



Diesel Generator Set



PARTS LIST MANUAL

For

69UG15

PowerLINE[®] Series 24 Generator Set Units
PID UG2400 to 2499



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TABLE OF CONTENTS

PARAGRAPH NUMBER	PAGE
1.1 Introduction	1
1.2 Model and Product Identification Numbers	1
1.3 Letter Designations	1
1.4 Quick Parts Reference	1
2 UG Generator Set Configuration	5
3 Unidrive Assembly - Engine and Generator	7
4 Engine Air Cleaner	9
5 Engine Fuel System	11
6 Engine Fuel Tank - 50/65 Gallon Steel	13
7 Engine Fuel Tank - 80 Gallon Steel	14
8 Engine Coolant System	15
9 Exhaust System	17
10 Battery Charger	19
11 Battery Kit	21
12 Frame Assembly	23
13 Mounting Kit	24
14 Skins Kit, Left Hinged Main Access Door	25
15 Skins Kit , Right Hinged	29
16 Snubber Kit	32
17 Control Box	33
18 Receptacle Box	35
19 Electrical Box and Receptacle Box (PID UG2403)	39
20 Voltage Kit	43
21 External Voltage Controller Kit	45
22 Labels and Decals	47
23 Label, Schematic - Control Box, Control Panel and ENCU	49
24 Label, Schematic - Receptacle Box and High Voltage Circuitry	50
25 Label, Schematic - Receptacle Box and High Voltage Circuitry (PID UG2403)	51

Section 1

Introduction

1.1 Introduction

This parts list identifies service replacement parts for the Carrier Transicold Diesel-Driven Generator Set listed in the model chart below. This parts list does not include detailed replacement parts for the engine listed in the first chart below. Detailed parts identification for these items may be found in the applicable parts list. The form numbers for the engine omit revision dash numbers. For example, the latest engine list may have an -01 added to the basic number to read 62-03459-01. Therefore, when forms are ordered the latest revision will be sent.

Manual Number	Engine Part Number	Engine Model	Type of Manual
62-12242	26-00159-03	V2403-CR-E4B-CTD-6	Engine Parts List

1.2 Model and Product Identification Numbers

All orders and inquiries for parts must include: Parts Identification Number (PID), Model Number, Unit Serial Number, Part Number, Description of part as shown on list and quantity required.

For parts ordering and inquiries, go to the Contact Us page on the Carrier Container website:

<https://www.carrier.com/container-refrigeration/en/worldwide/locator/contact-us/>

1.3 Letter Designations

The following letter designations are used to classify parts throughout this list:

A/R *As Required*

NLO *No Longer Offered*

PID *Parts Identification Number* - essential to identify unit configuration

PL *Purchase locally*

SST *Stainless Steel* - 300 Series unless otherwise specified

SV *Suffix SV* - added to the part number designates service part replacement part

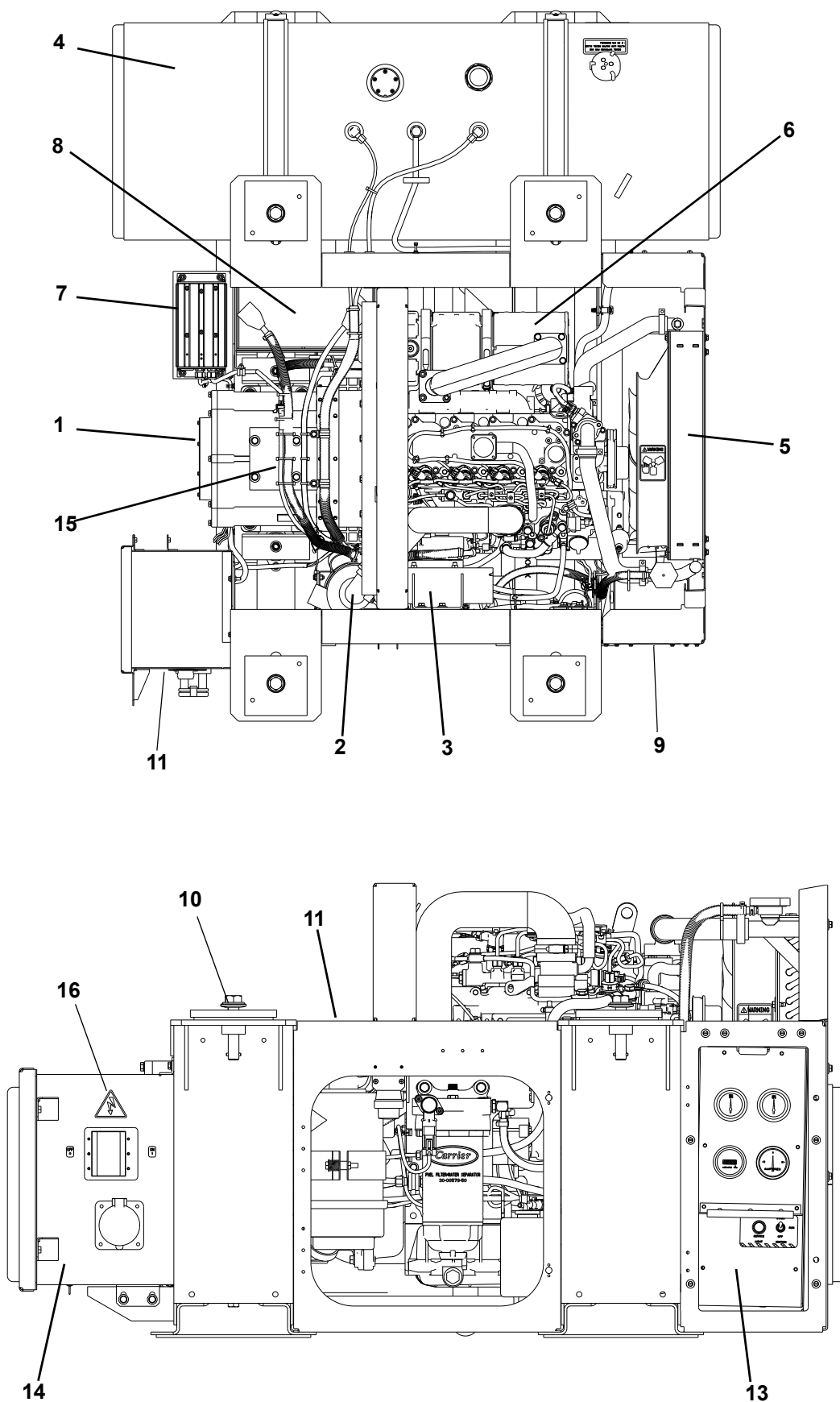
1.4 Quick Parts Reference

Part Number	Description
30-00426-05	Air Cleaner, Filter Element
30-00426-25	Air Cleaner, Filter
30-00406-01	Air Cleaner Indicator
30-50347-01	Battery
30-00460-06	Battery Charger
30-00591-02	Diesel Oxidation Catalyst (DOC)
26-00159-03	Engine, Kubota
12-00747-11	Fuel Gauge
12-00747-06	Fuel Gauge, Dial Only
30-00579-20	Fuel Heater with O-Ring and Screws
30-00579-50	Fuel Filter Element Kit, Includes: Filter Element, O-Ring, Gasket
30-00601-00	Fuel Filter Assembly with Heater
30-00601-50	Fuel Filter Bowl Assembly, Includes: Filter Element, O-Ring, Gasket

Part Number	Description
30-00601-51	Fuel Filter Head Assembly, Includes: Bowl, Float Ring, Drain Valve, O-Ring, Gasket
30-01108-04SV	Fuel Pump
30-01108-20	Fuel Pump - Filter
30-01108-22	Fuel Pump - Gasket, Bowl
30-01108-23	Fuel Pump - Bowl
54-00738-20	Generator
54-00738-21	Generator Fan
66-U---1--2823-4	Oil Pressure Sender (OPS)
81-01379-00	Radiator
40-00081-00	Radiator Air Vent
30-00397-00	Radiator Cap
40-00117-01	Radiator Drain Cock
25-39320-00	Radiator Fan
12-00098-04	Water Temperature Sender (WTS)
91-01222-01	Control Box Assembly, Complete
22-00538-01	Ammeter
10-00171-12	Circuit Breaker, 30 Amp (CB2, CB4)
10-00171-13	Circuit Breaker, 50 Amp (CB3)
86-03341-01	Control Box Assembly, Weld
68-08838-00	Control Panel
10-00448-50	Hour Meter
10-01129-14	Ignition Switch (IGN)
22-03218-00	Lamp Assembly, Engine Service Light (ESL)
12-00592-16	Low Oil Pressure (LOP) Switch
66-U---1--2823	Oil Pressure Gauge (OPG)
10-00286-03	Relay, 30 Amp (FPR, ENSR, ENGR, SSR)
10-00328-06	Relay, 70 Amp (GPR)
12-00097-03	Water Temperature Gauge (WTG)
22-03199-01	Wire Harness, Low Voltage
91-00488-01	Receptacle Box Assembly, Complete - <i>for PIDs UG2401, UG2404</i>
66-U---1--7842-11	Circuit Breaker (CB1)
22-01196-24	Fuse (VCF1, VCF2, BCF3)
22-01679-00	Receptacle, 32 Amp
86-04991-00	Receptacle Box
86-04941-00	Receptacle Box Cover
12-00707-04	Voltage Controller (VC)
22-04275-00	Wire Harness, Low Voltage, Voltage Controller
22-04436-00	Wire Harness, High Voltage, Battery Charger
22-04435-00	Wire Harness, High Voltage, Generator
22-04438-00	Wire Harness, High Voltage, Voltage Controller (VCA)
22-04437-00	Wire Harness, High Voltage, Voltage Controller (VCB)

Part Number	Description
91-01226-00	Electrical Box / Receptacle Box, Complete - <i>for PID UG2403 only</i>
86-03218-01	Electrical Box Assembly, Weld
86-04941-00	Electrical Box Cover
22-01196-24	Fuse (VCF1, VCF2, BCF3)
22-03213-00	Wire Harness, Low Voltage - Receptacle Box, Voltage Controller (VCB)
22-03211-00	Wire Harness, High Voltage - Electrical Box / Receptacle Box
22-03212-00	Wire Harness, High Voltage - Receptacle Box, Voltage Controller (VCA) and Battery Charger
22-03214-00	Wire Harness, High Voltage - Receptacle Box and Generator

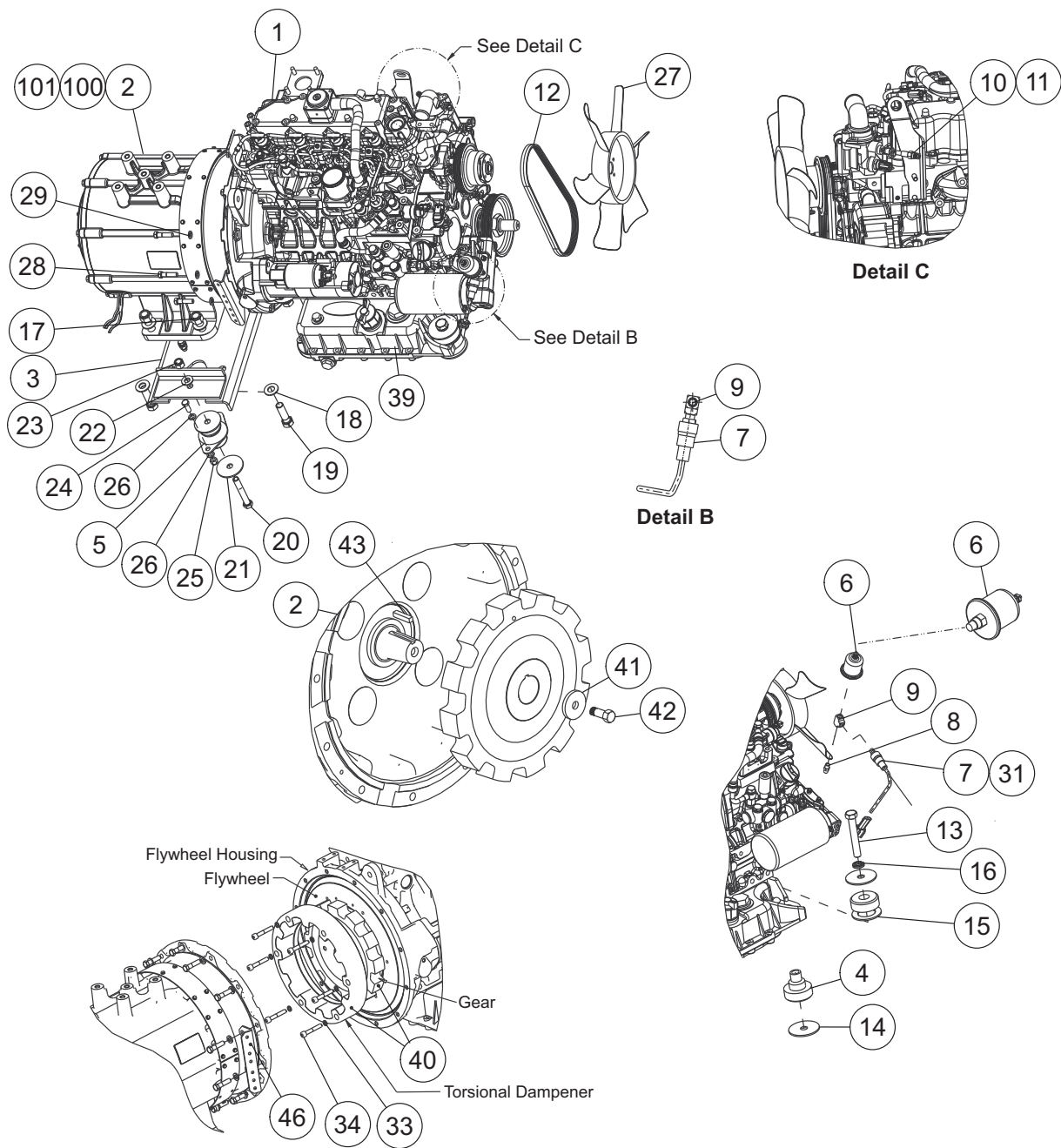
2 UG Generator Set Configuration



2 UG Generator Set Configuration

Item	Section Number	Area Description	
1	Refer to Section 3	Unidrive Assembly - Engine and Generator	
2	Refer to Section 4	Engine Air Cleaner	
3	Refer to Section 5	Engine Fuel System	
4	Refer to Section 6	Engine Fuel Tank 50/65 Gallon	
4	Refer to Section 7	Engine Fuel Tank 50/65 Gallon	
5	Refer to Section 8	Engine Cooling System	
6	Refer to Section 9	Exhaust System	
7	Refer to Section 10	Battery Charger	
8	Refer to Section 11	Battery Kit	
9	Refer to Section 12	Frame Assembly	
10	Refer to Section 13	Mounting Kit	
11	Refer to Section 14	Skins Kit, Left Hinged Main Access Door	
11	Refer to Section 15	Skins Kit, Right Hinged Main Access Door	
	Refer to Section 16	Snubber Kit (Not Shown)	
13	Refer to Section 17	Control Box	
14	Refer to Section 18	Receptacle Box	
14	Refer to Section 19	Electrical Box and Receptacle Box (PID UG2403)	
15	Refer to Section 20	Voltage Kit	
15	Refer to Section 21	Voltage Controller	
16	Refer to Section 22	Labels and Decals	
	Refer to Section 23	Label - Schematic (not shown)	
	Refer to Section 24	Label - Schematic (not shown)	
	Refer to Section 25	Label - Schematic (not shown)	

3 Unidrive Assembly - Engine and Generator



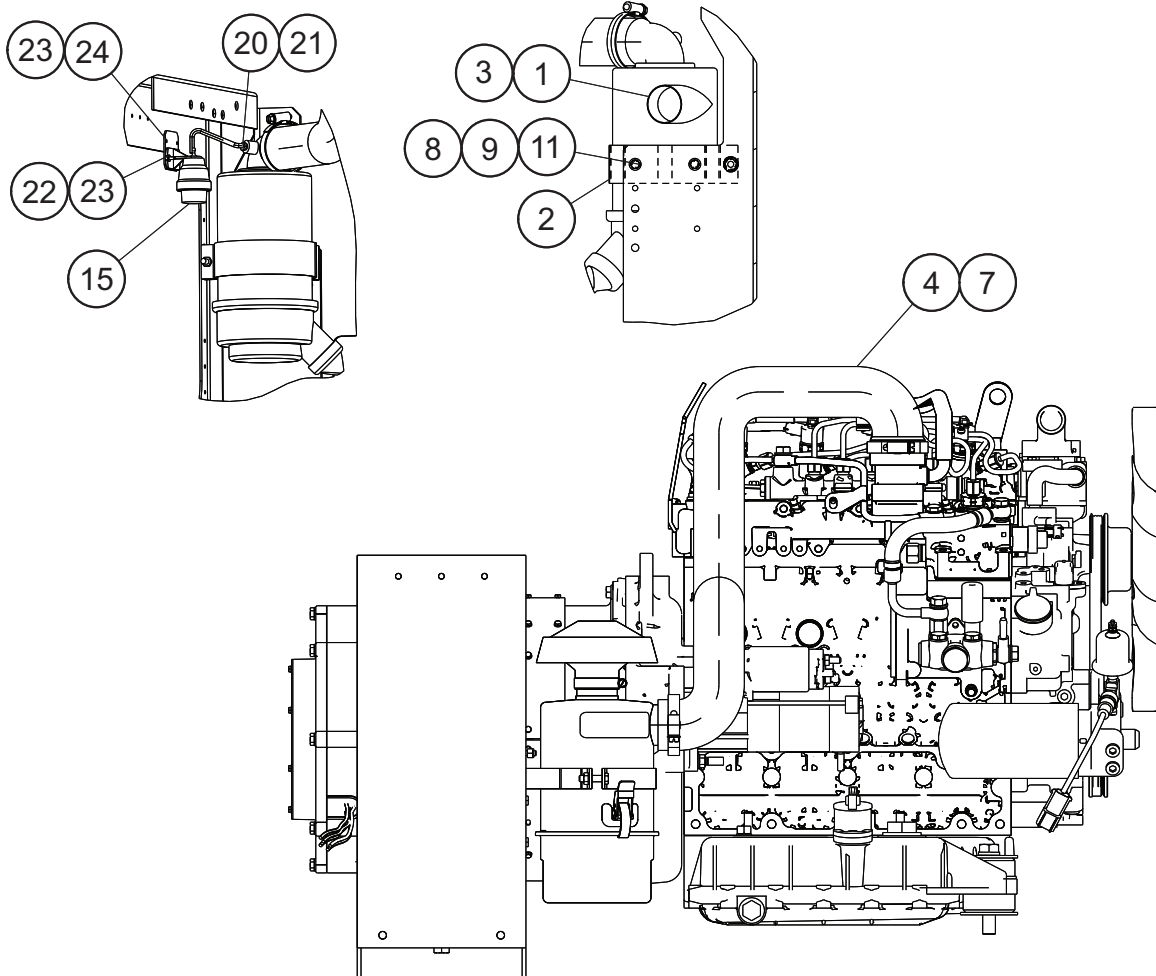
Item	Part Number	Description	Qty
1	26-00159-03	Engine, Kubota	1
2	54-00738-20	Generator, AC	1
3	86-04524-01	Plate, Support	1
4	73-00198-01	Shockmount	2
5	73-00175-01	Shockmount	2
6	66-U---1--2823-4	Oil Pressure Sender (OPS)	1
7	12-00592-16	Low Oil Pressure (LOP) Switch	1
8	40-00771-00	Nipple, Hex	1

3 Unidrive Assembly - Engine and Generator

9	40-00107-01	Tee	1
10	12-00098-04	Water Temperature Sender (WTS)	1
11	40-00121-01	Bushing	1
12	50-01198-00	Belt	1
13	66-U---1--5361-36	Screw, Cap Hxhd	2
14	34-06060-01	Washer, Snubbing	4
15	34-00890-10	Washer, Flat	2
16	66-U---1--5331-8	Washer, Lock	2
17	34-00795-17	Nut, Self Lock	4
18	66-U---1--5321-9	Washer, Plain	8
19	34-00804-18	Screw, Cap Hxhd	4
20	34-00833-28	Screw, Cap Hxhd	2
21	34-06060-02	Washer, Snubbing	4
22	34-00829-15	Washer, Plain	2
23	34-00667-15	Nut, Self Lock	2
24	34-00807-08	Screw, Cap Hxhd	4
25	34-00667-13	Nut, Self Lock	4
26	34-00829-13	Washer, Plain	8
27	34-00945-06	Washer, Lock	4
28	34-00807-12	Screw, Cap Hxhd	12
29	34-00663-13	Washer, Lock	12
31	58-00079-02	Sta-Strap	2
33	34-01146-58	Washer, Lock	6
34	34-01369-50	Screw, Socket Hd	6
39	46-00031-01	Oil, Engine	1
40	50-01195-00	Coupling	1
41	34-01319-00	Washer, Flat	1
42	34-00559-08	Screw, Cap Hxhd	1
43	34-06029-08	Key, Square	1
46	68-19422-00	Bracket, Hanger	1
100	54-00738-21	Generator Fan	1
101	54-00738-22	Cover, Generator Fan	1

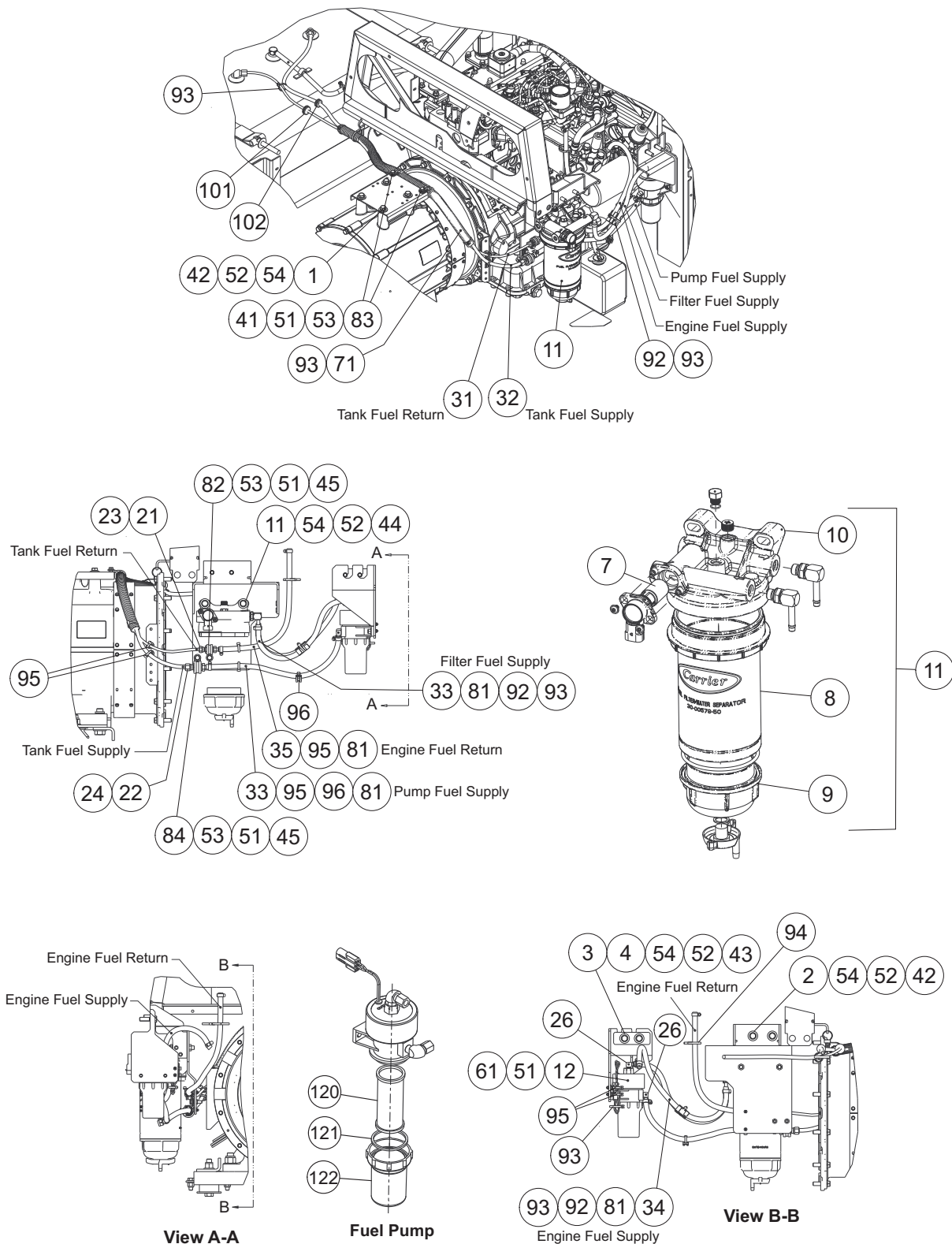
4 Engine Air Cleaner

Use 77-00449-00



Item	Part Number	Description	Qty
1	30-00426-05	Air Cleaner Filter Element	1
2	44-00454-00	Bracket	1
3	34-00426-25	Air Cleaner Filter	1
4	58-01516-00	Hose, Intake	1
7	--KA--69JM-840	Clamp, Hose	2
8	66-U---1--5321-3	Washer, Plain	2
9	66-U---1--5361-25	Screw, Cap Hxhd	2
11	34-00667-11	Nut, Self Lock	2
15	30-00406-01	Indicator	1
20	40-00506-00	Fitting	1
21	58-04102-03	Hose	1
22	66-U---1--9132	Washer, Plain	2
23	34-00928-10	Rivet, Blind	4
24	68-15491-00	Plate, Mounting	1

5 Engine Fuel System

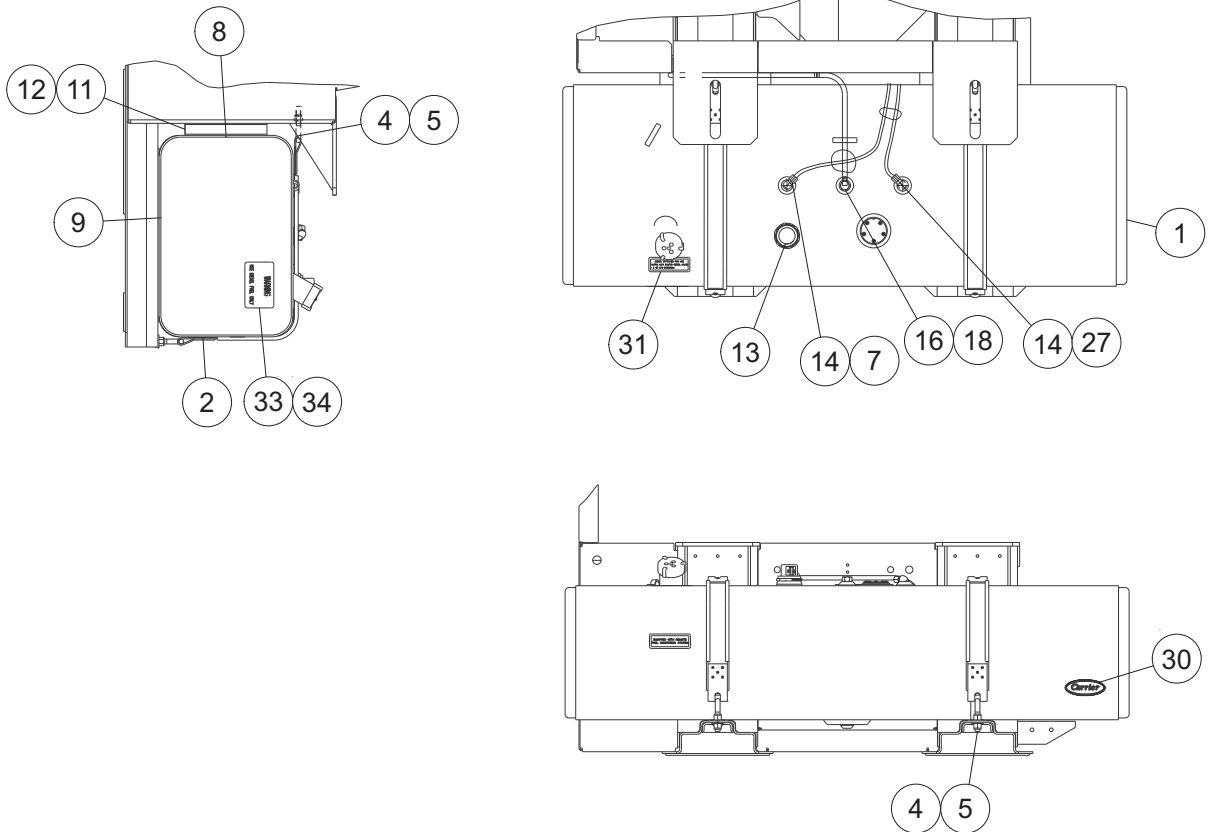


Item	Part Number	Description	Qty
1	68-18431-00	Bracket	1
2	86-05484-00	Bracket, Filter	1
3	86-05529-01	Weld Assembly	1

5 Engine Fuel System

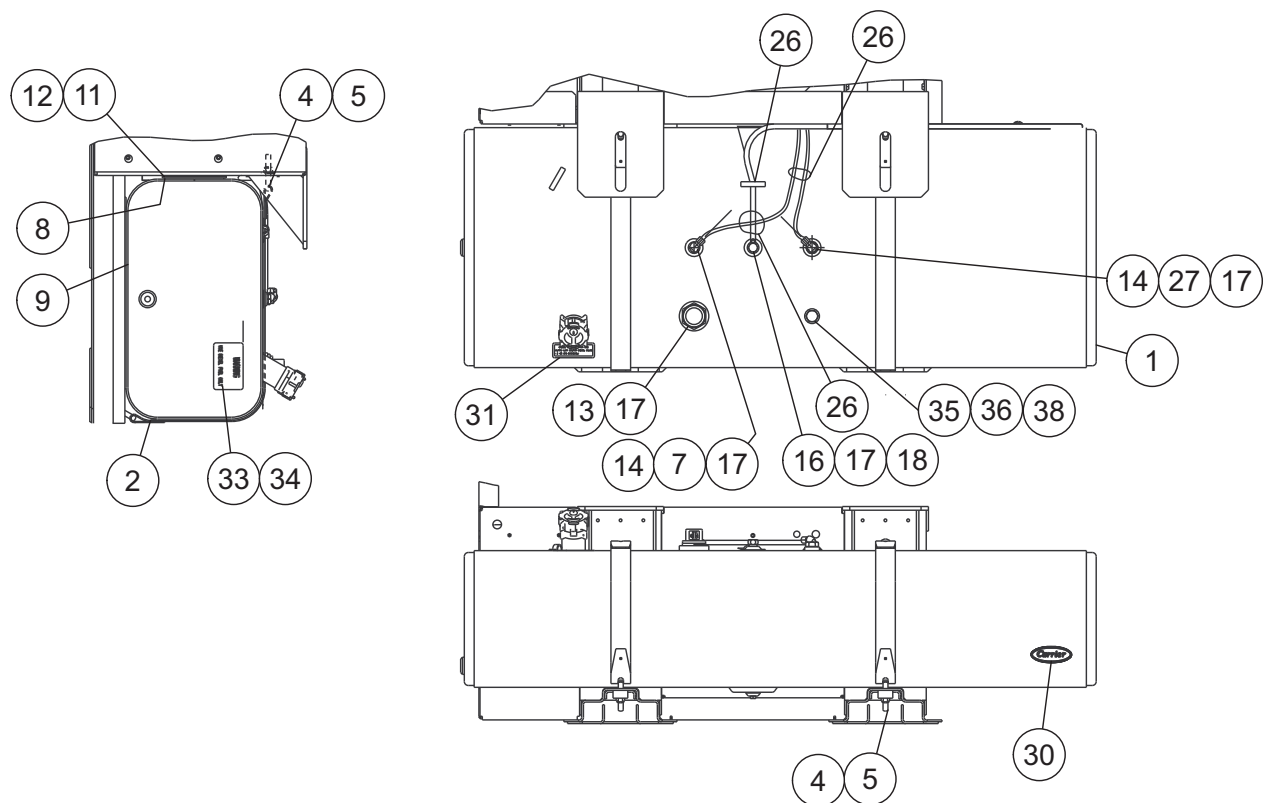
4	68-19334-00	Plate, Retainer	1
7	30-00579-20	Fuel Heater with O-Ring and Screws	1
8	30-00579-50	Fuel Filter Element Kit, Includes: Filter Element, O-Ring, Gasket	1
9	30-00601-50	Fuel Filter Bowl Assembly, Includes: Filter Element, O-Ring, Gasket	1
10	30-00601-51	Fuel Filter Head Assembly, Includes: Bowl, Float Ring, Drain Valve, O-Ring, Gasket	1
11	30-00601-00	Fuel Filter Assembly with Heater	1
12	30-01108-04SV	Fuel Pump	1
21	40-00345-02	Connector	1
22	40-00345-06	Connector, Fem	1
23	40-00420-01	Fitting, Hose	1
24	40-00420-04	Fitting, Hose	1
26	40-00739-03	Fitting, Hose	2
31	58-01390-00	Tube, Fuel	51.6 in
32	58-01391-00	Tube, Fuel	56.5 in
33	58-00658-03	Hose, Fuel	2
34	58-00658-13	Hose, Fuel	1
35	58-00658-09	Hose, Fuel	1
41	34-00655-05	Screw, Cap Hxhd	2
42	34-00807-08	Screw, Cap Hxhd	6
43	34-00807-12	Screw, Cap Hxhd	2
44	34-00304-18	Screw, Cap Hxhd	2
45	34-00655-08	Screw, Cap Hxhd	2
51	34-00662-11	Washer, Plain	6
52	34-00662-13	Washer, Plain	10
53	34-00663-11	Washer, Lock	4
54	34-00663-13	Washer, Lock	10
61	34-00667-11	Nut, Self Lock	2
71	58-00849-17	Tube, Slit	1
81	44-00045-25	Clamp, Hose	8
82	34-00373-59	Clamp, Tube	1
83	44-00102-56	Clamp, Cushioned	2
84	44-00102-57	Clamp, Cushioned	1
92	44-00317-00	Clip	1
93	58-00079-02	Sta-Strap	6
95	58-05100-00	Sta-Strap	6
96	44-60150-02	Clip, Harness Retainer	1
101	58-00065-46	Grommet	1
102	58-00065-76	Grommet	1
120	30-01108-20	Fuel Pump - Filter	1
121	30-01108-22	Fuel Pump - Gasket, Bowl	1
122	30-01108-23	Fuel Pump - Bowl	1

6 Engine Fuel Tank - 50/65 Gallon Steel



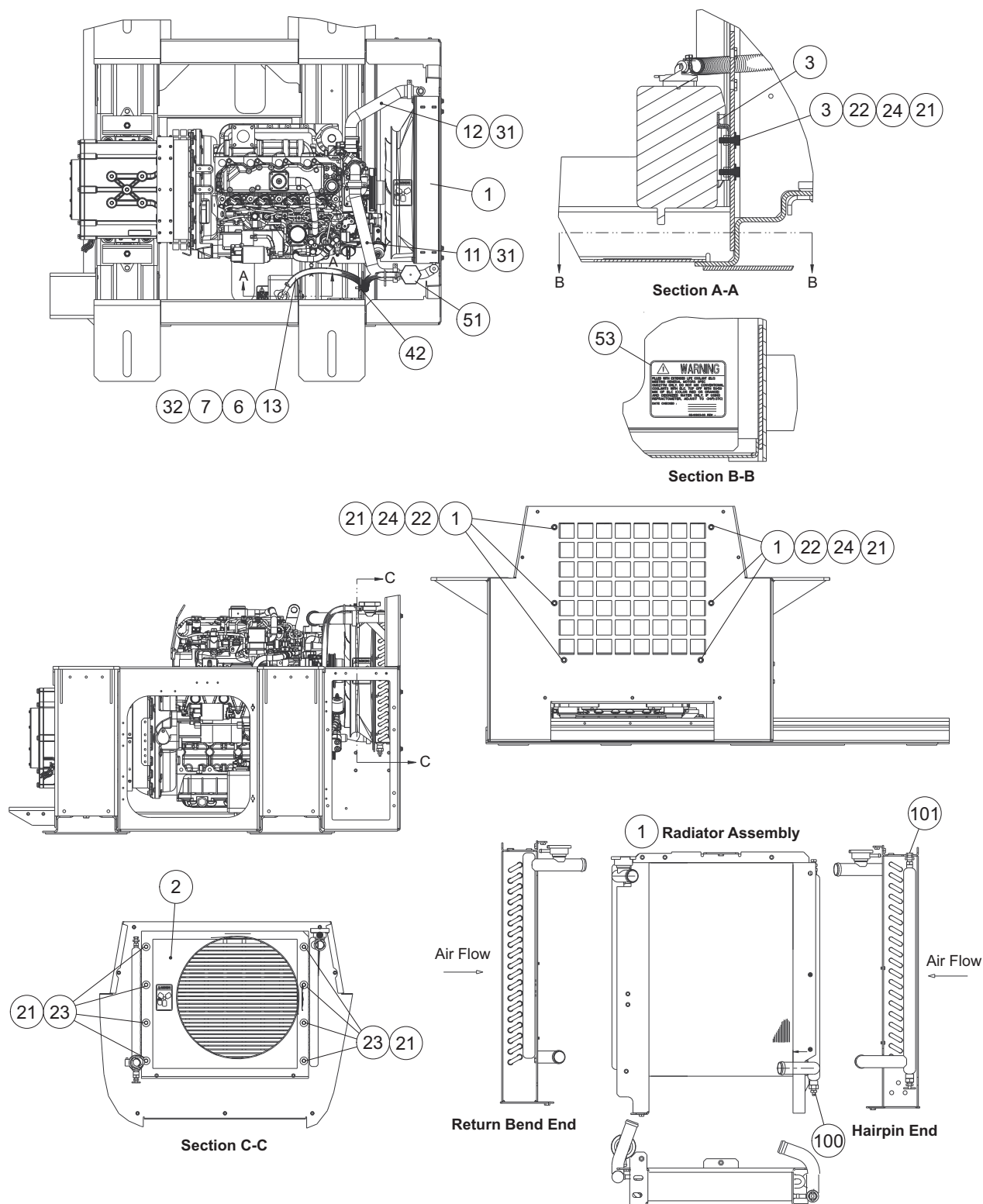
Item	Part Number	Description	Qty
1	65-01099-50	Tank Assembly, 50 Gallon Steel	1
	65-01099-65	Tank Assembly, 65 Gallon Steel	1
2	79-02495-00	Strap Assembly	2
4	34-00667-15	Nut, Self Lock	4
5	34-01333-00	Washer, Plain	4
7	40-00342-03	Elbow, Male	1
8	58-01183-14	Pad	2
9	58-01183-11	Pad	2
11	68-16152-00	Spacer	2
12	34-00928-14	Rivet, Blind	12
13	12-00747-11	Fuel Gauge	1
	12-00747-06	Fuel Gauge, Dial Only	1
14	81-04093-00	Tube, Pickup	2
16	40-00697-00	Vent	1
18	58-04184-00	Hose, Fuel	3.375 ft
27	40-00342-01	Elbow, Male	1
30	62-60390-02	Decal, Carrier	1
31	62-02181-02	Decal, ULSD	1
33	62-10573-00	Label, Genset	1
34	62-10391-01	Label, Protective	1

7 Engine Fuel Tank - 80 Gallon Steel



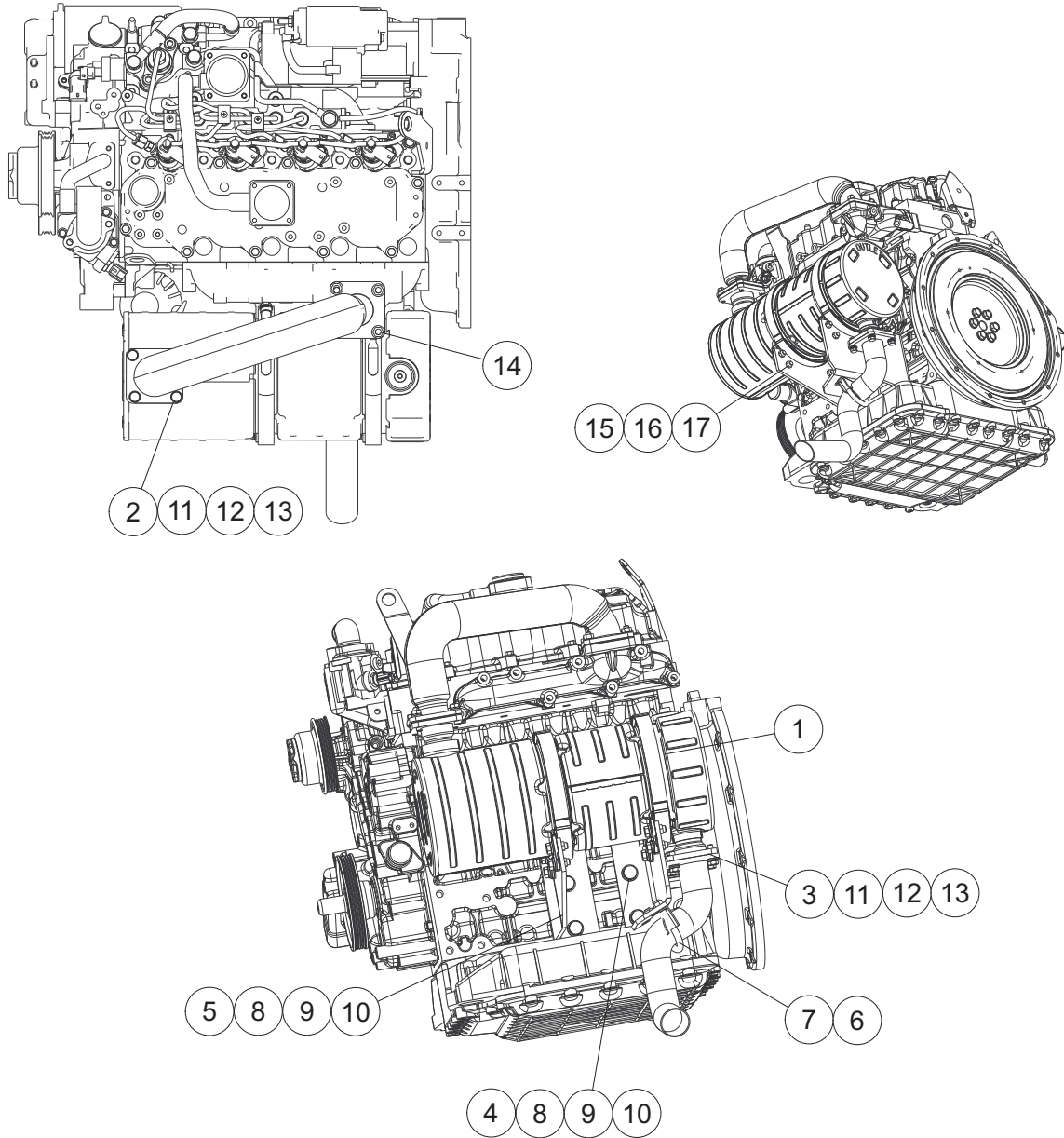
Item	Part Number	Description	Qty
1	65-01100-80	Tank Assembly, 80 Gallon Aluminum	1
2	79-02495-02	Strap Assembly	2
4	34-00667-15	Nut, Self Lock	4
5	34-01333-00	Washer, Plain	4
7	40-00342-03	Elbow, Male	1
8	58-01183-12	Pad	2
9	58-01183-13	Pad	2
11	68-14871-00	Spacer	2
12	34-00928-14	Rivet, Blind	8
13	12-00747-11	Fuel Gauge	1
	12-00747-06	Fuel Gauge, Dial Only	1
14	81-04093-00	Tube, Pickup	2
16	40-00697-00	Vent	1
18	58-04184-00	Hose, Fuel	4 ft
27	40-00342-01	Elbow, Male	1
30	62-60390-02	Decal, Carrier	1
31	62-02181-02	Decal, ULSD	1
33	62-10573-00	Label, Genset	1
34	62-10391-01	Label, Protective	1
35	48-00405-00	Plug, Hex Hd	1
36	--AU--51YA-012	Washer, Gasket	1

8 Engine Coolant System



8 Engine Coolant System			
Item	Part Number	Description	Qty
1	81-01379-00	Radiator Assembly	1
2	58-04585-00	Venturi	1
3	68-14126-01	Bracket, Hanger	1
6	58-00848-13	Tube, Slit	1
7	58-00079-02	Sta-Strap	2
11	58-04215-10	Hose, Formed	1
12	58-04784-10	Hose, Formed	1
13	58-04184-09	Hose, Fuel	1
21	66-U---1--5361-25	Screw, Cap Hxhd	16
22	66-U---1--5321-7	Washer, Plain	8
23	69NT--35--2692-1	Washer, Fender	8
24	--AU--11JR-171	Washer, Lock	8
31	--KA--69JM-824	Clamp, Hose	4
32	44-00388-00	Clamp, Hose	2
42	44-60150-03	Clip, Harness Retainer	1
51	30-00397-00	Cap, Radiator	1
53	62-10903-00	Label, Warning	1
100	40-00117-01	Drain Cock (included in Radiator Assembly)	1
101	40-00081-00	Air Vent (included in Radiator Assembly)	1

9 Exhaust System

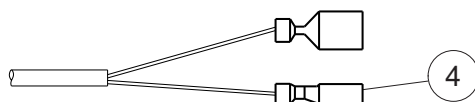
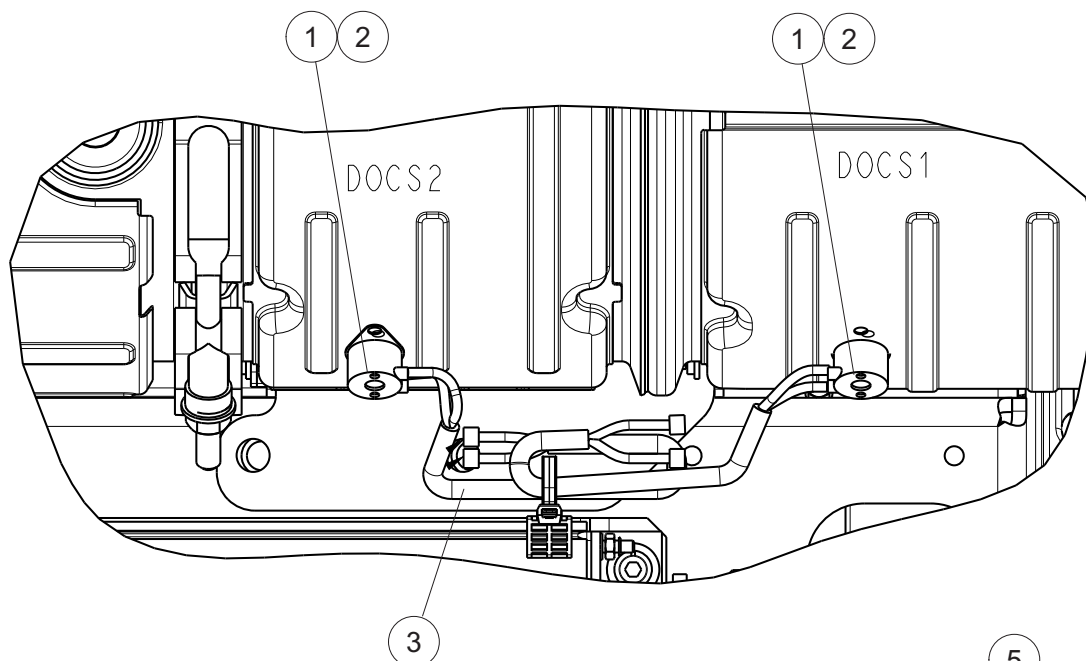


Item	Part Number	Description	Qty
1	30-00591-02	Diesel Oxidation Catalyst (DOC)	1
2	30-01176-00	Pipe, Exhaust	1
3	30-01177-00	Tube, Exhaust	1
4	68-08869-00	Bracket, Mounting	1
5	68-08818-01	Bracket, Mounting	1
6	34-00366-13	Washer, Plain	2
7	30-01052-00	Clamp, U-Bolt	1
8	34-01155-25	Screw, Cap Hxhd	4
9	34-01146-12	Washer, Lock	4
10	34-01151-12	Washer, Flat	4
11	34-01153-25	Screw, Cap Hxhd	8

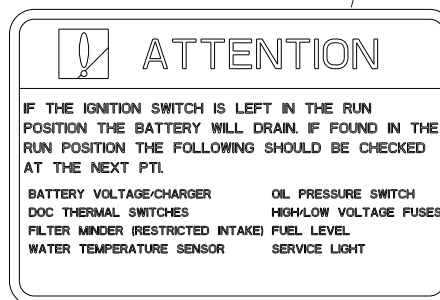
9 Exhaust System

12	34-01146-08	Washer, Lock	8
13	34-01151-08	Washer, Flat	8
14	34-01408-02	Nut, Flanged	4
15	34-00807-08	Screw, Cap Hxhd	8
16	34-00663-13	Washer, Lock	8
17	66-U---1--5321-5	Washer, Plain	8

Parts for the DOC Thermostat Assembly:

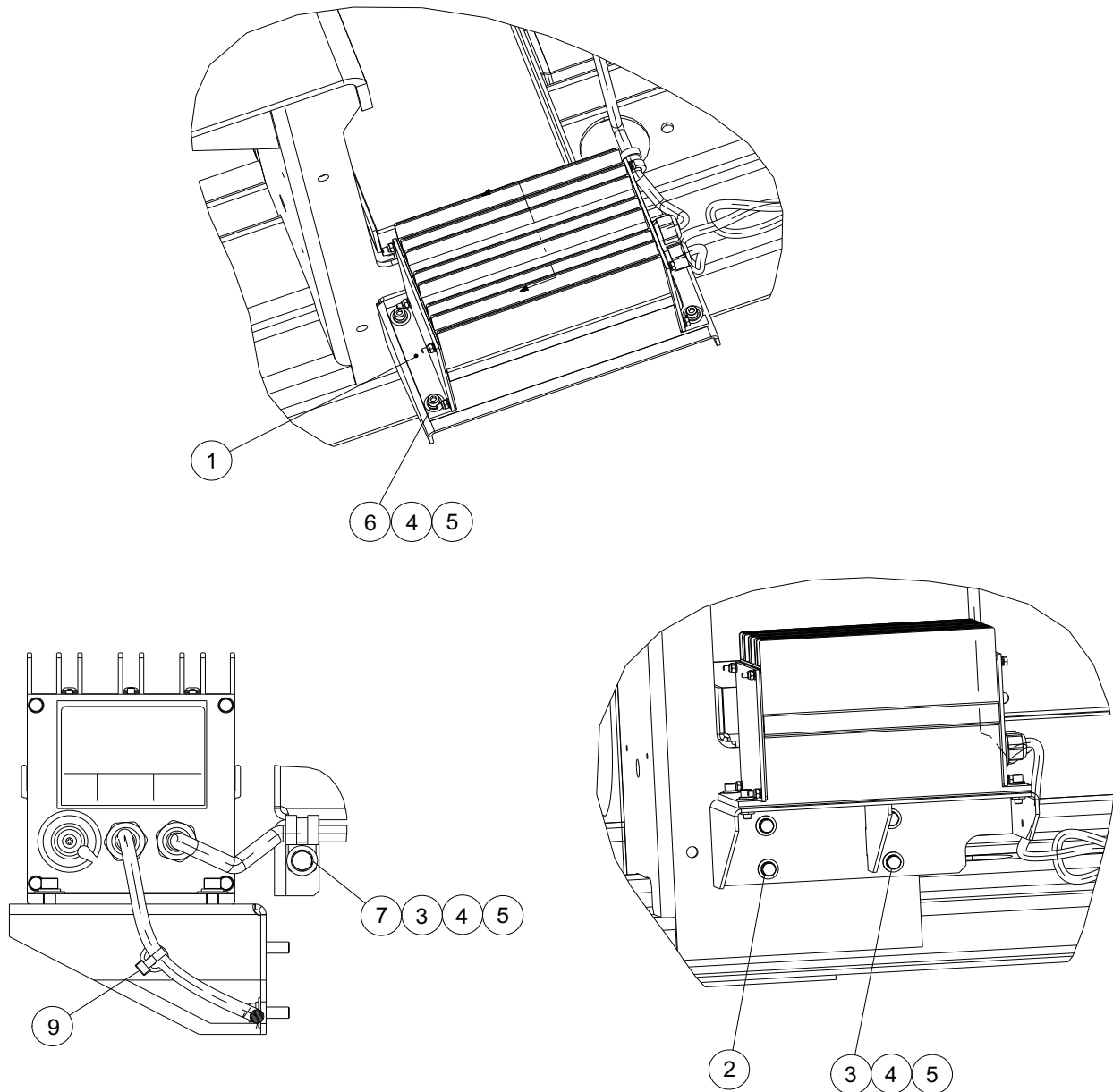


Note: Wire Harness does not include male terminal



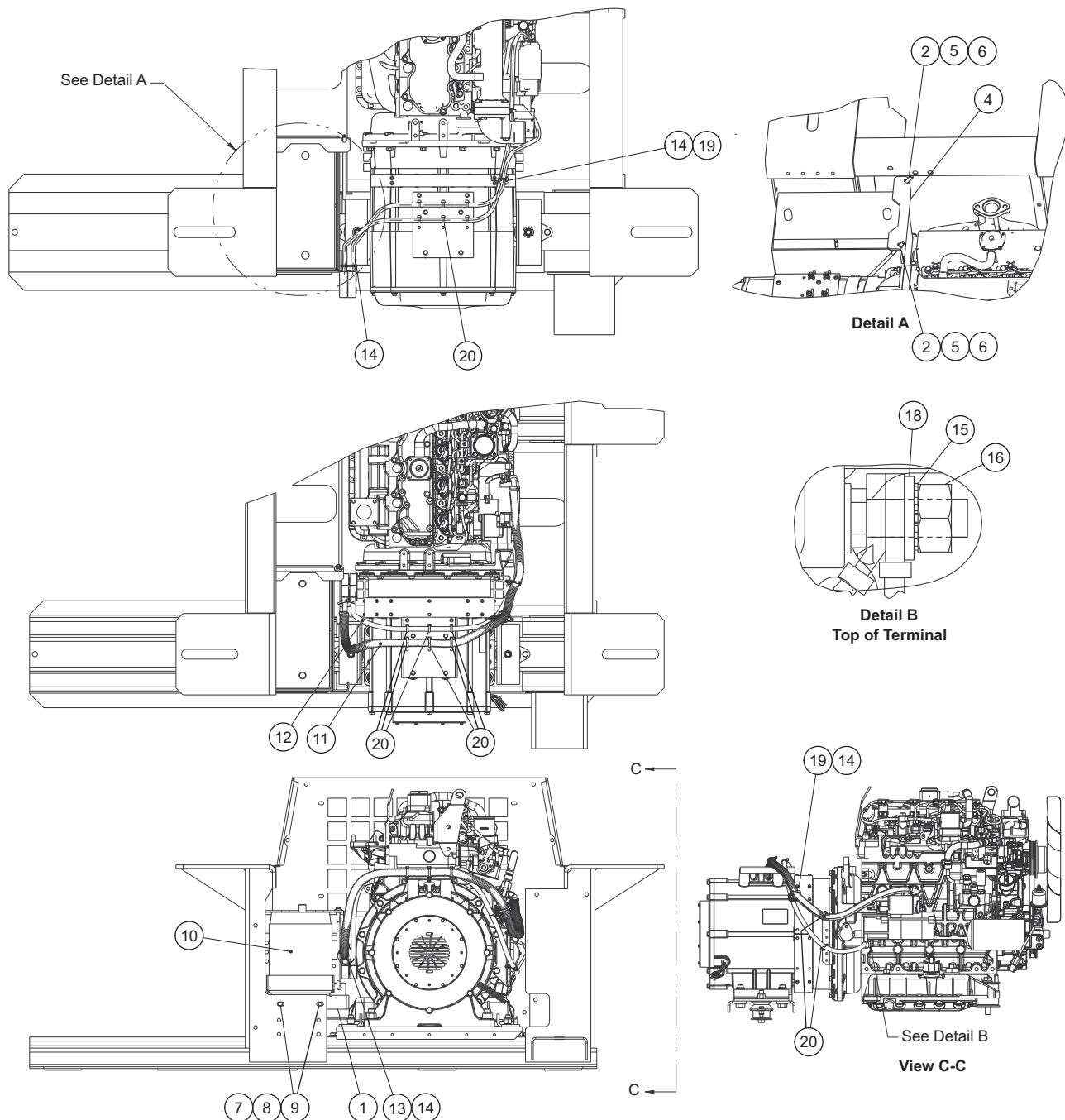
Item	Part Number	Description	Qty
1	12-00954-00	Thermal Switch	2
2	34-00928-01	Rivet	4
3	22-04668-01	Wire Harness	1
4	22-01502-01	Male Spade Terminal	1
5	62-12430-00	Attention Label	1

10 Battery Charger



Item	Part Number	Description	Qty
1	30-00460-06	Battery Charger	1
2	86-04928-01	Bracket	1
3	34-00655-06	Screw, Cap HxHd	5
4	34-00662-11	Washer, Plain	9
5	34-00663-11	Washer, Lock	9
6	34-06014-12	Screw, Cap Skthd	4
7	34-00373-51	Clamp, Tube	1
9	58-05100-00	Sta-Strap	1

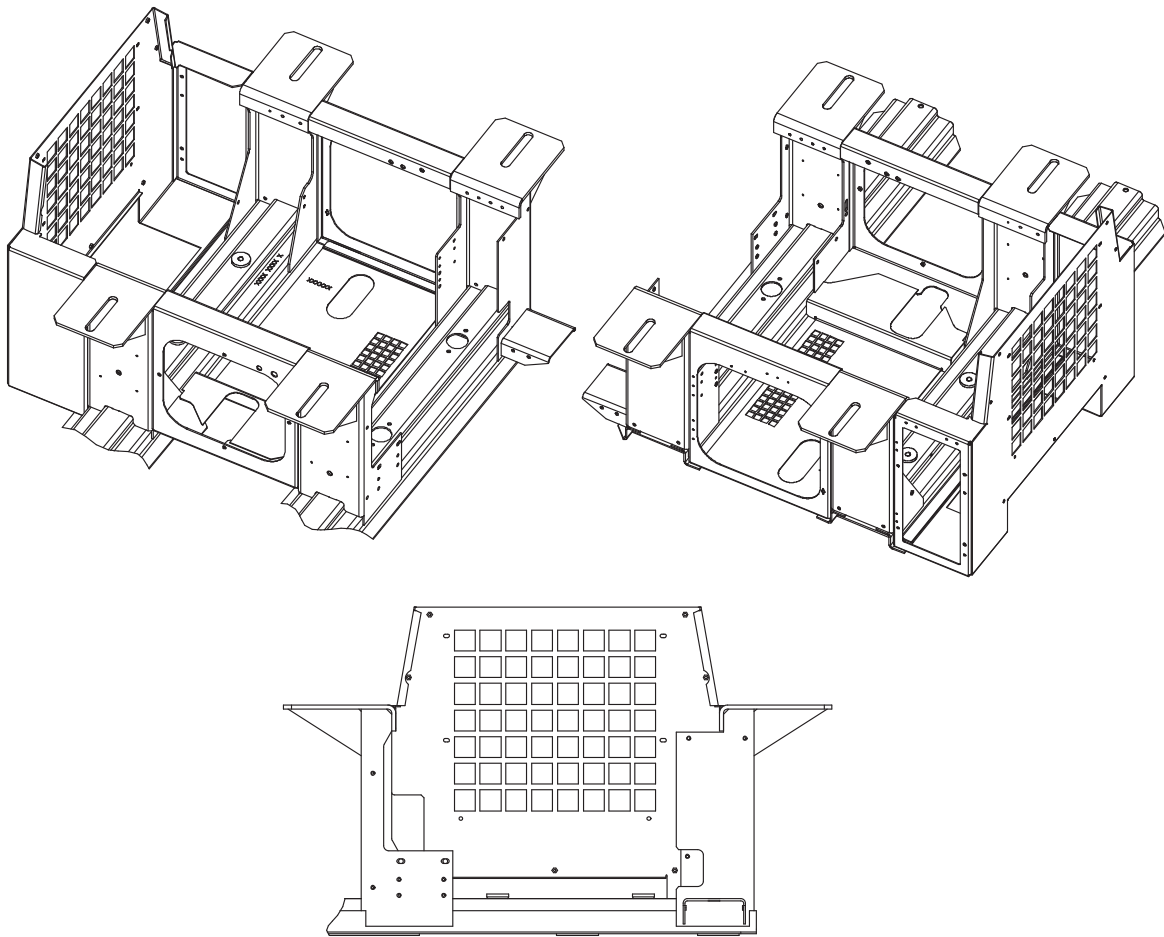
11 Battery Kit



Item	Part Number	Description	Qty
1	86-05031-00	Box Assembly, Weld	1
2	34-06247-06	J-Hook	2
4	68-17382-00	Angle, Hold Down	1
5	34-00667-12	Nut, Self Lock	2
6	34-00662-12	Washer, Plain	2
7	34-00807-08	Screw, Cap Hxhd	4
8	34-00663-13	Washer, Lock	4
9	34-06212-14	Washer, Plain	4

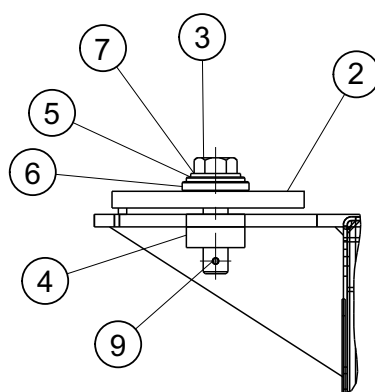
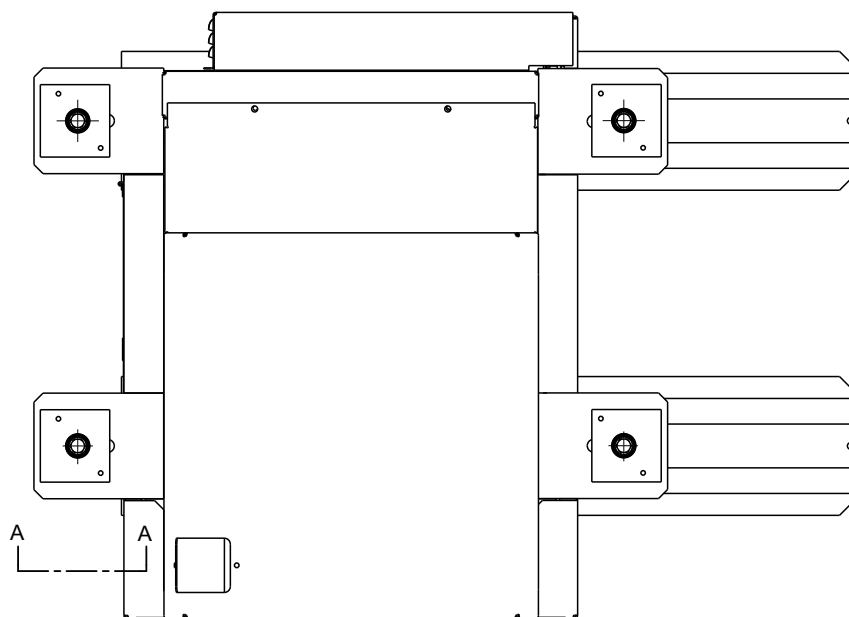
11 Battery Kit			
10	30-00358-02	Battery	1
11	22-01633-100	Cable, Battery	1
12	22-01633-89	Cable, Battery	1
14	58-00079-02	Sta-Strap	3
15	34-00372-43	Washer, Lock	1
16	34-06134-07	Nut, Hex	1
18	34-01151-10	Washer, Flat	1
19	58-01449-00	Swivel	1
20	58-05100-00	Sta-Strap	8

12 Frame Assembly



Item	Part Number	Description	Qty
	86-04831-08	Frame Assembly, 50/65 Gallon Tank	1
	86-04831-11	Frame Assembly, 80 Gallon Tank	1

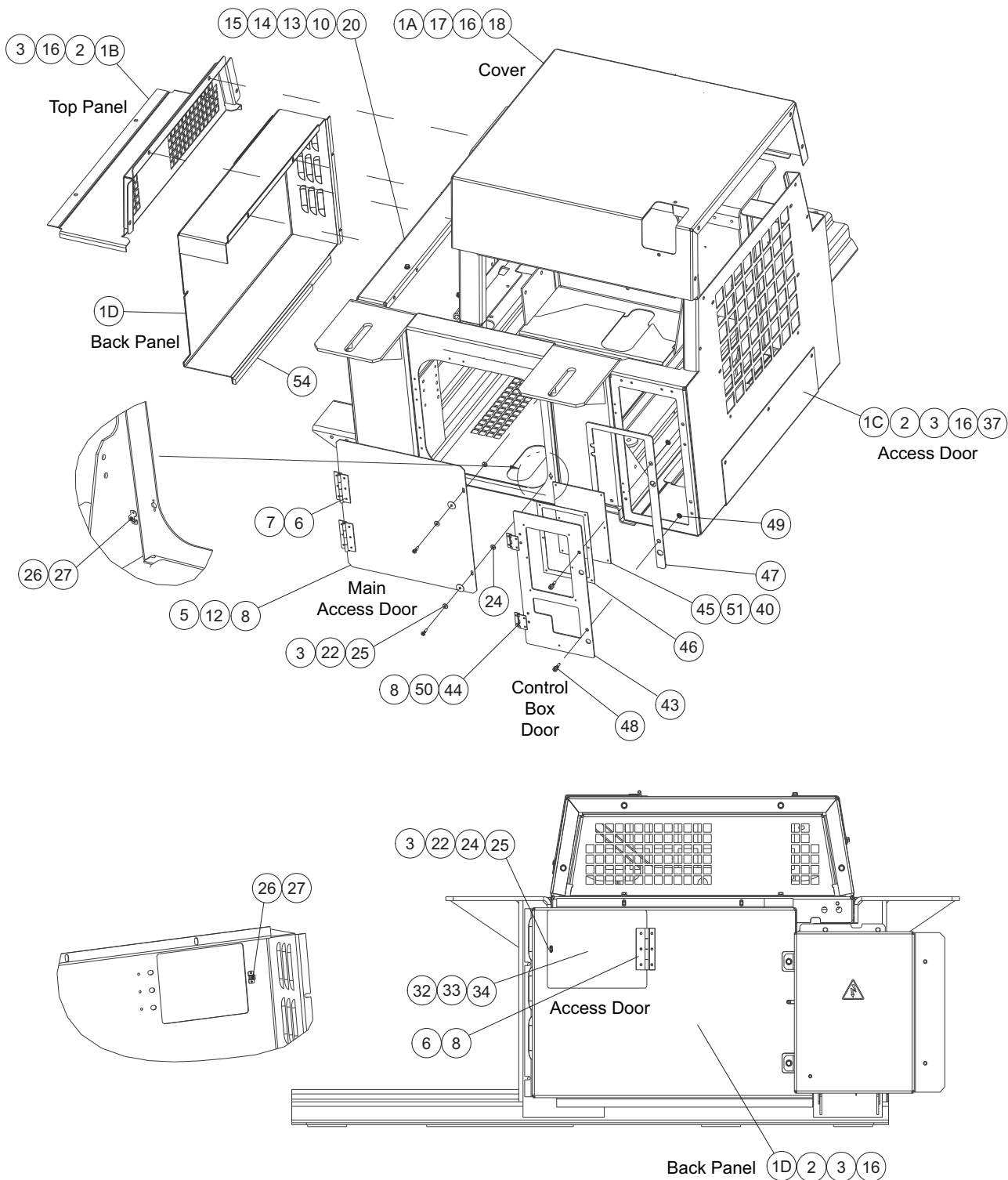
13 Mounting Kit



View A-A

Item	Part Number	Description	Qty
2	68-11862-01	Plate, Mounting	4
3	34-06151-02	Bolt, Hxhd	4
4	34-06157-01	Nut, Tee	4
5	34-06158-02	Washer, Spherical	4
6	34-06158-22	Washer, Spherical	4
7	34-06159-50	Washer, Special	4
9	34-06026-02	Rollpin	4

14 Skins Kit, Left Hinged Main Access Door



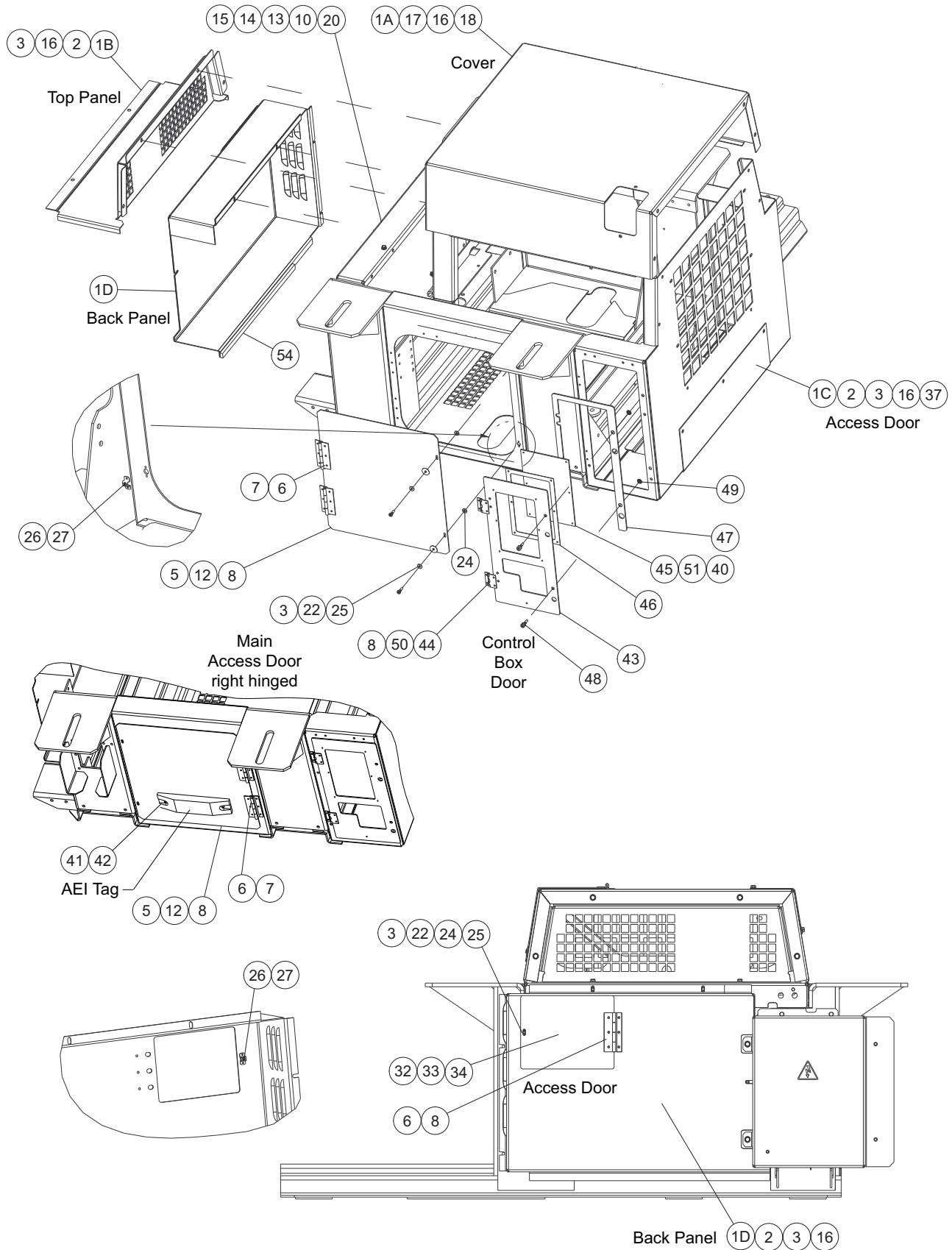
14 Skins Kit, Left Hinged Main Access Door

Item	Part Number	Description	Qty
1	79-02421-00	Bracket Kit - Includes items A, B, C, D:	
1A	68-14535-00	Cover, Engine 0.90 Thick Aluminum	1
16	--AU--11JR-171	Washer, Lock	8
17	34-06003-08	Screw, Cap Hxhd	8
18	66-U---1--5321-7	Washer, Plain	8
1B	68-15522-01	Panel, Top 0.90 Thick Aluminum	1
2	34-00655-06	Screw, Cap Hxhd	2
3	34-00662-11	Washer, Plain	2
16	--AU--11JR-171	Washer, Lock	2
1C	68-17019-01	Door, Access (Front) 0.90 Thick Aluminum	1
2	34-00655-06	Screw, Cap Hxhd	3
3	34-00662-11	Washer, Plain	3
16	--AU--11JR-171	Washer, Lock	3
37	66-U---1--2552	Gasket	1
1D	68-16776-01	Panel, Back 0.90 Thick Aluminum	1
2	34-00655-06	Screw, Cap Hxhd	5
3	34-00662-11	Washer, Plain	5
16	--AU--11JR-171	Washer, Lock	5
5	76-00663-17	Door, Main Access - Includes:	1
3	34-00662-11	Washer, Plain	2
5	68-16964-00	Door, Access	1
6	44-00352-01	Hinge	2
7	34-00928-14	Rivet, Blind	6
8	34-00928-13	Rivet, Blind	6
12	66-U---1--2552-173	Gasket	2
22	66-U---1--6811-12	Screw, Retaining	2
24	34-01226-00	Washer, Retaining	2
25	34-06053-03	Washer	2
10	86-04906-00	Channel, Support	1
13	34-00807-10	Screw, Cap Hxhd	4
14	66-U---1--5321-17	Washer, Plain	4
15	34-00663-13	Washer, Lock	4
20	68-14709-00	Spacer	3
26	34-01142-01	Receptacle	4
27	34-00928-02	Rivet, Blind	4

14 Skins Kit, Left Hinged Main Access Door

32	76-00663-18	Door, Access (Battery) - Includes:	1
3	34-00662-11	Washer, Plain	1
6	44-00352-01	Hinge	1
8	34-00928-13	Rivet, Blind	6
22	66-U---1--6811-12	Screw, Retaining	1
24	34-01226-00	Washer, Retaining	1
25	34-06053-03	Washer	1
32	68-12814-01	Door, Access (Battery)	1
33	42-00174-42	Gasket	2
34	42-00174-43	Gasket	2
43	79-01795-01	Door, Control Box - Includes:	1
8	34-00928-13	Rivet, Blind	4
40	--AU--53VA-061	Washer, Gasket	6
43	68-13439-02	Door	1
44	44-00399-01	Hinge	2
45	58-04428-00	Panel	1
46	42-00483-00	Gasket	1
47	42-00484-00	Gasket	1
48	66-U---1--6811-8	Screw, Retaining	2
49	34-06169-00	Washer, Retaining	2
50	66-U---1--5371-9	Screw, Mach Hxhd	4
51	34-00928-05	Rivet, Blind	6
54	42-00269-11	Gasket	1

15 Skins Kit , Right Hinged



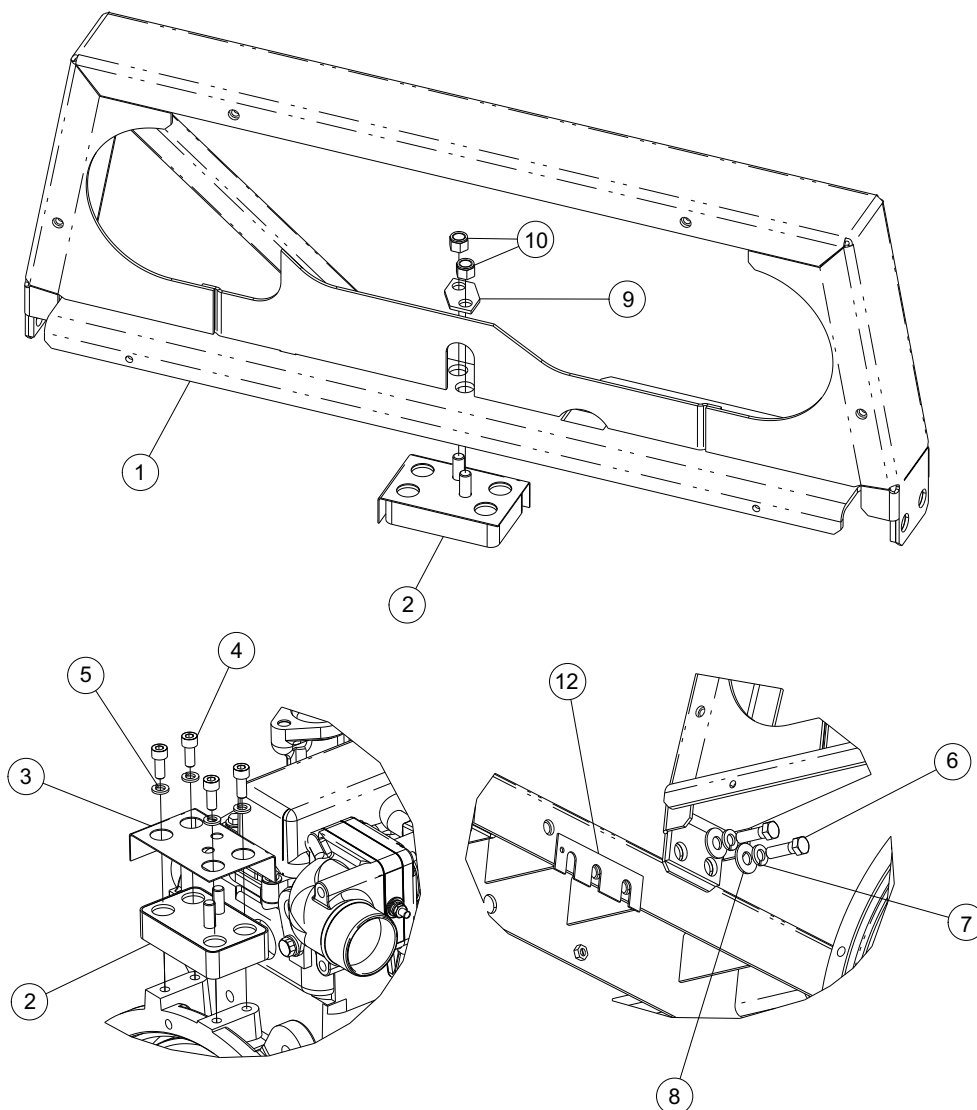
15 Skins Kit , Right Hinged

Item	Part Number	Description	Qty
1	79-02421-03	Bracket Kit - Includes items A, B, C, D:	
1A	68-14535-00	Cover, Engine 0.90 Thick Aluminum	1
16	--AU--11JR-171	Washer, Lock	8
17	34-06003-08	Screw, Cap Hxhd	8
18	66-U---1--5321-7	Washer, Plain	8
1B	68-15522-01	Panel, Top 0.90 Thick Aluminum	1
2	34-00655-06	Screw, Cap Hxhd	2
3	34-00662-11	Washer, Plain	2
16	--AU--11JR-171	Washer, Lock	2
1C	68-17019-01	Door, Access (Front) 0.90 Thick Aluminum	1
2	34-00655-06	Screw, Cap Hxhd	3
3	34-00662-11	Washer, Plain	3
16	--AU--11JR-171	Washer, Lock	3
37	66-U---1--2552	Gasket	1
1D	68-16776-03	Panel, Back 0.90 Thick Aluminum	1
2	34-00655-06	Screw, Cap Hxhd	5
3	34-00662-11	Washer, Plain	5
16	--AU--11JR-171	Washer, Lock	5
5	76-02102-05	Door, Main Access - Includes:	1
3	34-00662-11	Washer, Plain	2
5	68-16964-02	Door, Access	1
6	44-00352-01	Hinge	2
7	34-00928-14	Rivet, Blind	6
8	34-00928-13	Rivet, Blind	6
12	66-U---1--2552-173	Gasket	2
22	66-U---1--6811-12	Screw, Retaining	2
24	34-01226-00	Washer, Retaining	2
25	34-06053-03	Washer	2
10	86-04906-01	Channel, Support	1
13	34-00807-10	Screw, Cap Hxhd	4
14	66-U---1--5321-17	Washer, Plain	4
15	34-00663-13	Washer, Lock	4
20	68-14709-00	Spacer	3
26	34-01142-01	Receptacle	4
27	34-00928-02	Rivet, Blind	4

15 Skins Kit , Right Hinged

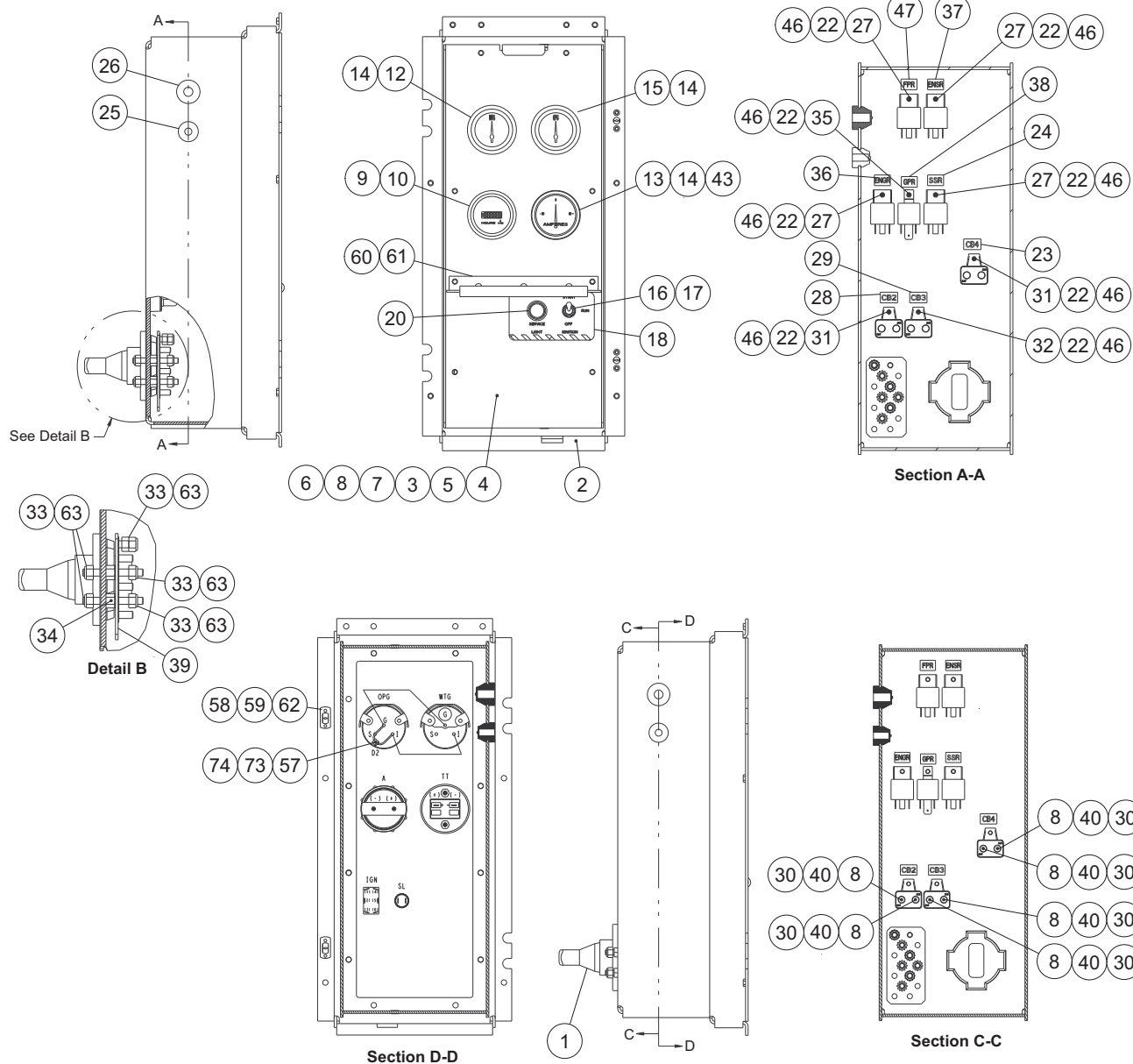
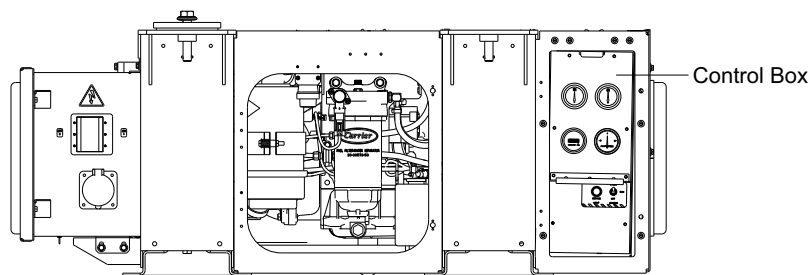
32	76-00663-18	Door, Access (Battery) - Includes:	1
3	34-00662-11	Washer, Plain	1
6	44-00352-01	Hinge	1
8	34-00928-13	Rivet, Blind	6
22	66-U---1--6811-12	Screw, Retaining	1
24	34-01226-00	Washer, Retaining	1
25	34-06053-03	Washer	1
32	68-12814-01	Door, Access (Battery)	1
33	42-00174-42	Gasket	2
34	42-00174-43	Gasket	2
41	34-00795-09	Nut, Self Lock	2
42	66-U---1--5321-8	Washer, Plain	2
43	79-01795-01	Door, Control Box - Includes:	1
8	34-00928-13	Rivet, Blind	4
40	--AU--53VA-061	Washer, Gasket	6
43	68-13439-02	Door	1
44	44-00399-01	Hinge	2
45	58-04428-00	Panel	1
46	42-00483-00	Gasket	1
47	42-00484-00	Gasket	1
48	66-U---1--6811-8	Screw, Retaining	2
49	34-06169-00	Washer, Retaining	2
50	66-U---1--5371-9	Screw, Mach Hxhd	4
51	34-00928-05	Rivet, Blind	6
54	42-00269-11	Gasket	1

16 Snubber Kit



Item	Part Number	Description	Qty
1	86-04687-00	Weld Assembly	1
2	73-00205-00	Shockmount	1
3	68-14812-00	Shield, Heat	1
4	34-06280-20	Screw, Cap	4
5	34-01146-08	Washer, Lock	4
6	34-00807-10	Screw, Cap Hxhd	4
7	34-00663-13	Washer, Lock	4
8	66-U---1--5321-17	Washer, Plain	4
9	68-14809-00	Nutplate	1
10	34-00667-13	Nut, Self Lock	2
12	68-14709-00	Spacer	3

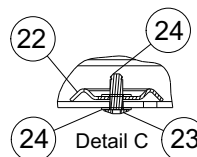
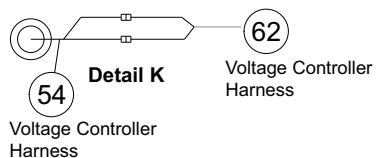
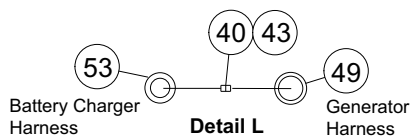
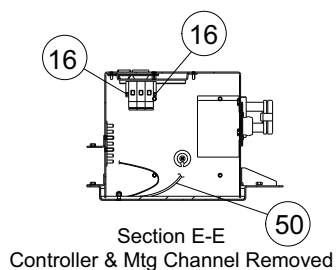
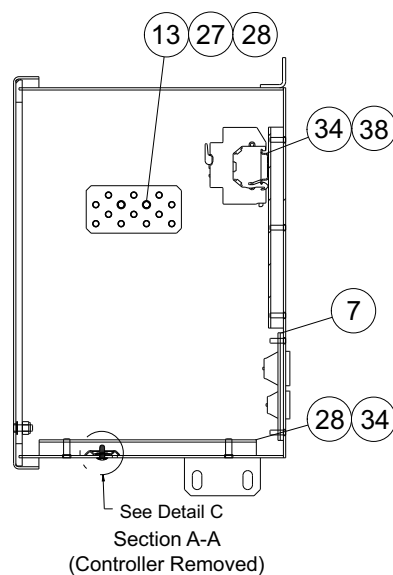
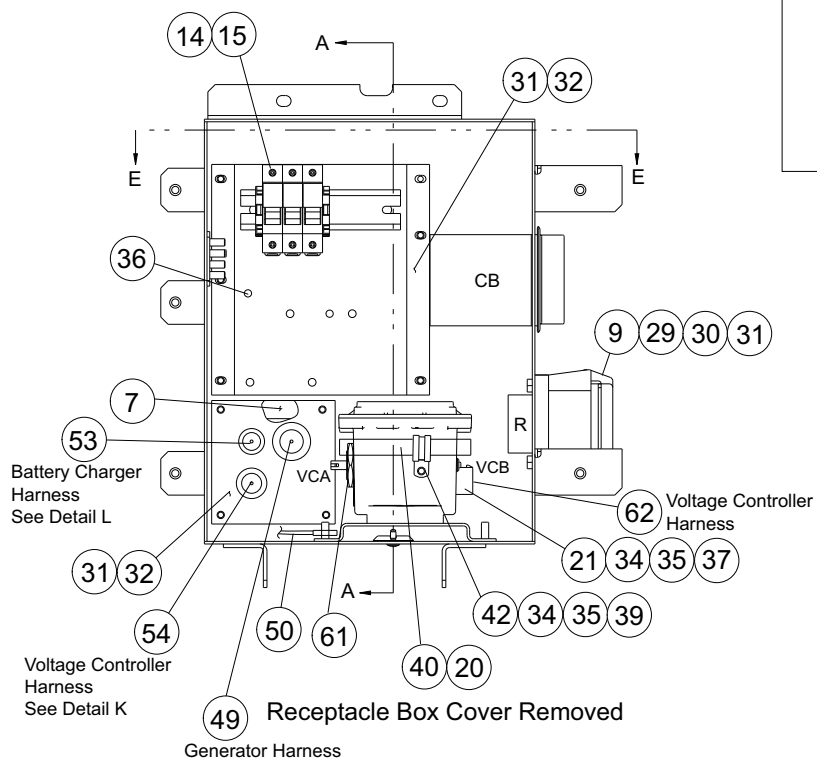
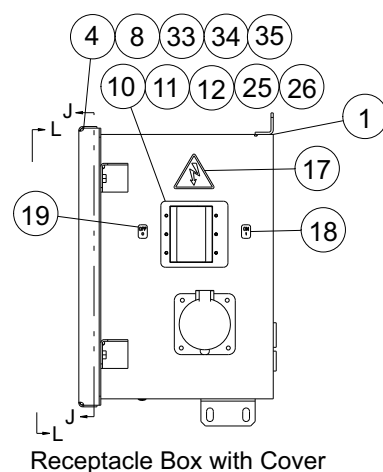
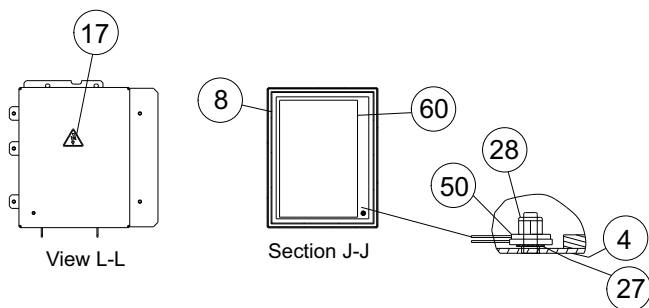
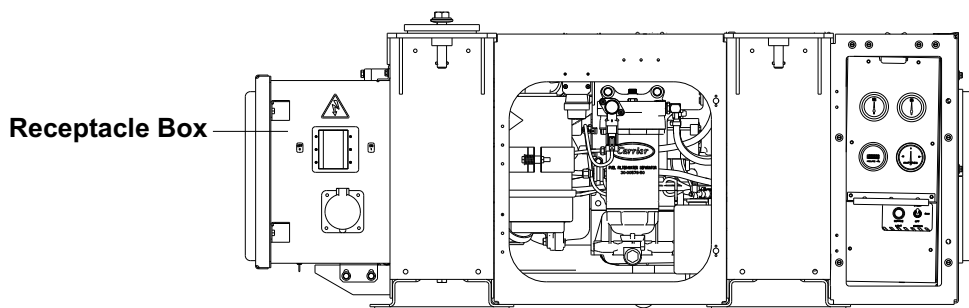
17 Control Box



Item	Part Number	Description	Qty
	91-01222-01	Control Box Assembly, Complete - Includes:	
1	22-03199-01	Wire Harness, Low Voltage	1
2	86-03341-01	Control Box Assembly, Weld	1
3	68-08838-00	Control Panel	1
4	42-00269-06	Gasket	2

17 Control Box			
5	42-00309-00	Gasket	2
6	66-U---1--5371-6	Screw, Mach Hxhd	8
7	66-U---1--5321-8	Washer, Plain	8
8	66-U---1--5331-3	Washer, Lock	14
9	10-00448-50	Hour Meter	1
10	58-01508-00	Gasket	1
12	12-00097-03	Water Temperature Gauge (WTG)	3
13	22-00538-01	Ammeter	1
14	--KK--71EW-223	O-Ring	3
15	66-U---1--2823	Oil Pressure Gauge (OPG)	1
16	10-01129-14	Ignition Switch (IGN)	1
17	42-00583-00	Seal	1
18	62-02669-05	Label, Engine Service Light & Ignition Switches	1
20	22-03218-00	Lamp Assembly, Engine Service Light (ESL)	1
22	66-U---1--5321-2	Washer, Plain	8
23	66CH---1--1002-4	Label, CB4	1
24	62-10530-32	Label, SSR	1
25	55-04842-02	Grommet	1
26	55-04842-03	Grommet	1
27	10-00286-03	Relay, 30 Amp (FPR, ENSR, ENGR, SSR)	4
28	66-U---1--3662-21	Label, CB2	1
29	66CH---1--1002-5	Label, CB3	1
30	58-01427-00	Cap	1
31	10-00171-12	Circuit Breaker, 30 Amp (CB2, CB4)	2
32	10-00171-13	Circuit Breaker, 50 Amp (CB3)	1
33	34-00667-11	Nut, Self Lock	9
34	66-U---1--9592-13	Standoff	2
35	10-00328-06	Relay, 70 Amp (GPR)	1
36	62-10530-58	Label, ENGR	1
37	62-10530-59	Label, ENSR	1
38	62-10530-60	Label, GPR	1
39	68-86230-02	Strap Assembly	1
40	--AT--39QA-132	Nut, Hex	6
41	58-00079-02	Sta-Strap	11
43	58-00836-13	Spacer	2
46	34-00667-08	Nut, Self Lock	8
47	62-10530-61	Label, FPR	1
57	22-01030-54	Diode Assembly	1
58	34-01159-02	Receptacle	2
59	34-00928-01	Rivet, Blind	4
60	68-13441-00	Shield	1
61	42-01096-01	Seal	1
62	58-04026-32	Protector	2
63	34-00372-41	Washer, Lock	9
73	22-02200-06	Washer, Plain	2
74	34-00667-07	Nut, Self Lock	2

18 Receptacle Box



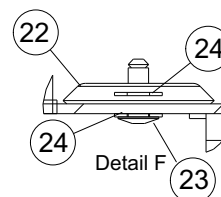
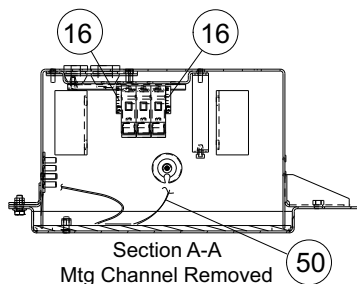
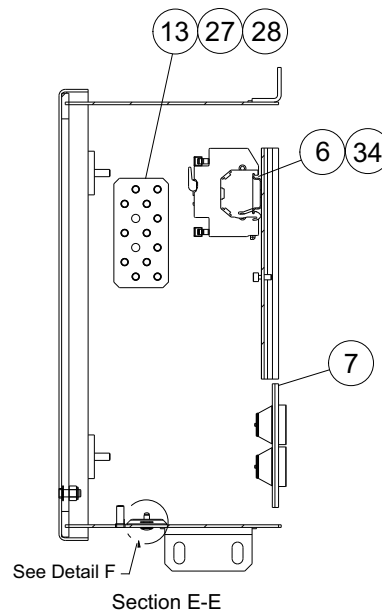
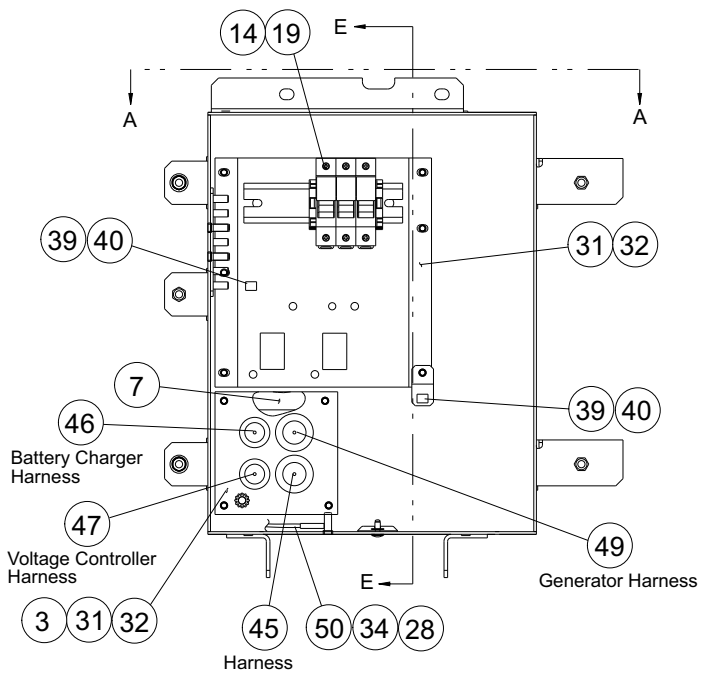
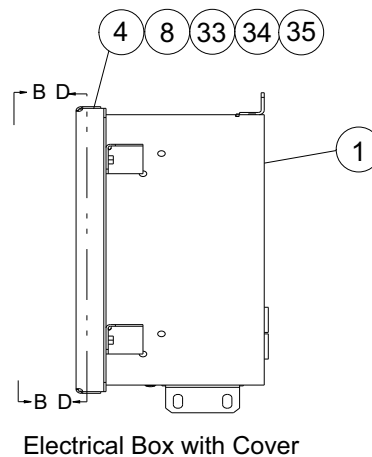
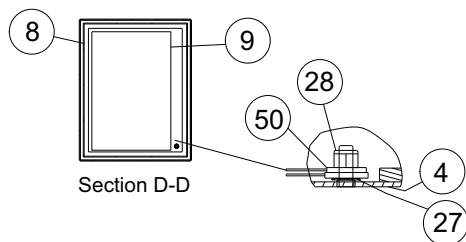
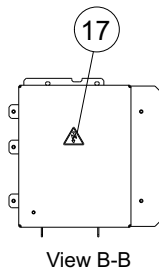
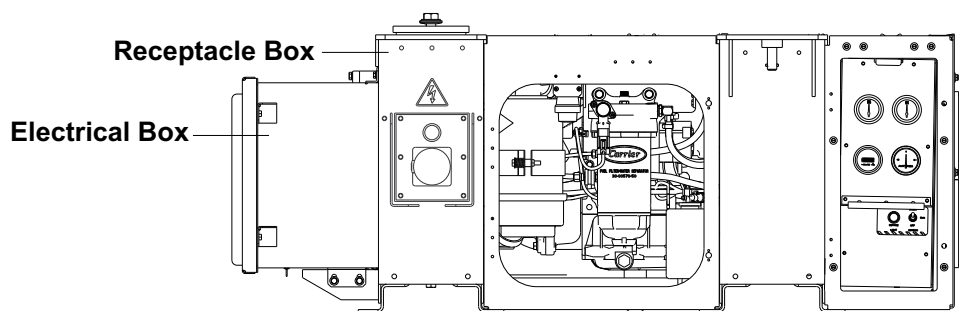
18 Receptacle Box

Item	Part Number	Description	Qty
	91-00488-01	Receptacle Box Assembly, Complete - Includes:	
1	86-04991-00	Receptacle Box	1
4	86-04941-00	Receptacle Box Cover	1
7	42-00751-00	Gasket	1
8	42-00752-00	Gasket	1
9	22-01679-00	Receptacle, 32 Amp	1
10	66-U---1--7842-11	Circuit Breaker (CB1)	1
11	66CH---1--1092-4	Boot, Frame	1
12	66-U---2--1391-1	Boot	1
13	68-86230-00	Strap Assembly	1
14	22-04178-10	Fuse Holder	1
15	22-01196-24	Fuse (VCF1, VCF2, BCF3)	3
16	22-04158-00	Stop	2
17	62-03957-04	Decal, Warning	2
18	62-02670-00	Label	1
19	62-02670-01	Label	1
20	58-00848-01	Tube, Slit	1
21	12-00707-04	Voltage Controller (VC)	1
22	58-00660-00	Washer	1
23	34-00928-13	Rivet, Blind	1
24	34-00829-09	Washer, Plain	2
25	66-U---1--7842-6	Nut, Hex	6
26	66-U---1--7842-7	Washer, Flat	12
27	34-00372-41	Washer, Lock	10
28	34-00667-11	Nut, Self Lock	14
29	66-U---1--5371-6	Screw, Mach Hxhd	4
30	66-U---1--5331-3	Washer, Lock	4
31	66-U---1--5321-8	Washer, Plain	14
32	34-00795-09	Nut, Self Lock	10
33	66-U---1--5361-25	Screw, Cap Hxhd	4
34	34-06212-12	Washer, Plain	15
35	--AU--11JR-171	Washer, Lock	9
36	58-05100-00	Sta-Strap	1
37	66-U---1--5361-47	Bolt, Mach Hxhd	4
38	34-00655-04	Screw, Cap Hxhd	2
39	34-00655-03	Screw, Cap Hxhd	1
40	58-00079-02	Sta-Strap	12
42	34-00373-07	Clamp, Tube	1
43	22-04183-06	Heat Shrink	1
49	22-04435-00	Wire Harness, High Voltage, Generator	1

18 Receptacle Box

50	44-00455-01	Cable	1
53	22-04436-00	Wire Harness, High Voltage, Battery Charger	1
54	22-04275-00	Wire Harness, Low Voltage, Voltage Controller	1
60	62-11963-00	Label, Schematic. See Section 24	1
61	22-04438-00	Wire Harness, High Voltage, Voltage Controller (VCA)	1
62	22-04437-00	Wire Harness, High Voltage, Voltage Controller (VCB)	1

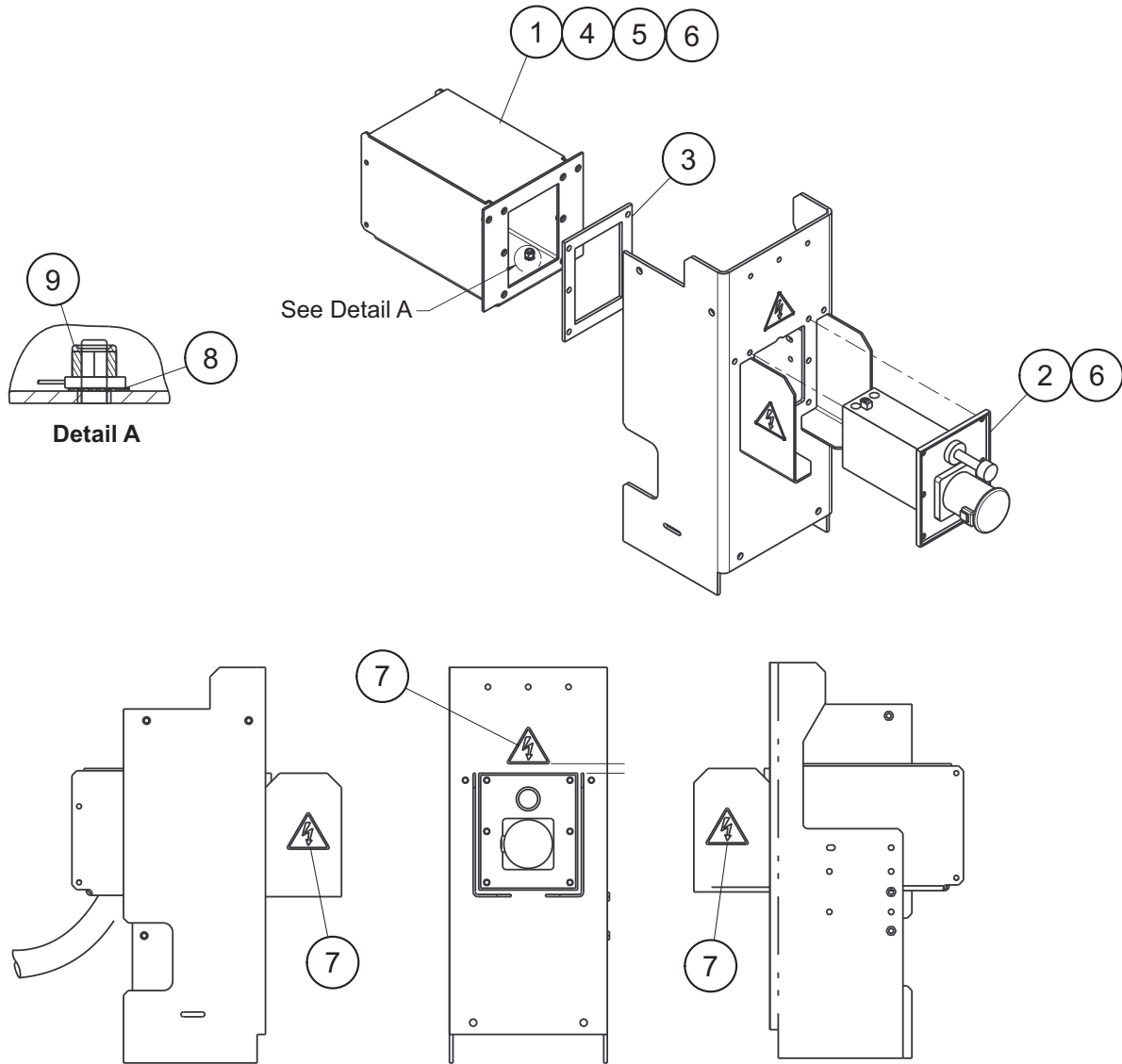
19 Electrical Box and Receptacle Box (PID UG2403)



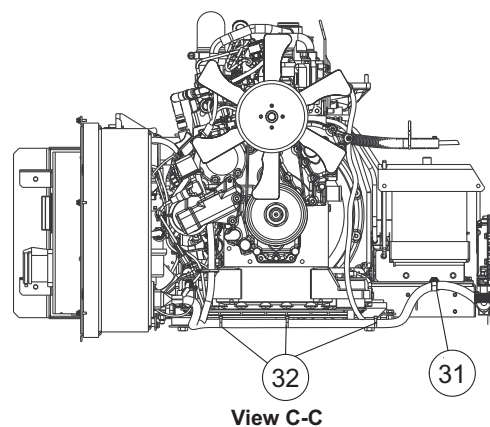
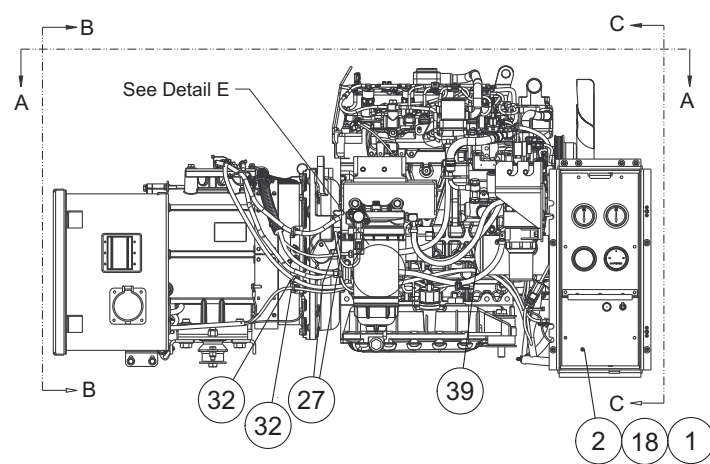
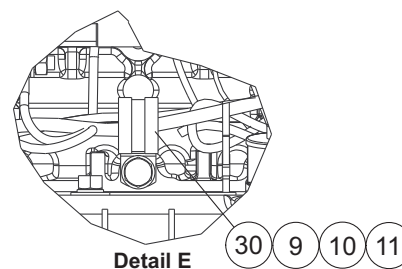
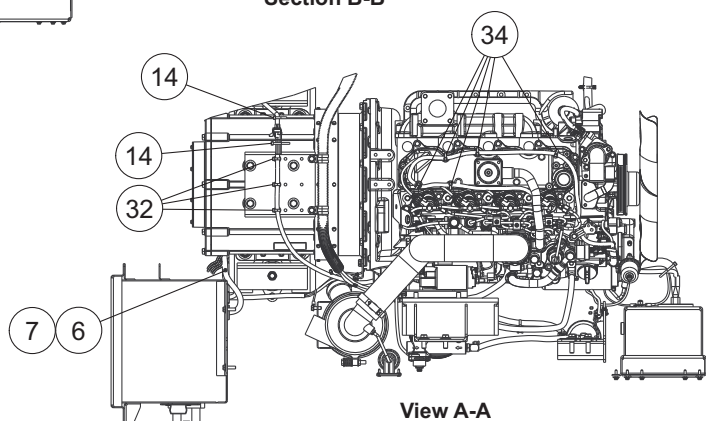
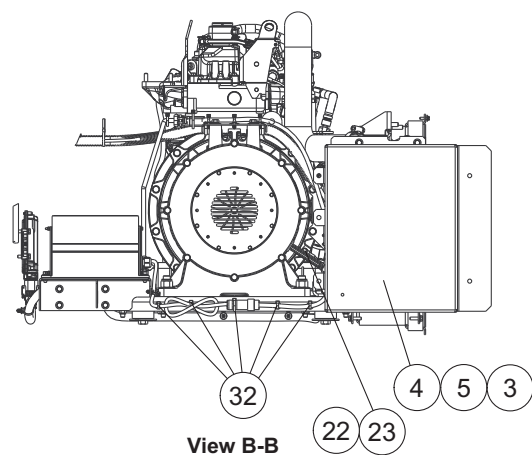
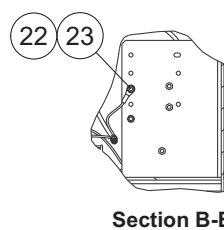
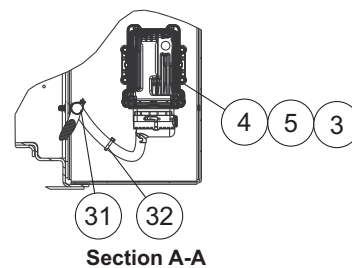
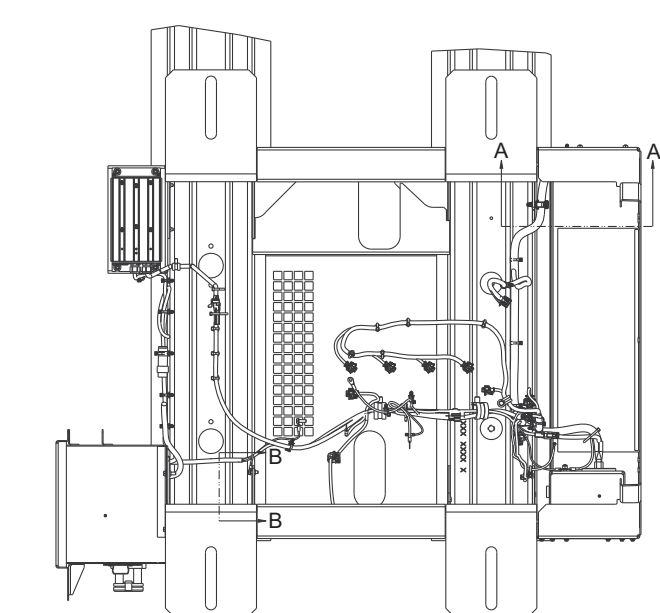
19 Electrical Box and Receptacle Box (PID UG2403)

Item	Part Number	Description	Qty
	91-01226-00	Electrical Box Assembly, Complete - Includes:	
1	86-03218-01	Electrical Box Assembly, Weld	1
3	68-16799-02	Plate	1
4	86-04941-00	Electrical Box Cover	1
6	68-15626-08	Rail	1
7	42-00751-00	Gasket	1
8	42-00752-00	Gasket	1
9	62-04308-00	Label, Schematic for High Voltage and Receptacle Box See Section 25	1
13	68-86230-00	Strap Assembly	1
14	22-04178-10	Fuse Holder	1
16	22-04158-00	Stop	2
17	62-03957-04	Decal, Warning	1
19	22-01196-24	Fuse (VCF1, VCF2, BCF3)	3
22	58-00660-00	Washer	1
23	34-00928-13	Rivet, Blind	1
24	34-00829-09	Washer, Plain	2
27	34-00372-41	Washer, Lock	11
28	34-00667-11	Nut, Self Lock	14
31	66-U---1--5321-8	Washer, Plain	4
32	34-00795-09	Nut, Self Lock	4
33	66-U---1--5361-25	Screw, Cap Hxhd	4
34	34-06212-12	Washer, Plain	7
35	--AU--11JR-171	Washer, Lock	4
39	58-01475-00	Mount, Wire Tie	4
40	66-U---1--3882	Wire Tie	9
43	22-04183-06	Heat Shrink	8 in
45	22-03211-00	Wire Harness, High Voltage - Electrical Box / Receptacle Box	1
46	22-03212-00	Wire Harness, High Voltage - Receptacle Box, Voltage Controller (VCA) and Battery Charger	1
47	22-03213-00	Wire Harness, Low Voltage - Receptacle Box, Voltage Controller (VCB)	1
49	22-03214-00	Wire Harness, High Voltage - Receptacle Box and Generator	1
50	44-00455-01	Cable	1

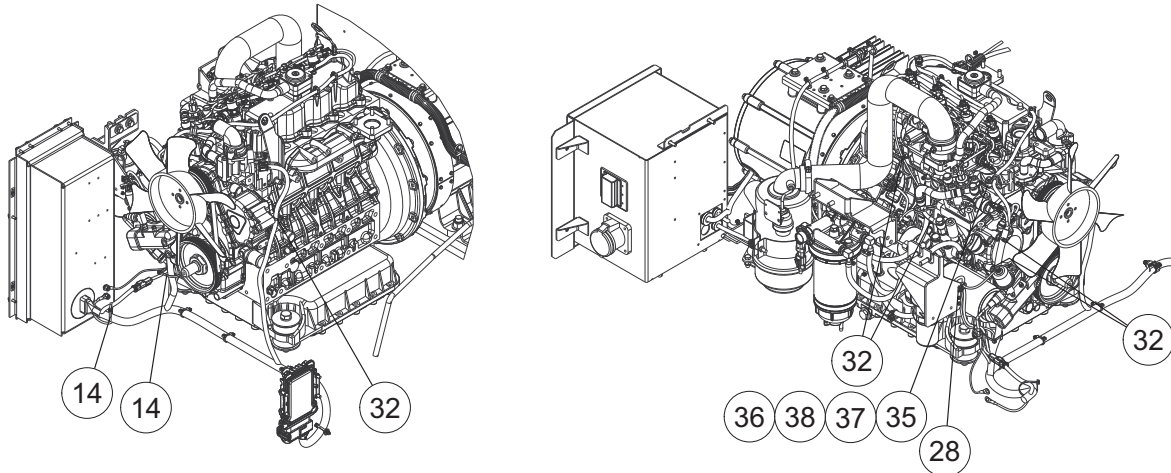
19 Electrical Box and Receptacle Box (PID UG2403)



Item	Part Number	Description	Qty
	91-00445-01	Receptacle Box Assembly Includes:	
1	86-03221-00	Box Assembly	1
2	22-01942-01	Receptacle, 460V Interlock	1
3	42-00508-00	Gasket	1
4	34-00662-11	Washer, Plain	2
5	34-00663-11	Washer, Lock	2
6	34-00655-08	Screw, Cap Hxhd	8
7	62-03957-01	Decal, High Voltage	3
8	34-00372-41	Washer, Lock	1
9	34-00667-11	Nut, Self Lock	1

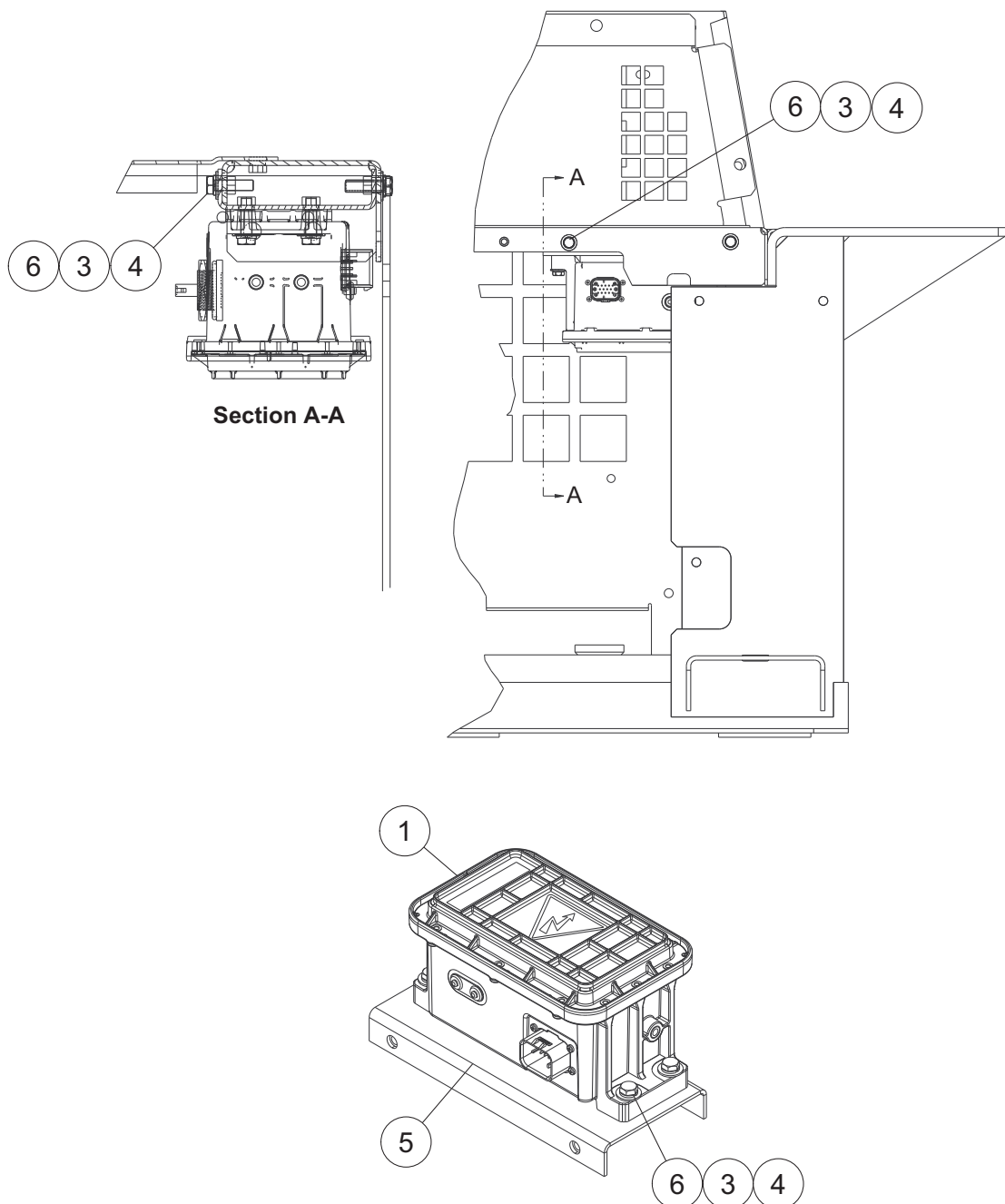


20 Voltage Kit



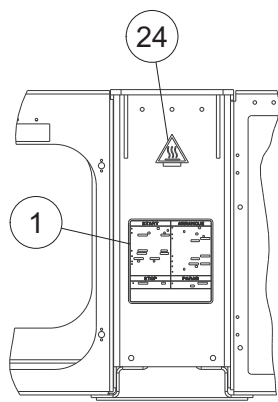
Item	Part Number	Description	Qty
1	66-U---1--5371-6	Screw, Mach Hxhd	8
2	34-01331-05	Washer	8
3	34-00655-08	Screw, Cap Hxhd	10
4	34-00662-11	Washer, Plain	10
5	34-00663-11	Washer, Lock	10
6	58-01303-01	Tube, Heatshrink	5
7	58-01303-02	Tube, Heatshrink	5
9	34-01151-12	Washer, Flat	A/R
10	34-01146-12	Washer, Lock	A/R
11	34-01155-25	Screw, Cap Hxhd	A/R
14	58-00079-02	Sta-Strap	6
18	66-U---1--5331-3	Washer, Lock	8
22	34-00655-06	Screw, Cap Hxhd	2
23	34-00372-41	Washer, Lock	2
27	44-60150-00	Clip, Harness Retainer	2
28	44-60150-02	Clip, Harness Retainer	1
30	44-00102-59	Clamp, Cushioned	A/R
31	58-05100-04	Sta-Strap	1
32	58-05100-00	Sta-Strap	A/R
34	58-05100-06	Sta-Strap	5
35	34-00373-05	Clamp, Tube	1
36	34-01341-25	Screw	1
37	34-01151-06	Washer, Flat	1
38	34-01146-06	Washer, Lock	1
39	58-05100-03	Sta-Strap	1

21 External Voltage Controller Kit

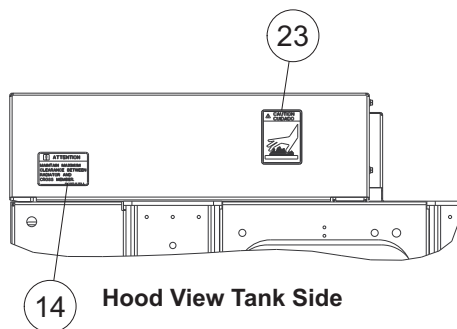
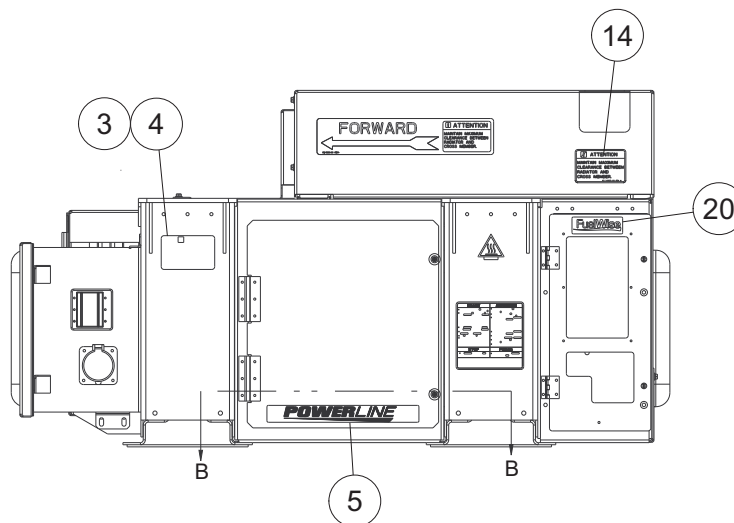


Item	Part Number	Description	Qty
1	12-00707-04	Controller	1
3	34-00663-11	Washer, Lock	8
4	34-00662-11	Washer, Plain	8
5	68-08460-00	Bracket	1
6	34-00655-08	Screw, Cap Hxhd	8

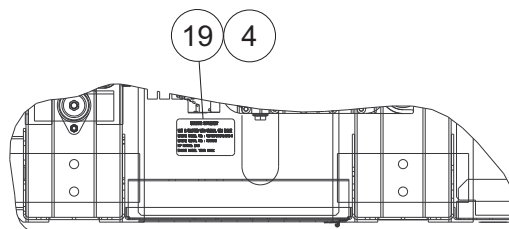
22 Labels and Decals



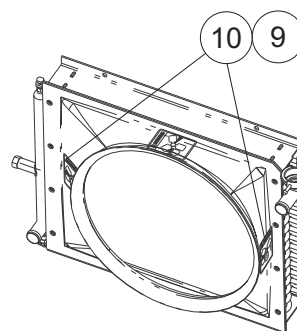
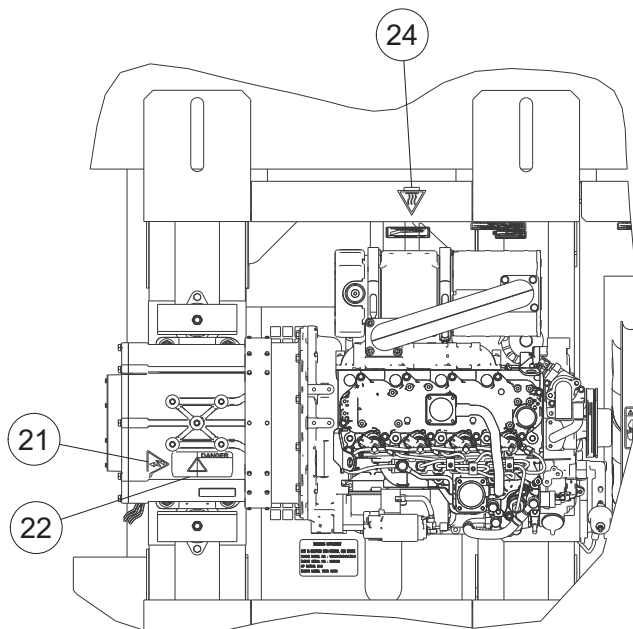
Roadside



Hood View Tank Side



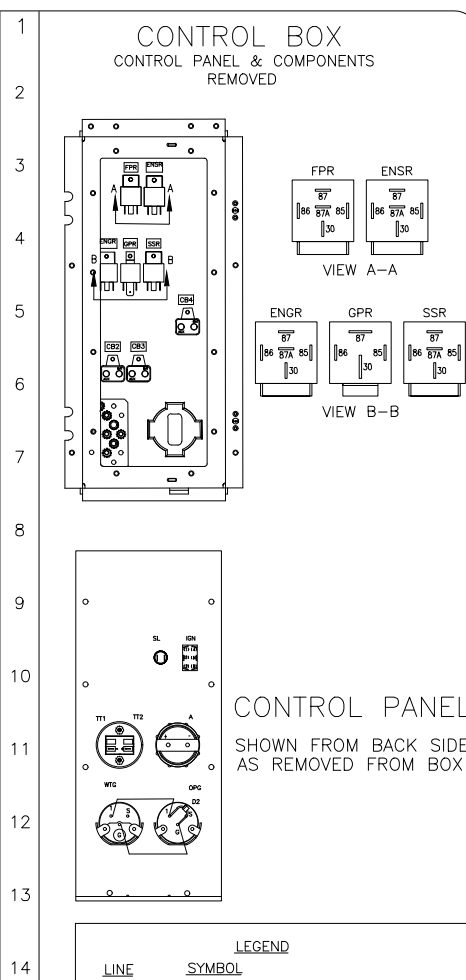
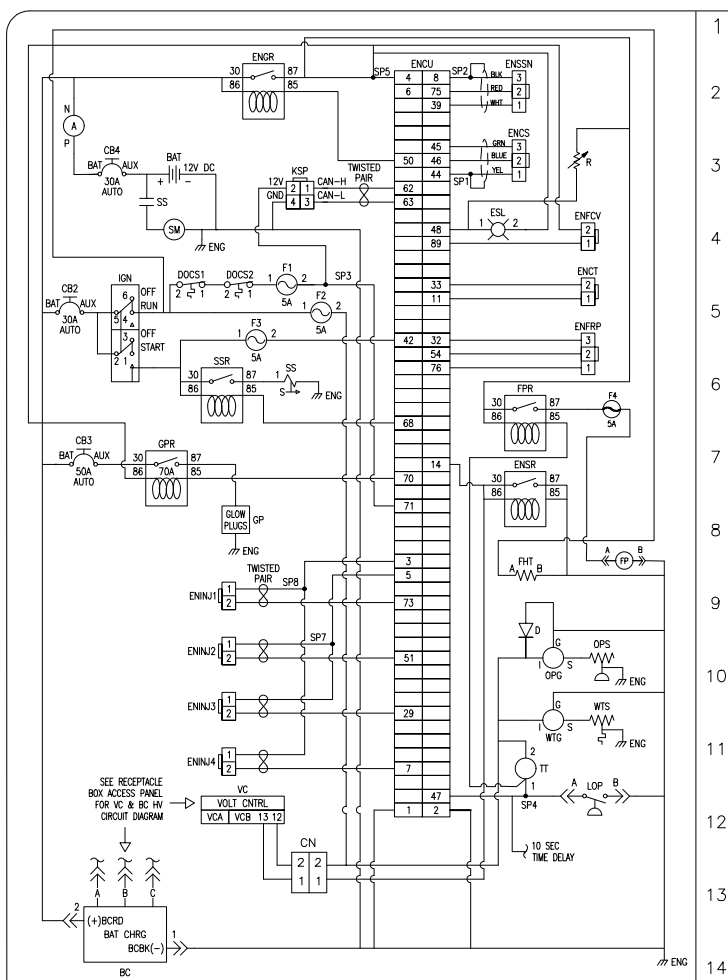
Section B-B



22 Labels and Decals

Item	Part Number	Description	Qty
1	62-02717-09	Label, Start/Stop	1
3	62-10572-00	Label, Genset	1
4	62-10391-01	Label, Protective	2
5	62-04191-00	Label, PowerLINE	1
10	62-02895-00	Label, Fan Warning	3
14	62-10925-00	Label, Attention	2
19	62-10572-10	Label, Emissions	1
20	62-11588-00	Label, FuelWise	1
21	62-03957-01	Decal, High Voltage	1
22	62-10358-00	Label, Danger	1
23	62-02972-00	Label, Hot Surface	1
24	62-03958-00	Decal, Warning Heat Hazard	2

23 Label, Schematic - Control Box, Control Panel and ENCU



FUEL SPECIFICATION	
WINTER	DIESEL NO. 1
SUMMER	DIESEL NO. 2
CETANE NO.:	F41
(IGNITION QUALITY)	

LUBE OIL SPECIFICATIONS
ANY BRAND OF OIL THAT
MEETS OR EXCEEDS
API CLASS STANDARD CK-4
MAY BE USED.

TEMPERATURE RANGE	SAE VISCOSITY DESIGNATION
0°F TO 45°F (-18°C TO 7°C)	10W30
45°F/7°C AND ABOVE	10W30 OR 15W40

INSTRUCTIONS FOR BLEEDING FUEL SYSTEM

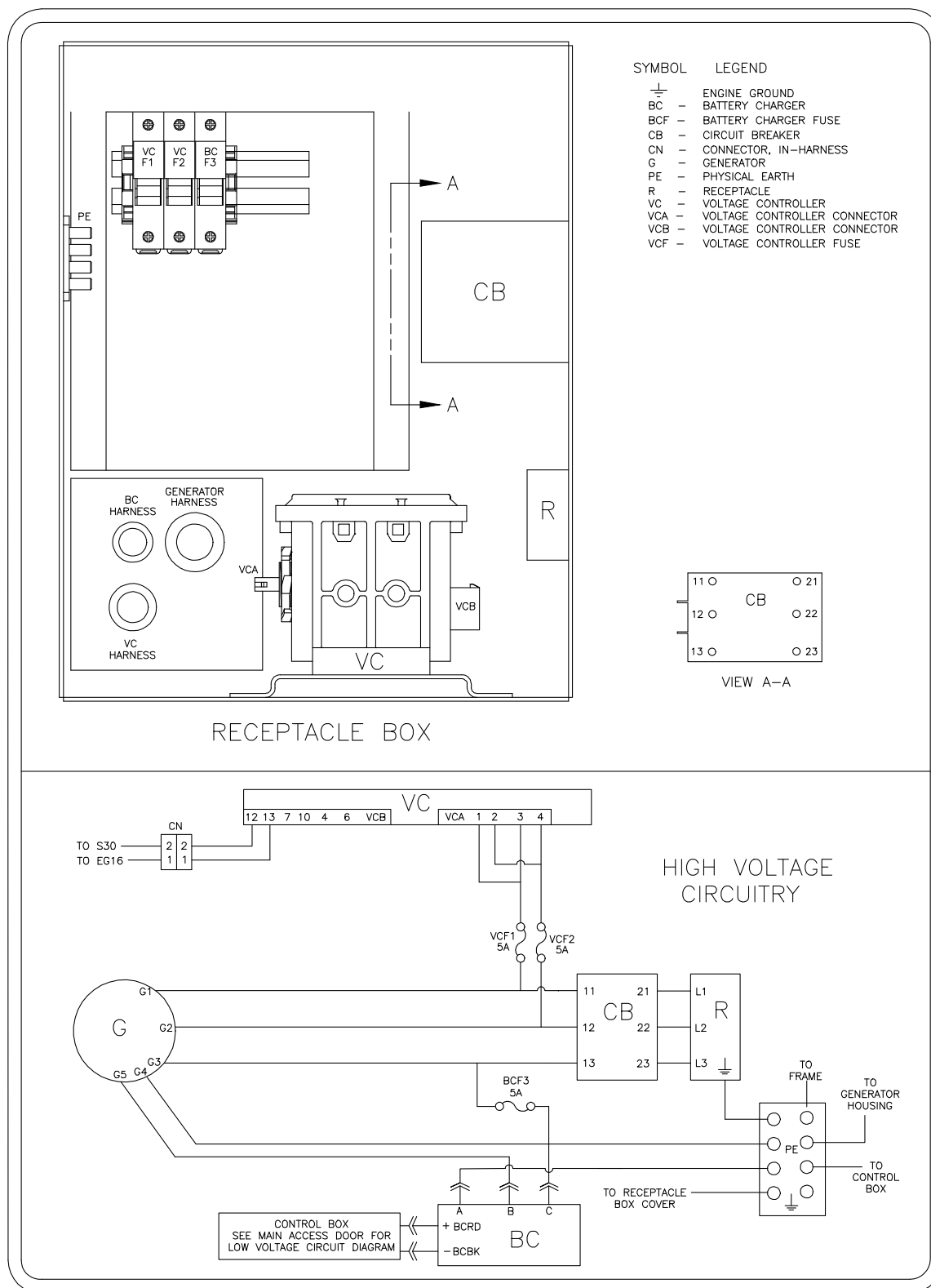
WHEN CHANGING FUEL FILTER,
OPENING FUEL LINES FOR ANY REASON,
OR IF SYSTEM HAS BEEN EMPTIED OF
FUEL, PROCEED AS FOLLOWS:

1. CHECK FUEL TANK FOR ADEQUATE FUEL
2. CHECK TIGHTNESS OF ALL FUEL AND FILTER CONNECTIONS.
3. OPERATE HAND PRIMER PUMP UNTIL PRESSURE INCREASES.
4. START ENGINE.
IF ENGINE DOES NOT START, REFER TO MAINTENANCE MANUAL.

		LEGEND	
LINE	SYMBOL		
2,4,6,8,9,10,14	⚡	—	ENGINE GROUND
2	A	—	AMMETER
3	BAT	—	BATTERY
14	BC	—	BATTERY CHARGER
3,5,7	CB	—	CIRCUIT BREAKER
13	CN	—	CONNECTOR, IN-HARNESS
9	CN	—	DIODE
4	DOCS1	—	DOC SWITCH 1
4	DOCS2	—	DOC SWITCH 2
4	ENC5	—	ENGINE CAMSHAFT SENSOR
4	ENCT	—	ENGINE COOLANT TEMP
2	ENCU	—	ENGINE CONTROL UNIT
4	ENFCV	—	ENGINE FUEL CONTROL VALVE
5	ENFRP	—	ENGINE FUEL RAIL PRESSURE
1	ENIR	—	ENGINE FUEL RELAY
9	ENINJ1	—	ENGINE FUEL INJECTOR 1
10	ENINJ2	—	ENGINE FUEL INJECTOR 2
10	ENINJ3	—	ENGINE FUEL INJECTOR 3
11	ENINJ4	—	ENGINE FUEL INJECTOR 4
7	ENSR	—	ENGINE SPEED RELAY
2	ENSSN	—	ENGINE SPEED SENSOR
4	ESL	—	ENGINE SERVICE LIGHT
4,5	F	—	FUSE
8	FHT	—	FUEL HEADER, INTEGRATED
6	FFRP	—	FUEL PUMP RELAY
8	GP	—	GLOW PLUG
7	GPR	—	GLOW PLUG RELAY
5	IGN	—	IGNITION SWITCH
2,3,9,10	●	—	SPLICE
3	KURSTA	—	KURSTA SERVICE PORT
12	L3	—	LOW OIL PRESS. SWITCH
9	OPG	—	OIL PRESSURE GAUGE
9	OPS	—	OIL PRESSURE SENDER
3	R	—	RESISTOR
4	SM	—	STARTER MOTOR
3,6	SS	—	STARTER SOLENOID
6	SSR	—	STARTER SOLENOID RELAY
11	TT	—	TIME METER
11	VC	—	VOLTAGE CONTROLLER
10	WTP	—	WATER TEMP. SENDER
10	WTS	—	WATER TEMP. SENDER

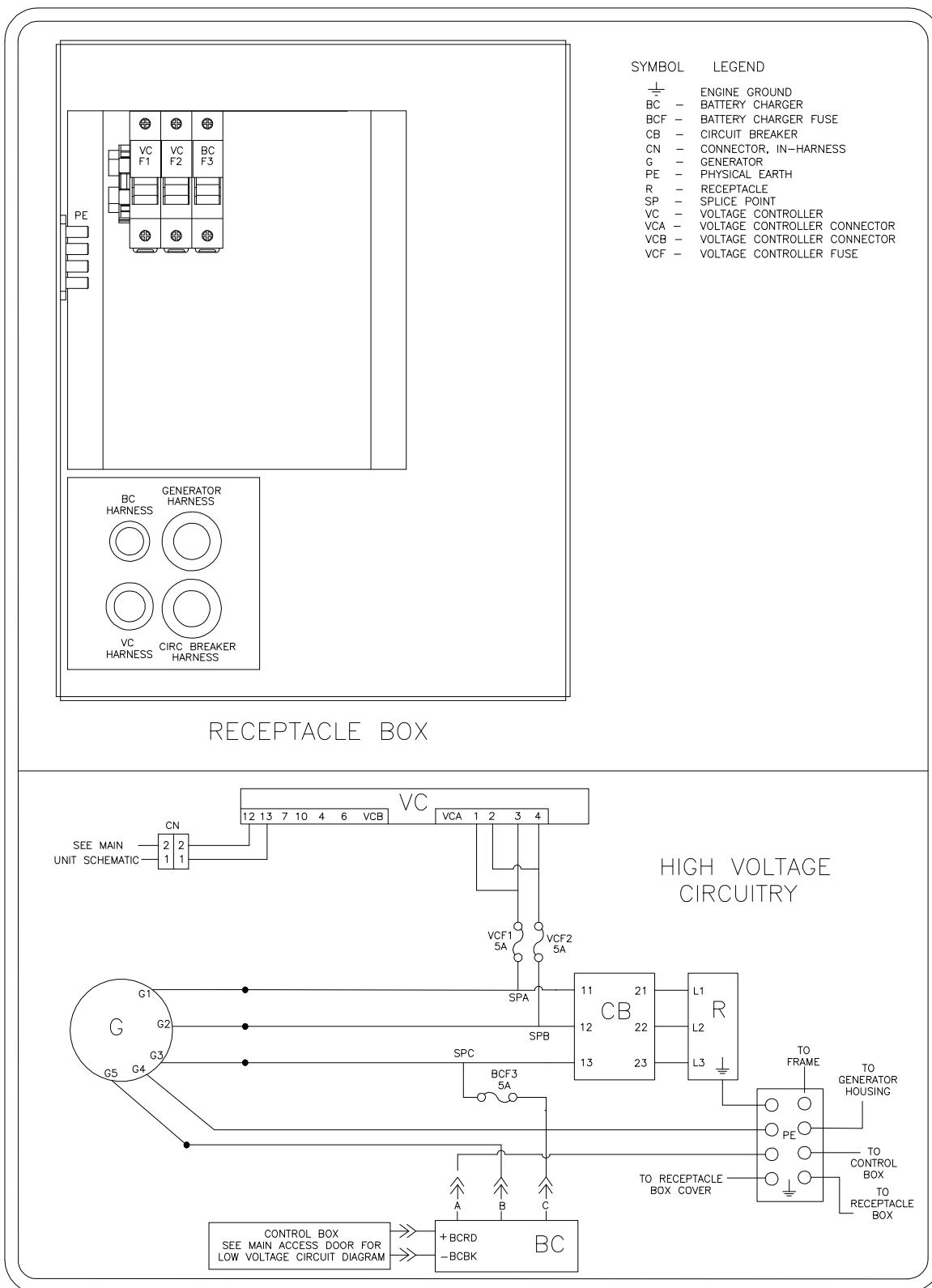
Item	Part Number	Description	Qty
1	62-12432-00	Label, Schematic	1

24 Label, Schematic - Receptacle Box and High Voltage Circuitry



Item	Part Number	Description	Qty
1	62-11963-00	Label, Schematic	1

25 Label, Schematic - Receptacle Box and High Voltage Circuitry (PID UG2403)



Item	Part Number	Description	Qty
1	62-04308-00	Label, Schematic	1

INDEX

Numerics

10-00171-12	1-2, 17-34	30-00601-00	1-1, 5-12
10-00171-13	1-2, 17-34	30-00601-50	1-1, 5-12
10-00328-06	1-2, 17-34	30-00601-51	5-12
10-00448-50	1-2, 17-34	30-01052-00	9-17
10-01129-14	1-2, 17-34	30-01108-04SV	1-2, 5-12
12-00097-03	1-2, 17-34	30-01108-20	1-2, 5-12
12-00098-04	1-2, 3-8	30-01108-22	1-2, 5-12
12-00592-16	1-2, 3-7	30-01108-23	1-2, 5-12
12-00707-04	1-2, 18-36	30-01176-00	9-17
12-00747-06	1-1, 6-13, 7-14	30-01177-00	9-17
12-00747-11	1-1, 6-13, 7-14	30-50347-01	1-1
12-00954-00	9-18	34-00304-18	5-12
22-00538-01	1-2, 17-34	34-00366-13	9-17
22-01030-54	17-34	34-00372-41	17-34, 18-36, 19-40, 19-41, 20-44
22-01196-24	1-2, 1-3, 18-36, 19-40	34-00372-43	11-22
22-01502-01	9-18	34-00373-05	20-44
22-01633-100	11-22	34-00373-07	18-36
22-01633-89	11-22	34-00373-51	10-19
22-01679-00	1-2, 18-36	34-00373-59	5-12
22-01942-01	19-41	34-00426-25	4-9
22-02200-06	17-34	34-00655-03	18-36
22-03199-01	1-2, 17-33	34-00655-04	18-36
22-03211-00	1-3, 19-40	34-00655-05	5-12
22-03212-00	1-3, 19-40	34-00655-06	10-19, 14-26, 15-30, 20-44
22-03213-00	1-3, 19-40	34-00655-08	5-12, 19-41, 20-44
22-03214-00	1-3, 19-40	34-00662-11	5-12, 10-19, 14-26, 14-27, 15-30, 15-31, 19-41, 20-44
22-03218-00	1-2, 17-34	34-00662-12	11-21
22-04158-00	18-36, 19-40	34-00662-13	5-12
22-04178-10	18-36, 19-40	34-00663-11	5-12, 10-19, 19-41, 20-44
22-04183-06	18-36, 19-40	34-00663-13	3-8, 5-12, 9-18, 11-21, 14-26, 15-30, 16-32
22-04275-00	1-2, 18-37	34-00667-07	17-34
22-04435-00	1-2, 18-36	34-00667-11	4-9, 5-12, 17-34, 18-36, 19-40, 19-41
22-04436-00	1-2, 18-37	34-00667-12	11-21
22-04437-00	1-2, 18-37	34-00667-13	3-8, 16-32
22-04438-00	1-2, 18-37	34-00667-15	3-8, 6-13, 7-14
22-04668-01	9-18	34-00795-09	15-31, 18-36, 19-40
25-39320-00	1-2	34-00795-17	3-8
26-00159-03	1-1, 3-7	34-00804-18	3-8
30-00358-02	11-22	34-00807-08	3-8, 5-12, 9-18, 11-21
30-00397-00	1-2, 8-16	34-00807-10	14-26, 15-30, 16-32
30-00406-01	1-1, 4-9	34-00807-12	3-8, 5-12
30-00426-05	1-1, 4-9	34-00829-09	18-36, 19-40
30-00426-25	1-1	34-00829-13	3-8
30-00460-06	1-1, 10-19	34-00829-15	3-8
30-00579-20	1-1, 5-12	34-00833-28	3-8
30-00579-50	1-1, 5-12	34-00890-10	3-8
30-00591-02	1-1, 9-17		

34-00928-01	9-18, 17-34	40-00345-02	5-12
34-00928-02	14-26, 15-30	40-00345-06	5-12
34-00928-05	14-27, 15-31	40-00420-01	5-12
34-00928-10	4-9	40-00420-04	5-12
34-00928-13	14-26, 14-27, 15-30, 15-31, 18-36, 19-40	40-00506-00	4-9
		40-00697-00	6-13, 7-14
34-00928-14	6-13, 7-14, 14-26, 15-30	40-00739-03	5-12
34-00945-06	3-8	40-00771-00	3-7
34-01142-01	14-26, 15-30	42-00174-42	14-27, 15-31
34-01146-06	20-44	42-00174-43	14-27, 15-31
34-01146-08	9-18, 16-32	42-00269-06	17-33
34-01146-12	9-17, 20-44	42-00269-11	14-27, 15-31
34-01146-58	3-8	42-00309-00	17-34
34-01151-06	20-44	42-00483-00	14-27, 15-31
34-01151-08	9-18	42-00484-00	14-27, 15-31
34-01151-10	11-22	42-00508-00	19-41
34-01151-12	9-17, 20-44	42-00583-00	17-34
34-01153-25	9-17	42-00751-00	18-36, 19-40
34-01155-25	9-17, 20-44	42-00752-00	18-36, 19-40
34-01159-02	17-34	42-01096-01	17-34
34-01226-00	14-26, 14-27, 15-30, 15-31	44-00045-25	5-12
34-01319-00	3-8	44-00102-56	5-12
34-01331-05	20-44	44-00102-57	5-12
34-01333-00	6-13, 7-14	44-00102-59	20-44
34-01341-25	20-44	44-00317-00	5-12
34-01369-50	3-8	44-00352-01	14-26, 14-27, 15-30, 15-31
34-01408-02	9-18	44-00388-00	8-16
34-06003-08	14-26, 15-30	44-00399-01	14-27, 15-31
34-06014-12	10-19	44-00454-00	4-9
34-06026-02	13-24	44-00455-01	18-37, 19-40
34-06029-08	3-8	44-60150-00	20-44
34-06053-03	14-26, 14-27, 15-30, 15-31	44-60150-02	5-12, 20-44
34-06060-01	3-8	44-60150-03	8-16
34-06060-02	3-8	46-00031-01	3-8
34-06134-07	11-22	48-00405-00	7-14
34-06151-02	13-24	50-01195-00	3-8
34-06157-01	13-24	50-01198-00	3-8
34-06158-02	13-24	54	3-8
34-06158-22	13-24	54-00738-20	1-2, 3-7
34-06159-50	13-24	54-00738-21	1-2, 3-8
34-06169-00	14-27, 15-31	54-00738-22	3-8
34-06212-12	18-36, 19-40	55-04842-02	17-34
34-06212-14	11-21	55-04842-03	17-34
34-06247-06	11-21	58-00065-46	5-12
34-06280-20	16-32	58-00065-76	5-12
40-00081-00	1-2, 8-16	58-00079-02	3-8, 5-12, 8-16, 11-22, 17-34, 18-36, 20-44
40-00107-01	3-8		
40-00117-01	1-2, 8-16	58-00658-03	5-12
40-00121-01	3-8	58-00658-09	5-12
40-00342-01	6-13, 7-14	58-00658-13	5-12
40-00342-03	6-13, 7-14	58-00660-00	18-36, 19-40

58-00836-13	17-34	62-10925-00	22-48
58-00848-01	18-36	62-11588-00	22-48
58-00848-13	8-16	62-11963-00	18-37, 24-50
58-00849-17	5-12	62-12430-00	9-18
58-01183-11	6-13	62-12432-00	23-49
58-01183-12	7-14	62-60390-02	6-13, 7-14
58-01183-13	7-14	65-01099-65	6-13
58-01183-14	6-13	65-01100-80	7-14
58-01303-01	20-44	66CH---1--1002-5	17-34
58-01303-02	20-44	66CH---1--1092-4	18-36
58-01390-00	5-12	66-U---1--2552	14-26, 15-30
58-01391-00	5-12	66-U---1--2552-173	14-26, 15-30
58-01427-00	17-34	66-U---1--2823	1-2, 17-34
58-01449-00	11-22	66-U---1--2823-4	1-2, 3-7
58-01475-00	19-40	66-U---1--3662-21	17-34
58-01508-00	17-34	66-U---1--5321-17	14-26, 15-30, 16-32
58-01516-00	4-9	66-U---1--5321-2	17-34
58-04026-32	17-34	66-U---1--5321-3	4-9
58-04102-03	4-9	66-U---1--5321-5	9-18
58-04184-00	6-13, 7-14	66-U---1--5321-7	8-16, 14-26, 15-30
58-04215-10	8-16	66-U---1--5321-8	15-31, 17-34, 18-36, 19-40
58-04428-00	14-27, 15-31	66-U---1--5321-9	3-8
58-04585-00	8-16	66-U---1--5331-3	17-34, 18-36, 20-44
58-04784-10	8-16	66-U---1--5331-8	3-8
58-05100-00	5-12, 10-19, 11-22, 18-36, 20-44	66-U---1--5361-25	4-9, 8-16, 18-36, 19-40
58-05100-03	20-44	66-U---1--5361-36	3-8
58-05100-04	20-44	66-U---1--5361-47	18-36
58-05100-06	20-44	66-U---1--5371-6	17-34, 18-36, 20-44
62-02181-02	6-13, 7-14	66-U---1--5371-9	14-27, 15-31
62-02669-05	17-34	66-U---1--6811-12	14-26, 14-27, 15-30, 15-31
62-02670-00	18-36	66-U---1--6811-8	14-27, 15-31
62-02670-01	18-36	66-U---1--7842-11	1-2, 18-36
62-02717-09	22-48	66-U---1--7842-6	18-36
62-02895-00	22-48	66-U---1--7842-7	18-36
62-02972-00	22-48	66-U---1--9132	4-9
62-03957-01	19-41, 22-48	66-U---1--9592-13	17-34
62-03957-04	18-36, 19-40	66-U---2--1391-1	18-36
62-03958-00	22-48	68-08818-01	9-17
62-04191-00	22-48	68-08838-00	1-2, 17-33
62-04308-00	19-40, 25-51	68-08869-00	9-17
62-10358-00	22-48	68-11862-01	13-24
62-10391-01	6-13, 7-14, 22-48	68-12814-01	14-27, 15-31
62-10530-58	17-34	68-13439-02	14-27, 15-31
62-10530-59	17-34	68-13441-00	17-34
62-10530-60	17-34	68-14126-01	8-16
62-10530-61	17-34	68-14535-00	14-26, 15-30
62-10572-00	22-48	68-14709-00	14-26, 15-30, 16-32
62-10572-10	22-48	68-14809-00	16-32
62-10573-00	6-13, 7-14	68-14812-00	16-32
62-10903-00	8-16	68-14871-00	7-14
		68-15491-00	4-9

68-15522-01	14-26, 15-30
68-15626-08	19-40
68-16152-00	6-13
68-16776-01	14-26
68-16776-03	15-30
68-16799-02	19-40
68-16964-00	14-26
68-16964-02	15-30
68-17019-01	14-26, 15-30
68-17382-00	11-21
68-18431-00	5-11
68-19334-00	5-12
68-19422-00	3-8
68-86230-00	18-36, 19-40
68-86230-02	17-34
69NT--35--2692-1	8-16
73-00175-01	3-7
73-00198-01	3-7
73-00205-00	16-32
76-00663-17	14-26
76-00663-18	14-27, 15-31
76-02102-05	15-30
79-01795-01	14-27, 15-31
79-02421-00	14-26
79-02421-03	15-30
79-02495-02	7-14
81-01379-00	1-2, 8-16
81-04093-00	6-13, 7-14
86-03218-01	1-3, 19-40
86-03221-00	19-41
86-03341-01	1-2, 17-33
86-04524-01	3-7
86-04687-00	16-32
86-04831-08	12-23
86-04831-11	12-23
86-04906-00	14-26
86-04906-01	15-30
86-04928-01	10-19
86-04941-00	1-2, 1-3, 18-36, 19-40
86-04991-00	1-2, 18-36
86-05031-00	11-21
86-05484-00	5-11
86-05529-01	5-11
91-00445-01	19-41
91-00488-01	18-36
91-01222-01	1-2, 17-33

A

Air Cleaner Filter 4-9
 Air Cleaner Filter Element 4-9
 Air Cleaner Indicator 4-9

Air Vent, Radiator	8-16
Ammeter	1-2, 17-34
--AT--39QA-132	17-34
--AU--11JR-171	8-16, 14-26, 15-30, 18-36, 19-40
--AU--51YA-012	7-14
--AU--53VA-061	14-27, 15-31

B

Battery	11-22
Battery Charger	10-19
BCF3	1-2, 1-3, 18-36, 19-40
Belt	3-8

C

CB1	1-2, 18-36
CB2	1-2, 17-34
CB3	1-2, 17-34
CB4	1-2, 17-34
Circuit Breaker	1-2, 17-34, 18-36
Controller	18-36
Coupling	3-8
Cover, Engine	14-26, 15-30
Cover, Receptacle Box	1-2, 18-36

D

Diesel Oxidation Catalyst 9-17
 DOC 9-17
 Door, Access 14-26, 15-30
 Door, Access (Battery) 14-27, 15-31
 Door, Access (Front) 14-26, 15-30
 Door, Control Box 14-27, 15-31
 Drain Cock, Radiator 8-16

E

Engine	3-7
Engine Relay	1-2, 17-34
Engine Speed Relay	1-2, 17-34
ENGR	1-2, 17-34
ENSR	1-2, 17-34

F

FPR	1-2, 17-34
Fuel Gauge	6-13, 7-14
Fuel Pump Relay	1-2, 17-34
Fuel Tank	6-13, 7-14

G

Generator Fan	3-8
---------------	-----

Generator Fan Cover 3–8

Glow Plug Relay 1–2, 17–34

GPR 1–2, 17–34

H

Hour Meter 17–34

K

--KA--69JM-824 8–16

--KA--69JM-840 4–9

--KK--71EW-223 17–34

Kubota Engine 3–7

L

LOP 3–7

Low Oil Pressure Switch 3–7

O

Oil Pressure Sender 3–7

OPS 3–7

P

Panel, Back 14–26, 15–30

Panel, Top 14–26, 15–30

Poly V-Belt 3–8

R

Radiator Assembly 8–16

Radiator Cap 8–16

Receptacle 18–36

Receptacle Box 1–2, 18–36

Relay, 30 Amp 1–2, 17–34

Relay, 70 Amp 1–2, 17–34

S

SSR 1–2, 17–34

Starter Solenoid Relay 1–2, 17–34

T

Torsional Dampener 3–8

V

VCF1 1–2, 1–3, 18–36, 19–40

VCF2 1–2, 1–3, 18–36, 19–40

Voltage Controller 18–36

Voltage Controller Fuse 1–2, 1–3, 18–36, 19–40

W

Water Temperature Gauge 17–34

Water Temperature Sender 3–8

Wire Harnesses 1–3, 19–40

WTG 17–34

WTS 3–8



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