

112 Extreme®

PARTS DIAGRAMS



IMPORTANT FOR FUTURE REFERENCE

Please complete this information and retain this manual for the life of the equipment:

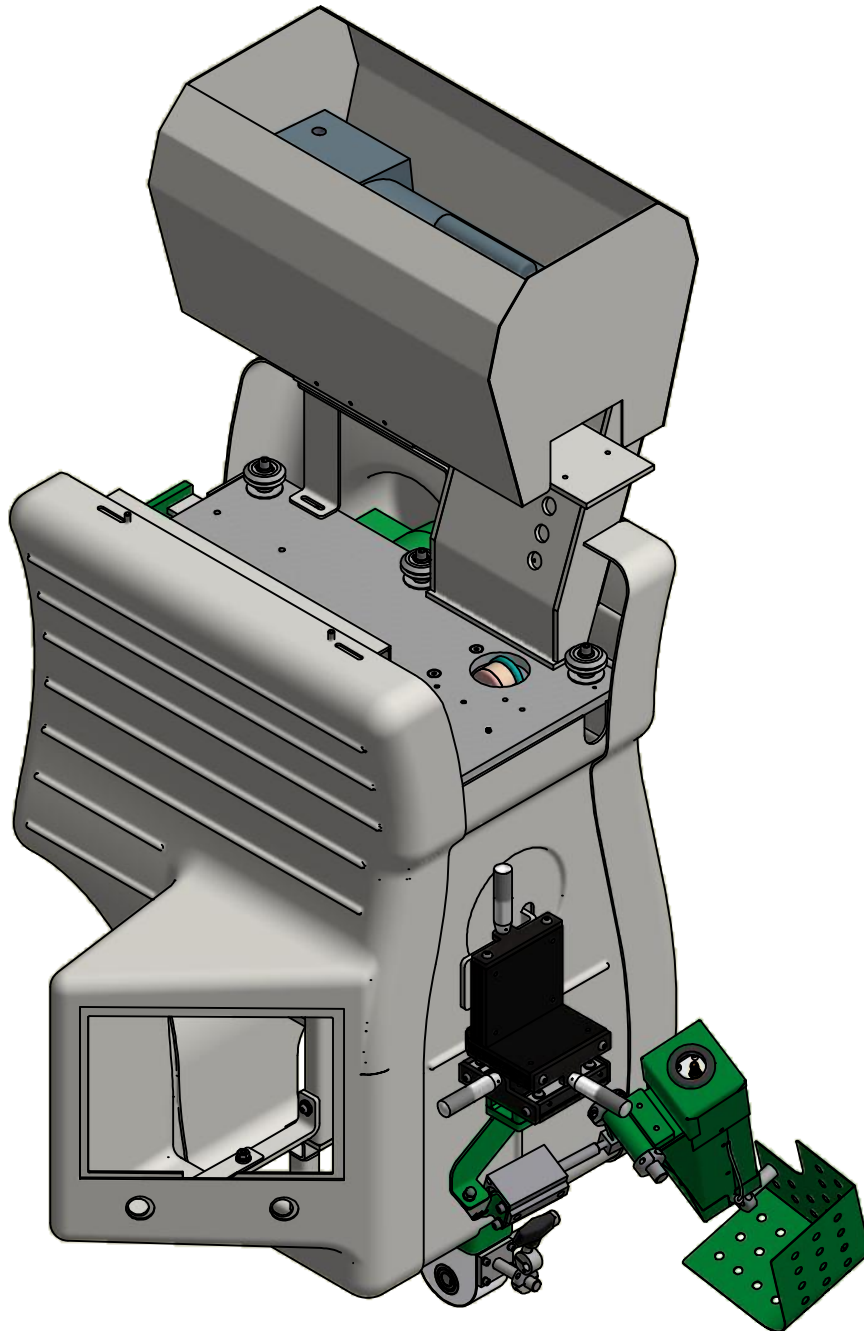
Model #: _____

Serial #: _____

Date Purchased: _____

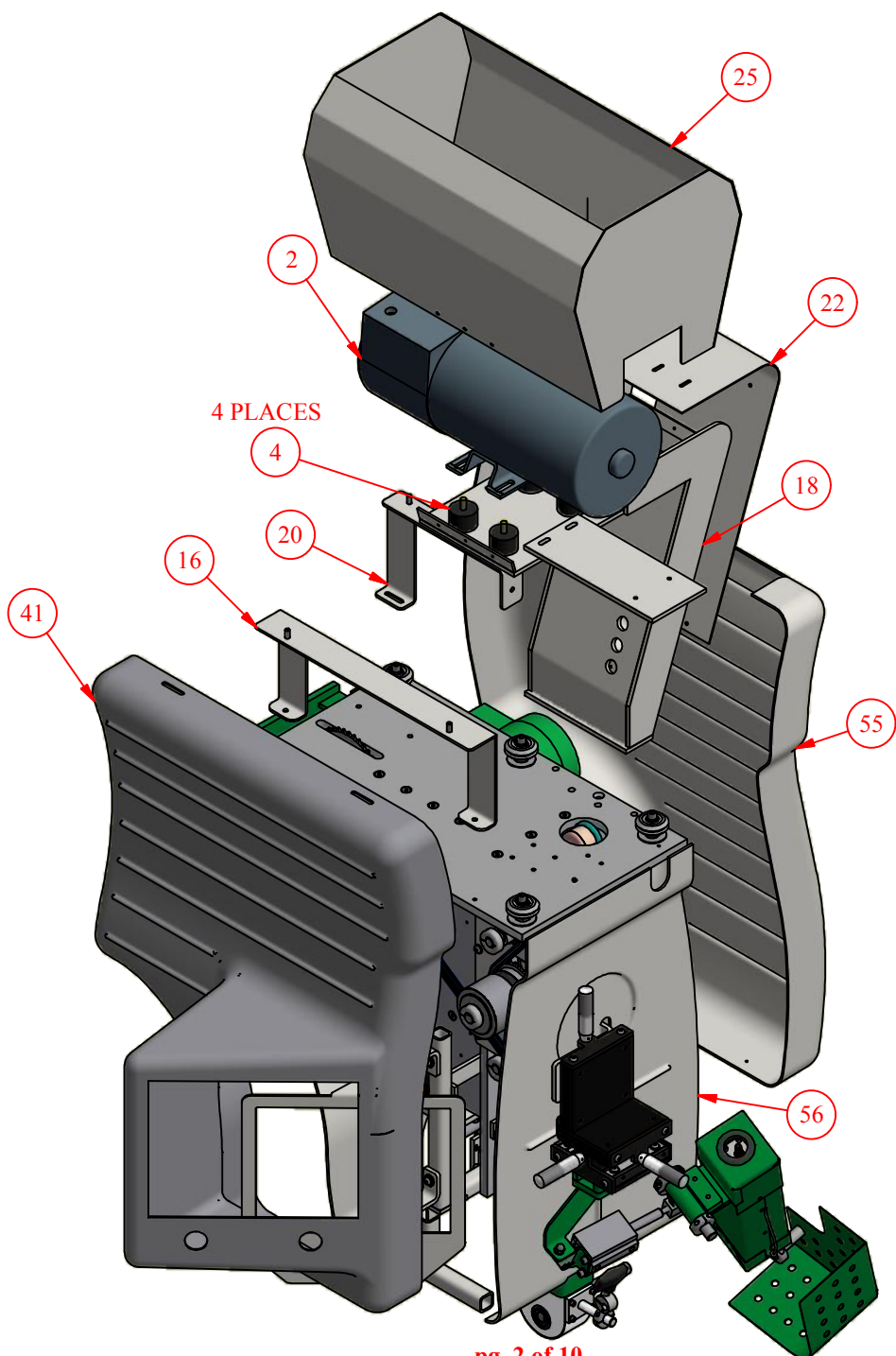
 **MILLER
WELDMASTER®**
The First Choice Globally

MILLER WELDMASTER
112 EXTREME WELDING HEAD

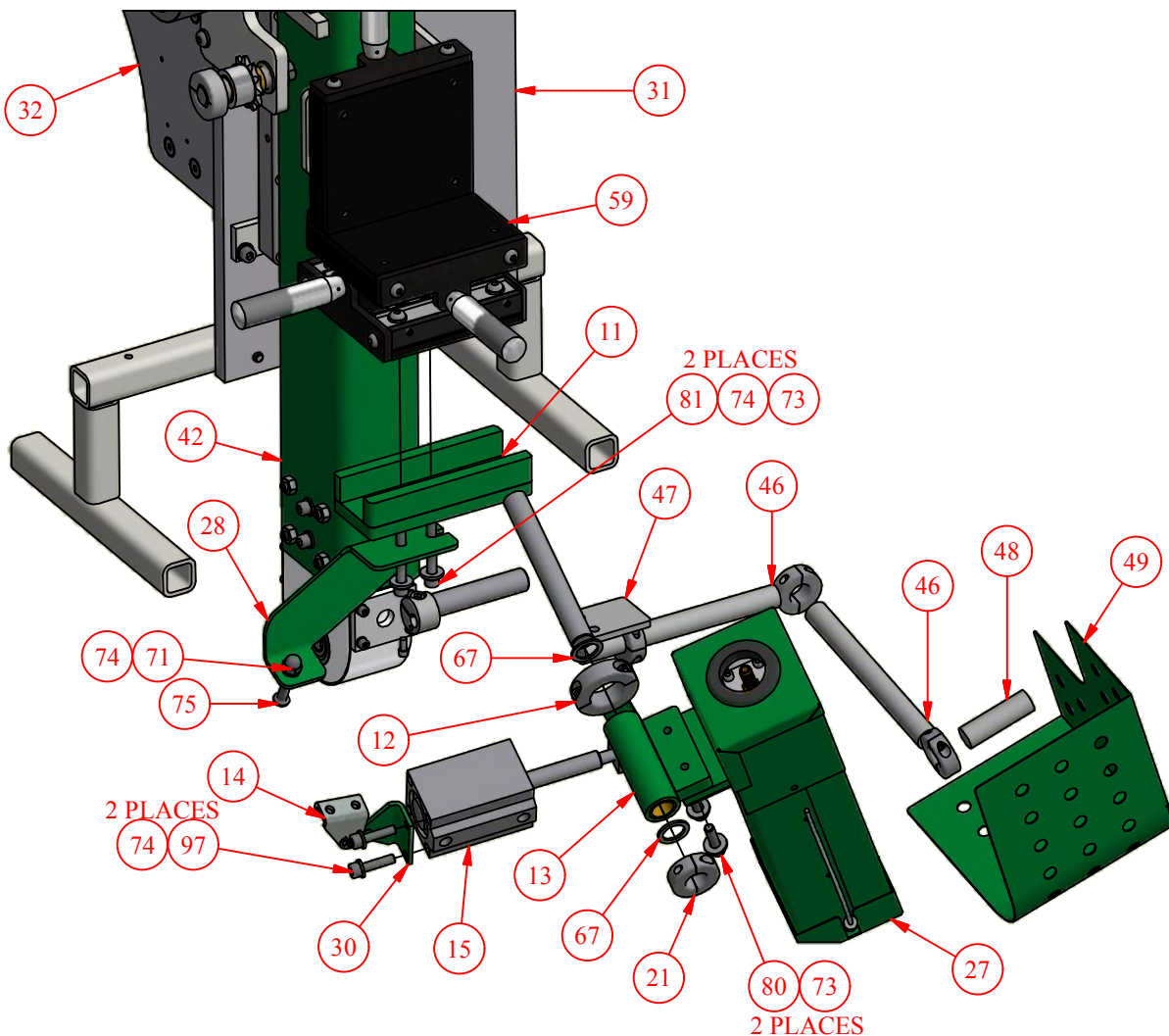


VALID FOR SERIAL NUMBERS;
112EX-XXXX-2004
THRU
112EX-XXXX-4873

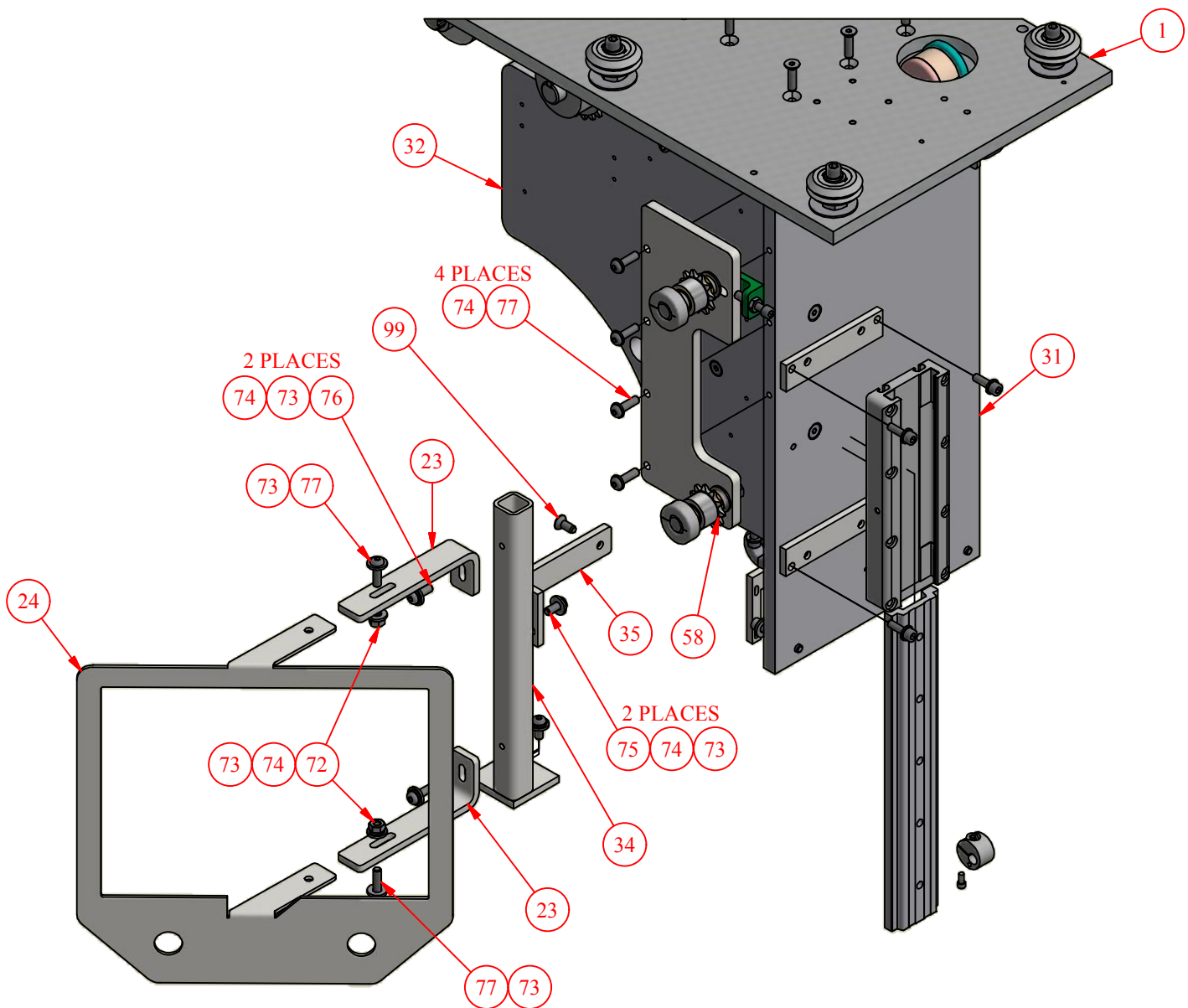
ITEM	ITEM QTY	PART NUMBER	TITLE
2	1	379184	COMPRESSOR
4	4	370261	AIR COMPRESSOR MOUNT
16	1	383930	112 EXTREME SIDE COVER UPPER MOUNTING BRACKET
18	1	383940	112 EXTREME COMPRESSOR MOUNTING BRACKET ASSEMBLY
20	1	383900	112 EXTREME SIDE COVER UPPER MOUNTING BRACKET ASS'Y
22	1	383944	112 EXTREME COMPRESSOR BRACKET WIRE COVER
25	1	383896	112 EXTREME COMPRESSOR COVER
41	1	383360	112 EXTREME HEAD FRONT COVER (HMI)
55	1	383362	112 EXTREME HEAD REAR COVER (MOTOR)
56	1	383364	112 EXTREME HEAD RIGHT SIDE COVER (HEAT SYSTEM)
61	1	388168	RAIL
62	1	388254	CARRIAGE
63	2	383782-2-B	112 EXTREME WELD ROLLER TUBE MOUNTING PLATE
64	1	384232	112 EXTREME CABLE CARRIER MOUNTING PLATE
99	1	FASTENER	CAP SCREW



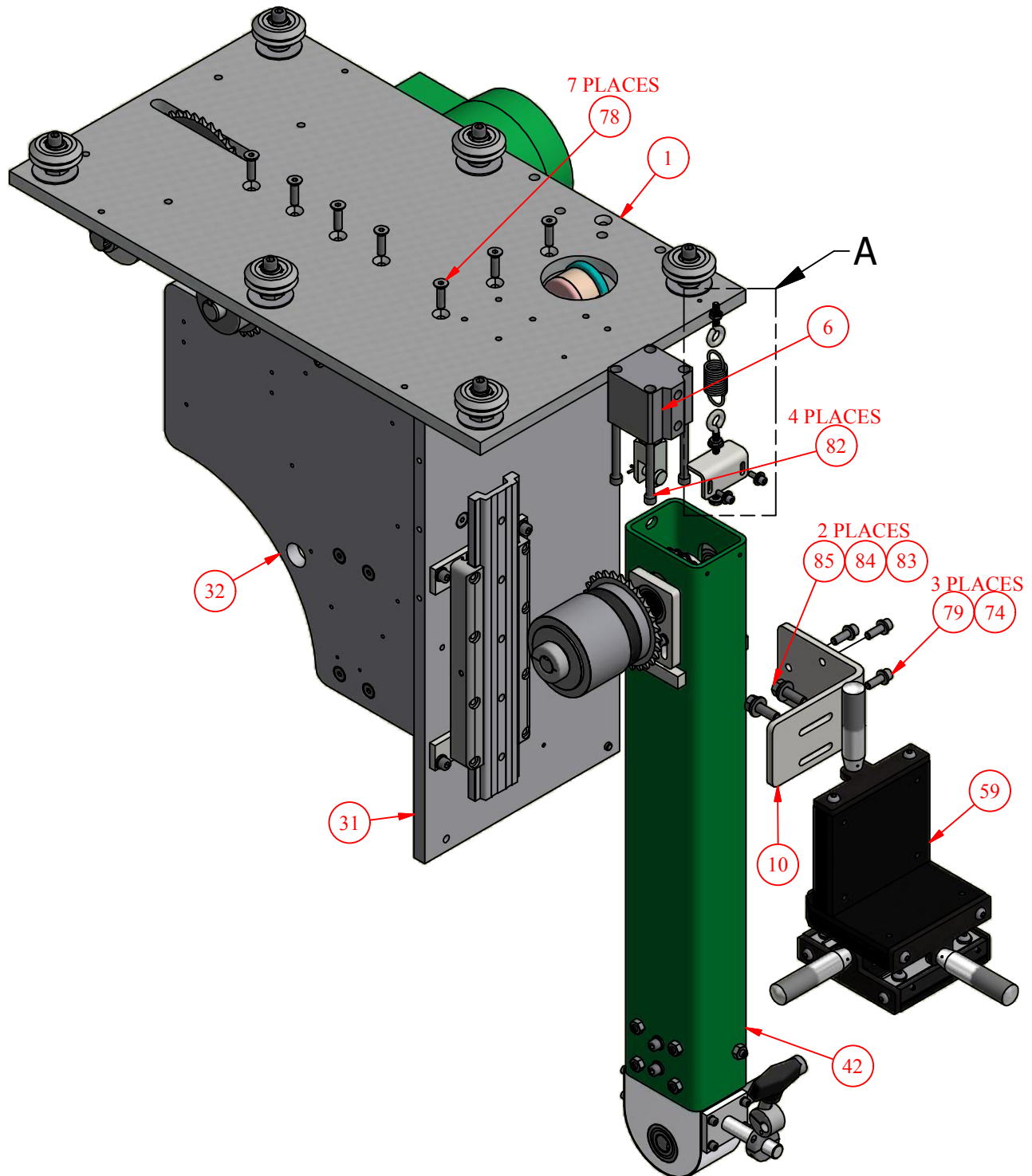
ITEM	QTY	PART NUMBER	TITLE
11	1	383778	HEATING UNIT MOUNTING ROD ASSEMBLY
12	1	383774	112 EXTREME PIVOT ARM ASSEMBLY, UNPAINTED
13	1	383772	HEATING UNIT MOUNTING WELDMENT
14	1	350021	PIVOT BRACKET FOR NOZZLE SWING AIR CYLINDERS
15	1	383798	AIR CYLINDER
21	1	370209	CLAMPING COLLAR
27	1	379976	BALL STYLE DUAL ELEMENT HOUSING ASSY. (W/ WRAPS & THERMOCOUPLE)
28	1	384322	112 EXTREME SWING CYLINDER MOUNTING BRACKET
30	1	383886	112 EXTREME CYLINDER MOUNTING BRACKET
31	1	383914-A	VERTICAL SLIDE MOUNTING PLATE
32	1	383936-A	GUSSET PLATE, 112EX HEAD
42	1	112EXUDA	112EXTREME UPPER DRIVE ASSEMBLY
46	2	384020	112 EXTREME HEAT SWING GUARD MOUNTING SHAFT, 6"
47	1	384016	112 EXTREME HEAT SWING GUARD MOUNTING BRACKET
48	1	384014	112 EXTREME HEAT SWING GUARD MOUNTING SHAFT WITH TAPPED HOLE
49	1	384012-A	HEAT SWING GUARD
59	1	384930	MICROMETER
67	2	FASTENER	FLAT WASHER
61	1	388168	RAIL
62	1	388254	CARRIAGE
63	2	383782-2-B	112 EXTREME WELD ROLLER TUBE MOUNTING PLATE
64	1	384232	112 EXTREME CABLE CARRIER MOUNTING PLATE
99	1	FASTENER	CAP SCREW



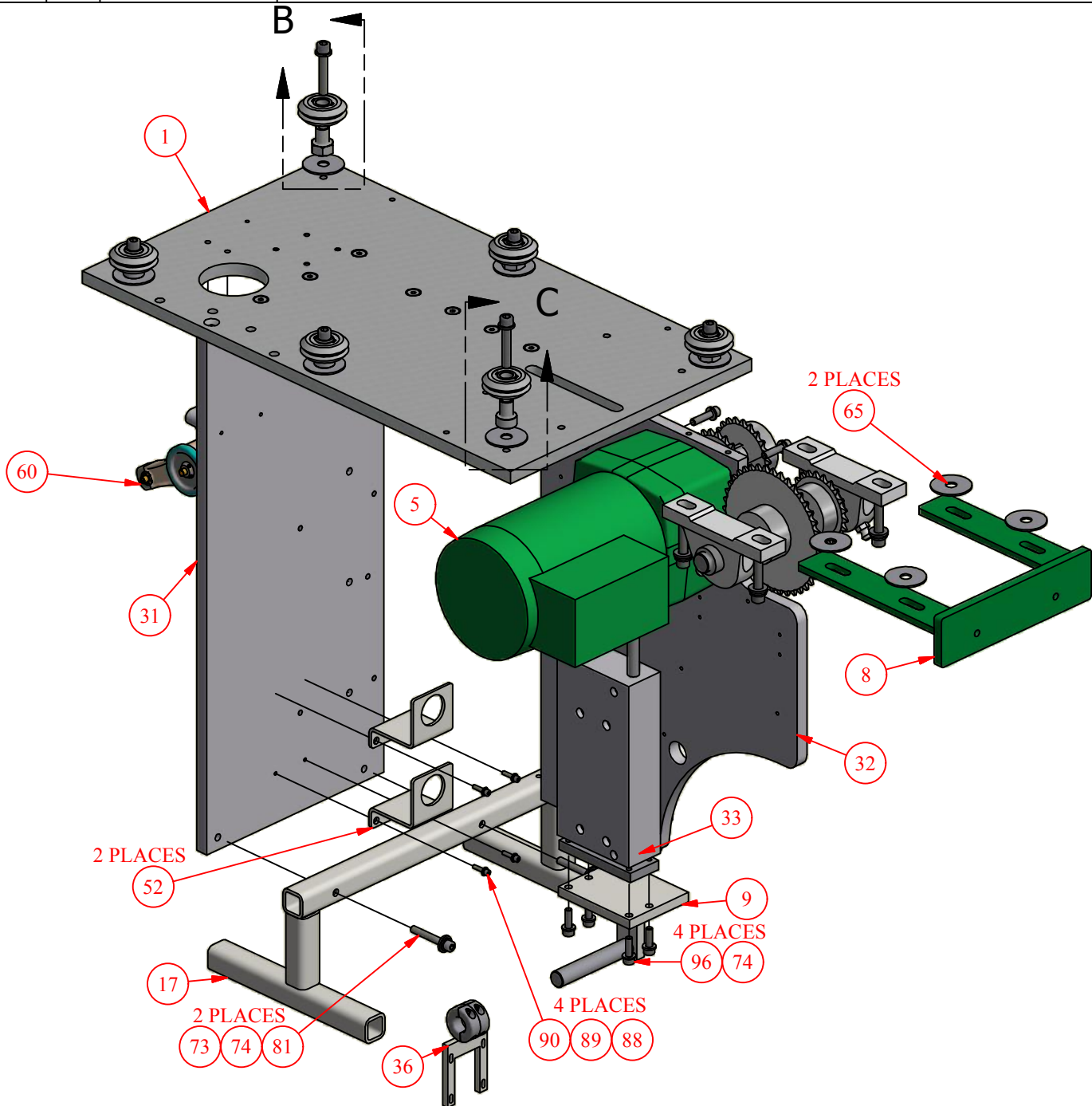
ITEM	ITEM QTY	PART NUMBER	TITLE
1	1	383916-A	V WHEEL MOUNTING PLATE
23	2	383870	112 EXTREME SIDE COVER LOWER MOUNTING BRACKET SUPPORT ARM
24	1	384026	112EX TOUCH SCREEN MOUNT
31	1	383914-A	VERTICAL SLIDE MOUNTING PLATE
32	1	383936-A	GUSSET PLATE, 112EX HEAD
34	1	384781	112EX TOUCH SCREEN MOUNTING BRACKET
35	1	384782	112EX TOUCH SCREEN MOUNTING BRACKET
58	1	112EXIA	112 EXTREME IDLER ASSEMBLY ON WELDING HEAD
61	1	388168	RAIL
62	1	388254	CARRIAGE
63	2	383782-2-B	112 EXTREME WELD ROLLER TUBE MOUNTING PLATE
64	1	384232	112 EXTREME CABLE CARRIER MOUNTING PLATE
99	1	FASTENER	CAP SCREW



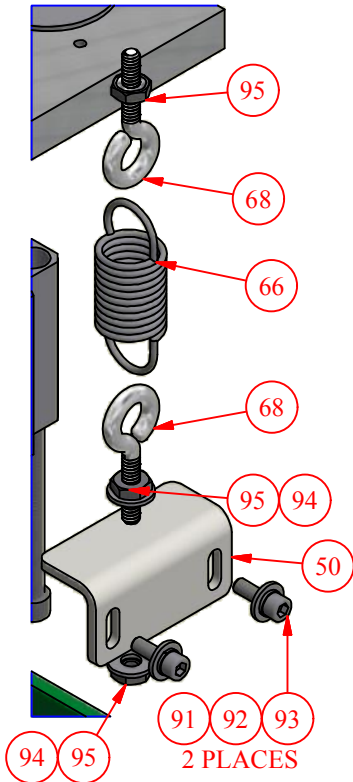
ITEM	QTY	PART NUMBER	TITLE
1	1	383916-A	V WHEEL MOUNTING PLATE
6	1	383334	AIR CYLINDER
10	1	383776	112 EXTERME HEAT SYSTEM MOUNTING BRACKET
31	1	383914-A	VERTICAL SLIDE MOUNTING PLATE
32	1	383936-A	GUSSET PLATE, 112EX HEAD
42	1	112EXUDA	112EXTREME UPPER DRIVE ASSEMBLY
59	1	384930	MICROMETER
61	1	388168	RAIL
62	1	388254	CARRIAGE
63	2	383782-2-B	112 EXTREME WELD ROLLER TUBE MOUNTING PLATE
64	1	384232	112 EXTREME CABLE CARRIER MOUNTING PLATE
99	1	FASTENER	CAP SCREW



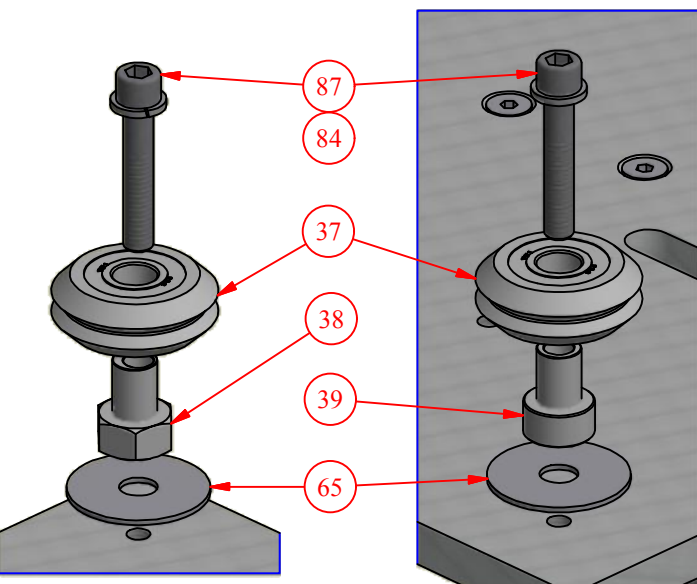
ITEM	QTY	PART NUMBER	TITLE
5	1	381183	MOTOR
8	1	383788-A	112 EXTREME PILLOW BLOCK SPACER ASSEMBLY
9	1	383992-A	112 EXTREME CUTTER AIR SLIDE ADAPTOR ASS'Y
17	1	384780	112EX SIDE COVER LOWER MOUNTING BRACKET
31	1	383914-A	VERTICAL SLIDE MOUNTING PLATE
32	1	383936-A	GUSSET PLATE, 112EX HEAD
33	1	384814	AIR SLIDE
36	1	384596	ELECTRIC CUTTER
65	10	FASTENER	FENDER WASHER
52	2	379071	AIR REGULATOR MOUNTING BRACKET
60	1	384804	ENCODER
61	1	388168	RAIL
62	1	388254	CARRIAGE
63	2	383782-2-B	112 EXTREME WELD ROLLER TUBE MOUNTING PLATE
64	1	384232	112 EXTREME CABLE CARRIER MOUNTING PLATE
99	1	FASTENER	CAP SCREW



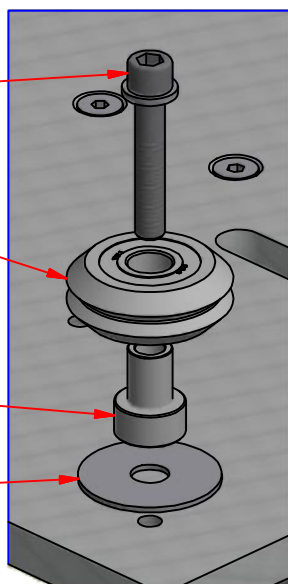
DETAIL A SCALE 1/2



ITEM	ITEM QTY	PART NUMBER	TITLE
50	1	379841	DOOR STOP ANGLE
68	2	FASTENER	EYEBOLT
66	1	SPRING	SPRING
91	2	FASTENER	FLAT WASHER
92	2	FASTENER	LOCK WASHER
93	2	FASTENER	CAP SCREW
94	2	FASTENER	FLAT WASHER
95	3	FASTENER	HEX NUT
61	1	388168	RAIL
62	1	388254	CARRIAGE
63	2	383782-2-B	112 EXTREME WELD ROLLER TUBE MOUNTING PLATE
64	1	384232	112 EXTREME CABLE CARRIER MOUNTING PLATE
99	1	FASTENER	CAP SCREW



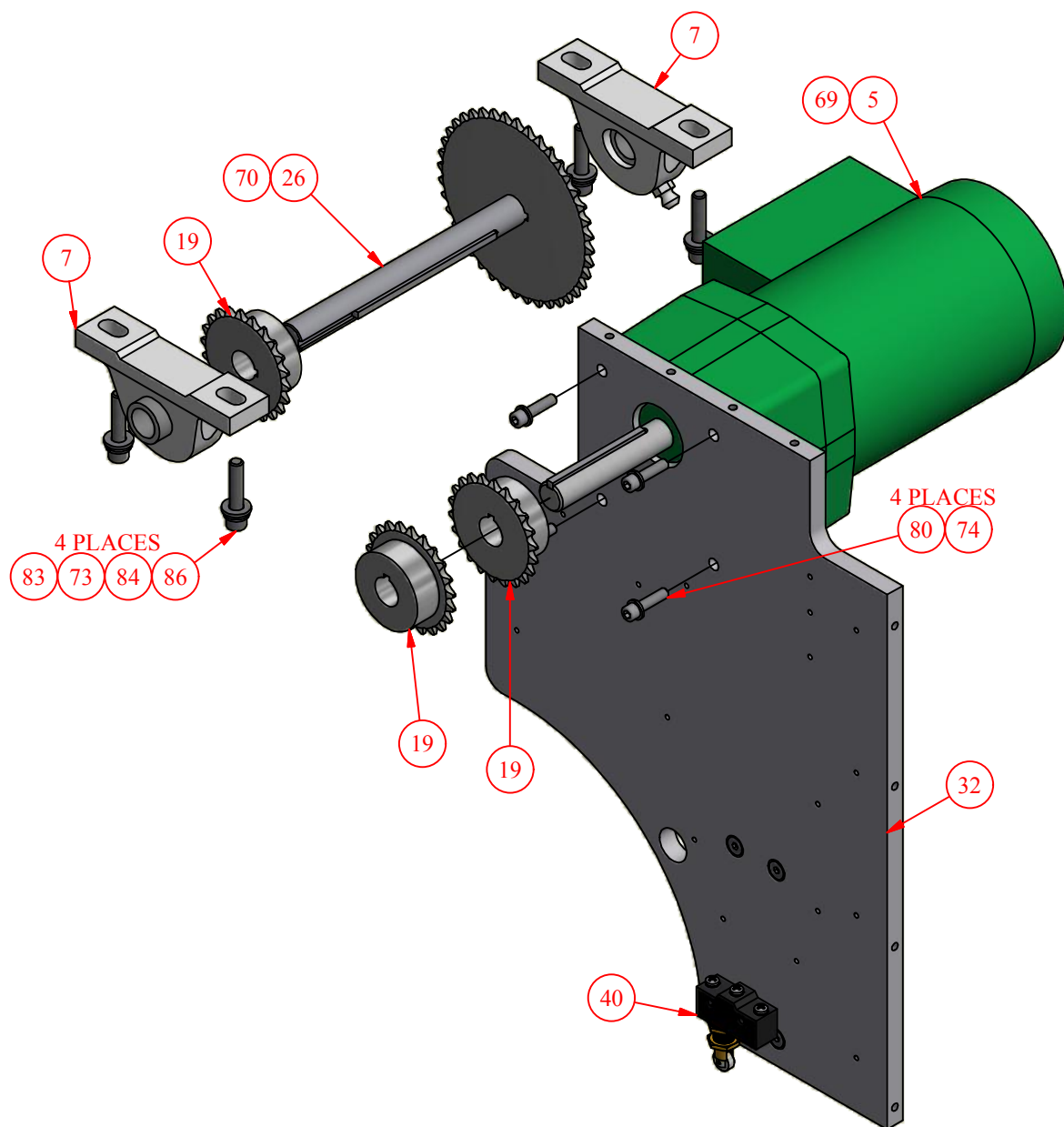
DETAIL B SCALE 1/2 3 PLACES



DETAIL C SCALE 1/2 3 PLACES

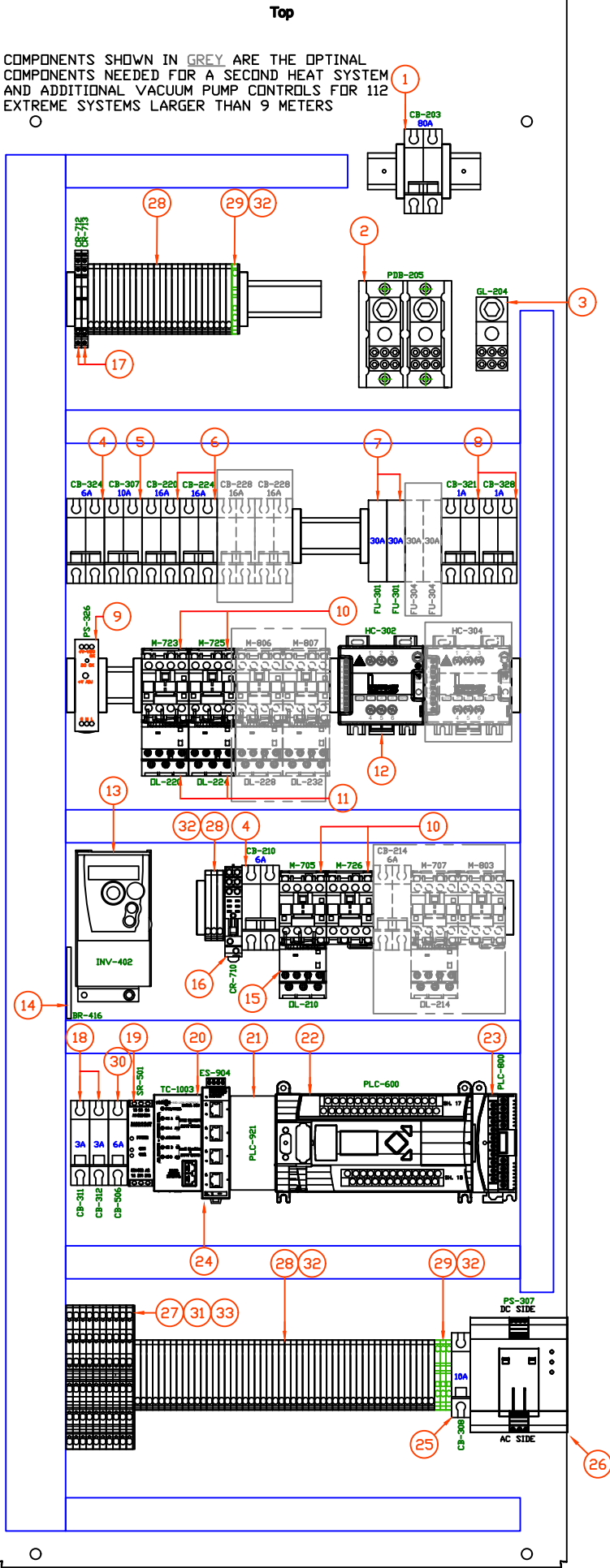
ITEM	ITEM QTY	PART NUMBER	TITLE
37	6	383380	V-WHEEL
38	3	370073	V-WHEEL BUSHING
39	3	370069	V-WHEEL BUSHING
65	10	FASTENER	FENDER WASHER
84	12	FASTENER	LOCK WASHER
87	6	FASTENER	CAP SCREW
61	1	388168	RAIL
62	1	388254	CARRIAGE
63	2	383782-2-B	112 EXTREME WELD ROLLER TUBE MOUNTING PLATE
64	1	384232	112 EXTREME CABLE CARRIER MOUNTING PLATE
99	1	FASTENER	CAP SCREW

ITEM	ITEM QTY	PART NUMBER	TITLE
3	1	370028	SPROCKET
5	1	381183	MOTOR
7	2	370062	BEARING
19	3	370019	SPROCKET
26	1	383942	112 EXTREME MAIN DRIVE SHAFT
32	1	383936-A	GUSSET PLATE, 112EX HEAD
40	1	330093	MICRO SWITCH
69	1	112EXWH-A_key1	KEYSTOCK
70	1	112EXWH-A_key2	KEYSTOCK
61	1	388168	RAIL
62	1	388254	CARRIAGE
63	2	383782-2-B	112 EXTREME WELD ROLLER TUBE MOUNTING PLATE
64	1	384232	112 EXTREME CABLE CARRIER MOUNTING PLATE
99	1	FASTENER	CAP SCREW



ITEM	QTY	PART NUMBER	TITLE
1	1	383916-A	V WHEEL MOUNTING PLATE
2	1	379184	COMPRESSOR
3	1	370028	SPROCKET
4	4	370261	AIR COMPRESSOR MOUNT
5	1	381183	MOTOR
6	1	383334	AIR CYLINDER
7	2	370062	BEARING
8	1	383788-A	112 EXTREME PILLOW BLOCK SPACER ASSEMBLY
9	1	383992-A	112 EXTREME CUTTER AIR SLIDE ADAPTOR ASS'Y
10	1	383776	112 EXTERME HEAT SYSTEM MOUNTING BRACKET
11	1	383778	HEATING UNIT MOUNTING ROD ASSEMBLY
12	1	383774	112 EXTREME PIVOT ARM ASSEMBLY, UNPAINTED
13	1	383772	HEATING UNIT MOUNTING WELDMENT
14	1	350021	PIVOT BRACKET FOR NOZZLE SWING AIR CYLINDERS
15	1	383798	AIR CYLINDER
16	1	383930	112 EXTREME SIDE COVER UPPER MOUNTING BRACKET
17	1	384780	112EX SIDE COVER LOWER MOUNTING BRACKET
18	1	383940	112 EXTREME COMPRESSOR MOUNTING BRACKET ASSEMBLY
19	3	370019	SPROCKET
20	1	383900	112 EXTREME SIDE COVER UPPER MOUNTING BRACKET ASS'Y
21	1	370209	CLAMPING COLLAR
22	1	383944	112 EXTREME COMPRESSOR BRACKET WIRE COVER
23	2	383870	112 EXTREME SIDE COVER LOWER MOUNTING BRACKET SUPPORT ARM
24	1	384026	112EX TOUCH SCREEN MOUNT
25	1	383896	112 EXTREME COMPRESSOR COVER
26	1	383942	112 EXTREME MAIN DRIVE SHAFT
27	1	379976	BALL STYLE DUAL ELEMENT HOUSING ASSY. (W/ WRAPS & THERMOCOUPLE)
28	1	384322	112 EXTREME SWING CYLINDER MOUNTING BRACKET
29	1	382116	ROD CLEVIS
30	1	383886	112 EXTREME CYLINDER MOUNTING BRACKET
31	1	383914-A	VERTICAL SLIDE MOUNTING PLATE
32	1	383936-A	GUSSET PLATE, 112EX HEAD
33	1	384814	AIR SLIDE
34	1	384781	112EX TOUCH SCREEN MOUNTING BRACKET
35	1	384782	112EX TOUCH SCREEN MOUNTING BRACKET
36	1	384596	ELECTRIC CUTTER
37	6	383380	V-WHEEL
38	3	370073	V-WHEEL BUSHING
39	3	370069	V-WHEEL BUSHING
40	1	330093	MICRO SWITCH
41	1	383360	112 EXTREME HEAD FRONT COVER (HMI)
42	1	112EXUDA	112EXTREME UPPER DRIVE ASSEMBLY
43	1	350005	WELD ROLLER/OUTBOARD & INBOARD PULLER AIR CYL. ROD CLEVIS
44	2	330305	HOT AIR HEAT ELEMENT
45	1	321607	ALUMINUM DUAL ELEMENT HOUSING TOP AIR MANIFOLD ASSEMBLY
46	2	384020	112 EXTREME HEAT SWING GUARD MOUNTING SHAFT, 6"
47	1	384016	112 EXTREME HEAT SWING GUARD MOUNTING BRACKET
48	1	384014	112 EXTREME HEAT SWING GUARD MOUNTING SHAFT WITH TAPPED HOLE
49	1	384012-A	HEAT SWING GUARD
50	1	379841	DOOR STOP ANGLE
51	1	384810	ENCODER MOUNT
52	2	379071	AIR REGULATOR MOUNTING BRACKET

ITEM	QTY	PART NUMBER	TITLE
53	1	112EXWH-A_RC	ROLLER CHAIN
54	1	112EXWH-A_Roller Chain	ROLLER CHAIN
55	1	383362	112 EXTREME HEAD REAR COVER (MOTOR)
56	1	383364	112 EXTREME HEAD RIGHT SIDE COVER (HEAT SYSTEM)
57	1	383366	112 EXTREME HEAD LEFT SIDE COVER (TAPE DISPENSER)
58	1	112EXIA	112 EXTREME IDLER ASSEMBLY ON WELDING HEAD
59	1	384930	MICROMETER
60	1	384804	ENCODER
61	1	388168	RAIL
62	1	388254	CARRIAGE
63	2	383782-2-B	112 EXTREME WELD ROLLER TUBE MOUNTING PLATE
64	1	384232	112 EXTREME CABLE CARRIER MOUNTING PLATE
65	10	FASTENER	FENDER WASHER
66	1	SPRING	SPRING
67	2	FASTENER	FLAT WASHER
68	2	FASTENER	EYEBOLT
69	1	112EXWH-A_key1	KEYSTOCK
70	1	112EXWH-A_key2	KEYSTOCK
71	1	FASTENER	ACORN NUT
72	2	FASTENER	HEX NUT
73	20	FASTENER	FLAT WASHER
74	36	FASTENER	LOCK WASHER
75	5	FASTENER	CAP SCREW
76	2	FASTENER	CAP SCREW
77	6	FASTENER	CAP SCREW
78	11	FASTENER	CAP SCREW
79	3	FASTENER	CAP SCREW
80	6	FASTENER	CAP SCREW
81	4	FASTENER	CAP SCREW
82	4	FASTENER	CAP SCREW
83	6	FASTENER	FLAT WASHER
84	12	FASTENER	LOCK WASHER
85	2	FASTENER	HEX BOLT
86	4	FASTENER	CAP SCREW
87	6	FASTENER	CAP SCREW
88	4	FASTENER	FLAT WASHER
89	4	FASTENER	LOCK WASHER
90	4	FASTENER	CAP SCREW
91	2	FASTENER	FLAT WASHER
92	2	FASTENER	LOCK WASHER
93	2	FASTENER	CAP SCREW
94	2	FASTENER	FLAT WASHER
95	3	FASTENER	HEX NUT
96	8	FASTENER	CAP SCREW
97	2	FASTENER	CAP SCREW
98	4	FASTENER	CAP SCREW
99	1	FASTENER	CAP SCREW



ITEM NO.	QTY	PART NUMBER	MANUFACTURER	DESCRIPTION	LOC	COMPONENT TAG	ITEM NO.	QTY	PART NUMBER	MANUFACTURER	DESCRIPTION	LOC	COMPONENT TAG
1	1	380651	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 80A	VH6	CB-203	34	111"	379392	MILLER WELDMASTER	35MM DIN RAIL, 79" LENGTHS	W	
2	1	379508 379509	MILLER WELDMASTER	2 POLE POWER DISTRIBUTION BLOCK, 335A WITH COVER	VB3	PDB-205	35	18	380219	MILLER WELDMASTER	35MM DIN RAIL END ANCHOR	VB4	
3	1	389506	MILLER WELDMASTER	SINGLE POLE GROUND LUG	VB3	GL-204	36	1	383341	MILLER WELDMASTER	112 EXTREME 18", CAT6 BLUE PATCH CABLE	VC3	
4	2	383143	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 6A, D-CURVE	VH8	CB-210,214 CB-324	37	156"	384958	MILLER WELDMASTER	PANDUIT 1" X 3" WIRE WAY, GREY	WW	
5	1	383149	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 10A, D-CURVE	VH7	CB-307	38	156"	384952	MILLER WELDMASTER	PANDUIT 1" WIRE WAY COVER, GREY	VMI	
6	2	384058	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 16A, D-CURVE	VH2	CB-220,224 CB-228,232	39	72"	384960	MILLER WELDMASTER	PANDUIT 2" X 3" WIRE WAY, GREY	WW	
7	2	380039 380105	MILLER WELDMASTER	FUSE HOLDER, 30A, WITH INDICATOR LIGHT WITH ONE 30A FNM FUSE	VH3 VBIN	FU-301 FU-304	40	72"	384954	MILLER WELDMASTER	PANDUIT 2" WIRE WAY COVER, GREY	VMI	
8	2	384580	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 1A, C-CURVE	VH9	CB-321 CB-328	41	19"	384964	MILLER WELDMASTER	PANDUIT TYPE FL FLEXIBLE WIRING DUCT, .49" X .49" X 19.7" LONG (DINOSAUR DUCT)	WW4	
9	1	386546	MILLER WELDMASTER	5VDC POWER SUPPLY, 3A	VC5	PS-326							
10	4	384865	MILLER WELDMASTER	CONTACTOR, D-LINE, 25A, 24VDC COIL	VD4	M-705,707,723 M-725,726,803 M-806,807							
11	2	LRD16	MILLER WELDMASTER	THERMAL PROTECTION FOR D-LINE CONTACTOR, 9.0-13.0A	NS	OL-220,224 OL-228,232							
12	1	385026	MILLER WELDMASTER	DIN-A-MITE B SINGLE PHASE WATLOW SCR (HEATER RELAY), ZERO CROSS, 4-20mA, 30A, 120-240VAC	VB3	HC-302 HC-304							
13	1	381502	MILLER WELDMASTER	ATV312, 1/4 HP AC DRIVE (INVERTER)	VE2	INV-400							
14	1	381571 383124	MILLER WELDMASTER	DYNAMIC BRAKING RESISTOR, 50 OHM, 50W WITH MOUNTING BRACKET	VE3 LM4	BR-416							
15	1	384867	MILLER WELDMASTER	THERMAL PROTECTION FOR D-LINE CONTACTOR, 4-6A	XD5	OL-210 OL-214							
16	1	330708 384612	MILLER WELDMASTER	OMRON, 2 POLE, 6A RELAY, 24VDC COIL WITH OMRON CONTROL RELAY SOCKET	VC4	CR-710							
17	2	388580	MILLER WELDMASTER	WAGO, 1 POLE RELAY, 24VDC COIL	VC4	CR-712 CR-713							
18	2	384209	MILLER WELDMASTER	CIRCUIT BREAKER, 1 POLE, 3A, C-CURVE	VH2	CB-311 CB-312							
19	1	384638	MILLER WELDMASTER	SAFETY RELAY, MINOTAUR, MSR126T, 24V AC/DC, 2N.O., 22.5mm	VC4	SR-501							
20	1	383686 384244	MILLER WELDMASTER	RED LION ANALOG TEMPERATURE CONTROLLER WITH 112 EXTREME RED LION 4PT CONNECTOR, RJ11	VG6 VC2	TC-1003							
21	1	383682	MILLER WELDMASTER	ALLEN BRADLEY 485 TO ML1100 COMMUNICATION CABLE	VC2	PLC-921							
22	1	384518	MILLER WELDMASTER	ALLEN BRADLEY ML1400 PLC BASE UNIT	VC2	PLC-600							
23	1	383678	MILLER WELDMASTER	ALLEN BRADLEY, MICROLOGIX, PLC 16PT DC OUTPUT CARD	VC2	PLC-800							
24	1	382712	MILLER WELDMASTER	5 PORT UNMANAGED SWITCH (ETHERNET SWITCH HUB)	VC2	ES-904							
25	1	383148	MILLER WELDMASTER	CIRCUIT BREAKER, 1 POLE, 10A, D-CURVE	VH2	CB-308							
26	1	389290	MILLER WELDMASTER	WAGO POWER SUPPLY, 24VDC 10A	VC1	PS-308							
27	10	384510	MILLER WELDMASTER	ALLEN BRADLEY DIN RAIL 3-STACK TERMINAL BLOCK, SPRING CAGE	VB4								
28	81	384512	MILLER WELDMASTER	ALLEN BRADLEY ONE CIRCUIT FEED THROUGH BLOCK, 2.5MM MAX WIRE, GREY	VB4								
29	4	383966	MILLER WELDMASTER	ONE CIRCUIT BEED THROUGH GROUND BLOCK, 2.5MM MAX WIRE, GREEN/YELLOW	VB4								
30	1	384211	MILLER WELDMASTER	CIRCUIT BREAKER, 1 POLE, 6A, D-CURVE	VH2	CB-506							
31	1	383302	MILLER WELDMASTER	DIN RAIL END BARRIER, GREY, USED ON 384510	VB4								
32	4	383312	MILLER WELDMASTER	DIN RAIL END BARRIER, GREY	VB4								
33	3	383304	MILLER WELDMASTER	ALLEN BRADLEY CENTER JUMPER, 5MM CENTER TO CENTER, 10 POLE, YELLOW	VB4								

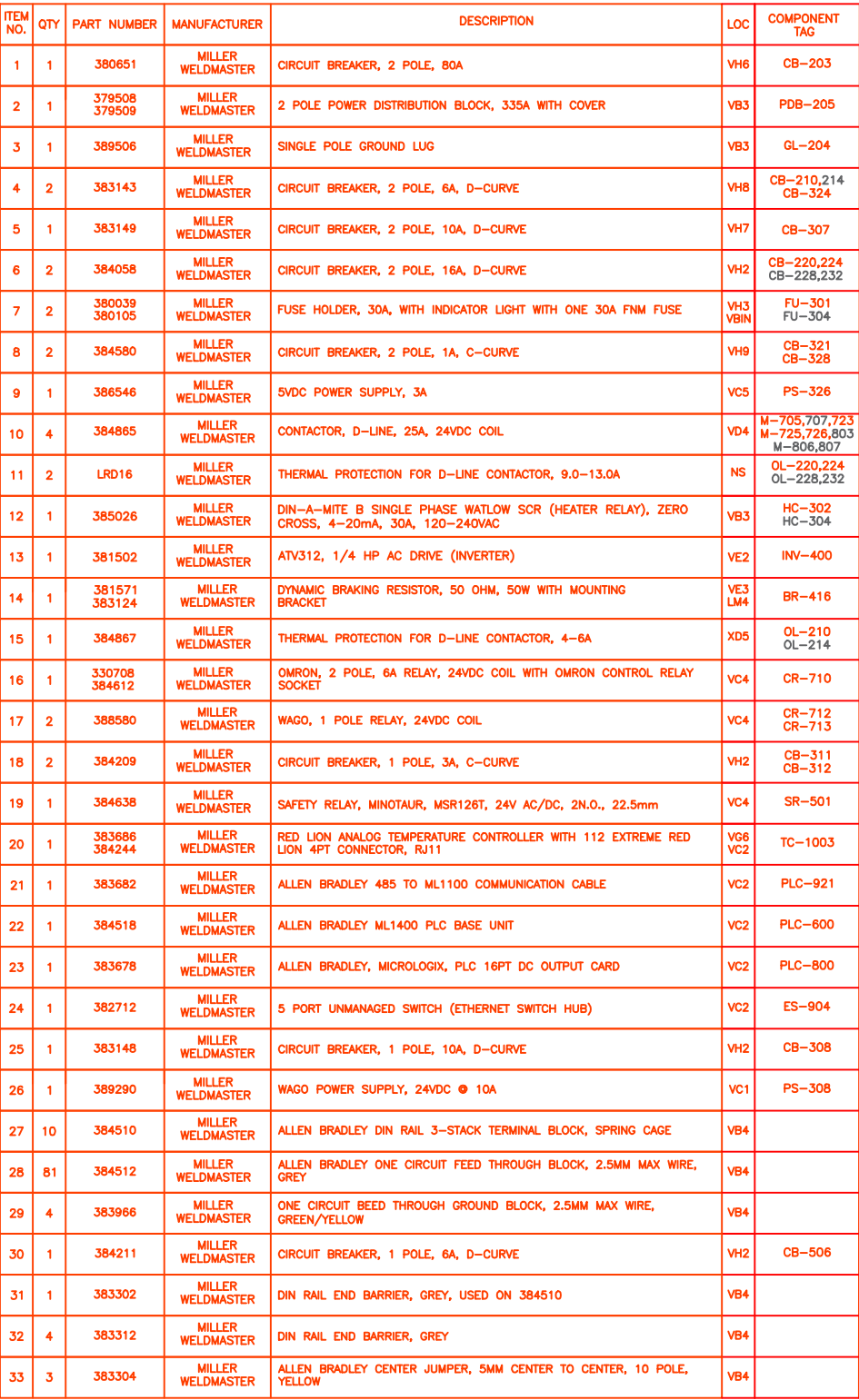
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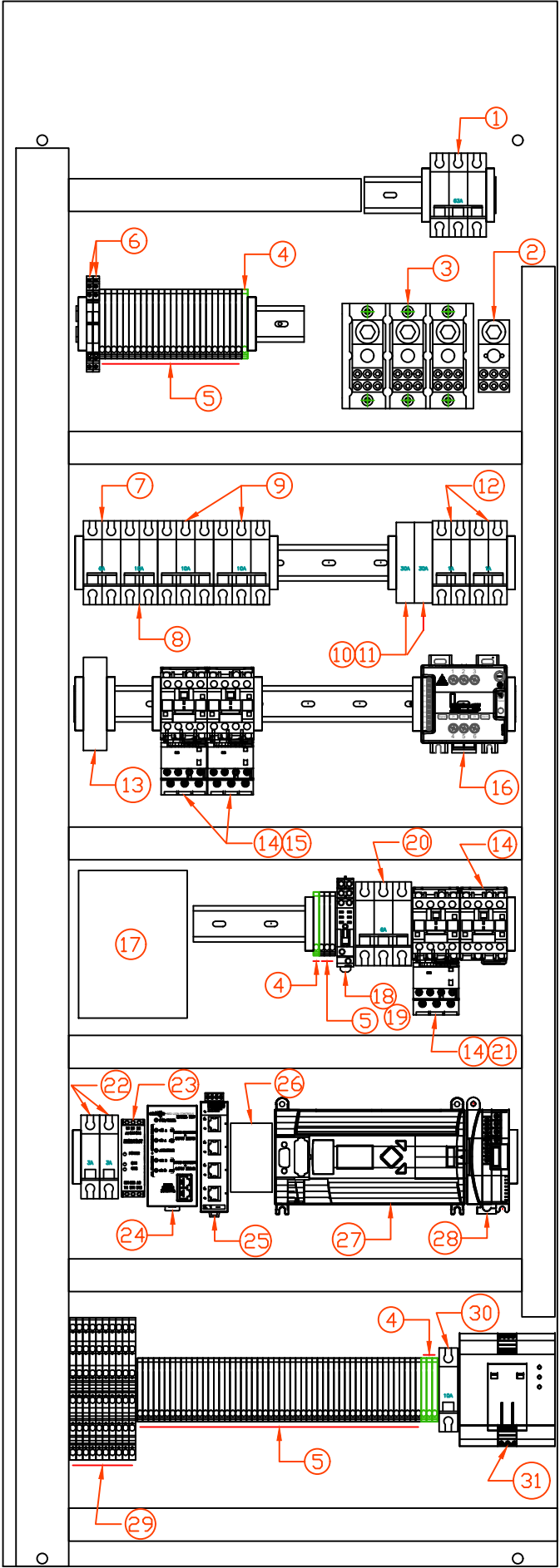
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CAL	XXXXX	112MCP PANEL		
DATE	SERIAL NO	112EX-XXXX-XXXX		
6/30/2016				
DWG NO				



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CAD DWG FILE T:\FILES NOT VAULTED\112EX1PH2H4V\112EX1PH2H4V 2 1\XXXXXX PANEL.DWG

ITEM NO.	QTY	PART NUMBER	MANUFACTURER	DESCRIPTION	LOC
1	1	380650	MILLER WELDMASTER	CIRCUIT BREAKER, 3 POLE, 63A	VH3
2	1	389506	MILLER WELDMASTER	SINGLE POLE GROUND LUG	VB3
3	1	379510 379511	MILLER WELDMASTER	3 POLE POWER DISTRIBUTION BLOCK, 335A WITH COVER	VB3
4	5	383966	MILLER WELDMASTER	ONE CIRCUIT BEED THROUGH GROUND BLOCK, 2.5MM MAX WIRE, GREEN/YELLOW	VB4
5	76	384512	MILLER WELDMASTER	ALLEN BRADLEY ONE CIRCUIT FEED THROUGH BLOCK, 2.5MM MAX WIRE, GREY	VB4
6	2	388580	MILLER WELDMASTER	WAGO, 1 POLE RELAY, 24VDC COIL	VC4
7	1	383143	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 6A, D-CURVE	VH8
8	1	383149	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 10A, D-CURVE	VH8
9	2	383151	MILLER WELDMASTER	CIRCUIT BREAKER, 3 POLE, 10A, D-CURVE	VH5
10	2	380039	MILLER WELDMASTER	FUSE HOLDER, 30A, WITH INDICATING LIGHT	VH3
11	2	380105	MILLER WELDMASTER	30A FUSE, FNM TYPE	V/BIN
12	2	384580	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 1A, C-CURVE	VH9
13	1	386546	MILLER WELDMASTER	5VDC POWER SUPPLY, 3A	VC5
14	4	384865	MILLER WELDMASTER	TELEMECHANIQUE CONTACTOR	VD4
15	2	384868	MILLER WELDMASTER	THERMAL PROTECTION FOR D-LINE CONTACTOR, 7-10A	VD4
16	1	385026	MILLER WELDMASTER	DIN-A-MITE B SINGLE PHASE WATLOW SCR (HEATER RELAY), ZERO CROSS	VB3
17	1	381502	MILLER WELDMASTER	ATV 312 1/4 HP AC DRIVE (INVERTER)	VE2
18	1	384612	MILLER WELDMASTER	OMRON, 2 POLE, 6A RELAY, 24VDC COIL	VC4
19	1	330708	MILLER WELDMASTER	OMRON RELAY SOCKET	VC4
20	1	384972	MILLER WELDMASTER	CIRCUIT BREAKER, 3 POLE, 6A, D-CURVE	VH5
21	1	384867	SCHNEIDER ELECTRIC	THERMAL PROTECTION FOR D-LINE CONTACTOR, 4-6A	XD5
22	2	384209	MILLER WELDMASTER	CIRCUIT BREAKER, 1 POLE, 3A, C-CURVE	VH2
23	1	384638	MILLER WELDMASTER	SAFETY RELAY, MINOTAUR, MSR126T, 24V AC/DC, 2 NO, 22.5MM CASE	VC4
24	1	383686	MILLER WELDMASTER	RED LION ANALOG TEMPERATURE CONTROLLER	VG6
25	1	382712	MILLER WELDMASTER	5 PORT UNMANAGED SWITCH (ETHERNET SWITCH HUB)	VC2
26	1	383682	MILLER WELDMASTER	ALLEN BRADLEY 485 TO ML1100 COMMUNICATION CABLE	VC2
27	1	384518	MILLER WELDMASTER	ALLEN BRADLEY ML1400 PLC BASE UNIT	VC2
28	1	383678	MILLER WELDMASTER	ALLEN BRADLEY, MICROLOGIX, PLC 16PT DC OUTPUT CARD	VC2
29	10	384510	MILLER WELDMASTER	ALLEN BRADLEY DIN RAIL 3-STACK TERMINAL BLOCK, SPRING CAGE	VB4
30	1	383148	MILLER WELDMASTER	CIRCUIT BREAKER, 1 POLE, 10A, D-CURVE	VH1
31	1	389290	MILLER WELDMASTER	WAGO POWER SUPPLY, 24VDC ☉ 10A	VC1
32	-	-	-	-	-



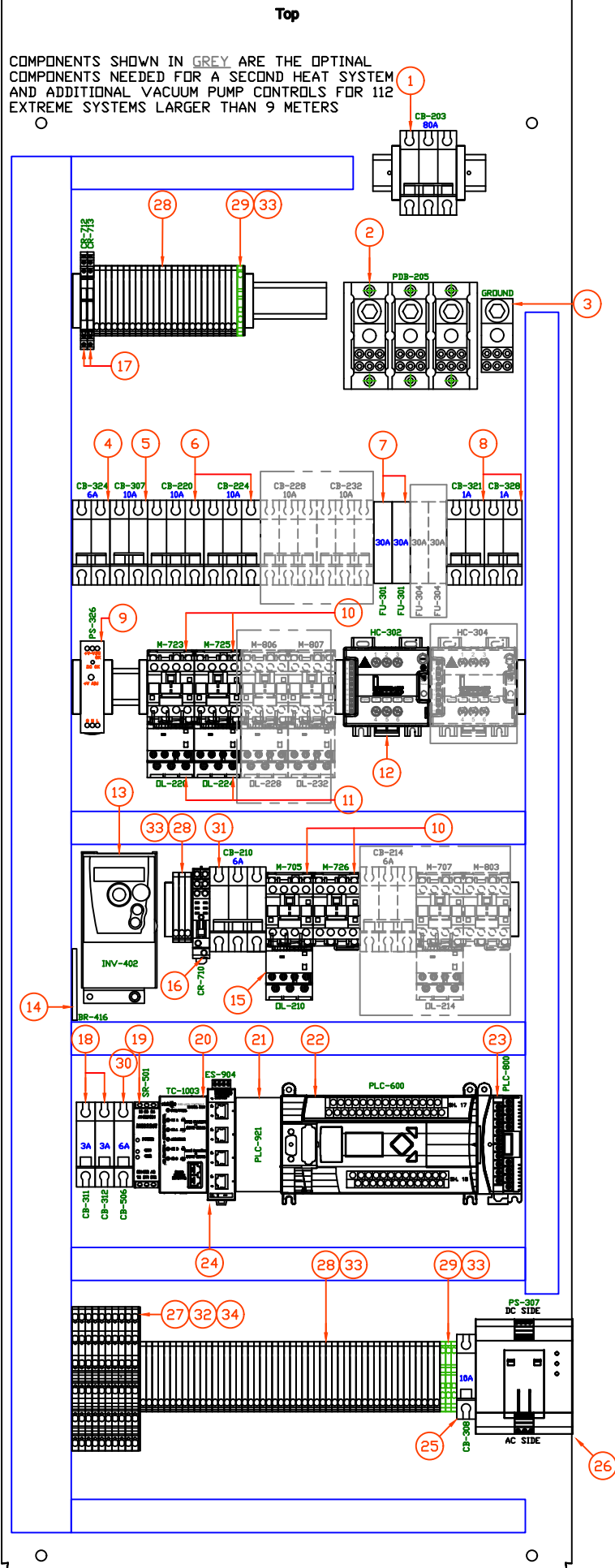
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MILLER WELDMASTER CORPORATION

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ENGINEER	CUSTOMER MILLER WELDMASTER	112EX STANDARD 230VAC, 3 PHASE 1 HEAT SYSTEM, NO OPTIONS PANEL LAYOUT	REVISION
DRAWN BY CAL	JOB NO		
DATE 8/25/2015	SERIAL NO		
DWG NO	SHEET NO 13 OF 13		



ITEM NO.	QTY	PART NUMBER	MANUFACTURER	DESCRIPTION	LOC	COMPONENT TAG	ITEM NO.	QTY	PART NUMBER	MANUFACTURER	DESCRIPTION	LOC	COMPONENT TAG
1	1	380652	MILLER WELDMASTER	CIRCUIT BREAKER, 3 POLE, 80A	VH6	CB-203	35	111"	379392	MILLER WELDMASTER	35MM DIN RAIL, 79" LENGTHS	W	
2	1	379510 379511	MILLER WELDMASTER	3 POLE POWER DISTRIBUTION BLOCK, 335A WITH COVER	VB3	PDB-205	36	18	380219	MILLER WELDMASTER	35MM DIN RAIL END ANCHOR	VB4	
3	1	389506	MILLER WELDMASTER	SINGLE POLE GROUND LUG	VB3	GL-204	37	1	383341	MILLER WELDMASTER	112 EXTREME 18", CAT6 BLUE PATCH CABLE	VC3	
4	1	383143	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 6A, D-CURVE	VH8	CB-324	38	156"	384958	MILLER WELDMASTER	PANDUIT 1" X 3" WIRE WAY, GREY	WW	
5	1	383149	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 10A, D-CURVE	VH7	CB-307	39	156"	384952	MILLER WELDMASTER	PANDUIT 1" WIRE WAY COVER, GREY	VMI	
6	2	383151	MILLER WELDMASTER	CIRCUIT BREAKER, 3 POLE, 10A, D-CURVE	VH2	CB-220,224 CB-228,232	40	72"	384960	MILLER WELDMASTER	PANDUIT 2" X 3" WIRE WAY, GREY	WW	
7	2	380039 380105	MILLER WELDMASTER	FUSE HOLDER, 30A, WITH INDICATOR LIGHT WITH ONE 30A FNM FUSE	VH3 VBIN	FU-301 FU-304	41	72"	384954	MILLER WELDMASTER	PANDUIT 2" WIRE WAY COVER, GREY	VMI	
8	2	384580	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 1A, C-CURVE	VH9	CB-321 CB-328	42	19"	384964	MILLER WELDMASTER	PANDUIT TYPE FL FLEXIBLE WIRING DUCT, .49" X .49" X 19.7" LONG (DINOSAUR DUCT)	WW4	
9	1	386546	MILLER WELDMASTER	5VDC POWER SUPPLY, 3A	VC5	PS-326							
10	4	384865	MILLER WELDMASTER	CONTACTOR, D-LINE, 25A, 24VDC COIL	VD4	M-705,707,723 M-725,726,803 M-806,807							
11	2	384868	MILLER WELDMASTER	THERMAL PROTECTION FOR D-LINE CONTACTOR, 7.0-10.0A	NS	OL-220,224 OL-228,232							
12	1	385026	MILLER WELDMASTER	DIN-A-MITE B SINGLE PHASE WATLOW SCR (HEATER RELAY), ZERO CROSS, 4-20mA, 30A, 120-240VAC	VB3	HC-302 HC-304							
13	1	381502	MILLER WELDMASTER	ATV312, 1/4 HP AC DRIVE (INVERTER)	VE2	INV-400							
14	1	381571 383124	MILLER WELDMASTER	DYNAMIC BRAKING RESISTOR, 50 OHM, 50W WITH MOUNTING BRACKET	VE3 LM4	BR-416							
15	1	384867	MILLER WELDMASTER	THERMAL PROTECTION FOR D-LINE CONTACTOR, 4-6A	XD5	OL-210 OL-214							
16	1	330708 384612	MILLER WELDMASTER	OMRON, 2 POLE, 6A RELAY, 24VDC COIL WITH OMRON CONTROL RELAY SOCKET	VC4	CR-710							
17	2	388580	MILLER WELDMASTER	WAGO, 1 POLE RELAY, 24VDC COIL	VC4	CR-712 CR-713							
18	2	384209	MILLER WELDMASTER	CIRCUIT BREAKER, 1 POLE, 3A, C-CURVE	VH2	CB-311 CB-312							
19	1	384638	MILLER WELDMASTER	SAFETY RELAY, MINOTAUR, MSR126T, 24V AC/DC, 2N.O., 22.5mm	VC4	SR-501							
20	1	383686 384244	MILLER WELDMASTER	RED LION ANALOG TEMPERATURE CONTROLLER WITH 112 EXTREME RED LION 4PT CONNECTOR, RJ11	VG6 VC2	TC-1003							
21	1	383682	MILLER WELDMASTER	ALLEN BRADLEY 485 TO ML1100 COMMUNICATION CABLE	VC2	PLC-921							
22	1	384518	MILLER WELDMASTER	ALLEN BRADLEY ML1400 PLC BASE UNIT	VC2	PLC-600							
23	1	383678	MILLER WELDMASTER	ALLEN BRADLEY, MICROLOGIX, PLC 16PT DC OUTPUT CARD	VC2	PLC-800							
24	1	382712	MILLER WELDMASTER	5 PORT UNMANAGED SWITCH (ETHERNET SWITCH HUB)	VC2	ES-904							
25	1	383148	MILLER WELDMASTER	CIRCUIT BREAKER, 1 POLE, 10A, D-CURVE	VH2	CB-308							
26	1	389290	MILLER WELDMASTER	WAGO POWER SUPPLY, 24VDC 10A	VC1	PS-308							
27	10	384510	MILLER WELDMASTER	ALLEN BRADLEY DIN RAIL 3-STACK TERMINAL BLOCK, SPRING CAGE	VB4								
28	81	384512	MILLER WELDMASTER	ALLEN BRADLEY ONE CIRCUIT FEED THROUGH BLOCK, 2.5MM MAX WIRE, GREY	VB4								
29	4	383966	MILLER WELDMASTER	ONE CIRCUIT BEED THROUGH GROUND BLOCK, 2.5MM MAX WIRE, GREEN/YELLOW	VB4								
30	1	384211	MILLER WELDMASTER	CIRCUIT BREAKER, 1 POLE, 6A, D-CURVE	VH2	CB-506							
31	1	384972	MILLER WELDMASTER	CIRCUIT BREAKER, 3 POLE, 6A, D-CURVE	VH2	CB-210 CB-214							
32	1	383302	MILLER WELDMASTER	DIN RAIL END BARRIER, GREY, USED ON 384510	VB4								
33	4	383312	MILLER WELDMASTER	DIN RAIL END BARRIER, GREY	VB4								
34	3	383304	MILLER WELDMASTER	ALLEN BRADLEY CENTER JUMPER, 5MM CENTER TO CENTER, 10 POLE, YELLOW	VB4								

CAD DWG FILE T:\FILES NOT VAULTED\112EX3PH2H4V\112EX3PH2H4V230V_530\112MCP_PANEL_530.DWG



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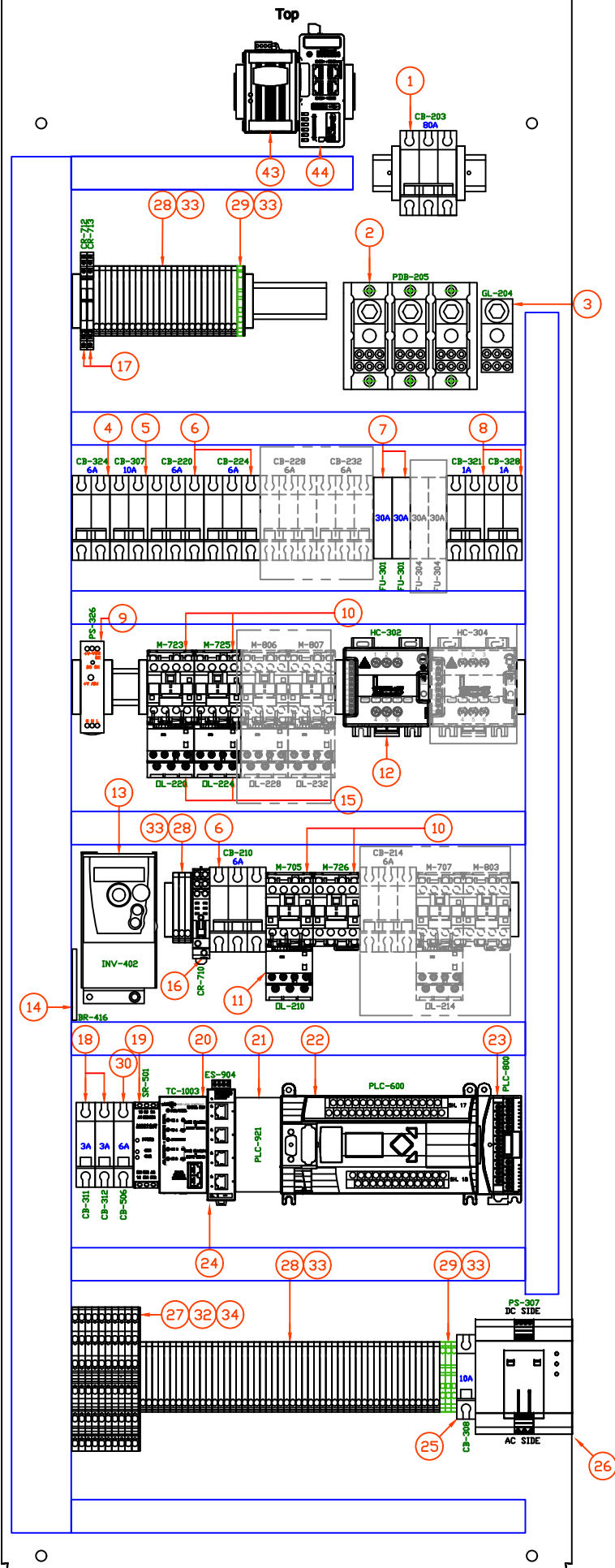
MILLER WELDMASTER
112 EXTREME X.XM
E13
112MCP PANEL

DATE 6/30/2016
SERIAL NO 112EX-XXXX-XXXX

SHEET NO 13 OF 15
REVISION VER 530

ENGINEER
ETM
DRAWN BY
CAL
DATE 6/30/2016
DWG NO

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1	1	380652	MILLER WELDMASTER	CIRCUIT BREAKER, 3 POLE, 80A	VH6	CB-203	35	111"	379392	MILLER WELDMASTER	35MM DIN RAIL, 79" LENGTHS	W	
2	1	379510 379511	MILLER WELDMASTER	3 POLE POWER DISTRIBUTION BLOCK, 335A WITH COVER	VB3	PDB-205	36	18	380219	MILLER WELDMASTER	35MM DIN RAIL END ANCHOR	VB4	
3	1	389506	MILLER WELDMASTER	SINGLE POLE GROUND LUG	VB3	GL-204	37	1	383341	MILLER WELDMASTER	112 EXTREME 18", CAT6 BLUE PATCH CABLE	VC3	
4	1	383143	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 6A, D-CURVE	VH8	CB-324	38	156"	384958	MILLER WELDMASTER	PANDUIT 1" X 3" WIRE WAY, GREY	WW	
5	1	383149	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 10A, D-CURVE	VH7	CB-307	39	156"	384952	MILLER WELDMASTER	PANDUIT 1" WIRE WAY COVER, GREY	VMI	
6	2	383151	MILLER WELDMASTER	CIRCUIT BREAKER, 3 POLE, 10A, D-CURVE	VH2	CB-220,224 CB-228,232	40	72"	384960	MILLER WELDMASTER	PANDUIT 2" X 3" WIRE WAY, GREY	WW	
7	2	380039 380105	MILLER WELDMASTER	FUSE HOLDER, 30A, WITH INDICATOR LIGHT WITH ONE 30A FNM FUSE	VH3 VBIN	FU-301 FU-304	41	72"	384954	MILLER WELDMASTER	PANDUIT 2" WIRE WAY COVER, GREY	VMI	
8	2	384580	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 1A, C-CURVE	VH9	CB-321 CB-328	42	19"	384964	MILLER WELDMASTER	PANDUIT TYPE FL FLEXIBLE WIRING DUCT, .49" X .49" X 19.7" LONG (DINOSAUR DUCT)	WW4	
9	1	386546	MILLER WELDMASTER	5VDC POWER SUPPLY, 3A	VC5	PS-326	43	1	391842	MILLER WELDMASTER	EWON REMOTE VPN	NEW	EWON-911
10	4	384865	MILLER WELDMASTER	CONTACTOR, D-LINE, 25A, 24VDC COIL	VD4	M-705,707,723 M-725,726,803 M-806,807	44	1	391844	MILLER WELDMASTER	POE INJECTOR FOR 1 POE PORT, 24V INPUT, SUPPORTS TEMPERATURES FROM -40 TO 70 DEGREES	NEW	POE-906
11	2	384868	MILLER WELDMASTER	THERMAL PROTECTION FOR D-LINE CONTACTOR, 7.0-10.0A	NS	OL-220,224 OL-228,232							
12	1	385026	MILLER WELDMASTER	DIN-A-MITE B SINGLE PHASE WATLOW SCR (HEATER RELAY), ZERO CROSS, 4-20mA, 30A, 120-240VAC	VB3	HC-302 HC-304							
13	1	381502	MILLER WELDMASTER	ATV312, 1/4 HP AC DRIVE (INVERTER)	VE2	INV-400							
14	1	381571 383124	MILLER WELDMASTER	DYNAMIC BRAKING RESISTOR, 50 OHM, 50W WITH MOUNTING BRACKET	VE3 LM4	BR-416							
15	1	384867	MILLER WELDMASTER	THERMAL PROTECTION FOR D-LINE CONTACTOR, 4-6A	XD5	OL-210 OL-214							
16	1	330708 384612	MILLER WELDMASTER	OMRON, 2 POLE, 6A RELAY, 24VDC COIL WITH OMRON CONTROL RELAY SOCKET	VC4	CR-710							
17	2	388580	MILLER WELDMASTER	WAGO, 1 POLE RELAY, 24VDC COIL	VC4	CR-712 CR-713							
18	2	384209	MILLER WELDMASTER	CIRCUIT BREAKER, 1 POLE, 3A, C-CURVE	VH2	CB-311 CB-312							
19	1	384638	MILLER WELDMASTER	SAFETY RELAY, MINOTAUR, MSR126T, 24V AC/DC, 2N.O., 22.5mm	VC4	SR-501							
20	1	383686 384244	MILLER WELDMASTER	RED LION ANALOG TEMPERATURE CONTROLLER WITH 112 EXTREME RED LION 4PT CONNECTOR, RJ11	VG6 VC2	TC-1003							
21	1	383682	MILLER WELDMASTER	ALLEN BRADLEY 485 TO ML1100 COMMUNICATION CABLE	VC2	PLC-921							
22	1	384518	MILLER WELDMASTER	ALLEN BRADLEY ML1400 PLC BASE UNIT	VC2	PLC-600							
23	1	383678	MILLER WELDMASTER	ALLEN BRADLEY, MICROLOGIX, PLC 16PT DC OUTPUT CARD	VC2	PLC-800							
24	1	382712	MILLER WELDMASTER	5 PORT UNMANAGED SWITCH (ETHERNET SWITCH HUB)	VC2	ES-904							
25	1	383148	MILLER WELDMASTER	CIRCUIT BREAKER, 1 POLE, 10A, D-CURVE	VH2	CB-308							
26	1	389290	MILLER WELDMASTER	WAGO POWER SUPPLY, 24VDC 10A	VC1	PS-308							
27	10	384510	MILLER WELDMASTER	ALLEN BRADLEY DIN RAIL 3-STACK TERMINAL BLOCK, SPRING CAGE	VB4								
28	81	384512	MILLER WELDMASTER	ALLEN BRADLEY ONE CIRCUIT FEED THROUGH BLOCK, 2.5MM MAX WIRE, GREY	VB4								
29	4	383966	MILLER WELDMASTER	ONE CIRCUIT BEED THROUGH GROUND BLOCK, 2.5MM MAX WIRE, GREEN/YELLOW	VB4								
30	1	384211	MILLER WELDMASTER	CIRCUIT BREAKER, 1 POLE, 6A, D-CURVE	VH2	CB-506							
31	1	384972	MILLER WELDMASTER	CIRCUIT BREAKER, 3 POLE, 6A, D-CURVE	VH2	CB-210 CB-214							
32	1	383302	MILLER WELDMASTER	DIN RAIL END BARRIER, GREY, USED ON 384510	VB4								
33	4	383312	MILLER WELDMASTER	DIN RAIL END BARRIER, GREY	VB4								
34	3	383304	MILLER WELDMASTER	ALLEN BRADLEY CENTER JUMPER, 5MM CENTER TO CENTER, 10 POLE, YELLOW	VB4								

COMPONENTS SHOWN IN GREY ARE THE OPTINAL COMPONENTS NEEDED FOR A SECOND HEAT SYSTEM AND ADDITIONAL VACUUM PUMP CONTROLS FOR 112 EXTREME SYSTEMS LARGER THAN 9 METERS

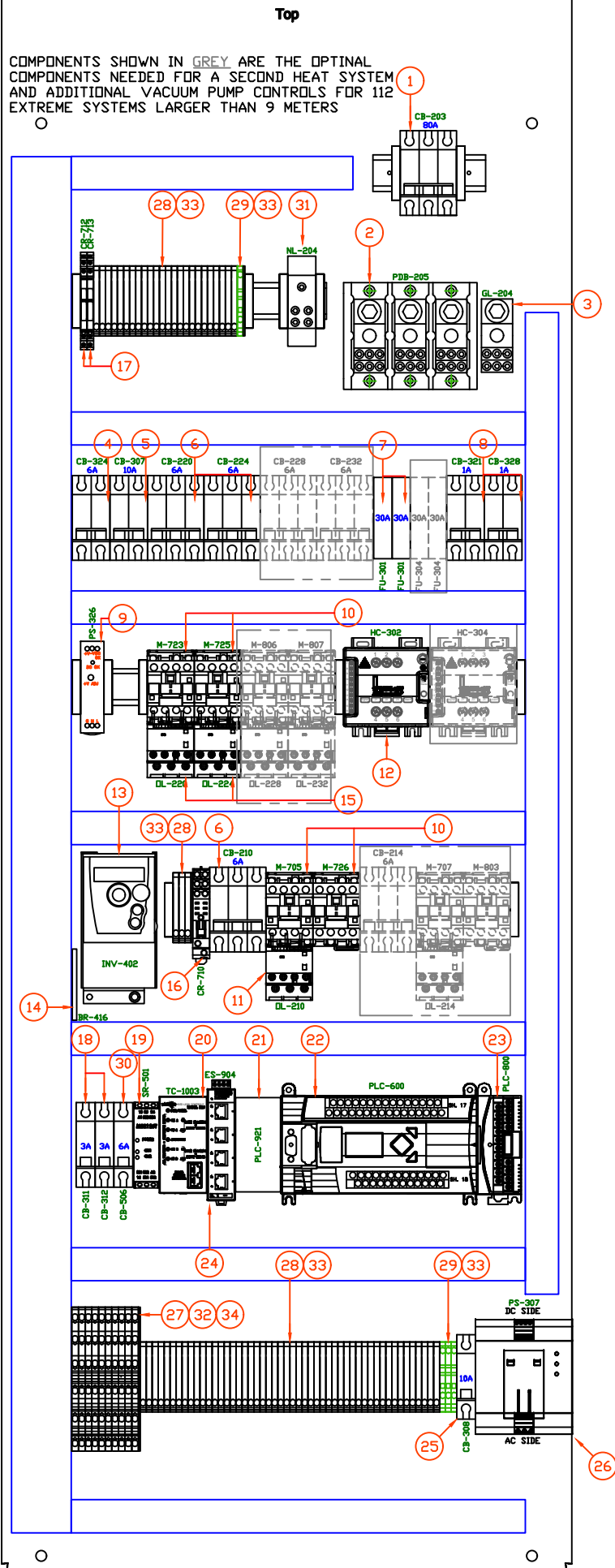
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ENGINEER	CUSTOMER	MILLER WELDMASTER	REVISION	VER 531
ETM	CUSTOMER	112 EXTREME X.XM		
DRAWN BY	JOB NO	E13		
CAL	XXXXX	112MCP PANEL		
DATE	SERIAL NO			
XX/XX/XXXX	112EX-XXXX-XXXX			
DWG NO	SHEET NO	13 OF 15		
208-240VAC				



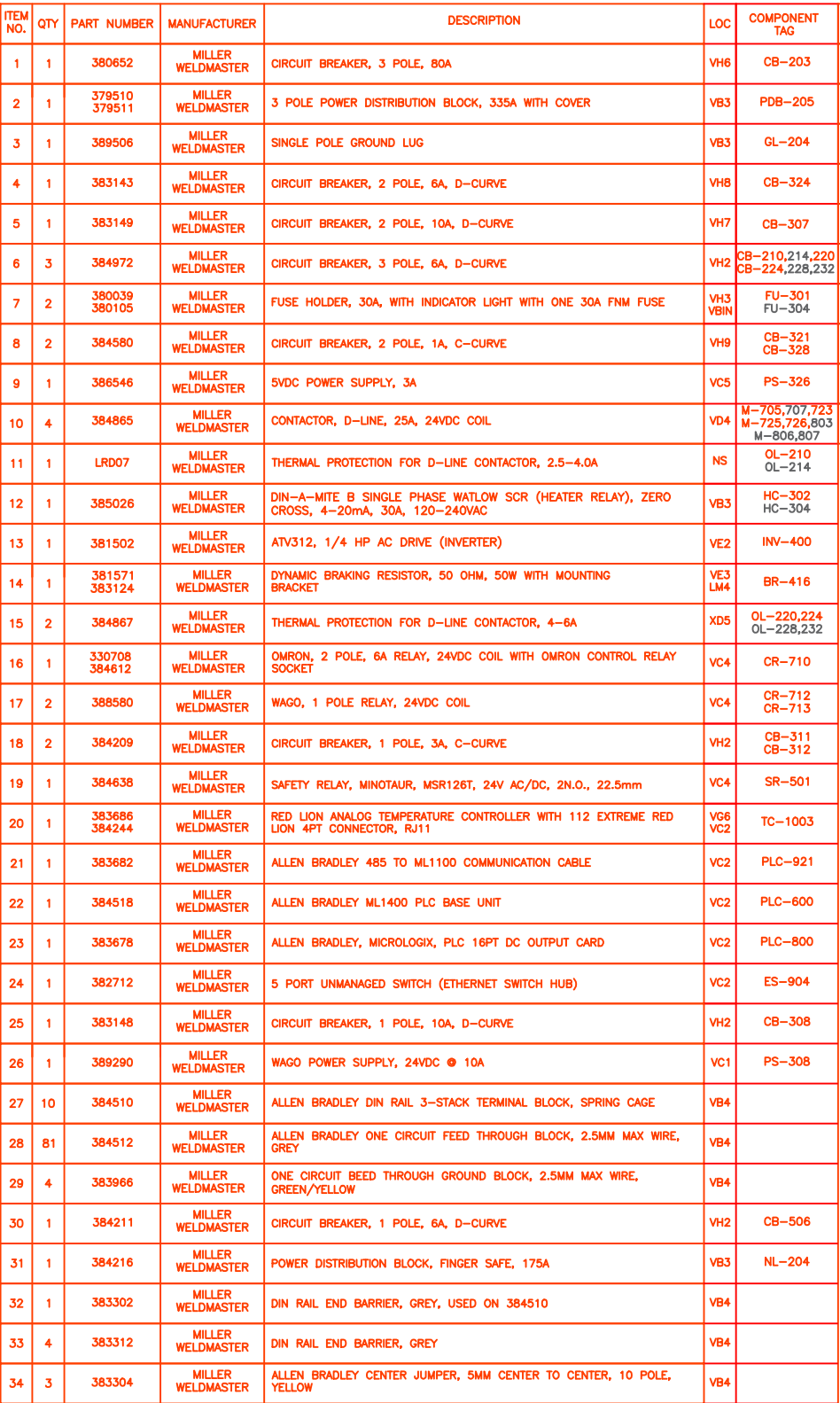
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2	1	379510 379511	MILLER WELDMASTER	3 POLE POWER DISTRIBUTION BLOCK, 335A WITH COVER	VB3	PDB-205	36	18	380219	MILLER WELDMASTER	35MM DIN RAIL END ANCHOR	VB4	
3	1	389506	MILLER WELDMASTER	SINGLE POLE GROUND LUG	VB3	GL-204	37	1	383341	MILLER WELDMASTER	112 EXTREME 18", CAT6 BLUE PATCH CABLE	VC3	
4	1	383143	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 6A, D-CURVE	VH8	CB-324	38	156"	384958	MILLER WELDMASTER	PANDUIT 1" X 3" WIRE WAY, GREY	WW	
5	1	383149	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 10A, D-CURVE	VH7	CB-307	39	156"	384952	MILLER WELDMASTER	PANDUIT 1" WIRE WAY COVER, GREY	VMI	
6	3	384972	MILLER WELDMASTER	CIRCUIT BREAKER, 3 POLE, 6A, D-CURVE	VH2	CB-210,214,220 CB-224,228,232	40	72"	384960	MILLER WELDMASTER	PANDUIT 2" X 3" WIRE WAY, GREY	WW	
7	2	380039 380105	MILLER WELDMASTER	FUSE HOLDER, 30A, WITH INDICATOR LIGHT WITH ONE 30A FNM FUSE	VH3 VBIN	FU-301 FU-304	41	72"	384954	MILLER WELDMASTER	PANDUIT 2" WIRE WAY COVER, GREY	VMI	
8	2	384580	MILLER WELDMASTER	CIRCUIT BREAKER, 2 POLE, 1A, C-CURVE	VH9	CB-321 CB-328	42	19"	384964	MILLER WELDMASTER	PANDUIT TYPE FL FLEXIBLE WIRING DUCT, .49" X .49" X 19.7" LONG (DINOSAUR DUCT)	WW4	
9	1	386546	MILLER WELDMASTER	5VDC POWER SUPPLY, 3A	VC5	PS-326							
10	4	384865	MILLER WELDMASTER	CONTACTOR, D-LINE, 25A, 24VDC COIL	VD4	M-705,707,723 M-725,726,803 M-805,807							
11	1	LRD07	MILLER WELDMASTER	THERMAL PROTECTION FOR D-LINE CONTACTOR, 2.5-4.0A	NS	OL-210 OL-214							
12	1	385026	MILLER WELDMASTER	DIN-A-MITE B SINGLE PHASE WATLOW SCR (HEATER RELAY), ZERO CROSS, 4-20mA, 30A, 120-240VAC	VB3	HC-302 HC-304							
13	1	381502	MILLER WELDMASTER	ATV312, 1/4 HP AC DRIVE (INVERTER)	VE2	INV-400							
14	1	381571 383124	MILLER WELDMASTER	DYNAMIC BRAKING RESISTOR, 50 OHM, 50W WITH MOUNTING BRACKET	VE3 LM4	BR-416							
15	2	384867	MILLER WELDMASTER	THERMAL PROTECTION FOR D-LINE CONTACTOR, 4-6A	XD5	OL-220,224 OL-228,232							
16	1	330708 384612	MILLER WELDMASTER	OMRON, 2 POLE, 6A RELAY, 24VDC COIL WITH OMRON CONTROL RELAY SOCKET	VC4	CR-710							
17	2	388580	MILLER WELDMASTER	WAGO, 1 POLE RELAY, 24VDC COIL	VC4	CR-712 CR-713							
18	2	384209	MILLER WELDMASTER	CIRCUIT BREAKER, 1 POLE, 3A, C-CURVE	VH2	CB-311 CB-312							
19	1	384638	MILLER WELDMASTER	SAFETY RELAY, MINOTAUR, MSR126T, 24V AC/DC, 2N.O., 22.5mm	VC4	SR-501							
20	1	383686 384244	MILLER WELDMASTER	RED LION ANALOG TEMPERATURE CONTROLLER WITH 112 EXTREME RED LION 4PT CONNECTOR, RJ11	VG6 VC2	TC-1003							
21	1	383682	MILLER WELDMASTER	ALLEN BRADLEY 485 TO ML1100 COMMUNICATION CABLE	VC2	PLC-921							
22	1	384518	MILLER WELDMASTER	ALLEN BRADLEY ML1400 PLC BASE UNIT	VC2	PLC-600							
23	1	383678	MILLER WELDMASTER	ALLEN BRADLEY, MICROLOGIX, PLC 16PT DC OUTPUT CARD	VC2	PLC-800							
24	1	382712	MILLER WELDMASTER	5 PORT UNMANAGED SWITCH (ETHERNET SWITCH HUB)	VC2	ES-904							
25	1	383148	MILLER WELDMASTER	CIRCUIT BREAKER, 1 POLE, 10A, D-CURVE	VH2	CB-308							
26	1	389290	MILLER WELDMASTER	WAGO POWER SUPPLY, 24VDC 10A	VC1	PS-308							
27	10	384510	MILLER WELDMASTER	ALLEN BRADLEY DIN RAIL 3-STACK TERMINAL BLOCK, SPRING CAGE	VB4								
28	81	384512	MILLER WELDMASTER	ALLEN BRADLEY ONE CIRCUIT FEED THROUGH BLOCK, 2.5MM MAX WIRE, GREY	VB4								
29	4	383966	MILLER WELDMASTER	ONE CIRCUIT BEED THROUGH GROUND BLOCK, 2.5MM MAX WIRE, GREEN/YELLOW	VB4								
30	1	384211	MILLER WELDMASTER	CIRCUIT BREAKER, 1 POLE, 6A, D-CURVE	VH2	CB-506							
31	1	384216	MILLER WELDMASTER	POWER DISTRIBUTION BLOCK, FINGER SAFE, 175A	VB3	NL-204							
32	1	383302	MILLER WELDMASTER	DIN RAIL END BARRIER, GREY, USED ON 384510	VB4								
33	4	383312	MILLER WELDMASTER	DIN RAIL END BARRIER, GREY	VB4								
34	3	383304	MILLER WELDMASTER	ALLEN BRADLEY CENTER JUMPER, 5MM CENTER TO CENTER, 10 POLE, YELLOW	VB4								

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ENGINEER	CUSTOMER	MILLER WELDMASTER
ETM	CUSTOMER	112 EXTREME X.XM
DRAWN BY	JOB NO	E13
CAL	XXXXX	112MCP PANEL
DATE	SERIAL NO	112EX-XXXX-XXXX
6/30/2016	112EX-XXXX-XXXX	
DWG NO	SHEET NO	REVISION
	13 OF 15	VER 530



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