



Sub-Assembly Bill of Material

Name: ME B.O.M
Rack #: ME B.O.M
Cell #: ME B.O.M
Date: 05-02-22
Created by: Lance Deemter
Design Review
Reviewer: 0

Sub-Asm Status, Incl. Reviews:

Date: 04/26/22 PASS/FAIL 0

In Stock Complete
Order In-Process
On Order
Received

TOTAL/EXT \$2,962.52

Assembly Qty:		1	1									
#	PART NAME	Description	VENDOR PART #	VENDOR	MANUF.	QTY	QTY SPARE	TOTAL QTY	COST	EXT COST	ORDER STATUS	COMMENTS
1	45x90x2100	-	-	-	-	2	2	2	\$0.00	\$0.00	In Stock	
2	90x90x810	-	-	-	-	6	6	6	\$0.00	\$0.00	In Stock	
3	45x90x820	-	-	-	-	4	4	4	\$0.00	\$0.00	In Stock	
4	45x90x1300	-	-	-	-	2	2	2	\$0.00	\$0.00	In Stock	
5	45x90x720	-	-	-	-	3	3	3	\$0.00	\$0.00	In Stock	
6	45x45x810	-	-	-	-	4	4	4	\$0.00	\$0.00	In Stock	
7	45x45x1150 Blank	-	-	-	-	2	2	2	\$0.00	\$0.00	In Stock	
8	45x45x360	-	-	-	-	2	2	2	\$0.00	\$0.00	In Stock	
9	45x45x415	-	-	-	-	2	2	2	\$0.00	\$0.00	In Stock	
10	45x45x770	-	-	-	-	2	2	2	\$0.00	\$0.00	In Stock	
11	45x90x315	-	-	-	-	2	2	2	\$0.00	\$0.00	In Stock	
12	45x45x915	-	-	-	-	2	2	2	\$0.00	\$0.00	In Stock	
13	45x45x715	-	-	-	-	2	2	2	\$0.00	\$0.00	In Stock	
14	Hinge Plate.STEP	x	x	x	x	8	8	8	\$0.00	\$0.00	In Stock	
15	M6x20 Countersunk Screw 45 series.STEP	x	x	x	x	8	8	8	\$0.00	\$0.00	In Stock	
16	10mm T Nut.STEP	x	x	x	x	8	8	8	\$0.00	\$0.00	In Stock	
17	Hinge Pin.STEP	x	x	x	x	4	4	4	\$0.00	\$0.00	In Stock	
18	Handle 160 mm	-	-	-	-	2	2	2	\$0.00	\$0.00	In Stock	
19	45x45x1100	-	-	-	-	2	2	2	\$0.00	\$0.00	In Stock	
20	45x45x245	-	-	-	-	2	2	2	\$0.00	\$0.00	In Stock	
21	Top Plastic Plate	-	-	-	-	1	1	1	\$0.00	\$0.00	In Stock	
22	Bottom Plastic Plate	-	-	-	-	1	1	1	\$0.00	\$0.00	In Stock	
23	2407T73	Cart-Smart Caster	2407T73	McMaster-Carr	McMaster-Carr	4	4	4	\$0.00	\$0.00	In Stock	
24	46991.stp	NOT SPECIFIED	x	x	x	2	2	2	\$0.00	\$0.00	In Stock	
25	46992.stp	NOT SPECIFIED	x	x	x	2	2	2	\$0.00	\$0.00	In Stock	
26	HMI Enclosure.stp	x	x	x	x	1	1	1	\$0.00	\$0.00	In Stock	
27	6785K21 Emergency Stop Enclosed Push-Button Switch	Emergency Stop Enclosed	6785K21	McMaster-Carr	McMaster-Carr	1	1	1	\$0.00	\$0.00	In Stock	
28	Electrical Cabinet/ Enclosure	Stainless Steel Corrosion-aluminum profile	6942K26	McMaster-Carr	McMaster-Carr	1	1	1	\$0.00	\$0.00	In Stock	
29	45x45x508	-	-	-	-	2	2	2	\$0.00	\$0.00	In Stock	
30	123866 CPV10-GE-F8-8---(E 8).stp	Valve Bank Face	x	x	x	2	2	2	\$0.00	\$0.00	In Stock	
31	161415 CPV-10-M1H-5JS-M7---(0.3_M1H).stp	Air Valve	x	x	x	16	16	16	\$0.00	\$0.00	In Stock	
32	161377 CPV10-EPR-G---(0 0_Y.stp	Valve Bank Ends	x	x	x	4	4	4	\$0.00	\$0.00	In Stock	
33	Rack Bin Large	18x11x10 Plastic Bin	-	-	-	1	1	1	\$0.00	\$0.00	In Stock	
34	bin	x	x	x	x	1	1	1	\$0.00	\$0.00	In Stock	
35	Rexroth-3842524986-DEFAULT BALL DETENT LATCH_OO4.stp	x	x	x	x	2	2	2	\$0.00	\$0.00	In Stock	
36	Rexroth-3842524986-DEFAULT BALL DETENT LATCH-FIX4.stp	x	x	x	x	2	2	2	\$0.00	\$0.00	In Stock	
37	A40-1400-11-011-001 Upper Shear Arm Base	Upper Shear Arm Base	-	-	Swoboda	1	1	1	\$0.00	\$0.00	Complete	
38	1161N86 Double X-Profile O-RingProfile Oil-Resistant Buna-N O-Ring	1161N86	1161N86	McMaster-Carr	McMaster-Carr	3	3	6	\$5.69	\$34.14	Complete	
39	NSFRBE-D48 L31 5 M12 T68 Q40 N12(misumi) Shear Shaft	Shear Shaft	NSFRBE-D48-L31-M12	MISUMI	MISUMI	1	1	1	TBD	TBD	Complete	
40	NSK 22208EAE4C3	ID:40 OD:80 Spherical	NSK 22208 EAE4 C3	MISUMI	NSK	2	2	2	\$154.18	\$308.36	Complete	
41	A40-1400-11-011-005 Lower Shear Arm Base	-	-	-	Swoboda	1	1	1	\$0.00	\$0.00	Complete	
42	MXQ16 100 0 0 3	part trasfer cyl	MXQ16 100	MISUMI	SMC Corporation	1	1	1	\$0.00	\$0.00	In Stock	
43	A40-1400-11-011-006 Grpper Cyl Base	config 4	-	-	Swoboda	1	1	1	\$0.00	\$0.00	Complete	
44	MHZ2 25D 33 3 0 6	clamp cyl	-	-	Swoboda	1	1	1	\$0.00	\$0.00	In Stock	
45	MHZ2 25D 33 3 0 3	clamp cyl	MHZ2-25D	MISUMI	SMC Corporation	2	2	2	\$0.00	\$0.00	In Stock	
46	A40-1400-11-011-008 Gripper Right	-	-	-	Swoboda	1	1	1	\$0.00	\$0.00	Complete	
47	A40-1400-11-011-007 Gripper Left	-	-	-	Swoboda	1	1	1	\$0.00	\$0.00	Complete	
48	BUTT HD HEX SCR M5 X 45	91239A244	91239A244	McMaster-Carr	-	2	2	2	\$6.43	\$6.43	Complete	
49	HEX SOC CAP SCR M5 X 14	91290A230	91290A230	McMaster-Carr	-	2	2	2	\$16.38	\$16.38	Complete	
50	HEX SOC CAP SCR M5 X 25	91290A252	91290A252	McMaster-Carr	-	4	4	4	\$10.30	\$10.30	Complete	
51	LOW_PROF_HEX_SOC_CAP_SCR_M4_X_18	90358A129	90358A129	McMaster-Carr	-	4	4	4	\$4.70	\$4.70	Complete	
52	DOWEL M5 X 14	91595A348	91595A348	McMaster-Carr	-	2	2	2	\$16.42	\$2.00	Complete	
53	CLBPB40 49 10(misumi)	ID:40 OD:49 L:10 Shear Shaft	CLBPB40-49-10	MISUMI	MISUMI	1	1	1	\$29.60	\$29.60	Complete	
54	CLBPB40 49 12(misumi)	ID:40 OD:49 L:12 Shear Shaft	CLBPB40-49-12	MISUMI	MISUMI	1	1	1	\$29.60	\$29.60	Complete	
55	A40-1400-11-011-009 Clamp Base Right	-	-	-	Swoboda	1	1	1	\$0.00	\$0.00	Complete	
56	A40-1400-11-011-010 Clamp Base Left	-	-	-	Swoboda	1	1	1	\$0.00	\$0.00	Complete	

57	MGPL32_25Z_body					2		2	\$0.00	\$0.00	In Stock	
58	A40-1400-11-011-011 Shear Base Upright		-	-	Swoboda	1		1	\$0.00	\$0.00	Complete	
59	A40-1400-11-011-012 Base Plate		-	-	Swoboda	1		1	\$0.00	\$0.00	Complete	
60	NSFRBE-D30-L31.5-M12-T68-Q25-N12	Tert. Shaft	NSFRBE-D30-L31.5-M12	Misumi	Misumi	2		2	\$29.45	\$58.90	Complete	
61	NSK 22205CE4S11	ID:25 OD:52 Spherical	NSK 22205CE4S11	MISUMI	NSK	4		4	\$110.48	\$441.92	Complete	
62	A40-1400-11-012-004 Tert Upper Support		-	-	Swoboda	2		2	\$0.00	\$0.00	Complete	
63	A40-1400-11-012-005 Tert Lower Support		-	-	Swoboda	2		2	\$0.00	\$0.00	Complete	
64	1161N74 Double X-Profile Oil-Resistant Buna-N O-Ring	1161N74	1161N74	McMaster-Carr		4	4	8	\$3.42	\$27.36	Complete	
65	CLBP825_31_12(misumi)	ID:25 OD:31 L:12 Tert Shaft	CLBP825-31-12	MISUMI	MISUMI	2		2	\$24.28	\$48.56	Complete	
66	CLBUB25_31_20(misumi)	ID:25 OD:31 L:20 Tert Shaft	CLBP825-31-20	MISUMI	MISUMI	2		2	\$24.28	\$48.56	Complete	
67	A40-1400-11-011-013 Tertiary Link Upright		-	-	Swoboda	2		2	\$0.00	\$0.00	Complete	
68	MXQ16_100_0_0_5	part trasfer cyl	MXQ16-100	MISUMI	SMC Corporation	1		1	\$0.00	\$0.00	In Stock	
69	A40-1400-11-015-001 Clamp Insert Left		-	-	Swoboda	1		1	\$0.00	\$0.00	Complete	
70	MGPL32_25Z_0_0_0_6		MGPM32-25Z	MISUMI	MISUMI	2		2	\$0.00	\$0.00	In Stock	
71	A40-1400-11-015-002 Ejector Pin	90224A138 M2 Tool Steel	90224A138 M2 Tool	McMaster-Carr	Swoboda	4	4	8	\$9.58	\$76.64	Complete	
72	9657K623 Compression Spring	9657K623	9657K623	McMaster-Carr	McMaster-Carr	4		4	\$12.84	\$12.84	Complete	
73	SET_SCR_M10_X_8	91390A555	91390A555	McMaster-Carr	McMaster-Carr	4		4	\$8.70	\$8.70	Complete	
74	DW-AD-S01-04.step	Inductive Proximity Sensor	*	*	*	2		2	\$0.00	\$0.00	In Stock	
75	SET_SCR_M4_X_10	91390A114	91390A114	McMaster-Carr	McMaster-Carr	2		2	\$6.67	\$6.67	Complete	
76	A40-1400-11-015-003 Clamp Hard Stop		-	-	Swoboda	2		2	\$0.00	\$0.00	Complete	
77	BUTT_HD_HEX_SCR_M6_X_20	91239A326	91239A326	McMaster-Carr	McMaster-Carr	4		4	\$16.82	\$16.82	Complete	
78	BUTT_HD_HEX_SCR_M6_X_30	91239A328	91239A328	McMaster-Carr	McMaster-Carr	4		4	\$12.82	\$12.82	Complete	
79	RB1412_Rb-Body	shock Absorber	RB1412	SMC	SMC Corporation	2		2	\$44.84	\$89.68	Complete	
80	H412	*	*	*	*	2		2	\$0.00	\$0.00	Complete	
81	H4	*	*	*	*	4		4	\$0.00	\$0.00	Complete	
82	A40-1400-11-016-001 Clamp Insert Right		-	-	Swoboda	1		1	\$0.00	\$0.00	Complete	
83	A40-1400-11-018-001 Washer Removal Base		-	-	Swoboda	1		1	\$0.00	\$0.00	Complete	
84	CDQ2B32_50DZ_0_1_0_5	Washer Removal cyl(Body)	CDQ2B32-50DZ	Misumi	SMC Corporation	1		1	\$0.00	\$0.00	In Stock	
85	A40-1400-11-018-002 L support		-	-	Swoboda	2		2	\$0.00	\$0.00	Complete	
86	A40-1400-11-018-003 Straight Support		-	-	Swoboda	2		2	\$0.00	\$0.00	Complete	
87	A40-1400-11-018-004 Blast Gate Cyl Support		-	-	Swoboda	1		1	\$0.00	\$0.00	Complete	
88	MXS8_50B_0_0_20	End Stop cyl	MXS8-50B	MISUMI	SMC Corporation	1		1	\$0.00	\$0.00	In Stock	
89	MXS8_50B_0_0_18					1		1	\$0.00	\$0.00	In Stock	
90	A40-1400-11-018-005 End Stop Cyl Attachment		-	-	Swoboda	1		1	\$0.00	\$0.00	Complete	
91	A40-1400-11-018-006 Pre Stop Lower Adjustment		-	-	Swoboda	1		1	\$0.00	\$0.00	Complete	
92	A40-1400-11-018-007 Pre Stop Upper Adjustment		-	-	Swoboda	1		1	\$0.00	\$0.00	Complete	
93	A40-1400-11-018-008 End Stop Adjustment Block		-	-	Swoboda	1		1	\$0.00	\$0.00	Complete	
94	A40-1400-11-018-009 End Stop Steel Plate		-	-	Swoboda	1		1	\$0.00	\$0.00	Complete	
95	CDQ2B32_50DZ_0_1_0_3	Washer Removal cyl(internal)	CDQ2B32-50DZ	MISUMI	SMC Corporation	1		1	\$0.00	\$0.00	In Stock	
96	THRD_ROD_M8_x_25	93675A250	93675A250	McMaster-Carr	McMaster-Carr	1		1	\$3.44	\$3.44	Complete	
97	MXS_BT8_X12	Shock Absorber				1		1	\$0.00	\$0.00	In Stock	
98	MXS_BT8	Extension End				1		1	\$0.00	\$0.00	In Stock	
99	MXS_8	Table Mount				1		1	\$0.00	\$0.00	In Stock	
100	MXS_8_2	Table Mount				1		1	\$0.00	\$0.00	In Stock	
101	MXS_B8_NUT	Nut				2		2	\$0.00	\$0.00	In Stock	
102	MXS_B8_X12	Shock Absorber				1		1	\$0.00	\$0.00	In Stock	
103	MXS_BT8	Retraction End				1		1	\$0.00	\$0.00	In Stock	
104	HEX_SOC_CAP_SCR_M4_X_12	91290A148	91290A148	McMaster-Carr	McMaster-Carr	26		26	\$11.54	\$11.54	Complete	
105	DOWEL_M3_X_8	91595A104	91595A104	McMaster-Carr	McMaster-Carr	2		2	\$17.18	\$17.18	Complete	
106	HEX_SOC_CAP_SCR_M5_X_85	91290A105	91290A105	McMaster-Carr	McMaster-Carr	4		4	\$14.15	\$14.15	Complete	
107	DOWEL_M4_X_20	91595A167	91595A167	McMaster-Carr	McMaster-Carr	18		18	\$15.10	\$15.10	Complete	
108	HEX_SOC_CAP_SCR_M5_X_20	91290A242	91290A242	McMaster-Carr	McMaster-Carr	4		4	\$16.44	\$16.44	Complete	
109	HEX_SOC_CAP_SCR_M5_X_50	91290A262	91290A262	McMaster-Carr	McMaster-Carr	2		2	\$17.65	\$17.65	Complete	
110	HEX_SOC_CAP_SCR_M4_X_35	91290A182	91290A182	McMaster-Carr	McMaster-Carr	3		3	\$11.43	\$11.43	Complete	
111	FLAT_WASH_M4	98269A430	98269A430	McMaster-Carr	McMaster-Carr	5		5	\$3.13	\$3.13	Complete	
112	HEX_SOC_CAP_SCR_M4_X_15	91290A306	91290A306	McMaster-Carr	McMaster-Carr	2		2	\$11.62	\$11.62	Complete	
113	HEX_SOC_CAP_SCR_M4_X_18	91290A164	91290A164	McMaster-Carr	McMaster-Carr	2		2	\$15.38	\$15.38	Complete	
114	BUTT_HD_SCR_M3_X_15	91239A811	91239A811	McMaster-Carr	McMaster-Carr	2		2	\$6.40	\$6.40	Complete	
115	DOWEL_M3_X_14	91595A114	91595A114	McMaster-Carr	McMaster-Carr	2		2	\$15.56	\$15.56	Complete	
116	CDQ2B12_15DCZ_0_1_0_8	Pre Stop cyl	CDQ2B12-15DCZ	SMC	SMC Corporation	1		1	\$27.35	\$27.35	Complete	
117	HEX_SOC_CAP_SCR_M3_X_45	91290A079	91290A079	McMaster-Carr	McMaster-Carr	2		2	\$4.57	\$4.57	Complete	
118	CDQ2B12_15DCZ_0_1_0_6		CDQ2B12-15DCZ	MISUMI	SMC Corporation	0		0	\$0.00	\$0.00	In Stock	
119	FPSFITB_D12_L20_N3_J5 (Misumi)	12 x 20 Pre Stop Plug	FPSFITB-D12-L20-N3-J5	Misumi	Misumi	1		1	\$40.70	\$40.70	Complete	
120	THRD_ROD_M3_x_12	93805A629	93805A629	McMaster-Carr	McMaster-Carr	1		1	\$9.62	\$9.62	Complete	
121	PSFGZ15_45_M8_N10_SC22(Misumi)	15 x 45 Washer Removal	PSFGZ15-45-M8-N10-S	Misumi	Misumi	1		1	\$27.72	\$27.72	Complete	
122	HEX_SOC_CAP_SCR_M10_X_14	91290A127	91290A127	McMaster-Carr	McMaster-Carr	1		1	\$9.94	\$9.94	Complete	
123	A40-1400-11-013-001 Upper Right Shear Arm					1		1	\$0.00	\$0.00	Complete	
124	A40-1400-11-013-002 Blade					2		2	\$0.00	\$0.00	Complete	
125	BUTT_HD_SCR_M5_X_30	91239A236	91239A236	McMaster-Carr	McMaster-Carr	4		4	\$16.87	\$16.87	Complete	
126	DOWEL_M5_X_20	91595A356	91595A356	McMaster-Carr	McMaster-Carr	4		4	\$9.98	\$9.98	Complete	
127	A40-1400-11-011-014 Shroud Right		-	-	GVSU	1		1	\$0.00	\$0.00	Complete	
128	A40-1400-11-011-015 Shroud Middle		-	-	GVSU	1		1	\$0.00	\$0.00	Complete	
129	A40-1400-11-011-016 Shroud Left		-	-	GVSU	1		1	\$0.00	\$0.00	Complete	
130	A40-1400-11-011-017 Transfer Gaurd		-	-	SWOBODA	1		1	\$0.00	\$0.00	Complete	
131	FLAT_HD_HEX_CAP_M12_X_35	91294A358	91294A358	McMaster-Carr	McMaster-Carr	6		6	\$11.35	\$11.35	Complete	
132	HEX_SOC_CAP_SCR_M8_X_35	91290A438	91290A438	McMaster-Carr	McMaster-Carr	22		22	\$11.03	\$11.03	Complete	

133	DOWEL M8 X 28	91595A566	91595A566	McMaster-Carr	McMaster-Carr	10	10	\$9.55	\$9.55	Complete	
134	HEX SOC CAP SCR M8 X 20	91294A284	91294A284	McMaster-Carr	McMaster-Carr	8	8	\$12.72	\$12.72	Complete	
135	HEX SOC CAP SCR M6 X 18	91290A323	91290A323	McMaster-Carr	McMaster-Carr	4	4	\$18.84	\$18.84	Complete	
136	DOWEL M5 X 16	91595A352	91595A352	McMaster-Carr	McMaster-Carr	2	2	\$17.63	\$17.63	Complete	
137	BUTT HD SCR M4 X 8	91239A140	91239A140	McMaster-Carr	McMaster-Carr	15	15	\$12.91	\$12.91	Complete	
138	214322.stp	NOT SPECIFIED	NOT SPECIFIED			2	2	\$0.00	\$0.00	In Stock	
139	A40-1400-11-014 Lower Left Shear Arm	-	-	Swoboda		1	1	\$0.00	\$0.00	Complete	
140	A40-1400-11-011-018 Tert Link	-	-	Swoboda		2	2	\$0.00	\$0.00	Complete	
141	A40-1400-11-017-001 Turn Buckle	8416N25	8416N25	McMaster-Carr	Swoboda	2	2	\$22.16	\$44.32	Complete	
142	A40-1400-11-017-003 Heim Joint RH	60645K981	60645K981	McMaster-Carr	Swoboda	2	2	\$17.87	\$35.74	Complete	
143	A40-1400-11-017-002 Heim Joint LF	60645K982	60645K982	McMaster-Carr	Swoboda	2	2	\$17.87	\$35.74	Complete	
144	CQ-D080 Clevis32-100	Double Rear Clevis	CQ-D080	SMC	SMC Corporation	2	2	\$18.60	\$37.20	Complete	
145	PHS22 3	Rod End	PHS22	Misumi		2	2	\$40.95	\$81.90	Complete	
146	PHS22-5					2	2	\$0.00	\$0.00	In Stock	
147	CDQ2A80-250DCMZ 0 1 0 3					0	0	\$0.00	\$0.00	In Stock	
148	CDQ2A80 200DCMZ 0 1 0 3	Shear Cyl	CDQ2A80-200DCMZ	SMC	SMC Corporation	2	2	\$160.80	\$321.60	Complete	
149	CDQ2A80-200DCMZ 0 1 0 5					0	0	\$0.00	\$0.00	In Stock	
150	CDQ2A80-200DCMZ 0 1 0 7					0	0	\$0.00	\$0.00	In Stock	
151	HEX SOC CAP SCR M12 X 30	91290A618	91290A618	McMaster-Carr	McMaster-Carr	8	8	\$12.31	\$12.31	Complete	
152	HEX SOC CAP SCR M8 X 18	91290A422	91290A422	McMaster-Carr	McMaster-Carr	4	4	\$5.07	\$5.07	Complete	
153	ULTRA LOW PROF HEX SOC CAP SCR M6 X 12	90358A017	90358A017	McMaster-Carr	McMaster-Carr	3	3	\$4.47	\$13.41	Complete	
154	16B5	Shock Absorber	x	Misumi	SMC Corporation	1	1	\$0.00	\$0.00	In Stock	
155	16	x	x	x	x	1	1	\$0.00	\$0.00	In Stock	
156	16BT	Shock Absorber	x	Misumi	SMC Corporation	1	1	\$0.00	\$0.00	In Stock	
157	16	x	x	x	x	1	1	\$0.00	\$0.00	In Stock	
158	OVERSIZE CLIP WASH M5 x 18	93409A133	93409A133	McMaster-Carr	McMaster-Carr	6	6	\$13.53	\$13.53	Complete	
159	BUTT HD SCR M5 X 10	91239A224	91239A224	McMaster-Carr	McMaster-Carr	6	6	\$10.82	\$10.82	Complete	
160	FPSFBA D14 L60 M5(misumi)	14 x 60 shaft	FPSFBA-D14-L60-M5	Misumi	Misumi	4	4	\$17.30	\$69.20	Complete	
161	SFR22 60(misumi)	22 x 60 Shaft	SFR22-60	Misumi	Misumi	2	2	\$25.01	\$50.02	Complete	
162	DOWEL M4 x 12	Dowel Pin	91595A155	McMaster-Carr		2	2	\$12.38	\$12.38	Complete	
163	A40-1600-04-030-001	Vibe Base Plate	-	-	Swoboda	1	1	\$0.00	\$0.00	Complete	
164	plain washer m10 r	x	x	x	x	3	3	\$0.00	\$0.00	In Stock	
165	hex soc cap scr m10 x 110	-	-	-	-	3	3	\$0.00	\$0.00	In Stock	
166	hex soc cap scr m5 x 25	-	-	-	-	3	3	\$0.00	\$0.00	In Stock	
167	Dowel 5x10	x	x	x	x	2	2	\$0.00	\$0.00	In Stock	
168	Wash 150D-5.3ID-T3					3	3	\$0.00	\$0.00	In Stock	
169	A40-1600-04-030-008	-	-	-	Swoboda	1	1	\$0.00	\$0.00	Complete	
170	A40-1400-11-019-001 Rail Base	-	-	-	Swoboda	1	1	\$0.00	\$0.00	Complete	
171	A40-1400-11-019-004 Bracket	-	-	-	Swoboda	4	4	\$0.00	\$0.00	Complete	
172	A40-1400-11-019-005 Angled Bracket	-	-	-	Swoboda	1	1	\$0.00	\$0.00	Complete	
173	A40-1400-11-019-002 Side Rail	-	-	-	Swoboda	2	2	\$0.00	\$0.00	Complete	
174	A40-1400-11-019-003 Top Rail	-	-	-	Swoboda	1	1	\$0.00	\$0.00	Complete	
175	A40-1400-11-019-006 Side End Rail	-	-	-	Swoboda	2	2	\$0.00	\$0.00	Complete	
176	A40-1400-11-019-007 Top End Rail	-	-	-	Swoboda	1	1	\$0.00	\$0.00	Complete	
177	HEX SOC CAP SCR M4 X 8	91290A140	91290A140	McMaster-Carr	McMaster-Carr	20	20	\$12.43	\$12.43	Complete	
178	A40-1400-11-019-009 Vibe Top Connector.stp	Re-Manuf Existing piece	-	-	Swoboda	1	1	\$0.00	\$0.00	Complete	
179	A40-1400-11-011-021 Shear Cyl Attachment-Plate	-	-	-	Swoboda	4	4	\$0.00	\$0.00	In Stock	
180	A40-1400-11-011-022 Shear Cyl Pivot	-	-	-	Swoboda	4	4	\$0.00	\$0.00	In Stock	
181	HEX SOC CAP SCR M10 X 18	91290A514	91290A514	McMaster-Carr	McMaster-Carr	4	4	\$9.84	\$9.84	Complete	
182	FLAT WASH od20 id10	93475A280	93475A280	McMaster-Carr	McMaster-Carr	4	4	\$7.78	\$7.78	Complete	
183	A40-1400-11-030-001	-	-	-	GVSU	1	1	\$0.00	\$0.00	Complete	
184	A40-1400-11-030-002	-	-	-	GVSU	2	2	\$0.00	\$0.00	Complete	
185	A40-1400-11-030-003	-	-	-	GVSU	1	1	\$0.00	\$0.00	Complete	
186	A40-1400-11-030-005	-	-	-	GVSU	2	2	\$0.00	\$0.00	Complete	
187	A40-1400-11-030-004	-	-	-	GVSU	1	1	\$0.00	\$0.00	Complete	
188	A40-1400-11-030-006	-	-	-	GVSU	2	2	\$0.00	\$0.00	Complete	
189	A40-1400-11-030-007	-	-	-	GVSU	1	1	\$0.00	\$0.00	Complete	
190	HEX SOC CAP SCR M4 x 8		90358A126	McMaster-Carr		31	31	\$12.43	\$12.43	Complete	
191	A40-1400-11-030-008	Trap door cyl. Sheet metal			GVSU	2	2	\$0.00	\$0.00	Complete	
192	A40-1400-11-030-010	Trap Door lever arm			Swoboda	2	2	\$0.00	\$0.00	Complete	
193	CD85N16 125 A 0 1 0 9					2	2	\$0.00	\$0.00	In Stock	
194	CD85N16 125 A 0 1 0 7					2	2	\$0.00	\$0.00	In Stock	
195	FNTS6 1 0 D6 B6 U20	Knuckle Joint	FNTS6-1.0-D6-B6-U20	Misumi		2	2	\$48.24	\$96.48	Complete	
196	A40-1400-11-030-009				GVSU	2	2	\$0.00	\$0.00	Complete	
197	HCLGN6 12 0 3	Shouldered pin	HCLGN6-12	Misumi		2	2	\$20.27	\$40.54	Complete	
198	HCLGN6 12 0 5	Shouldered pin	HCLGN6-12	Misumi		2	2	\$0.00	\$0.00	Complete	
199	HCLGN6 22 0 3	Shouldered pin	HCLGN6-22	Misumi		2	2	\$20.27	\$40.54	Complete	
200	HCLGN6 22 0 5	Shouldered pin	HCLGN6-22	Misumi		2	2	\$0.00	\$0.00	Complete	
201	SFLC626ZZ	ID-6 OD19: Flanged bearing	SFLC626ZZ	MISUMI	MISUMI	2	2	\$13.67	\$27.34	Complete	
202	SFLC698ZZ	ID-8 OD19 Flanged Bearing	SFLC698ZZ	MISUMI	MISUMI	2	2	\$14.04	\$28.08	Complete	
203	A40-1400-11-030-012 Trap Door Shaft	Trap Door Shaft	PSFGG8-135-F6-P6-M3	Misumi	SWOBODA	2	2	\$26.82	\$53.64	Complete	
204	HEX SOC CAP SCR M3 x 10	Black-Oxide Alloy Steel	91290A115	McMaster-Carr		2	2	\$9.54	\$9.54	Complete	
205	OVERSIZE WASHER M3 x 3.2ID 90D	18-8 Stainless Steel	91116A120	McMaster-Carr		2	2	\$4.40	\$4.40	Complete	
206	SHOULDER BOLT M3 x d4 x L8	Alloy Steel Shoulder Screws	92981A142	McMaster-Carr		4	4	\$3.17	\$12.68	Complete	
207	SHOULDER BOLT M3 x d4 x L12	Alloy Steel Shoulder Screws	92981A143	McMaster-Carr		1	1	\$3.20	\$3.20	Complete	
208	SHOULDER BOLT M3 x d4 x L15	Alloy Steel Shoulder Screws	92981A743	McMaster-Carr		1	1	\$3.21	\$3.21	Complete	

209	A40-1400-11-030-011		-	-	Swoboda	4		4	\$0.00	\$0.00	Complete	
210	A40-1400-11-011-023 Inline Ter Stop					4		4	\$0.00	\$0.00	Complete	
211	Rubber Bumper M8 x 40 x 20	Rubber stop	3810N145	McMaster-Carr		4	2	6	\$6.12	\$36.72	Complete	
212	HFRW20 169 2 M8 N8(misumi)	Shear Cyl Shaft	HFRW20 169 2 M8 N	Misumi	misumi	2		2	\$60.12	\$120.24	Complete	
213	HEX SOC CAP SCR M8 x 25		91290A432	McMaster-Carr		36		36	\$9.41	\$9.41	Complete	
214	A40-1400-11-011-021 Shear cyl Plate				Swoboda	4		4	\$0.00	\$0.00	Complete	
215	CLBUB20-25-27	Shear Cyl shaft spacer	CLBUB20-25-27	Misumi	Misumi	2		2	\$23.62	\$47.24	Complete	
216	CLBUB20-25-59.5	Shear Cyl shaft spacer	CLBUB20-25-59.5	Misumi	Misumi	2		2	\$30.27	\$60.54	Complete	