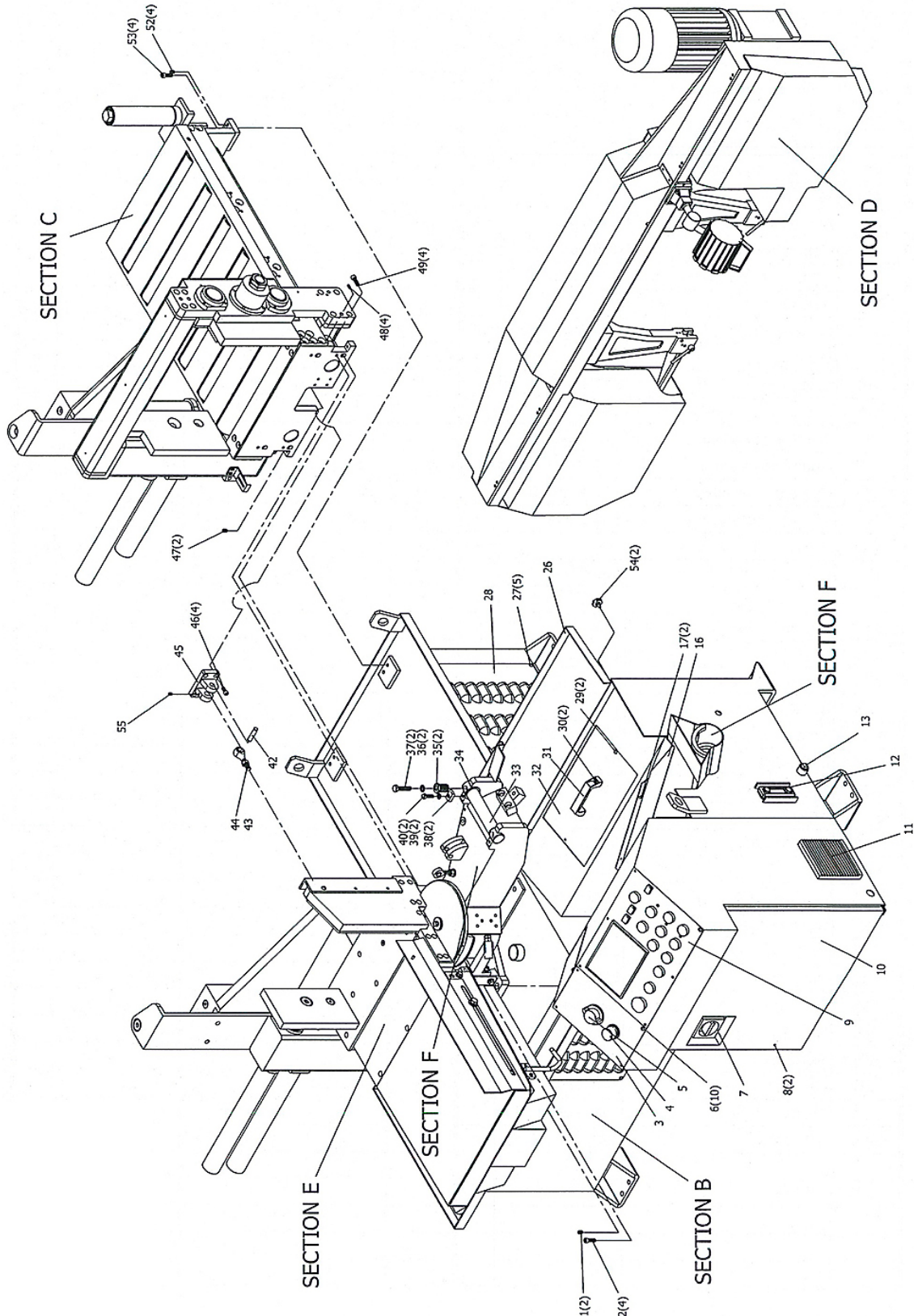




SECTION A PARTS DIAGRAM





Section A Parts List

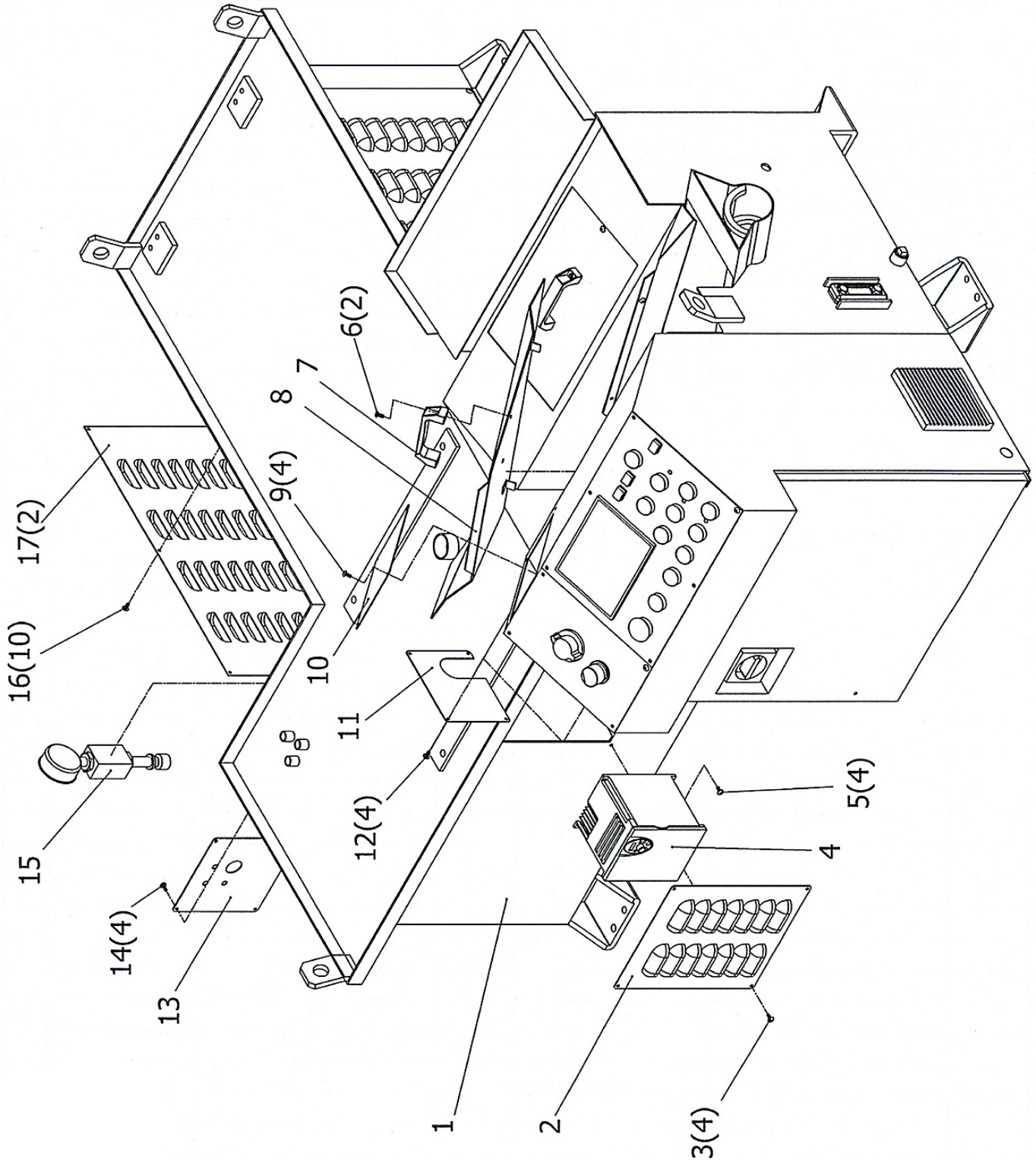
Index No	Part no	Description	Size	Qty.
1	TS-0273042	Socket Set Screw	1/2"x3/4"L	2
2	TS-0211061	Socket Head Cap Screw	1/2"x1-1/4"L	4
3	BS20A-A3	Hydraulic Control Panel	NP2E300	1
4	BS20A-A4	Cutting Rate Knob	L25A2-01	1
5	BS20A-A5	Pressure Regulator Knob	L25A1-42	1
6	TS-0813032	Phillips Round Head Screw	1/4"x1/2"L	10
7	BS20A-A7	Main Power Switch		1
8	BS20A-A8	Big Round Head Screw	1/4"x1/2"L	2
9	BS20A-A9	Control Panel	NP2E305	1
10	BS20A-A10	Control Cabinet Door	S138F3-01-H	1
11	BS20A-A11	Radiation Device		2
12	BS20A-A12	Oil Level Gauge	9160418	1
13	BS20A-A13	Drain Screw	PT 3/4"	1
16	BS20A-A16	Side Plate	S138F3-03-A	1
17	TS-081C032	Phillips Round Head Screw	3/16"x1/2"L	2
26	BS20A-A26	Coolant Tray (Rear)	S138F3-24	1
27	TS-081C032	Phillips Round Head Screw	3/16"x1/2"L	10
28	BS20A-A28	Hydraulic Unit Cover	S138F3-01-B	1
29	TS-081C032	Phillips Round Head Screw	3/16"x1/2"L	2
30	TS-0813032	Phillips Round Head Screw	1/4"x1/2"L	2
31	BS20A-A31	Plastic Handle	9160502	1
32	BS20A-A32	Coolant Cover	S138F3-01-E	1
35	BS20A-A35	Adjusting Screw	S13802-23	2
36	TS-0720111	Spring Washer	1/2"	2
37	TS-0070071	Hex Cap Screw	1/2"x2-1/2"L	2
38	BS20A-A38	Press Plate	S13802-27	2
39	TS-0720091	Spring Washer	3/8"	2
40	TS-0060031	Hex Cap Screw	3/8"x3/4"L	2
42	BS20A-A42	Support Shaft	S138F2-18	1
43	TS-154010	Nut	M16	1
44	BS20A-A44	Fish Eye Bearing	POS16	1
45	BS20A-A45	Cylinder Support Device	S138F1-03	1
46	TS-0209051	Socket Head Cap Screw	3/8"x1"L	4



Index No	Part no	Description	Size	Qty.
47	TS-0271121	Socket Set Screw	3/8"x3/4"L	2
48	TS-0271121	Socket Set Screw	3/8"x3/4"L	4
49	TS-0211061	Socket Head Cap Screw	1/2"x1-1/4"L	4
52	TS-0271121	Socket Set Screw	3/8"x3/4"L	4
53	TS-0211061	Socket Head Cap Screw	1/2"x1-1/4"L	4
54	BS20A-A54	Thumb Screw	1/4"x1/2"L	2
55	TS-0267022	Socket Set Screw	1/4"x1/4"L	1



SECTION B PARTS DIAGRAM

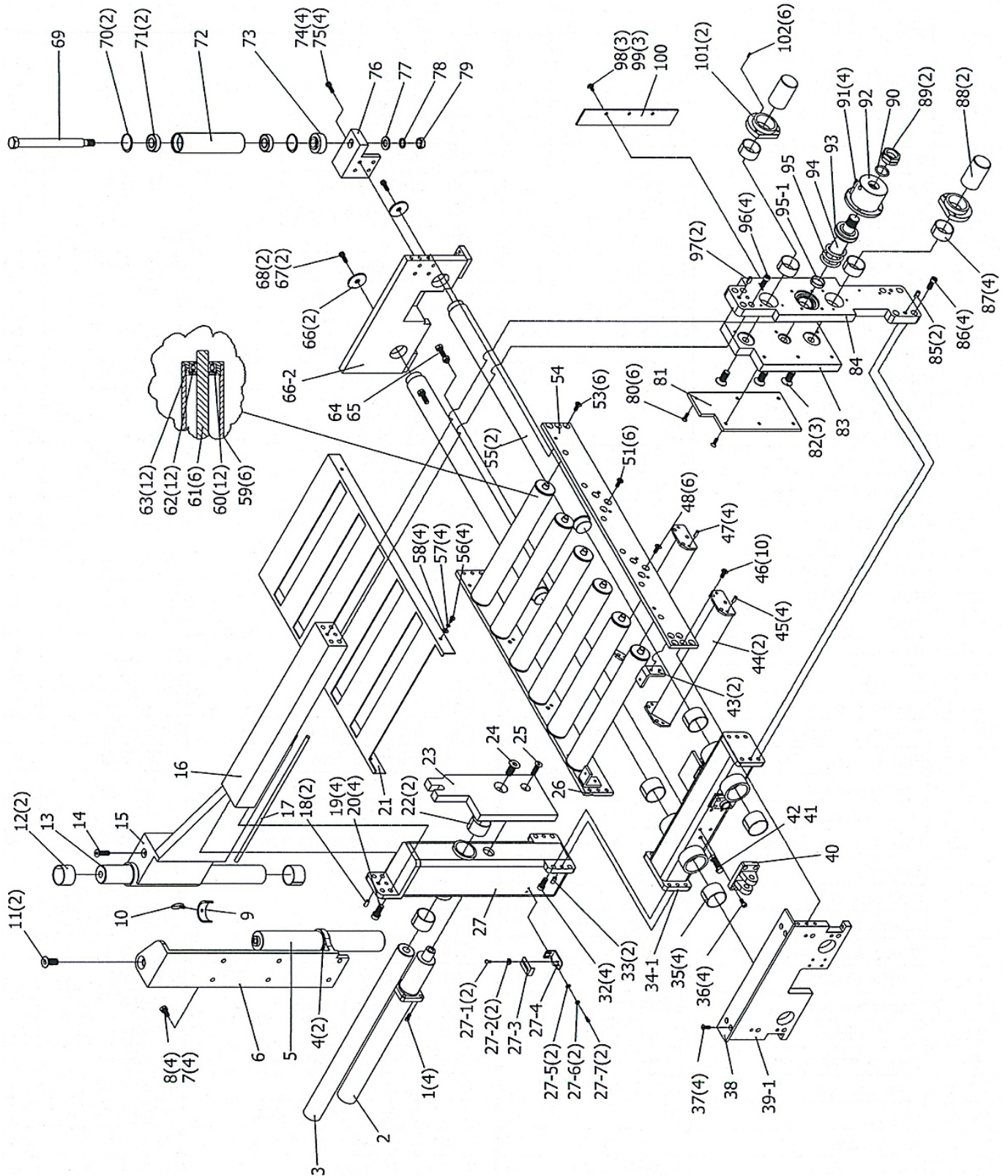




Section B Parts List

Index No	Part No	Description	Size	Qty.
1	BS20A-B1	Machine Base	S138F3-01	1
1-1	BS20A-B1-1	Inverter	5HP/ 230V / 3Ph	1
1-2	TS-081B032	Phillips Round Head Screw	5/32"x1/2"L	4
2	BS20A-B2	Inverter Cover	S138F3-01-C	1
3	TS-081C032	Phillips Round Head Screw	3/16"x1/2"L	4
6	BS20A-B6	Big Round Head Screw	1/4"x1/2"L	2
7	BS20A-B7	Plastic Handle	9160502	1
8	BS20A-B8	Side Plate	S138F3-03-B	1
9	BS20A-B9	Big Round Head Screw	3/16"x1/2"L	4
10	BS20A-B10	Upper Cover	S138F3-01-G	1
11	BS20A-B11	Left Cover	S138F3-01-F	1
12	BS20A-B12	Big Round Head Screw	3/16"x1/2"L	4
13	BS20A-B13	Line Fixed Plate	S138F3-01-D	1
14	BS20A-B14	Big Round Head Screw	3/16"x1/2"L	4
14-1	BS20A-B14-1	Cover	S138F3-42B	1
14-2	BS20A-B14-2	Socket Head Button Screw	3/16"x3/8"L	4
14-3	TS-1502071	Socket Head Cap Screw	M5x30L	4
15	BS20A-B15	Pressure Regulator		1
15-1	TS-1502071	Socket Head Cap Screw	M5x30L	2
15-2	BS20A-B15-2	Manifold Block		1
15-3	TS-2246082	Socket Head Button Screw	M6x8L	4
15-4	BS20A-B15-4	Pressure Regulator Fixation	460D3-22	1
16	BS20A-B16	Big Round Head Screw	3/16"x1/2"L	10
17	BS20A-B17	Hydraulic Unit Cover	S138F3-01-B	2

SECTION C PARTS DIAGRAM





Section C Parts List

Index No	Part No.	Description	Size	Qty.
1	TS-0209062	Socket Head Cap Screw	3/8"x1-1/4"L	4
2	BS20A-C2	Front Cylinder		1
3	BS20A-C3	Upper Shaft	S138F2-03	1
4	BS20A-C4	C Ring	S60	2
5	BS20A-C5	Vertical Cylinder		1
6	BS20A-C6	Fixed Bracket	S138F3-08	1
7	TS-0720111	Lock Washer	1/2"	4
8	TS-0070011	Hex Cap Screw	1/2"x1"L	4
9	BS20A-C9	Safety Collar	S1318F2-16	1
10	BS20A-C10	Ring Screw	M8	1
11	BS20A-C11	Socket Head Flat Screw	3/4"x1-1/4"L	2
12	BS20A-C12	Oilless Bush 5540	BB2067	2
13	BS20A-C13	Guide Shaft	S138F2-02	1
14	BS20A-C14	Socket Head Flat Screw	1/2"x3/4"L	1
15	BS20A-C15	Down Bracket	S138F3-09	1
16	BS20A-C16	Upper Bracket	S138F3-11	1
17	BS20A-C17	Plastic Wire	D10	1
18	BS20A-C18	Spring Pin	10x30L	2
19	TS-0211062	Socket Head Cap Screw	1/2"x1-1/4"L	4
20	TS-0720111	Lock Washer	1/2"	4
21	BS20A-C21	Roller Cover	S138F3-04	1
22	BS20A-C22	Oilless Bush 5540	BB2067	2
23	BS20A-C23	Front Vise	S138F2-07	1
24	BS20A-C24	Socket Head Flat Screw	3/4"x1"L	1
25	BS20A-C25	Socket Head Flat Screw	1/2"x1-1/4"L	1
26	BS20A-C26	Roller Holder (L)	S138F2-04-C	1
27	BS20A-C27	Cylinder Bracket	S138F3-10	1
27-1	TS-0254021	Socket Head Button Screw	1/4"x1/2"L	2
27-2	BS20A-C27-2	Flat Washer	1/4"	2
27-3	BS20A-C27-3	Adjusting Plate	S138F3-21-C	1
27-4	BS20A-C27-4	Adjusting Bracket	S138F3-21-B	1
27-5	BS20A-C27-5	Flat Washer	1/4"	2
27-6	TS-0720071	Lock Washer	1/4"	2
27-7	TS-0207021	Socket Head Cap Screw	1/4"x1/2"L	2



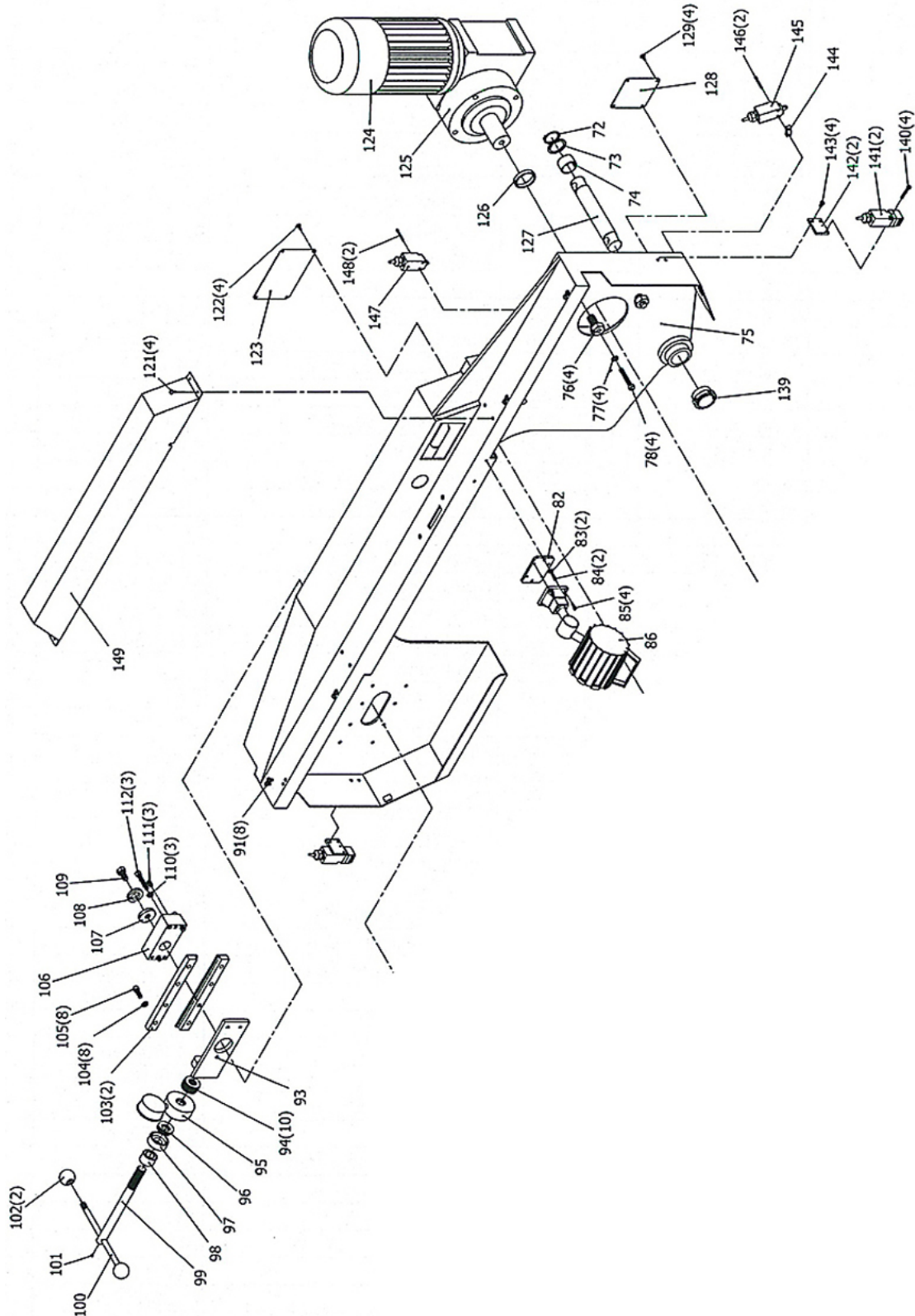
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32	TS-0211062	Socket Head Cap Screw	1/2"x1-1/4"L	4
33	BS20A-C33	Spring Pin	10x30L	2
34-1	BS20A-C34-1	Rod Supporter	S138F3-12-A	1
35	BS20A-C35	Oilless Bush 6040	BB2068	4
36	TS-0209022	Socket Head Cap Screw	3/8"x5/8"L	4
37	TS-0246031	Socket Head Flat Screw	5/16"x3/4"L	4
38	BS20A-C38	Upper Bracket	S138F2-04-D	1
39-1	BS20A-C39-1	Front Bracket	S138F2-04-E	1
40	BS20A-C40	Cylinder Connecting	S138F1-03	1
41	TS-0070071	Hex Cap Screw	1/2"x2-1/2"L	1
42	TS-0561052	Nut	1/2"	1
43	BS20A-C43	Angle Plate	S138F3-04-B	2
44	BS20A-C44	Enhance Plate	S138F3-04-A	2
45	BS20A-C45	Spring Pin	8x20L	4
46	BS20A-C46	Socket Head Flat Screw	3/8"x1"L	10
47	BS20A-C47	Spring Pin	8x20L	4
48	BS20A-C48	Socket Head Flat Screw	3/8"x1"L	6
51	BS20A-C49	Socket Head Flat Screw	3/8"x1"L	6
53	BS20A-C50	Socket Head Flat Screw	3/8"x1"L	6
54	BS20A-C51	Roller Holder (R)	S138F2-04-B	1
55	BS20A-C52	Feeding Rod	S138F2-01	2
56	TS-0051011	Hex Cap Screw	5/16"x1/2"	4
57	TS-0720081	Lock Washer	5/16"	4
58	BS20A-C55	Flat Washer	5/16"	4
59	BS20A-C56	Roller	S138 02-07-A	6
60-1	BS20A-C60-1	C Ring		12
61	BS20A-C61	Roller Shaft	S138F2-14	6
62-1	BS20A-C62-1	Bearing		12
63-1	BS20A-C63-1	Sleeve		12
64	BS20A-C64	Steel Hex. Cap Bolt	1/2"x1-3/4"L	1
65	TS-0561052	Nut	1/2"	1
66	BS20A-C66	Washer	S138F2-01-A	2
66-1	BS20A-C66-1	Roller Bracket (Rear)	S138F2-04-F	1
67	BS20A-C67	Steel Hex. Cap Bolt	1/2"x1-1/4"L	2
68	TS-0720111	Lock Washer	1/2"	2



Index No	Part No.	Description	Size	Qty.
69	BS20A-C69	Roller Shaft	S138 02-18-A	1
70	BS20A-C70	C Ring	R52	2
71	BB6205	Ball Bearing	6205	2
72	BS20A-C72	Vertical Roller	S138 02-18	1
73	BS20A-C73	Roller Sleeve	S138 02-18-B	1
74	BS20A-C74	Steel Hex. Cap Bolt	3/8"x1"L	4
75	TS-0720091	Lock Washer	3/8"	4
76	BS20A-C76	Vertical Roller Bracket	S138F3-23	1
77	BS20A-C77	Flat Washer	3/4"	1
78	TS-0720141	Lock Washer	3/4"	1
79	TS-0561081	Nut	3/4"	1
80	TS-0246031	Socket Head Flat Screw	5/16"x3/4"	6
81	BS20A-C81	Vise Steel Plate	S138F2-08-A	1
82	BS20A-C82	Socket Head Flat Screw	3/4"x1-1/4"L	3
83	BS20A-C83	Feeding Fixed Vise	S138F2-08	1
84	BS20A-C84	Vise Locking Bracket	S138F2-09	1
85	BS20A-C85	Spring Pin	10x30L	2
86	TS-0211062	Socket Head Cap Screw	1/2"x1-1/4"L	4
87	BS20A-C87	Oilless Bush 5530	BB2066	4
88	BS20A-C88	Upper Shaft	S138F2-15-B	2
89	BS20A-C89	Nut	S138F2-20	2
90	BS20A-C90	O Ring P35	S1380510	1
91	TS-0208062	Socket Head Cap Screw	5/16"x1"L	4
92	BS20A-C92	Cylinder Sleeve	S138F2-15-A	1
93	BS20A-C93	O Ring P60	L25A5-47	1
94	BS20A-C94	Short Cylinder Piston	S138F2-15	1
95	BS20A-C95	Spring	S138F4-05	1
95-1	BS20A-C95-1	Oilless Bushing 4015	BB2098	1
96	TS-0211062	Socket Head Cap Screw	1/2"x1-1/4"	4
97	BS20A-C97	Spring Pin	10x30L	2
98	TS-0720081	Lock Washer	5/16"	3
99	TS-0255061	Socket Head Button Screw	5/16"x1"L	3
100	BS20A-C100	Guide Plate	S138F3-19	1
101	BS20A-C101	Shaft Collar	S138F2-15-C	2
102	TS-0207061	Socket Head Cap Screw	1/4"x1"L	6

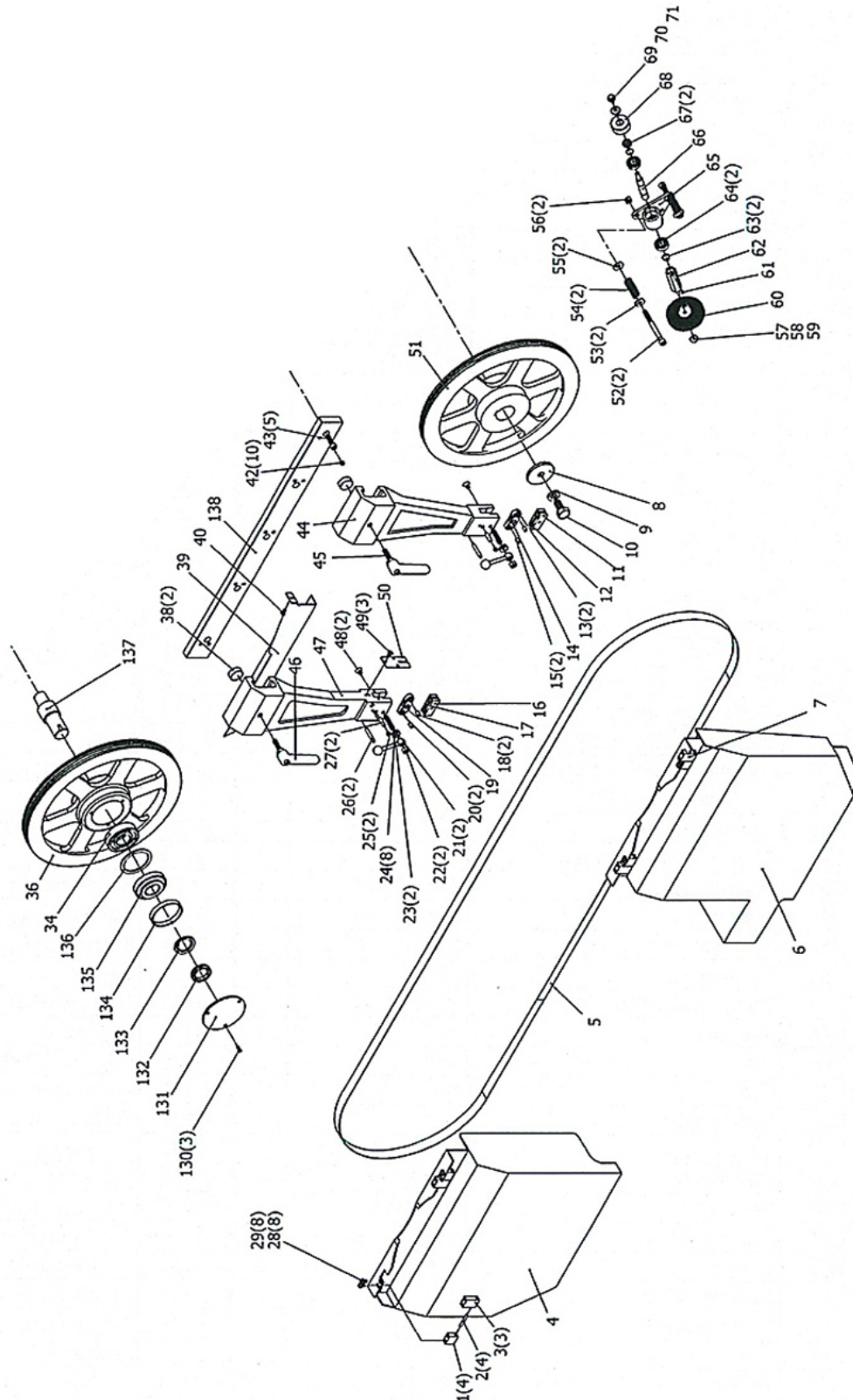


SECTION D PARTS DIAGRAM - 1





SECTION D PARTS DIAGRAM - 2





Section D Parts List

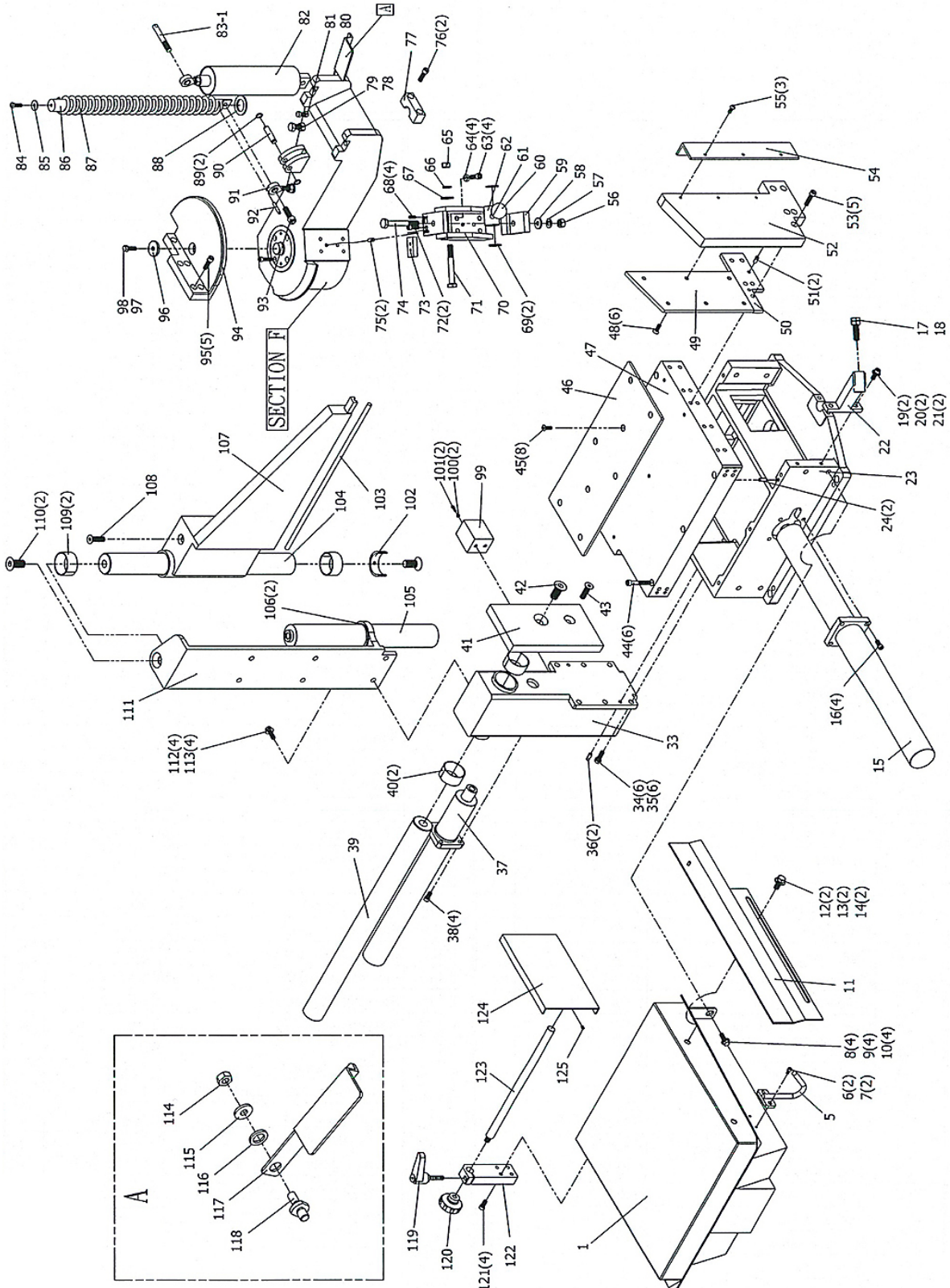
Index No.	Part No	Description	Size	Qty.
1	BS20A-D1	Cover Latch (F)	S138 02-19-1	4
2	BS20A-D2	Pin	5x50L	4
3	BS20A-D3	Cover Latch (R)	S138 02-19	3
4	BS20A-D4	Front Wheel Cover	S138 03-04-1	1
5	BS20A-D5	Blade	27x4130x0.9	1
6	BS20A-D6	Rear Wheel Cover	S138 03-04-2	1
7	BS20A-D7	Rear Latch	S138 02-19-2	1
8	BS20A-D8	Wheel Washer	S138 02-14-2	1
9	TS-0720141	Lock Washer	3/4"	1
10	BS20A-D10	Hex Cap Screw	5/8"x1-1/4"L	1
11	BS20A-D11	Adjustable Guide	S138 02-12-3	1
12	BS20A-D12	Fixed Guide	S138 02-12-2	1
13	BB608	Ball Bearing	608	2
14	BS20A-D14	Bearing Bracket	S138 03-14	1
15	BS20A-D15	Pin	8x12L	2
16	BS20A-D16	Adjustable Guide	S138 02-12-3	1
17	BS20A-D17	Fixed Guide	S138 02-12-2	1
18	BS20A-D18	Pin	8x12L	2
19	BS20A-D19	Bearing Bracket	S138 03-14	1
20	BB608	Ball Bearing	608	2
21	BS20A-D21	Adjusting Screw	S138 02-12-1	2
22	TS-0561031	Nut	3/8"	2
23	BS20A-D23	Locking Handle	S138 02-12	2
24	BS20A-D24	Disc Washer	S1380414- 201010	8
25	BS20A-D25	Socket Set Screw	3/8"x3/8"L	2
26	BS20A-D26	Spring Pin	6x45L	2
27	BS20A-D27	Pin	8x25L	2
28	BS20A-D28	Socket Head Button Screw	1/4"x1/2"L	8
29	TS-0720071	Lock Washer	1/4"	8
34	BB6307	Ball Bearing	6307	1
36	BS20A-D36	Front Wheel	S138 01-04	1
38	BS20A-D38	Lock Brass	S138 02-16	2
39	BS20A-D39	Blade Guard	S138 03-17	1



Index No.	Part No	Description	Size	Qty.
40	BS20A-D40	Socket Head Button Screw	1/4"x1/2"L	1
42	BS20A-D42	Socket Set Screw	3/8"x3/4"L	10
43	TS-0209051	Socket Head Cap Screw	3/8"x1"L	5
44	BS20A-D44	Blade Guide Arm (R)	S138 01-07	1
45	BS20A-D45	Locking Handle	1/2"x40L	1
46	BS20A-D45	Locking Handle	1/2"x40L	1
47	BS20A-D47	Blade Guide Arm (F)	S138 01-06	1
48	TS-0246031	Socket Head Flat Screw	5/16"x3/4"L	2
49	BS20A-D49	Socket Head Button Screw	1/4"x1/2"L	3
50	BS20A-D50	Coolant Cover	S138 03-13	1
51	BS20A-D51	Rear Wheel	S138 01-05	1
52	TS-0209161	Socket Head Cap Screw	3/8"x4"	2
53	TS-0680041	Flat Washer	3/8"	2
54	BS20A-D54	Compress Spring	S138 04-09	2
55	TS-0680041	Flat Washer	3/8"	2
56	TS-0561031	Nut	3/8"	2
57	TS-0570011	Nut	1/4"	1
58	TS-0680021	Flat Washer	1/4"	1
59	TS-0720071	Lock Washer	1/4"	1
60	BS20A-D60	Chip Brush	331D4-08	1
61	TS-0267021	Socket Set Screw	1/4"x1/4"L	1
62	BS20A-D62	Brush Shaft	S138 02-15-1	1
63	BS20A-D63	C Ring	S15	2
64	BB6002	Ball Bearing	6002	2
65	BS20A-D65	Brush Bracket	S138 03-16	1
66	BS20A-D66	Shaft	S138 02-15	1
67	BS20A-D67	Rubber Cover	331D2-42-1	2
68	BS20A-D68	Brush Wheel	S138 02-15-2	1
69	TS-0680021	Flat Washer	1/4"	1
70	TS-0720071	Lock Washer	1/4"	1
71	TS-0050011	Hex Cap Screw	1/4"x1/2"L	1
72	BS20A-D72	C Ring	S38	1
73	BS20A-D73	Washer	S138 02-01-1	1



SECTION E PARTS DIAGRAM





Section E Parts List

Index No	Part No	Description	Size	Qty.
1	BS20A-E1	Retrieval Table	S138F3-06	1
5	BS20A-E5	Coolant Gun Holder	S138F3-20	1
6	TS-0207061	Socket Head Cap Screw	1/4"x1"L	2
7	TS-0720071	Lock Washer	1/4"	2
8	BS20A-E8	Hex Cap Screw	1/2"x5/8"L	4
9	TS-0720111	Lock Washer	1/2"	4
10	TS-0680061	Flat Washer	1/2"	4
11	BS20A-E11	Side Plate	S138F3-06-A	1
12	BS20A-E8	Hex Cap Screw	1/2"x5/8"L	2
13	TS-0720111	Lock Washer	1/2"	2
14	TS-0680061	Flat Washer	1/2"	2
15	BS20A-E15	Feeding Cylinder		1
16	TS-0209061	Socket Head Cap Screw	3/8"x1-1/4"L	4
17	TS-0100041	Hex Cap Screw	1/2"x1-1/4"L	1
18	TS-0561051	Nut	1/2"	1
19	TS-0209061	Socket Head Cap Screw	3/8"x1-1/4"L	2
20	TS-0720091	Lock Washer	3/8"	2
21	TS-0680041	Flat Washer	3/8"	2
22	BS20A-E22	0° Position Device	S138F3-14	1
23	BS20A-E23	Cutting Table	S138F1-01	1
24	BS20A-E24	Spring Pin	8x20L	2
33	BS20A-E33	Front Cylinder Supporter	S138F3-09	1
34	TS-0070031	Hex Cap Screw	1/2"x1-1/2"L	6
35	TS-0720111	Lock Washer	1/2"	6
36	BS20A-E36	Spring Pin	8x20L	2
37	BS20A-E37	Vise Cylinder		1
38	TS-0209061	Socket Head Cap Screw	3/8"x1-1/4"L	4
39	BS20A-E39	Upper Shaft	S138F2-03	1
40	BS20A-E40	Oilless Bush	5540	2
41	BS20A-E41	Front Vise	S138F2-05	1
42	BS20A-E42	Socket Head Flat Screw	3/4"x1-1/4"L	1
43	BS20A-E43	Socket Head Flat Screw	1/2"x1-1/4"L	1
44	TS-0209111	Socket Head Cap Screw	3/8"x2-1/2"L	6



Index No	Part No	Description	Size	Qty.
45	BS20A-E45	Socket Head Flat Screw	5/16"x3/4"L	8
46	BS20A-E46	Cutting Plate	S13802-09	1
47	BS20A-E47	Cutting Table	S13801-02	1
48	BS20A-E45	Socket Head Flat Screw	5/16"x3/4"L	6
49	BS20A-E49	Vise Steel Plate	S138F2-06-A	1
50	BS20A-E50	Attached Plate	S138F2-06-B	1
51	BS20A-E51	Spring Pin	8x20L	2
52	BS20A-E52	Rear Vise	S138F2-06	1
53	TS-0209091	Socket Head Cap Screw	3/8"x2"L	5
54	BS20A-E54	Guide Plate	S138F3-18	1
55	TS-0208041	Socket Head Cap Screw	5/16"x3/4"L	3
56	BS20A-E56	Nylon Nut	1/2"	1
57	TS-0720111	Lock Washer	1/2"	1
58	TS-0680061	Flat Washer	1/2"	1
59	BS20A-E59	Clamping Block	S13802-11-1	1
60	BS20A-E60	Bakelite Ball	1-1/2"x1/2"	1
61	BS20A-E61	Cam Handle	S13802-11-3	1
62	BS20A-E62	Locking Cam	S13802-11-2	1
63	TS-0209061	Socket Head Cap Screw	3/8"x1-1/4"L	4
64	TS-0720091	Lock Washer	3/8"	4
65	BS20A-E65	Nylon Nut	1/2"	1
66	TS-0720111	Lock Washer	1/2"	1
67	TS-0680061	Flat Washer	1/2"	1
68	TS-0267071	Socket Set Screw	1/4"x3/4"L	4
69	TS-0680061	Flat Washer	1/2"	2
70	BS20A-E70	Fixed Block	S13803-11	1
71	TS-0070131	Hex Cap Screw	1/2"x4"L	1
72	TS-0208061	Socket Head Cap Screw	5/16"x1"L	2
73	BS20A-E73	Upper Clamp Block	S13802-11	1
74	TS-0070131	Hex Cap Screw	1/2"x4"L	1
75	BS20A-E75	Spring Pin	8x20L	2
76	TS-0209071	Socket Head Cap Screw	3/8"x1-1/2"L	2
77	BS20A-E77	Locking Block	S13802-02-2	1
78	TS-0561051	Nut	1/2"	1
79	TS-0070031	Hex Cap Screw	1/2"x1-1/2"L	1



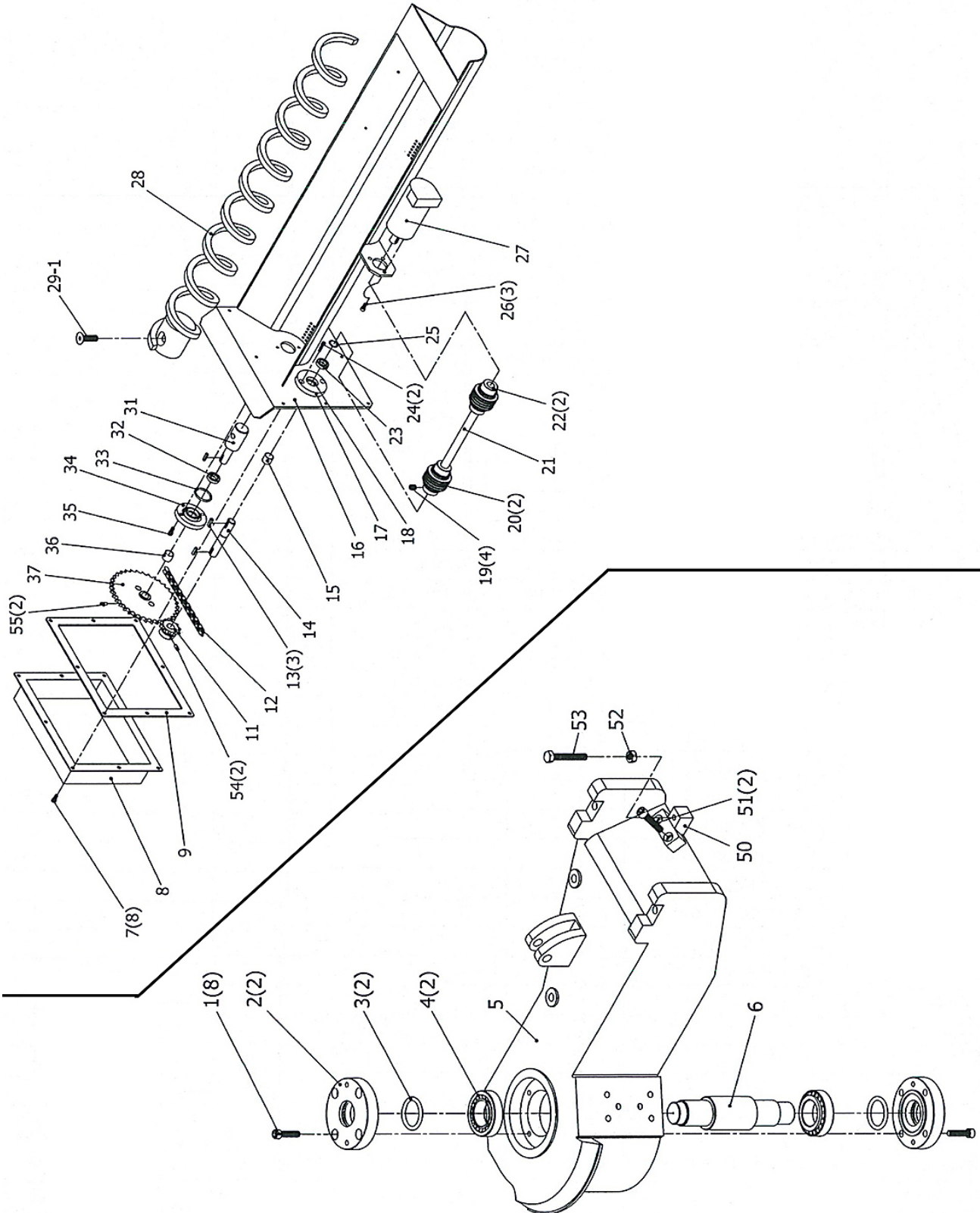
Index No	Part No	Description	Size	Qty.
80	TS-0561032	Nut	3/8"	1
81	TS-0060051	Hex Cap Screw	3/8"x1"L	1
82	BS20A-E82	Lift Cylinder		1
83-1	BS20A-E83-1	Upper Shaft	S13802-29	1
84	TS-0081051	Hex Cap Screw	5/16"x1"L	1
85	BS20A-E85	Flat Washer	S13802-22	1
86	BS20A-E86	Spring Shaft	S13802-08	1
87	BS20A-E87	Compress Spring	S13804-07	1
88-1	BS20A-E88-1	Nut	S1380208B	1
89	BS20A-E89	C Ring	S14	2
90	BS20A-E90	Lower Shaft	S13802-17	1
91	BS20A-E91	Fish Eye Bearing	1/2"x20UNF	1
92	BS20A-E92	Spring Pin	6x30L	1
93	TS-0211062	Socket Head Cap Screw	1/2"x1-1/4"L	1
94	BS20A-E94	Upper Cover	S138F1-02	1
95	TS-0209061	Socket Head Cap Screw	3/8"x1-1/4"L	5
96	BS20A-E96	Lock Washer	S13802-28	1
97	TS-0720091	Lock Washer	3/8"	1
98	TS-0060051	Hex Cap Screw	3/8"x1"L	1
99-1	BS20A-E99-1	Sensor Bracket	S138F3-42	1
99-2	BS20A-E99-2	Zero Point Sensor		1
100	TS-0720081	Lock Washer	5/16"	2
101	TS-0208021	Socket Head Cap Screw	5/16"x1/2"L	2
101-1	TS-0206022	Socket Head Button Screw	3/16"x1/2"L	2
101-2	BS20A-E101-2	Sensor Cover	S138F3-42A	1
102	BS20A-E102	Safety Collar	S138F2-16	1
103	BS20A-E103	Plastic Wire	Ø10	1
104	BS20A-E104	Guide Shaft	S138F2-02	1
105	BS20A-E105	Press Cylinder		1
106	BS20A-E106	C Ring	S60	2
107	BS20A-E107	Press Bracket	S138F3-07	1
108	BS20A-E108	Socket Head Flat Screw	1/2"x3/4"L	1
109	BS20A-E40	Oilless Bush	5540	2
110	BS20A-E42	Socket Head Flat Screw	3/4"x1-1/4"L	2
111	BS20A-E111	Press Fixed Bracket	S138F3-08	1



Index No	Part No	Description	Size	Qty.
112	TS-0720111	Lock Washer	1/2"	4
113	TS-0070011	Hex Cap Screw	1/2"x1"L	4
114	BS20A-E114	Nylon Nut	3/8"	1
115	BS20A-E115	Position Washer	S138F2-26-A	1
116	BS20A-E116	Position Plastic Washer	S138F2-26-B	1
117	BS20A-E117	Adjusting Plate	S138F3-29	1
118	BS20A-E118	Adjusting Screw	S138F2-26	1
119	BS20A-E119	Handle	3/8"x30L	1
120	BS20A-E120	Bakelite Ball	2"x1/2"	1
123	BS20A-E123	Rod	S138F2-24	1
124-1	BS20A-E124-1	Left Plate	S138F3-40	1
124-2	BS20A-E124-2	Left Bracket	S138F2-31-A	1
125	TS-0270031	Socket Set Screw	5/16"x3/8"L	1
126	TS-0208041	Socket Head Cap Screw	5/16"x3/4"L	2
127	TS-0720081	Lock Washer	5/16"	2
128	TS-0208081	Socket Head Cap Screw	5/16"x1-1/2"L	4
129	BS20A-E129	Position Block	S138F2-31	1
130	BS20A-E130	Cover	S138F2-31-B	1
131	BS20A-E131	Handle	M10x30L	1



SECTION F PARTS DIAGRAM





Section F Parts List

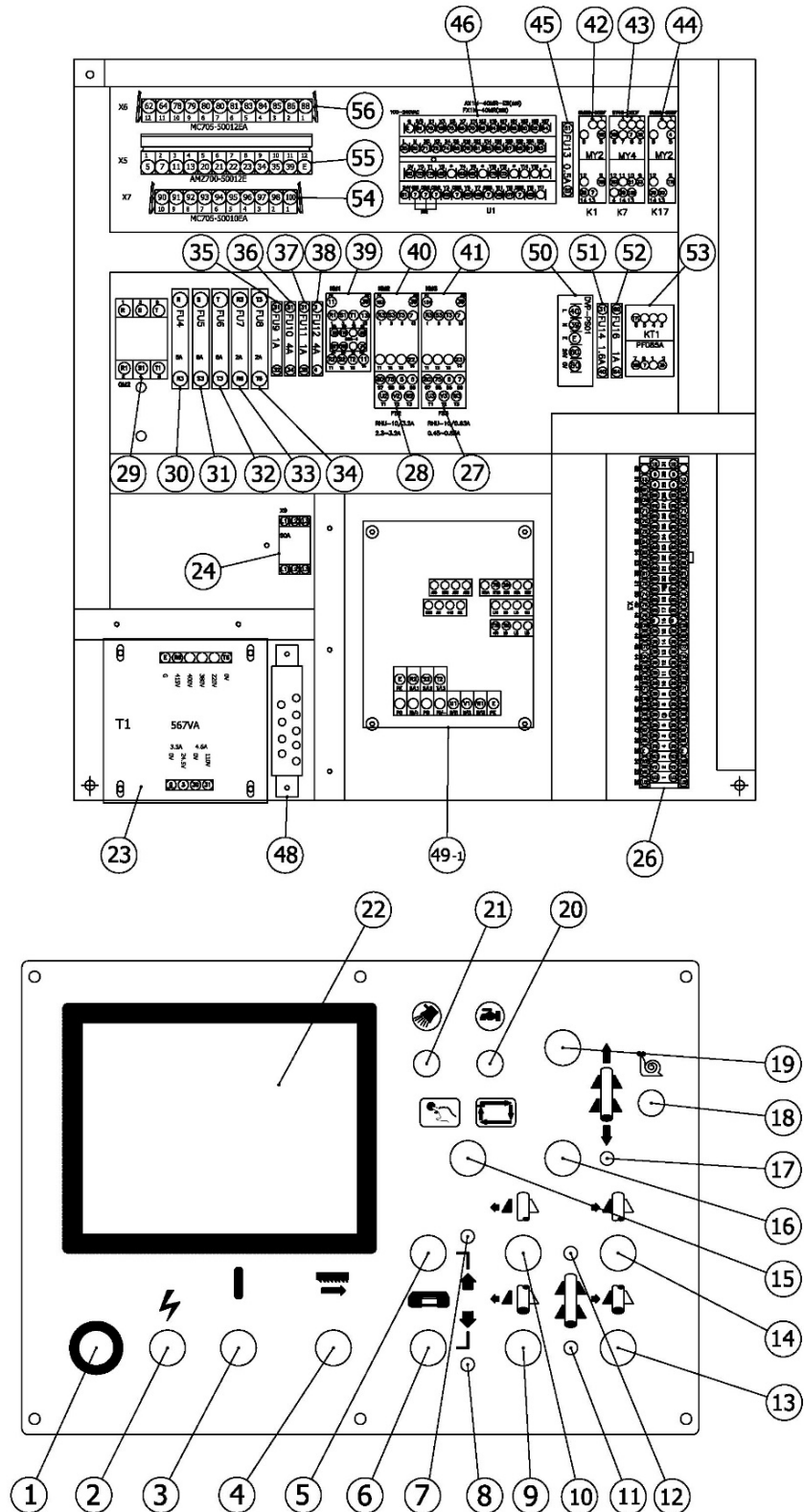
Index No	Part No	Description	Size	Qty.
1	TS-0208081	Socket Head Cap Screw	5/16"x1-1/2"L	8
2	BS20A-F2	Swing Cover	S13802-02-1	2
3	BS20A-F3	O Ring	P35	2
4	BB32007	Ball Bearing	32007	2
5	BS20A-F5	Swing Base	S13801-03	1
6	BS20A-F6	Swing Shaft	S13802-02	1
7	TS-0207022	Socket Head Cap Screw	1/4"x1/2"L	8
8	BS20A-F8	Chain Wheel Cover	L25A3-09-A	1
9	BS20A-F9	Rubber Seal	L25A5-38	1
11	BS20A-F11	Small Chain Wheel	L25A2-62	1
12	BS20A-F12	Chain	L25A5-28	1
13	BS20A-F13	Key	M5x20L	3
14	BS20A-F14	Small Shaft	L25A2-63	1
15	BS20A-F15	Oilless Bush	1625	1
16	BS20A-F16	Conveyer Base	L25A3-06-A	1
17	BS20A-F17	Small Shaft Bush	L25A2-63A	1
18	BS20A-F18	O Ring	P-32	1
19	TS-1523011	Socket Set Screw	M6x6L	4
20	BS20A-F20	Rubber Cover	L25A4-03-1	2
21	BS20A-F21	Drive Shaft	L25A2-64	1
22	BS20A-F22	Universal Joint	L25A4-03	2
23	TC16726	Oil Seal	TC16.7.26	1
24	TS-0207012	Socket Head Cap Screw	1/4"x3/8"L	2
25	BS20A-F25	C Ring	S-16	1
26	TS-1503041	Socket Head Cap Screw	M6x16	3
27	BS20A-F27	Hydraulic Motor		1
28	BS20A-F28	Conveyer Screw	L25A2-53-A	1
29-1	BS20A-F29-1	Socket Head Flat Screw	M8x60L	1
31	BS20A-F31	Large Chain Wheel Shaft	L25A2-63B	1
32	TC16726	Oil Seal	TC16.7.26	1
33	BS20A-F18	O Ring	P-32	1
34	BS20A-F34	Shaft Bush	L25A2-63-C	1
35	TS-0207012	Socket Head Cap Screw	1/4"x3/8"L	2



Index No	Part No	Description	Size	Qty.
36	BS20A-F15	Oilless Bush	1625	1
37	BS20A-F37	Big Chain Wheel	L25A2-61	1
50	BS20A-F50	Limited Set	S138F2-27	1
51	TS-0211061	Socket Head Cap Screw	1/2"x1-1/4"L	2
52	TS-0561051	Nut	1/2"	1
53	TS-0050081	Hex Cap Screw	1/2"x1-3/4"L	1
54	TS-1522011	Socket Set Screw	M5x5L	2
55	TS-1522011	Socket Set Screw	M5x5L	2



SECTION G PARTS DIAGRAM





Section G Parts List

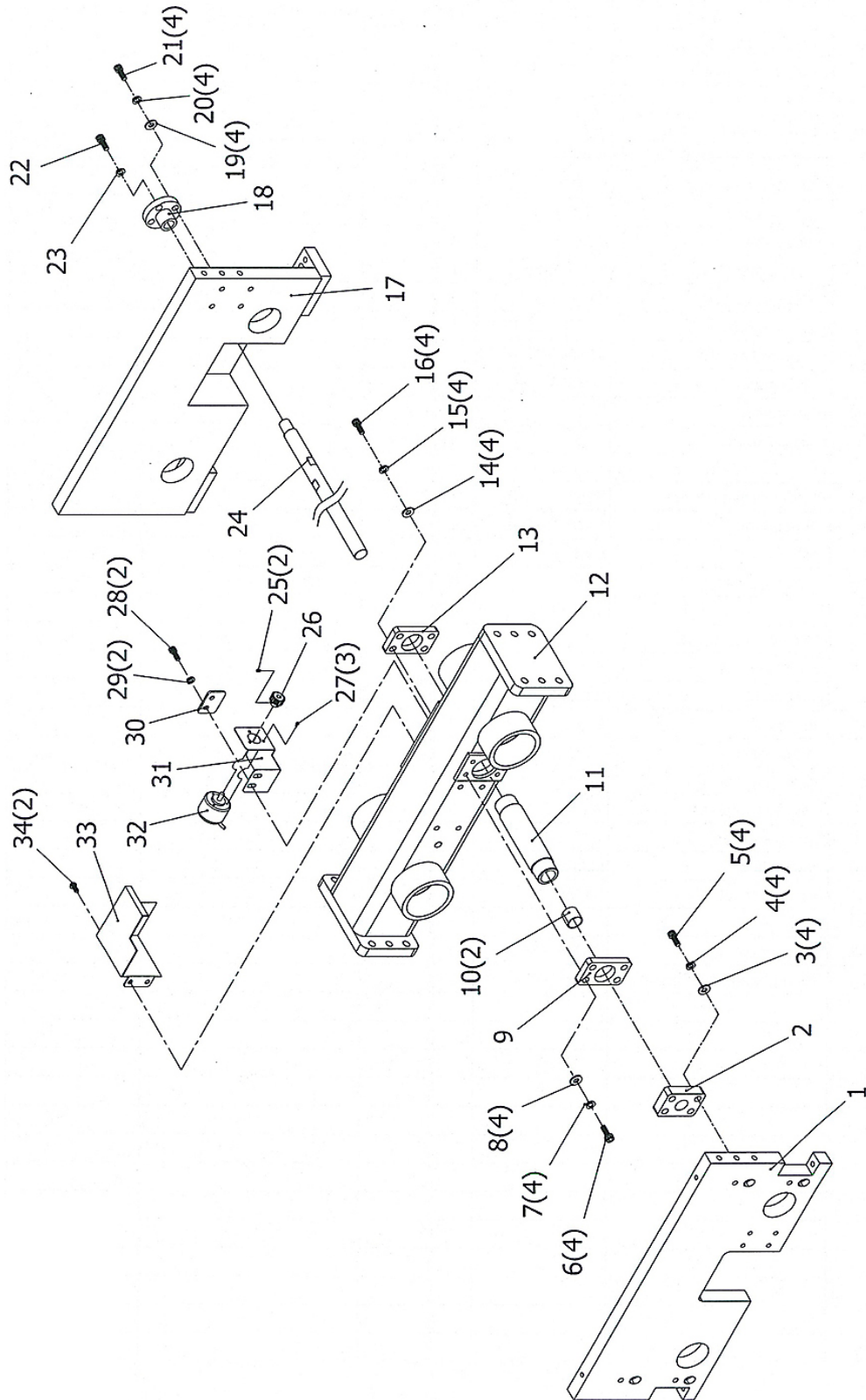
Index No	Part No	Description	Size	Qty.
1	BS20A-G1	Emergency Stop Button	SB1	1
2	BS20A-G2	Power Indicator Light	HL1	1
3	BS20A-G3	Hydraulic Start Button	SB2/HL3	1
4	BS20A-G4	Operation Start Button	SB3/HL2	1
5	BS20A-G5	Bow Up Button	SB5	1
6	BS20A-G6	Bow Down Button	SB6	1
7	BS20A-G7	LED Light	HL7	1
8	BS20A-G8	LED Light	HL8	1
9	BS20A-G9	Bench Vise Open Button	SB8	1
10	BS20A-G10	Shuttle Vise Open Button	SB10	1
11	BS20A-G11	LED Light	HL10	1
12	BS20A-G12	LED Light	HL11	1
13	BS20A-G13	Bench Vise Close Button	SB7	1
14	BS20A-G14	Shuttle Vise Close Button	SB9	1
15	BS20A-G15	Select Switch	SA2	1
16	BS20A-G16	Shuttle Vise Forward Button	SB11	1
17	BS20A-G17	Led Light	HL12	1
18	BS20A-G18	Cover		1
19	BS20A-G19	Shuttle Vise Backward Button	SB12	1
20	BS20A-G20	Coolant Pump Button	SB4/HL4	1
21	BS20A-G21	Light Button	SB14/HL14	1
22	BS20A-G22	Touch Screen	HMI (5.7")	1
23	BS20A-G23	Transformer	T1	1
24	BS20A-G24	Power in Connecting Board	X9	1
26	BS20A-G26	Terminal Board	X3	1
27	BS20A-G27	Coolant Motor Overload Relay	FS3	1
28	BS20A-G28	Hydraulic Motor Overload Relay	FS2	1
29	BS20A-G29	Motor Circular Protector	QM2	1
30	BS20A-G30	Power in Fuse	FU4 (12A:230V)	1
31	BS20A-G31	Power in Fuse	FU5 (12A:230V)	1
32	BS20A-G32	Power in Fuse	FU6 (12A:230V)	1
33	BS20A-G33	Transformer Power in Fuse	FU7 (4A:230V)	1
34	BS20A-G34	Transformer Power in Fuse	FU8 (4A:230V)	1



Index No	Part No	Description	Size	Qty.
35	BS20A-G35	Inverter Fan Output Fuse	FU9 ,1A	1
36	BS20A-G36	Transformer Output Fuse	FU10 ,4A	1
37	BS20A-G37	Transformer Output Fuse	FU11, 1A	1
38	BS20A-G38	Transformer Output Fuse	FU12 ,4A	1
39	BS20A-G39	Blade Motor Contactor	KM1	1
40	BS20A-G40	Hydraulic Motor Contactor	KM2	1
41	BS20A-G41	Coolant Motor Contactor	KM3	1
42	BS20A-G42	Relay	K1	1
43	BS20A-G43	Relay	K7	1
44	BS20A-G44	Relay	K17	1
45	BS20A-G45	Power Supply Fuse (DC24V)	FU13	1
46	BS20A-G46	PLC	U1	1
48	BS20A-G48	Terminal Blocker (Earth Wire)		1
49-1	BS20A-G49-1	Inverter	L33N4-04	1
50	BS20A-G50	Power Supplier	U5	1
51	BS20A-G51	Power Supplier Input Fuse	FU14, 1.6A	1
52	BS20A-G52	Power Supplier Output Fuse	FU16,1A	1
53	BS20A-G53	Time Meter	KT1	1
54	BS20A-G54	Connector	X6	1
55	BS20A-G55	Connector	X5	1
56	BS20A-G56	Connector	X7	1



SECTION H PARTS DIAGRAM





Section H Parts List

Index No	Part No	Description	Size	Qty.
1	BS20A-H1	Roller Bracket (Front)	S138F2-04-E	1
2	BS20A-H2	S Aft Fixing Plate	S138F2-29-D	1
3	TS-0680031	Flat Washer	5/16"	4
4	TS-0720081	Lock Washer	5/16"	4
5	TS-0208062	Socket Head Cap Screw	5/16"x1"L	4
6	TS-0208062	Socket Head Cap Screw	5/16"x1"L	4
7	TS-0720081	Lock Washer	5/16"	4
8	TS-0680031	Flat Washer	5/16"	4
10	BS20A-H10	Oilless Bushing	BB2103 2020	2
10-1	BS20A-H10-1	Support Block	S138F2-29-E	1
12	BS20A-H12	Guide Rod Bracket	S138F3-12-A	1
13-1	BS20A-H13-1	Support Block	S138F2-29-E	1
14	TS-0680031	Flat Washer	5/16"	4
15	TS-0720081	Lock Washer	5/16"	4
16	TS-0208062	Socket Head Cap Screw	5/16"x1"L	4
17	BS20A-H17	Roller Bracket (Rear)	S138F2-04-F	1
18	BS20A-H18	Shaft Bracket	S138F2-29-A	1
19	TS-0680031	Flat Washer	5/16"	4
20	TS-0720081	Lock Washer	5/16"	4
21	TS-0208062	Socket Head Cap Screw	5/16"x1"L	4
22	TS-0208062	Socket Head Cap Screw	5/16"x1"L	1
23	TS-0720081	Lock Washer	5/16"	1
24	BS20A-H24	Gear Shaft	S138F2-29	1
25	TS-1521011	Set Screw	M4x4L	2
26	BS20A-H26	Length Gear	S138F2-11	1
27	BS20A-H27	Socket Head Button Screw	M4x6L	3
28	TS-0207021	Socket Head Cap Screw	1/4"x1/2"L	2
29	TS-0720071	Lock Washer	1/4"	2
30	BS20A-H30	Press Plate	L25A3-90	1
31	BS20A-H31	Fixing Bracket	S138F3-38	1
32	BS20A-H32	Encoder		1
33	BS20A-H33	Encoder Cover	S138F3-38-A	1
34	TS-0254041	Socket Head Button Screw	1/4"x3/4"L	2