



**Aviation
Ground
Equipment Corp.**

HOBART®
GROUND POWER

Illustrated Parts List for 180CU20

180 kVA, 3 Phase, 115/200 Volt,
400 Hz. Generator Set



Series 500181A

Chapter 1 Illustrated Parts List

Section 1 Introduction

The illustrated parts list identifies, describes, and illustrates main assemblies, subassemblies, and detail parts of the 28.5 VDC Solid State Converters manufactured by Hobart Ground Power Division, Troy, Ohio, USA.

The purpose of this list is to provide parts identification and descriptive information to maintenance and provisioning personnel for use in provisioning, requisitioning, purchasing, storing, and issuing of spare parts.

This illustrated parts list chapter contains the following sections:

Section 1 – Introduction (this section)

Section 2 - Parts List

Section 3 - Numerical index

1) Which Parts Are Included

The parts list contains a breakdown of the equipment into assemblies, subassemblies, and detail parts. All parts of the equipment are listed except:

- Standard hardware items (attaching parts) such as nuts, screws, washers, etc., which are available commercially
- Bulk items such as wire, cable, sleeving, tubing, etc., which are commercially available
- Permanently attached parts, which lose their identity by being welded, soldered, riveted, etc., to other parts, weldments, or assemblies

2) Explanation of the Parts List Columns

The chart below shows an example of the parts list form. The form has six standard columns.

FIGURE ITEM NO.	HOBART PART NO.	DESCRIPTION	EFF	UNIT PER ASSY.
9 - 1		12 VDC Battery Components (See Figure 14)		Ref.
	2 288910	Support, Battery Tray		1
*	289239	...Pad, Battery Tray		1
	3 285102-001	Current, Transformer (V05HB5 # 20130)		1
*	4 290145	Sensor, Coolant Level		1
	5 288914	Board, PC, T-R	C,D,J,K	1
*	6 7J422-000	Clamp, Cable	A,B,F,G,H,M	4

Sample Parts List



The **figure number**, shown in the first column on the left, shows the number of the illustration that identifies the parts. An asterisk (*) in this column indicates that the item is not shown on the diagram.

The **item number** column shows the number of the part called out in the diagram. Parts that are subassemblies of numbered parts are generally not identified on the diagram and not given an item number. The numerical index (Chapter 4, Section 4) combines the figure and item numbers to assist the user in finding the illustration of a part when the part number is known. For example, "1-3" refers to the part for Figure 1, Item 3.

All part numbers appearing in the **Hobart Part No.** column are Hobart part numbers. Hobart part numbers are generally either six digits or six digits with three dash numbers. Items that do not have part numbers are reference assemblies rather than physical parts.

The **Description** column contains the identifying names for the parts. An indentation of the part name (starting with three dots ...) indicates that the part is component of the non-indented assembly listed above it. The Description column may also contain vendor codes and vendor part numbers for purchased parts when applicable. These codes and part number are shown in parentheses with the vendor code preceded by the letter "V" and vendor part number preceded by the pound sign (#). Chapter 4, Section 2 provides a list of vendor codes with vendor contact information.

The **EFF** (effective) column is used to indicate the applicability of parts to different models of equipment. When more than one model of equipment is covered by a parts list, some parts are used on only one model. This column is used for insertion of a code letter A, B, etc., to indicate these parts and to identify the particular model they are used on. If the part has no letter code in the EFF column, that part is used on all models.

EFF Code	Part & Dash Number	Mounting	Generator Meters	AC Outputs	28.5 V DC Output	Fuel Tank
A	500181A-001	Trailer	Analog	2	--	Stainless
B	500181A-002	Fixed/Truck	Analog	2	--	Stainless
C	500181A-003	Trailer	Digital	2	Yes	Stainless
D	500181A-004	Fixed/Truck	Analog	2	Yes	Stainless
E	500181A-005 (Special Configuration)	Trailer	Digital	2	--	Stainless
F	500181A-006 (Special Configuration)	Trailer	Analog	2	--	Stainless
G	500181A-101	Trailer	Analog	2	--	Composite
H	500181A-102	Fixed/Truck	Analog	2	--	Composite
J	500181A-103	Trailer	Analog	2	Yes	Composite
K	500181A-104	Fixed/Truck	Analog	2	Yes	Composite
L	500181A-105 (Special Configuration)	Trailer	Digital	2	--	Composite
M	500181A-106 (Special Configuration)	Trailer	Analog	2	--	Composite
N	500181A-107 (Special Configuration)	Trailer	Digital	2	--	Composite

The **Unit per Assy.** column indicates the quantity of parts required for an assembly or subassembly in which the part appears. This column does not necessarily reflect the total used in the complete end item. "Ref." in this column indicates that the item is a reference assembly and not a physical part.

Section 2 Illustrated Parts List

This section contains the following illustrations:

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Parts having an asterisk (*) in the first column of the parts list are not shown in the illustration.

Numbers in parentheses with a "V" prefix are vendor codes (see Section 4-2). A vendor part number, if available, follows the vendor code and has a pound sign (#) prefix.

For more information about formats in this section, refer to Section 4-1. For information about abbreviations used in this manual, refer to the Introduction.

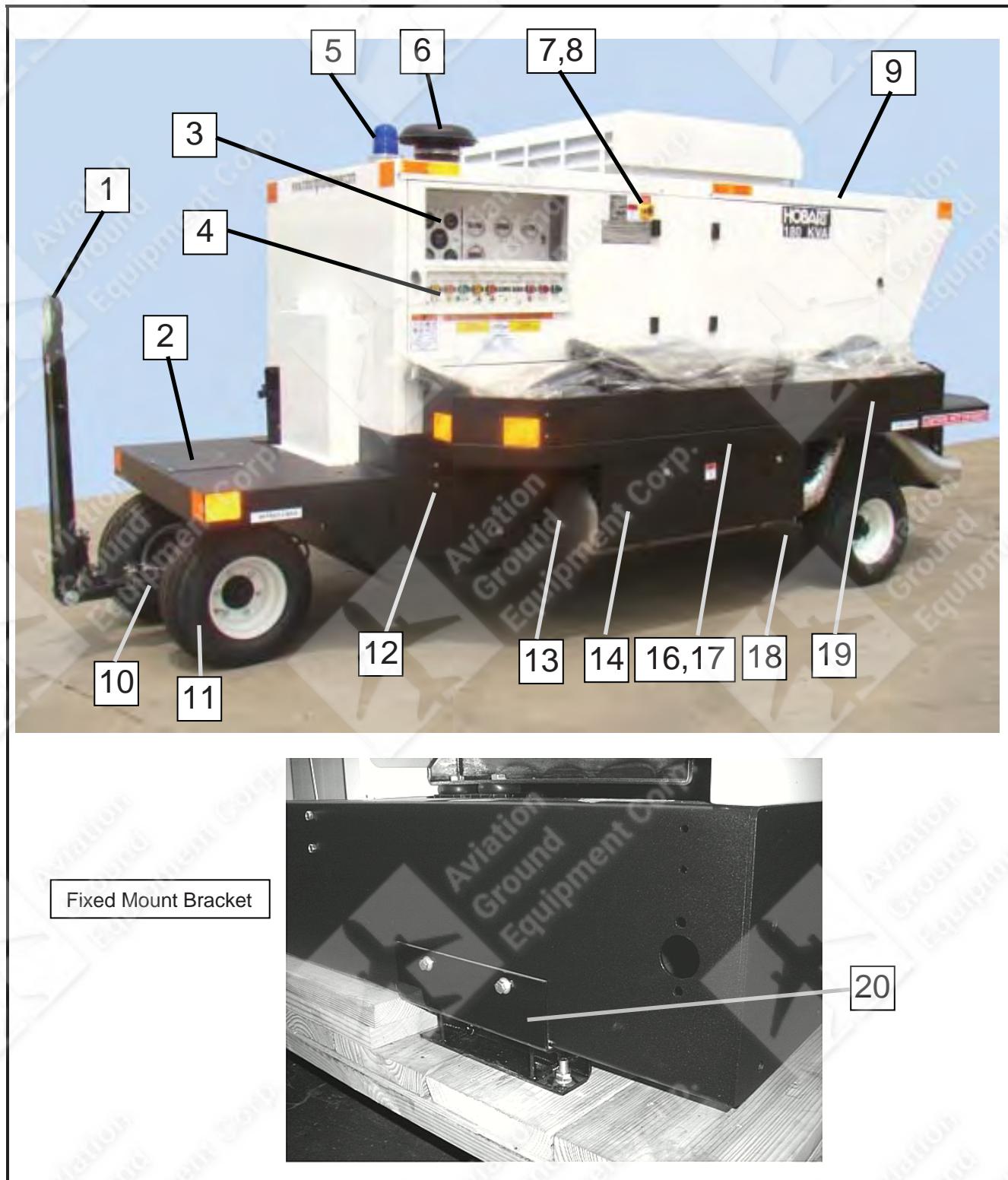


Figure 1: General Assembly

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FIGURE ITEM NO.	HOBART PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
1- 1	286956	Draw Bar	A,C,E,G,J,L,N	1
	286956-001	Draw Bar (Tow Bar Interlock)	F,M	1
2	282667	Bracket, 5 th Wheel Assembly	A,C,E,F,G,J,L,M,N	1
*	282727	...Plate, Cover, Pivot Arm	A,C,E,F,G,J,L,M,N	1
*	280763	...Plate, Bearing	A,C,E,F,G,J,L,M,N	1
*	408781-001	...Pin, Spring	A,C,E,F,G,J,L,M,N	2
3		Control Box Door (See Figure 7)		Ref.
4		Pushbutton Switches (See Figure 9)		Ref.
5		Low Fuel Beacon (optional – see Appendix)		Ref.
6		Weather Hood (See Figure 16)		Ref.
7	285125	Guard, Mushroom Button (V14799 # K564M)	A,B,C,D,E,G,H,J,K,L,N	1
	290779	Guard, Mushroom Button	F,M	1
8	77A1157	Switch, Maintained, Push-Pull (V14799 #KR-9R-H6)	A,B,C,D,E,G,H,J,K,L,N	1
	290468	Switch, Maintained, Push-Pull (Lockable)	F,M	1
	290466	...Block, Contact, E-Stop	F,M	1
	290467	...Base, Mounting, E-Stop	F,M	1
	290474	...Washer, Spacer, E-Stop, Front	F,M	1
	290475	...Washer, Spacer, E-Stop, Back	F,M	1
9		Canopy Assembly (See Figure 4)		Ref.
10	289663	Front, Axle	A,C,F,G,J,M,N	1
	290751	Axle, No Brakes, Heavy Duty, Front	E,L	1
11	289606	Tire, 20.5 x 8.00 – 10, Assembly	A,C,E,F,G,J,L,M,N	4
12		Frame Assembly (See Figure 3)		Ref.
13		Exhaust Components (See Figure 14)		Ref.
14	287491	Shield, Heat, Tray, Cable	A,C,E,F,G,J,L,M,N	1
*	15	Bumper, Side (right)	A,C,E,F,G,J,L,M,N	1
*	16	Bumper Assembly with Exhaust Guard	A,C,E,F,G,J,L,M,N	1
*	17	Support, Fender	A,C,E,F,G,J,L,M,N	4
*	18	Rear, Axle	A,C,F,G,J,M,N	1
	289607	Axle, With Brakes, Heavy Duty, Rear, Assembly	E,L	1
*	19	Tray, Cable, Left	A,C,E,F,G,J,L,M,N	1
*	288694	...Panel, Cable Guide	C,J	1
*	288695	...Cover, Cable	C,J	1
20	287892	Mount, Stationary	B,D,H,K	4
*	21	Tray, Cable, Right	A,C,E,F,G,J,L,M,N	1
*	288698	...Cover, DC Cable	A,E,F,G,L,M,N	1
*	288694	...Panel, Cable Guide	A,C,E,F,G,J,L,M,N	1
*	288695	...Cover, Cable	A,C,E,F,G,J,L,M,N	1
*	22	Clamp, Cable (under cable tray)	A,B,F,G,H,M,N	4
*		Clamp, Cable (when DC is supplied)	C,D,J,K	5
*	23	Clamp, Strain Relief	E,L	2
*	24	Cable Clamp Mounting Bracket	A,B,F,G,H,M,N	2
*		Cable Clamp Mounting Bracket	C,D,J,K	3

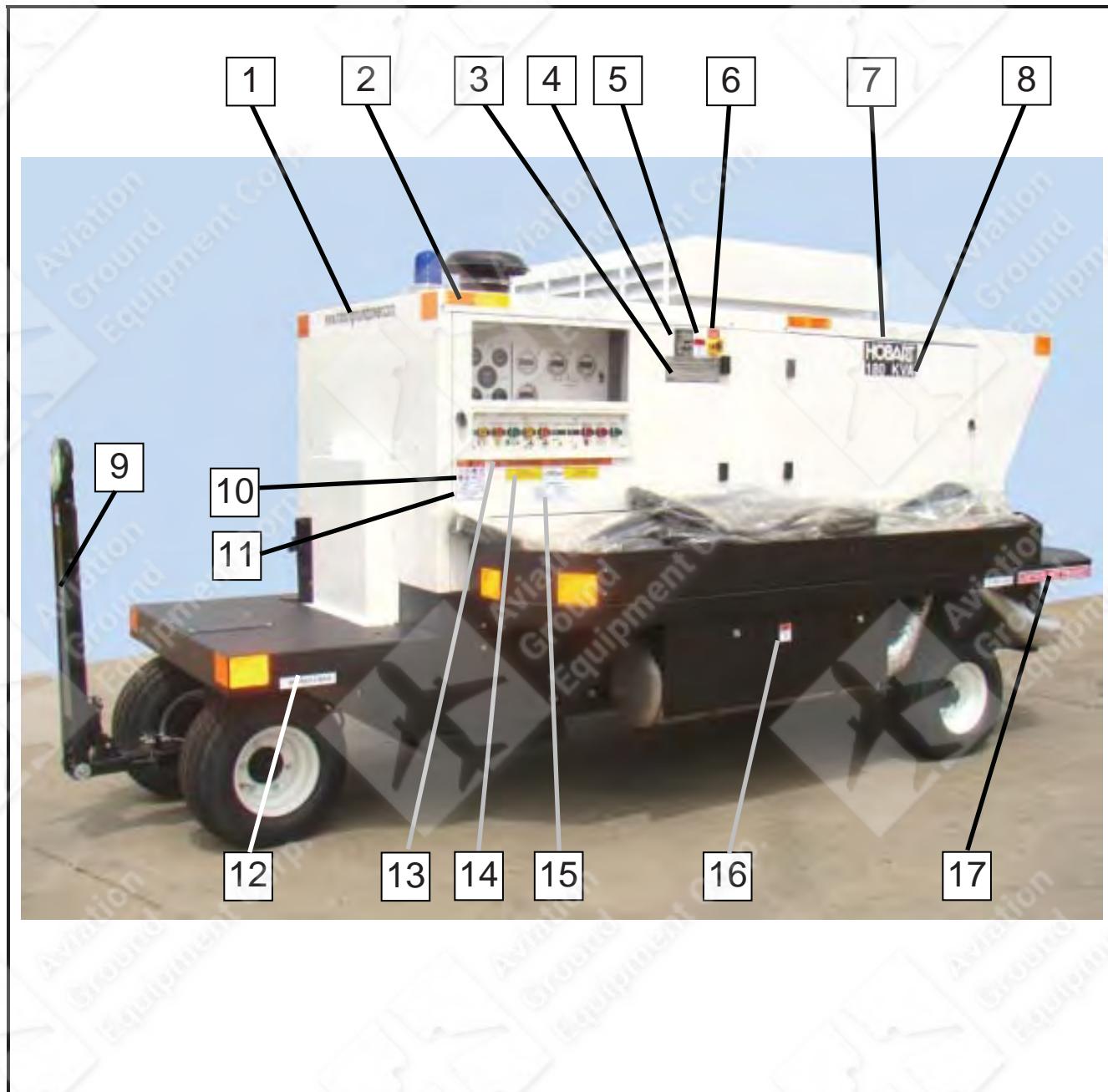


Figure 2: Labels and Reflectors



FIGURE ITEM NO.	HOBART PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
2- 1	289842-001	Label, www.hobartgroundpower.com	A,B,C,D,F,G,H,J,K,M,N	1
2	408665-002	Reflector, Amber (V12662 #B491A)		32
3	291609	Label, Tier 4 TPM		1
4	288917-002	Label, I.D.		1
5	287466	Label, Emergency Stop		1
6	288300	Label, Legend, Emergency Stop		1
7	402987	Label, Hobart		3
*	8 283714-003	Label, kVA Rating		2
*	9 287465	Label, Warning Drawbar	A,C,E,F,G,J,L,M,N	2
*	10 287459	Label, General Warnings		1
11	287696	Label, Hearing Protection		1
12	289678	Label, Tire Pressure	A,C,E,F,G,J,L,M,N	4
13	282658	Label, Warning Clearance		1
14	288862	Label, Caution, Engine Speed		1
15	288866	Label, Support Center		1
16	287463	Label, Hot Muffler		2
17	290885	Label, Caution: Hot Exhaust		1
*	18 287460	Label, High Voltage	A,B,E,F,G,H,L,M,N	1
*	19 287460	Label, High Voltage	C,D,J,K	2
*	20 287461	Label, Fuel		1
*	21 287462	Label, Radiator		1
*	22 287464	Label, Moving Parts		2
*	23 287467	Label, Glow Plug		2
*	24 288872	Label, Command & Fault		1
*	25 288918-002	Label, Options (Inside Control Box)		1
*	26 289127	Label, Option Terminal Block		1
*	27 290216	Label, Low Emission		1
*	28 290695	Label, Oil Replenishment System	F,M	1
*	29 290836	Label, Radiator Fill Rate		1
*	30 290837	Label, Cables Supplied	E,L	1
*	31 76B1148	Label, Diesel Fuel	A,B,C,D,E,G,H,J,K,L,N	1
*	32 290838	Label, Diesel Fuel Only	F,M	1
*	33 290842	Label, Open-Closed, Ball Valve		1
*	34 290858	Label, Radiator Fill Instructions		1
*	35 408665-001	Reflector, Red (V12662 #B491)(on back)		20
*	36 82A1070	Nameplate, ID		1

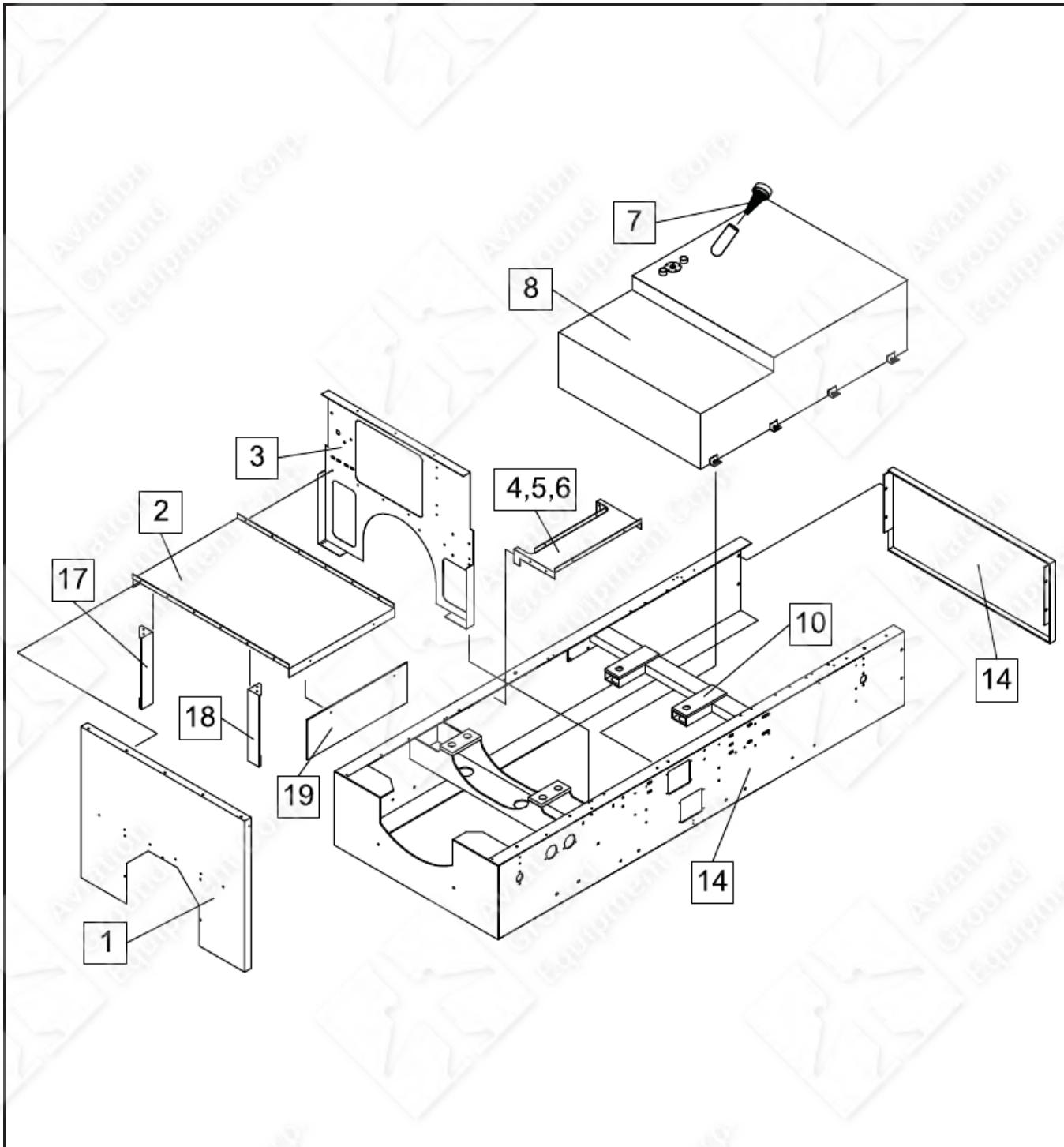


Figure 3: Frame Assembly

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FIGURE ITEM NO.	HOBART PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
3 - 1	288879	Panel, Front Canopy		1
*	287738-025	...Insulation, Top		1
*	287738-029	...Insulation, Left Center		1
*	287738-030	...Insulation, Left		1
*	287738-031	...Insulation, Right Center		1
*	287738-032	...Insulation, Right		1
2	290596	Support, Control Box		1
3	290733	Panel, Bulkhead, Center		1
4	289224	Tray, Battery		1
5	289223-001	Battery Tray, Bracket, Right		1
6	288910	Support, Battery Tray		1
*	289239	...Pad, Battery Tray		1
7	282562	Cap, Fuel (V49234 #1275/0003)		1
8	290780	Tank, Fuel, 125 Gallon (stainless)	A thru F	1
	486719-014	...Sender, Gauge, Fuel, 12V		1
9	290750	Kit, Composite, Fuel Tank	G thru N	Ref.
	290746	...Belly Pan, Fuel, Tank, 125 Gallon	G thru N	1
	290680	...Tank, Fuel, Composite, 125 Gallon	G thru N	1
	486719-014	...Sender, Gauge, Fuel, 12V		1
	290747	...Strap, Support, Fuel Tank, 125 Gallon	G thru N	1
	290748	...Strap, Mounting, Fuel Tank, 125 Gallon	G thru N	1
	290267	...Rubber, Strap, Fuel Tank	G thru N	1
	290861	...Shield, Heat	G thru N	1
	290640	...Bracket, Shield, Heat	G thru N	1
10	289577	Support, Engine, Front		1
*	480603-001	...Mount, Shock, Engine		2
*	11 290081	Panel, Bottom, Belly Pan		1
*	287738-003	...Insulation, Bottom, Panel		1
*	287738-015	...Insulation, Noise, Bottom, Generator		2
*	12 289693	Cover, Bottom, Baffle		1
*	13 289690	Baffle, Bottom, Belly Pan		1
*	14 289479	Frame, Mounting		1
*	15 290593	Frame, Mounting, Plate		1
*	16 287506	Cover, Frame, Exhaust		2
*	17 291175	Leg, Control Box Support, Left		1
*	18 288693	Leg, Control Box Support, Right		1
*	19 290835	Cover, Power Module		1

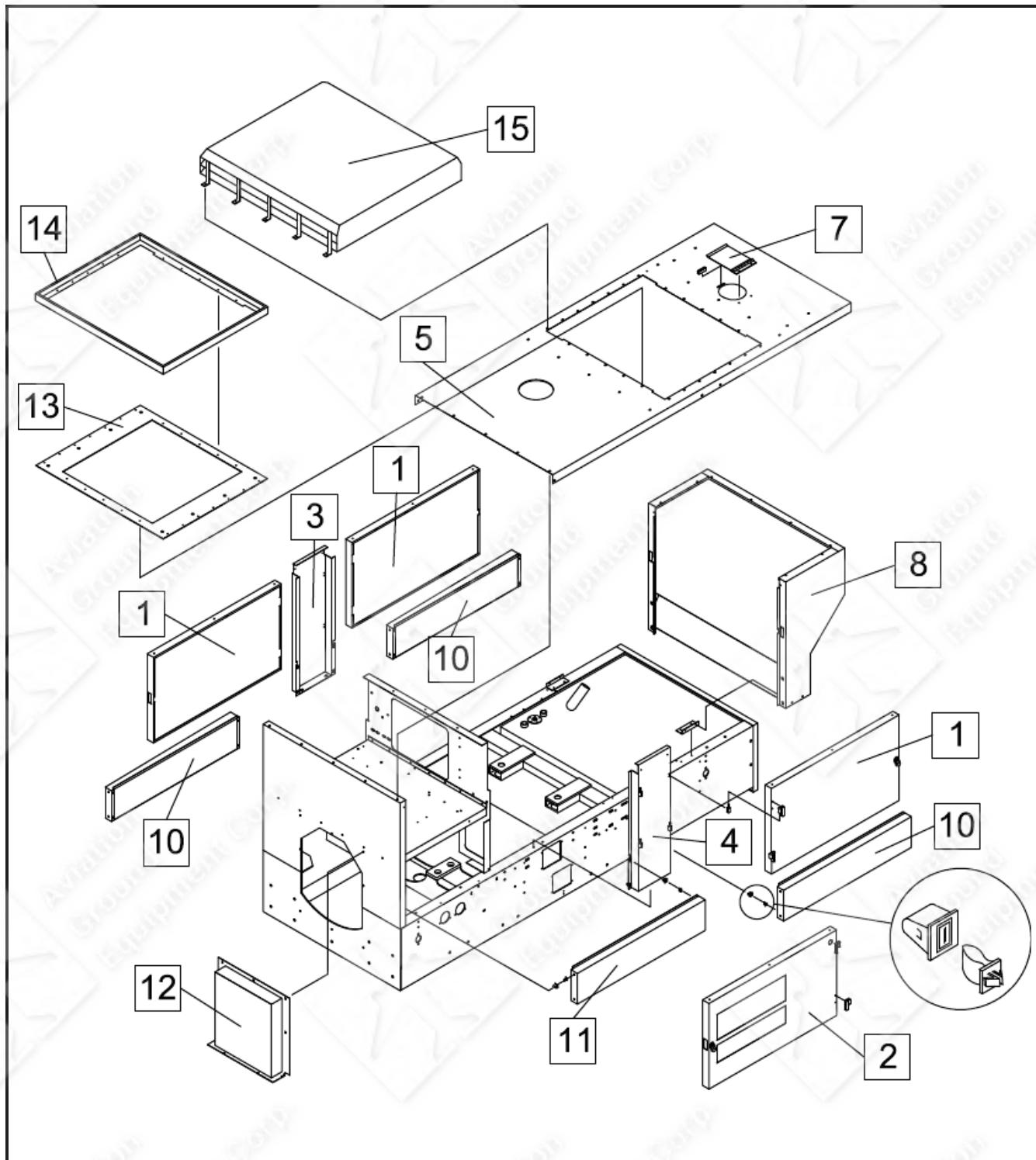


Figure 4: Canopy Assembly

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FIGURE ITEM NO.	HOBART PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
4 - 1	287701	Door, Assembly (see Figure 5)		3
	288880	Door, Control Box (see Figure 5)		1
	291617	Panel, Support, Door, MD		1
*	290730-001	...Insulation, Noise, Support, Door		1
	290591	Panel, Support, Door		1
*	290730-002	...Insulation, Noise, Support, Door		1
*	290730-003	...Insulation, Heat Shield, Support, Door		1
5	290769	Top, Canopy Assembly		1
*	290730-004	...Insulation, Noise, Canopy Top, Front		1
*	290730-005	...Insulation, Noise, Canopy Top, Rear		1
*	6 290768	Frame, Mount, CAC		1
	7 283647	Door, Radiator Access		1
	403127	...Catch, Magnetic (V94222 #02-10-201-10)		1
8	290785	Kit, Plenum, Reduction, Noise		Ref.
	290729	Plenum, Reduction, Noise		1
*	287738-012	...Insulation, Noise, Plenum, Rear		1
*	287738-013	...Insulation, Noise, Plenum, Left		1
*	287738-014	...Insulation, Noise, Plenum, Right		1
*	287793	...Bracket, Mounting Plenum		2
*	287794	...Door, Access, Fuel, Cap		1
*	403127	...Catch, Magnetic		1
*	9 287800	Screen, Plenum		1
10	287703	Panel, Side, RR, RF & LR		3
*	287738-004	...Insulation, Noise, Lower Panel (RR, RF & LR)		3
*	287785	...Fastener, Panel, Access (VA5733 #7800-00 & #263-000006-00-0017)		12
11	288878	Panel, Side, Left Front		1
*	287738-027	...Insulation, Noise Lower Panel (LF)		1
*	403091-008	...Plug, Hole, Plastic, 1.75		1
*	287785	...Fastener, Panel, Access (VA5733 #7800-00 & #263-000006-00-0017)		4
12	290634	Cover, Opening, Front Canopy	A,C,E,F,G,J, L,M,N	1
*	290781	Cover, Opening, Front Canopy	B,D,H,K	1
13	290773	Mat, Rubber, Hood		1
14	290770	Hood, Bottom		1
15	290771	Hood, Top		1

A,C,E,F,G,J,L,M,N are trailer-mount
B,D,H,K are fixed/truck-mount

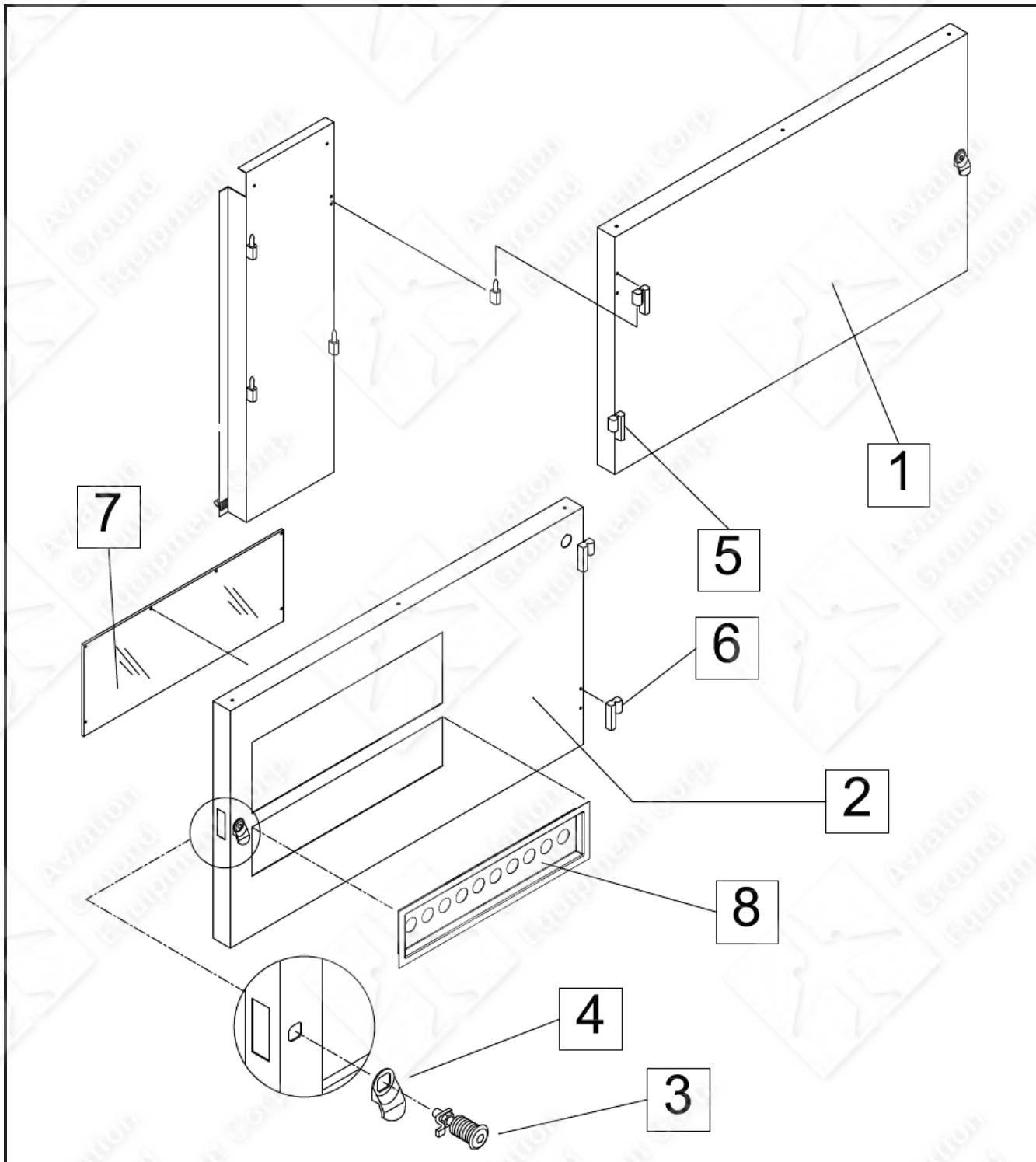


Figure 5: Canopy Doors

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FIGURE ITEM NO.	HOBART PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
5 - 1	287701	Door, Assembly		3
*	287738-001	...Insulation, Noise, Door (RR and LR)		2
*	290730-006	...Insulation, Noise, Door, Right		1
2	288880	Door, Control Box		1
*	287738-028	...Insulation, Noise, Door		1
3	287542-001	Latch, Door (V94222 #E3-16-15)	All except E,L	4
3	287542-002	Latch, Door, T-Handle, Lockable	E,L	4
4	287526-002	Tab, Pull, Door Latch (V94222 #E3-27-1)	All except E,L	4
5	283824	Hinge, RH Access Door (V94222 #96-10-520-50)		4
6	283597	Hinge, LH Access Door (V94222 #96-10-510-50)		4
7	288881	Window, Control Side Door		1
8	291679	Guard, Button		1
*	291681	...Channel, Bottom, Button Guard		1
*	291682	...Channel, Left, Button Guard		1
*	291683	...Channel, Right, Button Guard		1
*	291684	...Shim, Button Guard		1

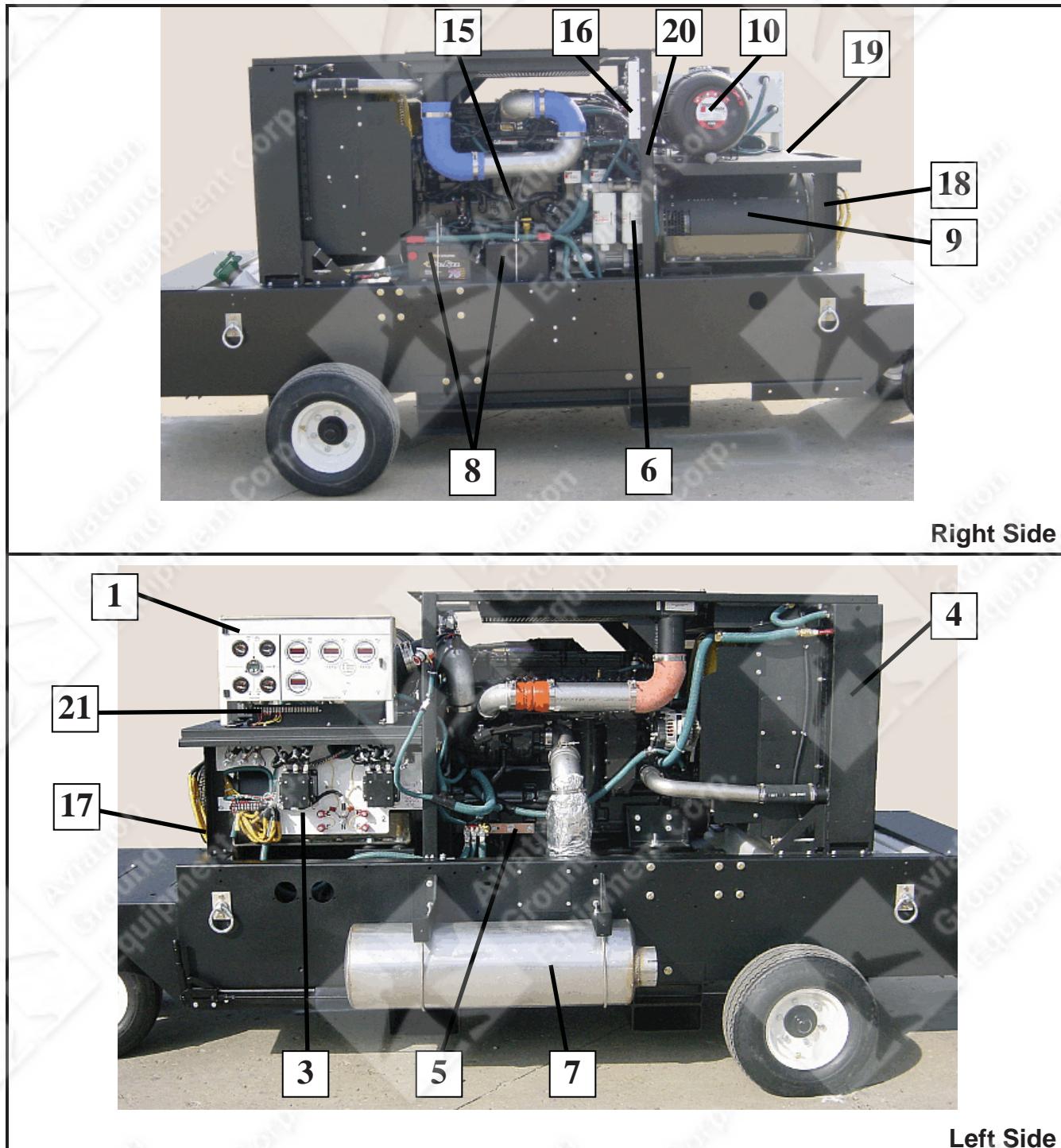


Figure 6: Internal Components

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FIGURE ITEM NO.	HOBART PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
6 -		Left Side		
1	289019-014	Control Box Assembly [No T-R] (See Figures 7 & 8)	A,B,F,G,H ,M	Ref.
	289019-015	Control Box Assembly [With T-R] (See Figures 7 & 8)	C,D,J,K	Ref.
	289019-016	Control Box Assembly [Digital generator meters]	N	Ref.
*	289019-017	Control Box Assembly [Special] (See Figures 7 & 8)	E,L	Ref.
*	289593-001	...Mount, Rubber (V5P059 #51225)		4
*	289012-002	Control Switch Panel Assembly [2 Outputs & No T-R] (See Figure 9)	A,B,E,F,G ,H,L,M,N	1
*	289012-004	Control Switch Panel Assembly [2 Outputs & T-R] (See Figure 9)	C,D,J,K	1
3	291626-002	400 Hz. Power Module Components (See Figure 10)		1
*	290835	...Cover, Power Module		1
4		Cooling System Components (See Figure 11)		Ref.
5		Engine Ground Plate and Cables (See Figure 12)		Ref.
6		Fuel System Components (See Figure 13)		Ref.
7		Engine Exhaust Components (See Figure 14)		Ref.
		Right Side		
8		12 VDC Battery Components (See Figure 15)		Ref.
9	288460-002	Generator Assembly (See Figure 19)		Ref.
*	480603-001	...Mount, Shock, Generator		4
*	290404	...Ring, Spacer, Flex Coupling		1
10		Air Cleaner Components (See Figure 16)		Ref.
*	11	Engine Components (See Figure 17)		Ref.
*	290557	...Mount, Engine, Right, Assembly		1
*	290556	...Mount, Engine, Left, Assembly		1
*	290577	...Support, Engine, Front		1
*	480603-001	...Mount, Shock, Engine		2
*	12	Drain, Blow-by (in area shown)		Ref.
*	056535	... Hose, 3/8", I.D. ... Clamp, Hose (Supplied by Cummins)		46 in. 1
*	13	Wire Harness, Engine		1
*	290850	Wire Harness, Engine Electronics		1
15	290067	Engine, Cummins, QSL9.0, 325 HP		1
*	290726	Connection, Exhaust Outlet, Cobra Head		1
*	290727	Clamp, V-Band		1
*	286897-035	...Engine Oil Filter, Replacement		Ref.
*	287438	...Valve, Oil, Drain		1
*	056535	... Hose, 3/8", I.D.		24"
*	W10869-014	...Clamp, Hose		1
16		Engine Electronic Panel Components (See Figure 18)		Ref.
		Miscellaneous		
17	291175	Leg, Control Box Support, Left		1
18	288693	Leg, Control Box Support, Right		1
19	290596	Support, Control, Box		1
20	290733	Panel, Bulkhead, Center		1
21	288895	Support, Option Terminal Block		1

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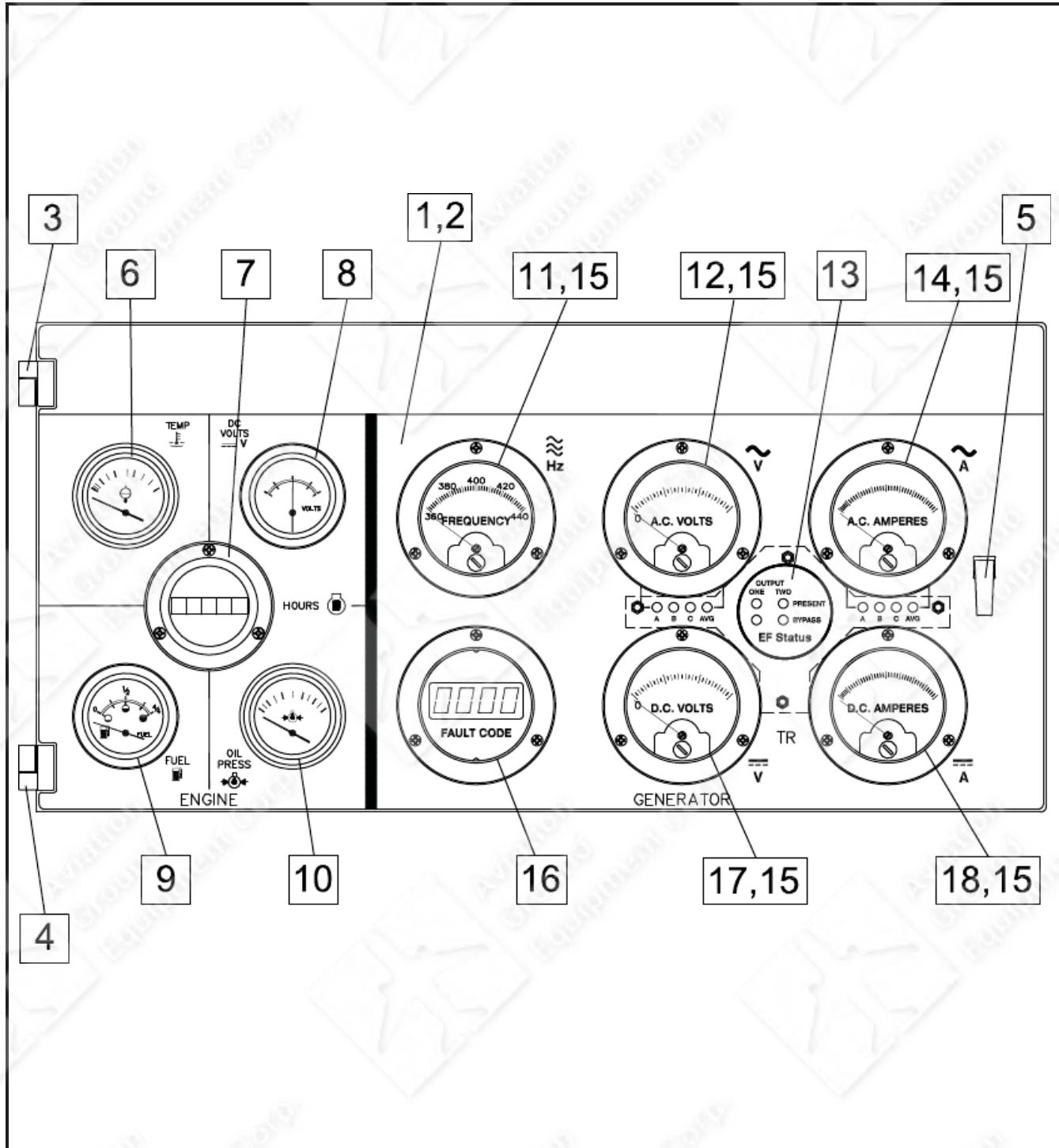


Figure 7: Control Box Door Panel Assembly



FIGURE ITEM NO.	HOBART PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
7 -	289018-015	Door, Control Panel, Assembly [No T-R]	A,B,F,G,H,M	1
	289018-016	Door, Control Panel, Assembly [With T-R]	C,D,J,K	1
	289018-017	Door, Control Panel, Assembly [Special]	N	1
	289018-018	Door, Control Panel, Assembly [Special]	E,L	1
1	288995	Panel, Door, Control Box		1
2	289017	Label, Control Box		1
3	288836-001	Hinge, Offset Top (V94222 # 96-141 Type A)		1
4	288836-002	Hinge, Offset, Bottom (V94222 # 96-142 Type B)		1
5	288999-001	Latch, Control Box (V94222 #62-20-25)		1
6	287908	Gauge, Water Temperature (V16476 #06347-01)		1
7	181358	Meter, Running Time (6H359 #85101)	All except E,L	1
8	286699-001	Voltmeter, Battery		1
9	494134-001	Gauge, Fuel Level (V16476 #06339-01)		1
10	78A1117-002	Gauge, Oil Pressure (V16476 # 06395-01)		1
11	283167	Meter, Frequency (V74542 #D-1255119311)	All except E,L,N	1
11	288858-002	Meter, Frequency, Digital	E,L,N	1
12	W8105A-009	Voltmeter, AC (V74542 #D-1497222103)	All except E,L,N	1
12	288858-003	Voltmeter, AC, Digital	E,L,N	1
13	288806	Board, P.C., Front Panel, Led		1
	288820	...Gasket, LED PC Board		1
14	288814-001	Ammeter, AC (V74542 #D-1497322103)	All except E,L,N	1
14	288858-001	Ammeter, AC, Digital	E,L,N	1
*	15	285172	A,B,E,F,G,H,L,M	3
*	285172	Light, Strip	C,D,J,K	5
16	288858-004	Meter, Fault, Digital		1
17	400642-008	Voltmeter, DC [See TR Manual]	C,D,J,K	1
18	400641-015	Ammeter, DC [See TR Manual]	C,D,J,K	1
*	19	290090	E,L	Ref.
*	290093	...Meter, CAN-Bus	E,L	1
*	290095	...Harness, CAN-Bus	E,L	1
*	290179	...Plug, Hole, CAN-Bus	E,L	3

C,D,J,K have T-R Option (DC output)
 E,L,N have digital generator meters
 E,L have a CAN-Bus meter instead of an hour meter

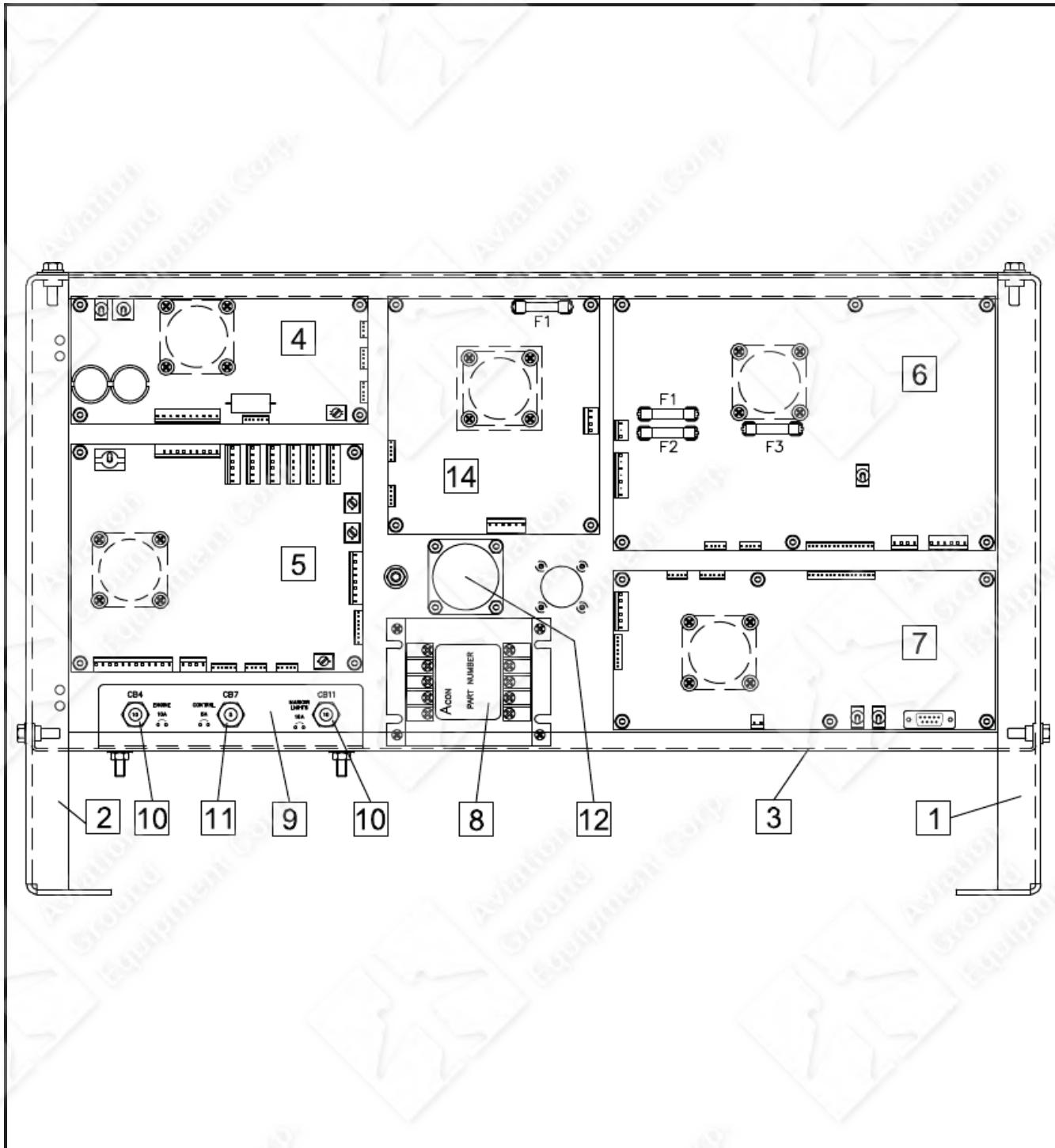


Figure 8: Control Box Interior Components

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FIGURE ITEM NO.	HOBARTPA RT NO.	DESCRIPTION	EFF	UNITS PER ASSY.
8 - 1	288994	Side, Left, Control Box		1
	288993	Side, Right, Control Box		1
3	288992	Wrapper, Control Box		1
4	288745	Board, PC, ESB		1
*	288813	...Label, ESB [Engine Control]		1
	5	Board, PC, EIB		1
*	288791	...Label, EIB [Starter Control]		1
*	6 288940B	Board, PC, Regulator		1
*	288876	...Label, Regulator [Generator Control]		1
	288896	...Label, Regulator [LDC & Voltage Control]		1
	W11166-009	...Fuse, 1 A, 250 V (V2B664)		2
	W11166-002	...Fuse, 5 A, 250 V (V2B664)		1
*	7 289026	Board, PC, Digital Controls		1
*	288875	...Label, Control [EF Bypass Control]		1
	8 288818-001	Power Supply (V05YB3 # M30T1205-12TS)		1
	288605	...Support, Power Supply		1
9	289059	Support, Circuit Breakers		1
	289060	...Label, Circuit Breakers		1
10	283978-002	Circuit Breaker, 10A (V77342 #W23-X1A16-10)		2
11	283978-001	Circuit Breaker, 5A (V77342 #W23-X1A16-5)		1
*	12 289073	Harness, Wire		1
*	13 289072	Harness, Wire, DC [See TR Manual]	C,D,J,K	1
14	288914	Board, PC, T-R [See TR Manual]	C,D,J,K	1
	W11166-009	...Fuse, 1 A, 250 V (V2B664)	C,D,J,K	1

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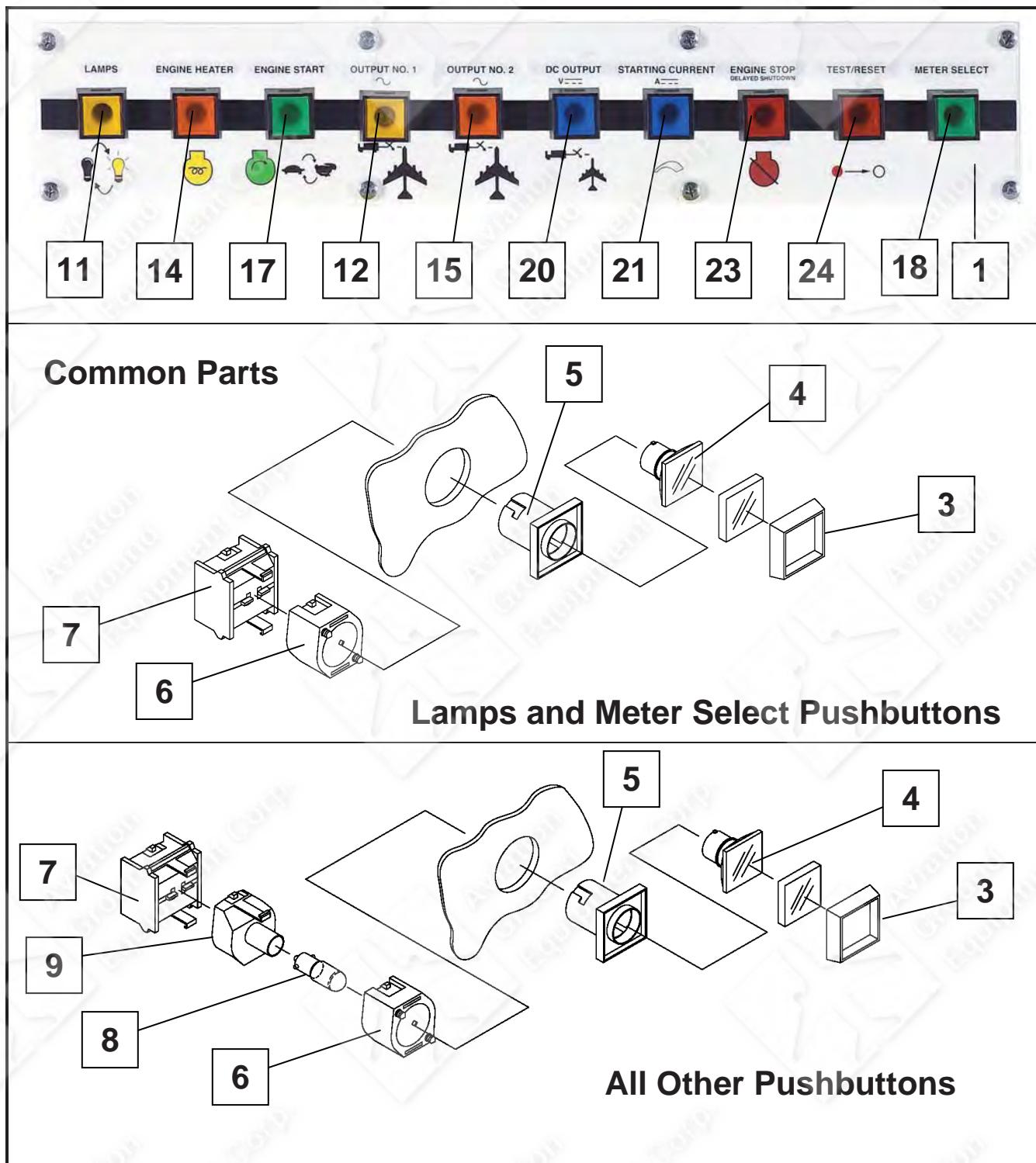


Figure 9: Pushbutton Switches

FIGURE ITEM NO.	PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
9 - 1	289004	Switch Panel		1
	289014	...Switch Panel Label		1
*	040201	...Strip, Gasket, Neoprene		66 in.
* 2	289015	Switch Panel Wire Harness		1
<i>Common Pushbutton Parts</i>				
3	285029-001	Bezel Frame(V61706 #704-701.0)		1
4	285031-001	Lens Holder(V61706 #704-709.7)		1
5	285032-001	Sleeve Actuator (V61706 #704-731.0)		1
6	285033	Mounting Flange(V61706 #704-950.5)		1
7	284475-001	Switch, Contact Block (V61706 #704-900.3)		1
8	400613-004	Type 1815 Bulb (V02929)		1
9	285034-001	Lamp Holder (V61706 #704-950.0)		1
*	10 290080	Contact Block Cover		1
11	289601-001	<i>Lamps Pushbutton</i>		1
12	289601-004	<i>Output # 1 Pushbutton</i>		1
13	285030-002	Yellow Lens (V61706 #704-702.4)		1
14	289601-005	<i>Pre-heater Pushbutton</i>		1
15	289601-005	<i>Output # 2 Pushbutton</i>		1
16	285030-004	Orange Lens (V61706 #704-702.3)		1
17	289601-006	<i>Engine Start Pushbutton</i>		1
18	289601-006	<i>Meter Select Pushbutton</i>		1
19	285030-003	Green Lens (V61706 #704-702.5)		1
20	289601-007	<i>DC Output Pushbutton</i>	C,D,J,K	1
21	289601-007	<i>Current Pushbutton</i>	C,D,J,K	1
22	285030-005	Blue Lens (V61706 #704-702.6)	C,D,J,K	1
23	289601-003	<i>Engine Stop Pushbutton</i>		1
24	289601-003	<i>Test/Reset Pushbutton</i>		1
25	285030-001	Red Lens (V61706 #704-702.2)		1
<i>Other Parts</i>				
26	287038-001	Plug, Hole (when switch is not installed)		1
27	288773	Panel, Switch Box		1
*	28 288772	Wrapper, Switch Box		1
*	29 288771	Top, Switch Box		2

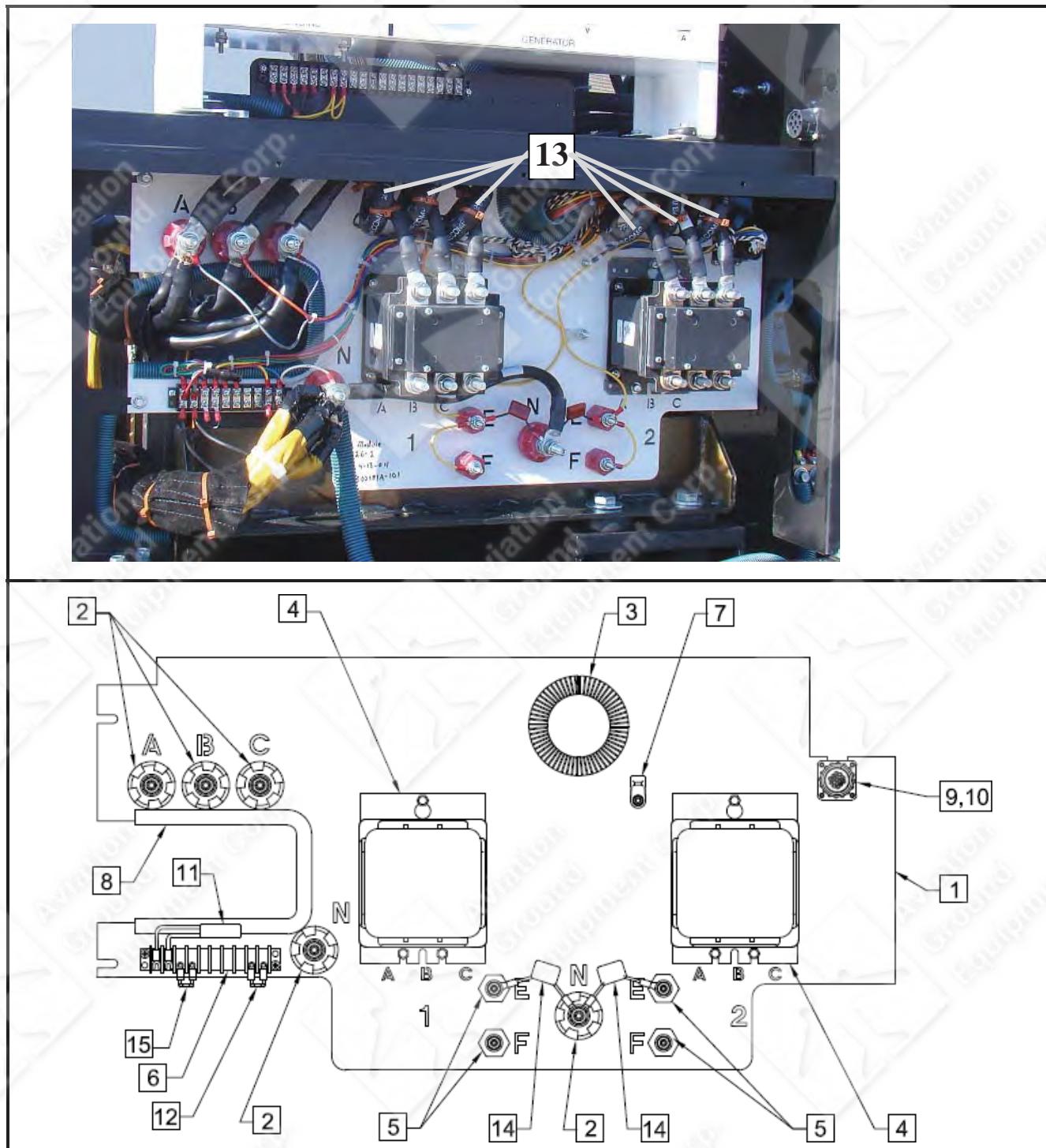


Figure 10: 400 Hz. Power Module Assembly

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FIGURE ITEM NO.	PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
10 -	291626-002	Power Panel Module Assembly		Ref.
1	291625	Panel, Power Module		1
2	283154-001	Standoff, 3/8-16		5
3	76A1131	Tubing, Z-flex, 1/2		0.79 ft.
4	282130-001	Contactor, Line, 3-Pole		2
5	286266	Standoff, Short, 1/4-20, (E, F)		4
6	401911-010	Block, Terminal		1
7	288078-001	Tie, Screw Mount		1
8	050988	Trim, .12, Black, Alum, Vinyl (PVC)		18 in.
9	288829	Harness, Wire, Power Module		1
		...(No. 101) "A" Stator Terminal to "K1", # 1 Output		1
		...(No. 102) "B" Stator Terminal to "K1", # 1 Output		1
		...(No. 103) "C" Stator Terminal to "K1", # 1 Output		1
		...(No. 110) "N" Stator Terminal to "N", Neutral		1
10	288832	Harness, Wire, 2nd Output		1
		...(No. 104) "A" Stator Terminal to "K201", # 2 Output		1
		...(No. 105) "B" Stator Terminal to "K201", # 2 Output		1
		...(No. 106) "C" Stator Terminal to "K201", # 2 Output		1
11	282089-011	Diode, Flyback, Assembly		1
12	288892-013	Resistor, ID, 180 KVA		1
13	285102-001	Current, Transformer (<i>V05HB5 # 20130</i>)		6
14	290227	Capacitor, Noise Suppression		2
15	288892-001	Resistor Assembly, 1K		1

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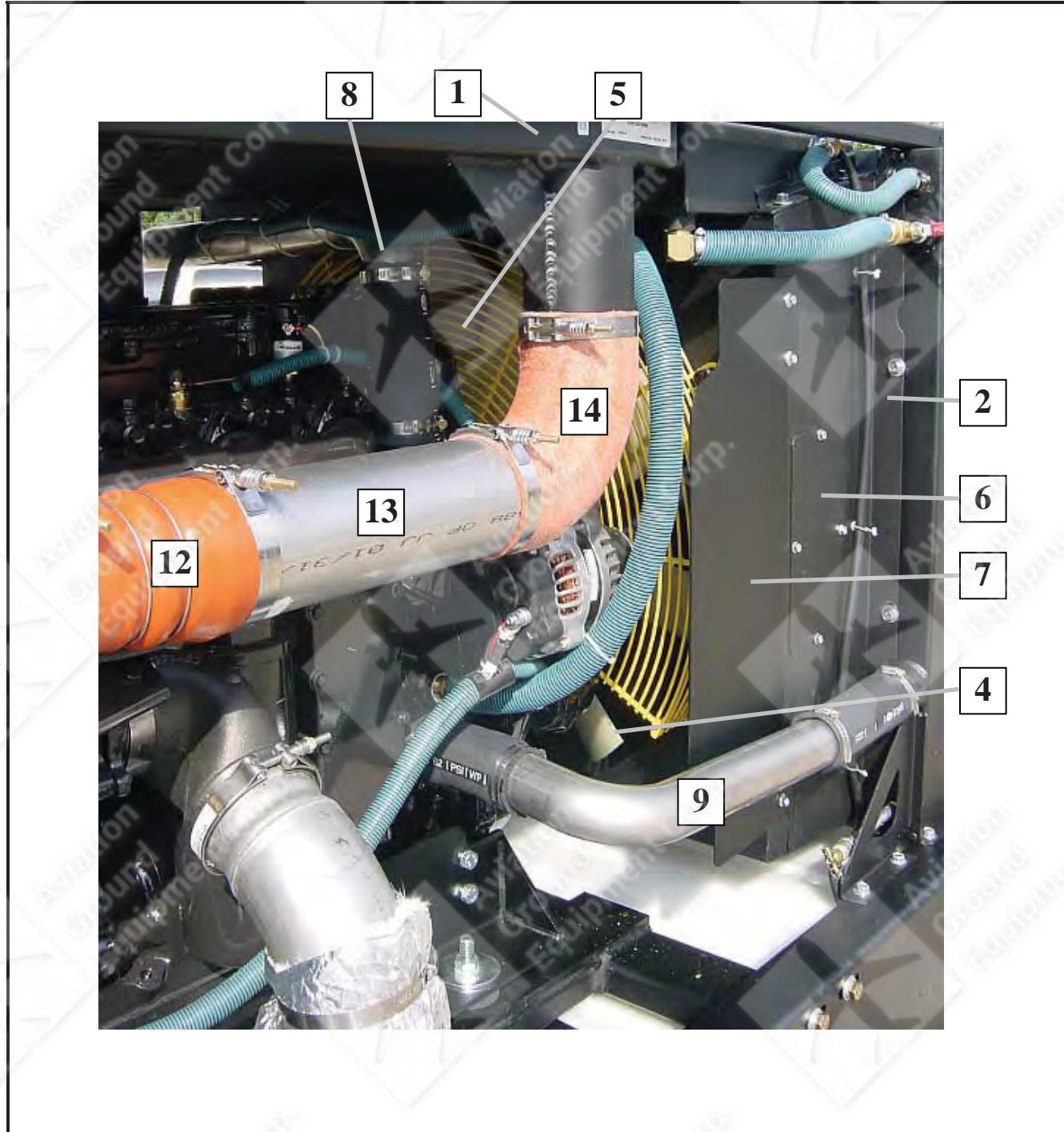


Figure 11: Cooling System Components



FIGURE ITEM NO.	PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
11 - 1	290223	Radiator Assembly		1
	2	290365 Charge-Air-Cooler Assembly		1
*	3	290145 Sensor, Coolant Level		1
*	4	290731 Fan, Cooling, 28"		1
	5	290745 Guard, Spiral, Fan		1
6	-	Shroud, Fan		Ref.
7	290776	Guard, Fan Belt		2
8	290764	Tube, Radiator, Upper		1
	W10869-005	...Clamp, Hose (2 ⁵ / ₁₆ " – 3 ¹ / ₄ ")		4
	289200-002	...Hose, Radiator, Straight, 2.25 O.D.		16"
9	290761	Tube, Radiator, Lower		1
	W10869-005	...Clamp, Hose (2 ⁵ / ₁₆ " – 3 ¹ / ₄ ")		4
	289200-002	...Hose, Radiator, Straight, 2.25 O.D.		16"
*	10	Line, De-Aeration		Ref.
*	288123-001	...Connector, Male		2
*	056534	...Hose, 1/4", I.D.		40"
*	W10051-007	...Clamp, Hose (7/32" – 5/8")		2
*	11	283873 Valve, Drain, Radiator		2
*	056535	...Hose, 3/8" I.D., Low Pressure		60"
*	W10051-007	...Clamp, Hose (7/32" – 5/8")		2
12	290625	Hose, Adaptor, 3.5" to 4.0"		1
*	290597-002	...Clamp, T-Bolt, Floating Bridge, 3.75"		1
	290597-003	...Clamp, T-Bolt, Floating Bridge, 4.25"		1
13	290598	Pipe, Turbo to CAC		1
14	290626	Hose, CAC, 90° Elbow, 4" I.D., Hot		1
	290597-003	...Clamp, T-Bolt, Floating Bridge, 4.25"		2
*	15	290627 Hose, CAC, 90° Elbow, 4" I.D., Cold		1
*	290597-006	...Clamp, T-Bolt, Floating Bridge, 4.25"		2
*	16	290599 Pipe, CAC to Intake		1
*	17	290628 Hose, CAC, 90° Elbow, 4" I.D., Cold, 19"		1
*	290597-006	...Clamp, T-Bolt, Floating Bridge, 4.25"		2

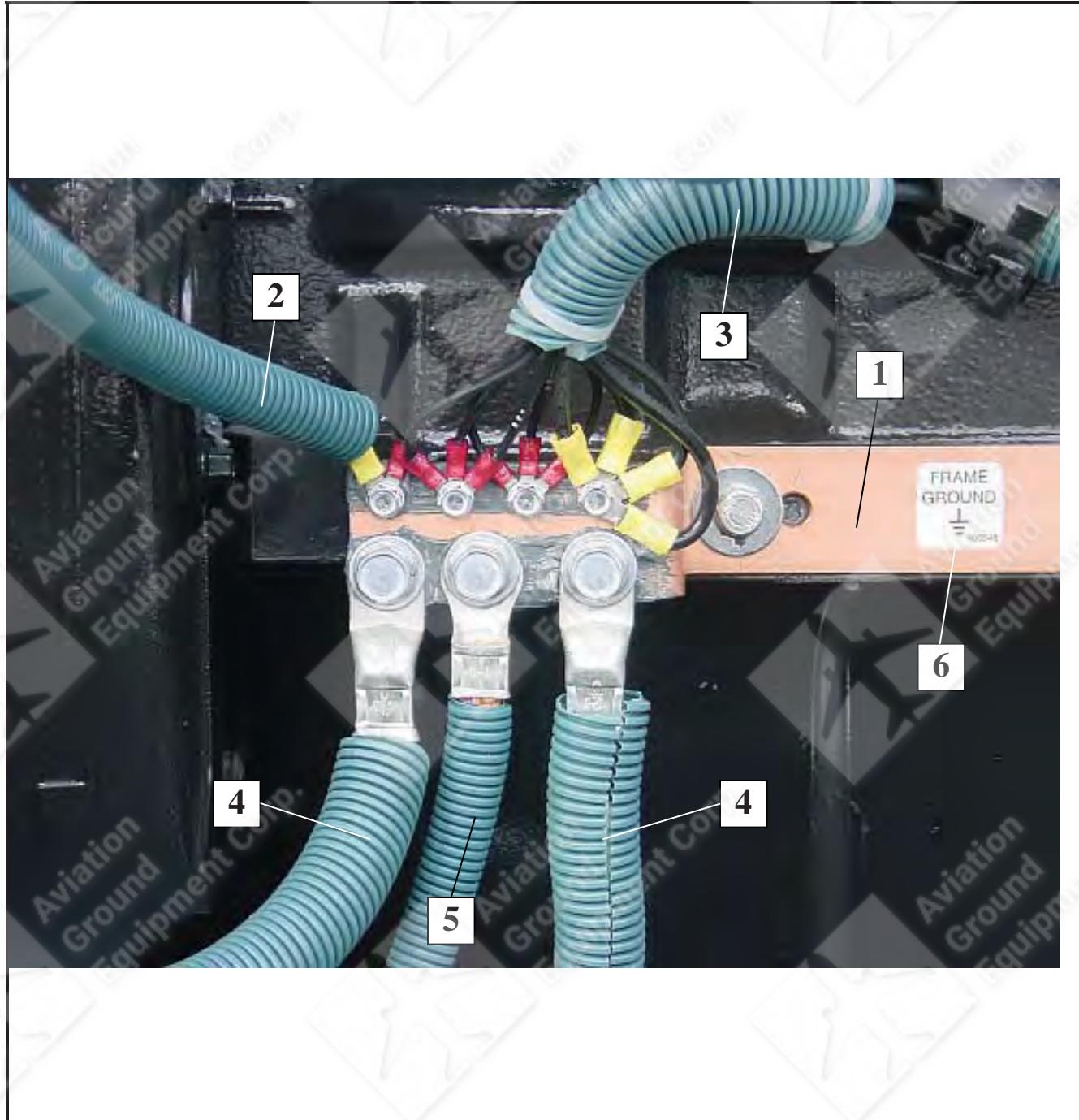


Figure 12: Engine Ground Plate and Cables

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FIGURE ITEM NO.	PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
12 - 1	288723	Plate, Ground		1
2	290850	Harness, Wire, Engine, Electronic		1
3	291630	Harness, Engine		1
4	W9360-289 76A1132	Cable, #111, Power Mod. To Ground ...Tubing, Z-Flex, 3/4"		2 90"
5	W9407-446 76A1131	Cable, Engine to Ground ...Tubing, Z-Flex, 1/2"		1 16"
6	405548	Label, Frame Ground		1

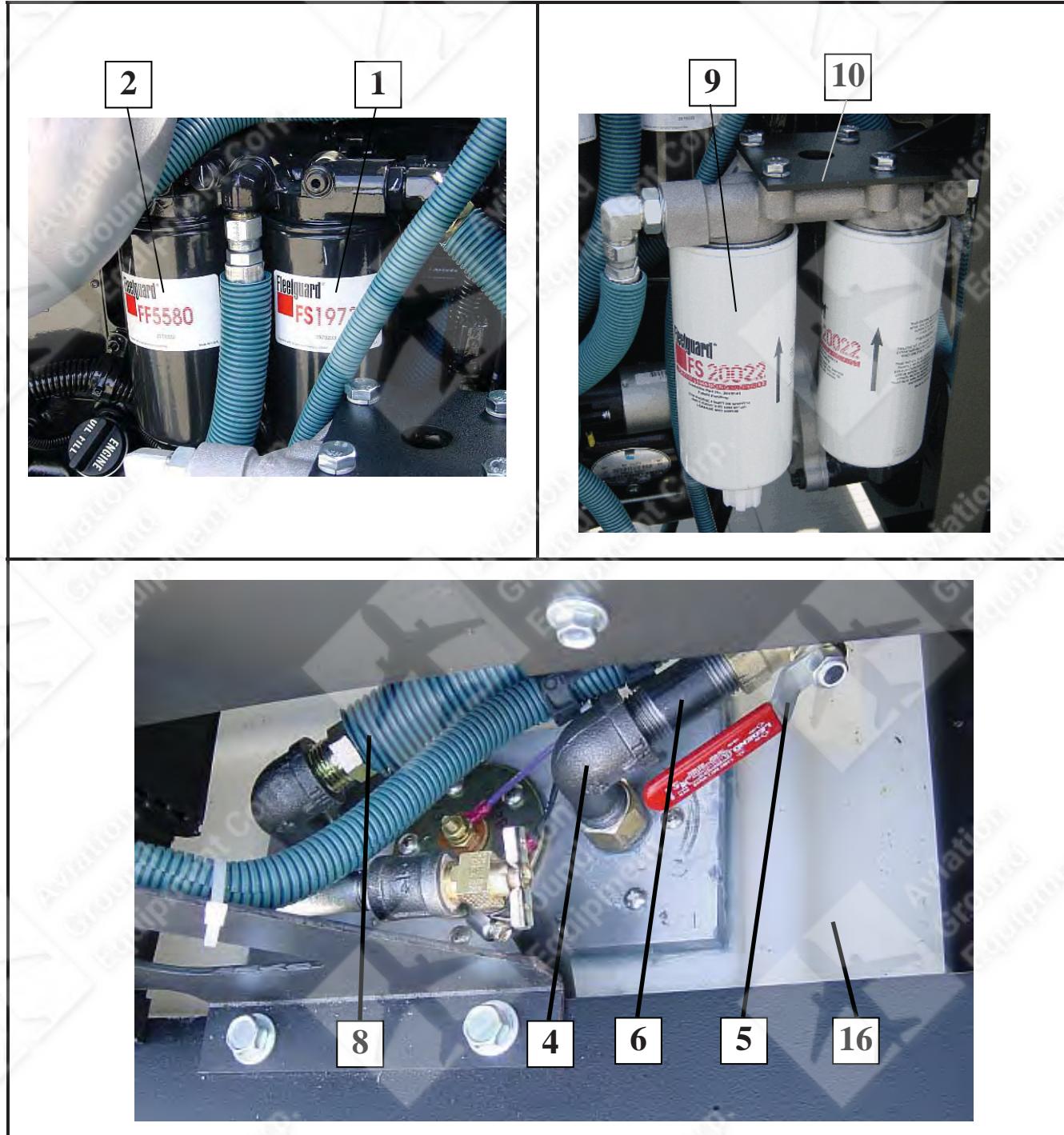


Figure 13: Fuel System Components

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FIGURE ITEM NO.	PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
13 - 1	286897-033	Filter, Fuel Water Separator [Supplied by Cummins]		Ref.
	2	286897-034	Filter, Fuel [Supplied by Cummins]	Ref.
*	3	290692	Line, Fuel, Tank to Lubricity Filter	1
	4	12CW2077-003	Elbow, 1/2" NPT, ST., 90°	2
	5	400819-003	Valve, Ball, 1/2" NPT	1
	6	W10760-003	Nipple, Pipe, 1/2"	1
		76A1132	Tubing, Z-Flex, 3/4" I.D.	38"
*	7	290693	Line, Fuel, Lubricity Filters to Fuel Filters	1
		76A1132	Tubing, Z-Flex, 3/4" I.D.	20"
	8	290694	Line, Fuel, Return	1
		76A1132	Tubing, Z-Flex, 3/4" I.D.	48"
	9	286897-031	Filter, Lubricity Fuel	All except F,M
	10	290772	Lubricity Filter, Bracket	All except F,M
*	11	290758	Filter, Fuel	F,M
*	12	289188	Bracket, Mount, Fuel Filter	F,M
*	13	290757	Heater, Fuel	F,M
*		290782	Adaptor, Elbow, 90 Degree	F,M
*	14	282562	Cap, Fill, Fuel, Diesel Green (V49234 #1275G/12T)	1
*	15	290780	Tank, Fuel, 125 Gallon (See Figure 3)	A thru F
	16	290750	Kit, Composite, Fuel Tank (See Figure 3)	G thru N
				Ref.

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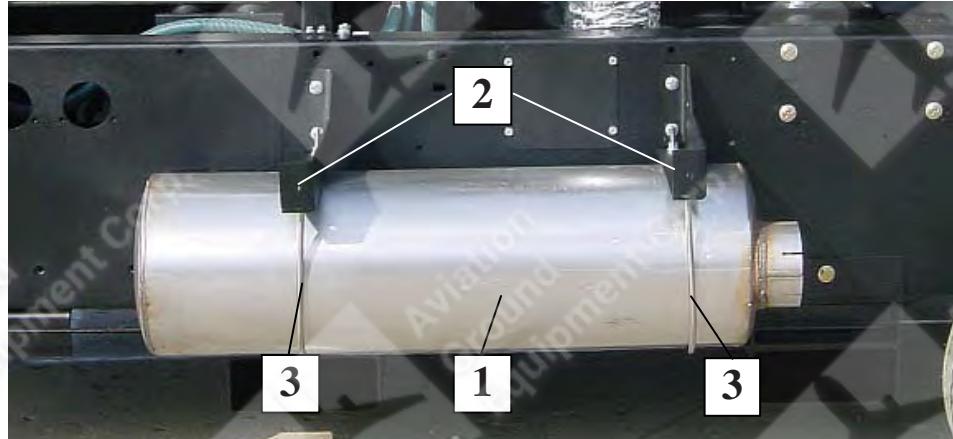
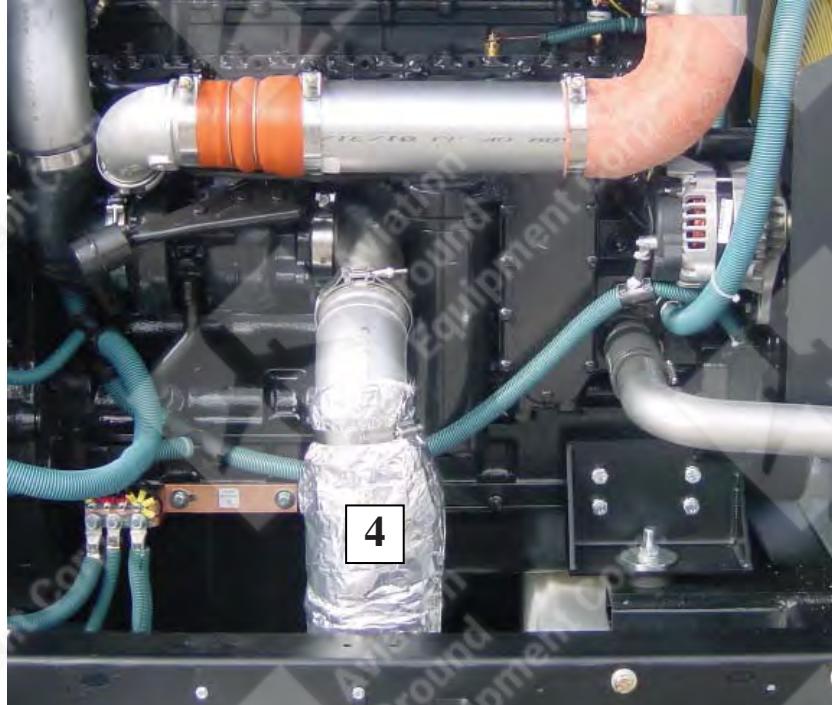


Figure 14: Engine Exhaust Components

FIGURE ITEM NO.	PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
14 - 1	290657	Muffler, Exhaust		1
2	290708	Bracket, Muffler Support		2
3	290724	Clamp, Muffler Mounting		2
4	290777	Pipe, Turbo, Assembly		1
	290754	Clamp, V-Band, Exhaust		1
	404154-018	Clamp, Pipe, 5", I.D.		1
*	5	Shield, Heat, Muffler	A,C,E,F,G,J,L,M,N	1
*	6	Pipe, Exhaust, Muffler Outlet, Assembly	A,C,E,F,G,J,L,M,N	1
	404154-018	Clamp, Pipe, 5", I.D.	A,C,E,F,G,J,L,M,N	1



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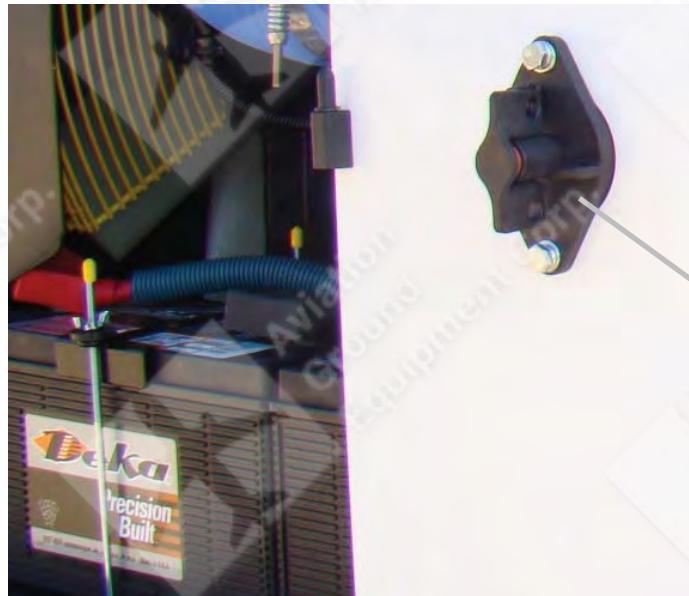
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11

Figure 15: 12 VDC Battery System

FIGURE ITEM NO.	PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
15 - 1	281881-004	Battery, 12 V (V25710 #1231MF)		2
2	289151	Cable, Battery, Negative (V3Y208)		1
3	289153	Cable, Battery, Negative (V3Y208)		1
4	289149	Cable, Battery, Positive (V3Y208)		2
*	5	Tray, Battery		1
*	6	Bracket, Battery Tray, Right		1
*	7	Support, Battery Tray		1
8	289239	Pad, Battery Tray		1
9	287796	Hold Down, Battery (V3Y208)		2
10	494295	Bolt, Hold Down, Battery (V3Y208)		2
11	291611	Disconnect Switch, Battery, 2000A, Lock Out		1
*	12	Cable, Disconnect Switch, Starter		1

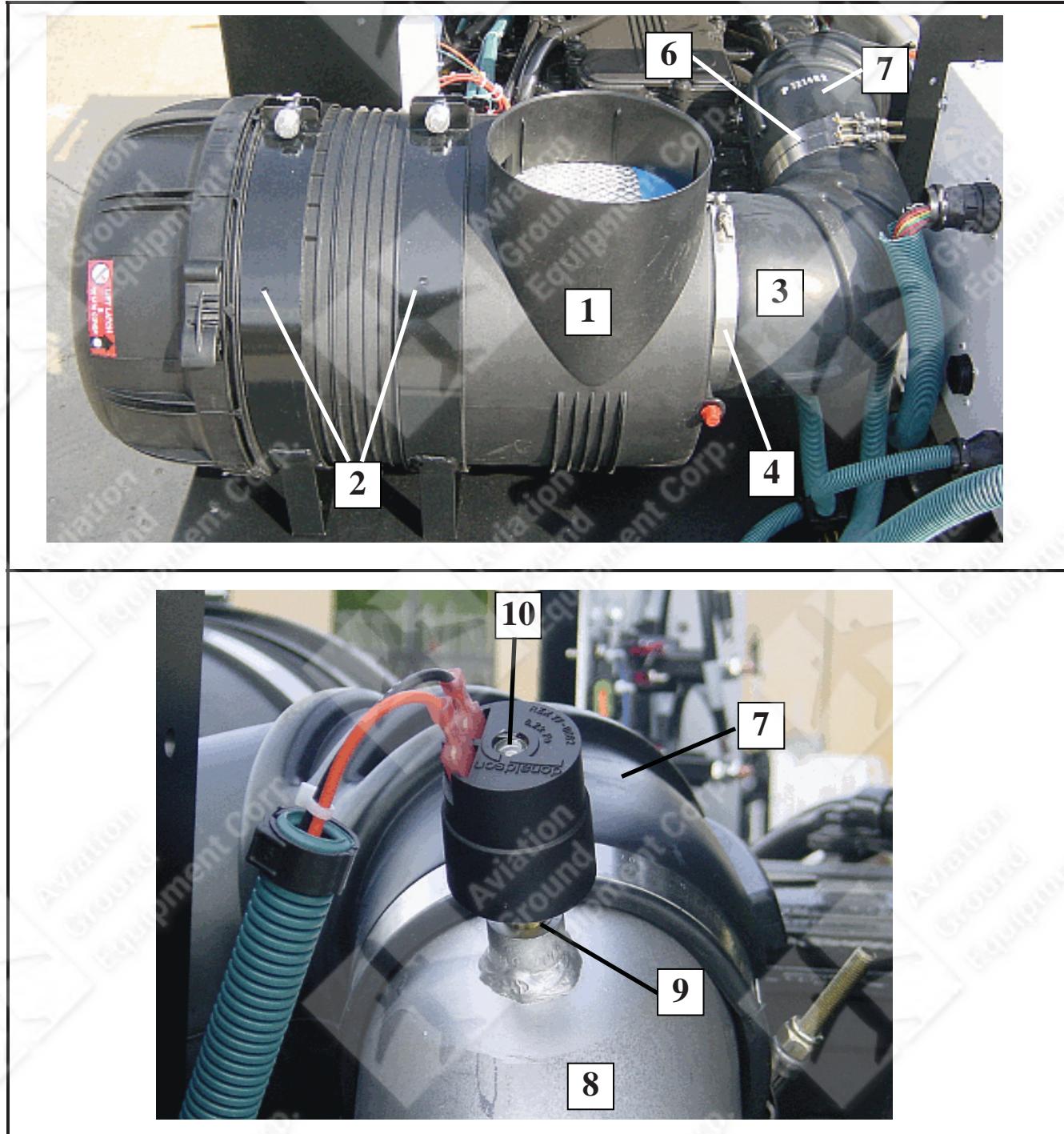


Figure 16: Air Cleaner & Intake Air Components

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FIGURE ITEM NO.	PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
16 - 1	290717	Filter, Air		1
*	290828	Element, Primary, Replacement		Ref. (1)
*	290829	Element, Secondary, Replacement		Ref. (1)
2	290649	Bracket, Mounting		2
3	290655-001	Elbow, Reducing 90° (7" to 5")		1
*	4 290652-001	Clamp, Hose (7.25"-7.76")		1
*	5 290755	Pipe, Connector, Air Inlet, 5" O.D.		1
6	280732-007	Clamp, T-Bolt (5 5/16" – 5 5/8")		2
7	284925	Reducer, Rubber, 90° Elbow		1
8	290762	Pipe, Elbow, Air Inlet		1
9	282919	Adaptor, Indicator		1
10	282918	Indicator, Restriction, Electric		1
*	11 280732-006	Clamp, T-Bolt (4 5/16" – 4 5/8")		4
*	12 290778	Elbow, Rubber, Cobra Head (Supplied by Cummins)		Ref.
*	13 290633	Intake, Air, Extension		1
*	14 290647-001	Adaptor, Hump Hose		1
*	15 290652-001	Clamp, Hose		2
*	16 290648-001	Hood, Weather		1

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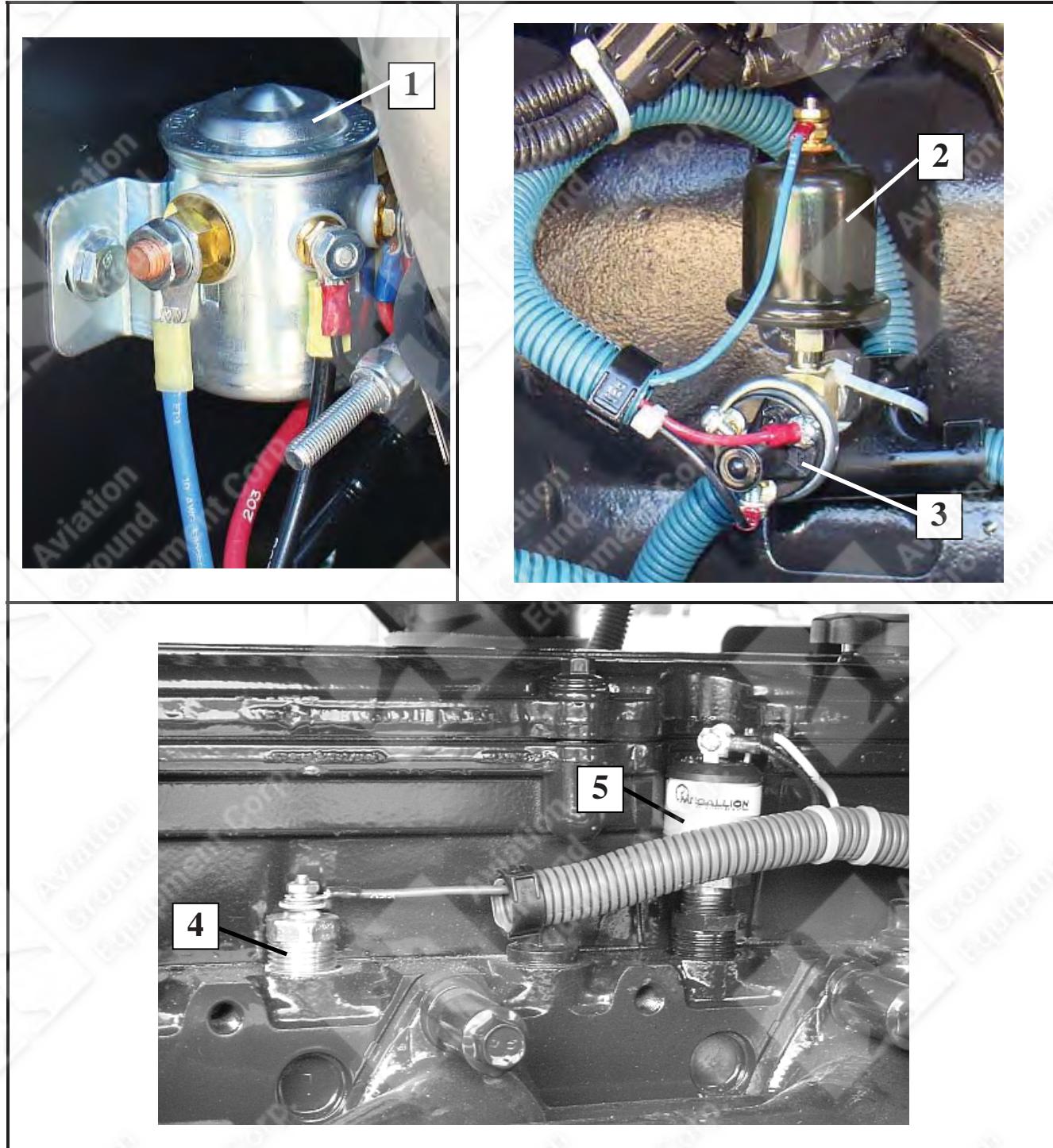


Figure 17: Engine Components

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FIGURE ITEM NO.	PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
17 - 1	286850	Starter Solenoid (V13445 # 24059)		1
	288973-001	...Diode, Starter Solenoid, Assembly		1
2	403809-001	Switch, Oil Pressure (V75419 #1042-08210-10)		1
3	78B1118-002	Sender, Oil Pressure (V16476 #16476)		1
	287419	...Adapter, M10-1.0 x 1/8 NPTF		1
	W10910-000	...Fitting, Tee		1
	W10750-001	...Nipple, Pipe, 1/8"		1
4	403782-002	Switch, Shutdown, 210° F (V75418 #1002-04880-36)		1
	W7814-004	...Adapter, 3/8" x 1/2" NPT		1
5	287909	Sender, Water Temperature (V16476 #02019)		1
*	6	System, Oil Replenishment	F,M	1
*	7	Bracket, Support, Oil Replenishment	F,M	1
*	290676	...Bumper, Rubber	F,M	2
*	8	Bracket, Sight Glass, Oil Management	F,M	1
*	9	Bracket, Switch and Lights, Oil Management	F,M	1
*	10	Board, P.C., Oil Management	F,M	1
*	11	Harness, Wire, Oil Replenishment System	F,M	1

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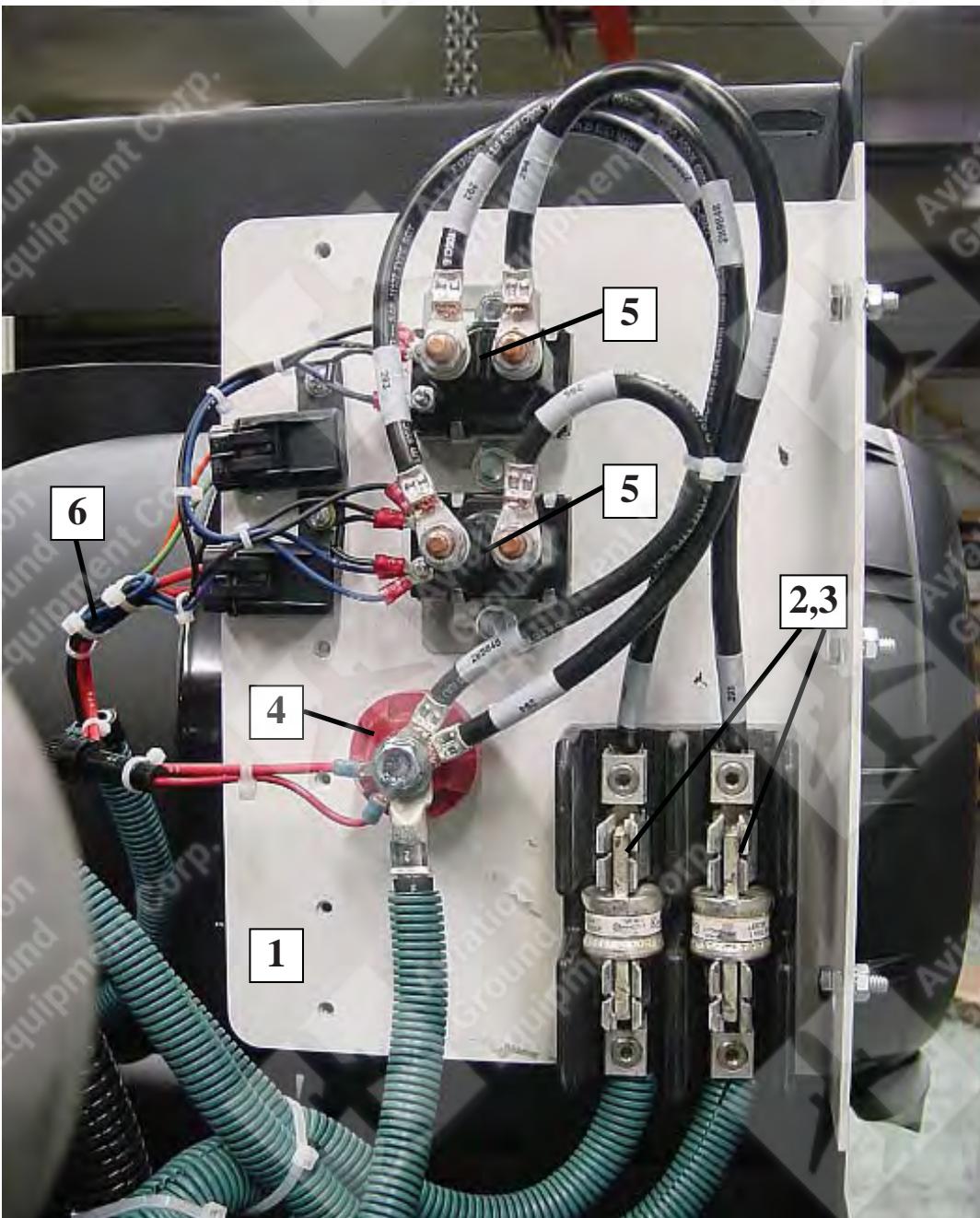


Figure 18: Engine Electronic Panel Components

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FIGURE ITEM NO.	PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
18 - 1	288333	Panel, "E" Engine, Parts		1
2	287145-002	Holder, Fuse (V17400 # T30100-1CR)		1
3	287144-002	Fuse, Fast Acting (V17400 # JJN-125)		2
4	283154-001	Insulator, Standoff		1
5	288331	Relay, Grid Heater, Power (V1FQ83 50F3662)		2
6	290850	Harness, Wire, Engine, Electronic		1
7	489658-007	Diode, Assembly		2

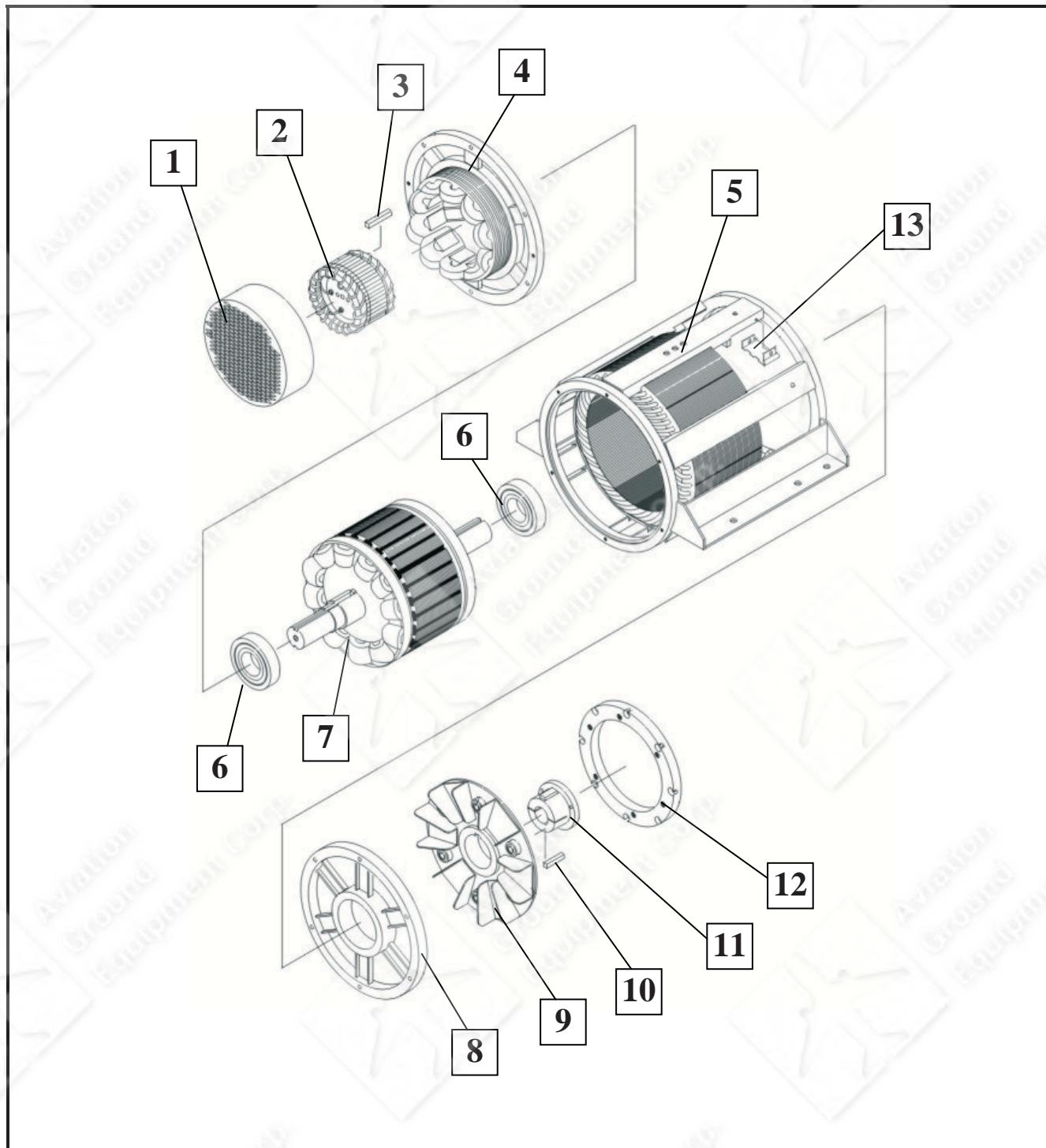


Figure 19: Generator Assembly

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FIGURE ITEM NO.	PART NO.	DESCRIPTION	EFF	UNITS PER ASSY.
19 - 1	288486	Exciter Cover		1
2	288494	Exciter Armature		1
3	180696-003	Exciter Key		1
4	288440	Exciter Housing and Coils Assembly		1
5	289229	Generator Housing and Coils Assembly		1
6	W10072-068	Bearing		2
7	288447-002	Generator Rotor		1
8	288461	Front Bearing Support		1
9	288481	Flexible Coupling Kit		1
	288480	...Fan & Coupling Weldment		1
	480290	...Coupling Bushing		8
10	85B1039	Coupling Key		1
11	85C1004-001	Split Taper Bushing		1
12	288457	Flywheel Adapter Ring (not used with this engine)		Ref.
13	288458	Generator Air Deflector		6
*	14	289226	Generator Cover	1
*	15	288491	Tab, Fastener, Exciter Key	1
*	16	291180	Generator Lead, Cover (cloth wrap)	2

Section 3 Numerical Index

1) Explanation of Numerical Index

The purpose of this index is to assist the user in finding the illustration and description of a part when the part number is known. Part numbers are arranged in alphanumerical sequence.

FIGURE ITEM NO.	HOBART PART NO.	FIGURE ITEM NO.	HOBART PART NO.
9-	040201	9-6	285033
10-8	050988	9-9	285034-001
11-	056534	10-13	285102-001
6-	056535	1-7	285125
11-	056535	7-	285172
1-24	100GH121	7-15	285172
13-4	12CW2077-003	10-5	286266
19-3	180696-003	7-8	286699-001
7-7	181358	17-1	286850
16-11	280732-006	13-9	286897-031
16-6	280732-007	13-1	286897-033
1-	280763	13-2	286897-034
15-1	281881-004	6-	286897-035
10-11	282089-011	1-1	286956
10-4	282130-001	1-	286956-001
3-7	282562	9-26	287038-001
13-14	282562	18-3	287144-002
2-13	282658	18-2	287145-002
1-2	282667	1-15	287376
1-	282727	1-17	287377
16-10	282918	17-	287419
16-9	282919	6-	287438
10-2	283154-001	2-10	287459
18-4	283154-001	2-18	287460
7-11	283167	2-19	287460
5-6	283597	2-20	287461
4-7	283647	2-21	287462
2-8	283714-003	2-16	287463
5-5	283824	2-22	287464
11-11	283873	2-9	287465
8-11	283978-001	2-5	287466
8-10	283978-002	2-23	287467
1-23	284359	1-14	287491
9-7	284475-001	3-16	287506
16-7	284925	5-4	287526-002
9-3	285029-001	5-3	287542-001
9-25	285030-001	5-3	287542-002
9-13	285030-002	2-11	287696
9-19	285030-003	4-1	287701
9-16	285030-004	5-1	287701
9-22	285030-005	4-10	287703
9-4	285031-001	5-	287738-001
9-5	285032-001	3-	287738-003



FIGURE ITEM NO.	HOBART PART NO.	FIGURE ITEM NO.	HOBART PART NO.
4-	287738-004	8-	288813
4-	287738-012	7-14	288814-001
4-	287738-013	8-8	288818-001
4-	287738-014	7-	288820
3-	287738-015	10-9	288829
3-	287738-025	10-10	288832
4-	287738-027	7-3	288836-001
5-	287738-028	7-4	288836-002
3-	287738-029	7-14	288858-001
3-	287738-030	7-11	288858-002
3-	287738-031	7-12	288858-003
3-	287738-032	7-16	288858-004
4-	287785	2-14	288862
4-	287793	2-15	288866
4-	287794	2-24	288872
15-9	287796	8-	288875
4-9	287800	8-	288876
1-20	287892	4-11	288878
7-6	287908	3-1	288879
17-5	287909	4-2	288880
10-7	288078-001	5-2	288880
11-	288123-001	5-7	288881
2-6	288300	10-15	288892-001
18-5	288331	10-12	288892-013
18-1	288333	6-21	288895
19-4	288440	8-	288896
19-7	288447-002	3-6	288910
19-12	288457	15-7	288910
19-13	288458	8-14	288914
6-9	288460-002	2-4	288917-002
19-8	288461	2-25	288918-002
19-	288480	8-5	288937
19-9	288481	8-6	288940B
19-1	288486	17-	288973-001
19-15	288491	8-3	288992
19-2	288494	8-2	288993
8-	288605	8-1	288994
3-18	288693	7-1	288995
6-18	288693	7-5	288999-001
1-	288694	9-1	289004
1-	288695	6-2	289012-002
1-19	288696	6-	289012-004
1-21	288697	9-	289014
1-	288698	9-2	289015
12-1	288723	7-2	289017
8-4	288745	7-	289018-015
9-29	288771	7-	289018-016
9-28	288772	7-	289018-017
9-27	288773	7-	289018-018
8-	288791	6-1	289019-014
7-13	288806	6-	289019-015

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FIGURE ITEM NO.	HOBART PART NO.	FIGURE ITEM NO.	HOBART PART NO.
6-	289019-016	10-14	290227
6-	289019-017	3-	290267
8-7	289026	11-2	290365
8-9	289059	6-	290404
8-	289060	1-	290466
8-13	289072	1-	290467
8-12	289073	1-	290468
2-26	289127	1-	290474
15-4	289149	1-	290475
15-2	289151	6-	290556
15-3	289153	6-	290557
13-12	289188	6-	290577
11-	289200-002	4-4	290591
3-5	289223-001	3-15	290593
15-6	289223-001	3-2	290596
3-4	289224	6-19	290596
15-5	289224	11-	290597-002
19-14	289226	11-	290597-003
19-5	289229	11-	290597-006
3-	289239	11-13	290598
15-8	289239	11-16	290599
3-14	289479	11-12	290625
3-10	289577	11-14	290626
6-	289593-001	11-15	290627
9-11	289601-001	11-17	290628
9-23	289601-003	16-13	290633
9-24	289601-003	4-12	290634
9-12	289601-004	3-	290640
9-14	289601-005	16-14	290647-001
9-15	289601-005	16-16	290648-001
9-17	289601-006	16-2	290649
9-18	289601-006	16-4	290652-001
9-20	289601-007	16-15	290652-001
9-21	289601-007	16-3	290655-001
1-11	289606	14-1	290657
1-18	289607	14-5	290665
1-10	289663	17-	290676
2-12	289678	3-	290680
3-13	289690	13-3	290692
3-12	289693	13-7	290693
2-1	289842-001	13-8	290694
6-15	290067	2-28	290695
9-10	290080	17-9	290696
3-11	290081	17-7	290697
7-19	290090	17-8	290704
7-	290093	14-2	290708
7-	290095	17-10	290715
11-3	290145	16-1	290717
7-	290179	14-3	290724
2-27	290216	6-	290726
11-1	290223	6-	290727

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FIGURE ITEM NO.	HOBART PART NO.	FIGURE ITEM NO.	HOBART PART NO.
4-	290729	18-6	290850
4-	290730-001	2-34	290858
4-	290730-002	3-	290861
4-	290730-003	17-6	290864
4-	290730-004	17-11	290865
4-	290730-005	2-17	290885
5-	290730-006	3-17	291175
11-4	290731	6-17	291175
3-3	290733	19-16	291180
6-20	290733	14-6	291257
11-5	290745	2-3	291609
3-	290746	15-11	291611
3-	290747	4-3	291617
3-	290748	10-1	291625
3-9	290750	6-3	291626-002
13-16	290750	10-	291626-002
1-	290751	6-13	291630
1-	290753	12-3	291630
14-	290754	1-16	291678
16-5	290755	5-8	291679
13-13	290757	5-	291681
13-11	290758	5-	291682
11-9	290761	5-	291683
16-8	290762	5-	291684
11-8	290764	9-8	400613-004
4-6	290768	7-18	400641-015
4-5	290769	7-17	400642-008
4-14	290770	13-5	400819-003
4-15	290771	10-6	401911-010
13-10	290772	2-7	402987
4-13	290773	4-	403091-008
11-7	290776	4-	403127
14-4	290777	17-4	403782-002
16-12	290778	17-2	403809-001
1-	290779	14-	404154-018
3-8	290780	12-6	405548
13-15	290780	2-35	408665-001
4-	290781	2-2	408665-002
13-	290782	1-	408781-001
4-8	290785	19-	480290
16-	290828	3-	480603-001
16-	290829	6-	480603-001
15-12	290832	3-	486719-014
3-19	290835	18-7	489658-007
6-	290835	7-9	494134-001
2-29	290836	15-10	494295
2-30	290837	10-3	76A1131
2-32	290838	12-	76A1131
2-33	290842	12-	76A1132
6-14	290850	13-	76A1132
12-2	290850	2-31	76B1148

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FIGURE ITEM NO.	HOBART PART NO.
1-8	77A1157
7-10	78A1117-002
17-3	78B1118-002
1-22	7J422-000
2-36	82A1070
19-10	85B1039
19-11	85C1004-001
11-	W10051-007
19-6	W10072-068
17-	W10750-001
13-6	W10760-003
11-	W10869-005
6-	W10869-014
17-	W10910-000
8-	W11166-002
8-	W11166-009
17-	W7814-004
7-12	W8105A-009
12-4	W9360-289
12-5	W9407-446

Preventative Maintenance

This is a brief list of replacement filters for 180CU20 (500181A) ground power unit. This is provided, as a quick reference chart for the maintenance technician or diesel mechanic in charge of routine preventative maintenance to the ground power unit.

Generator Model Number

Identify your generator model number by looking on the data plate, which is located on the control box door near the emergency stop.



Filter Part Numbers

The table below lists the filter part numbers for your generator set. You can also order sets of filters as kits, which are listed on the next page.

Filters	Hobart Part Number	Models Where Used
Oil Filter	286897-035	All
Fuel Filter Element	286897-034	All
Fuel Water Separator (Pre-Filter) Element	286897-033	All
Primary Air Filter Replacement Element	290828	All
Secondary Air Filter Replacement Element	290829	All
Lubricity/Fuel Water Separator Element	286897-031	All 50081A specifications except the 500181A-006 & -106 (special configuration)
Fuel Filter (w/ Fuel Heater Option) Element	286897-032	500181A-006 & 106 (special configuration)



Filter Kits

Preventative Maintenance kits are for generator sets with 500 hours of operation from last performed maintenance.

Kit	Hobart Part Number	Models Where Used
Preventative Maintenance Kit <i>This kit includes:</i> <ul style="list-style-type: none">• Engine Oil Filter (286897-035)• (2) Lubricity/Fuel Water Separator Elements (286897-031)• Fuel Water Separator (Pre-Filter) Element (286897-033)• Fuel Filter Element (286897-034)	290300-008	All 50081A specifications except the 500181A-006 & -106 (special configuration)
Preventative Maintenance Kit <i>This kit includes:</i> <ul style="list-style-type: none">• Engine Oil Filter (286897-035)• Fuel Filter (w/ Fuel Heater Option) Element (286897-032)• Fuel Water Separator (Pre-Filter) Element (286897-033)• Fuel Filter Element (286897-034)	290300-010	Only for the 500181A-006 & -106 (special configuration)