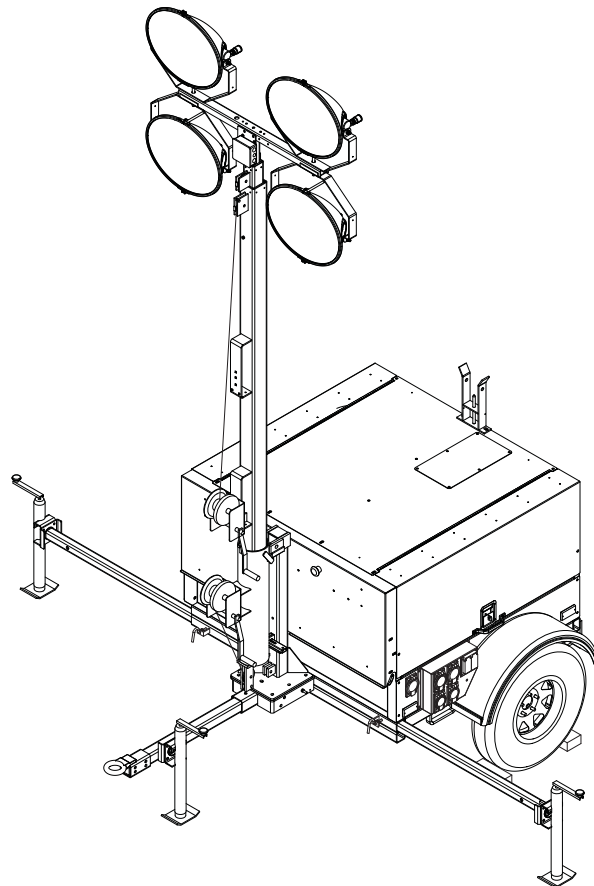




LIGHT TOWER
MLT5150M • MLT5200I



PARTS MANUAL

INTRODUCTION

Before servicing this machine, make sure the engine start switch is turned to off "O", the circuit breakers are open (off, "O"), and the negative (-) terminal on battery is disconnected. Attach a "DO NOT START" sign to the control panel. This will notify everyone that the unit is being serviced and will reduce the chance of someone inadvertently trying to start the unit.

▲ WARNING

Before operating or servicing this equipment, read and understand the Magnum Operating Manual which was included with the unit when shipped from the factory. Failure to do so increases the risk of injury to yourself or others.

MAGNUM POWER PRODUCTS LLC

215 Power Drive • Berlin, WI 54923

U.S.A.

Phone: 920-361-4442

FAX: 920-361-4416

Toll Free: 1-800-926-9768

www.m-p-llc.com

For technical or parts QUESTIONS, please contact Magnum Power Products' Customer Support or Technical Support team at 920-361-4442 or toll free at 1-800-926-9768. Please have your serial number available.

To ORDER SERVICE PARTS, please contact the dealer from which you purchased the unit, or call Magnum Power Products to locate a dealer in your area.

Engine Make: _____

Engine Serial Number: _____

Engine Model Number: _____

Generator Make: _____

Generator Model Number: _____

Generator Serial Number: _____

Unit Model Number: _____

Unit Serial Number: _____

▲ WARNING

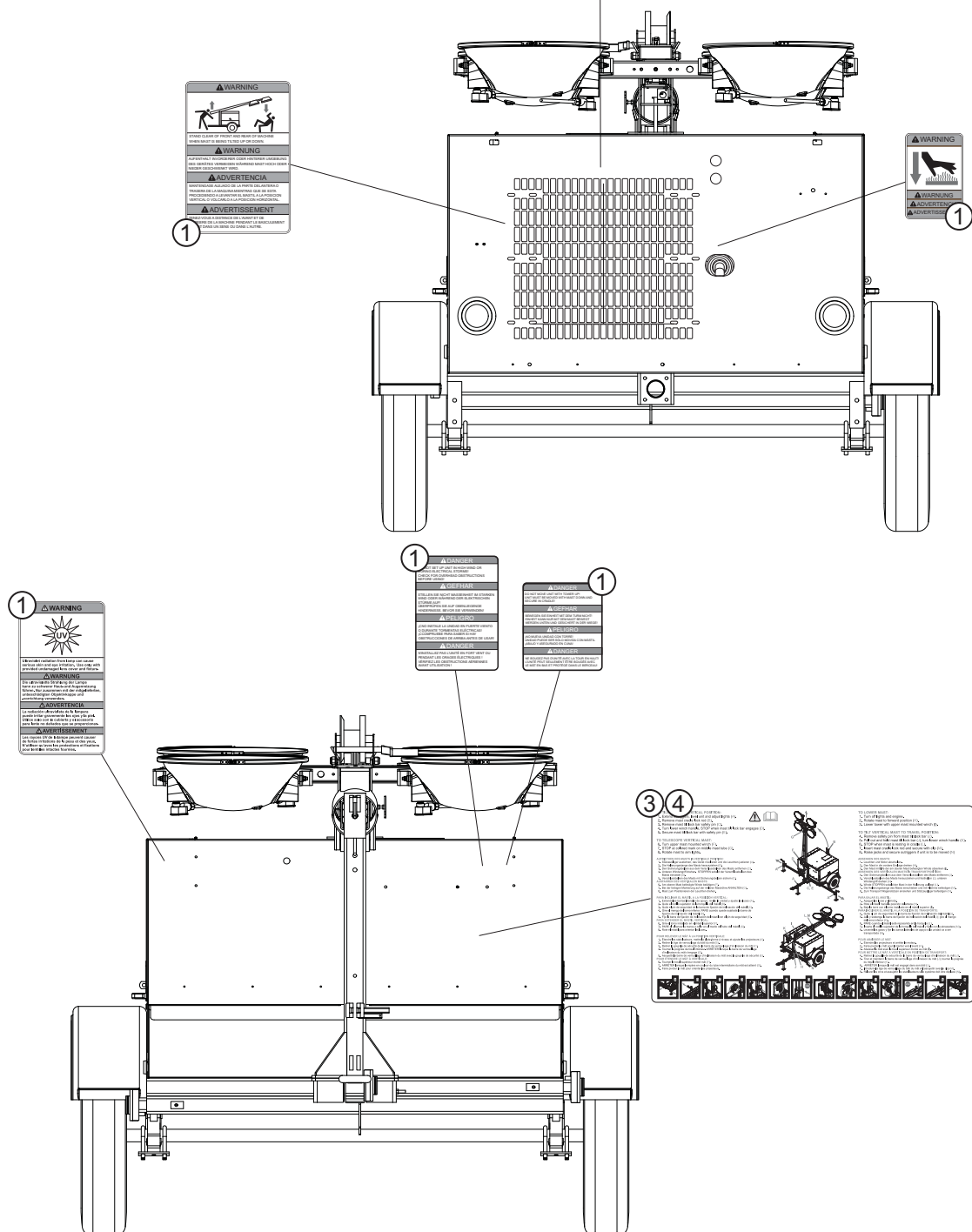
CALIFORNIA PROPOSITION 65 WARNING:

Diesel engine exhaust and some of its constituents are known to the state of California to cause cancer, birth defects and other reproductive harm.

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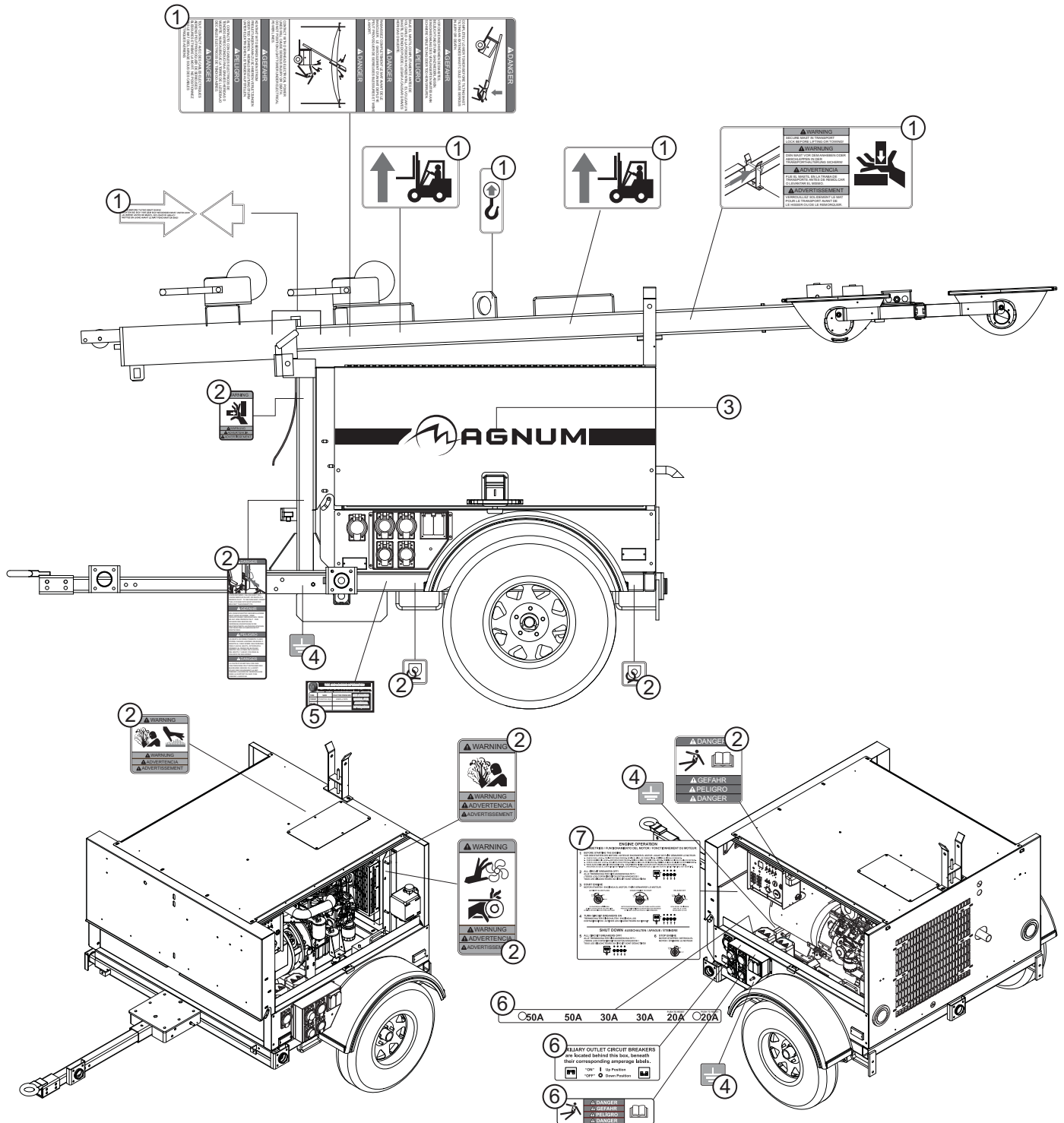
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UNIT DECALS



ITEM	PART	QTY	DESCRIPTION	NOTES
1	12141	1	Decal set, LT eng/safety 4-lang	
2	11275	1	Decal, Magnum logo w/ web - red vinyl	
3	10514	1	Decal, MLT set-up 5000 sq cabinet (MW)	For manual winch models
4	10584	1	Decal, MLT set-up 5000 sq cabinet (EW)	For electric winch models

UNIT DECALS

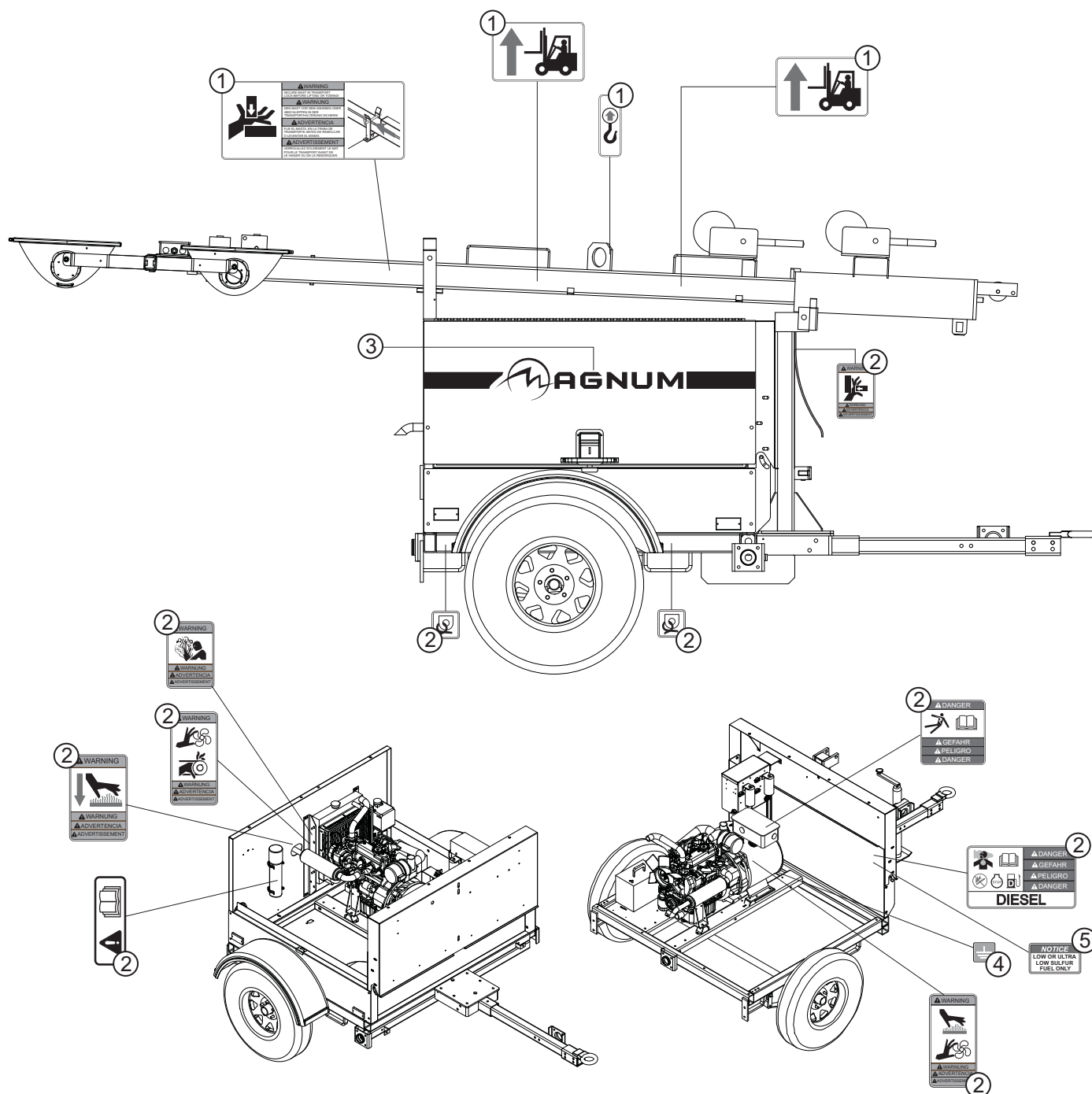


ITEM	PART	QTY	DESCRIPTION
1	12140	1	Decal set, common mast 4-lang
2	12141	1	Decal set, LT eng/safety 4-lang
3	16488	1	Decal, Magnum logo w/ red stripe
4	12142	3	Decal, ground
5	29000	1	Decal, tire load
6	10792	1	Decal, aux outlet breakers
7	10655	1	Decal, engine operation

NOTES

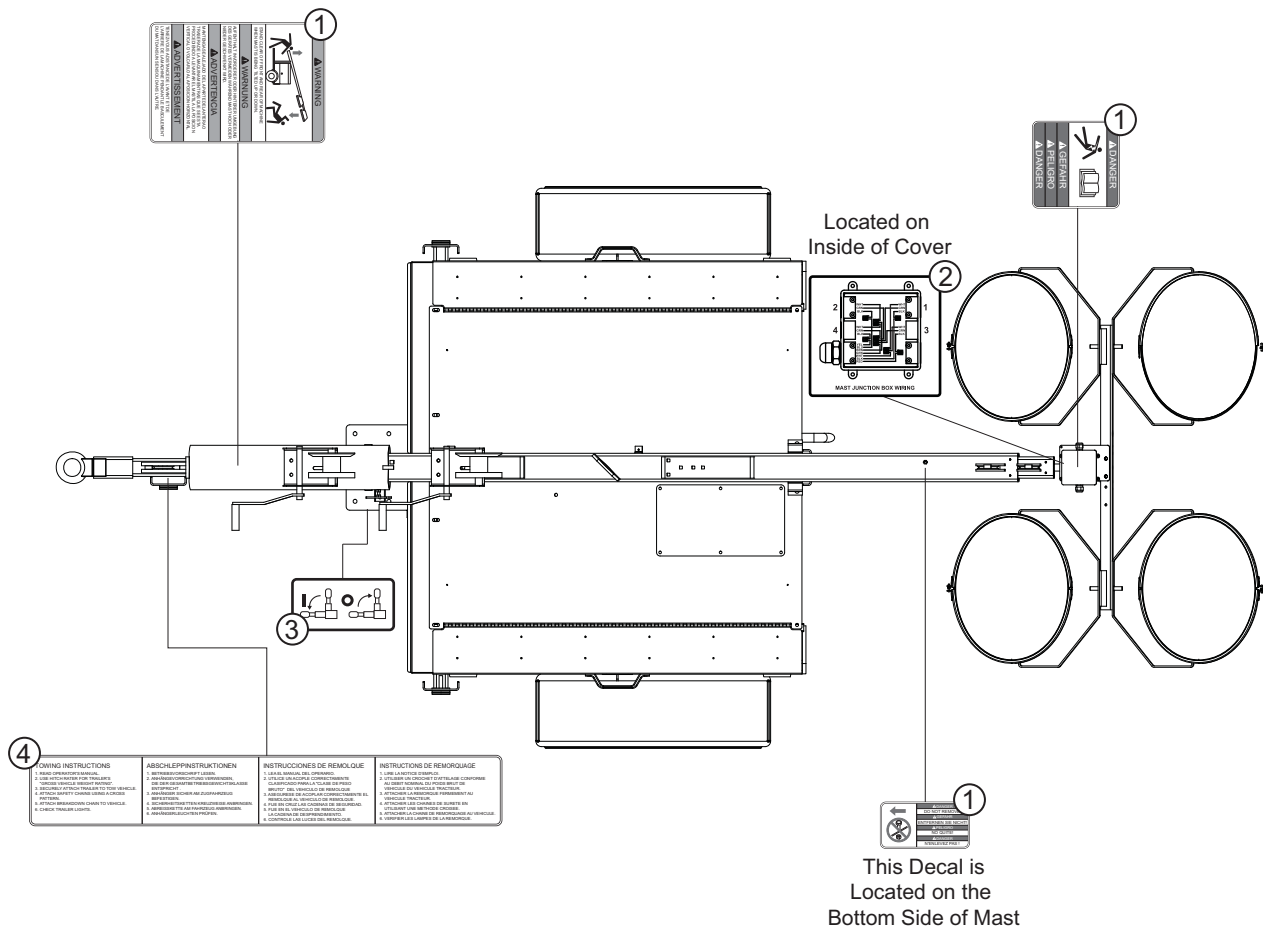
See page 19 for options

UNIT DECALS



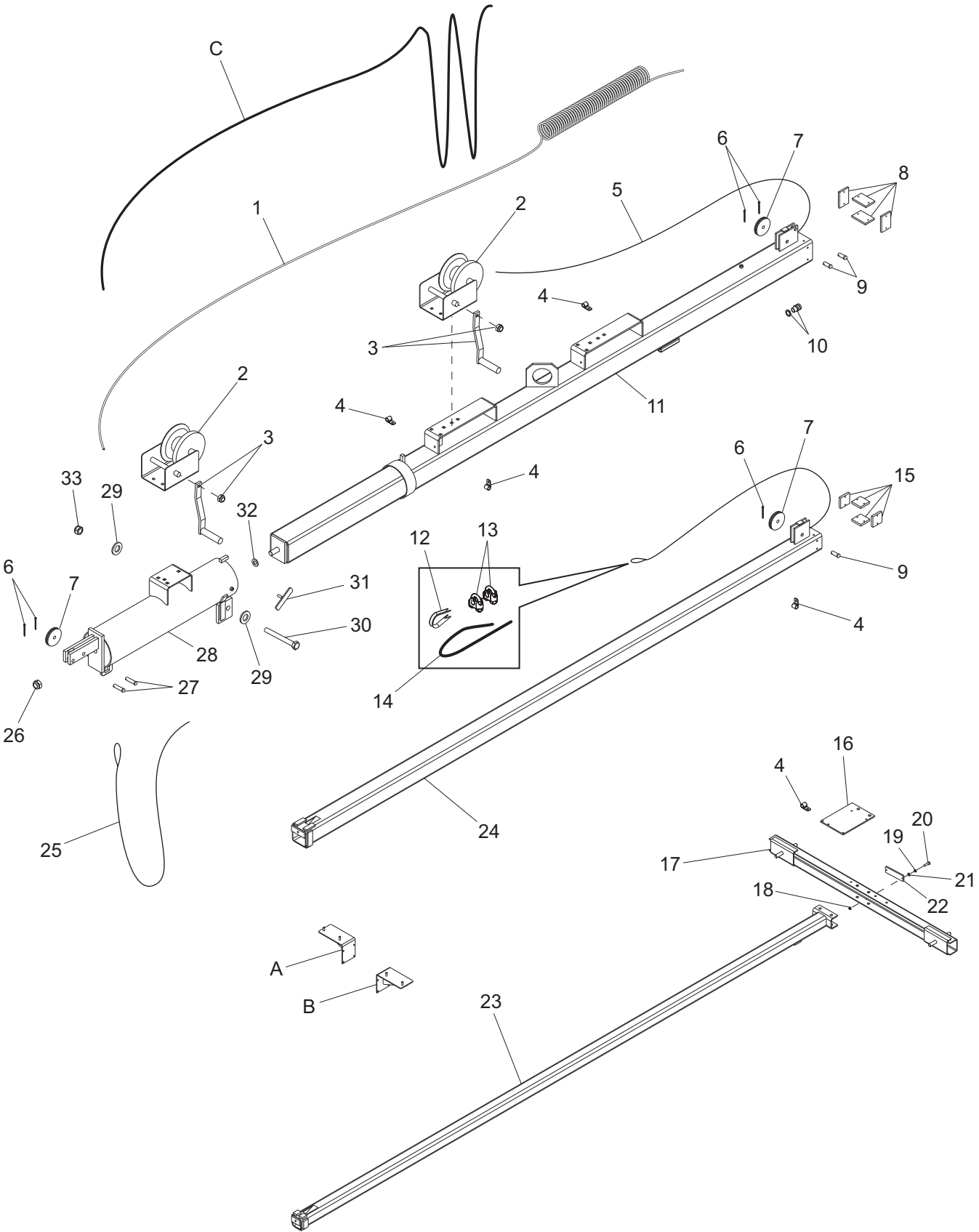
ITEM	PART	QTY	DESCRIPTION	NOTES
1	12140	1	Decal set, common mast 4-lang	
2	12141	1	Decal set, LT eng/safety 4-lang	
3	16488	1	Decal, Magnum logo w/ red stripe	
4	12142	1	Decal, ground	
5	28695	1	Decal, low or ultra low sulfur fuel only	

UNIT DECALS



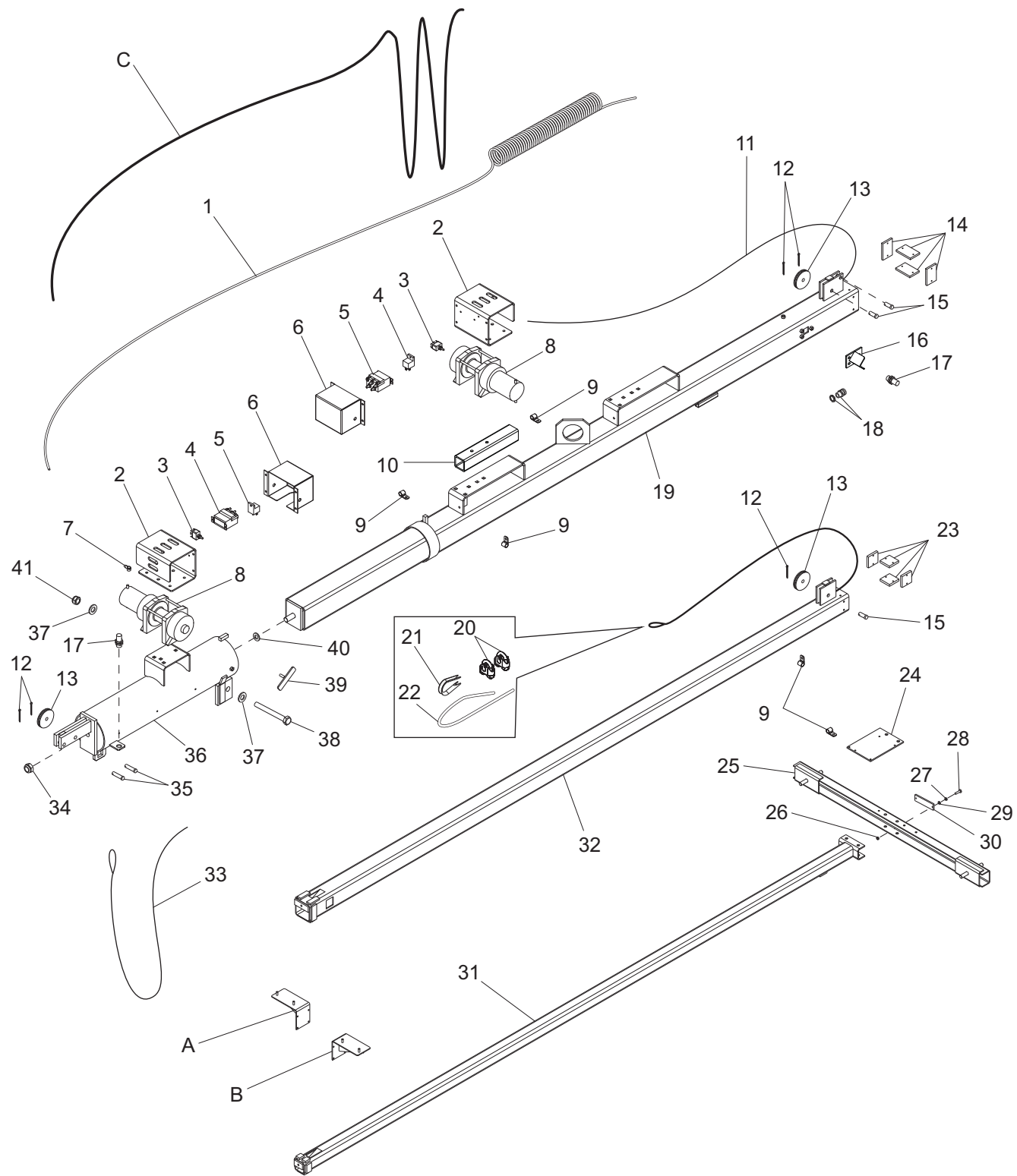
ITEM	PART	QTY	DESCRIPTION	NOTES
1	12140	1	Decal set, common mast 4-lang	
2	13614	1	Decal, mast junction box wiring - 4 light	
3	12313	1	Decal, LT parking brake (if equipped)	
4	12141	1	Decal set, LT eng/safety 4-lang	

MANUAL WINCH MAST ASSEMBLY



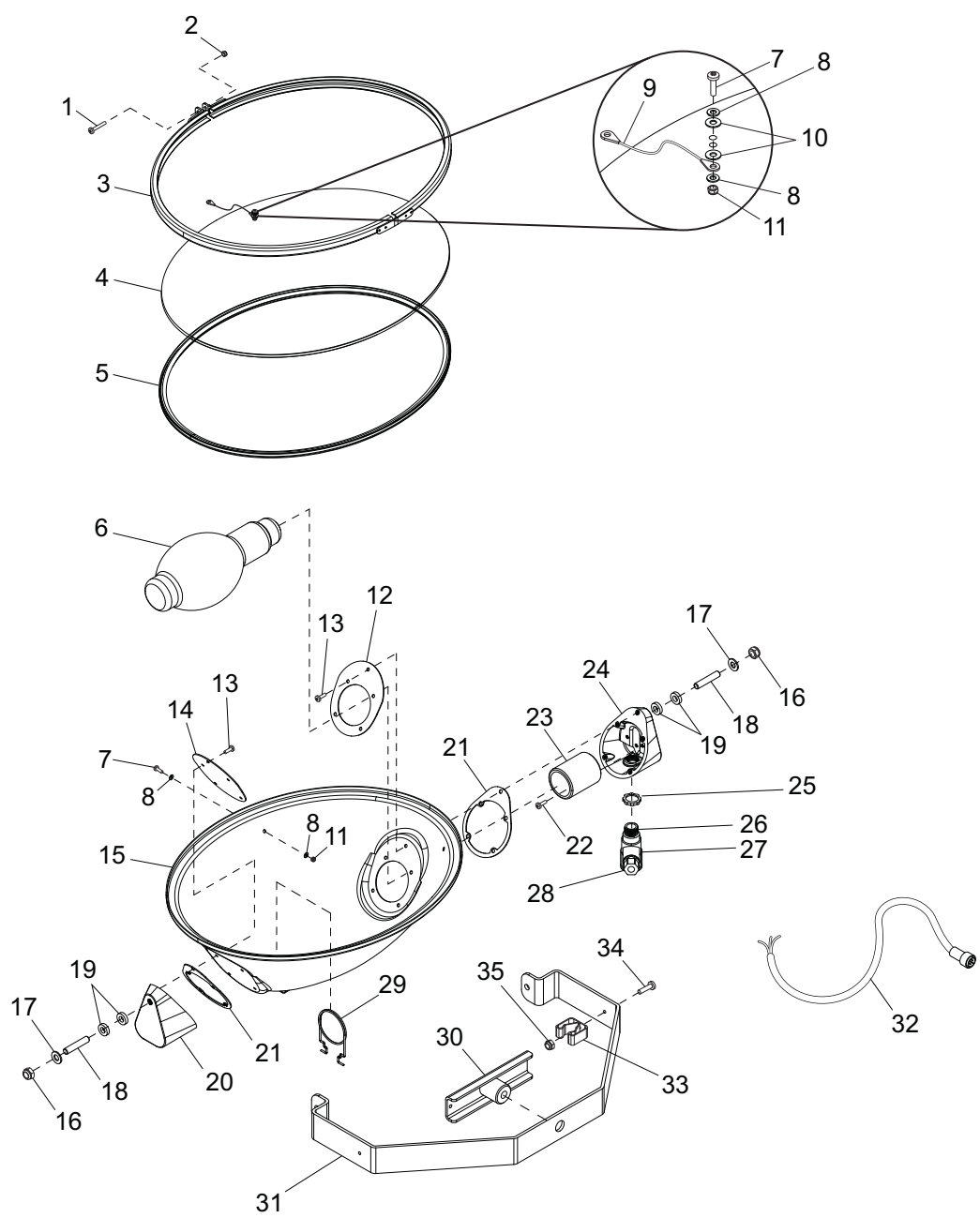
ITEM	PART	QTY	DESCRIPTION	NOTES
1	11954	1	Coil cord, mast	
2	16600	2	Winch, manual - 1500 lb, no handle	
3	15623	2	Winch handle, 9" long with nut	
4	16143	5	Clamp, tubing .500	
5	15006	1	Cable, .188 in. x 27 ft. w/ball swedge	
6	15380	4	Pin, cotter - .125 x 1.250	
7	14262	2	Sheave, 3 in.	
8	15014	4	Shim, 2 x 3 x .281 GSM	
9	15015	3	Pin, clevis .500 x 1.25	
10	14871	1	Strain relief - .50 NPT, .50 cord, water tight	
11	11933B	1	Weldment, mast - 4.00	
12	15003	1	Thimble, cable	
13	15002	2	Clip, wire rope - .188	
14	14151	1	Cable - .188" x 11' w/ball swedge	
15	15013	4	Shim, 2 x 2 x .344 GSM	
16	12095B	1	Bracket, junction box	
17	13527B	1	Weldment, mast crossbar	
18	14231	2	Nut, 10-32 hx	
19	60252	2	Washer, split lock #10	
20	60397	2	Screw, 10-32x1.000 pan hd phil	
21	60237	2	Washer, flat #10	
22	15829	1	Reflector, red	
23	16257B	1	Weldment, mast - 2.00	
24	11934B	1	Weldment, mast - 3.00	
25	14798	1	Cable, .188 in. x 16 ft. w/teardrop	
26	60308	1	Nut, nylock .750-10 nylock, SS	
27	14234	2	Pin, clevis .500 x 2.00	
28	11902B	1	Weldment, mast tube - EW	
29	60744	2	Washer, .750 flat 1.250/.060 delrin	
30	15292	1	Screw, .750-10 x 6.50 SS	
31	11649Z	1	Weldment, t-bolt	
32	60247	1	Washer, flat .750	
33	60584	1	Nut, nylock .750-10 G5 yellow zinc	
A	13869B	2	Weldment, light storage - R.H. oval lt	Option
B	13870B	2	Weldment, light storage - L.H. oval lt	Option
C	15612	33ft.	Cable, 16-7 cold mast drape	Option

ELECTRIC WINCH MAST ASSEMBLY



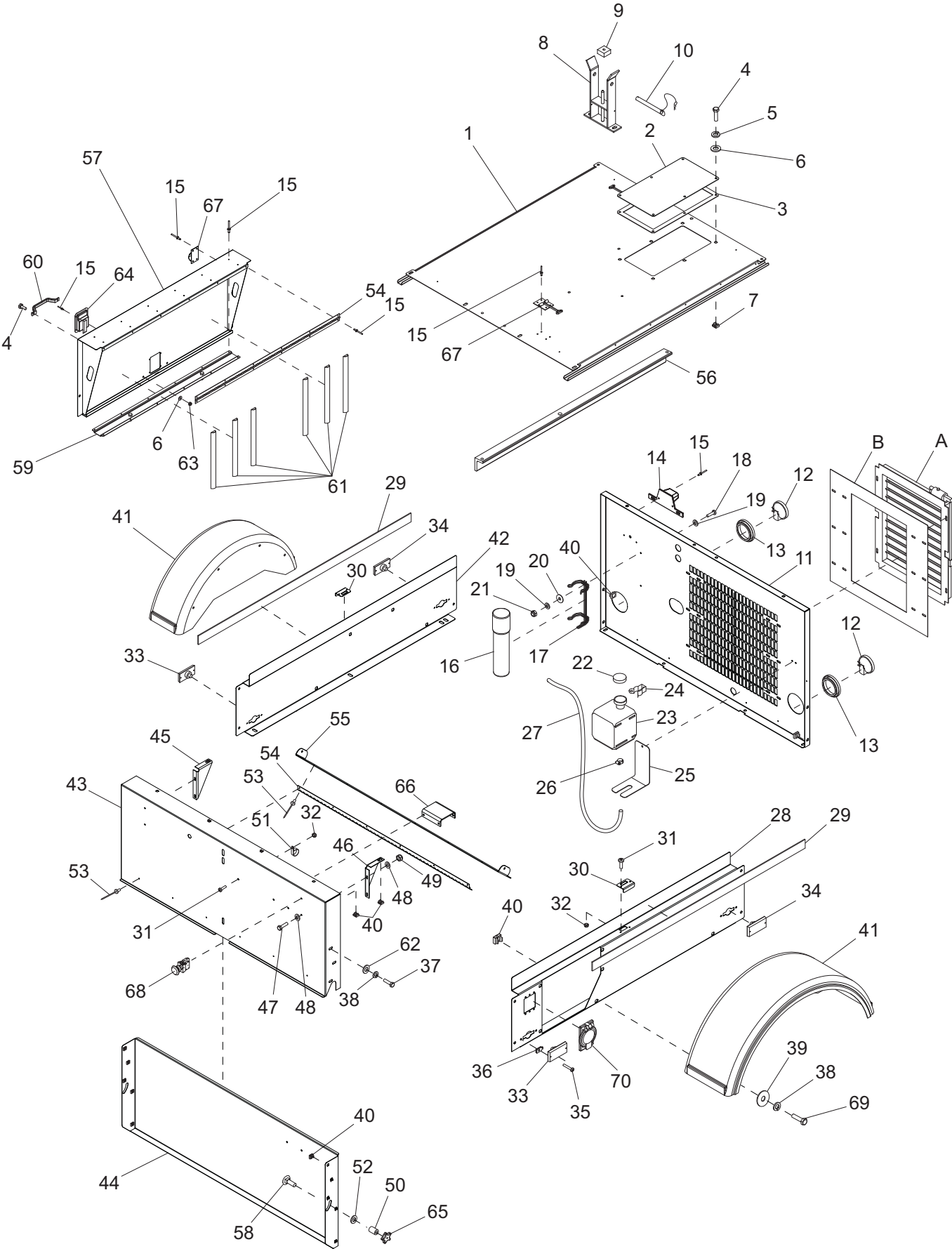
ITEM	PART	QTY	DESCRIPTION	NOTES
1	11954	1	Coil cord, mast	
2	12872B	2	Bracket, winch mounting	
3	65707	2	Switch, toggle - SPDT spring	
4	65049	2	Relay, 12V 30/40A N.O. w/diode	
5	11293	2	Contactor, electric winch - warn	
6	12875B	2	Cover, winch contactor	
7	12922	4	Boot, battery cable red	
8	12874	2	Winch, electric - 770LB hoist	
9	16143	2	Clamp, tubing .500	
10	11967B	1	Tube, electric winch mount	
11	15006	1	Cable, .188 in. x 27 ft. w/ball swedge	
12	15380	5	Pin, cotter - .125x1.250	
13	14262	3	Sheave, 3 in.	
14	15014	4	Shim, 2 x 3 x .281 GSM	
15	15015	3	Pin, clevis .500 x 1.25	
16	13796B	1	Weldment, prox sensor brkt	
17	65511	2	Sensor, proximity	
18	14871	1	Strain relief- .50 NPT, .50 cord, water tight	
19	12085B	1	Weldment, 4.00 mast - EW	
20	15002	2	Clip, wire rope - .188	
21	15003	1	Thimble, cable - .188	
22	14151	1	Cable - .188" x 11' w/ball swedge	
23	15013	4	Shim, 2 x 2 x .344 GSM	
24	12095B	1	Bracket, junction box	
25	13527B	1	Weldment, mast crossbar	
26	14231	2	Nut, 10-32 hx	
27	60252	2	Washer, split lock #10	
28	60397	2	Screw, 10-32x1.000 pan hd phil	
29	60237	2	Washer, flat #10	
30	15829	1	Reflector, red	
31	16257B	1	Weldment, mast - 2.00	
32	11934B	1	Weldment, mast - 3.00	
33	14798	1	Cable, .188 in. x 16 ft. w/teardrop	
34	60308	1	Nut, nylock .750-10 nylock SS	
35	14234	2	Pin, clevis .500 x 2.00	
36	12876B	1	Weldment, mast tube - EW	
37	60744	2	Washer, .750 flat 1.250/.060 delrin	
38	15292	1	Screw, .750-10 x 6.50, SS	
39	11649Z	1	Weldment, t-bolt	
40	60247	1	Washer, flat .750	
41	60584	1	Nut, nylock .750-10 G5 yellow zinc	
A	13869B	2	Weldment, light storage - R.H. oval lt	Option
B	13870B	2	Weldment, light storage - L.H. oval lt	Option
C	15612	33ft.	Cable, 16-7 cold mast drape	Option

OVAL LIGHT ASSEMBLY



ITEM	PART	QTY	DESCRIPTION	NOTES
1	60304	1	Screw, M5 x 25 pan hd phillips	
2	60447	1	Nut, M5 nylock, SS	
3	13367	1	Assembly, aluminum ring	
4	13369	1	Lens, glass oval	
5	13373	1	Gasket, lens oval	
6	11391	1	Bulb, 1000W MH short length	
7	13399	2	Screw, M4 x 18 pan hd phillips	
8	60067	4	Washer, #10 flat .435/.060, SS	
9	13370	1	Assembly, tether	
10	13372	2	Washer, #4 nylon	
11	60051	2	Nut, M4 nylock	
12	13376	1	Bracket, socket end plate	
13	13388	10	Screw, M5 x 12 slotted hex w/flange	
14	13377	1	Bracket, end plate	
15	13366	1	Assembly, housing	
16	60307	2	Nut, 500-13 nyk G5 ZC	
17	60309	2	Washer, .500 flat 1.060/.090 ZC	
18	13392	2	Stud, trunnion	
19	13390	4	Washer, .500 nylon	For part number 13392
20	13374	1	Support, housing/trunnion	
21	13378	2	Gasket, silicone	
22	13393	2	Screw, M5 x 12 phillips green	
23	13381	1	Socket, bulb	
24	13375	1	Support, housing/trunnion	
25	15861	1	Nut, special, .500 NPT lock	
26	13386	1	Fitting, nipple	
27	13387	1	Connector, weather tight	
28	15864	1	Strain relief, .50 NPT watertight .270/.464 ID	
29	13892	1	Support, bulb - oval light	
30	13403	1	Handle, T - oval light (wing nut)	
31	13368	1	Trunnion, oval light	
32	13383	1	Cord, power quick disconnect	
33	19041	1	Clip, spring holder	
34	60398	1	Screw, 10-32x.500 pan phil, SS	
35	60061	1	Nut, 10-32 nyk G5	
--	13601	4	Assy, light fixture/quick disconnect cord clip	

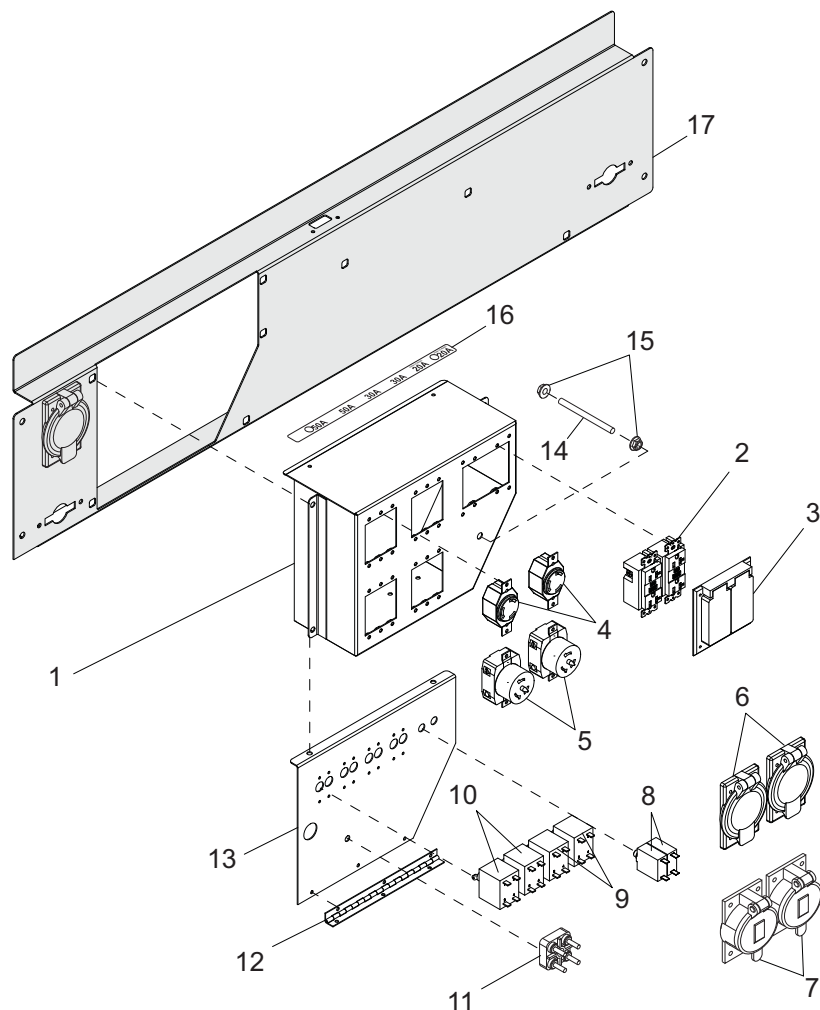
ENCLOSURE ASSEMBLY



ITEM	PART	QTY	DESCRIPTION	NOTES
1	13643W	1	Panel, top - 5000	
2	25333W	1	Panel, back access	
3	12195	1	Gasket, radiator access plate	
4	60507	10	Screw, .312-18x1.000 std hex, SS	
5	60701	6	Washer, .312 split lock, SS	
6	60340	10	Washer, .312 flat .875/.040, SS	
7	15425	6	Nut, .312-18 cage	
8	12344ZN	1	Weldment, cradle - common mast	
9	11935	1	Pad, rubber - 2.00 x 2.00 x 1.00	
10	16099	1	Assy, cradle pin	
11	13635W	1	Panel, rear	
12	10220	2	Light, rear tail/turn, round, no grommet	
13	10221	2	Grommet, rear light, rubber 4.5"	
14	10223	1	Assy, license plate light/holder	
15	60423	62	Rivet, .188 dia x .250 to .375 grip	
16	11121	1	Tube, black manual holder, 14"	
17	11222	1	Bracket, manual holder	
18	60540	2	Screw, 10-24x.750 pan phil, SS	
19	60067	4	Washer, #10 flat .435/.060, SS	
20	60089	2	Washer, .265 fndr 1.250/.060	
21	60457	2	Nut, 10-24 nylnk G5	
22	19714	1	Cap, overflow bottle	
23	20287	1	Jug, overflow 2 qt (.5 gal)	
24	19726	1	Clamp, overflow bottle	
25	22419B	1	Bracket, overflow jug .5 gal-black	
26	60777	1	Clamp, hose - .312 crimp style	
27	16282	1	Hose - .312 x 42.00	
28	10776W	1	Panel, side - LH w/recep opening	
29	50197	97.5"	Weatherstripping - .06 x 1.00	2 pieces cut to 48.75" each
30	13291	2	Plate, striker	
31	60398	5	Screw, 10-32x.500 pan phil, SS	
32	60061	5	Nut, 10-32 nylnk	
33	65660	2	Lens, red - light, clearance marker	
34	65663	2	Lens, amber - light, clearance marker	
35	60694	8	Screw, 8-32x.750 pan phil, SS	
36	60730	8	Nut, 8-32 uclip	
37	60690	6	Screw, .375-16x1.000 std hex, SS	
38	60703	14	Washer, .375 split lock, SS	
39	60729	8	Washer, .375 fndr 1.500/.090	
40	60657	24	Nut, .375-16 cage G5 for 12 ga	
41	11381	2	Fender, plastic - single wall black 14" tire	
42	13637W	1	Panel, side - rh	
43	13651W	1	Panel, front - 5000 upper	
44	13652W	1	Panel, front - 5000 lower	
45	13706B	1	Bracket, front support - rh	
46	13705B	1	Bracket, front support - lh	
47	60684	4	Screw, .250-20x.875 std hex, SS	
48	60696	8	Washer, .250 flat .625/.050, SS	
49	60144	4	Nut, .250-20 nylnk G5	
50	41235B	2	Spacer - .75 OD x .375 ID x 1.00 long	
51	16143	1	Clamp, tubing - .500	
52	60452	2	Washer, .313 flat 1.125/1.000, SS	
53	60268	12	Rivet, .188 dia x .126 to .250 grip, SS	
54	16598	3	Hinge, door - .188 pin, 48.5 long	
55	13708W	1	Panel, air inlet	
56	13704B	1	Angle, roof support	
57	13295W	2	Door weldment	

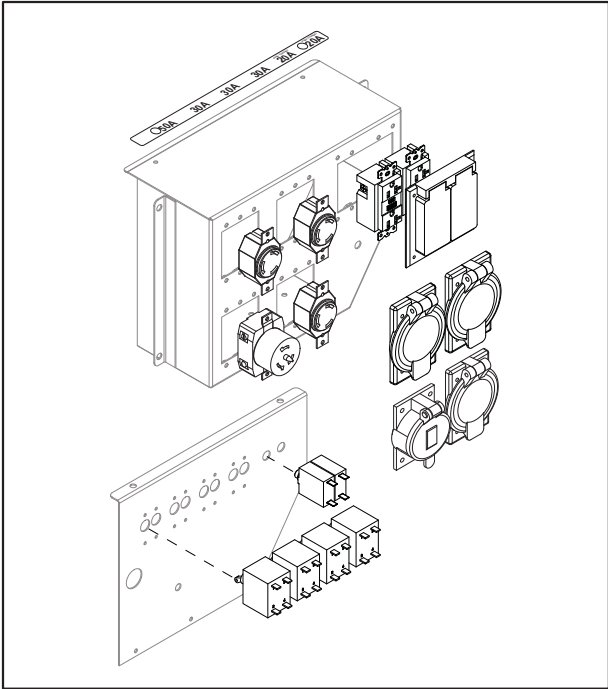
ITEM	PART	QTY	DESCRIPTION	NOTES
58	62038	2	Screw, .312-18x2.00 carr sqr G5	
59	13297B	2	Light storage channel weldment	
60	26288	2	Handle, door access - black	
61	50354	216"	Seal, rubber - bubble type (.750)	12 pieces cut to 18" each
62	60698	6	Washer, .375 flat .875/.040, SS	
63	60303	4	Nut, .312-18 nylnk	
64	15123	2	Latch, paddle, with 7lb spring	
65	62028	2	Knob, plastic, .312-18 female thru hole	
66	13689B	1	Bracket, control box	
67	12605	2	Door latch SS - T style	
68	22550	1	Switch, e-stop	
69	60295	8	Screw, .375-16x.750 std hex, SS	
70	65460	1	Cover, receptacle - 20/30A twist lock	
A	12353	1	Thermostatically controlled shutters	Option MLT5200I
B	17713W	1	Adapter, shutter	Option MLT5200I
--	12641	2	Hose, thermo shutters .625x39.00	Option MLT5200I (not shown)
--	19030	2	Fitting, bushing - 1.50 OD x 1.125 ID	Option MLT5200I (not shown)
--	25931	2	Fitting, straight - .375NPTx.625 barb	Option MLT5200I (not shown)
--	17798W	1	Panel, back access	Option: containment (not shown)
--	17799W	1	Panel, top - 5000	Option: containment (not shown)

RECEPTACLE PANEL ASSEMBLY

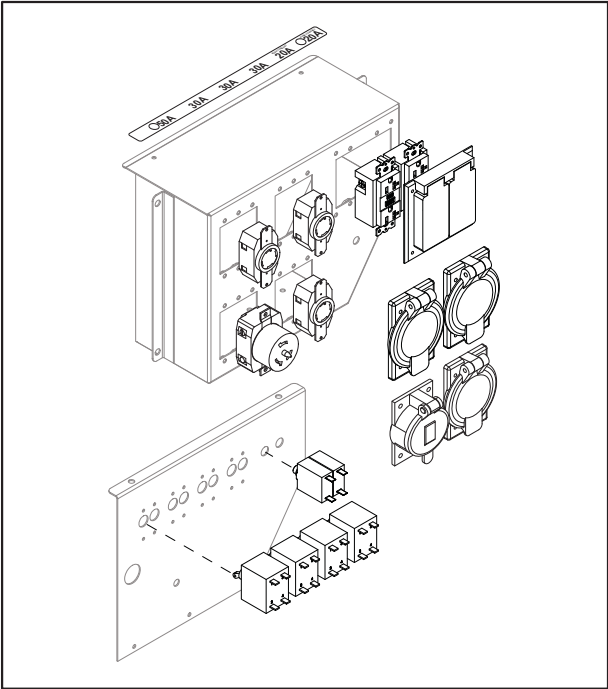


ITEM	PART	QTY	DESCRIPTION	NOTES
1	10783W	1	Weldment, receptacle box	
2	14130	2	Receptacle, 120V/20A GFI (5-20R)	
3	15849	1	Cover, receptacle - 20A GFCI dual	
4	14137	2	Receptacle, 240V/30A twist (L6-30R)	
5	18089	2	Receptacle, 240V/50A twist lock	
6	65460	2	Cover, receptacle - 20/30A twist lock	
7	65467	2	Cover, receptacle - 50A twist (deep)	
8	65849	2	Breaker, 20A, 120V, 1-pole, push	
9	66097	2	Breaker, 30A, 250V, 2 pole, screw	
10	65492	2	Breaker, 50A, 250V, 2 pole, screw	
11	65519	1	Block, terminal - 4 pole stud type	
12	10784	1	Hinge, piano - 9.00	
13	10771W	1	Panel, outlet	
14	18992	1	Stud, ground	
15	60020	2	Nut, M8-1.25 sflg G8.8 ZC lock	
16	10792	1	Decal, outlet breakers 50,50,30,30,20,20	
--	10393	1	Receptacle panel (2x5-20R, 2xL6-30R)	Items 1-16
17	Page 14	1	Panel, side - LH w/recep opening	

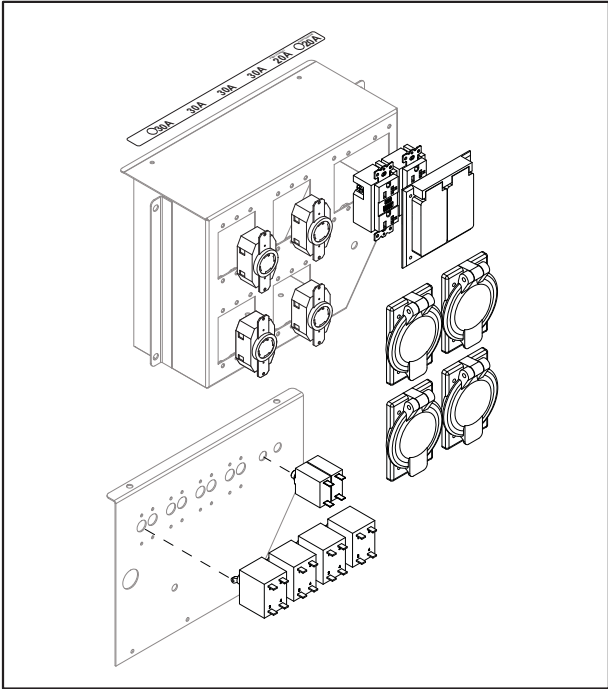
RECEPTACLE PANEL OPTIONS



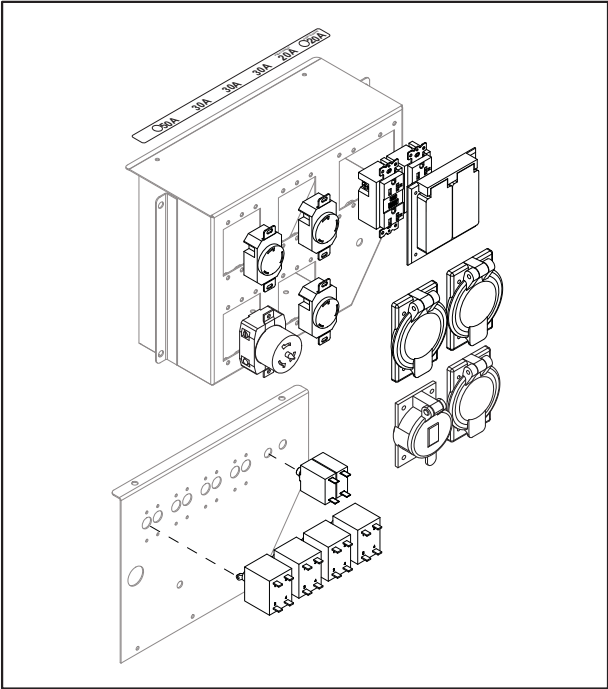
PART NUMBER 10394
Receptacle Panel (2x5-20R, 3xL6-30R, 1x50A)



PART NUMBER 10395
Receptacle Panel (2x5-20R, 3xL14-30R, 1x50A)

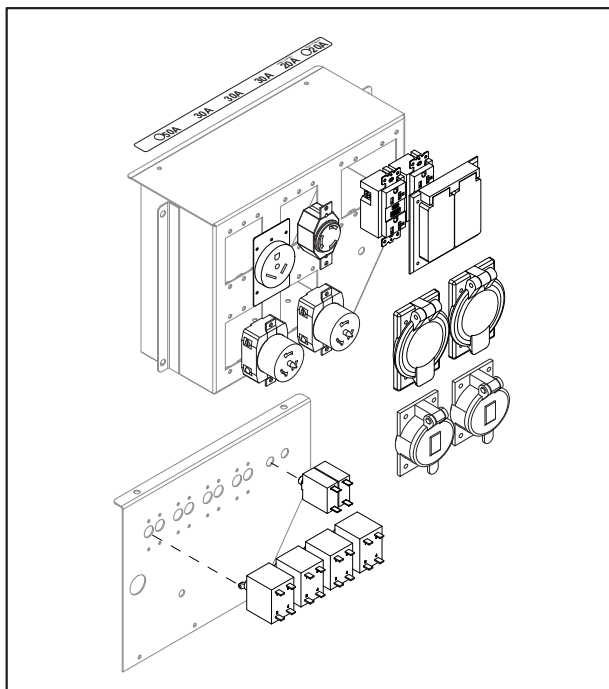


PART NUMBER 10396
Receptacle Panel (2x5-20R, 4xL14-30R)

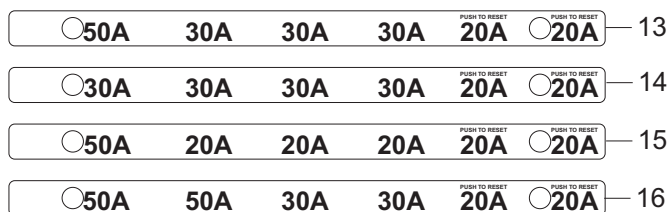
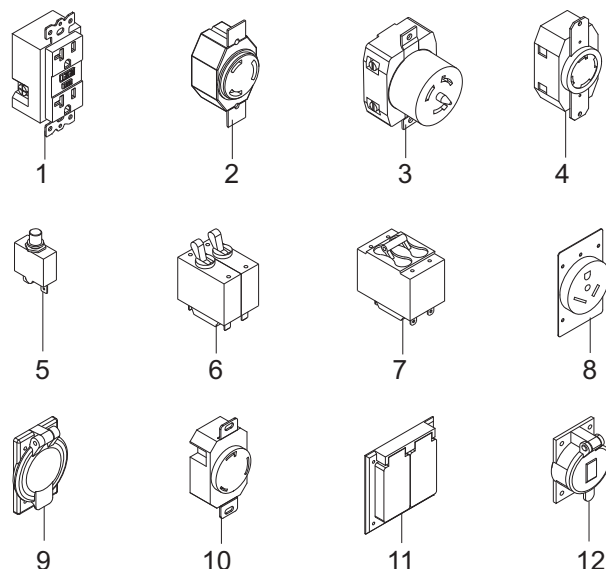


PART NUMBER 10397
Receptacle Panel (2x5-20R, 3xL6-20R, 1x50A)

RECEPTACLE PANEL OPTIONS, CONTINUED

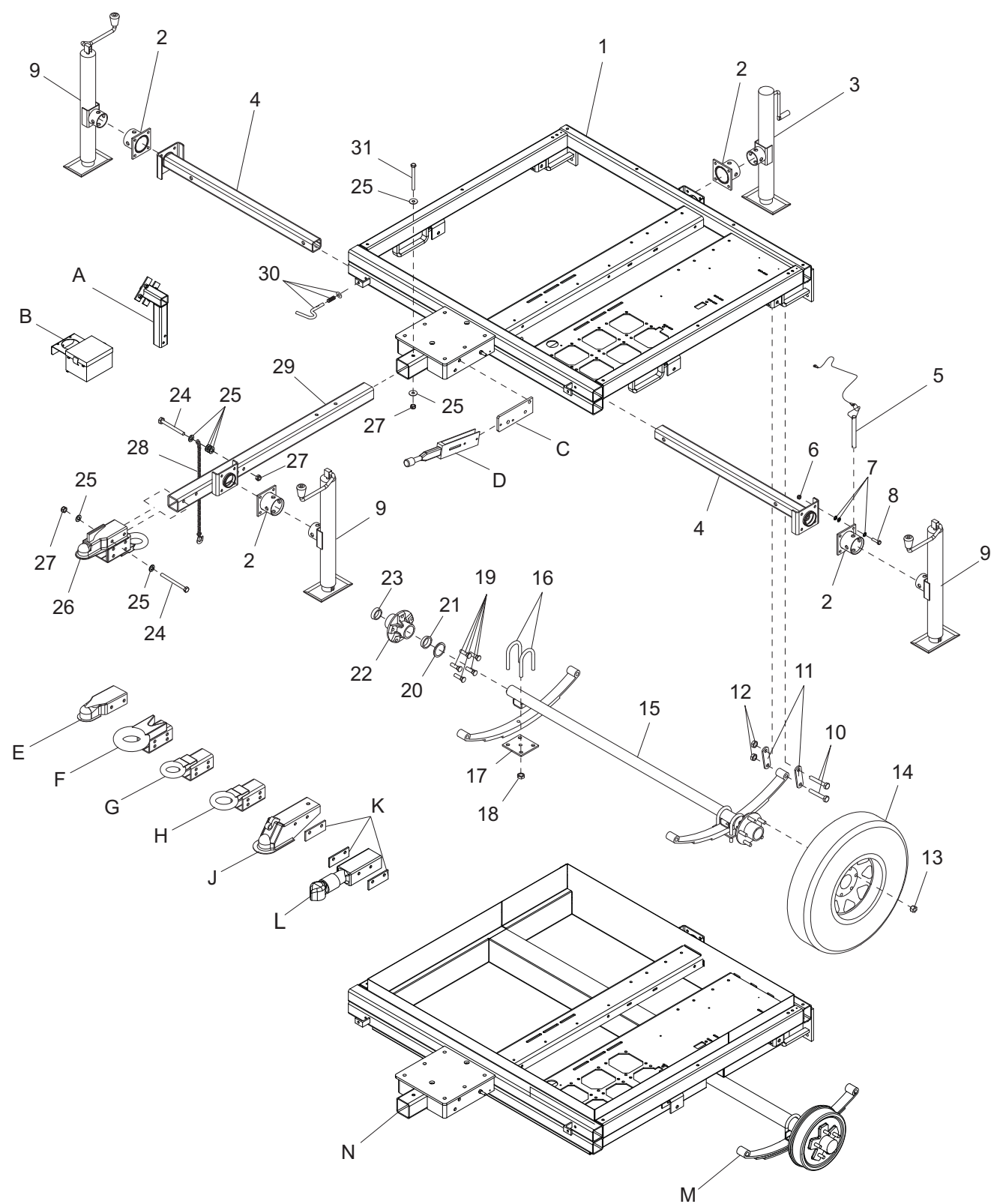


PART NUMBER 10398
 Receptacle Panel
 (2x5-20R, 1xTT-30R, 1xL6-30R, 2x50A)



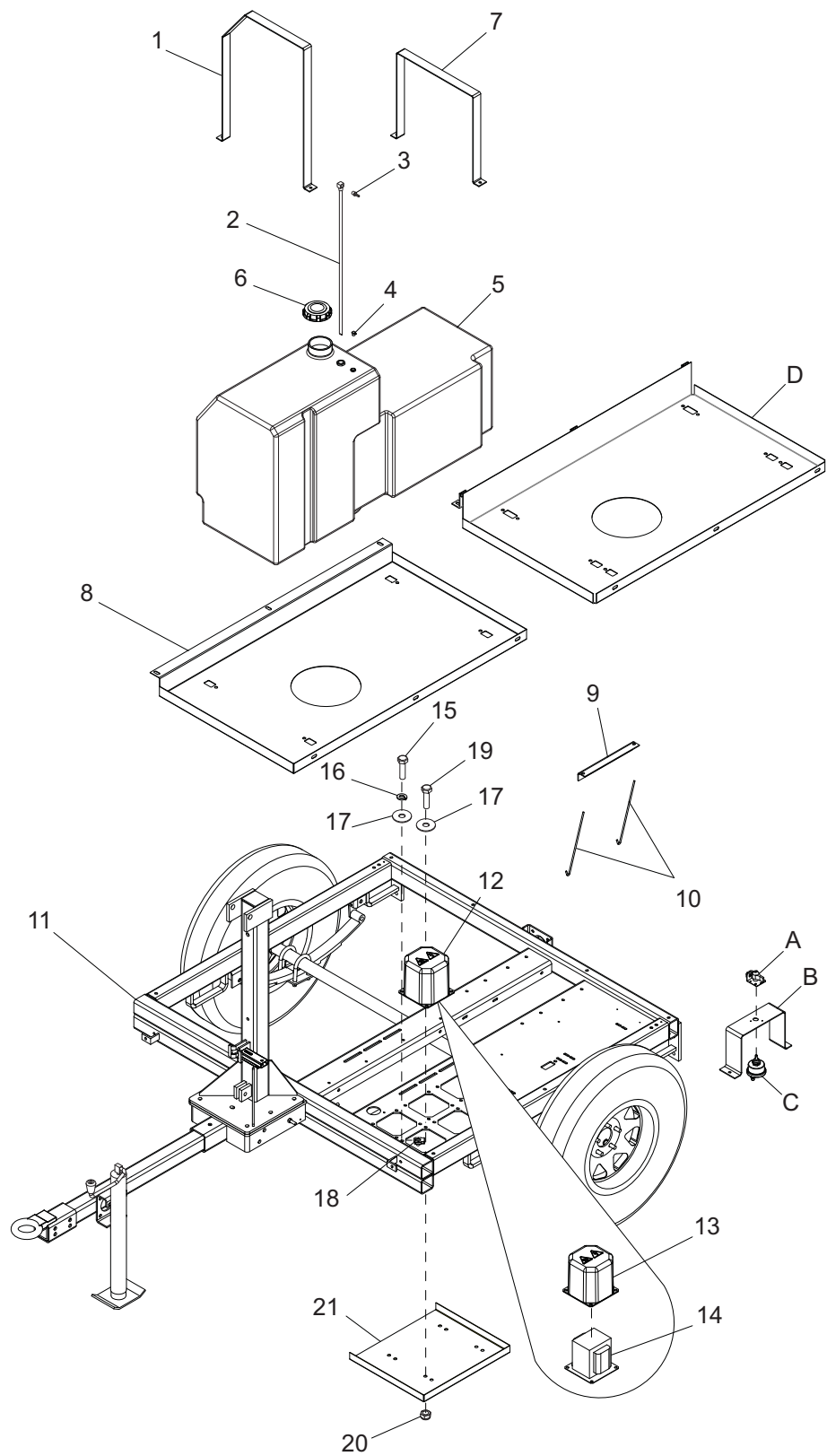
ITEM	PART	QTY	DESCRIPTION	NOTES
1	14130	2	Receptacle, 120V/20A GFI (5-20R)	
2	14137	-	Receptacle, 240V/30A twist (L6-30R)	
3	18089	-	Receptacle, 240V/50A twist lock	
4	65488	-	Receptacle, 240V/30A twist (L14-30R)	
5	65849	2	Breaker, 20A, 120V, 1-pole, push	
6	66097	-	Breaker, 30A, 250V, 2 pole, (JA) screw	
7	65492	-	Breaker, 50A, 250V, 2 pole, (JA) screw	
8	65489	-	Receptacle, 120V/30A (TT-30R)(RV)	
9	65460	-	Cover, receptacle 20/30A twist lock	
10	15933	-	Receptacle, 240V/20A twist (L6-20R)	
11	15849	-	Cover, receptacle - 20A GFCI dual	
12	65467	-	Cover, receptacle - 50A twist (deep)	
13	17638	1	Decal, aux breakers - 50,30,30,30,20,20	
14	17639	1	Decal, aux breakers - 30,30,30,30,20,20	
15	17640	1	Decal, aux breakers - 50,20,20,20,20,20	
16	10792	1	Decal, aux breakers - 50,50,30,30,20,20	

FRAME ASSEMBLY



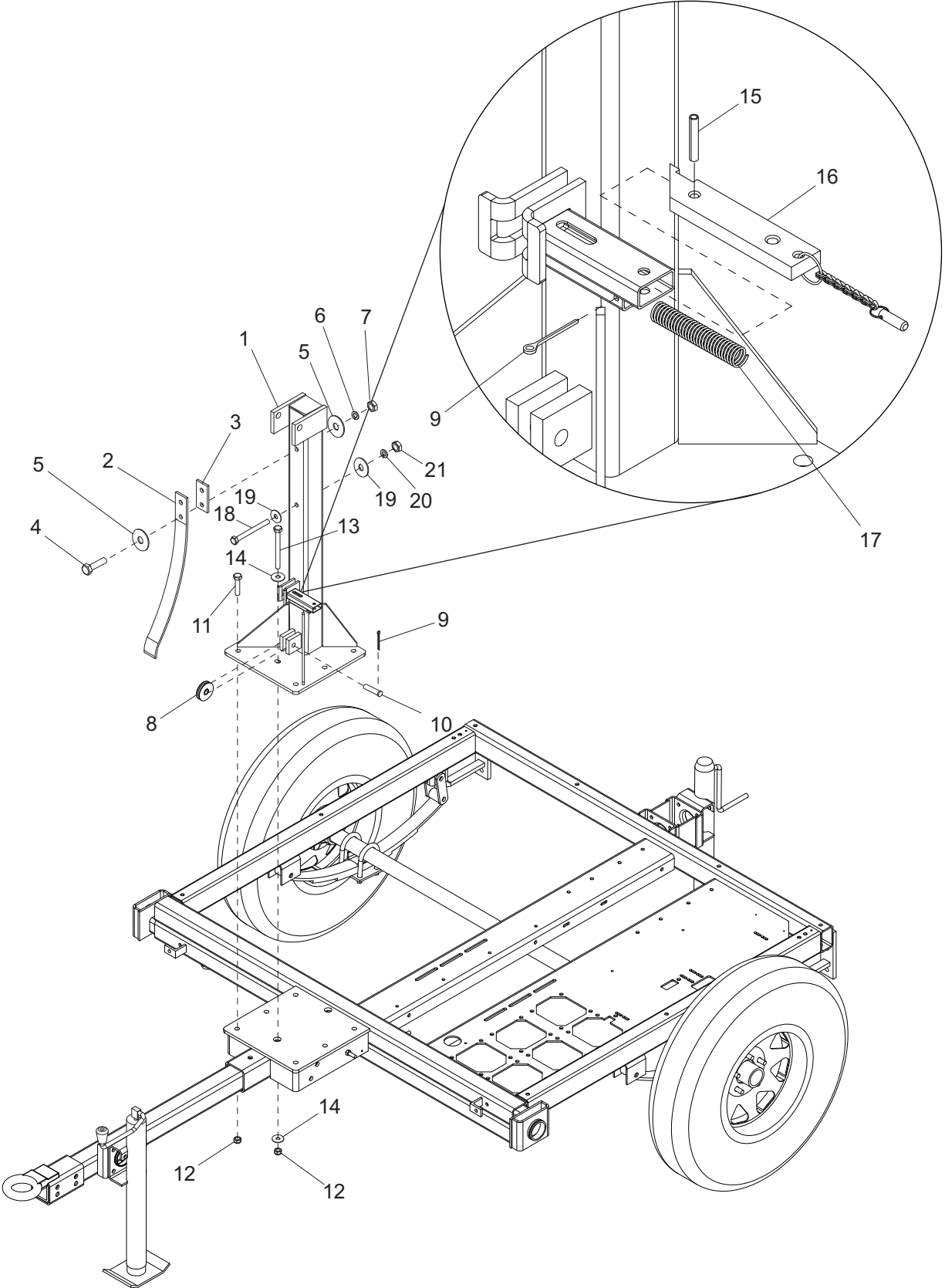
ITEM	PART	QTY	DESCRIPTION	NOTES
1	13688B	1	Weldment, chassis - open	
2	11965Z	4	Weldment, jack adapter	
3	13050	1	Jack assy, 2000 lb side wind - tube mount	
4	12408Z	2	Weldment, outrigger	
5	23256	4	Pin, jack - 2000 lb tube mount	
6	60358	16	Nut, .375-16 nytk G5	
7	60698	48	Washer, .375 flat .875/.040, SS	
8	60831	16	Screw, .375-16x1.500 std hex, SS	
9	13051	3	Jack assy, 3000# top wind - tube mount	
10	60503	6	Screw, shackle, .562-18x3" std hex	
11	17797	4	Plate, shackle bracket	
12	60504	6	Nut, .562-18 hex G5	
13	60096	10	Nut, .500-20 lug G5 (included w/axle)	
14	15540	2	Wheel, ST205/75R15, 1598LB - 6 PR	
15	12207	1	Axle- 3700LB 56SC 68.5TC	
16	11277	4	U-bolt 3500LB MLT	
17	11278	2	Tie plate 3500LB MLT	
18	11279	8	Axle nut (U-bolt) 3500LB MLT	
19	60674	10	Stud, wheel - .500-20 GR8	
20	12307	2	Bearing seal - DL350	
21	40954	2	Inner bearing	
22	11276	2	Hub w/races 3500LB MLT	
23	11511	2	Roller bearing - (L44649)	
24	50215	4	Screw, .500-13x4.000 std hex G5	
25	60416	14	Washer, .500 flat 1.375/.090	
26	16741B	1	Combo hitch - 2.50 tongue removable	
27	60307	5	Nut, .500-13 nytk G5	
28	23367	2	Chain, safety - 7,800 lbs rated	
29	12420B	1	Weldment, removable tongue - shipping	
30	14324	1	Kit, plunger	
31	60659	1	Screw, .500-13x5.000 std hex G5	
A	10734B	1	Weldment, spare tire holder	Option
B	19417	1	Breakaway kit	Option
C	12217B	1	Bracket, brake lever mounting	Option
D	15580	1	Park brake kit	Option
E	16830	1	Coupler, 2.00 ball/2.50 channel	Option
F	11672B	1	Hitch - 3.00x1.625 ring/2.50 tube	Option
G	16835B	1	Lunette ring-3.00IDx1 ring/2.5 tongue	Option
H	16999B	1	Lunette ring-2.50IDx1 ring/2.5 tongue	Option
J	12229	1	Coupler, 2.31 ball/3.00 channel	Option
K	12155B	3	Spacer, coupler	Option
L	13003B	1	Coupler, 2.00 ball/3.00 channel	Option
M	12122	1	Axle, 3700LB 56SC 68.5TC elec brake	Option
N	13667B	1	Weldment, chassis w/containment	Option: containment

COMPONENTS TO FRAME ASSEMBLY



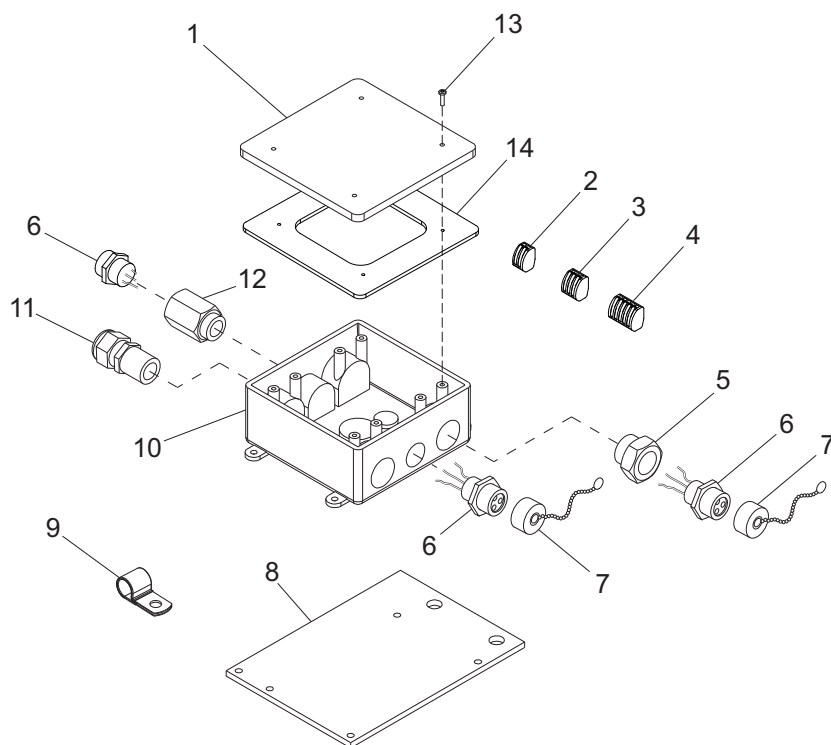
ITEM	PART	QTY	DESCRIPTION	NOTES
1	13697B	1	Strap, fuel tank	
2	12259	1	fuel pick up tube - 24.00"	
3	15142	1	Fitting, strt-.250NPTx.312barb	
4	16271	1	Fitting, 90-.250NPTx.188barb	
5	12162	1	Tank, fuel - 56 gallon poly	
6	12137	1	Cap, fuel tank-vent 3.5dia grn w/lanyard	
-	12080	1	Cap, fuel tank vented-3.5dia grn	
7	13698B	1	Strap, fuel tank	
8	10490B	1	Pan, fuel tank support	
9	12924B	1	Angle, battery hold down - black	
10	60820	2	Bolt, J - .250-20 x 9.00	
11	Page 20	1	Assy, frame	
12	13301	4	Assy, transformer-can and base - 60HZ	
13	10931	4	Cam, transformer - ballast box	
14	10930	4	Transf. & base brkt w/ str relief-60HZ	
15	60028	14	Screw, .312-18x1.000 std hex G5	
16	60271	14	Washer, .312 split lock	
17	60243	17	Washer, .250 flat .735/.060	
18	60505	14	Nut, .312-18 u-clip long type spring steel	
19	60825	3	Screw, .312-18x3.000 std hex G5	
20	60303	3	Nut, .312-18 nylok grade 2 ZC	
21	13768B	1	Cover, ballast wire	
A	65499	1	Switch, lockout lever kit	Option: battery disconnect
B	13654B	1	Bracket, battery disconnect	Option: battery disconnect
C	65498	1	Switch, disconnect	Option: battery disconnect
--	10699	1	Cable, battery - 24" black (not shown)	Option: battery disconnect
--	66715	1	Cable, disconnect switch (not shown)	Option: battery disconnect
--	18691	1	Cable, battery - 44" red (not shown)	Option: battery disconnect
D	13685B	1	Weldment, fuel tank pan	Option: for containment chassis

MAST POST ASSEMBLY



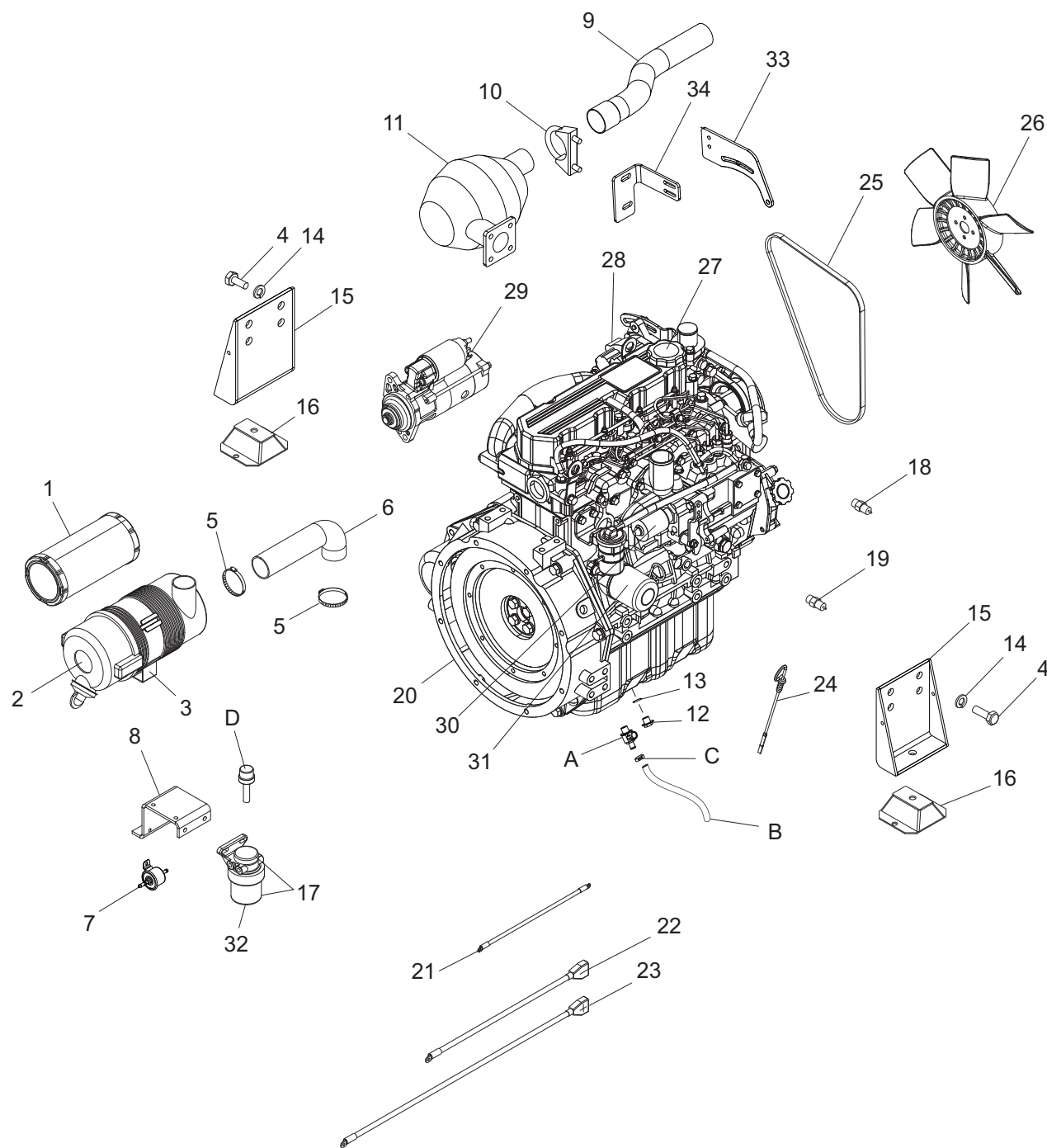
ITEM	PART	QTY	DESCRIPTION	NOTES
1	13700B	1	Weldment, mast post	
2	14845B	1	Spring, kickback - 50 lb	
3	11554Z	1	Spacer plate - kick-back spring	
4	60732	2	Screw, .500-13x5.500 std hex, SS	
5	60699	4	Washer, .500 flat 1.070/.080, SS	
6	60702	2	Washer, .500 split lock, SS	
7	14429	2	Switch, toggle	
8	14261	1	Sheave - 2 in	
9	15380	2	Pin, cotter - .125x1.250	
10	15015	1	Pin, clevis- .500 dia x 1.25	
11	60683	6	Screw, .500-13x1.500 std hex, SS	
12	60307	8	Nut, .500-13 nylok G2	
13	60659	2	Screw, .500-13x5.000 std hex G5	
14	60416	4	Washer, .500 flat 1.375/.090	
15	15165	1	Pin, roll - .250x1.250 plain	
16	11215	1	Assy, latch bar	
17	14275	1	Spring, compression - .60odx2.75X.054	
18	60401	1	Screw, .375-16x4.000 std hex G5	
19	60698	2	Washer, .375 flat .875/.040, SS	
20	60703	1	Washer, .375 split lock, SS	
21	60140	1	Nut, .375-16 hex G5	

MAST JUNCTION BOX ASSEMBLY - 4 LIGHT



ITEM	PART	QTY	DESCRIPTION	NOTES
1	12109	1	Box cover, 2-gang plastic	
2	66100	4	Connector, 2 pos. Wago	
3	66101	2	Connector, 3 pos. Wago	
4	66102	1	Connector, 5 pos. Wago	
5	60755	2	Fitting, .750MNPT x .500FNPT nylon	
6	15403	4	Connector, quick disconnect (female)	
7	15404	4	Cap, receptacle w/chain	
8	12095B	1	Bracket, junction box	
9	16143	1	Clamp, tubing .500	
10	12094	1	Box, junction	
11	14656	1	Strain relief, .750NPT water tight	
12	12713	1	Fitting, strt - .500MNPT x .500FNPT	
13	60424	4	Screw, 6-32x.750 pan phil G2 ZC	
14	13749	1	Gasket, junction box - HFI 281000	
-	11957	-	Assembly, mast junction box	

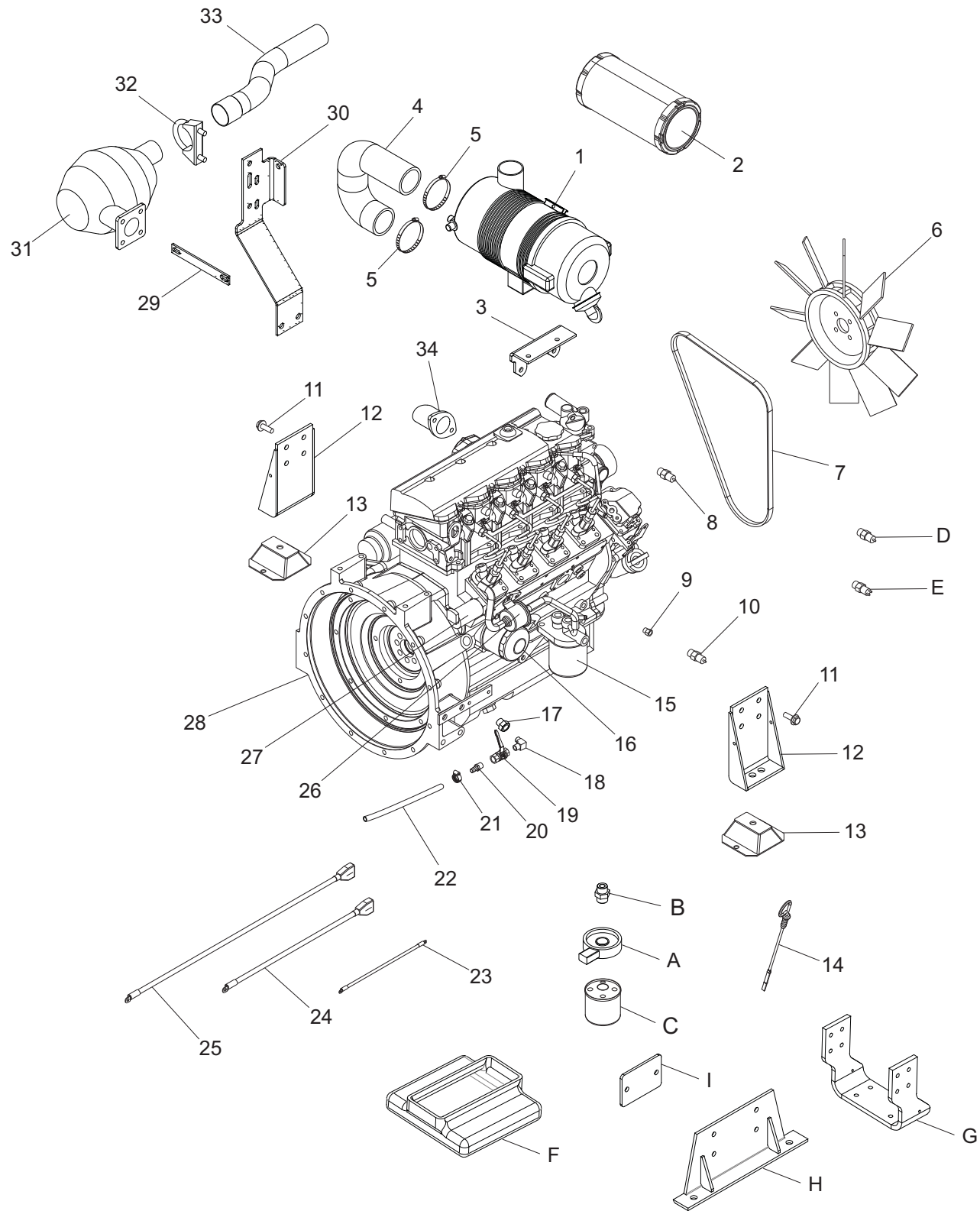
ENGINE ASSEMBLY MLT5150M



ITEM	PART	QTY	DESCRIPTION	NOTES
1	19270	1	Element, air filter	
2	16443	1	Assembly, air filter with bracket	
3	16445	1	Bracket, air cleaner housing	
4	61087	8	Screw, M12-1.25X25 std hex G10.9	
5	60316	2	Clamp, hose - SAE 032 (1.56-2.50)	
6	13695	1	Hose, air cleaner	
7	13278	1	Fuel pump	
8	11745B	1	Bracket, fuel/air filter	
9	13828	1	Pipe, exhaust	
10	18823	2	Clamp, 2 in. muffler	
11	17779	1	Muffler, Mitsubishi S4L (MAC)	
12	13084	1	Mitsubishi, plug, oil drain	
13	13085	1	Mitsubishi, gasket, oil drain	
14	60702	8	Washer, .500 split lock, SS	
15	11732B	2	Weldment, engine mount	
16	11524	2	Compression mount, 4.38x4.00x1.50	
17	17641	1	Fuel filter, head & element	
18	16678	1	Switch, coolant temperature	
19	16677	1	Switch, oil pressure	
20	13696	1	Engine, Mitsubishi S4L2 Int. Tier IV	
21	22438	1	Strap, braided ground - 16 in.	
22	15073	1	Cable, battery - 24" 4GA blk 7/16" lug	
23	15074	1	Cable, battery - 38" 4GA red 7/16" lug	
24	12586	1	Mitsubishi, gauge, oil level	
25	12746	1	Mitsubishi, V-belt, alternator	
26	12648	1	Mitsubishi, fan - pusher	
27	12582	1	Mitsubishi, cap, oil filler	
28	12753	1	Mitsubishi, alternator assy, 12V	
29	13266	1	Mitsubishi, starter assy	
30	12829	1	Mitsubishi, solenoid, fuel shut-down	
31	16691	1	Mitsubishi, filter, oil	
32	17647	1	Mitsubishi, fuel filter element	
33	14342B	1	Bracket, kegger muffler	
34	14343B	1	Bracket, kegger muffler	
A	60760	1	Valve, drain -14MMX1.5 w/nipple	
B	12438	1	Hose, oil drain .375 x 30, 30R7	
C	19453	1	Clamp, hose - SAE 006 (.37-.87)	
D	13876	1	Kit, heater - fuel filter	

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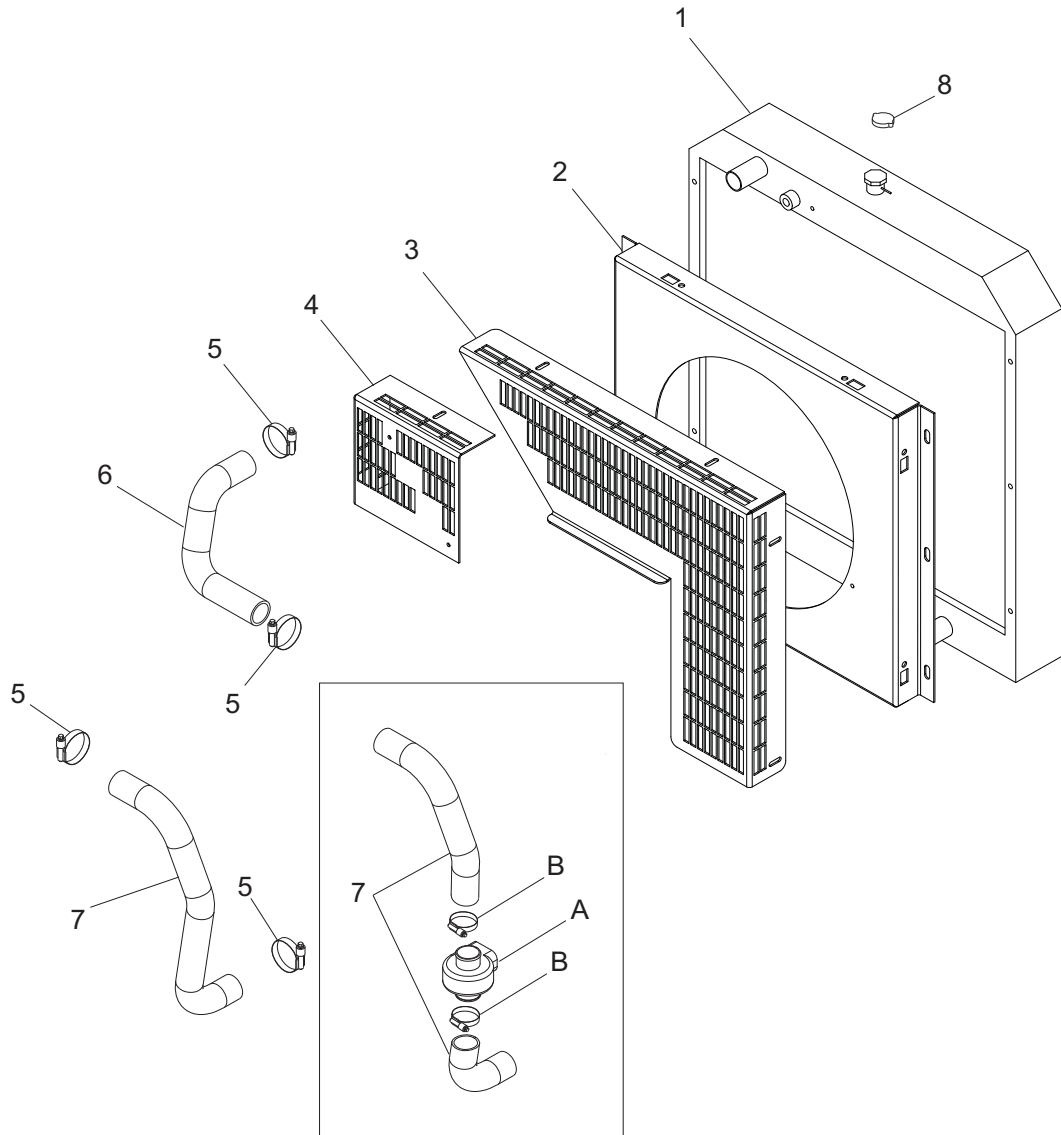
ENGINE ASSEMBLY MLT5200I



ITEM	PART	QTY	DESCRIPTION	NOTES
1	12969	1	Filter, air - metallic	
2	12973	1	Element, air filter	
3	42000B	1	Bracket, air filter	
4	13657	1	Hose, air filter	
5	60316	2	Clamp, hose - SAE 32	
6	19258	1	Fan, 15.75 in.	
7	22258	1	Belt, fan	
8	17718	1	Switch, water temp Isuzu	
9	19232	1	Fitting, .125FNPT X .125-28 BSP male	
10	15369	1	Switch, oil pressure	
11	60018	14	Screw, M10X1.25X20 hx ser flg	
12	11471B	2	Weldment, engine mount	
13	11524	2	Compression mount, 4.38x4.00x1.50	
14	23899	1	Dipstick, oil, Isuzu	
15	15331	1	Fuel filter element	
16	15183	1	Filter, oil - Isuzu	
17	62030	1	Fitting, strt-.375fnpt x M20 X 1.50 o-ring	
18	23069	1	Fitting, 90-.375mnpt brs	
19	19280	1	Valve, ball .375fnpt	
20	25931	1	Fitting, strt-.375npt x .625barb	
21	60365	1	Clamp, hose - SAE 010 (.56-1.06)	
22	50201	4 ft.	Hose, coolant - .625 I.D.	
23	16155	1	Assy, wire - eng/chassis ground	
24	15073	1	Cable, battery - 4 AWG X 24 in. blk	
25	15074	1	Cable, battery - 4 AWG X 38 in. red	
26	16205	1	Pump, fuel - Isuzu	
27	15372	1	Solenoid, fuel shutdown	
28	10896	1	Engine, Isuzu 4LE1NYGV-03	
29	14341B	1	Bracket, muffler support	
30	14340B	1	Bracket, muffler mounting	
31	10795	1	Muffler, Isuzu 4LE1	
32	18823	2	Clamp, 2 in muffler	
33	13828	1	Pipe, exhaust	
34	13762	1	Air inlet pipe - straight	
--	26049	1	Alternator, Isuzu	Not shown
A	13682	1	Heater, fuel filter	Option: heated fuel filter
B	13683	1	Adapter, heater element	Option: heated fuel filter
C	13515	1	Fuel filter element	Option: heated fuel filter
--	13834	1	Gasket, heated fuel filter	Not shown
--	13684	1	Harness, fuel filter heater - inside	Not shown
--	10662	1	Harness, fuel filter heater - outside	Not shown
D	15370	1	Switch, water temp Isuzu (single post)	Option
E	32505	1	Switch, water temp Isuzu (dual post)	Option
F	12416	1	Pan, oil, Isuzu - ext capacity	Option: ext cap oil pan
G	12366B	1	Weldment, engine mount - ext capacity	Option: ext cap oil pan
H	12367B	1	Weldment, engine mount - ext capacity	Option: ext cap oil pan
I	12614B	1	Cover, port - ext oil cap pan	Option: ext cap oil pan
--	12417	1	Gasket, Isuzu, oil pan ext capacity	Not shown

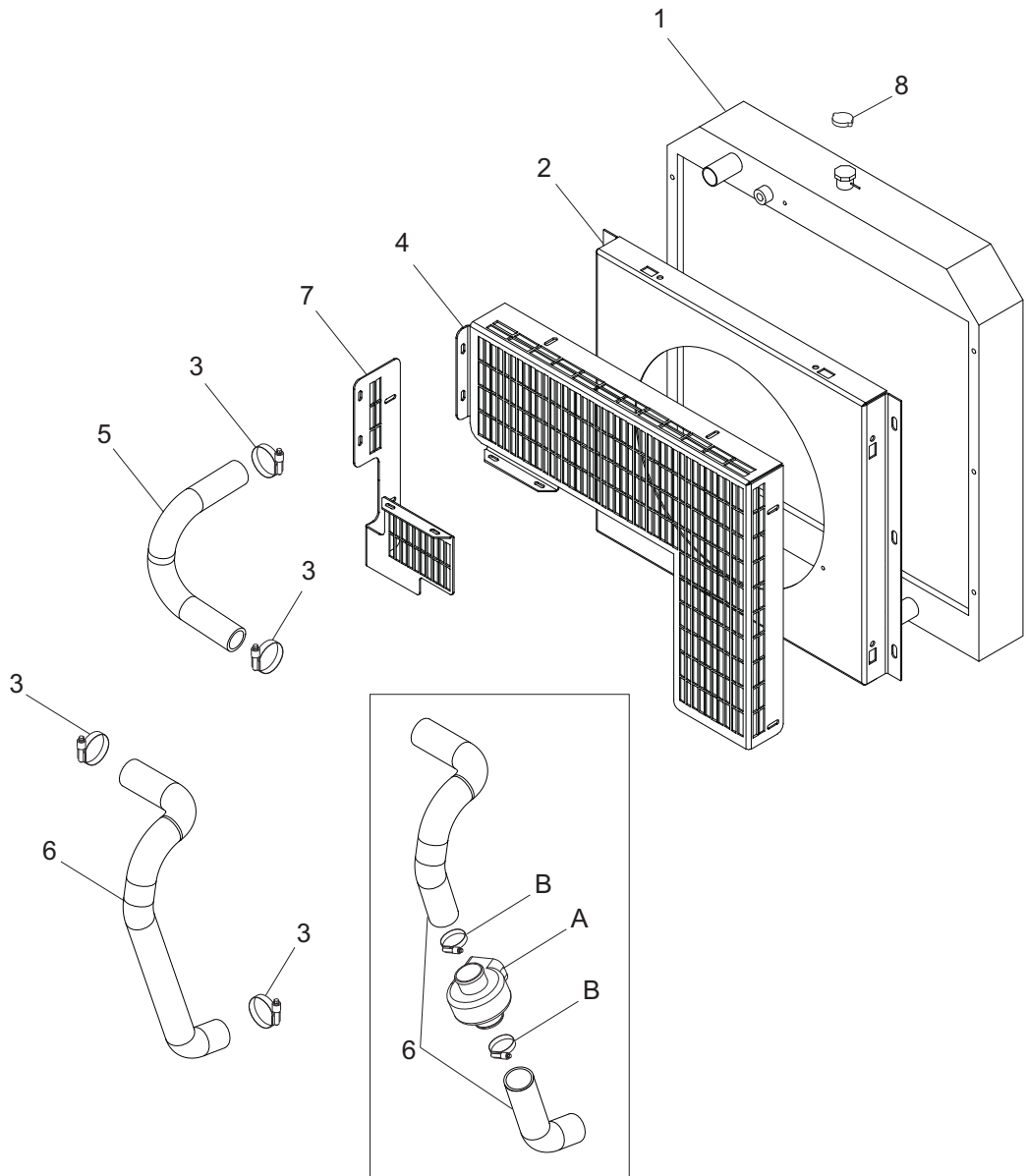
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COOLING SYSTEM ASSEMBLY MLT5150M



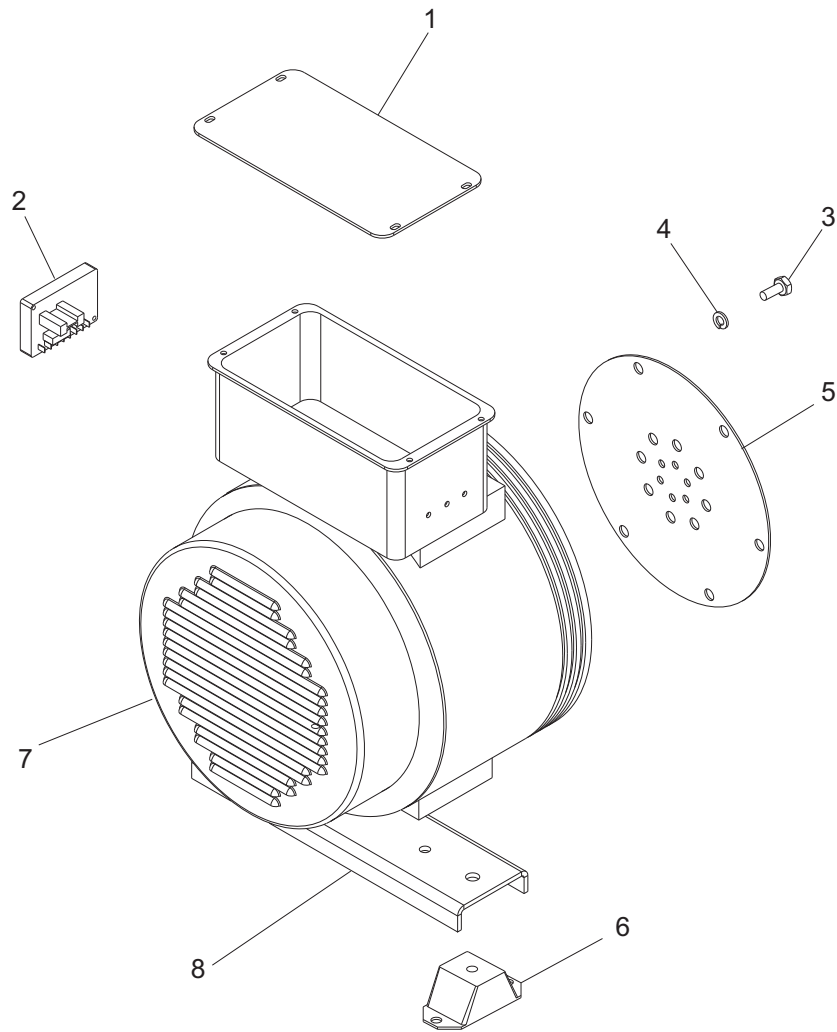
ITEM	PART	QTY	DESCRIPTION	NOTES
1	13660	1	Radiator, 20kW wide	
2	10423B	1	Fan shroud	
3	13778B	1	Fan guard	
4	10827B	1	Guard, fan - muffler side	
5	60663	4	Clamp, hose - constant torque 1.25-2.13	
6	11891	1	Hose, radiator - upper	
7	15185	1	Hose, radiator - lower	
8	19219	1	Cap, pressure radiator - 14.7 PSI	
A	65648	1	Heater, engine - low rad hose	Option
B	62245	2	Clamp, hose - constant torque .813-1.75	Option

COOLING SYSTEM ASSEMBLY MLT5200I



ITEM	PART	QTY	DESCRIPTION	NOTES
1	13660	1	Radiator, 20kW wide	
2	10423B	1	Fan shroud	
3	60663	4	Clamp, hose - constant torque 1.25-2.13	
4	17818B	1	Guard, fan - upper	
5	12064	1	Hose, radiator upper	
6	12356	1	Hose, radiator lower	
7	17819B	1	Guard, fan - lower	
8	19219	1	Cap, pressure radiator - 14.7 PSI	
A	65650	1	Heater, engine - low rad hose	Option
B	62245	2	Clamp, hose - constant torque .813-1.75	Option

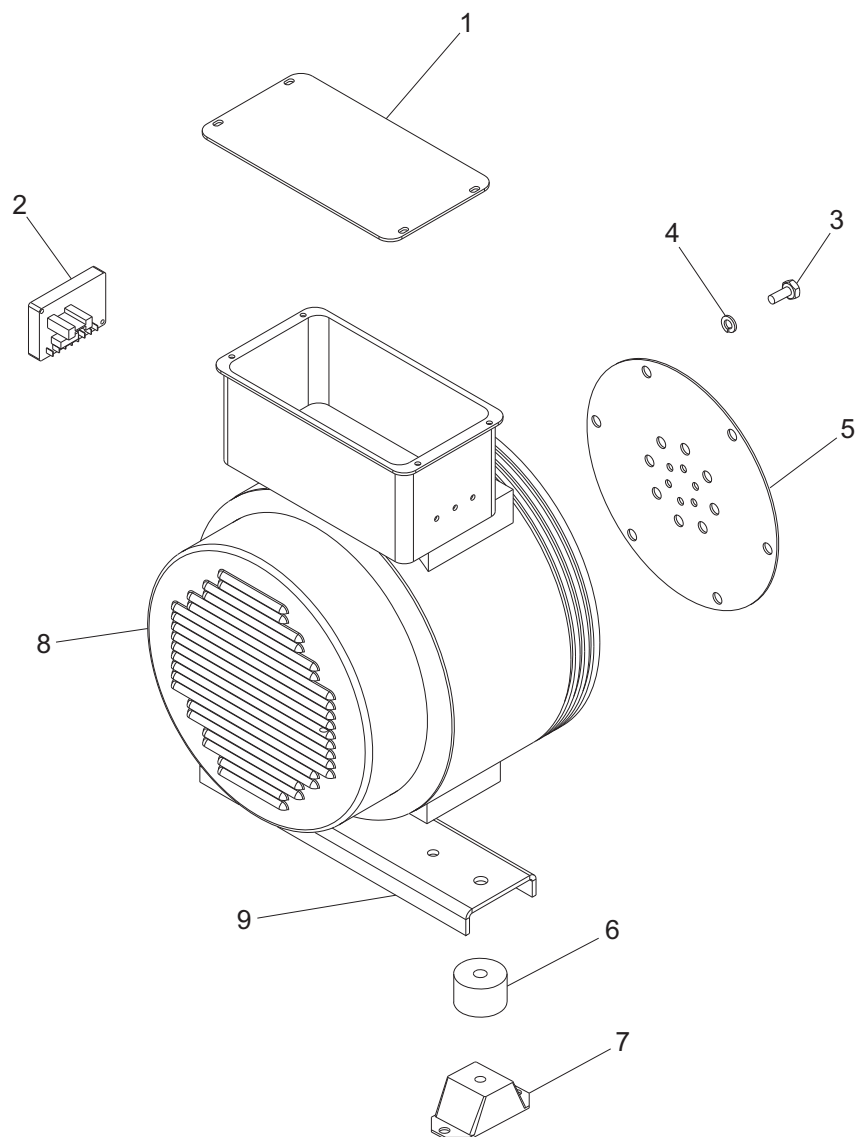
GENERATOR ASSEMBLY MLT5150M



ITEM	PART	QTY	DESCRIPTION	NOTES
1	32509	1	Cover, generator box	
2	18556	1	Regulator, voltage - SE 350	
3	60165	6	Screw, M8x1.25x16 hx G10.9 LB	
4	60029	6	Washer, split lock M8	
5	11000	1	Plate, drive	
6	15241	2	Isolator, rubber	
7	11327	1	Generator, 333CSA3024,15KW	
8	11597B	1	Bracket, gen mount	

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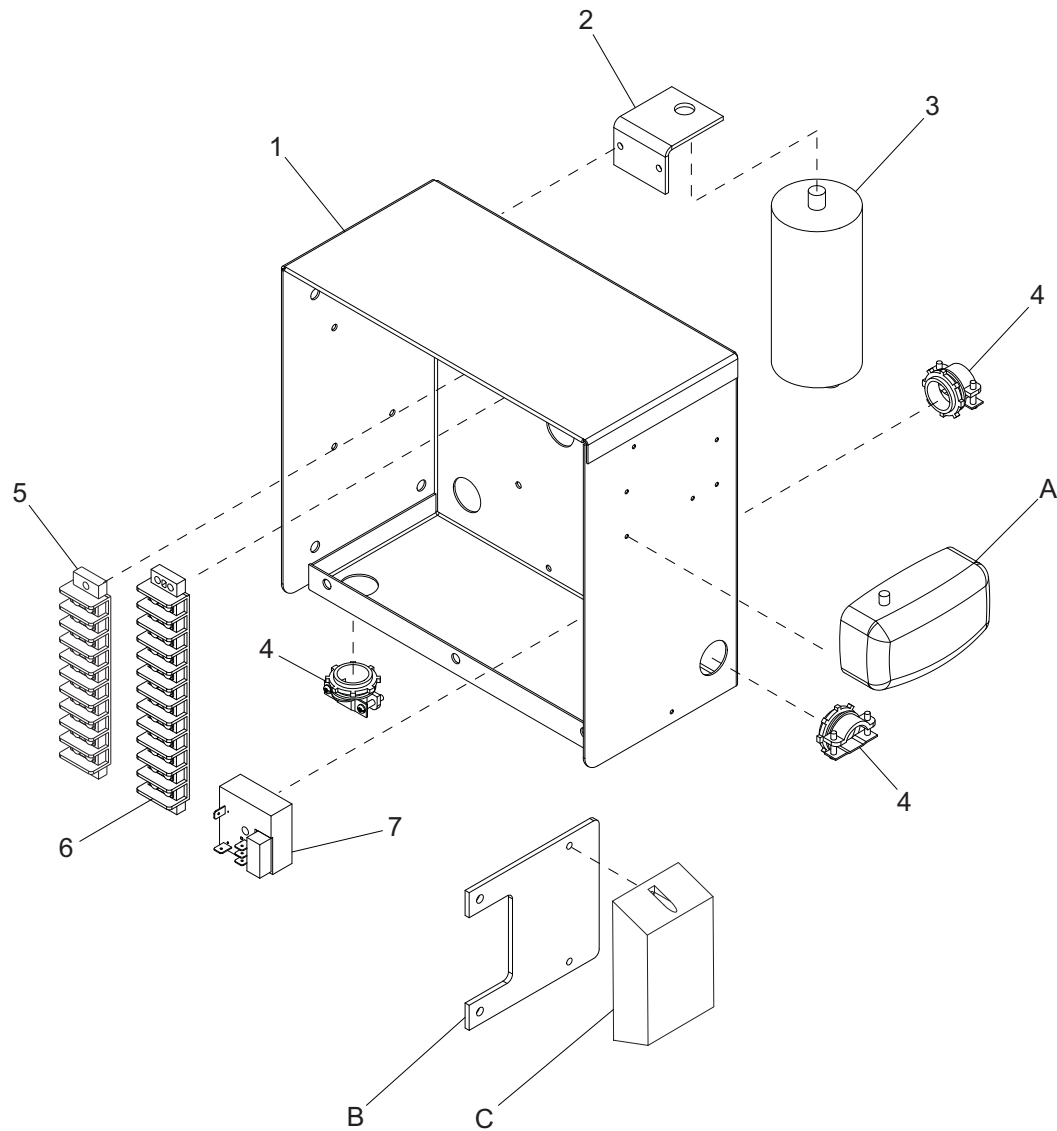
GENERATOR ASSEMBLY MLT5200I



ITEM	PART	QTY	DESCRIPTION	NOTES
1	32509	1	Cover, generator box	
2	18556	1	Regulator, voltage - SE 350	
3	60495	8	Screw, M10-1.25x16 hex	
4	60026	8	Washer, split lock M10	
5	11000	1	Plate, drive	
6	11515B	2	Spacer, 2.00 dia x .531 ID x 1.0 long	
7	12450	2	Isolator, rubber	
8	11481	1	Generator, 334CSA3028, 20KW	
9	11597B	1	Bracket, gen mount	

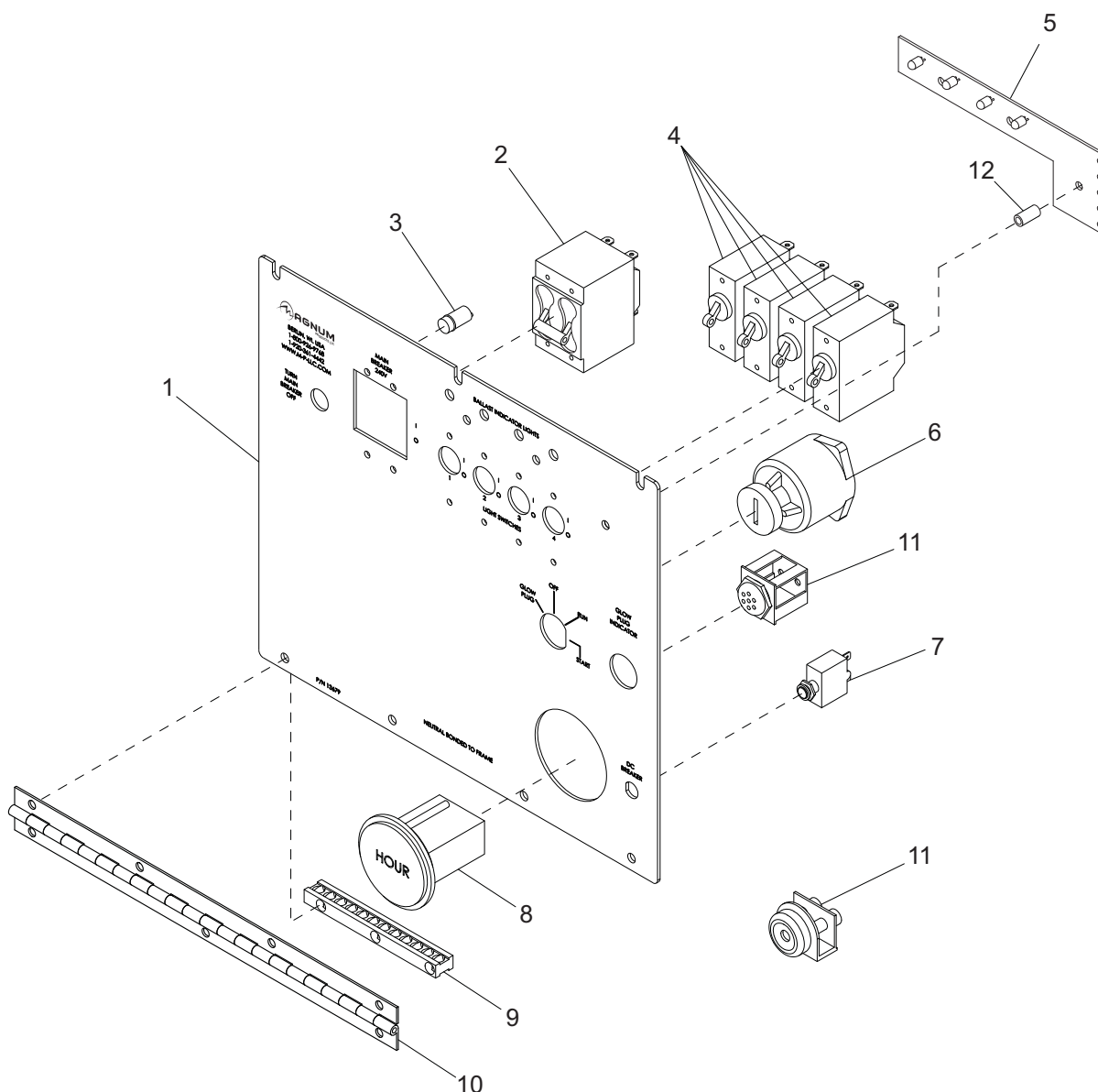
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CONTROL BOX ASSEMBLY



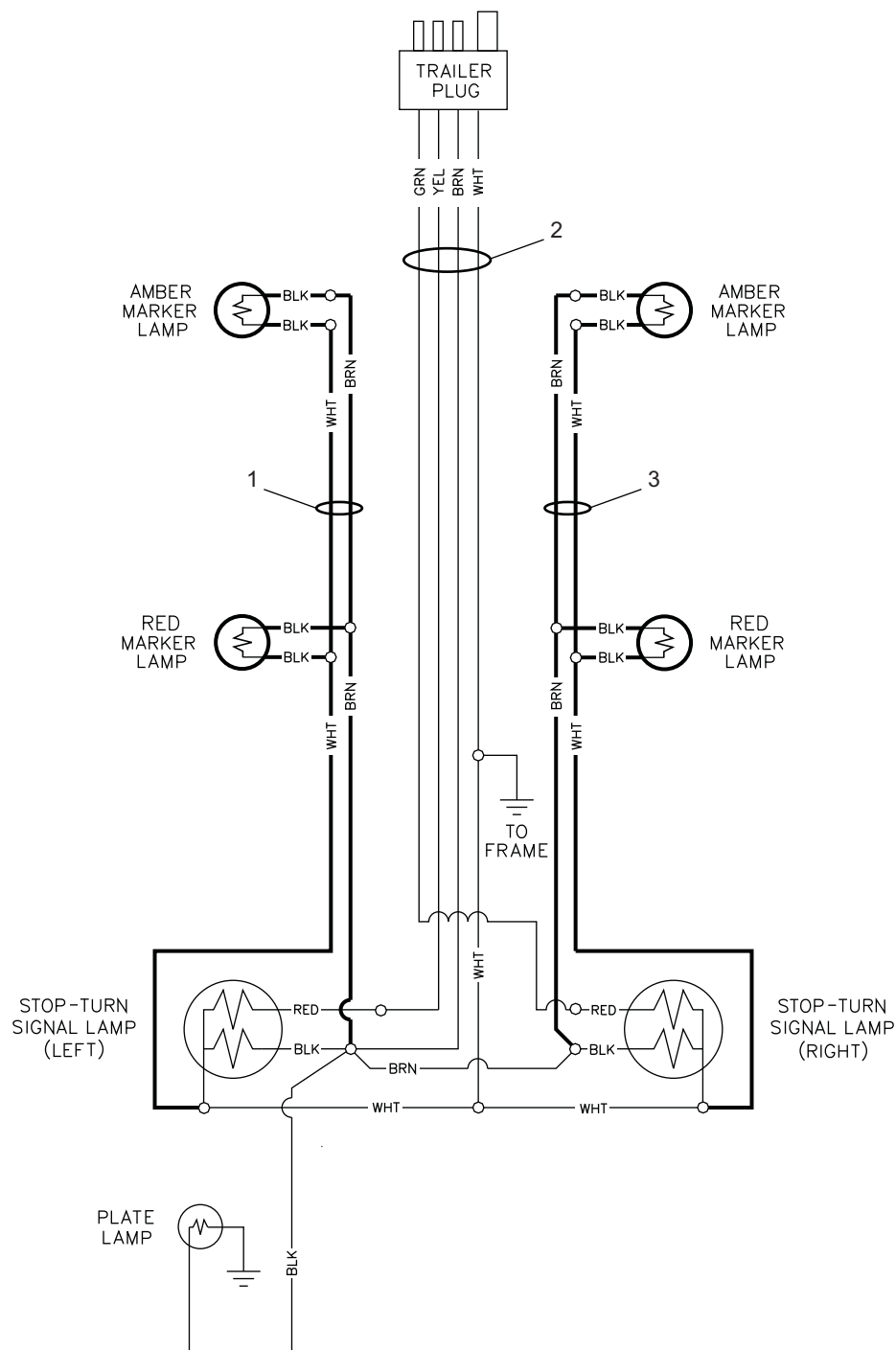
ITEM	PART	QTY	DESCRIPTION	NOTES
1	13666B	1	Box, control	
2	13690B	2	Bracket, capacitor	
3	65959	2	Capacitor, dual 24uF sealed stud mount	
4	14219	6	Strain relief- .75 romex w/ nut	
5	14203	1	Block, terminal - 10 pos	
6	14139	1	Block, terminal - 12 pos	
7	14201	1	Relay, 10A spdt 12VDC time delay	
A	11947	1	Light, interior with switch	Option
B	12429B	1	Bracket, battery charger - 2 amp, 3 stage	Option
C	65326	1	Charger, battery - 2 amp, 3 stage	Option

CONTROL PANEL ASSEMBLY



ITEM	PART	QTY	DESCRIPTION	NOTES
1	13679	1	Panel, control, 20KW	
2	60736	1	Breaker, 70A, 250V, 2 pole, stud term	MLT5150M
	65429	1	Breaker, 100A, 250V, 2 pole, stud term	MLT5200I
3	65388	1	Light, indicator red - w/ wire 12V dc	
4	14249	4	Breaker, 15A 250V 1pole	
5	66423	1	PCB, LED lights MLT - expanded	With connector
6	15195	1	Switch, key	
7	65850	1	Breaker, 10A, 240V, 1 pole push button	
8	15085	1	Gauge, hourmeter	
9	14204	1	Kit, ground bar	
10	13677	1	Hinge, continuous - 11.00	
11	13264	1	Glow plug indicator	MLT5150M
	10520	1	Glow plug indicator	MLT5200I
12	66257	3	Spacer, plastic, .2 ID, .375 OD .25 thick	

WIRING HARNESS ASSEMBLY



ITEM	PART	QTY	DESCRIPTION
1	10264	1	Harness, left side trailer
2	10499	1	Assy, trailer light harness
3	10265	1	Harness, right side trailer
-	65441	-	Adapter, pig-tail trailer light 4-pin to 12-pin
-	65465	-	Adapter, trailer wiring flat 4 to rnd 7 blade
-	65464	-	Adapter, trailer wiring flat 4 to rnd 7 pin
-	65463	-	Adapter, trailer wiring flat 4 to rnd 6 pin
-	65548	-	Adapter, 4 pin flat to 4 pin flat X 12.00

SERVICE LOG

OIL GRADE AND TYPE: _____ BRAND: _____

COOLANT MIXTURE: _____ BRAND: _____



NOTES

[illegible]

REV: A
PART NO: 10998
07.11.12