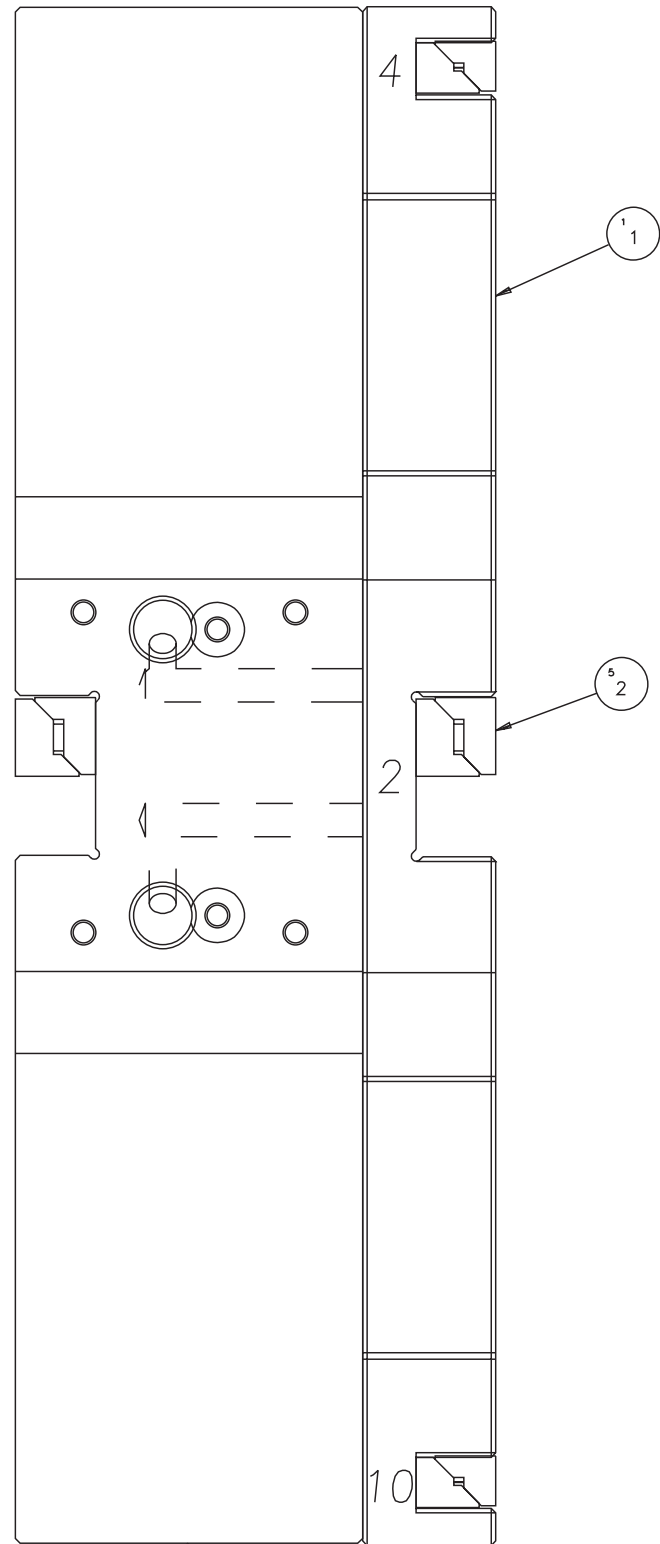


ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	1005265	1.000	4150 14-1/2 RD.
2	SG 0011944C1	6.000	CLAMP, TOOL ASSEM
3	MS 0104021	10.000	M10-1.50 x 35 SHCS
4	RF 0011971	1.000	BAG, MAIL
5	NC 0010884	0.010	LOCTITE 242

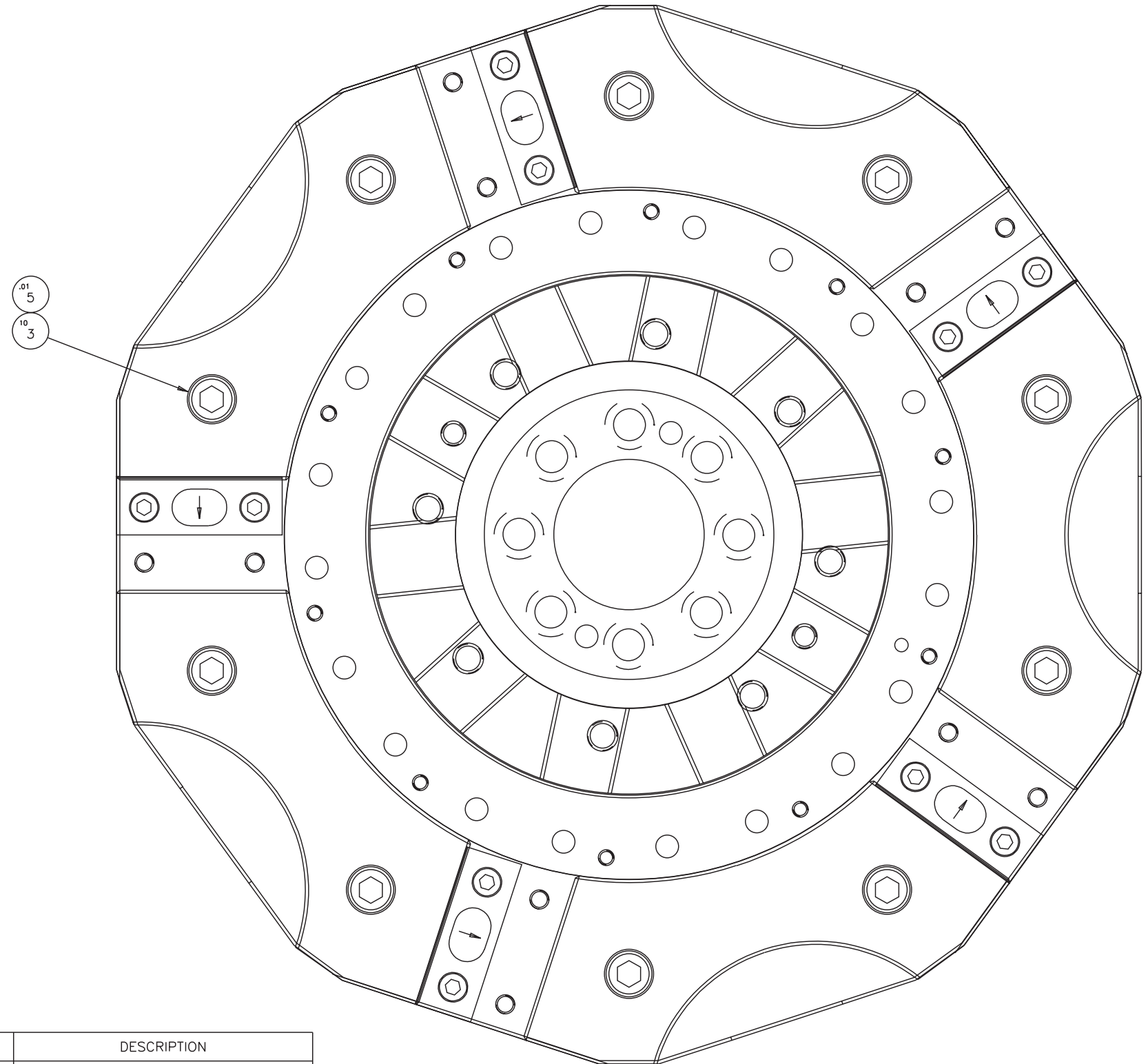
NAME
TOOL PLATE ASSEMBLY 12 STATION
(ENGLISH)

PART NUMBER
SG 001194412
SHEET 2 of 2

Sub-Spindle Tool Plate Assembly, Metric, 10 Station



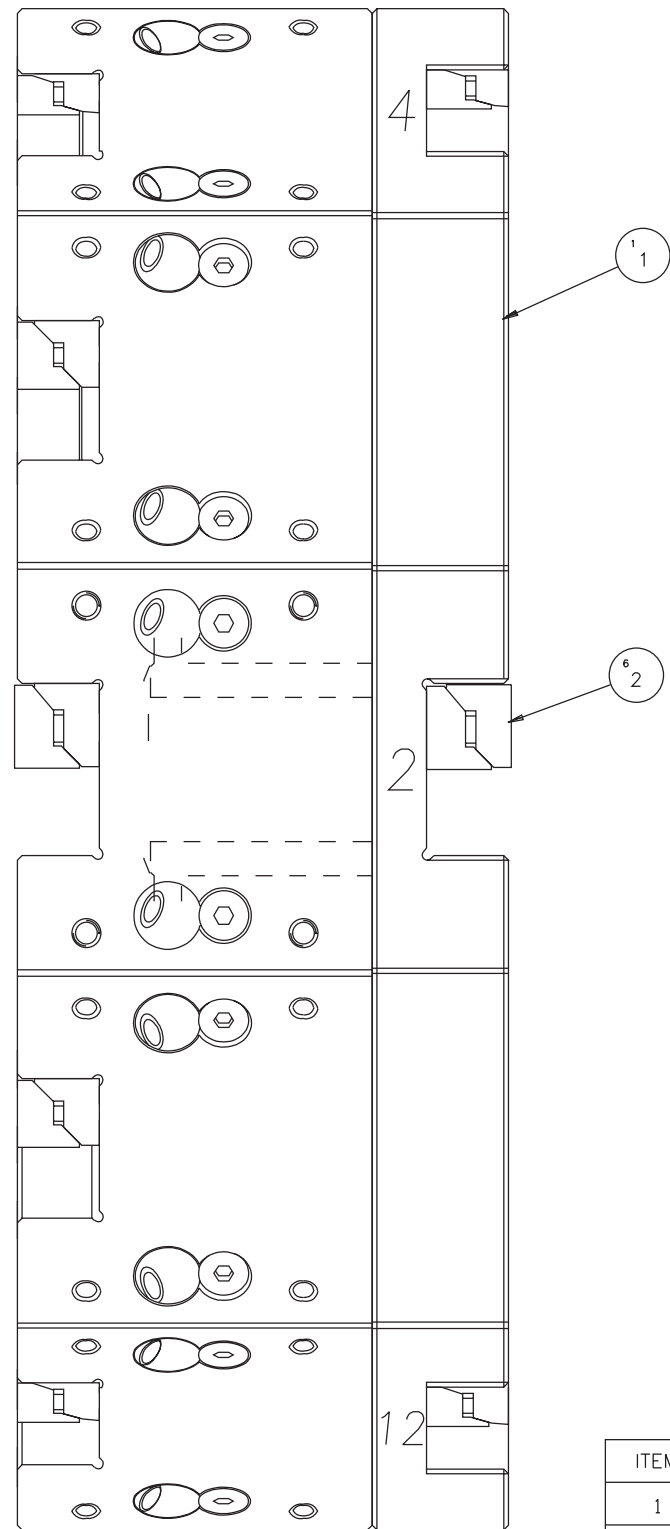
TOP PLATE ASSEMBLY
SG-0007214-E1



ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	1005265	1.000	4150 14-1/2 RD.
2	SG 0011944CM	5.000	CLAMP, TOOL ASSEM-METRIC
3	MS 0104021	10.000	M10-1.50 x 35 SHCS
4	RF 0011971	1.000	BAG, MAIL
5	NC 0010884	0.010	LOCTITE 242

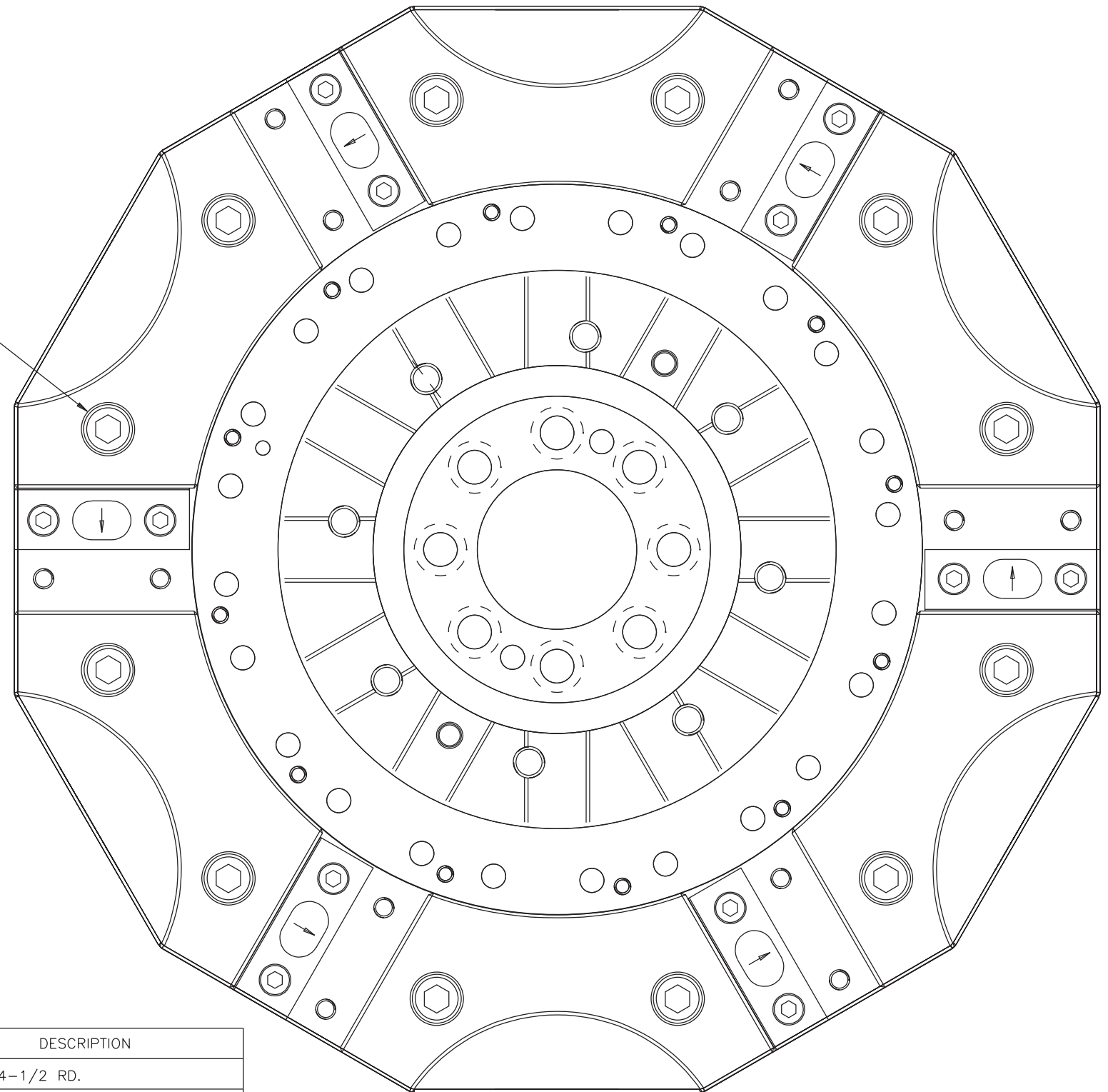
NAME
TOOL PLATE ASSEMBLY 10 STATION
(METRIC)

PART NUMBER
SG 001194410 M
SHEET 2 of 2



TOP PLATE ASSEMBLY
SG-0007214-M

.01
5
10
3



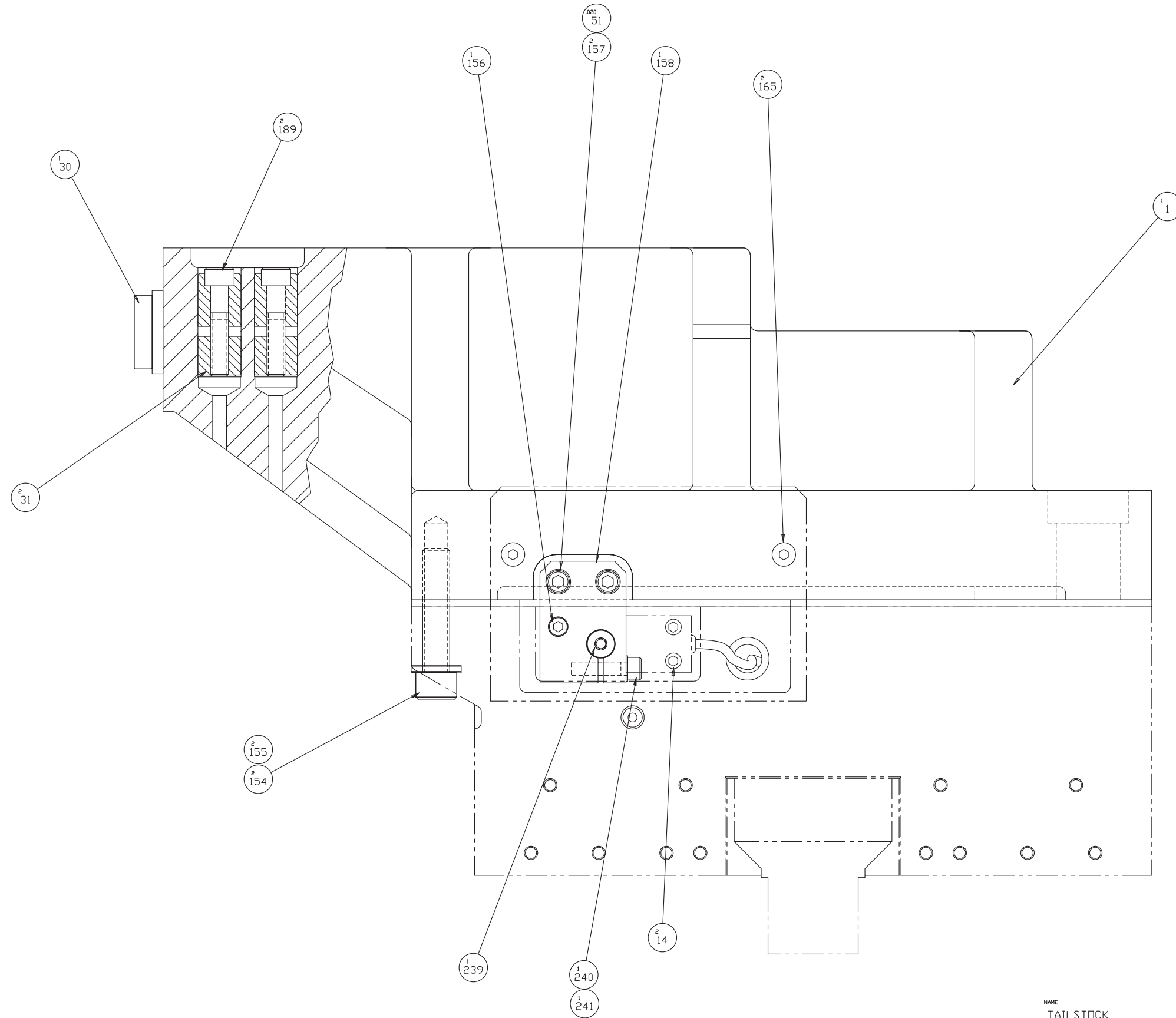
1
4

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	1005265	1.000	4150 14-1/2 RD.
2	SG 0011944CM	6.000	CLAMP, TOOL ASSEM-METRIC
3	MS 0104021	10.000	M10-1.50 x 35 SHCS
4	RF 0011971	1.000	BAG, MAIL
5	NC 0010884	0.010	LOCTITE 242

NAME
TOOL PLATE ASSEMBLY 12 STATION
(METRIC)

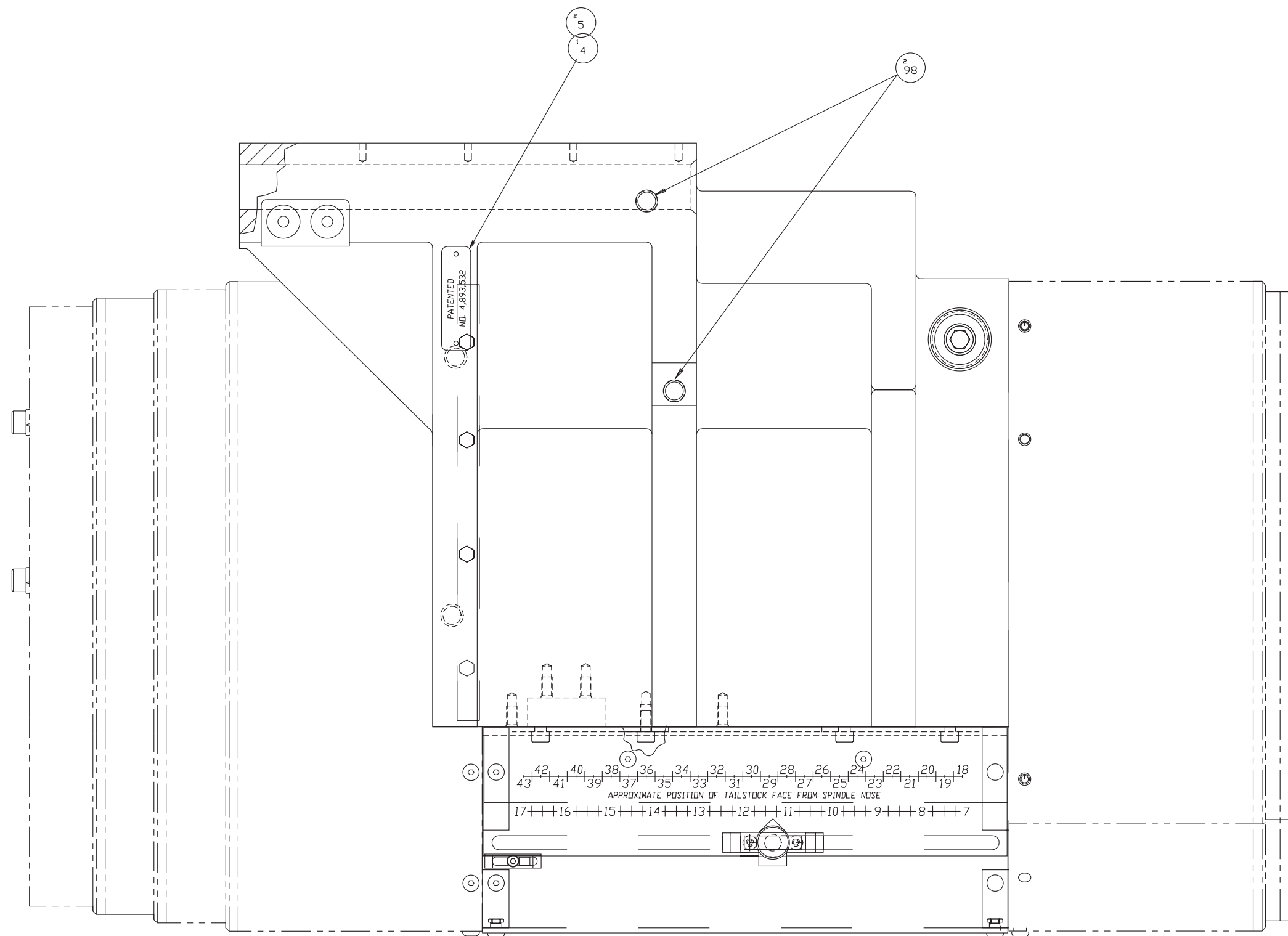
PART NUMBER
SG 001194412 M
SHEET 2 OF 2

Tailstock Assembly



NAME
TAILSTOCK
<SG>

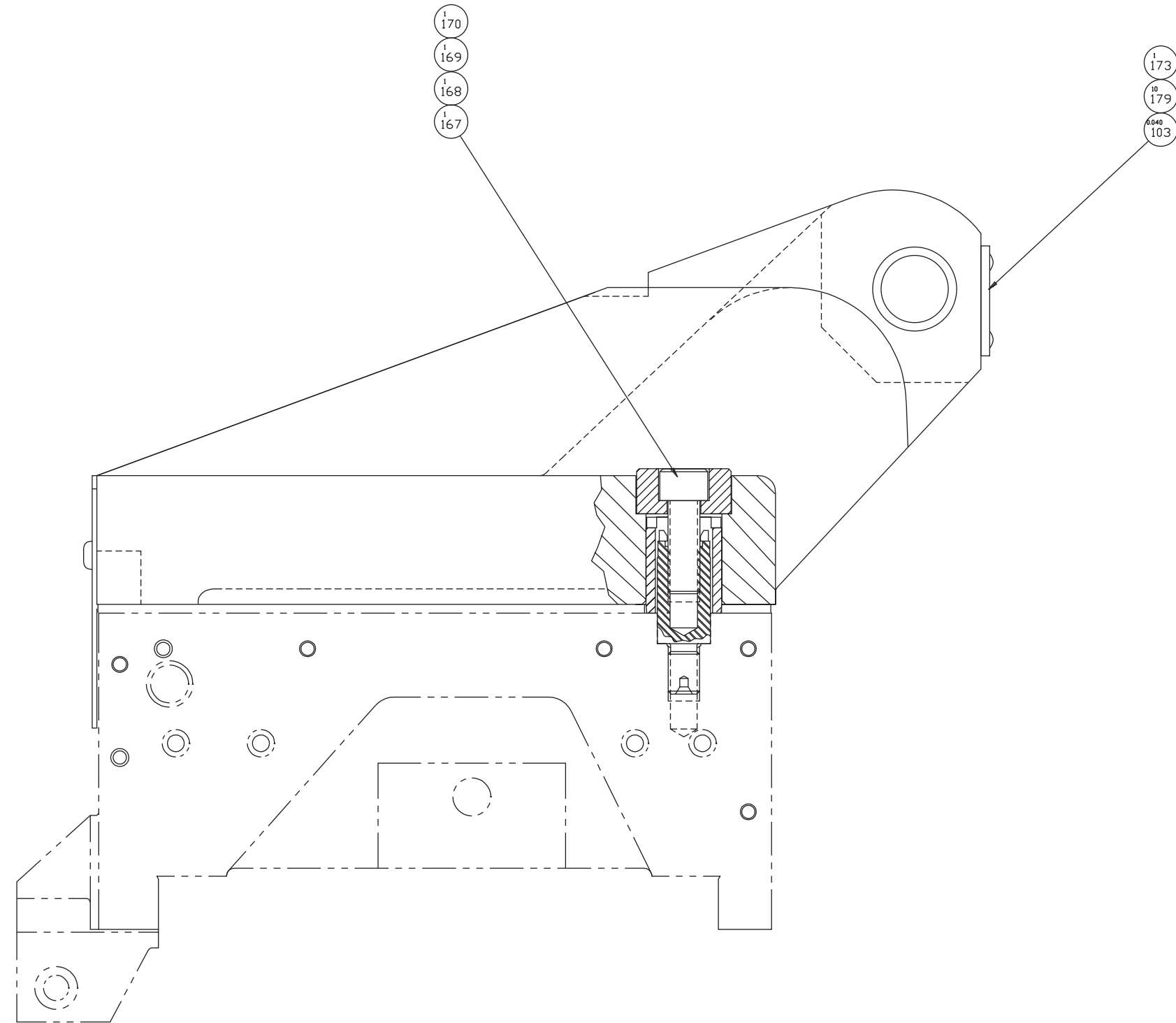
PART NUMBER
SGC0000003
SHEET 1 of 3



NAME
TAILSTOCK
(SG)

PART NUMBER
SGC0000003
SHEET 2 of 3

Tailstock Assembly



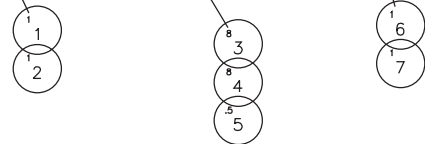
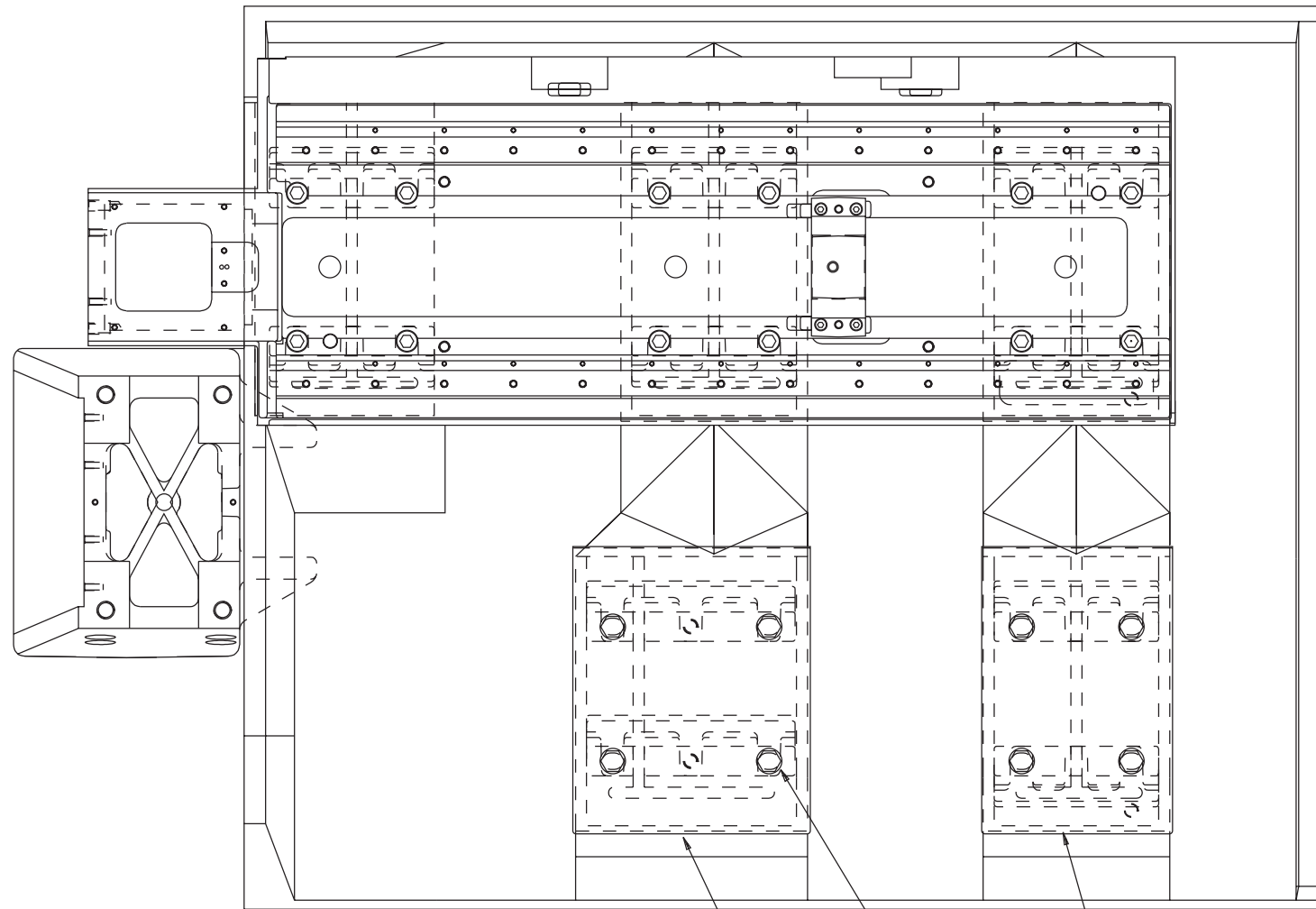
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SG 000401	1.000	TAILSTOCK,SG
4	CS 001036639	1.000	LABEL,PATENT ND
5	R 0008044	2.000	PIN ESCUTCHEDN
14	MS 0103416	2.000	SCREW, SDC HD CAP M4
15	SG 0002840	8.000	WASHER, FLAT
24	CS 001178001	1.000	SPRING, CONTINUOUS LENGTH
30	CS 0004144EB	1.000	BUSHING,ECCENTRIC
31	CSA0000635	2.000	NUT,BINDING
40	SG 001011542	1.000	COVER, LOAD METER
41	SG 0010116	1.000	GASKET, LOAD METER
42	MN 0113310	3.000	NUT, HEX
43	MW 0103310	3.000	WASHER, FLAT
44	MW 0193310	3.000	WASHER, LOCK
45	LD 0002701	1.000	INSTR. LESS LOAD METER
51	NC 0010884	0.020	LOCTITE,ADHESIVE
98	MS 0574218	2.000	SCREW, SDC SET M12X1.7
103	CS 001088404	0.040	ADHESIVE, BLACK INSTANT
154	MS 0104225	2.000	SCREW,SDC.HD.M12
155	CS 000323001	2.000	WASHER, TS BASE
156	MS 0573819	1.000	SCREW,SDC.SET M8
157	MS 0103618	2.000	SCREW,SDC.HD.CAP M6
158	CL 0011292	1.000	ACTUATOR, SWITCH
165	MS 0303615	2.000	SCREW,BT.HD M6
167	MS 0104221	1.000	M12 SCREW, SKHD CP x 35mm
168	CS 000323002	1.000	WASHER, CLAMP
169	CSA0011304	1.000	SLEEVE, ECCENTRIC
170	CL 0011052	1.000	PIVOT
173	SG 000691601	1.000	BUMPER
179	CS 0011032	10.000	CLIPS, NYLON ARROW
189	SB 0000635 S	2.000	SCREW
190	SG 001011589	1.000	COVER, SIDE
191	MS 0303515	6.000	SCREW
192	MW 0263510	5.000	WASHER
237	AH 0011508	1.000	LOCKNUT
238	50 0010226	1.000	SEAL RING
239	CL 0011108	1.000	BUTTON, ACTUATOR
240	MS 0103619	1.000	SCREW, SDC HD M6 X 25MM
241	MW 0193610	1.000	WASHER, LOCK M6
466	CN 0011508	1.000	NUT, GRIP

237 238
24 191

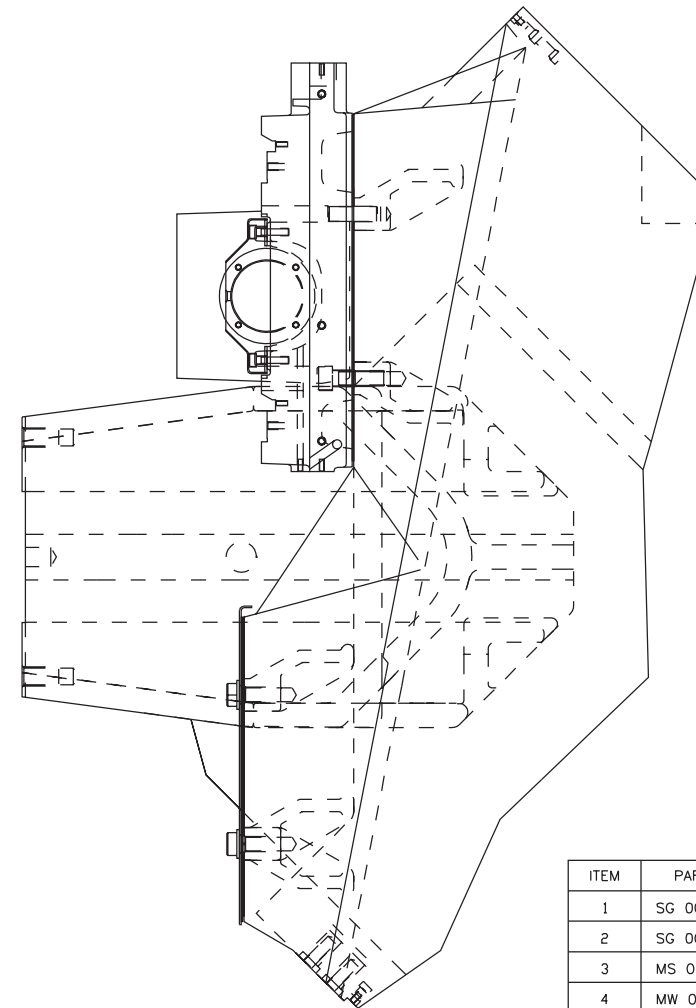
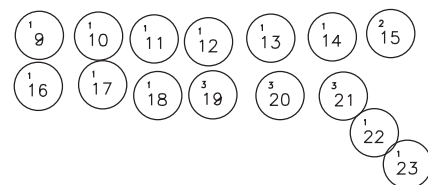
190 191 192

NOT SHOWN
40 41 42 43
46 44 45 15

NAME
TAILSTOCK
(SG)
PART NUMBER
SGC0000003
SHEET
3 of 3



NOT SHOWN

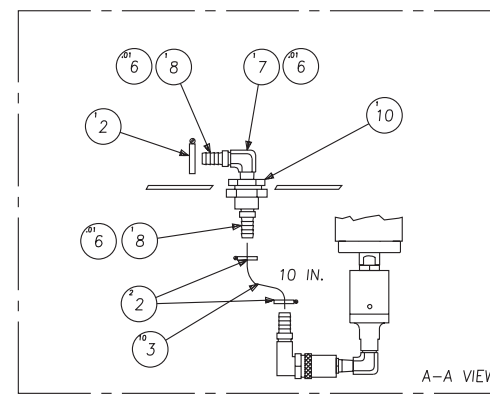
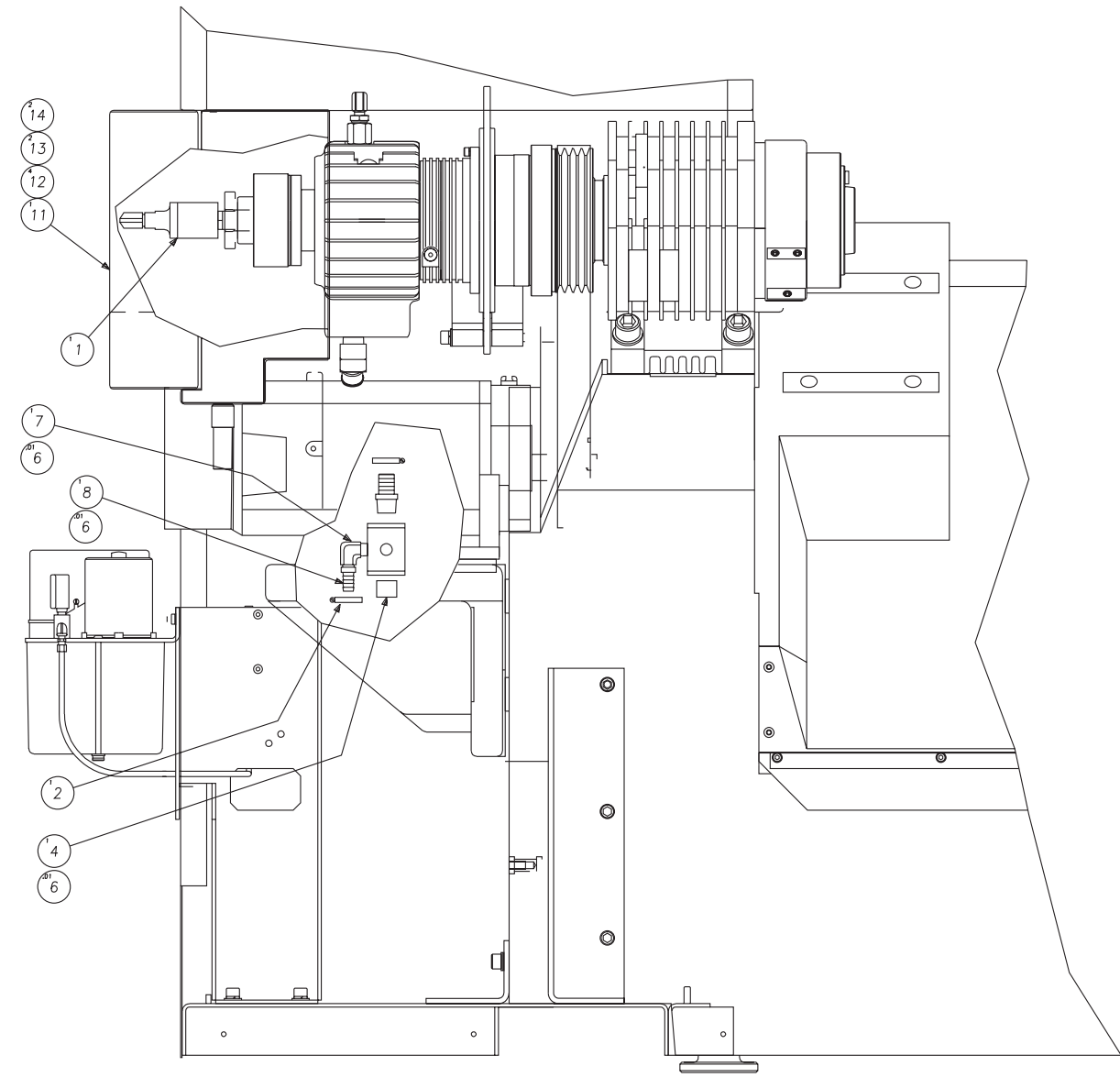
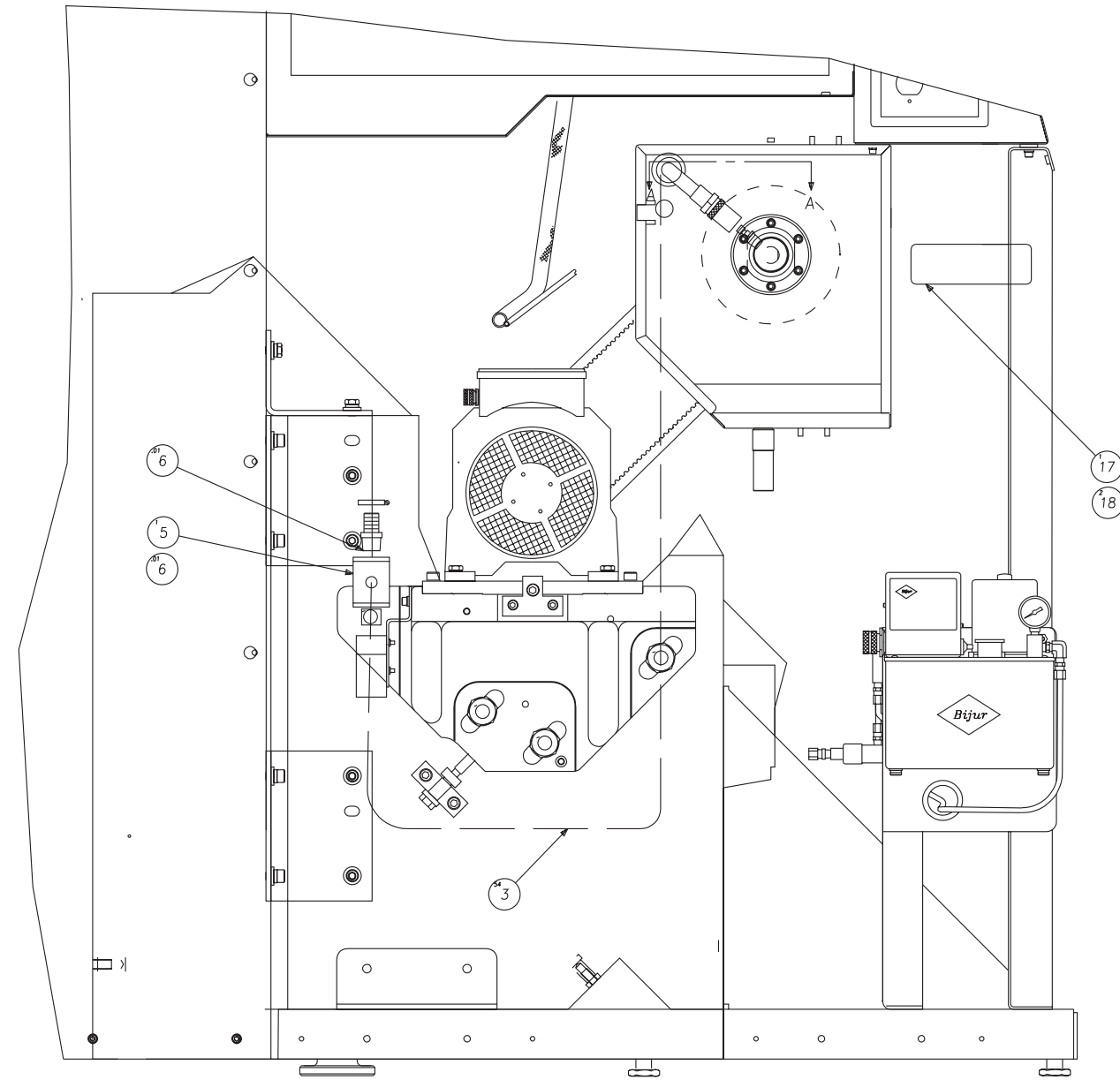


ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SG 002011537	1.000	COVER, FRONT STUMP
2	SG 001011681	1.000	GASKET, FRONT STUMP
3	MS 0154618	8.000	SCREW, HEX M16-2.0x 20
4	MW 0104610	8.000	WASHER, FLAT
5	GE 0010884	0.500	SEALANT
6	SG 002011536	1.000	COVER, REAR STUMP
7	SG 001011682	1.000	GASKET, REAR STUMP
9	LO 0002621	1.000	ASSEMBLY INSTRUCTIONS
10	SG 001011589	1.000	COVER, SKIRT END
11	SG 000490055	1.000	PLATE, HOLE CVR BKNG
12	SG 001011591	1.000	COVER, PLATE
13	5620010331	1.000	PLUG, DOT
14	75 0010331	1.000	PLUG, DOT
15	CK 001033101	2.000	PLUG, CAP 7/8
16	SG 001011542	1.000	COVER, LOAD METER
17	SG 0010116	1.000	GASKET, LOAD METER
18	MN 0113310	1.000	NUT, HEX
19	MW 0103310	3.000	WASHER, FLAT
20	MW 0103310	3.000	WASHER, LOCK
21	LO 0002701	3.000	INSTR. LESS LOAD METER
22	SG 001021517	1.000	COVER
23	SG 002011604	1.000	GASKET

NAME
BASE ASSEMBLY
LESS TAILSTOCK

PART NUMBER
SGA0000003LT
SHEET 1 OF 1

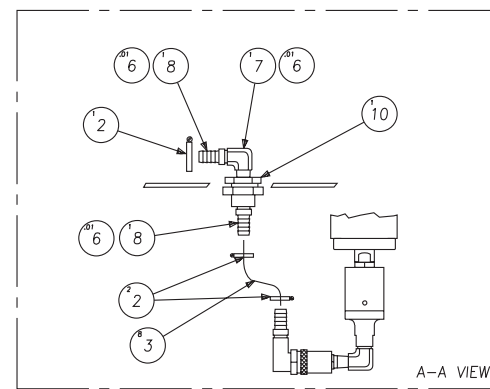
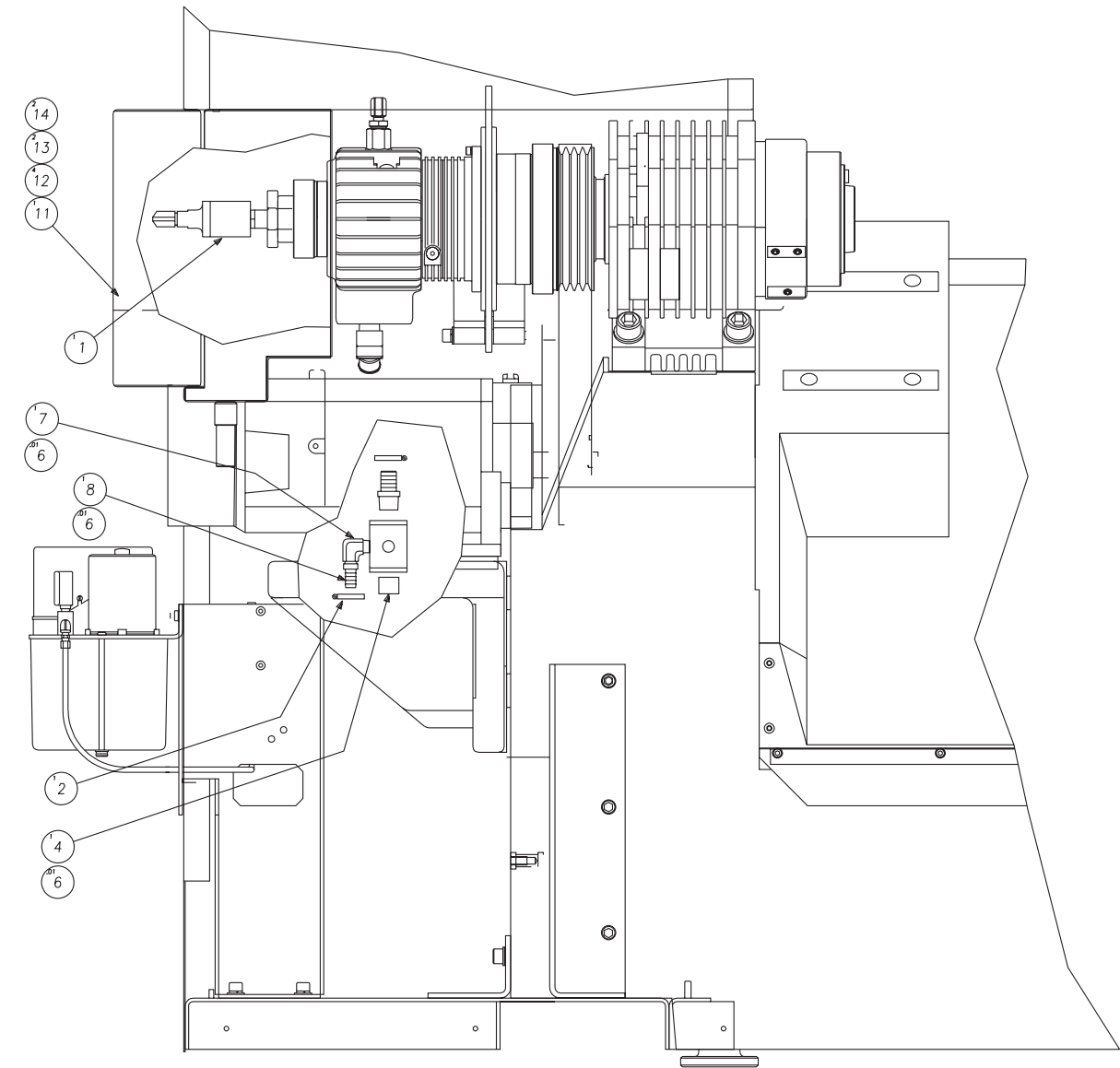
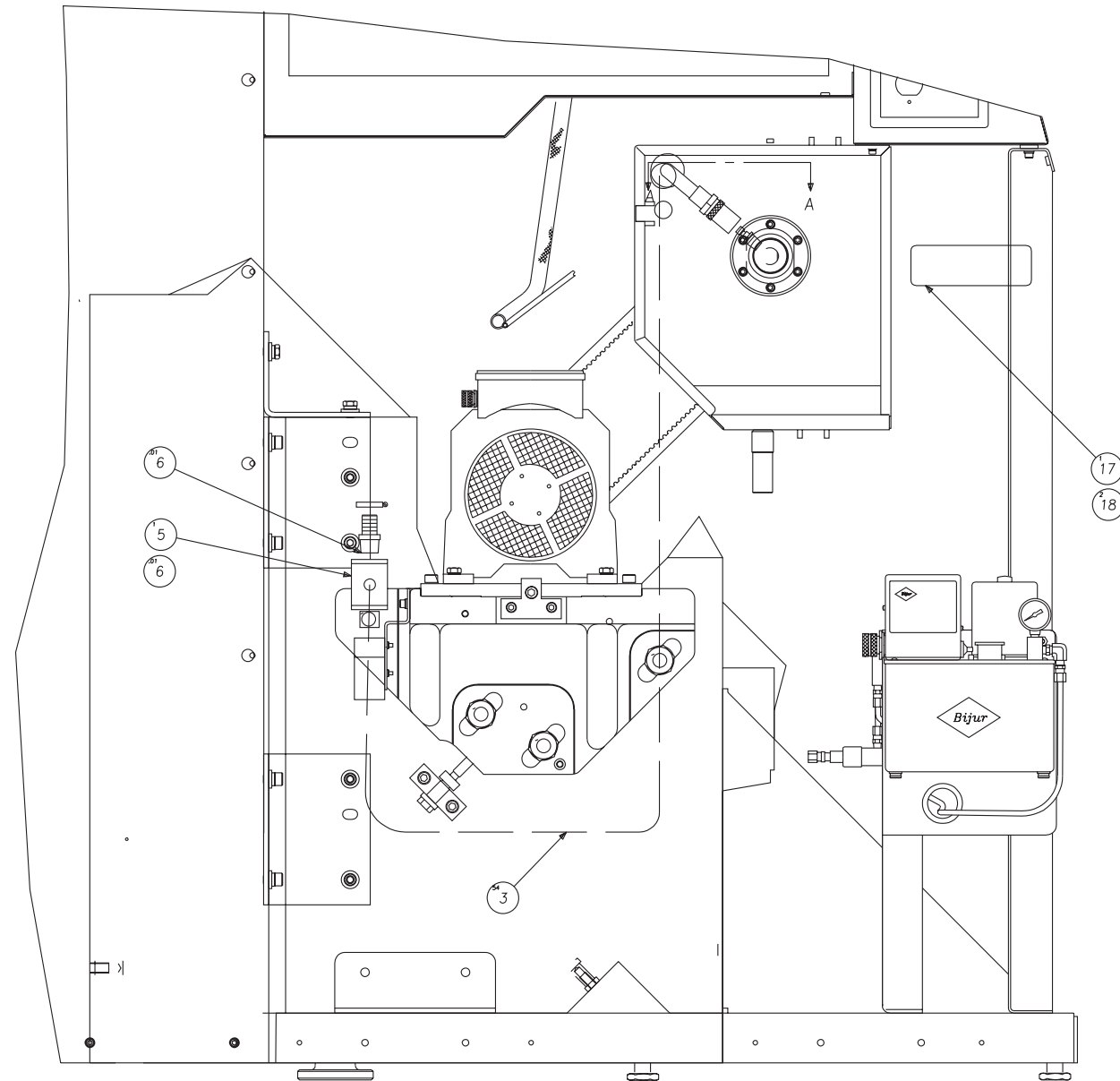
Thru-Spindle Coolant, Big Bore Machine



18	R-0008044	2	PIN
17	CS-0010302	1	TAG
16	LO-0002645	1	INSTRUCTIONS, INSTALLATION
15	H-0009500-0984	1	TAG
14	SG-0004990-59	2	HOOK
13	CS-0011738-02	2	LATCH
12	CN-0011198-01	4	TRIM SEAL
11	SG-0003780-CC	1	COVER
10	CC-0007703-01	1	BULKHEAD UNION 1/4 NPT
8	CS-0010786-04	3	FITTING, BARBED
7	AO-0010786	2	ELBOW, STREET 1/4 NPT
6	SB-0010884-S	.05	SEALANT, HYDRAULIC
5	CL-0007702	1	BLACK MI TEE 3/4 X 3/4 X
4	CS-0003504	1	NIPPLE, 3/4 CLOSE
3	500-0006965	5.33	HOSE, 1/2 IN. I.D.
2	CC-0006966-01	4	HOSE CLAMP
1	SG-0003310-T1	1	SUB ASSY THRU SPINDLE B.B.
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
ASSY. THRU. SPINDLE
(SG-42, BIG BORE)

PART NUMBER
SG-0003310-TB
SHEET 1 of 1

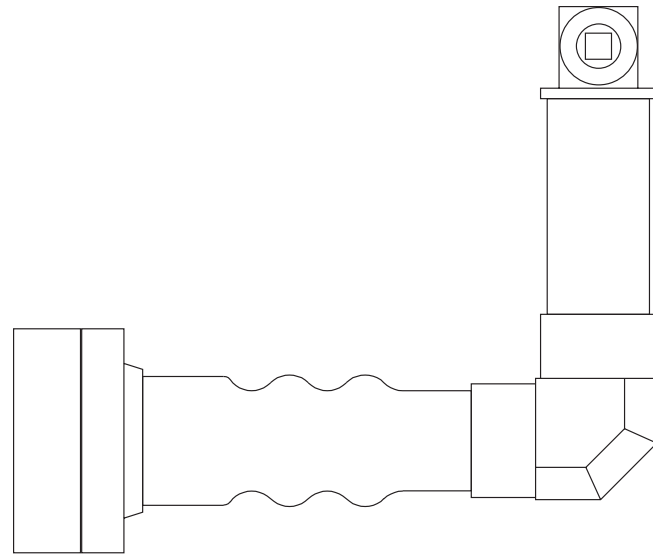


18	R-0008044	2	PIN
17	CS-0010302	1	TAG
16	LO-0002645	1	INSTRUCTIONS,INSTALLATION
15	H-0009500-0984	1	TAG
14	SG-0004990-59	2	HOOK
13	CS-0011738-02	2	LATCH
12	CN-0011198-01	4	TRIM SEAL
11	SG-0003780-CC	1	COVER
10	CC-0007703-01	1	BULKHEAD UNION 1/4 NPT
8	CS-0010786-04	3	FITTING,BARBED
7	AO-0010786	2	ELBOW,STREET 1/4 NPT
6	SB-0010884-S	0	SEALANT,HYDRAULIC
5	CL-0007702	1	BLACK MI TEE 3/4 X 3/4 X
4	CS-0003504	1	NIPPLE,3/4 CLOSE
3	500-0006965	62	HOSE, 1/2 IN. I.D.
2	CC-0006966-01	4	HOSE CLAMP
1	SG-0003310-T	1	THRU SPINDLE SUB ASSY.
ITEM	PART NUMBER	QTY	DESCRIPTION

NAME
COOLANT THRU SPINDLE
ASSY.

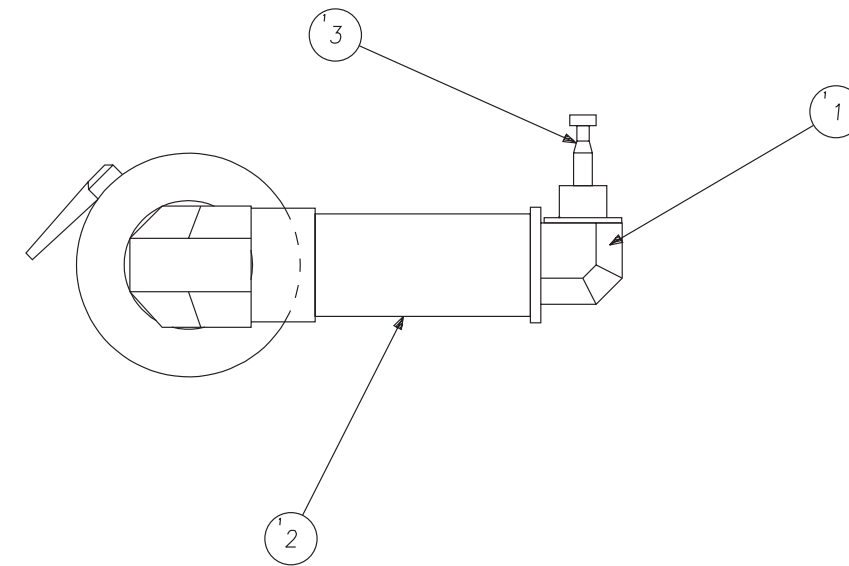
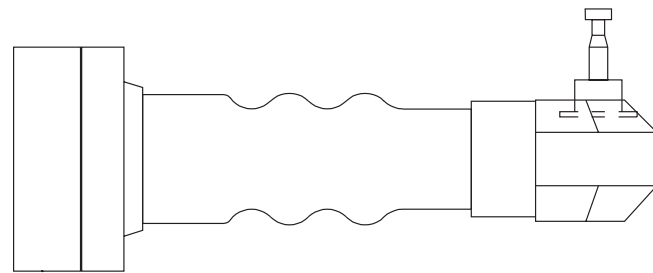
PART NUMBER
SG-0003310-TS
SHEET 1 of 1

Tool Touch Probe Arm Assembly



5	M -0008500-0277	1	CS42/CS42SP TOOL PROBE INS
4	LOA-0002240	1	INSTR. CN,GT TOOL PROBE AL
3	HG -0002536-02	1	PROBE
2	SG -0010222	1	ARM
1	SG -0002536-H	1	HOLDER
ITEM	PART NUMBER	QTY	DESCRIPTION

NOT SHOWN



NAME

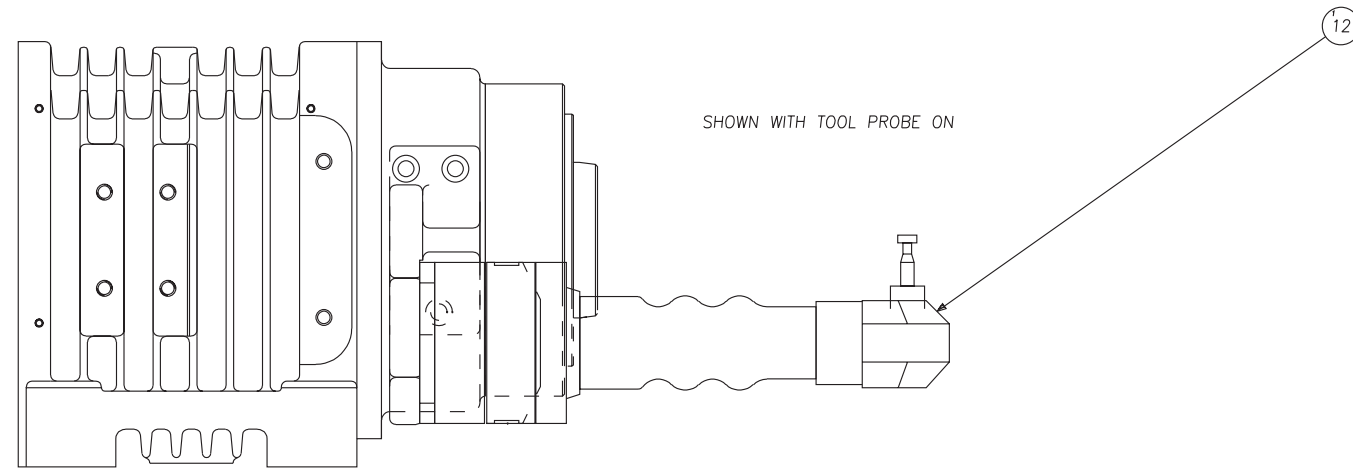
ASSY, TOOL TOUCH PROBE ARM

PART NUMBER

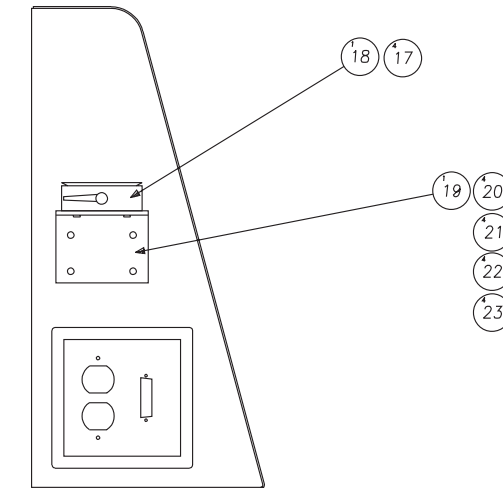
SG-0002536-PA

SHEET 1 OF 1

Tool Touch Probe Assembly

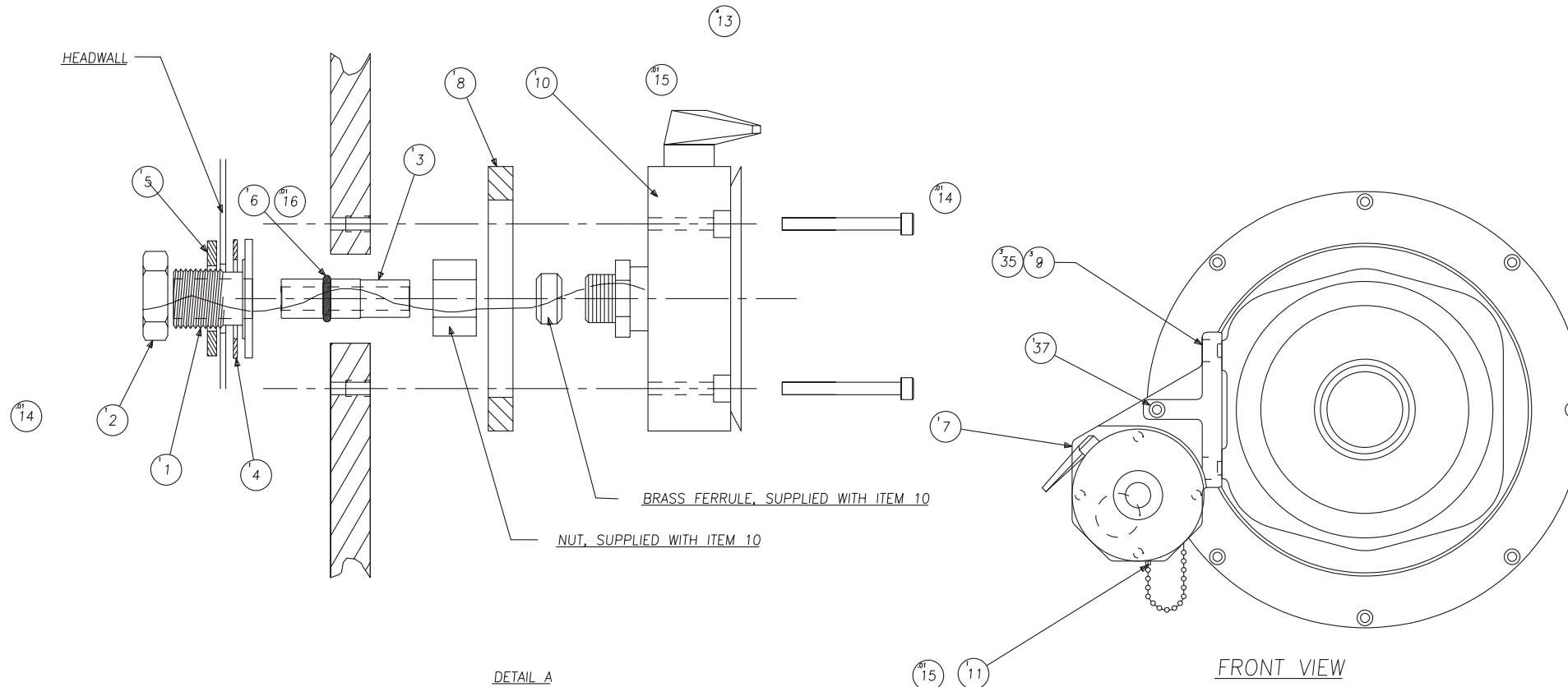


SIDE VIEW



THESE PARTS NOT SHOWN
USED IN CONTROL CASE

- 24 29 31 34
- 25 30 36



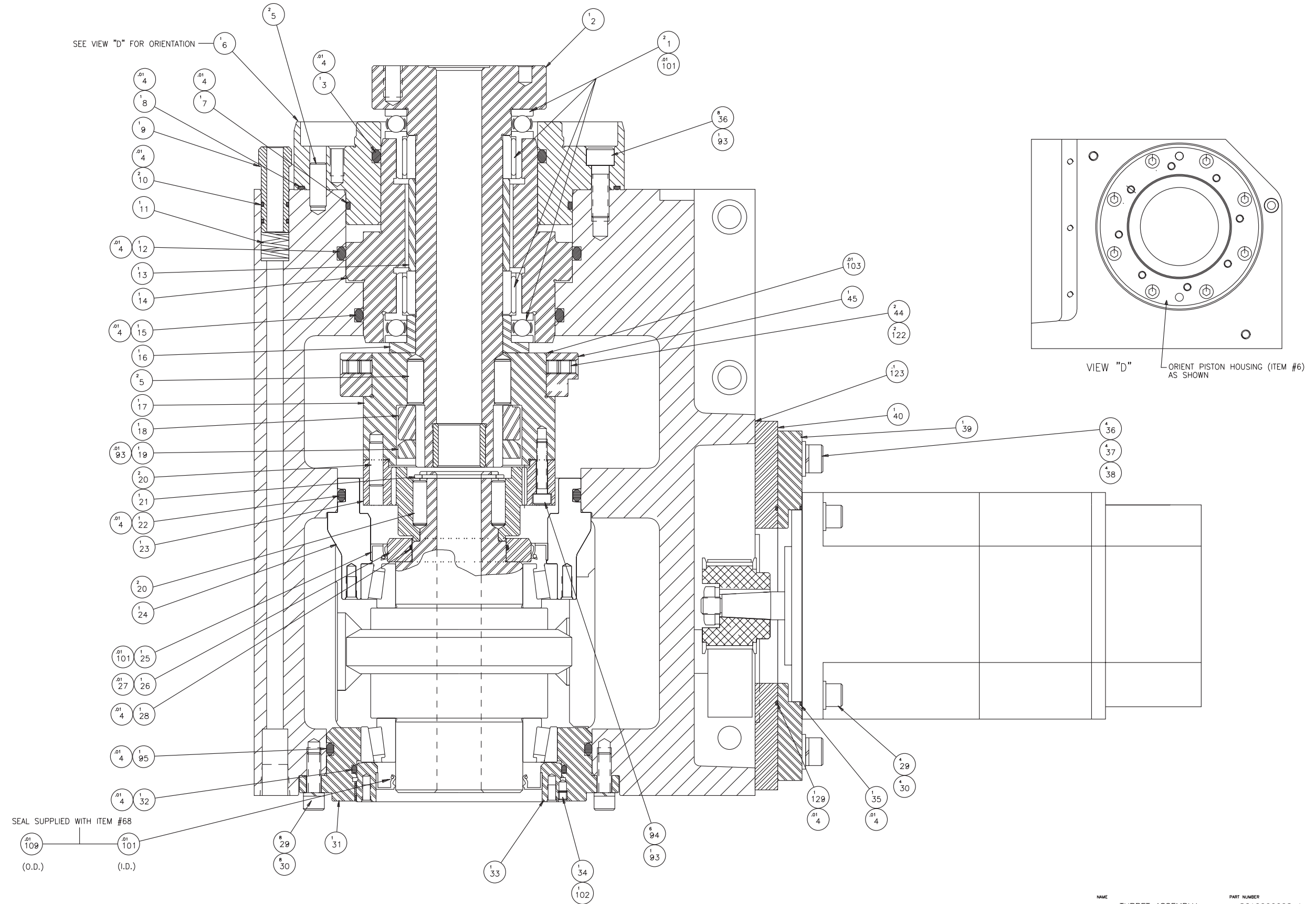
DETAIL A

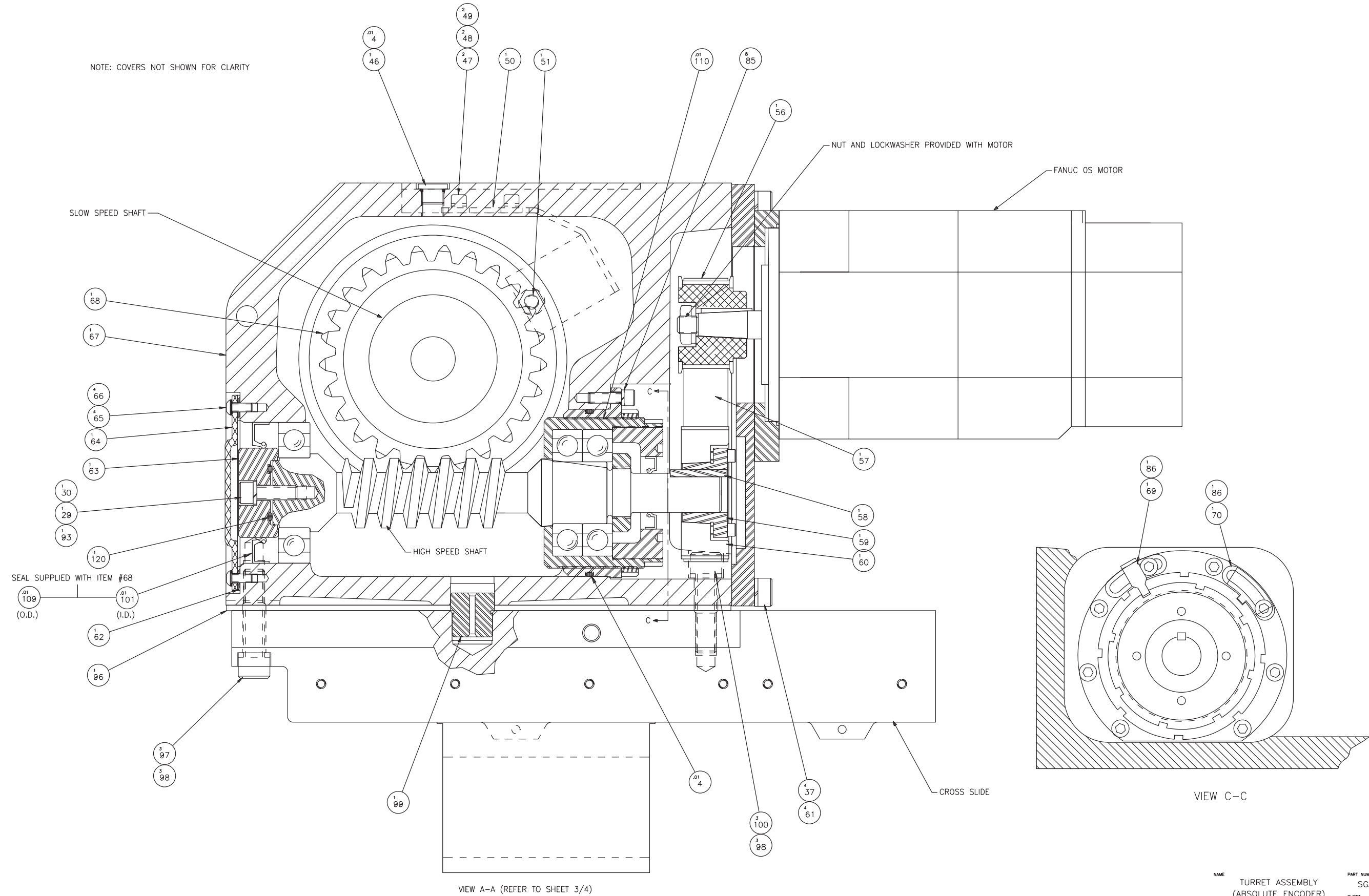
FRONT VIEW

37	MS-0313517	1	SCREW, M5x.8x17MM FLAT HD
36	F3-0009977-02	10	WIRE
35	MW-0193810	3	LOCKWASHER M8
34	221-0002874-BU	3	WIRE
31	CK-0009188-20	1	FERRULES
30	SG-0012042-CEDB	1	DATABASE
29	M-0009500-0246	1	MANUAL,DATUM & TOOL SET
25	F3-0009977	2	CODE MARKER F3
24	CN-0002536-C	1	CIRCUIT BOARD
23	MN-0283610	4	NUT,HEX FLANGE M6
22	MW-0193610	4	WASHER,LOCK M6
21	MW-0103610	4	WASHER,FLAT M6
20	MS-0103617	4	SCREW,M6
19	SG-0010215-15	1	BRACKET,TOOL PROBE
18	SG-0002536-01	1	STAND,ARM STORAGE
17	MS-0103420	4	SCREW
16	RF-0010994	0	M-55 GREASE
15	NC-0010884-01	0	LOCTITE 222
14	NC-0010884	0	LOCTITE 242
13	MS-0103422	4	SCREW
12	SG-0002536-PA	1	PROBE ARM ASSY.
11	MS-0303414	1	SCREW, M4 X .7
10	HG-0002536-01	1	BASE
9	MS-0103818	3	SCREW,M10 X 1.5
8	SG-0002536-02	1	BRACKET, BASE
7	SGA-0011931-TP	1	BRACKET,PROBE
6	OR-0000608	1	O-RING
5	U-0003998	1	WASHER
4	CS-0010116-23	1	WASHER
3	HG-0011776	1	HOUSING
2	NC-0001950-01	1	NUT,LOCK
1	HG-0011776-01	1	HOUSING
ITEM	PART NUMBER	QTY	DESCRIPTION

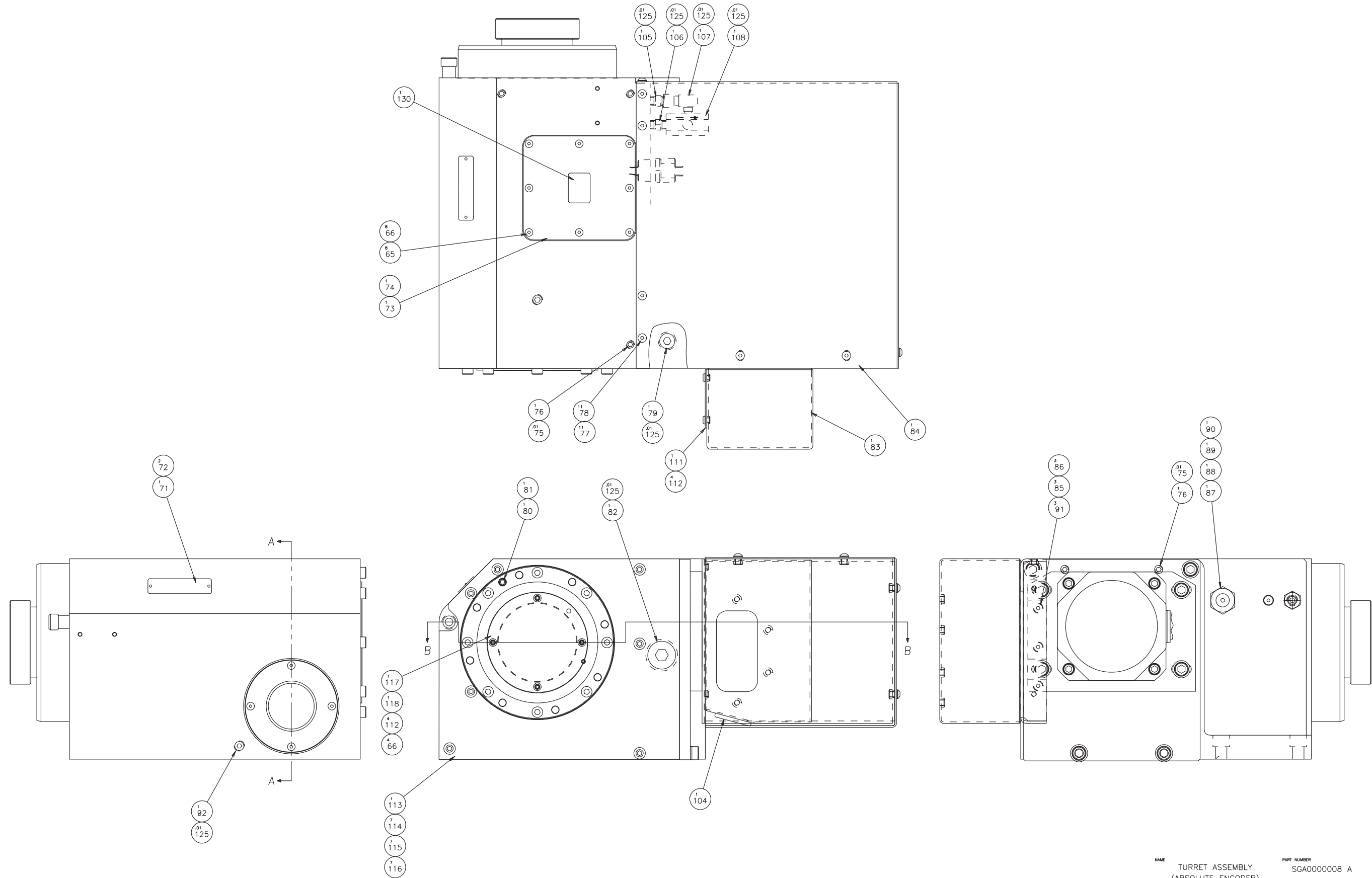
NAME: TOOL TOUCH OFF ASSEMBLY PART NUMBER: LO-0002632-CE

Turret Assembly, Main Turret






Turret Assembly, Main Turret



NAME TURRET ASSEMBLY (ABSOLUTE ENCODER) PART NUMBER SGA000008 A SHEET 3 OF 4

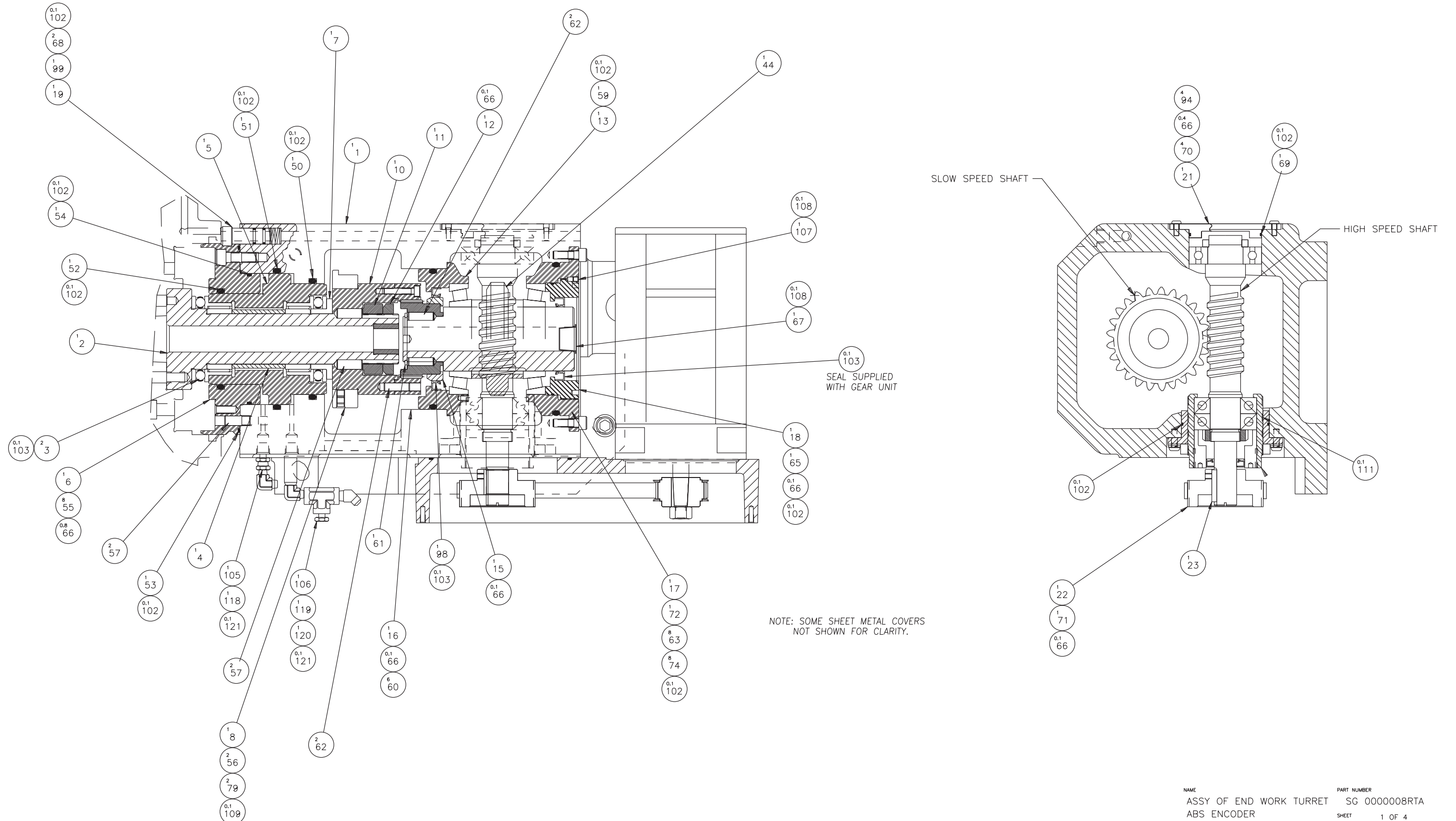
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	CS 000414001	2.000	BEARING, THRUST BALL & NEEDLE
2	CSB0011264	1.000	SHAFT, INDEX
3	CS 000943111	1.000	O-RING
4	RF 0010994	0.140	GREASE, SILICON
5	CS 000463003	4.000	DOWEL PIN, PULL OUT
6	CSA0011492	1.000	HOUSING, PISTON
7	CS 000943114	1.000	O-RING
8	CS 000943110	1.000	O-RING
9	SG 0007011	1.000	BUSHING, COOLANT
10	OR 0000810	2.000	O-RING
11	SG 0009764	1.000	SPRING
12	CS 000943113	1.000	O-RING
13	CS 000179914	1.000	SPACER, BEARING
14	CSA0011455	1.000	PISTON, TURRET
15	CS 000943112	1.000	O-RING
16	CS 000179915	1.000	SPACER, BEARING
17	CSA001149201	1.000	HOUSING, INDEX SHAFT
18	CS 0001950	1.000	NUT, LOCK
19	CS 0009050	1.000	NUT, LOCK AN10
20	NC 0006709	4.000	PIN, DOWEL
21	CS 0008231	1.000	RING, RETAINING
22	OR 0008288	1.000	O-RING
23	CSA0011792 A	1.000	COUPLING, TURRET GEAR
24	SG 0003969 I	1.000	SUPPORT, GEAR(INNER)
25	SG 001119816	1.000	SEAL
26	SG 000925902	1.000	SLEEVE
27	CN 0010884	0.010	ADHESIVE
28	OR 0003436	1.000	O-RING
29	MS 0103819	13.000	M8 SCREW, SHCS x 25mm
30	MW 0193810	13.000	M8 WASHER, LOCK
31	SG 0003969 O	1.000	SUPPORT, GEAR(OUTER)
32	OR 0007478	1.000	O-RING
33	SG 000049207	1.000	NUT, ADJUSTING
34	MS 0553512	1.000	M5 SCREW, SSCP x 5mm
35	OR 0006870	1.000	O-RING
36	MS 0104020	12.000	M10 SCREW, SHCS x 30mm
37	MW 0194010	8.000	M10 WASHER, LOCK
38	MW 0104010 H	4.000	M10 WASHER, HARDENED
39	SG 000199106	1.000	PLATE, MOUNTING TUR INDEX MTR
40	SGA000199108	1.000	PLATE, REAR
44	MS 0553814	2.000	M8 SCREW, SSCP x 8mm
45	SG 0004025	1.000	RING FOR HOME SWITCH
46	SG 000770302	1.000	PLUG, HOLLOW HEX
47	MS 0103516	2.000	M5 SCREW, SHCS x 12mm
48	MW 0193510	2.000	M5 WASHER, LOCK
49	MW 0103510	2.000	M5 WASHER, FLAT
50	SG 000197602	1.000	BRACKET, TURRET UP/DOWN
51	CL 001022402	1.000	SWITCH
56	SGA000317711	1.000	PULLEY, ASSEMBLY 32T
57	SG 000334612	1.000	BELT, 400-5M-25
58	SG 000611502	1.000	KEY, TURRET GEAR BOX PULLEY
59	SG 001168201	1.000	BUSHING, CLAMP
60	SGA000405302	1.000	PULLEY, INDEX TURRET GEAR
61	MS 0104021	4.000	M10 SCREW, SHCS x 35mm
62	SG 001011680	1.000	GASKET, WORM GEAR ACCESS
63	SG 0011137	1.000	RETAINER, BEARING
64	SG 002011532	1.000	COVER, WORM GEAR ACCESS
65	MS 0303516	12.000	M5 SCREW, BHSS x 12mm
66	MW 0263510	16.000	M5 WASHER, STAR

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
67	SG 0007201	1.000	TURRET
68	SG 0006199	1.000	GEAR BOX UNIT
69	SG 000499051	1.000	TAB (OUTER)
70	SG 000499050	1.000	TAB (INNER)
71	CS 001030202	1.000	TAG, CAUTION-PINCH POINT
72	R 0008044	2.000	PIN, ESCUTCHEON
73	SG 00101156A	1.000	COVER, WORM GEAR ACCESS
74	SG 00101165A	1.000	GASKET, WORM GEAR ACCESS
75	LT 0010884 S	0.020	SEALANT, PIPE
76	MS 0554015	2.000	M10 SCREW, SSCP x 10mm
77	MW 0263610	11.000	M6 WASHER, STAR
78	MS 0303616	11.000	M6 SCREW, BHSS x 12mm
79	TM 0006992	1.000	PLUG, PIPE
80	0620001467	1.000	PLUG, PIPE
81	CL 0010912	1.000	OIL, GEAR BOX
82	HM 0009215	1.000	PIPE PLUG, 1"
83	SG 002011520	1.000	MOUNT, JUNCTION BOX ASSEM.
84	SG 001011584	1.000	COVER, TURRET INDEX MOTOR
85	MW 0193610	11.000	M6 WASHER, LOCK
86	MW 0103610	5.000	M6 WASHER, FLAT
87	DB 00092079F	1.000	GROMMET CONNECTOR
88	DB 0009207 W	1.000	WASHER CONNECTOR
89	DB 00092076A	1.000	BODY CONNECTOR
90	DB 00092079B	1.000	NUT CONNECTOR
91	MS 0103616	3.000	M6 SCREW, SHCS x 12mm
92	CS 000146701	1.000	PLUG, PIPE
93	NC 0010884	3.010	LOCTITE ADHESIVE
94	MS 0103620	6.000	M6 SCREW, SHCS x 30mm
95	OR 0009096	1.000	O-RING
96	SG 0009002	1.000	PLATE, SHIM
97	MS 0104224	3.000	M12 SCREW, SHCS x 50mm
98	MW 0194210	6.000	M12 WASHER, LOCK
99	CS 000463001	1.000	PIN, PIVOT
100	MS 0104223	3.000	M12 SCREW, SHCS x 45mm
101	CS 0010994	0.040	GREASE
102	NC 001088401	1.000	LOCTITE #222
103	VS 0010440	0.010	ANTI-SEIZE GREASE
104	CL 000953201	1.000	GROMMET
105	CS 0008384 M	1.000	ADAPTER, METRIC
106	CS 000838401 M	1.000	ADAPTER, METRIC
107	CS 000770312	1.000	SWIVEL, 90°
108	CS 001145203	1.000	VALVE, FLOW CONTROL
109	SB 0010884 S	0.090	SEALANT, HYDRAULIC
110	SG 0010884	0.010	SEALANT, GASKET
111	SG 001011582	1.000	COVER, JUNCTION BOX
112	MS 0303514	8.000	M5 SCREW, SCREW BHSS x 8mm
113	SG 002011538	1.000	COVER, TURRET END
114	MS 0303815	7.000	M8 SCREW, BHSS x 10mm
115	MW 0103810	7.000	M8 WASHER, FLAT
116	MW 0183810	7.000	M8 WASHER, LOCK
117	SG 002011534	1.000	COVER, ADJUSTING NUT
118	SG 001011679	1.000	GASKET, ADJUSTING NUT
120	OR 0001418	1.000	O-RING
122	MS 0483815	2.000	M8 SCREW, SSBT x 10mm
123	HG 0010884	0.100	SEALANT, ULTRA BLUE #77B
126	KH 0008384	2.000	CONNECTOR, HOSE
127	VL 000770309	2.000	ELBOW, 90 DEG
129	OR 0006872	1.000	O-RING
130	CLA001036614CE	1.000	TAG, LEFT HAND

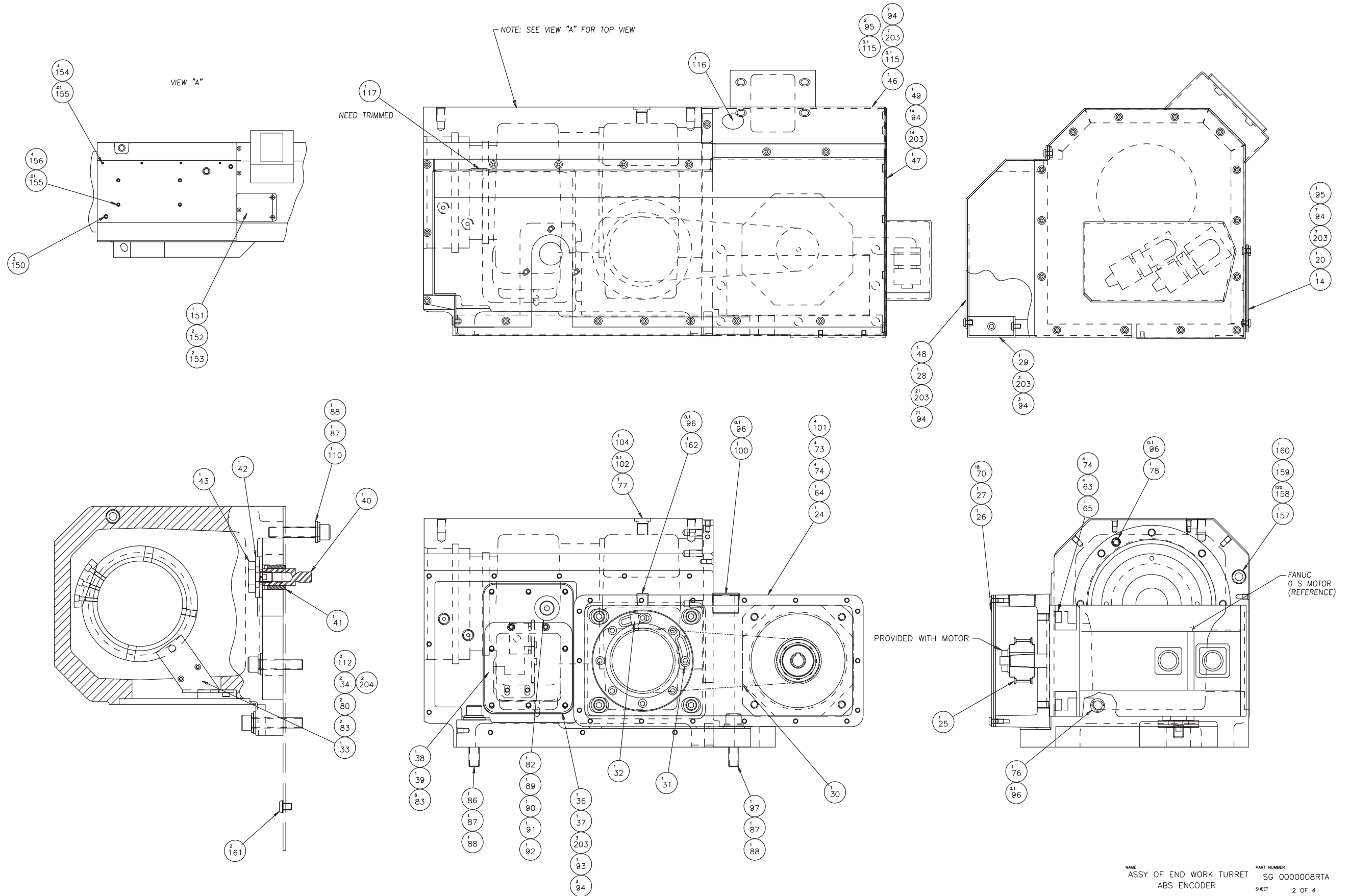
NOT SHOWN 

NAME TURRET ASSEMBLY (ABSOLUTE ENCODER) PART NUMBER SGA0000008 A SHEET 4 OF 4

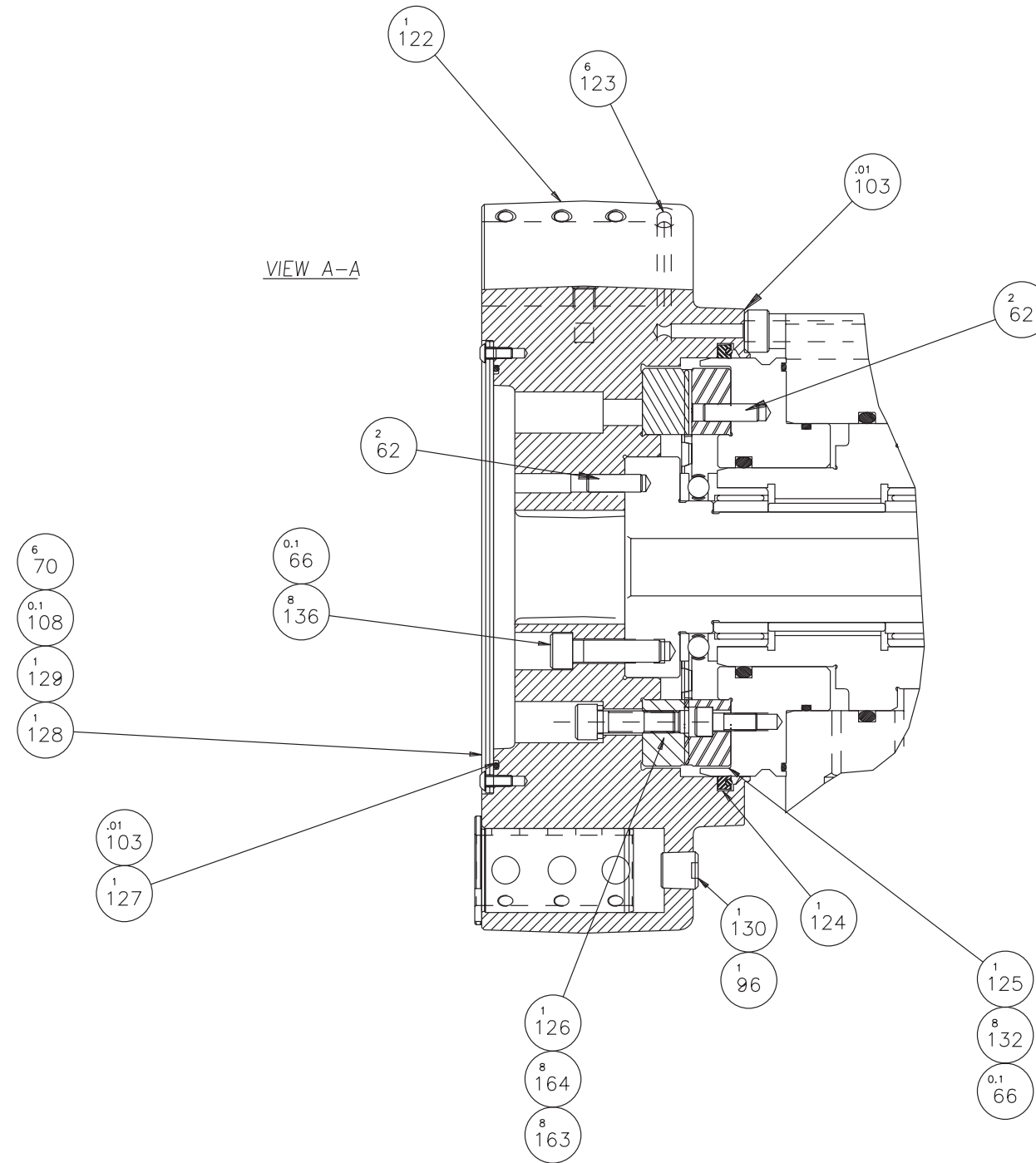
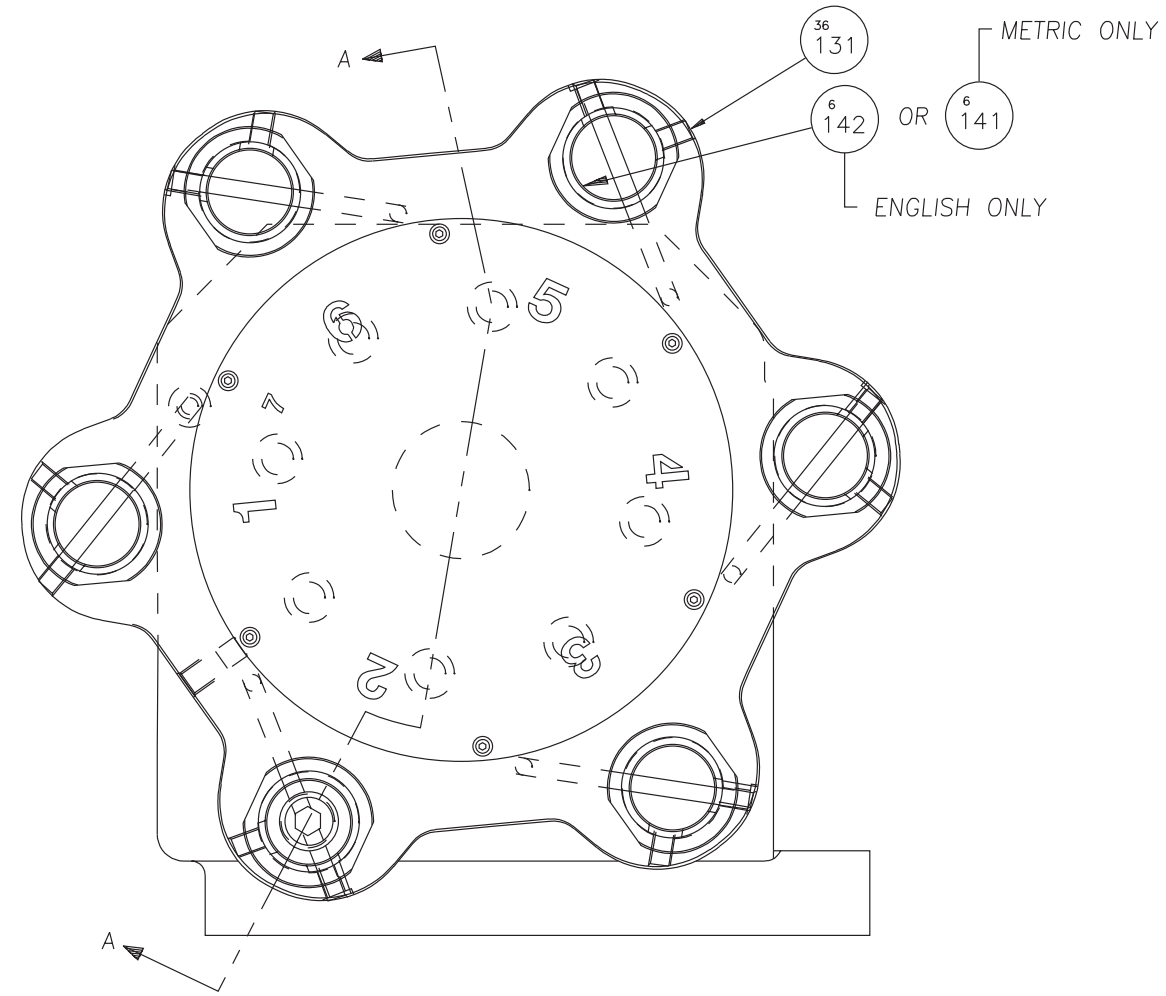
Turret Assembly, Ram Turret



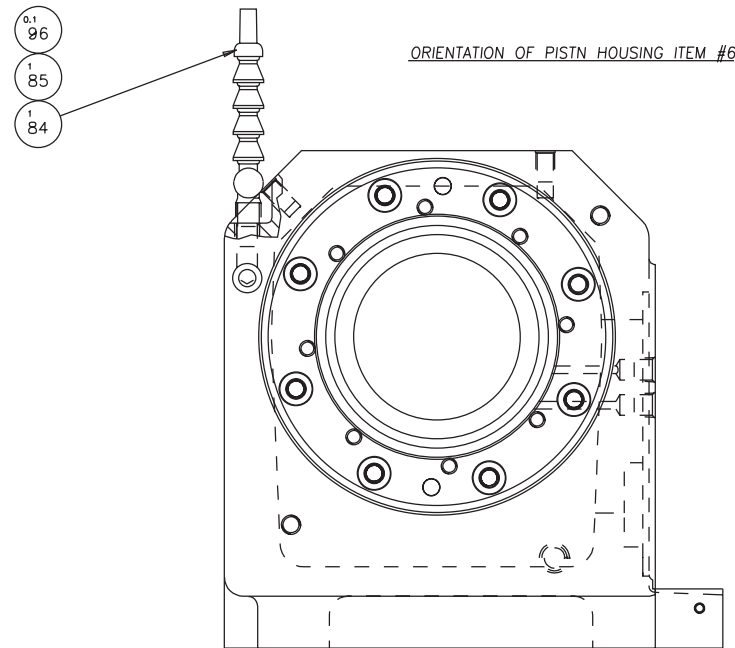
NAME	PART NUMBER
ASSY OF END WORK TURRET	SG 0000008RTA
ABS ENCODER	SHEET 1 OF 4



Turret Assembly, Ram Turret



NAME	PART NUMBER
ASSY OF END WORK TURRET	SG 000008RTA
ABS ENCODER	SHEET 3 OF 4



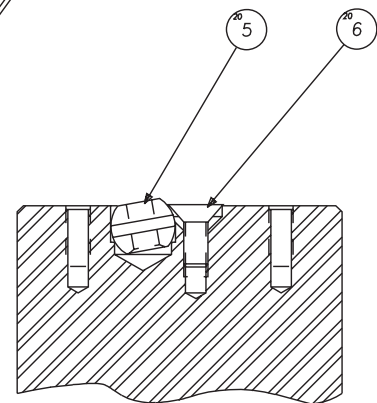
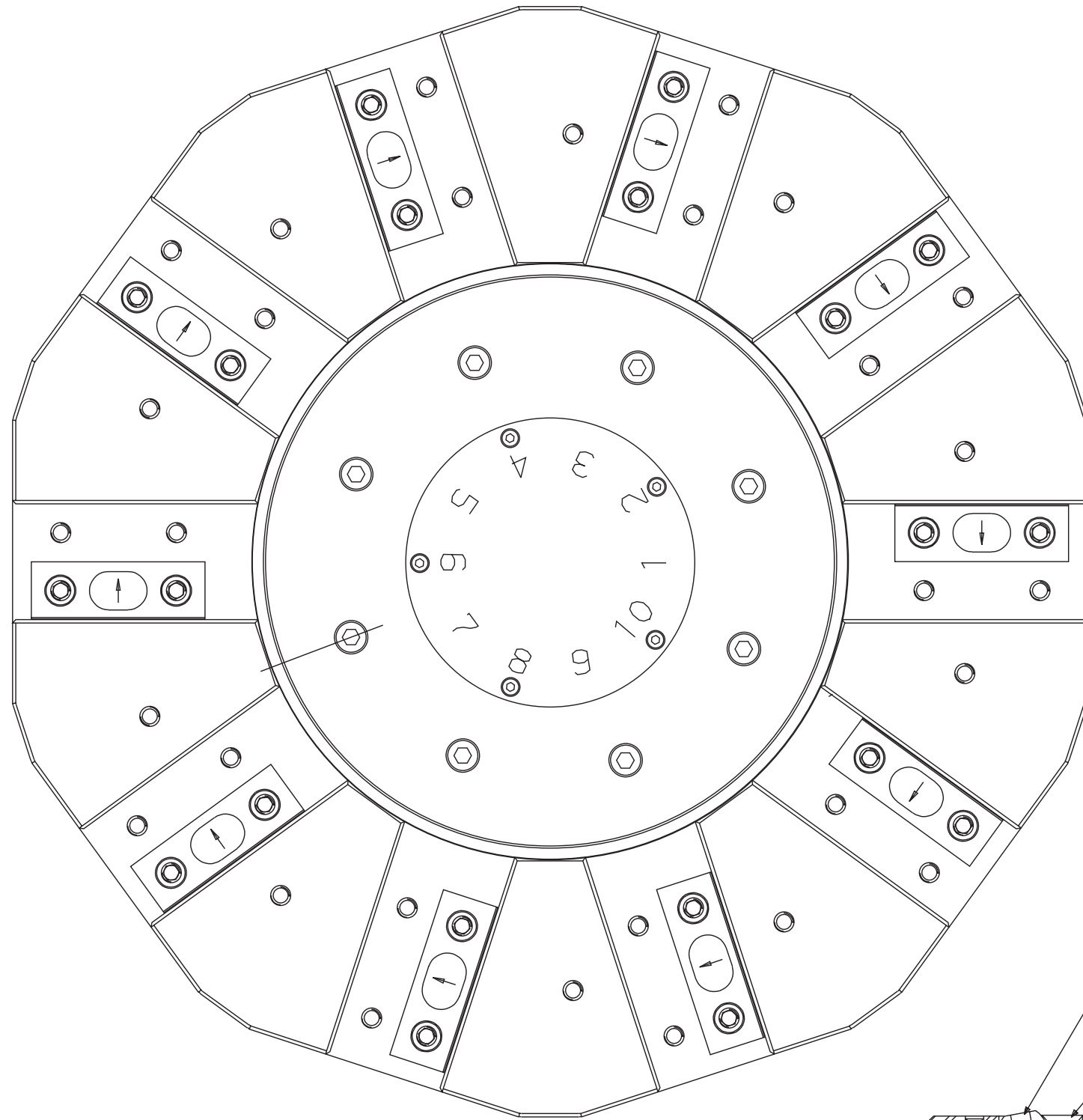
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
130	TM 0006992	1.000	PLUG, PIPE 1/2-14 NPT
131	MS 0573817	36.000	SET SCREW, M8 X 16MM
132	MS 0103818	8.000	SCREW, SOC HD, M8-20MM
136	MS 0104022	8.000	SCREW, SOC HD, M10-40MM
141	SG 001194401	6.000	BUSHING, TOOL HOLDER "M"
142	SG 0011944	6.000	BUSHING, TOOL HOLDER ENGLISH
150	MS 0554015	2.000	SCREW
151	SG 001021519	1.000	COVER
152	MS 0303516	30.000	SCREW, BUTTON
154	MS 0553514	5.000	SCREW, SET
156	MS 0553814	6.000	SCREW, SET
157	SG 000770202	1.000	CONNECTOR, 90° PUSH ON
158	SG 0007007	120.000	HOSE 1/2 OD
159	SG 0007702	1.000	CONNECTOR, STR. PUSH ON
160	AH 00099702	1.000	1/2NPT TO 3/8 NPT STL HX
161	MS 0303815	2.000	SCREW, BUTTON HD M8 X 10MM
162	CS 000146701	1.000	PLUG, 1/4-19
163	MW 0194010	8.000	WASHER, LOCK M10
164	MS 0104021	8.000	SCREW, SO HD M10 X 35 MM
203	MS 0303515	55.000	SCREW
204	CL 0003011PR01	2.000	PROXIMITY CABLE(V3-G-10M-PVC

ITEM	PART NUMBER	QUANTITY	DESCRIPTION
65	OR 0006870	2.000	O-RING
66	NC 0010884	1.900	LOCKTITE, 242
67	SG 000790301	1.000	PLUG, TAPERED
68	OR 0000810	2.000	O-RING, 0.5 ID X 0.063 W
69	SG 000943131	1.000	O-RING, 68MM ID X 2 W
72	OR 0009096	1.000	O-RING, 5.625 ID X 0.188 W
73	MS 0103820	4.000	SCREW, SOC HD M8 X 30MM
74	MW 0193810	16.000	WASHER, LOCK M8
76	S 0001914	1.000	PLUG, PIPE
77	SG 000770302	1.000	PLUG, SEAL
78	0620001467	1.000	PLUG, 1/16-27 NPT
79	MS 0483815	2.000	SCREW, SET TIP BRASS M8
80	MW 0193510	2.000	WASHER, LOCK M5
82	AH 0011508	1.000	NUT, LOCK
83	MS 0103516	10.000	SCREW, SOC HD, M5 X 12 MM
84	HG 001125911	1.000	CONNECTOR, 1/4-18 NPT
85	HG 0007011	1.000	NOZZLE, COOLANT
86	MS 0104226	1.000	SCREW, SOC HD M12 X 60MM
87	CL 000284001	3.000	WASHER, FLAT 7/16 HARDENED
88	MW 0194210	3.000	WASHER, LOCK M12
89	S0 0010226	1.000	GASKET ASSEMBLY 1/2 INCH
90	DB 00092079G	1.000	BODY CORD GRIP
91	DB 00092079F	1.000	GROMMET
92	DB 00092079B	1.000	NUT CONNECTOR COMPRESS
93	DB 0009207 W	1.000	WASHER CONNECTOR
94	MW 0263510	61.000	WASHER, STAR M5
95	MN 0283510	3.000	NUT, FLANGE M5
96	LT 0010884 S	1.520	SEALANT, PIPE
97	MS 0104224	1.000	SCREW, SOC HD M12 X 50MM
98	SG 001119816	1.000	SEAL, 3.25 ID X 4.003 OD
99	SG 0009764	1.000	SPRING, 0.6 OD X 0.875 L
100	HM 0009215	1.000	PLUGS, 1 ALLEN HEX SOC PIPE
101	MW 0153810	4.000	WASHER, FLAT HD
102	RF 0010984	1.200	GREASE, SILICON
103	CS 0010984	0.320	GREASE
104	CL 0010912	1.000	OIL, GEAR BOX MOBILE
105	KH 0010786	1.000	CONNECTOR, STR.
106	CT 0011092	1.000	NIPPLE, 1/4 NPT - 2" LONG
107	MS 0553512	1.000	SCREW, SET SOC CUP M5-5MM
108	NC 001088401	0.300	LOCTITE #222
109	VS 0010440	0.100	ANTI-SIZE GREASE
110	MS 0104227	1.000	SCREW, SOC HD M12 X 65 MM
111	SG 0010884	0.100	SEALANT, GASKET
112	MW 0103510	2.000	WASHER, FLAT M5
115	GE 0010884	0.200	SEALER
116	SG 001033101	1.000	PLUG, 1.0 IN HOLE
117	CS 001033103	1.000	PLUG, SNAP IN
118	CS 000770312	1.000	MALE SWIVEL, 90°
119	AO 0010786	1.000	ELBOW, 90° STREET 1/4 NPT
120	CS 001145203	1.000	VALVE, FLOW CONTROL
121	SB 0010884 S	0.200	HYDRAULIC SEALANT
122	SG 0007214RT	1.000	TOP PLATE, RAM
123	S 001070007	6.000	LEE PLUG, 0.281 SHORT
124	CS 001119815	1.000	SEAL, POLYPAK
125	CSA00117924H	1.000	COUPLING, HOUSING
126	SG 00117924T	1.000	COUPLING, TOP PLATE
127	OR 0112115	1.000	O-RING, 6.987 ID X 0.103 W
128	SG 0010419RT	1.000	NAME PLATE, RAM
129	SG 0010419ET	1.000	PLATE, BACKING

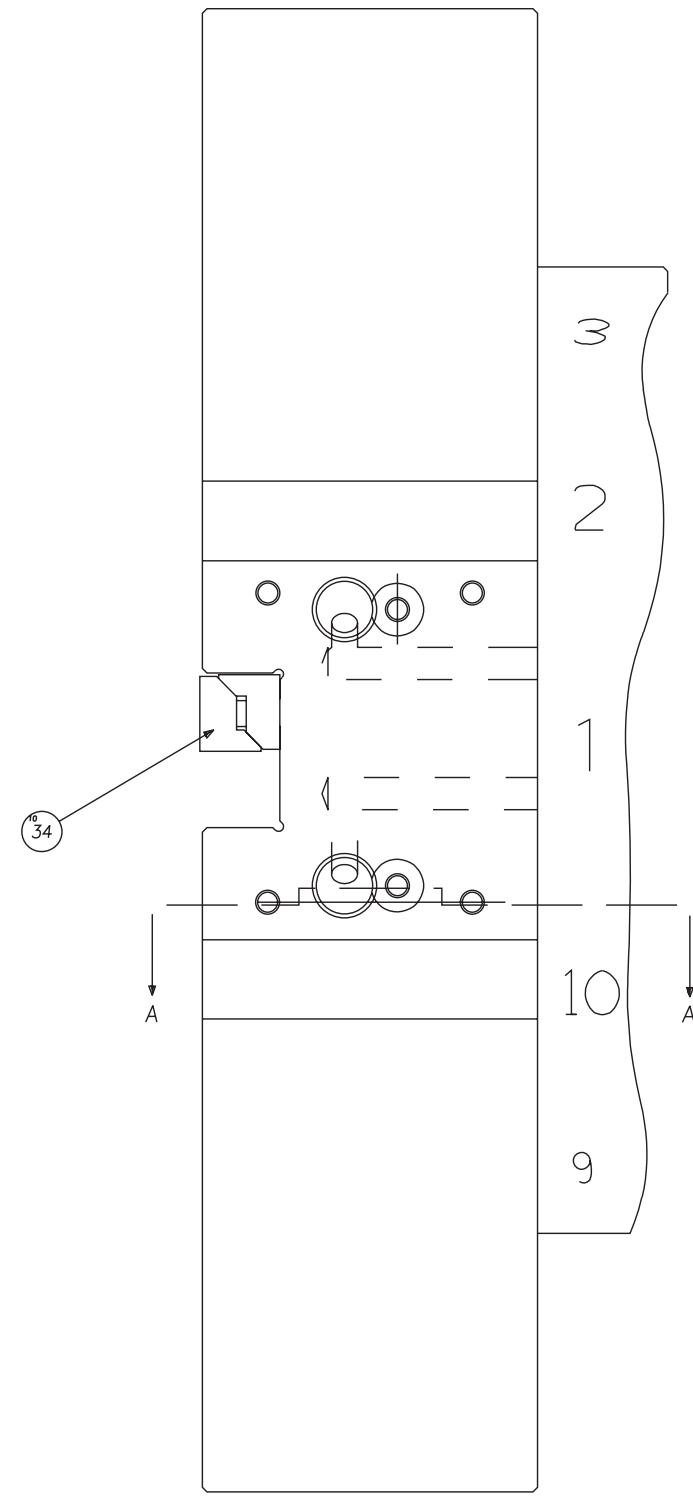
ITEM	PART NUMBER	QUANTITY	DESCRIPTION
1	SG 0007201RT	1.000	RAM TURRET, CASTING
2	CSB0011264	1.000	SHAFT, INDEX
3	CS 000414001	2.000	BEARING, THRUST & NEEDLE
4	CS 000179914	1.000	SPACER, BEARING
5	CSA0011455	1.000	PISTON, TURRET
6	CSA0011492	1.000	HOUSING, PISTON
7	CS 000179915	1.000	SPACER, BEARING
8	SG 0004025	1.000	RING, HOME SWITCH
10	CSA001149201	1.000	HOUSING, INDEX SHAFT
11	CS 0001950	1.000	NUT, LOCK INDEX SHAFT
12	CS 0009050	1.000	NUT, LOCK AN10
13	SG 0003969RT	1.000	HOUSING, GEAR SET, INSIDE
14	SG 002011546	1.000	COVER, REAR SIDE
15	SG 000925903	1.000	SLEEVE, SEAL
16	SG 0011792RT	1.000	COUPLING, GEAR TURRET-(RT)
17	SG 0003969 RRT	1.000	HOUSING, GEAR SET, REAR
18	SG 000492RT	1.000	NUT,GEAR SET REAR
19	SG 0007011	1.000	BUSHING, COOLANT
20	SG 001011686	1.000	GASKET, REAR SIDE
21	SG 002011535	1.000	COVER, WORM SHAFT
22	SG 000405304	1.000	PULLEY,INDEX SHAFT 48T
23	SG 000611502	1.000	KEY, 0.1875 SQ X 1.25 L
24	SGA0006001RT	1.000	DRIVE HOUSING
25	SG 0003177AR	1.000	PULLEY, ASS. 32T
26	SG 0010115DH	1.000	COVER, DRIVE HOUSING
27	SG 0010116DH	1.000	GASKET, DRIVE HOUSING
28	SG 002011527	1.000	COVER, SIDE
29	SG 002011540	1.000	COVER, BOTTOM
30	SG 0003346RT	1.000	BELT, 5 X 565 X 15 MM GT
31	SG 000499051	1.000	TAB (OUTER)
32	SG 000499050	1.000	TAB (INNER)
33	SG 000197603	1.000	BRACKET, U/D SWITCH
34	CLA001022402	2.000	P&F NJ-1.5-8GM40-E2V3Y94508
36	SG 0010116RS	1.000	GASKET, SWITCH
37	SG 0010115RS	1.000	COVER, SWITCH
38	SG 0010116SR	1.000	GASKET, ACCESS COVER
39	SG 0010115RA	1.000	COVER, SWITCH ACCESS
40	CL 0011052	1.000	PIVOT
41	CSA001130401	1.000	SLEEVE, ECCENTRIC 2ND OP.SPI
42	CS 000323003	1.000	WASHER, SECOND OP. SPINDLE
43	CS 001105201	1.000	PIVOT, BOLT
44	SG 0006199RT	1.000	WORM GEAR SET-926
46	SG 002011528	1.000	COVER, REAR
47	SGA002011539	1.000	COVER, BACK
48	SG 001011685	1.000	GASKET, SIDE
49	SG 002011603	1.000	GASKET
50	CS 000943112	1.000	"O" RING
51	CS 000943113	1.000	"O" RING
52	CS 000943111	1.000	GREASE, SILICON
53	CS 000943110	1.000	"O" RING
54	CS 000943114	1.000	"O" RING
55	MS 0104020	8.000	SCREW, SO HD M10 X 30 MM
57	CS 000463003	4.000	DOWEL PIN, PULL OUT
59	OR 0008288	1.000	O-RING, 5.125 ID X 0.188 W
60	MS 0103620	6.000	SCREW, SOC HD M6 X 30 MM
61	CS 0008231	1.000	RING, RETAINING
62	NC 0006709	8.000	PIN, PULL OUT DOWEL
63	MS 0103819	12.000	SCREW, SOC HD M8 X 25 MM
64	OR 0104108	1.000	O-RING

NAME ASSY OF END WORK TURRET ABS ENCODER
 PART NUMBER SG 000000RTA
 SHEET 4 OF 4

Turret Top Plate Assembly, English, 10 Station

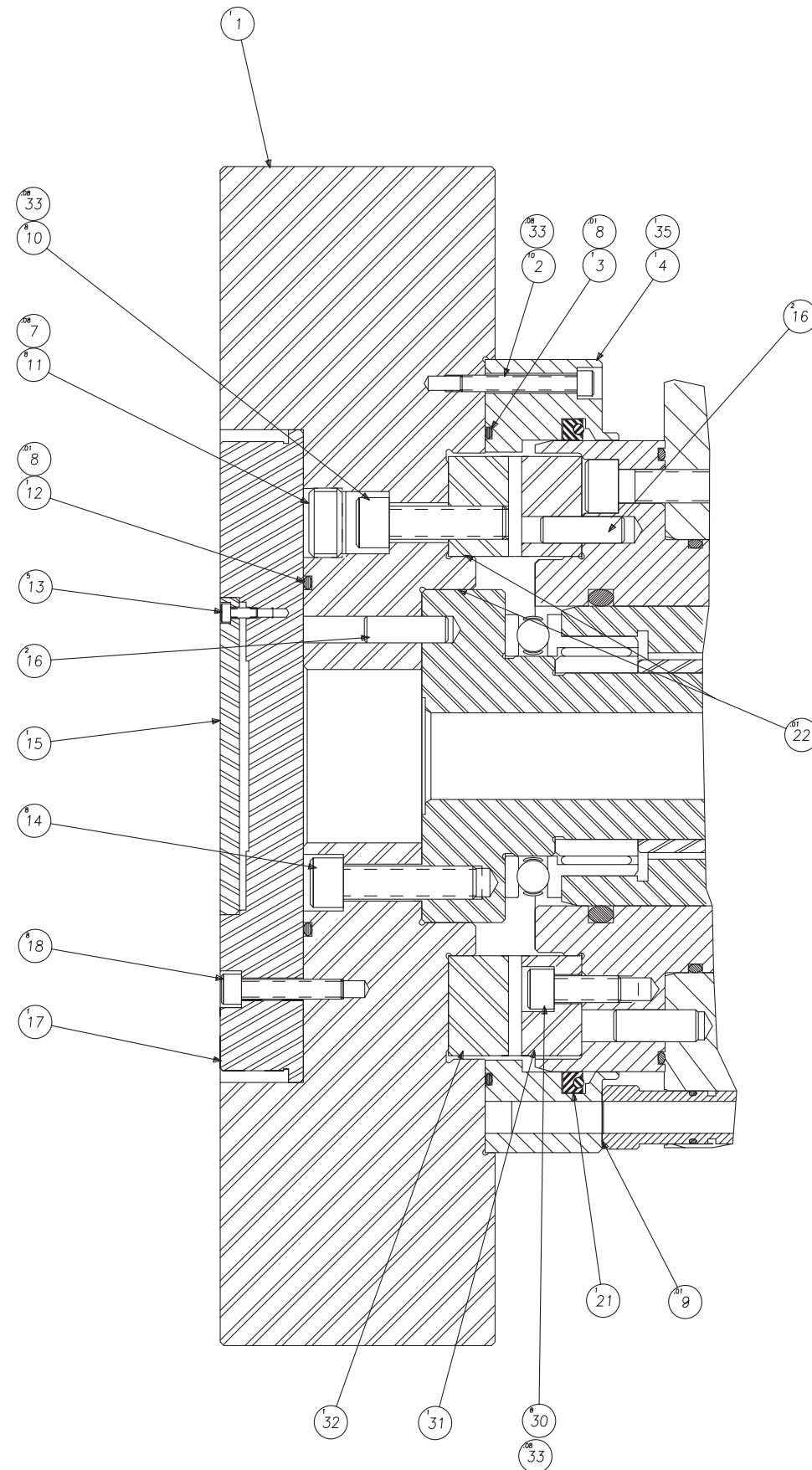


SECTION A-A



NAME
TOP PLATE ASSEMBLY
10 STATION 3/4" SQ

PART NUMBER
SG-0007214-E1
SHEET 1 of 3



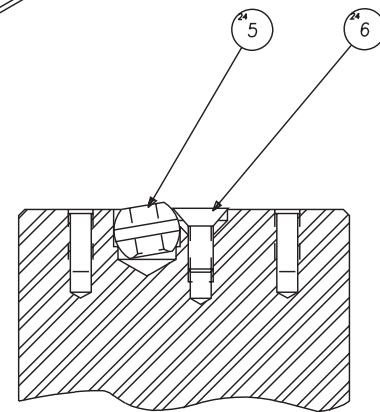
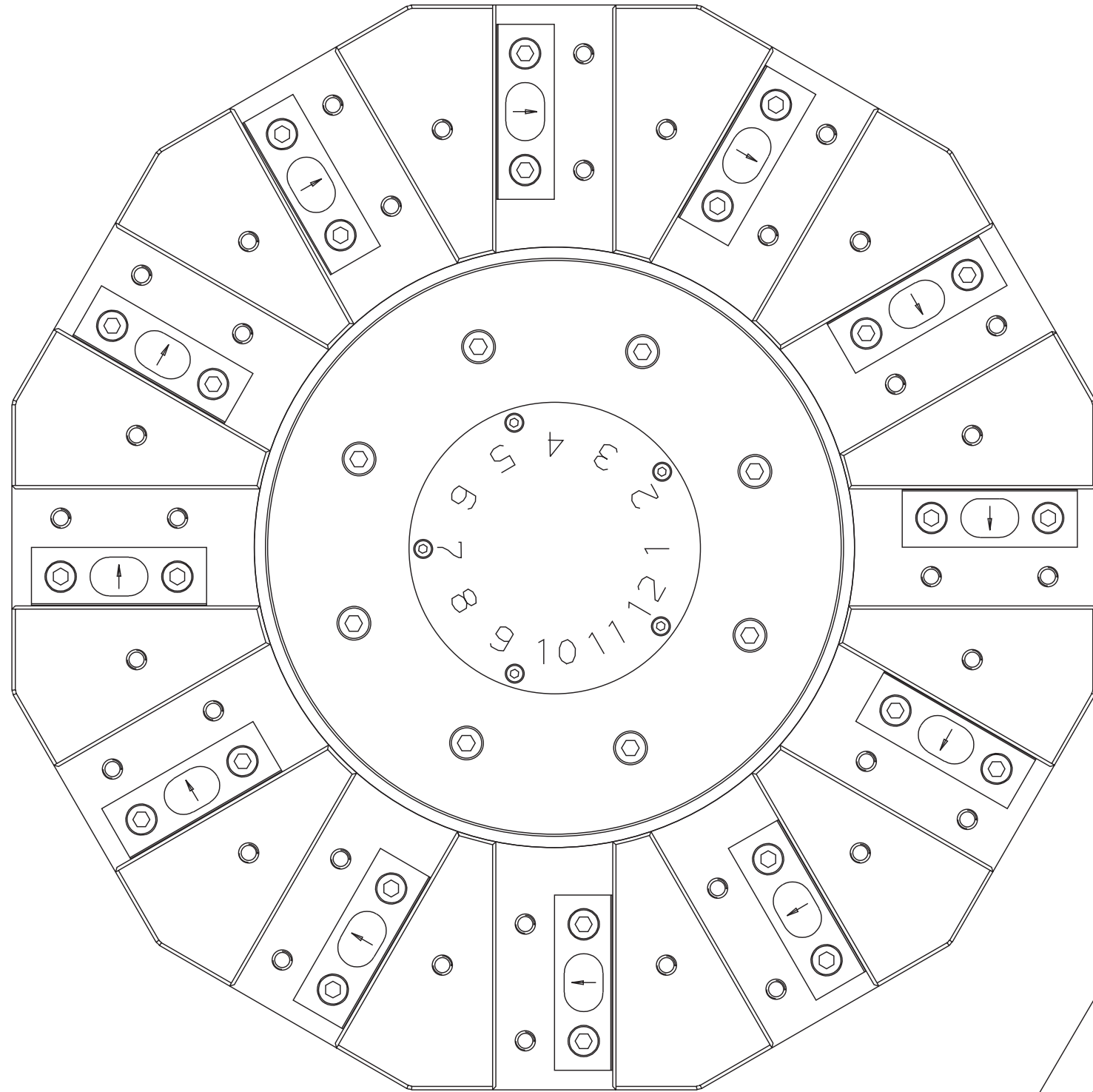
35	CD-0004629	1	PIN, DOWEL
34	SG-0011944-CT	10	CLAMP, TOOL ASSEM
33	NC-0010884	0	LOCTITE ADHESIVE
32	SG-0011792-3T	1	COUPLING, TOP PLATE 10 ST
31	CS-0011792-3H	1	COUPLING, HOUSING 10 STAT
30	MS-0103818	8	SCREW
22	VS-0010440	0	GREASE, ANTI-SEIZE
21	CS-0011198-15	1	SEAL, POLYPAK
20	RF-0011971	1	BAG, MAIL
18	MS-0103619	8	SCREW
17	SG-0010419-03	1	STOP, TOOL
16	NC-0006709	4	PIN, DOWEL
15	CS-0010419-A	1	NAME PLATE, 10 STATION
14	MS-0104022	8	SCREW
13	MS-0103314	5	SCREW
12	CS-0009431-07	1	O-RING
11	SG-0001914	8	PLUG, 1/2-14 BSPP
10	MS-0104021	8	SCREW
9	CS-0010994	0	GREASE, M55
8	RF-0010994	0	GREASE, SILICON
7	LT-0010884-S	0	SEALANT, PIPE
6	MS-0313616	20	SCREW,FLAT HEAD
5	CSA-0006058-01	20	BALL, COOLANT
4	SG-0009813	1	COOLANT RING, 10 STATION
3	OR-0120123	1	O-RING
2	MS-0103521	10	SCREW
1	SG-0007214	1	TOP PLATE, 10 STA. 3/4 SQ
ITEM	PART NUMBER	QTY	DESCRIPTION

20

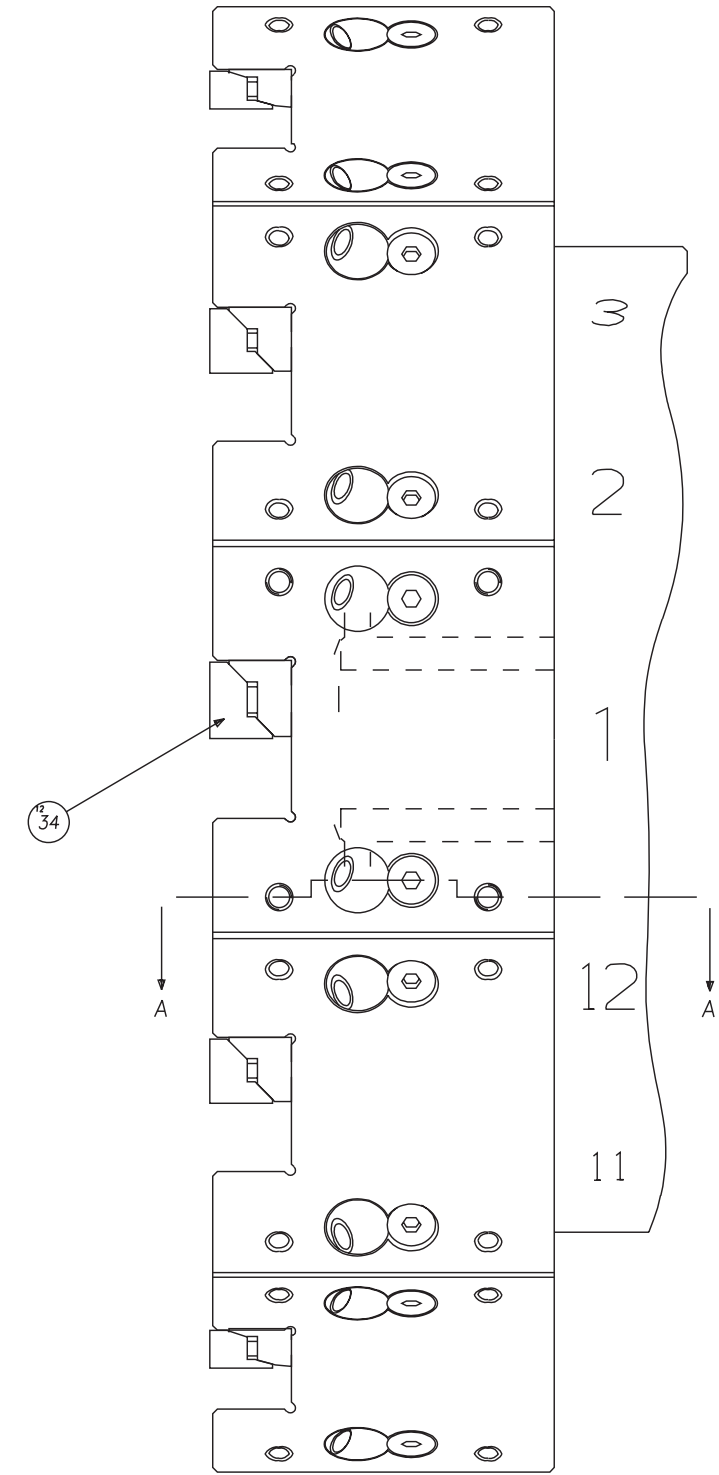
NAME
TOP PLATE ASSEMBLY
10 STA ENGLISH

PART NUMBER
SG-0007214-E1
SHEET 2 of 3

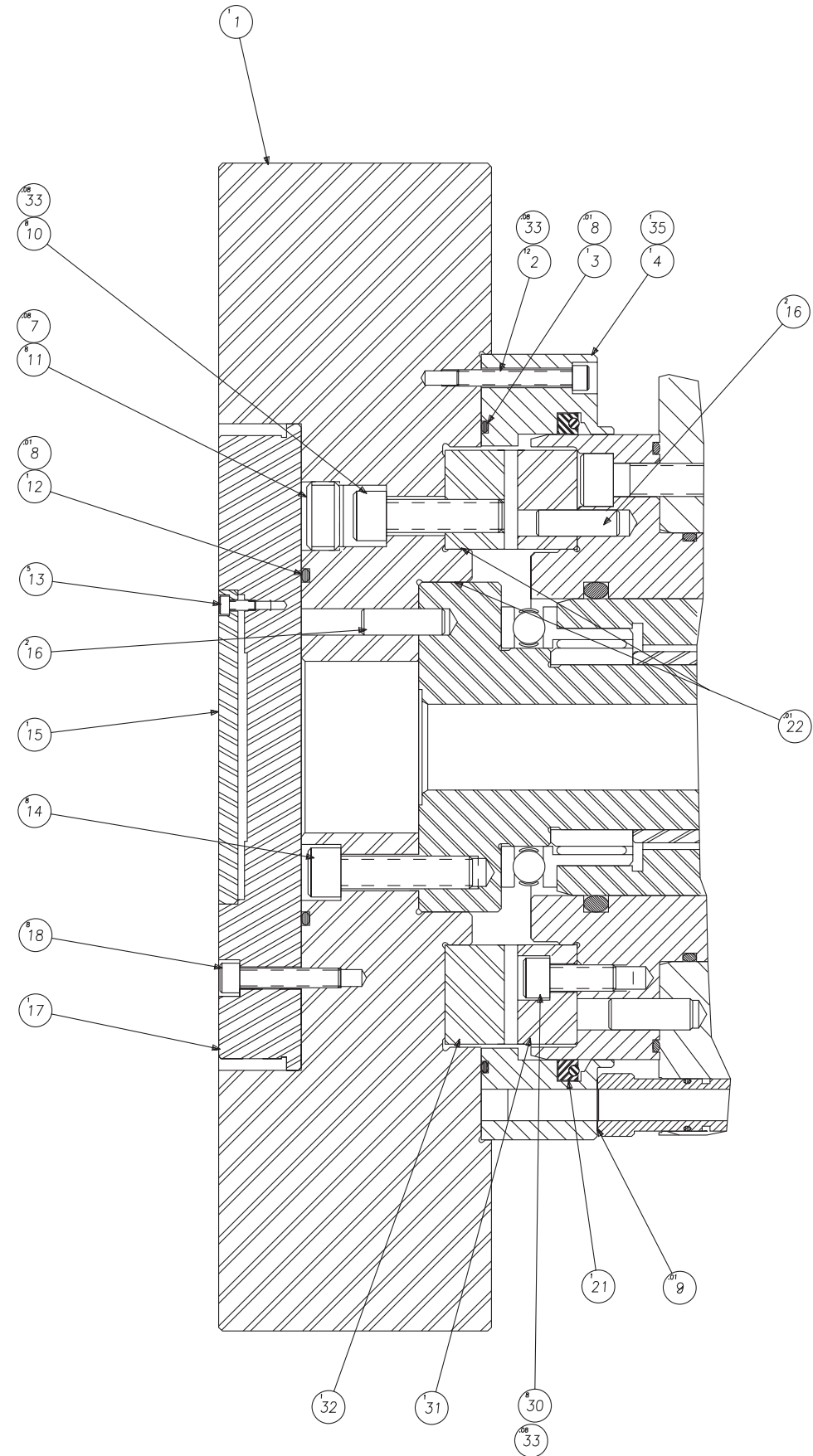
Turret Top Plate Assembly, English, 12 Station



SECTION A-A



NAME TOP PLATE ASSEMBLY PART NUMBER SG-0007214-E
SHEET 1 of 3



35	CD-0004629	1	PIN, DOWEL
34	SG-0011944-CT	12	CLAMP, TOOL ASSEM
33	NC-0010884	0	LOCTITE ADHESIVE
32	SG-0011792-4T	1	COUPLING, TOP PLATE 12 ST
31	CS-0011792-4H	1	COUPLING, HOUSING 12 STAT
30	MS-0103818	8	SCREW
22	VS-0010440	0	GREASE, ANTI-SEIZE
21	CS-0011198-15	1	SEAL, POLYPAK
20	RF-0011971	1	BAG, MAIL
18	MS-0103619	8	SCREW
17	SG-0010419-03	1	STOP, TOOL
16	NC-0006709	4	PIN, DOWEL
15	CS-0010419-A1	1	NAME PLATE, 12 STATION
14	MS-0104022	8	SCREW
13	MS-0103314	5	SCREW
12	CS-0009431-07	1	O-RING
11	SG-0001914	8	PLUG, 1/2-14 BSPP
10	MS-0104021	8	SCREW
9	CS-0010994	0	GREASE, M55
8	RF-0010994	0	GREASE, SILICON
7	LT-0010884-S	0	SEALANT, PIPE
6	MS-0313616	24	SCREW,FLAT HEAD
5	CSA-0006058-01	24	BALL, COOLANT
4	SG-0009813-01	1	COOLANT RING, 12 STATION
3	OR-0120123	1	O-RING
2	MS-0103521	12	SCREW
1	SG-0007214-04	1	TOP PLATE, 12 STA. 3/4 SQ
ITEM	PART NUMBER	QTY	DESCRIPTION

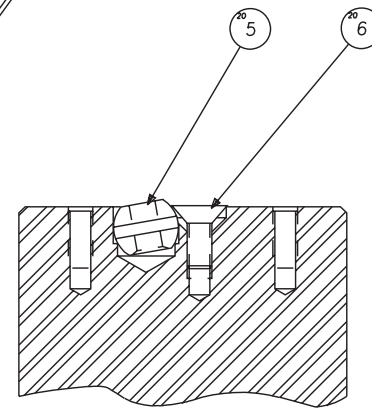
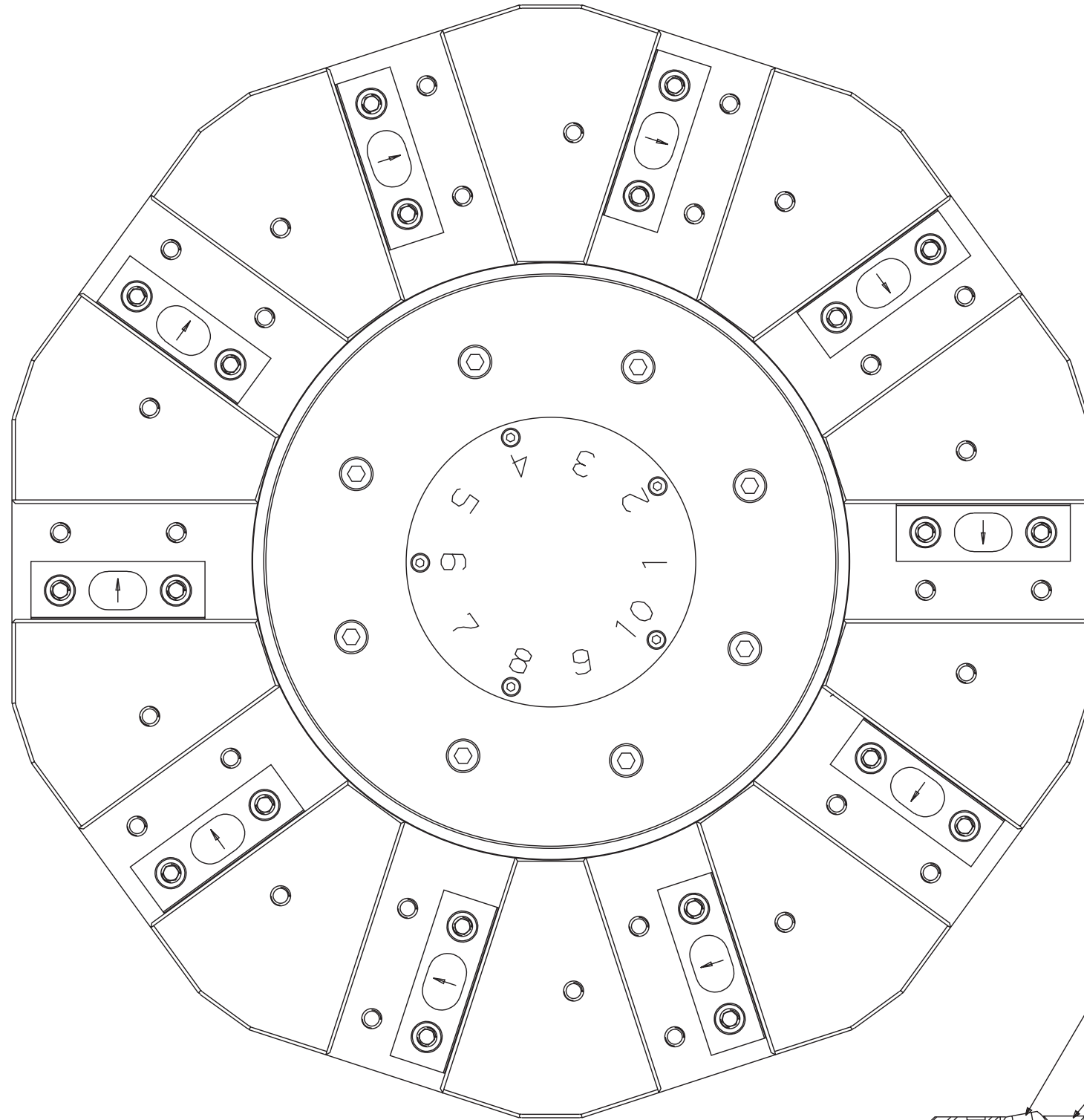
20

NAME
TOP PLATE ASSEMBLY

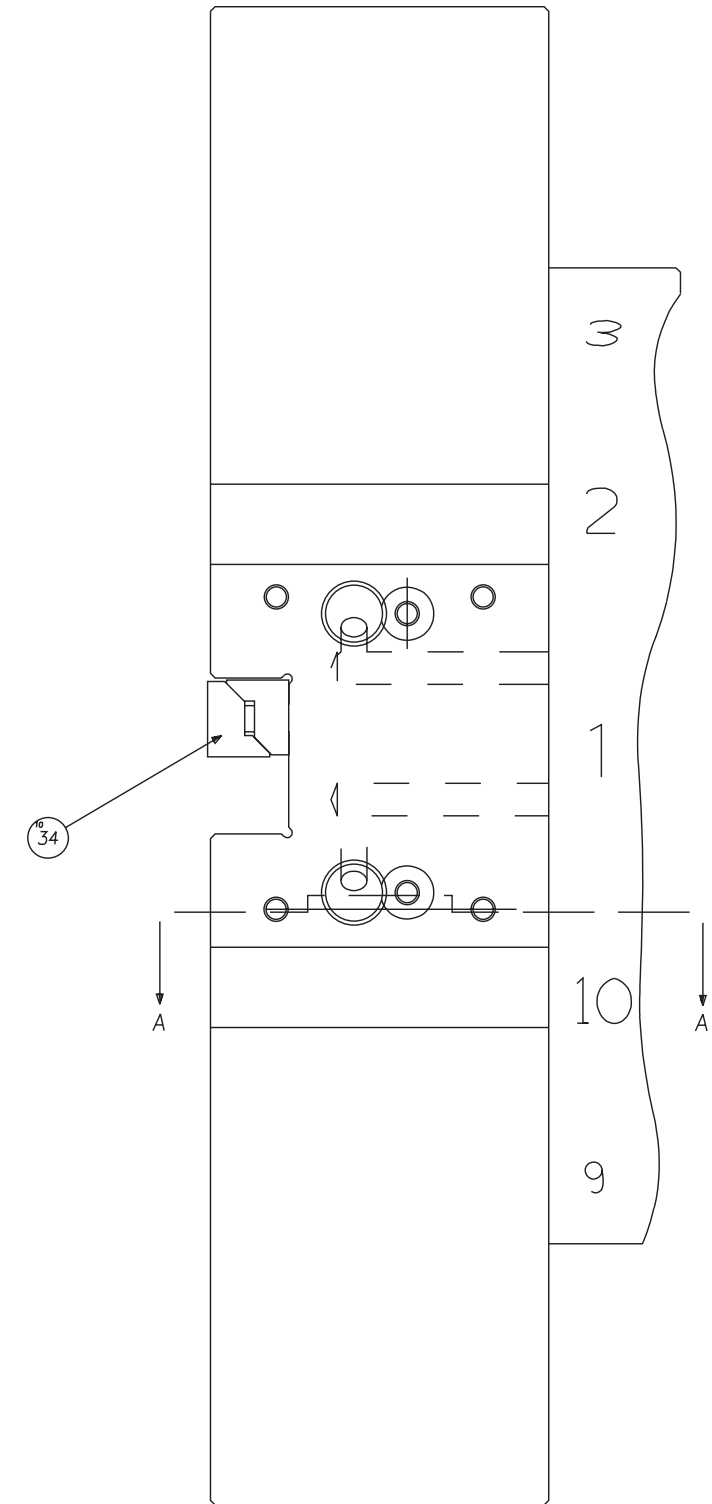
PART NUMBER
SG-0007214-E

SHEET 2 of 3

Turret Top Plate Assembly, Metric, 10 Station

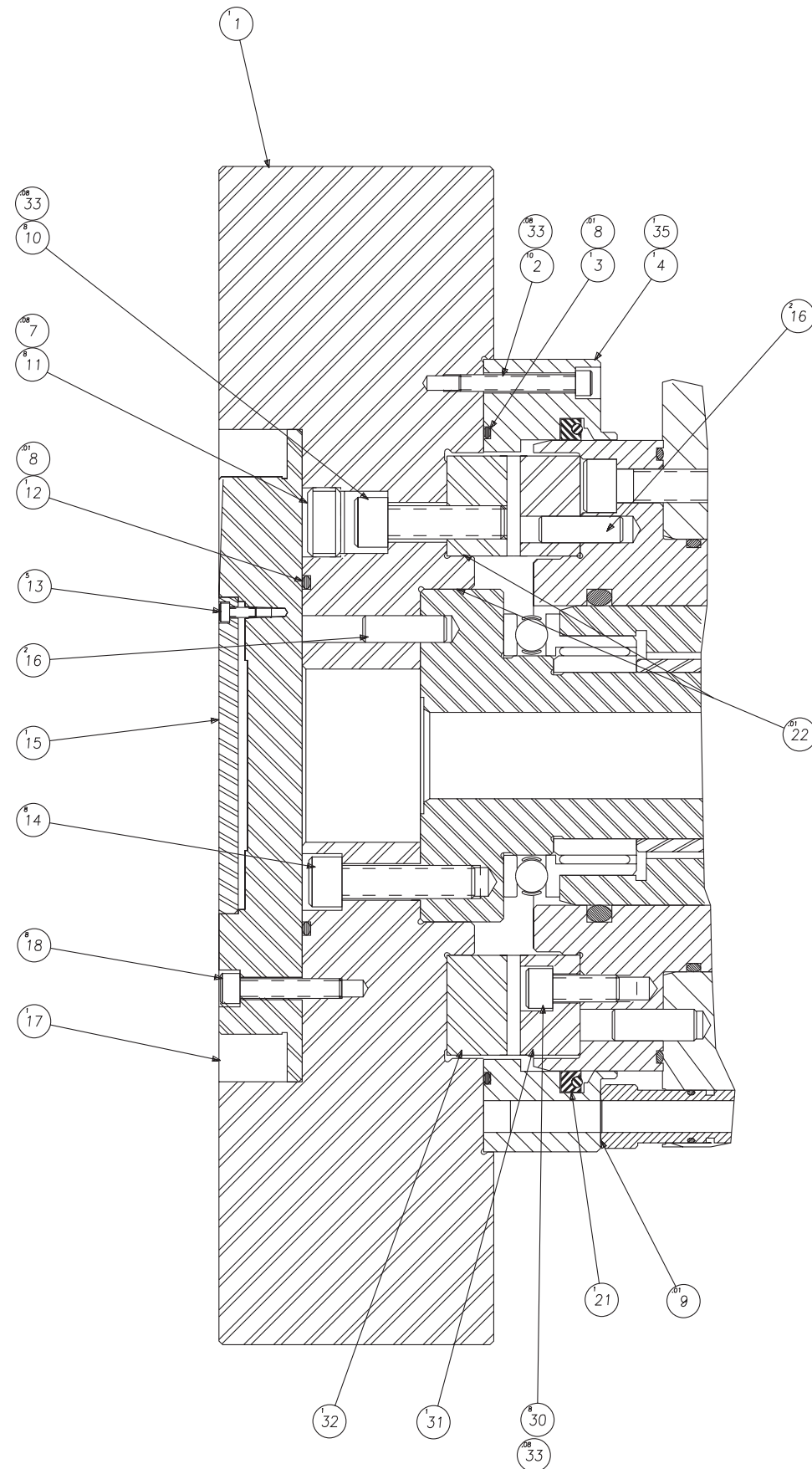


SECTION A-A



NAME	TOP PLATE ASSEMBLY	PART NUMBER	SG-0007214-M1
	10 STATION METRIC	SHEET	1 of 3

Turret Top Plate Assembly, Metric, 10 Station



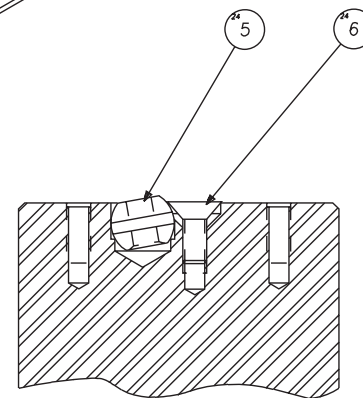
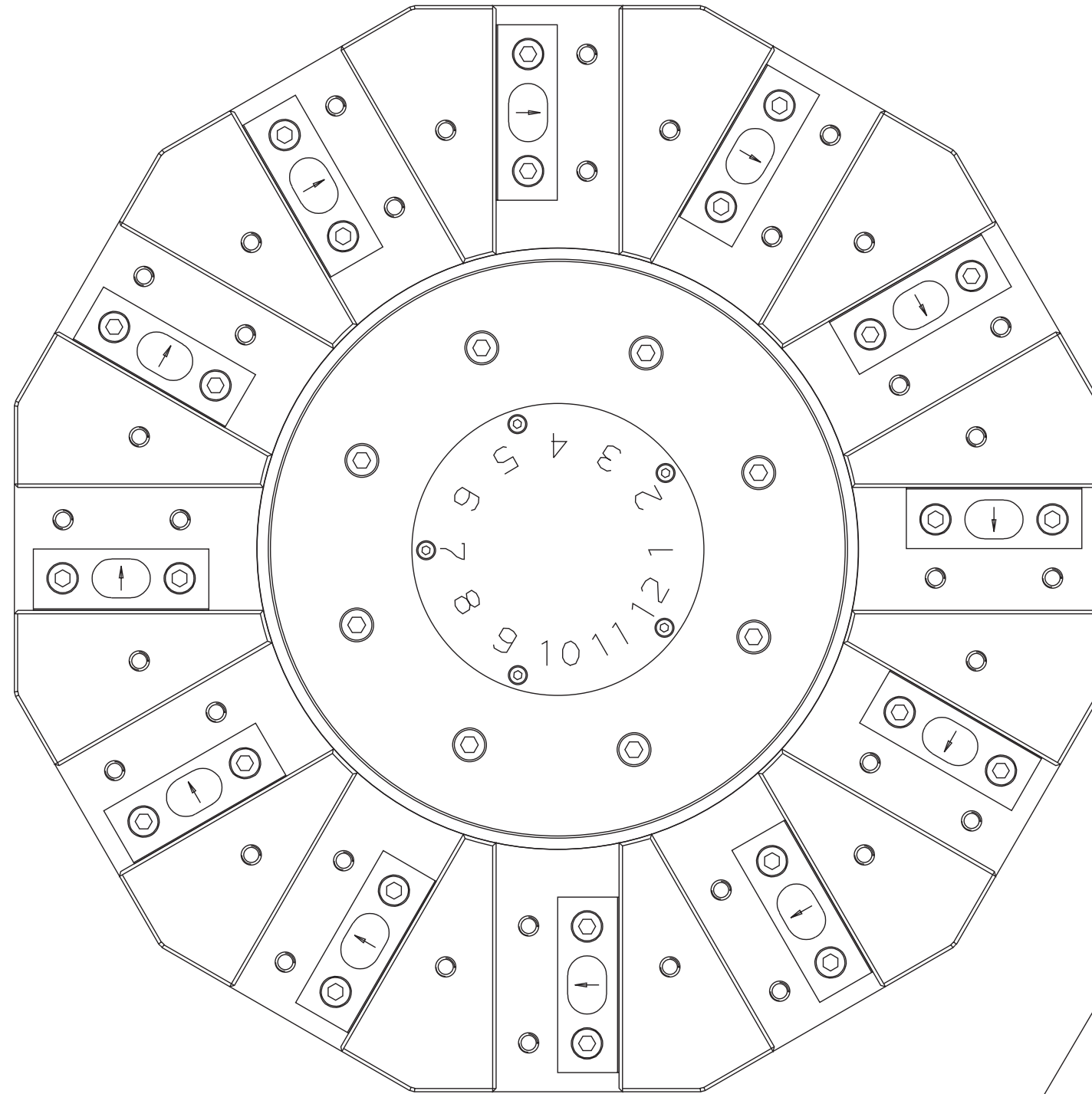
35	CD-0004629	1	PIN, DOWEL
34	CS-0011944-CM	10	CLAMP, TOOL ASSEM METRIC
33	NC-0010884	0	LOCTITE ADHESIVE
32	SG-0011792-3T	1	COUPLING, TOP PLATE 10 ST
31	CS-0011792-3H	1	COUPLING, HOUSING 10 STAT
30	MS-0103818	8	SCREW
22	VS-0010440	0	GREASE, ANTI-SEIZE
21	CS-0011198-15	1	SEAL, POLYPAK
20	RF-0011971	1	BAG, MAIL
18	MS-0103619	8	SCREW
17	SG-0010419-4M	1	STOP, TOOL 20MM
16	NC-0006709	4	PIN, DOWEL
15	CS-0010419-A	1	NAME PLATE, 10 STATION
14	MS-0104022	8	SCREW
13	MS-0103314	5	SCREW
12	CS-0009431-07	1	O-RING
11	SG-0001914	8	PLUG, 1/2-14 BSPP
10	MS-0104021	8	SCREW
9	CS-0010994	0	GREASE, M55
8	RF-0010994	0	GREASE, SILICON
7	LT-0010884-S	0	SEALANT, PIPE
6	MS-0313616	20	SCREW,FLAT HEAD
5	CSA-0006058-01	20	BALL, COOLANT
4	SG-0009813	1	COOLANT RING, 10 STATION
3	OR-0120123	1	O-RING
2	MS-0103521	10	SCREW
1	SG-0007214-01	1	TOP PLATE, 10 STA 20MM
ITEM	PART NUMBER	QTY	DESCRIPTION

20

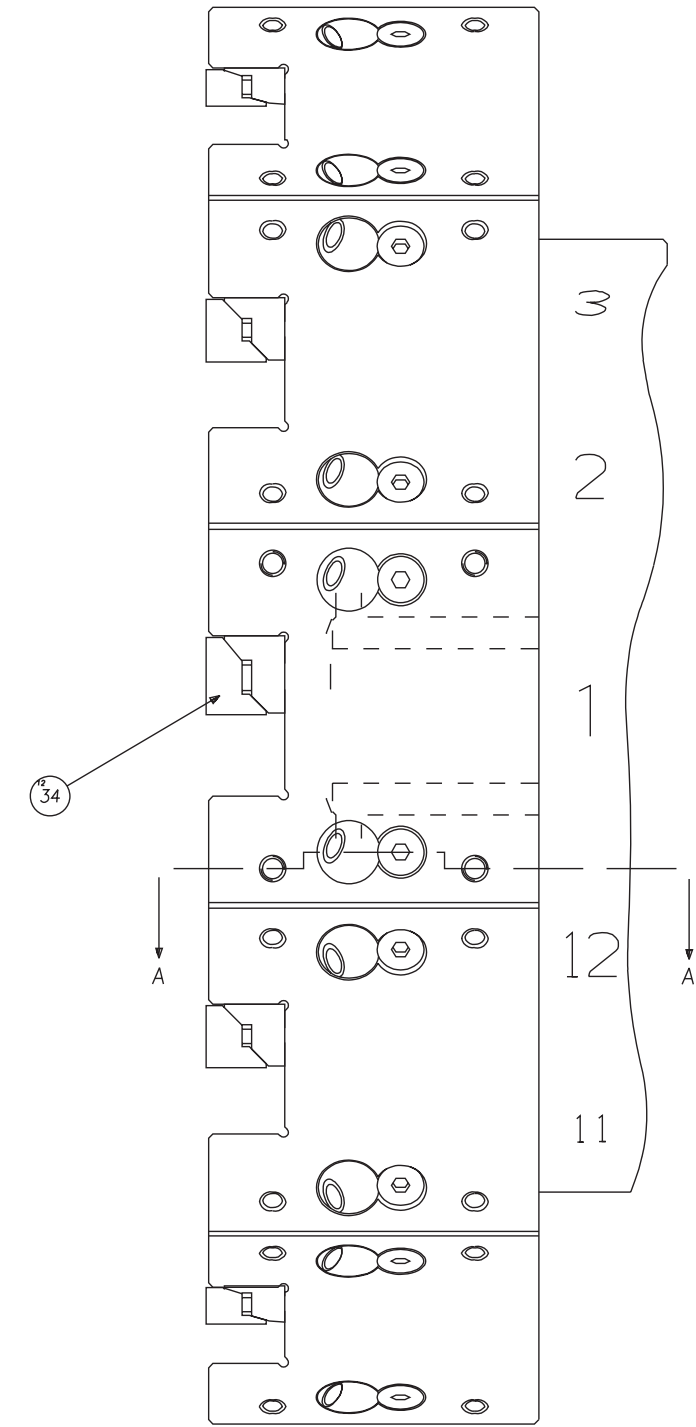
NAME
TOP PLATE ASSEMBLY
10 STATION METRIC

PART NUMBER
SG-0007214-M1
SHEET 2 OF 3

Turret Top Plate Assembly, Metric, 12 Station



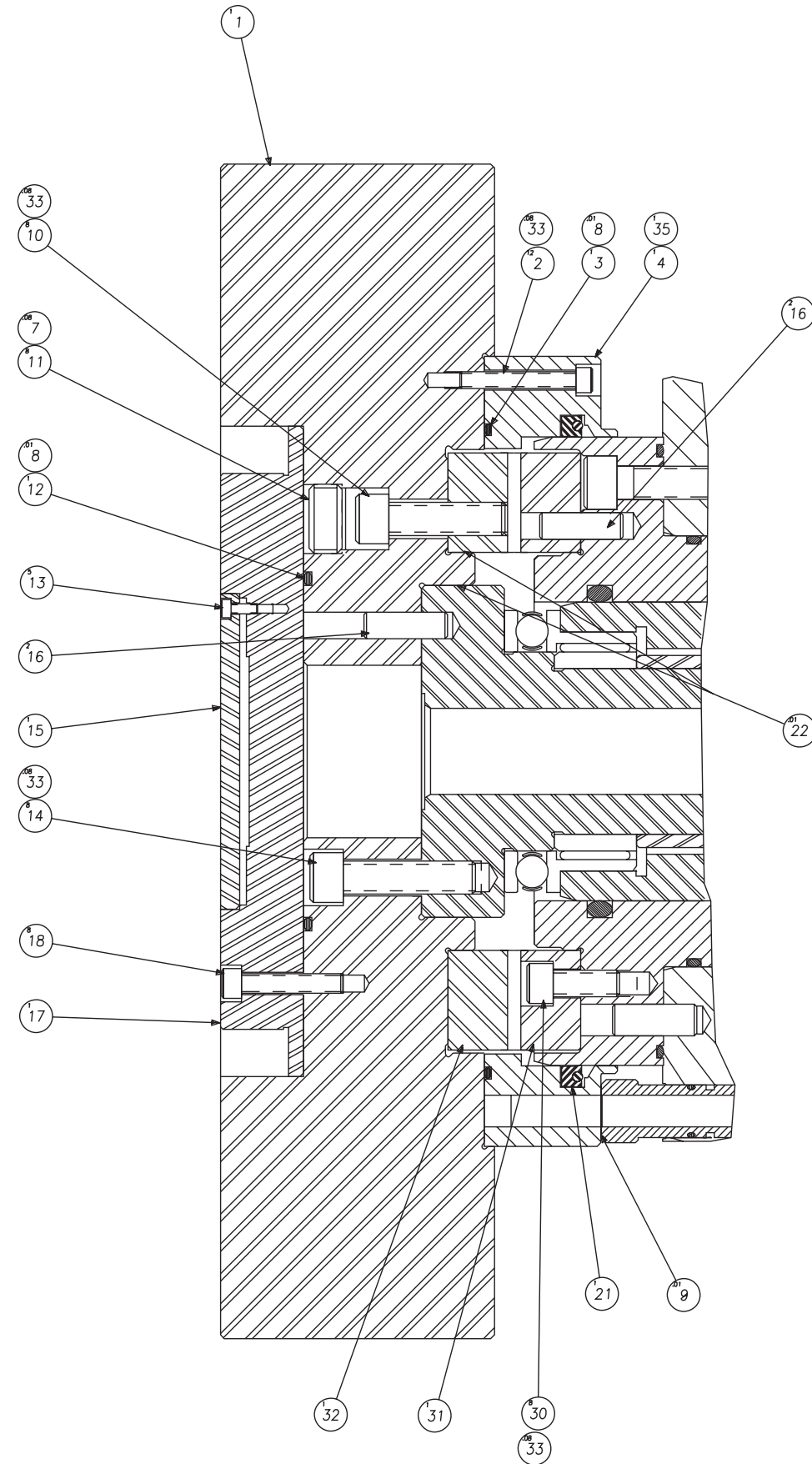
SECTION A-A



NAME
TOP PLATE ASSEMBLY

PART NUMBER
SG-0007214-M
SHEET 1 of 3

Turret Top Plate Assembly, Metric, 12 Station



ITEM	PART NUMBER	QTY	DESCRIPTION
35	CD-0004629	1	PIN, DOWEL
34	CS-0011944-CM	12	CLAMP, TOOL ASSEM
33	NC-0010884	0	LOCTITE ADHESIVE
32	SG-0011792-4T	1	COUPLING, TOP PLATE 12 ST
31	CS-0011792-4H	1	COUPLING, HOUSING 12 STAT
30	MS-0103818	8	SCREW
22	VS-0010440	0	GREASE, ANTI-SEIZE
21	CS-0011198-15	1	SEAL, POLYPAK
20	RF-0011971	1	BAG, MAIL
18	MS-0103619	8	SCREW
17	SG-0010419-4M	1	STOP, TOOL
16	NC-0006709	4	PIN, DOWEL
15	CS-0010419-A1	1	NAME PLATE, 12 STATION
14	MS-0104022	8	SCREW
13	MS-0103314	5	SCREW
12	CS-0009431-07	1	O-RING
11	SG-0001914	8	PLUG, 1/2-14 BSPP
10	MS-0104021	8	SCREW
9	CS-0010994	0	GREASE, M55
8	RF-0010994	0	GREASE, SILICON
7	LT-0010884-S	0	SEALANT, PIPE
6	MS-0313616	24	SCREW,FLAT HEAD
5	CSA-0006058-01	24	BALL, COOLANT
4	SG-0009813-01	1	COOLANT RING, 12 STATION
3	OR-0120123	1	O-RING
2	MS-0103521	12	SCREW
1	SG-0007214-05	1	TOP PLATE, 12 STA. 3/4 SQ

20

NAME TOP PLATE ASSEMBLY PART NUMBER SG-0007214-M SHEET 2 of 3



“Performance Has Established Leadership for Hardinge”®

Hardinge Inc.

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