



# Diesel Generator Set



## PARTS LIST MANUAL

For

### 69RG15

PowerLINE<sup>®</sup> Series 22 Generator Set Units

PID RG2260 to 2299

Tier 4 Compliant

T-385PL





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# 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	Equipment Covered	Type of Manual
62-10865 *	26-00136-23SV	V2203-DI	Workshop
62-11695 *		V2203-DI	Engine Parts List

\* When referring to the engine manual, please note that this engine has been assembled using a two piece oil pan.

### 1.2 Model and Product Identification Numbers

Beginning with early 1995 production, Carrier Transicold began using a parts identification (PID) number in the format of RG0000 in addition to a model number. In this manual, the PID number is shown in boldface to point out variations within models.

### 1.3 Ordering Instructions

All orders and inquiries for parts must include:

- Part Identification Number (PID)
- Model Number
- Unit Serial Number
- Part Number
- Description of Part as shown on list
- Quantity required

Address all correspondence for parts to the following address:

For inquiries, email: [containeraftermarketparts@carrier.com](mailto:containeraftermarketparts@carrier.com)

### 1.4 General Notes

To find replacement parts, consult table of contents, and turn to the appropriate page for the illustrated breakdown of replacement parts. The following letter designations are used to classify parts throughout this list:

A/R *As Required*

NLO *No Longer Offered*

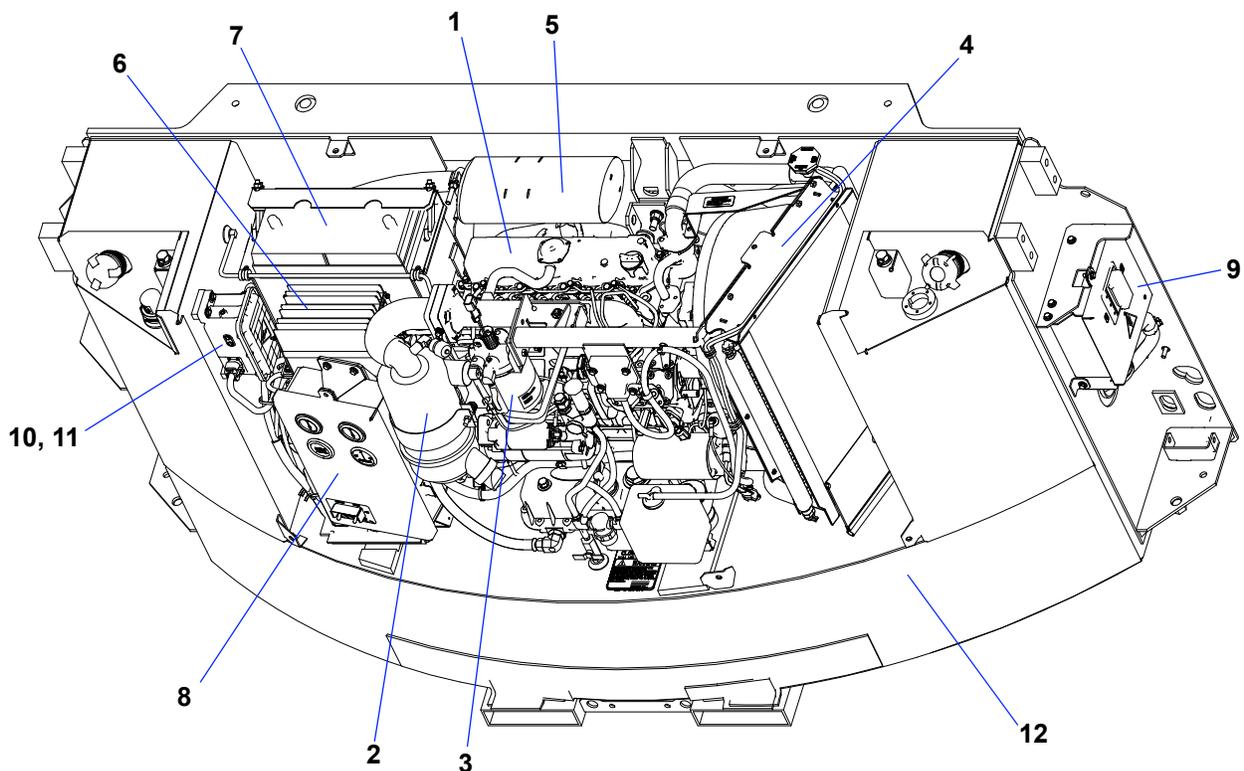
PID *Parts Identification Number* - essential to identify unit configuration

PL *Purchase locally*

SST *Stainless Steel* - 300 Series unless otherwise specified

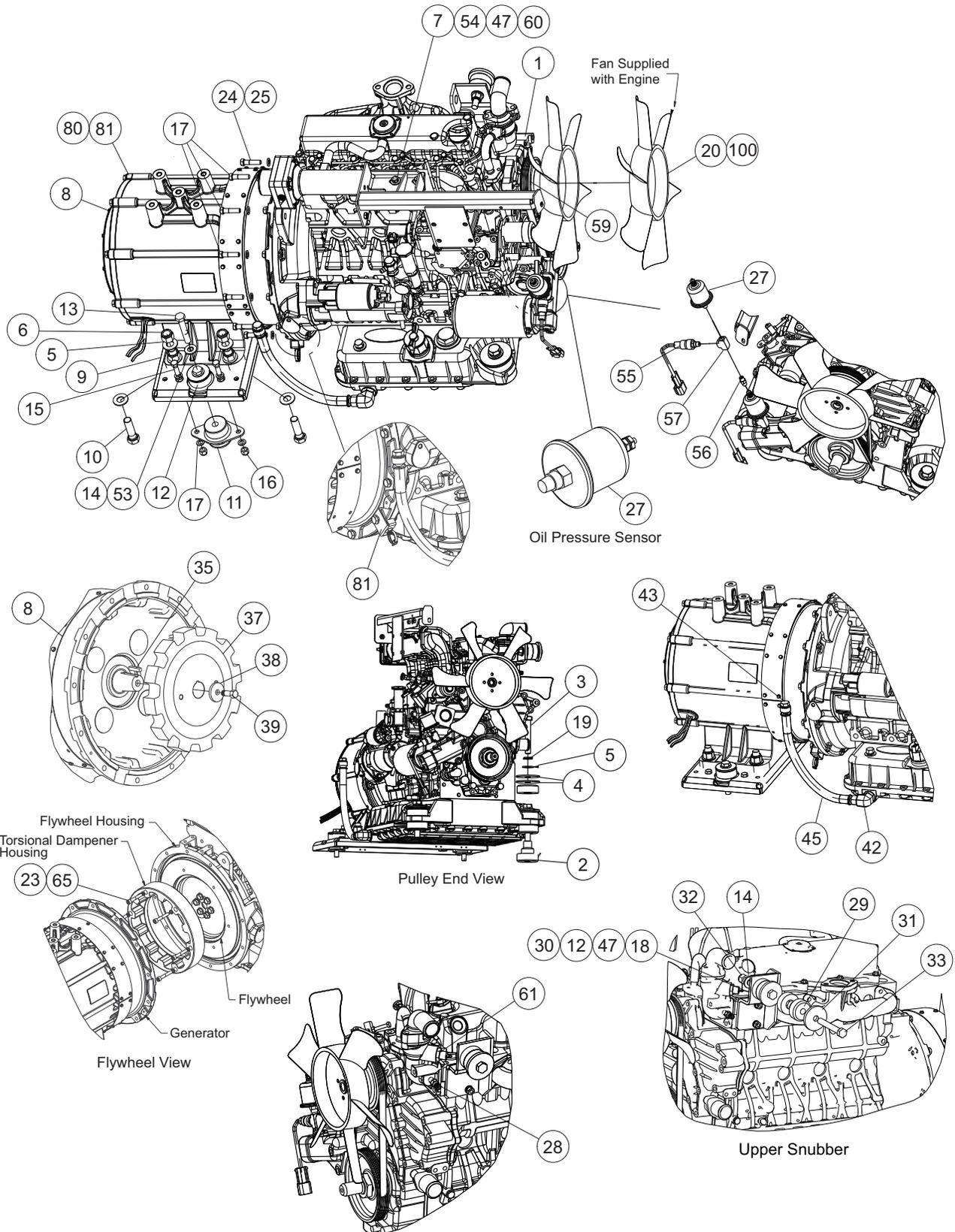
SV *Suffix SV* - added to the part number designates service part replacement part

## 2 RG Generator Set Configuration

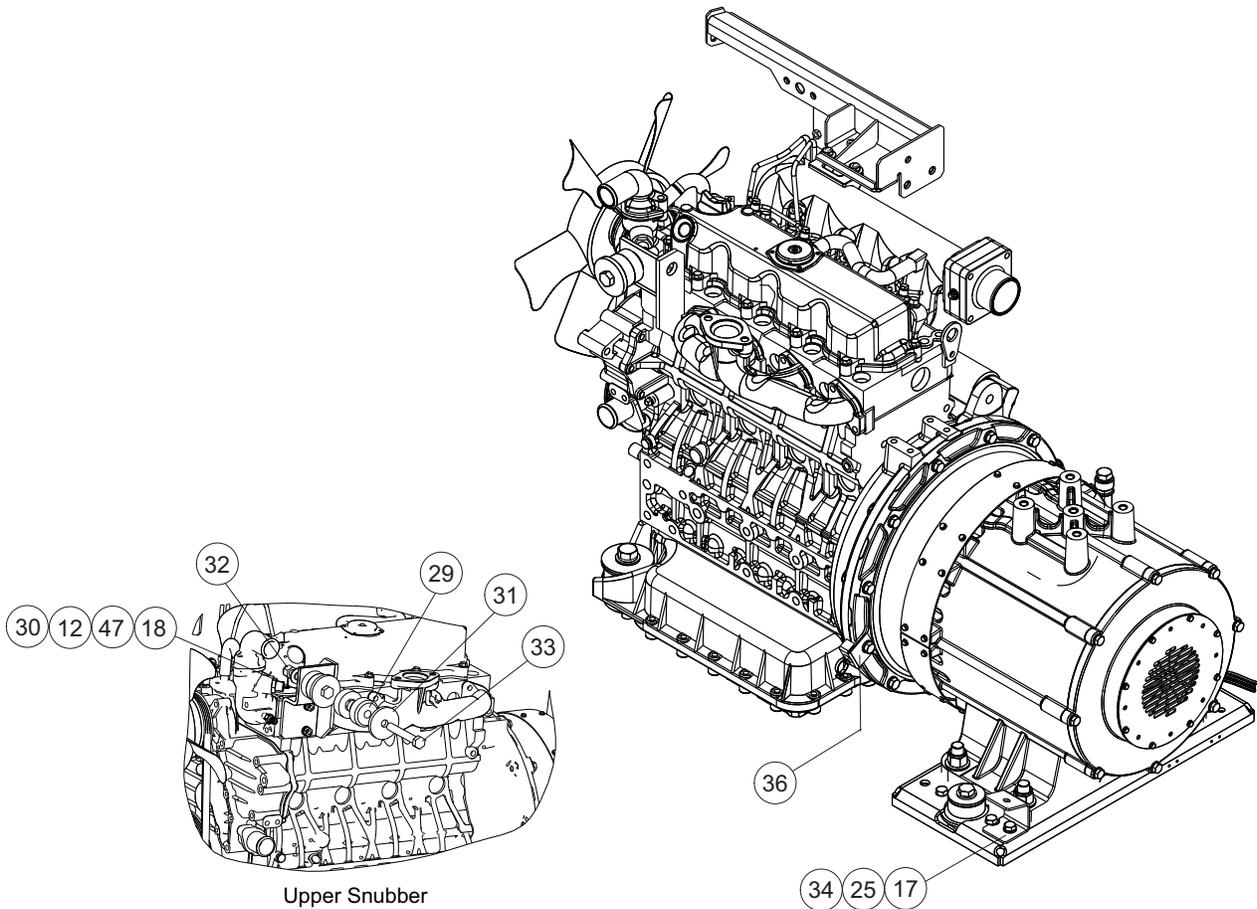


Item	Section Number	Area Description	
1	Refer to <a href="#">Section 3</a>	Unidrive Assembly (Engine and Generator)	
2	Refer to <a href="#">Section 4</a>	Engine Air Cleaner	
3	Refer to <a href="#">Section 5</a>	Engine Fuel System	
4	Refer to <a href="#">Section 6</a>	Engine Cooling System	
5	Refer to <a href="#">Section 7</a>	Exhaust System	
6	Refer to <a href="#">Section 8</a>	Battery Charger Kit	
7	Refer to <a href="#">Section 9</a>	Battery Kit	
8	Refer to <a href="#">Section 10</a>	Control Box	
9	Refer to <a href="#">Section 11</a>	Receptacle Box	
10	Refer to <a href="#">Section 12</a>	Voltage Kit	
11	Refer to <a href="#">Section 13</a>	Voltage Controller Kit	
13	Refer to <a href="#">Section 14</a>	Mounting Kit (not shown)	
12	Refer to <a href="#">Section 15</a>	Frame Assembly	
14	Refer to <a href="#">Section 16</a>	Skins Kit (Not Shown)	
15	Refer to <a href="#">Section 17</a>	Labels and Decals (Not Shown)	
16	Refer to <a href="#">Section 18</a>	Label, Schematic (Not Shown)	

### 3 Unidrive Assembly



### 3 Unidrive Assembly

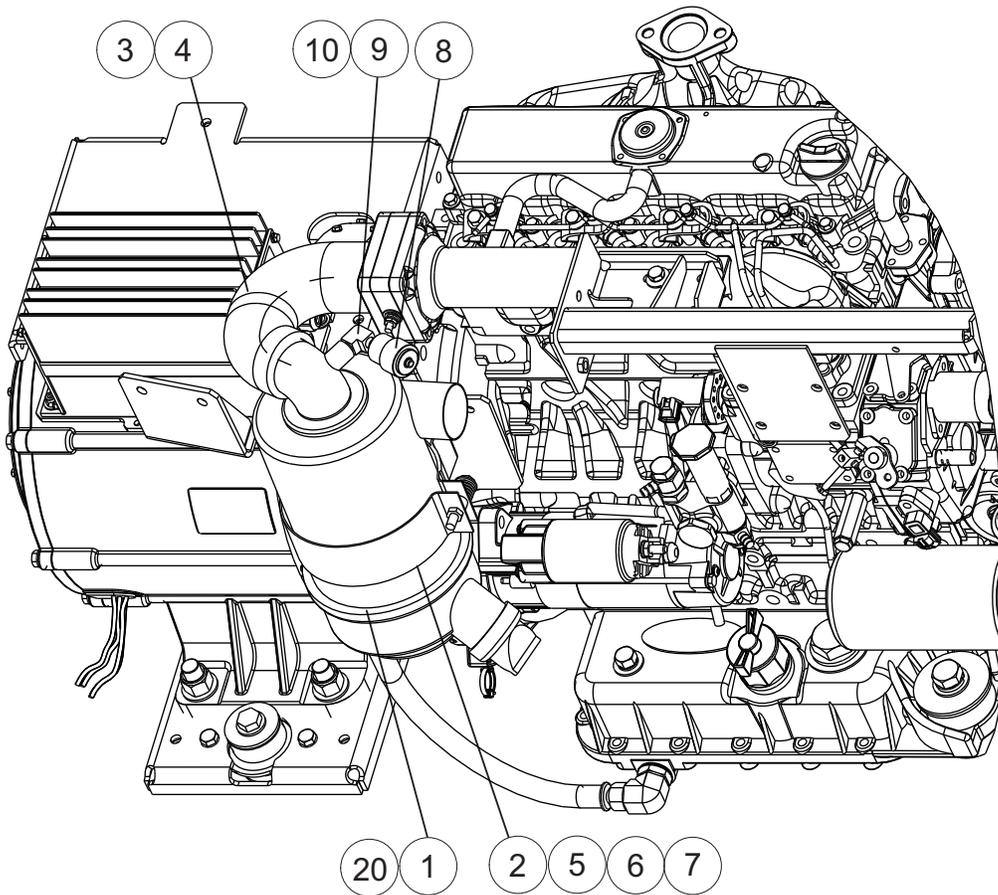


Item	Part Number	Description	Qty
1	26-00136-23SV	Engine, Kubota	1
2	73-00198-00	Shockmount	2
3	66-U---1--5361-36	Screw, Cap Hxhd	2
4	34-06060-01	Washer, Snubbing	4
5	66-U---1--5321-9	Washer, Plain	10
6	34-00795-17	Nut, Self Lock	4
7	86-04768-01	Bracket Assembly	1
8	54-00738-23	Generator	1
9	86-04182-01	Base, Mounting	1
10	34-00804-18	Screw, Cap Hxhd	4
11	73-00175-01	Shockmount	2
12	34-01151-08	Washer, Flat	4
13	34-00833-24	Screw, Cap Hxhd	2
14	34-00829-15	Washer, Plain	3
15	34-00807-10	Screw, Cap Hxhd	4
16	34-00667-13	Nut, Self Lock	4
17	34-00829-13	Washer, Plain	12
18	34-01145-06	Nut, Hex	2
19	66-U---1--5331-8	Washer, Lock	2
20	34-00945-06	Washer, Lock	4

**3 Unidrive Assembly**

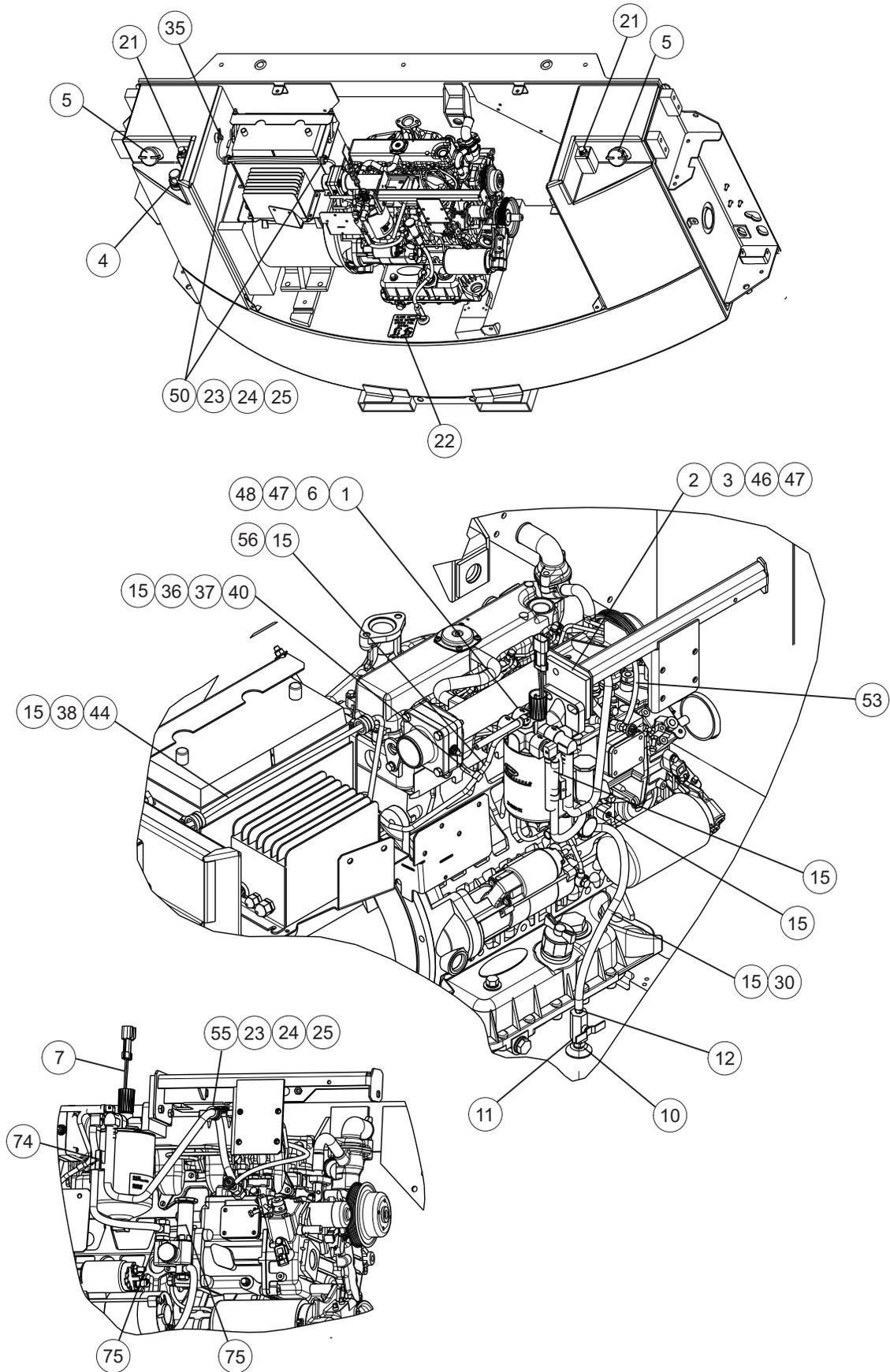
23	34-01146-58	Washer, Lock	6
24	34-00807-12	Screw, Cap Hxhd	12
25	34-00663-13	Washer, Lock	13
27	66-U---1--2823-4	Oil Pressure Sender (OPS)	1
28	12-00098-04	Water Temperature Sending Unit	1
29	73-00305-00	Shockmount	1
30	86-04674-00	Weld Assembly	1
31	34-00890-08	Washer, Special	1
32	34-00667-15	Nut, Self Lock	1
33	34-00308-28	Screw, Cap Hxhd	1
34	68-08891-00	Bracket	1
35	34-06029-08	Key, Square	1
36	68-08816-01	Bracket	2
37	76-02106-00	Coupling, Torsional Dampener, Service Kit	1
38	34-01319-00	Washer, Flat	1
39	34-00559-08	Screw, Cap Hxhd	1
42	40-00566-00	Elbow, 90 Degree	1
43	40-00043-05	Plug	1
45	66CH---1---123-100	Hose Assembly	1
47	34-01146-08	Washer, Lock	4
53	66-U---1--5331-9	Washer, Lock	2
54	34-00662-12	Washer, Plain	2
55	12-00592-16	Low Oil Pressure (LOP) Switch	1
56	40-00771-00	Nipple, Hex	1
57	40-00107-01	Tee	1
59	50-01198-00	Belt	1
60	34-01153-15	Screw, Cap Hxhd	2
61	10-00158-03	Switch, Safety	1
65	34-01369-50	Screw, Socket Hd	6
80	54-00738-21	Generator Fan	1
81	68-08816-01	Bracket	1
NS	54-00738-22	Generator Fan Cover	1
100	25-39320-00	Engine Fan	1

## 4 Air Cleaner - Dry Element Air Filter



Item	Part Number	Description	Qty
1	30-00426-05	Air Cleaner, Filter Element	1
2	44-00454-00	Bracket	1
3	58-04836-00	Hose	1
4	--KA--69JM-840	Clamp, Hose	2
5	34-00655-06	Screw, Cap Hxhd	2
6	34-00667-11	Nut, Self Lock	2
7	34-06212-12	Washer, Plain	2
8	30-00328-00	Indicator	1
9	40-00512-00	Elbow, Union	1
10	40-01176-52	Nipple	1
20	30-00426-20	Air Cleaner, Filter	1

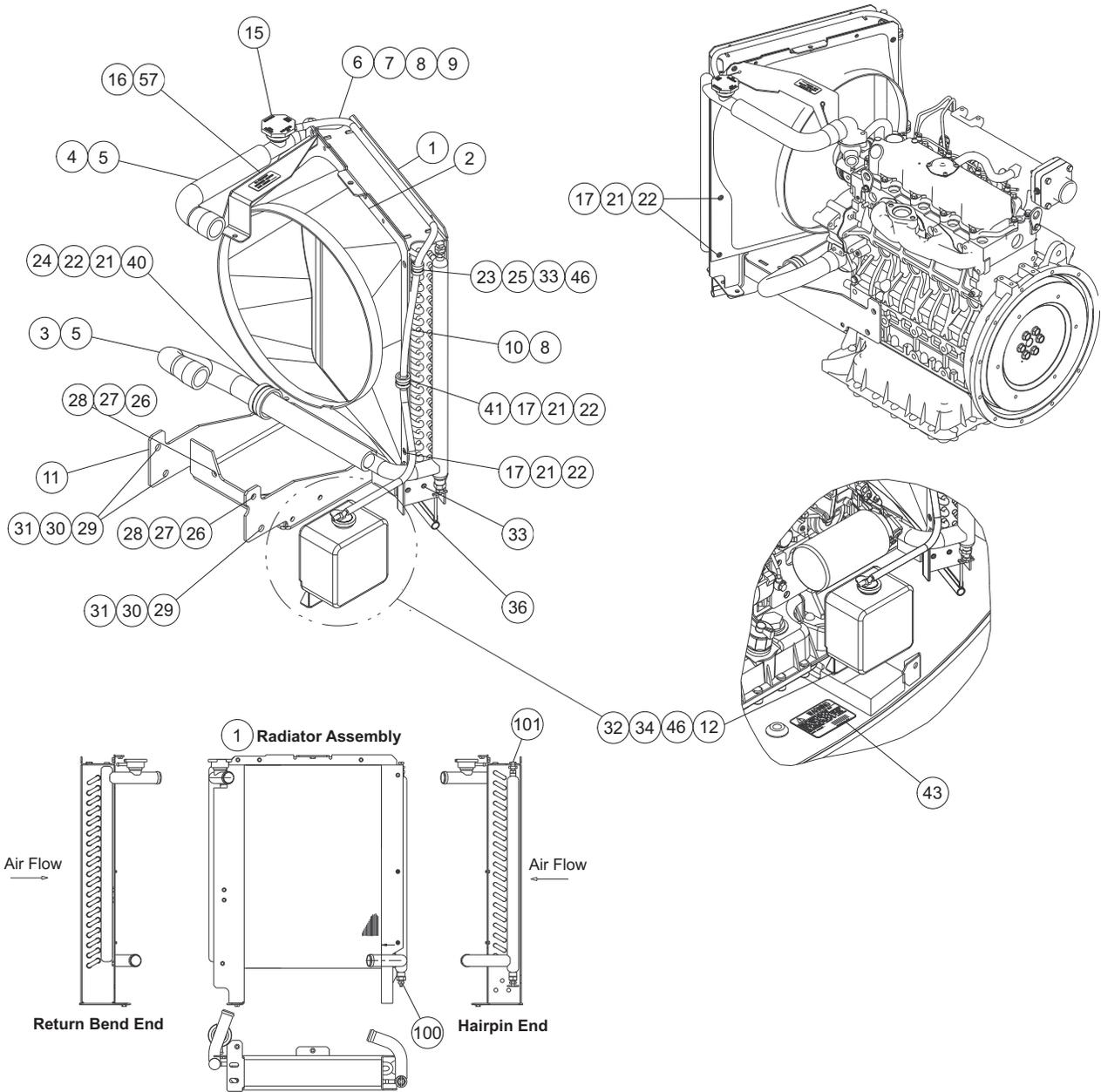
# 5 Fuel System Kit



**5 Fuel System Kit**

Item	Part Number	Description	Qty
1	30-01128-00	Fuel Filter Assembly	1
	30-01090-04	Fuel Filter / Water Separator Element with Drain, Gasket & O-Ring	1
2	48-00449-00	Spacer	1
3	34-00667-12	Nut, Self Lock	1
4	12-00747-10	Fuel Gauge	1
	12-00747-03	Fuel Gauge, Dial Only	1
5	44-00046-13	Cap Assembly	2
6	66-U---1--5361-38	Bolt, Mach Hxhd	2
7	58-00858-30	Tube, Slit	1
10	81-04100-00	Tube, Pickup	1
11	40-00469-00	Valve, Fuel Line Shut Off	1
12	40-00420-01	Fitting, Hose	1
15	44-00045-25	Clamp, Hose	12
21	40-00697-00	Vent	2
22	69GC--15--3212	Label	1
23	34-06212-12	Washer, Plain	3
24	34-00663-11	Washer, Lock	3
25	34-00655-08	Screw, Cap Hxhd	1
30	58-00658-10	Hose, Fuel	1
35	40-00213-00	Fitting, Hose	1
36	58-00659-26	Hose, Fuel	1
37	40-01156-00	Tee, Male Branch	1
38	58-00659-16	Hose, Fuel	1
40	58-00848-01	Tube, Slit	1
44	58-00848-04	Tube, Slit	1
46	34-00792-10	Screw, Cap Hxhd	1
47	66-U---1--5321-4	Washer, Plain	4
48	34-00663-12	Washer, Lock	2
50	44-00102-54	Clamp, Cushioned	2
53	58-00848-22	Tube, Slit	1
55	44-00102-52	Clamp, Cushioned	1
56	58-00848-30	Tube, Slit	1
74	44-00317-00	Clip	1
75	42-01133-00	Seal	2

## 6 Coolant System

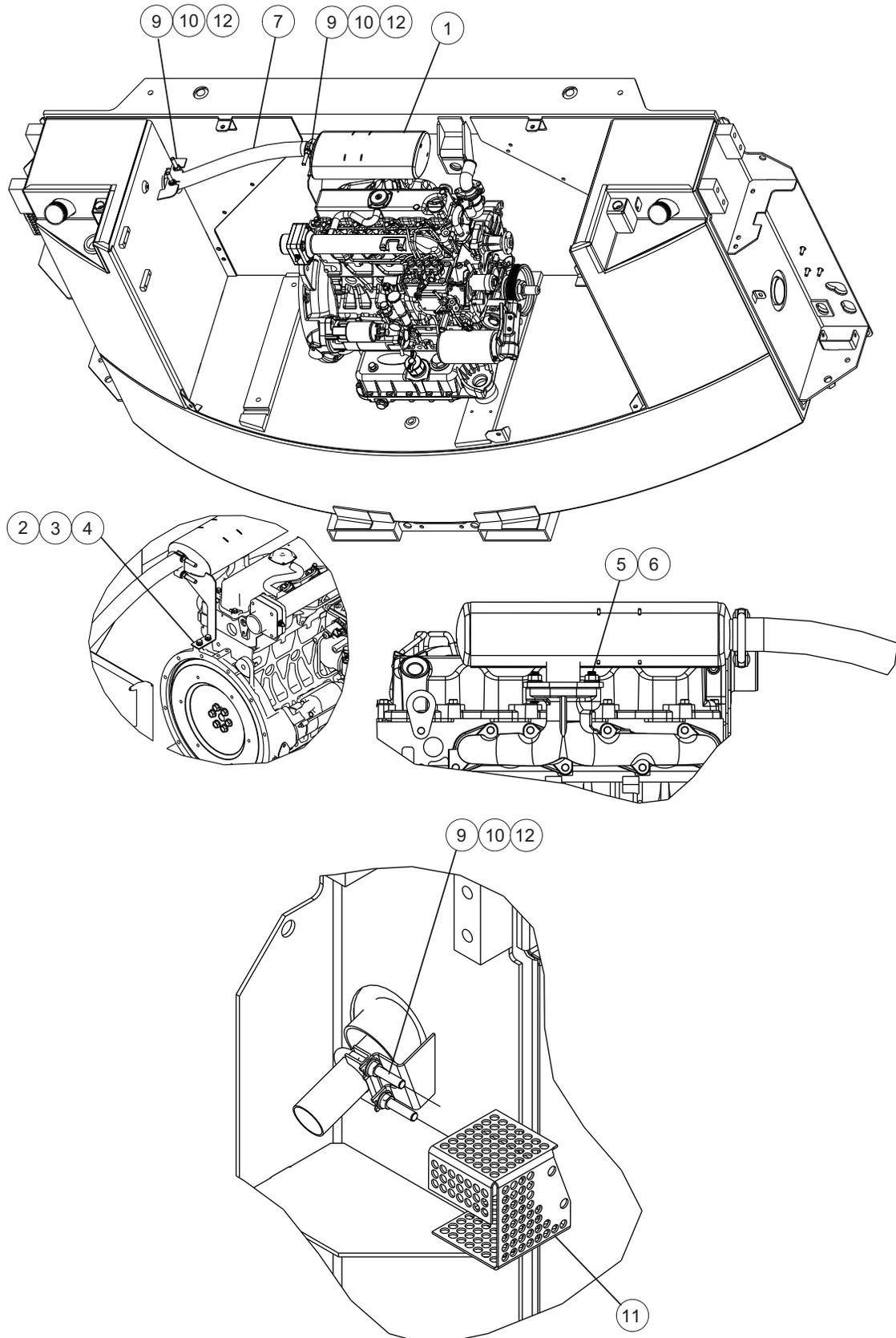


Item	Part Number	Description	Qty
1	81-04054-00	Radiator Assembly	1
2	58-04765-00	Venturi	1
3	58-04268-10	Hose, Formed	1
4	58-04267-10	Hose, Formed	1
5	--KA--69JM-824	Clamp, Hose	4
6	58-04184-04	Hose, Fuel	1
7	44-00388-00	Clamp, Hose	2
8	58-00079-02	Sta-Strap	4
9	58-04316-00	Base, Mounting	2
10	58-00848-20	Tube, Slit	1

## 6 Coolant System

11	86-04288-01	Support Assembly	1
12	86-04470-00	Bracket Assembly	1
15	30-00397-00	Radiator Cap	1
16	86-04675-00	Support Assembly	1
17	34-00655-06	Screw, Cap Hxhd	4
21	69NT--35--2692-1	Washer, Fender	5
22	34-00663-11	Washer, Lock	5
23	34-00667-112	Nut, Self Lock	1
24	44-00102-61	Clamp, Cushioned	1
25	44-00102-52	Clamp, Cushioned	1
26	34-01154-25	Screw, Cap Hxhd	3
27	34-01151-10	Washer, Flat	3
28	34-01146-10	Washer, Lock	3
29	34-01155-25	Screw, Cap Hxhd	3
30	34-01151-12	Washer, Flat	3
31	34-01146-12	Washer, Lock	3
32	66-U---1--5361-6	Screw, Cap Hxhd	2
33	66-U---1--5361-39	Screw, Cap Hxhd	6
34	34-00663-12	Washer, Lock	2
36	42-00264-09	Seal	1
40	34-00655-08	Screw, Cap Hxhd	1
41	44-00102-54	Clamp, Cushioned	1
43	62-10903-00	Label	1
46	34-00662-12	Washer, Plain	2
57	34-01422-08	Screw, Cap Hxhd	1
100	40-00117-01	Drain Cock (in Radiator Assembly)	1
101	40-00081-00	Air Vent (in Radiator Assembly)	1

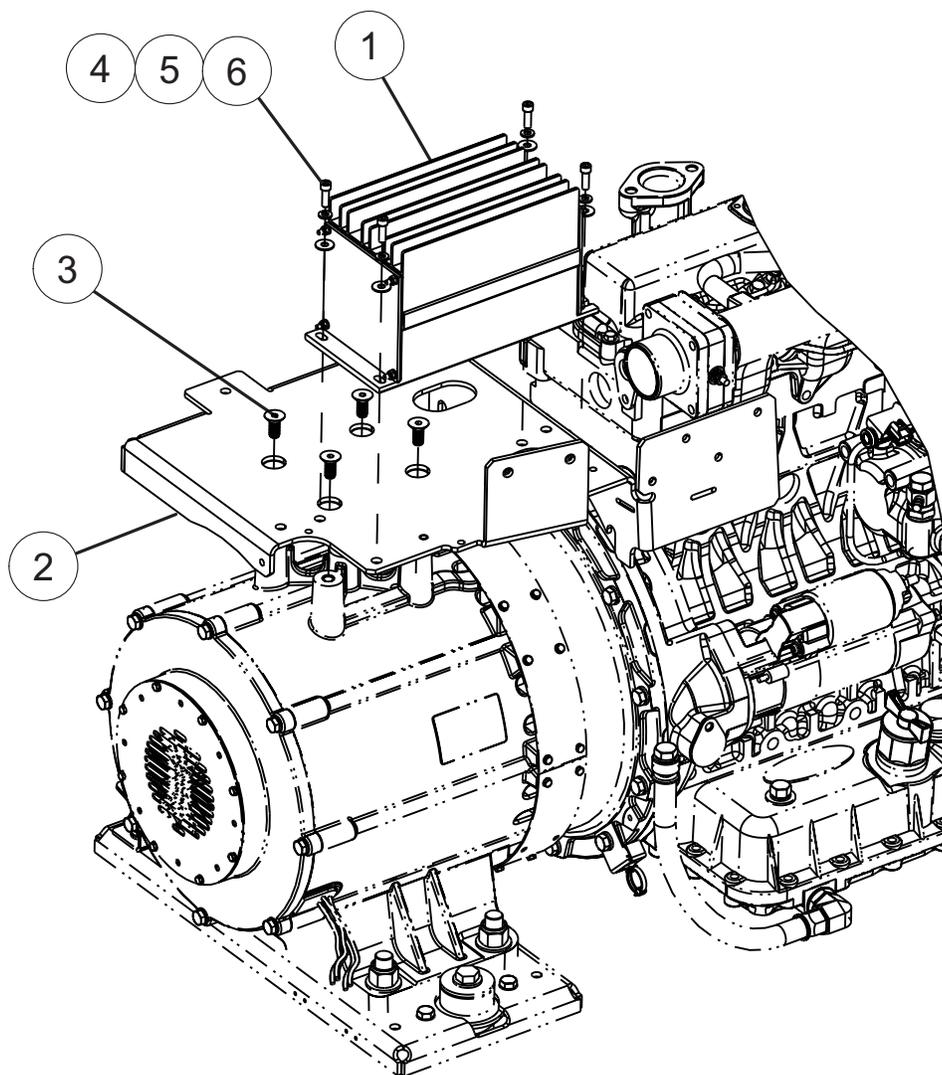
## 7 Exhaust System



## 7 Exhaust System

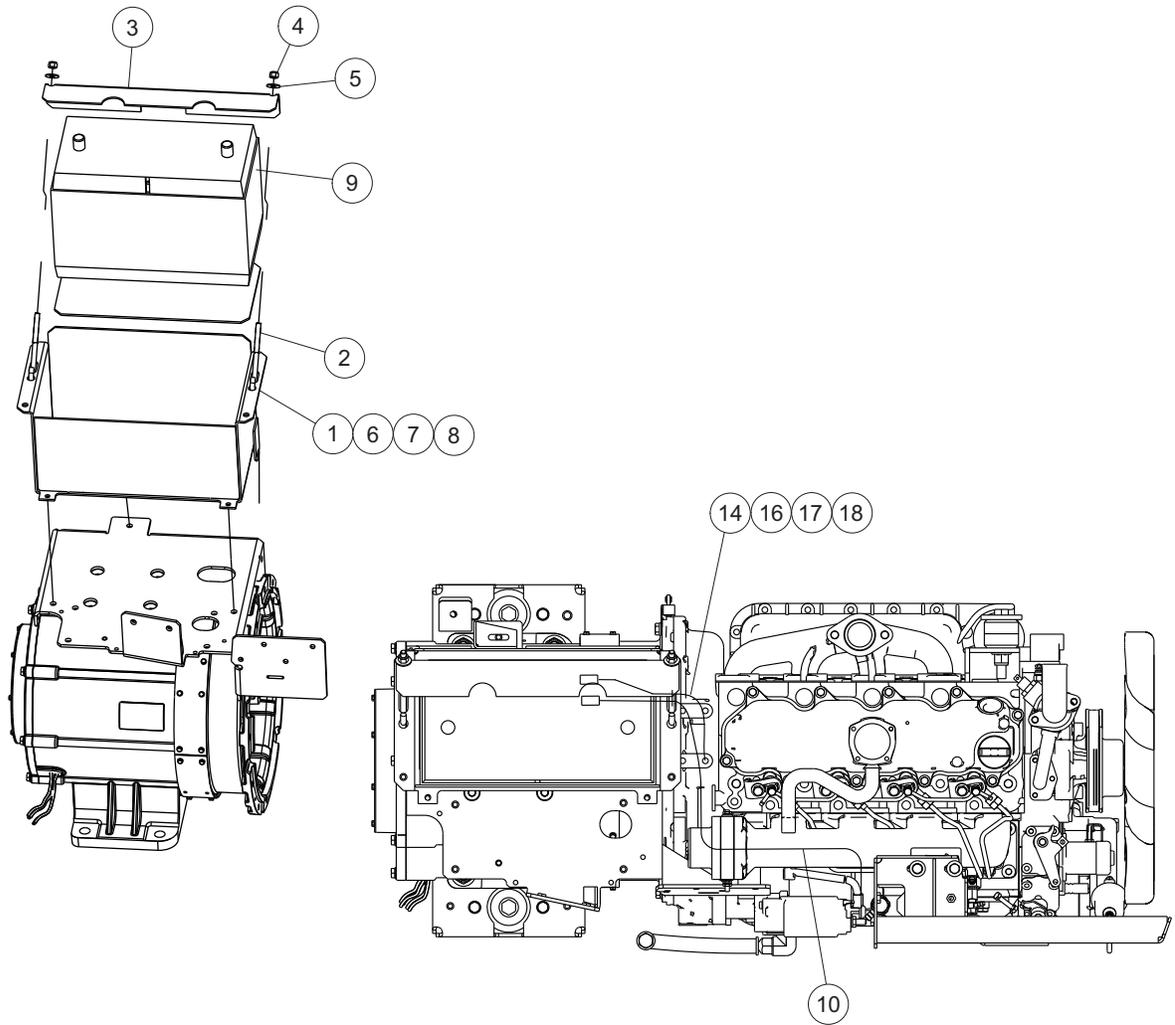
Item	Part Number	Description	Qty
1	30-00424-21	Muffler	1
2	34-01146-08	Washer, Lock	2
3	34-01151-08	Washer, Flat	2
4	34-01153-15	Screw, Cap Hxhd	2
5	34-00964-00	Stud	2
6	34-01324-13	Nut, Flanged	2
7	30-00435-01	Pipe, Flexible	1
9	30-00427-00	Clamp, U-Bolt	3
10	34-00663-13	Washer, Lock	8
12	66-U---1--5321-5	Washer, Plain	8

## 8 Battery Charger



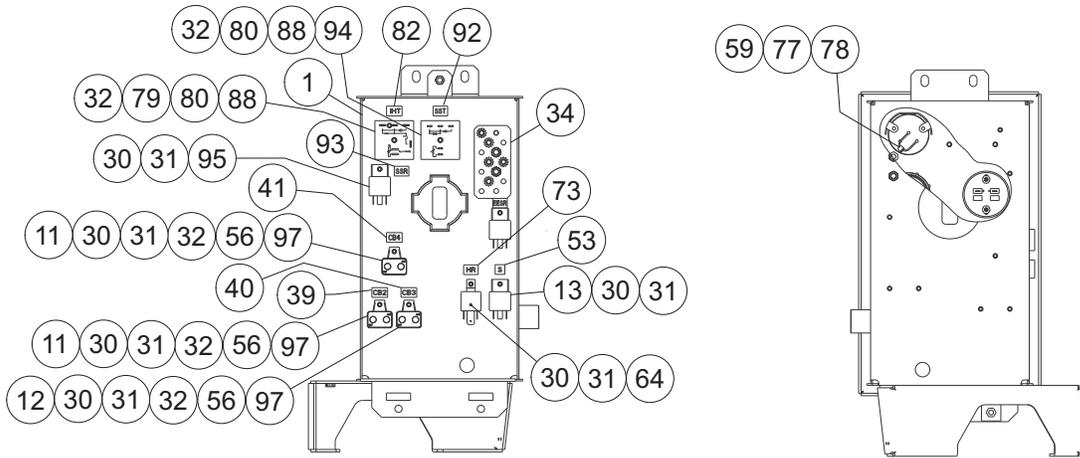
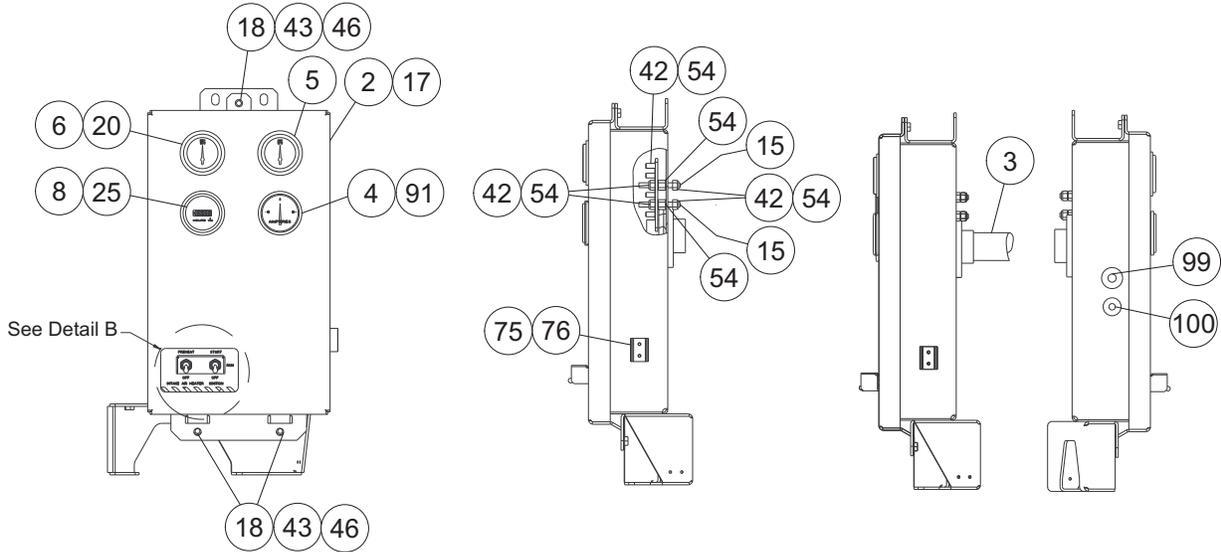
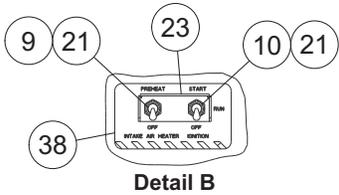
Item	Part Number	Description	Qty
1	30-00460-06	Battery Charger	1
2	86-03355-00	Bracket Assembly	1
3	34-01418-08	Screw, Cap Flat Head	4
4	34-00663-11	Washer, Lock	4
5	34-00662-11	Washer, Plain	4
6	34-06014-12	Screw, Cap Skthd	2

## 9 Battery Kit



Item	Part Number	Description	Qty
1	86-04677-00	Battery Box Assembly	1
2	34-06247-02	J-Hook	2
3	68-13946-00	Angle, Hold Down	1
4	34-00667-12	Nut, Self Lock	2
5	34-00662-12	Washer, Plain	2
6	34-00655-08	Screw, Cap Hxhd	4
7	34-00663-11	Washer, Lock	4
8	34-00662-11	Washer, Plain	4
9	30-50347-01	Battery	1
10	22-01633-46	Cable, Battery	1
14	34-00372-42	Washer, Lock	1
16	22-01633-47	Cable, Battery	1
17	34-01153-15	Screw, Cap Hxhd	1
18	34-01151-08	Washer, Flat	1

# 10 Control Box



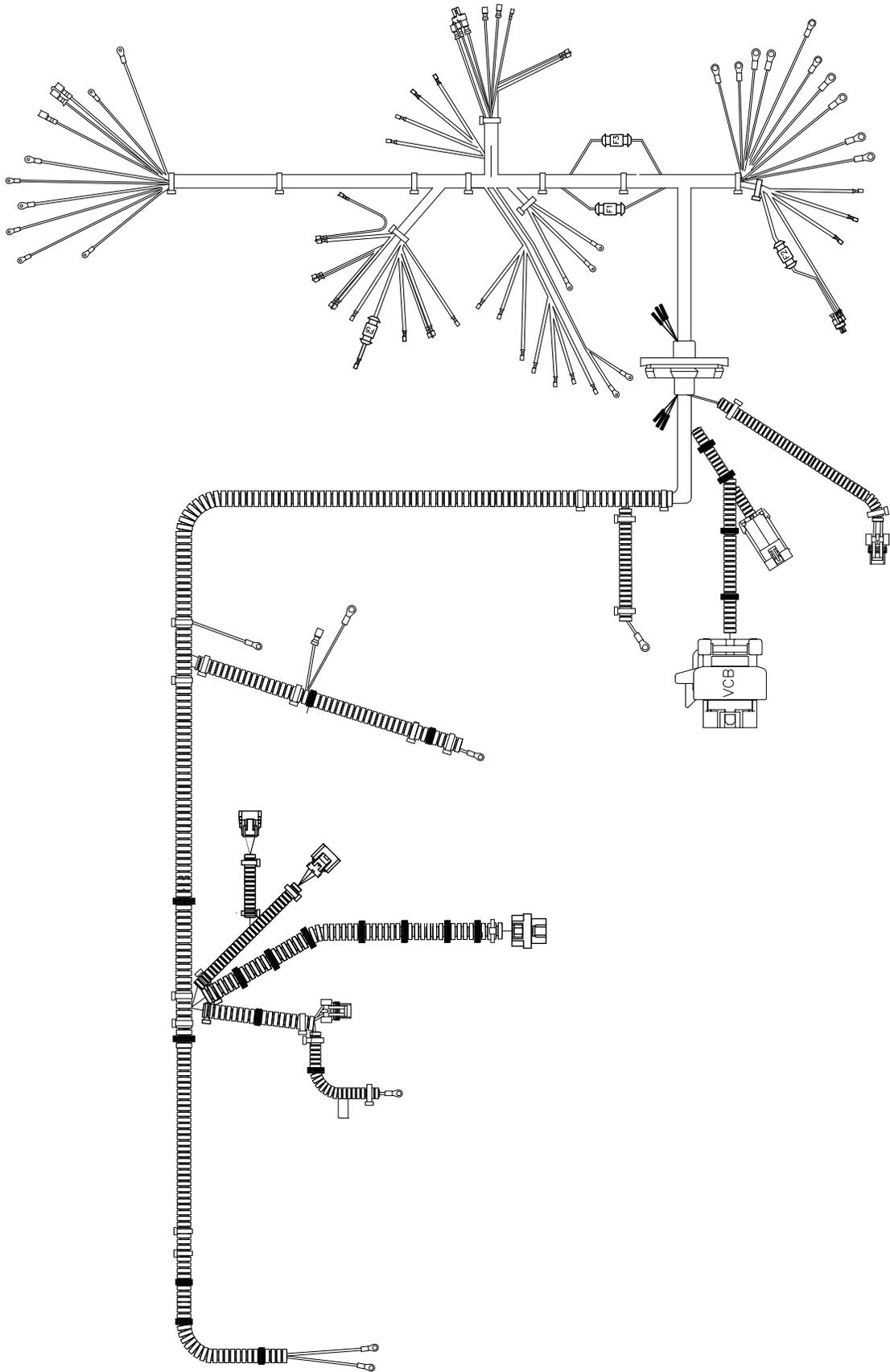
Front View with Cover Removed

Item	Part Number	Description	Qty
	91-00500-07	Control Box Assembly Includes:	1
1	86-05190-02	Box Assembly, Weld	1
2	86-04997-00	Cover	1
3	22-04453-00	Wire Harness, Low Voltage. (See following page for illustration.)	1
4	22-00538-01	Ammeter	1
5	66-U---1--2823	Gauge	1
6	12-00097-03	Gauge	1
8	10-00448-50	Hour Meter	1
9	10-01129-19	Switch, Toggle	1

10 Control Box			
10	10-01129-14	Switch, Toggle	1
11	10-00171-12	Circuit Breaker	2
12	10-00171-13	Circuit Breaker	1
13	10-00286-18	Relay	1
15	66-U---1--9592-13	Standoff	2
17	42-00341-00	Gasket	1
18	34-00655-08	Screw, Cap Hxhd	3
20	--KK--71EW-223	O-Ring	3
21	42-00583-00	Seal	2
23	68-12973-00	Bracket	1
25	58-01508-00	Gasket	1
30	34-00667-08	Nut, Self Lock	6
31	66-U---1--5321-2	Washer, Plain	6
32	66-U---1--5331-3	Washer, Lock	8
34	68-86230-00	Strap Assembly	1
36	58-00079-02	Sta-Strap	10
38	62-02669-01	Label	1
39	66-U---1--3662-21	Label	1
40	66CH---1--1002-5	Label	1
41	66CH---1--1002-4	Label	1
42	34-00667-11	Nut, Self Lock	10
43	34-06212-12	Washer, Plain	3
46	--AU--11JR-171	Washer, Lock	3
53	66CH---1--1002-132	Label	1
54	34-00372-41	Washer, Lock	12
56	--AT--39QA-132	Nut, Hex	6
59	22-01030-54	Diode Assy	1
64	10-00328-06	Relay	1
73	66CH---1--1002-38	Label	1
75	44-00094-09	Clip, Spring	1
76	34-00928-03	Rivet, Blind	2
77	22-02200-06	Washer, Plain	2
78	34-00667-07	Nut, Self Lock	2
79	10-00469-00	Relay, Td	1
80	66-U---1--5321-8	Washer, Plain	2
82	62-10530-25	Label	1
88	34-00665-09	Nut, Hex	2
91	58-00836-13	Spacer	2
92	62-10530-31	Label	1
93	62-10530-32	Label	1
94	10-00488-00	Timer	1
95	10-00286-03	Relay	1
97	58-01427-00	Cap	6
99	58-04842-03	Grommet	1
100	58-04842-02	Grommet	1

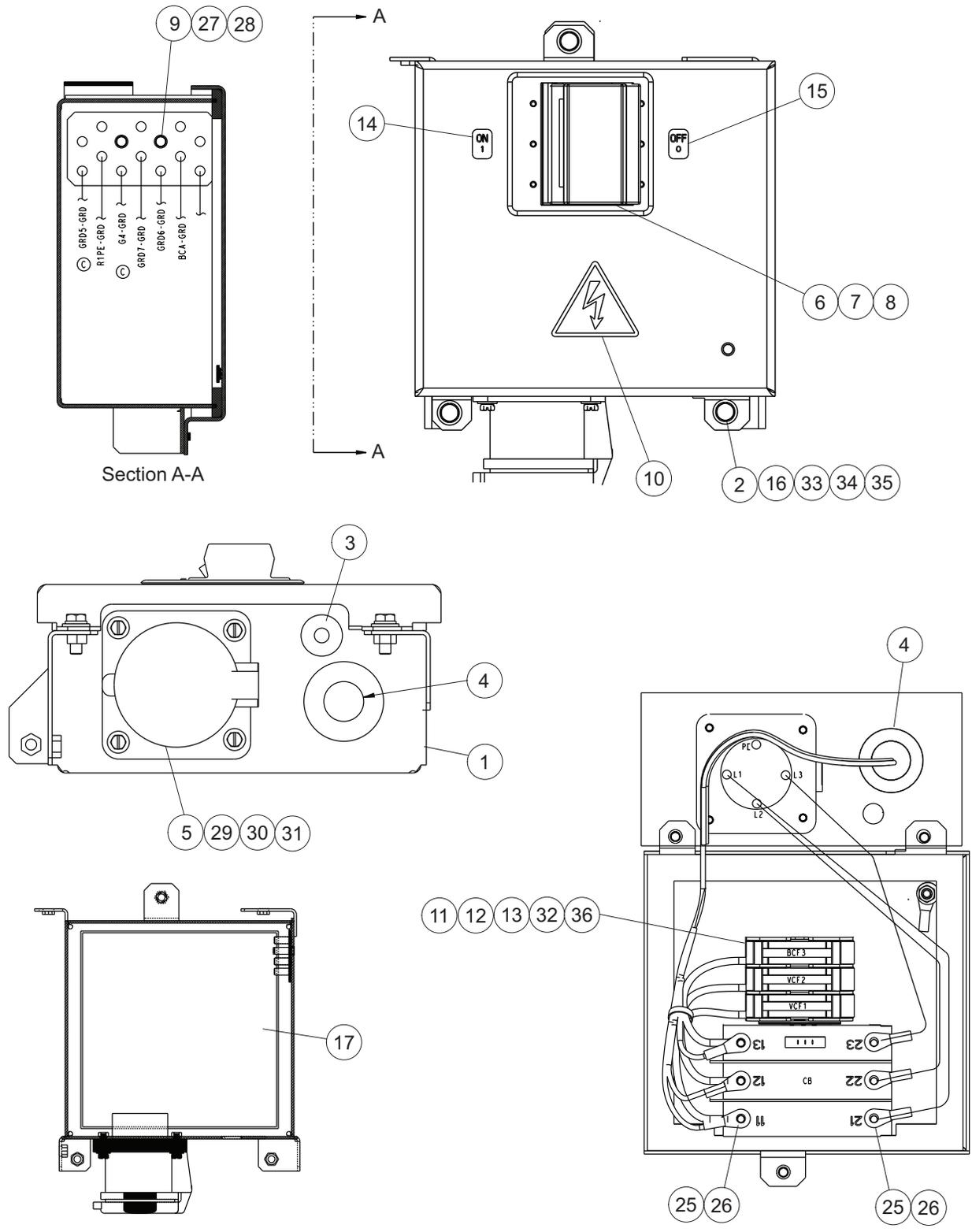
# 10 Control Box

22-04453-00 Wire Harness - Low Voltage





# 11 Receptacle Box

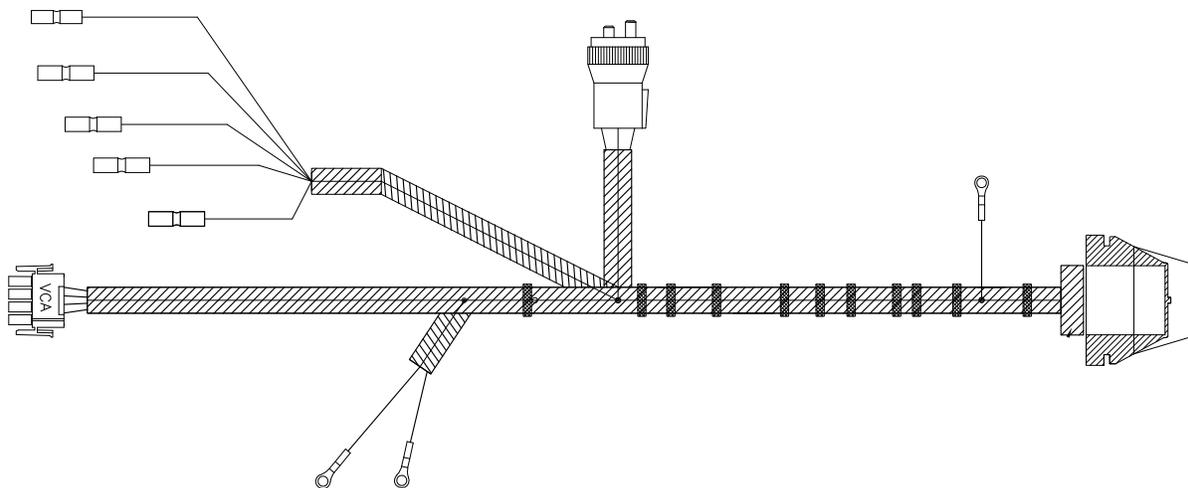


Item	Part Number	Description	Qty
	91-01227-01	Receptacle Box Assembly Includes:	
1	86-03350-00	Box Assembly, Weld	1
2	86-03351-00	Cover, Box	1
3	58-04842-02	Grommet	1

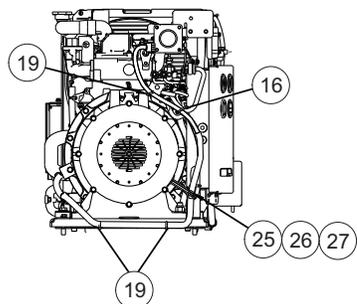
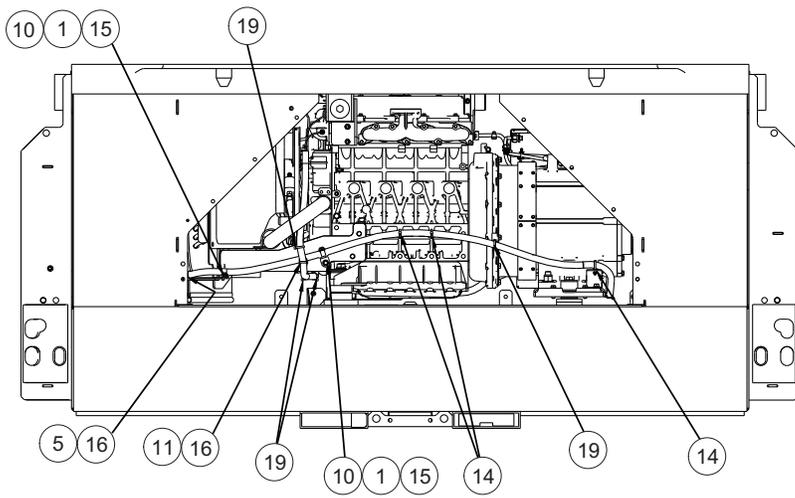
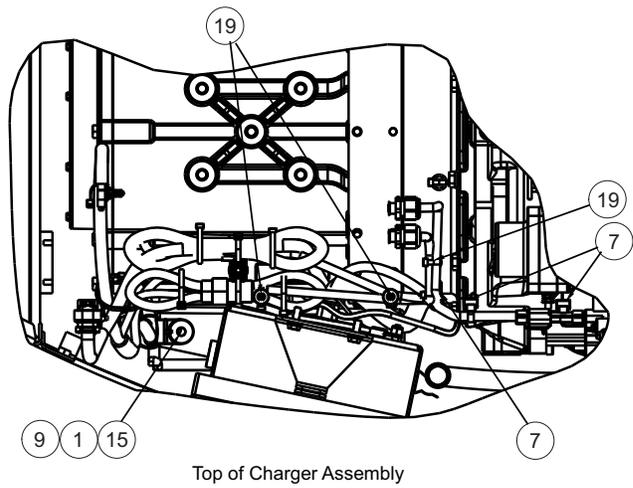
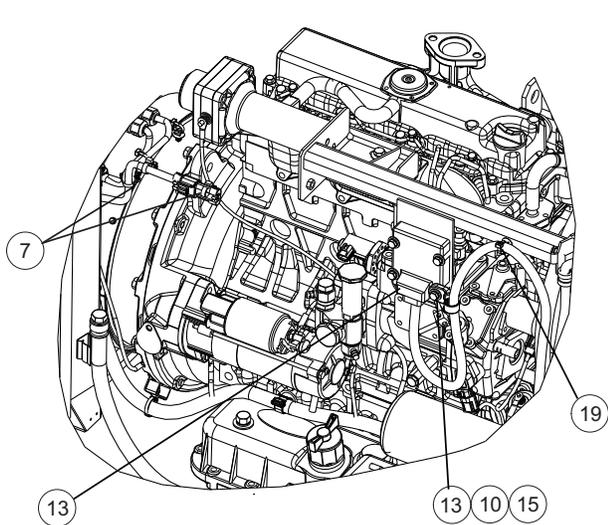
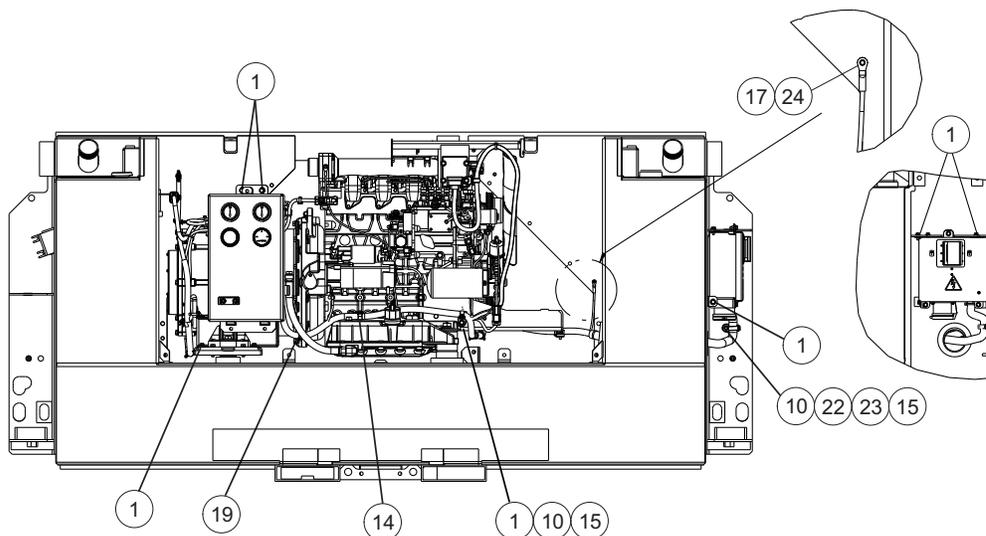
## 11 Receptacle Box

4	22-03222-00	Wire Harness, High Voltage	1
5	22-01679-00	Receptacle	1
6	66-U---1--7842-5	Circuit Breaker	1
7	66CH---1--1092-4	Boot, Frame	1
8	66-U---2--1391-1	Boot	1
9	68-86230-00	Strap Assembly	1
10	62-03957-04	Decal, Warning	1
11	22-04044-02	Fuse Block	1
12	22-04043-01	Fuse	3
13	22-04044-01	Fuse Block	3
14	62-02670-00	Label	1
15	62-02670-01	Label	1
16	42-01325-00	Gasket	1
17	62-04316-00	Label, Schematic	1
25	66-U---1--7842-6	Nut, Hex	9
26	66-U---1--7842-7	Washer, Flat	12
27	34-00372-41	Washer, Lock	10
28	34-00667-11	Nut, Self Lock	10
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	4
32	66-U---1--5321-2	Washer, Plain	3
33	34-00655-06	Screw, Cap Hxhd	3
34	34-06212-12	Washer, Plain	4
35	34-00663-11	Washer, Lock	3
36	34-00666-08	Nut, Hex	3

### 22-03222-00 Wire Harness - High Voltage for Generator, Battery Charger, Voltage Controller and Grounds



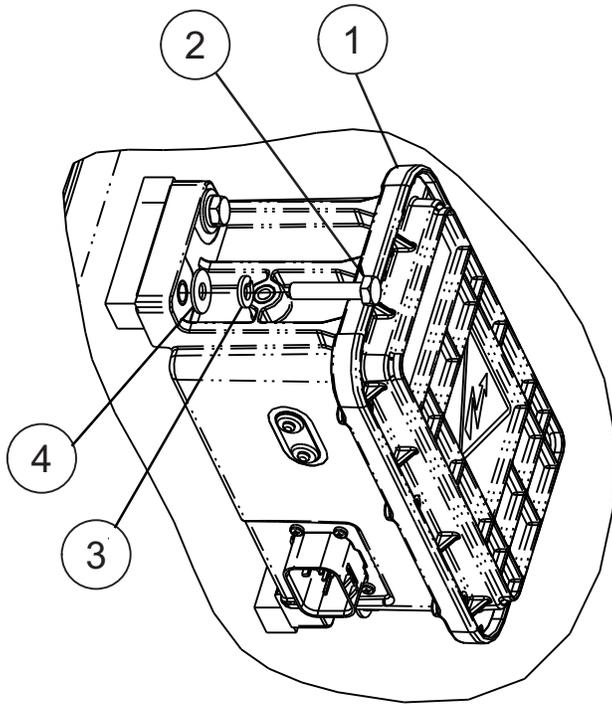
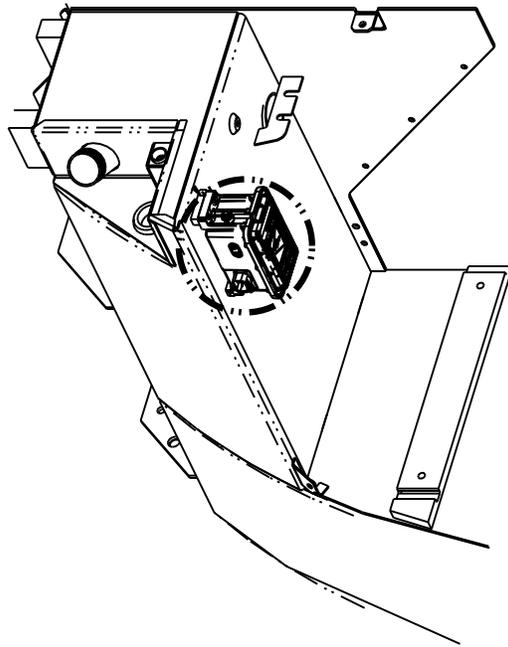
# 12 Voltage Kit



**12 Voltage Kit**

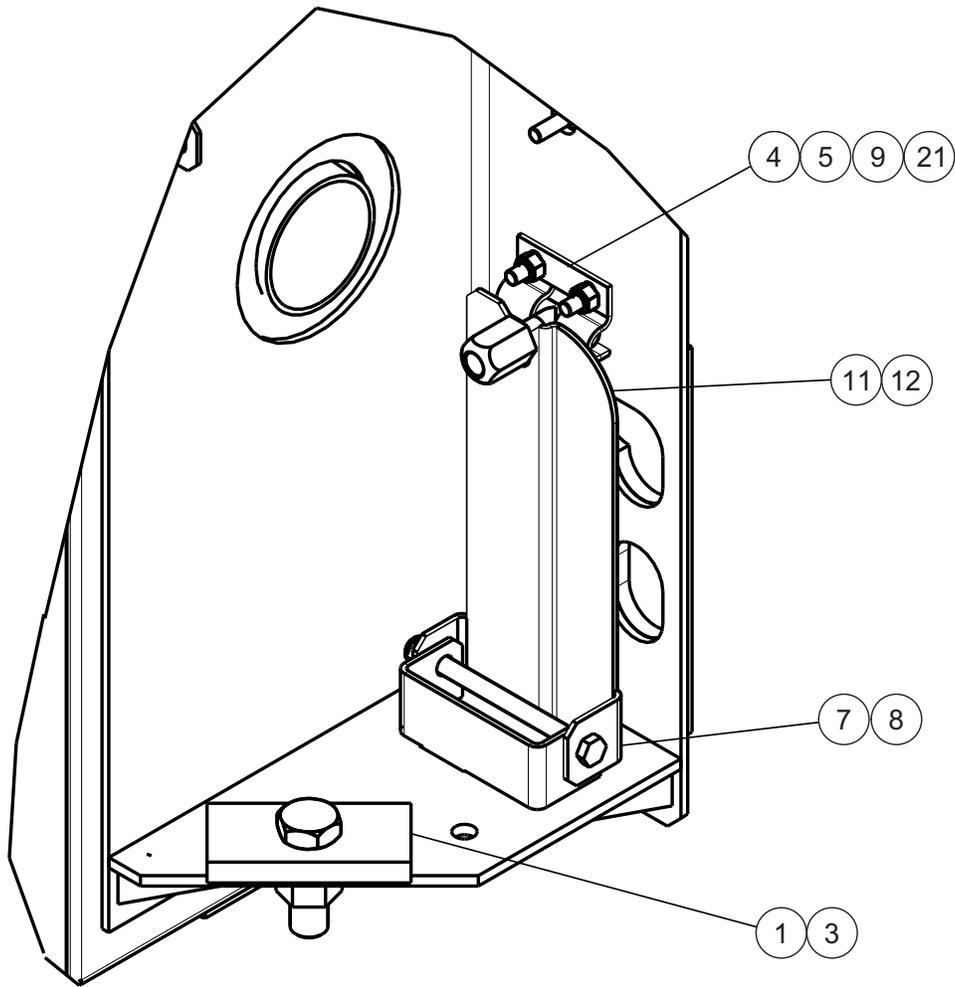
<b>Item</b>	<b>Part Number</b>	<b>Description</b>	<b>Qty</b>
1	34-01422-06	Screw, Cap Hxhd	11
NS	58-01475-00	Mount, Wire Tie	1
7	58-01442-00	Sta-Strap	3
9	58-01447-00	Saddle	1
10	44-60163-00	Clamp	5
11	58-01449-00	Swivel	1
13	34-01422-10	Screw, Cap Hxhd	4
14	58-05100-05	Sta-Strap	4
15	44-60024-25	Sta-Strap	7
16	58-00079-02	Sta-Strap	12
17	34-00667-111	Nut, Self Lock	1
19	58-05100-00	Sta-Strap	11
22	34-00662-12	Washer, Plain	1
23	34-00667-112	Nut, Self Lock	1
24	34-00372-41	Washer, Lock	1
25	58-01303-01	Tube, Heatshrink	5
26	22-01322-00	Tube, Heatshrink	1.15 lf

## 13 Voltage Controller Kit



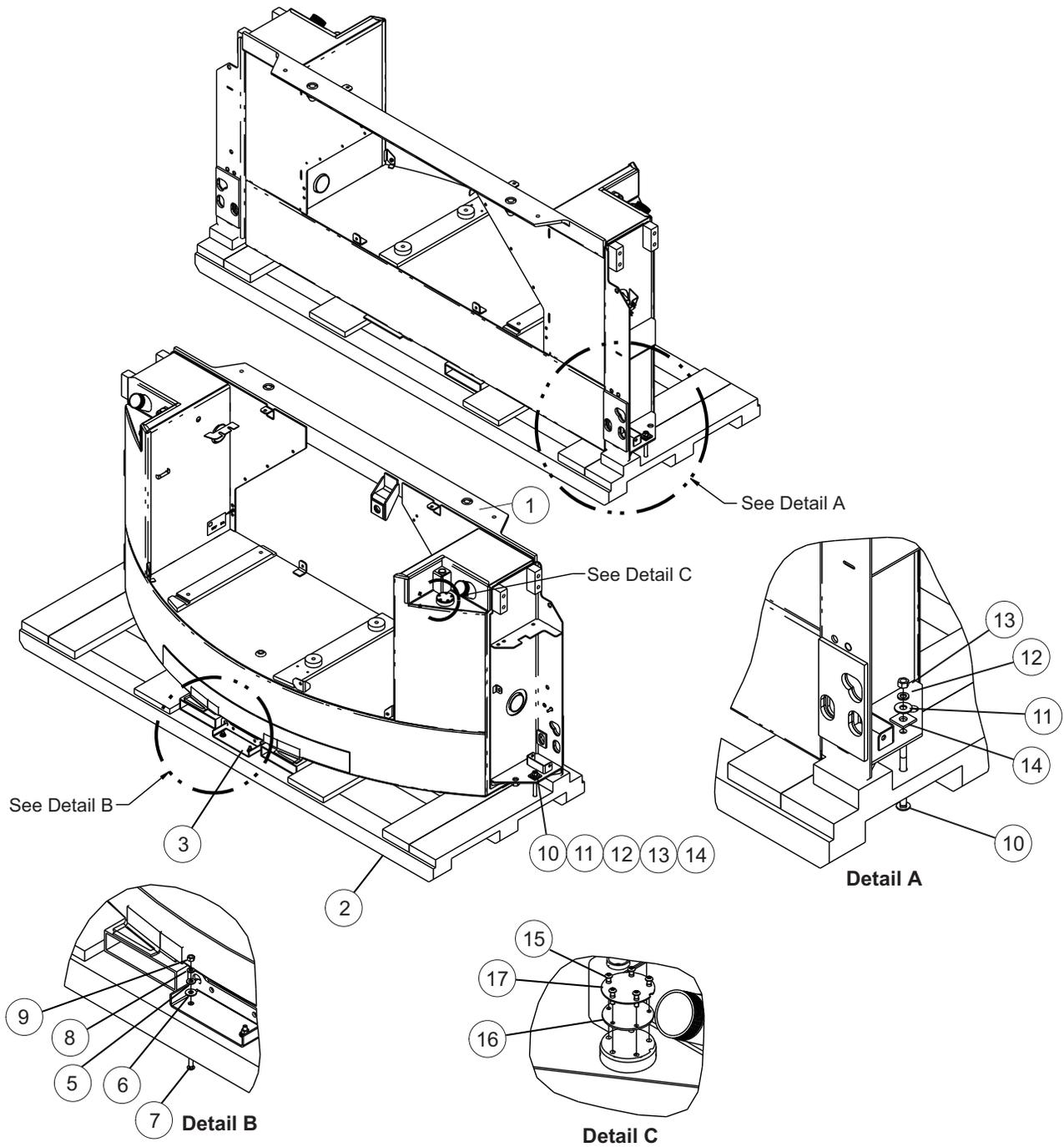
Item	Part Number	Description	Qty
1	12-00707-04	Controller	1
2	34-00655-10	Screw, Cap Hxhd	4
3	34-00663-11	Washer, Lock	8
4	34-00662-11	Washer, Plain	8

## 14 Mounting Kit



Item	Part Number	Description	Qty
1	34-06149-04	Screw, Hxhd	2
3	68-17754-00	Block	2
4	68-17757-00	Bracket, Mtg	2
5	34-00667-12	Nut, Self Lock	4
7	34-00667-13	Nut, Self Lock	2
8	34-06200-00	Screw, Cap Hxhd	2
9	86-03240-00	T-Bolt Assembly	2
11	68-12998-01	Retainer, Left-Hand Side	1
12	68-12998-01	Retainer, Right-Hand Side	1
21	66-U---1--5321-4	Washer, Plain	4

# 15 Frame Assembly with Fuel Tank

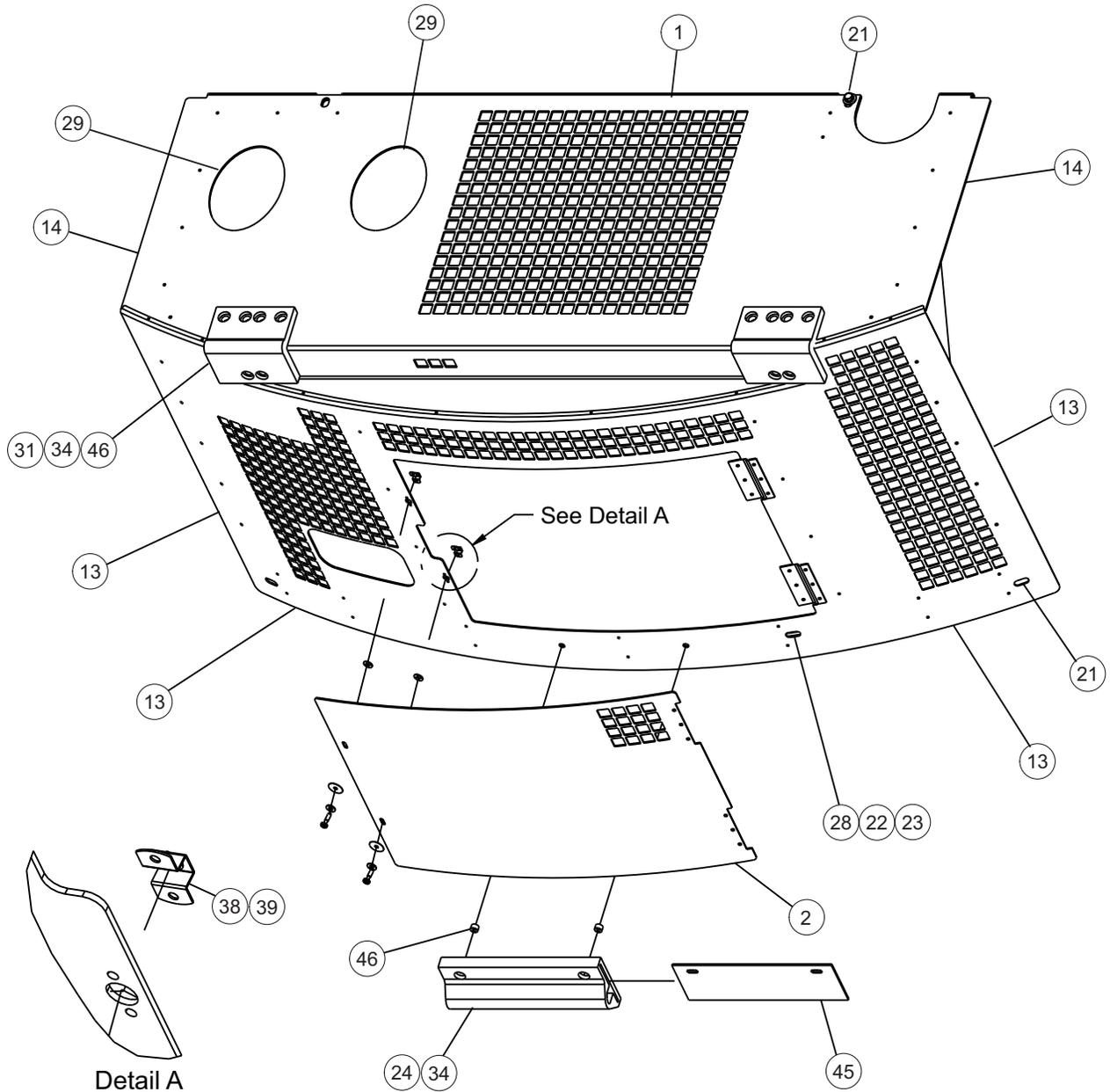


Item	Part Number	Description	Qty
1	86-04301-28	Tank Assembly, Fuel	1
2	64-00369-00	Skid	1
3	68-12784-01	Bracket	1
5	34-00588-12	Washer, Plain	2
6	34-00366-12	Washer, Plain	2
7	34-00354-16	Bolt, Carriage	2

**15 Frame Assembly with Fuel Tank**

8	34-00368-12	Washer, Lock	2
9	34-00363-12	Nut, Hex	2
10	34-00357-24	Bolt, Carriage	2
11	34-00366-15	Washer, Plain	2
12	34-00368-15	Washer, Lock	2
13	34-00363-15	Nut, Hex	2
14	69GC--15--1662	Spacer	2
15	34-01349-00	Screw, Button Hd	5
16	42-01298-00	Gasket	1
17	68-08552-01	Cover	1

# 16 Skins Kit

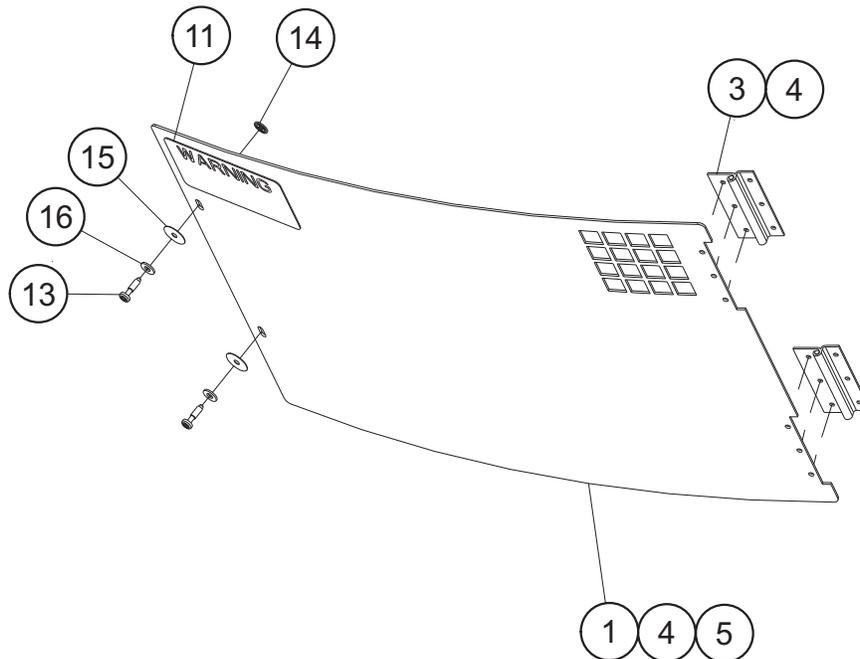


Item	Part Number	Description	Qty
1	86-04792-06	Cover Assembly	1
2	79-01674-08	Door Assembly (See following page for complete assembly)	1
13	42-00363-01	Gasket	4
14	42-00363-00	Gasket	2
21	34-01423-08	Screw, Cap Hxhd	4
22	34-00663-12	Washer, Lock	1
23	34-00662-12	Washer, Plain	1
24	58-04402-00	Bumper	1
28	66-U---1--5361-38	Bolt, Mach Hxhd	1

## 16 Skins Kit

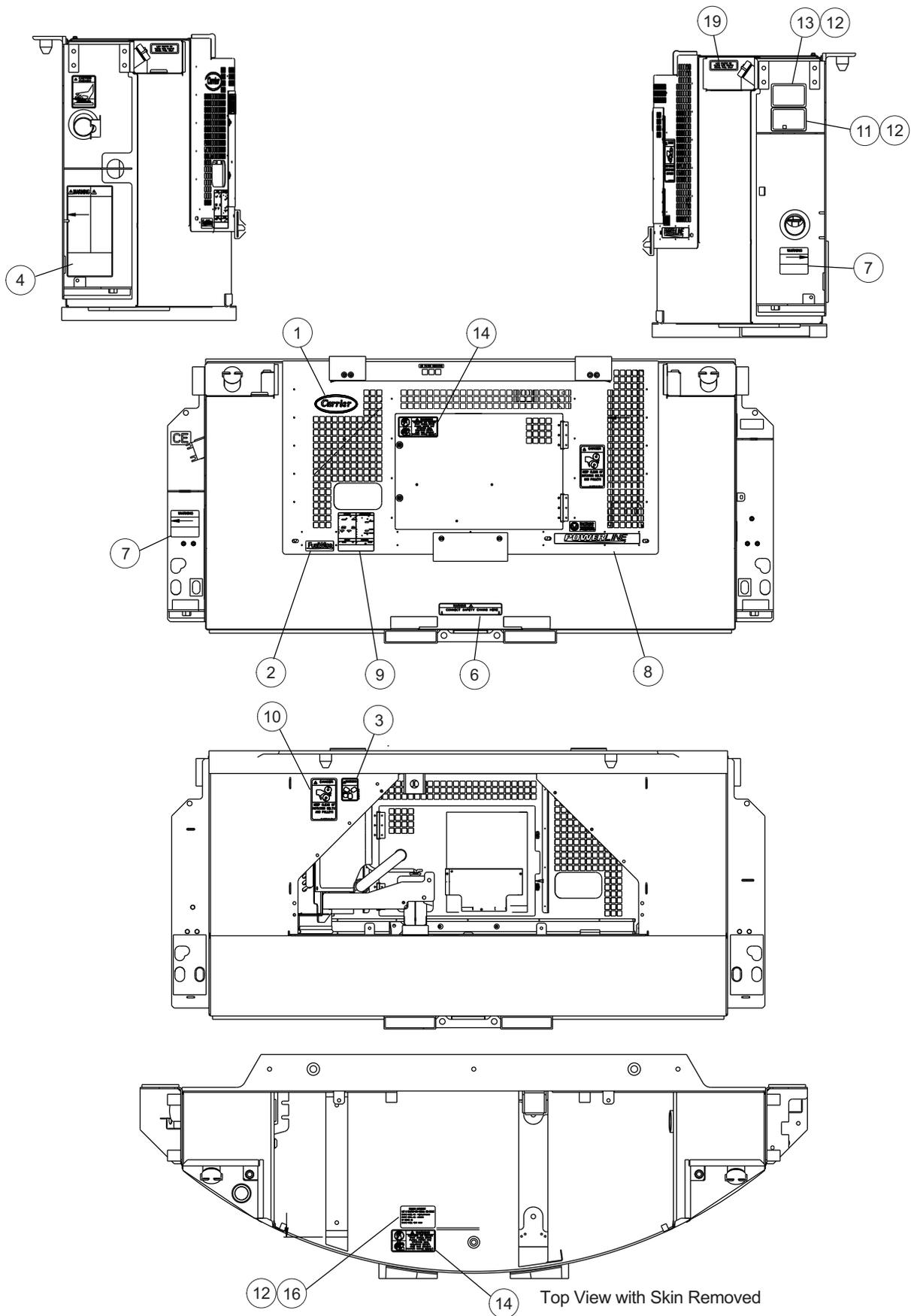
29	66CH---1--1172-114	Trim, Flexible	2
31	58-04433-00	Bumper	2
34	34-01422-08	Screw, Cap Hxhd	10
38	34-01142-01	Receptacle	2
39	34-00928-01	Rivet, Blind	4
45	68-13483-00	Plate	1
46	58-00836-23	Spacer	10

### Door Assembly 79-01674-08



	79-01674-08	Door Assembly - Includes:	1
1	68-12540-00	Access Door	NSS
3	44-00352-01	Hinge	2
4	34-00928-13	Rivet, Blind	12
5	66-U---1--2552-124	Gasket	2
11	62-11302-00	Decal	1
13	66-U---1--6811-12	Screw, Retaining	2
14	34-01226-00	Washer, Retaining	2
15	34-06053-03	Washer	2
16	66-U---1--5321-3	Washer, Plain	2

# 17 Labels and Decals



## 17 Labels and Decals

Item	Part Number	Description	Qty
1	62-60390-03	Decal, Carrier	1
2	62-11588-00	Label, FuelWise	1
3	62-02895-00	Label, Fan Warning	3
4	62-02899-04	Label, Installation	1
6	62-02896-00	Label, Safety Chains	1
7	62-02897-00	Label, Warning, Bolt Torque	2
8	62-04191-00	Label, RG PowerLINE	1
9	62-02717-08	Label, T4I Std, Start/Stop	1
10	62-02898-00	Label, Danger-Rotation	2
11	62-10572-00	Label, Genset	1
12	62-10391-01	Label, Protective	3
13	62-10571-00	Label, Genset	1
14	62-11302-00	Decal, Warning (Ether)	2
16	62-10572-02	Label, RG/UG Emissions	1
19	62-02181-02	Decal, ULSD Fuel Only	1

# 18 Label, Schematic

### CONTROL BOX PANEL & COMPONENTS REMOVED

### CONTROL PANEL SHOWN FROM BACK SIDE AS REMOVED FROM BOX

VIEW A--A

VIEW B--B

FUEL SPECIFICATION		INSTRUCTIONS FOR BLEEDING FUEL SYSTEM
WINTER	DIESEL NO. 1	
SUMMER	DIESEL NO. 2	
CETANE NO.: F41		
(IGNITION QUALITY)		
LUBE OIL SPECIFICATIONS		
ANY BRAND OF OIL THAT MEETS OR EXCEEDS MIL-L-46152/API "CG" 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	

SEE RECEPTACLE BOX ACCESS PANEL FOR VC/BC HV CIRCUIT DIAGRAM

LINE	SYMBOL	LEGEND
7	●	SPLICE
3,4,9,10,13	⊥	ENGINE GROUND
2	A	AMMETER
2	BAT	BATTERY
13,14	BC	BATTERY CHARGER
2,5,8	CB	CIRCUIT BREAKER
12	D	DIODE
6	EG	ELECTRONIC GOVERNOR MODULE
5	ESS	ENGINE SPEED SENSOR
5,6,7,8	F	FUSE
6	FS	FUEL SOLENOID
8	FHT	FUEL HEATER, INTEGRATED
2,10	HR	INTAKE HEATER RELAY
3,4	HS	HEATER SWITCH
4	HWT	HIGH WATER TEMP. SWITCH
7,8	IGN	IGNITION SWITCH
3	IH	INTAKE HEATER
10	IHT	INTAKE HEATER TIMER
5	LOP	LOW OIL PRESS. SWITCH
9	OPG	OIL PRESSURE GAUGE
9	OPS	OIL PRESSURE SENDER
4,7	S	SAFETY RELAY
2	SM	STARTER MOTOR
—	SP	SPLICE POINT
2,9	SS	STARTER SOLENOID
9,10	SSR	STARTER SOLENOID RELAY
9	SST	STARTER SOLENOID TIMER
11	TT	TIME METER
12	VC	VOLTAGE CONTROLLER
10	WTG	WATER TEMP. GAUGE
10	WTS	WATER TEMP. SENDER

62-11975-00 REV B

Item	Part Number	Description	Qty
1	62-11975-00	Label, Schematic	1

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