



**Aviation
Ground
Equipment Corp.**

HOBART
GROUND SYSTEMS

Illustrated Parts List for 90CU420

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



Series 500090A

324 South Service Road, Unit 104 Melville NY 11747
TEL (631) 815-5520 • FAX (631) 815-5526
E-mail: sales@aviationgroundequip.com
Web: www.aviationgroundequip.com

Section 1 Illustrated Parts List

1) Explanation of Parts List Arrangement

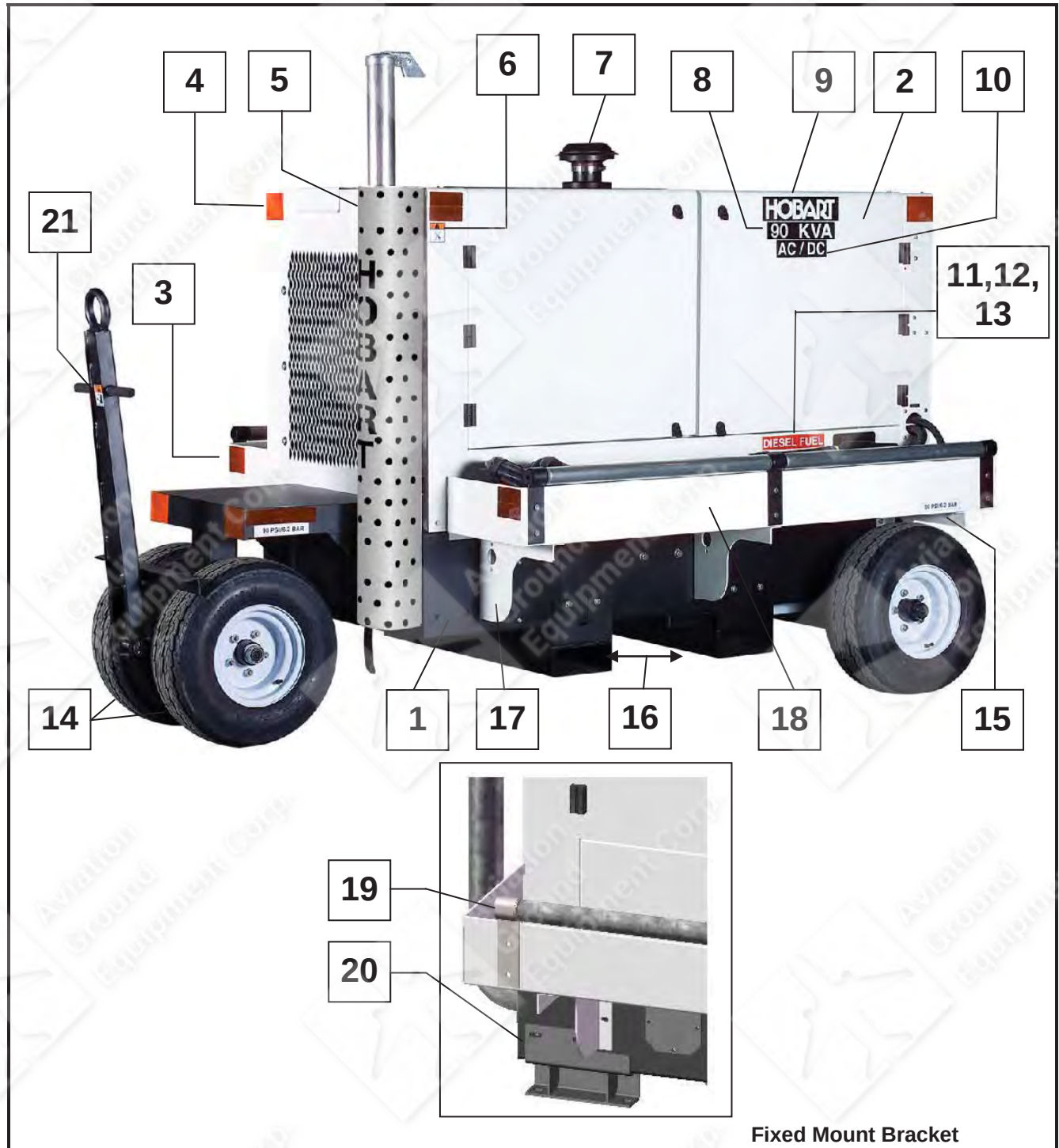
The parts list is arranged so that the illustration will appear on a left-hand page and the applicable parts list will appear on the opposite right-hand page. Unless the list is unusually long, the user will be able to look at the illustration and read the parts list without turning a page.

2) Symbols and Abbreviations

The following is a list of symbols and abbreviations used in the parts list:

*	-	Item not illustrated
A, or AMP	-	Ampere
AC	-	Alternating current
AR	-	As required
DC	-	Direct current
Fig.	-	Figure
hd.	-	Head
hex	-	Hexagon
Hz	-	Hertz (cycles-per-second)
I.D.	-	Inside diameter
IN or "	-	Inch
KVA	-	Kilovolt-ampere
uF	-	Microfarad
No.	-	Number
NHA	-	Next higher assembly
PRV	-	Peak reverse voltage
PSI	-	Pounds per square inch
Ref	-	Reference (the item has been listed previously)
RH	-	Right Hand
LH	-	Left Hand
TM	-	Technical Manual
T-R	-	Transformer-rectifier
V	-	Volt or used as a prefix indicating vendor code

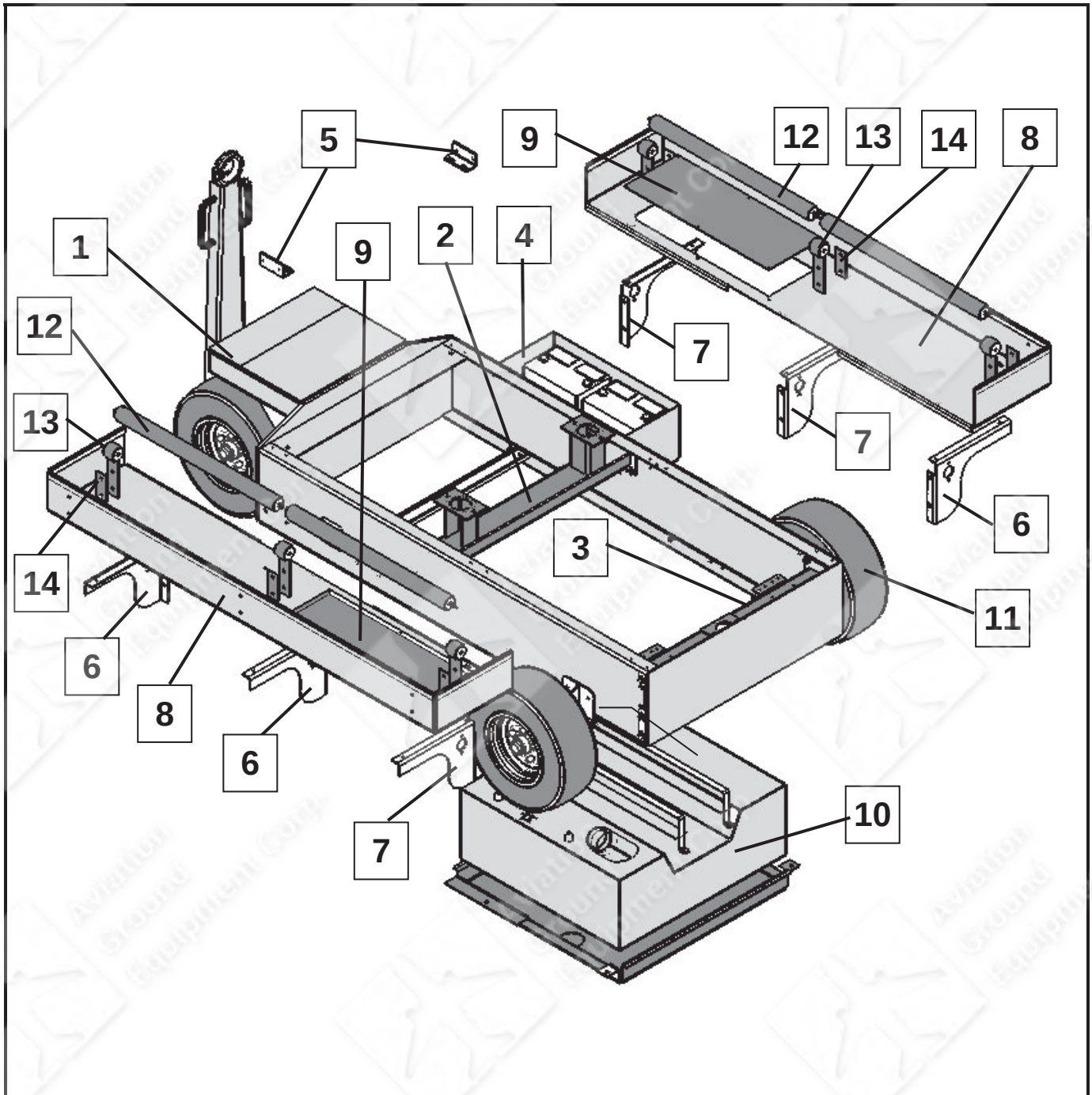
NOTE: An item which does not reflect an index number is an assembly which is not illustrated in it's assembled state, or it is similar (right-hand, left-hand, top, etc.) to an item which is illustrated.



General Assembly
Figure 1

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
1-	1	Frame Assembly (See Figure 2)		Ref.
	2	Canopy Assembly (See Figure 3 and 4)		Ref.
	3	408665-001 Reflector. Red (V12662 #B491)	A,B,C,D,G,J,K,M,N,S	8
		408665-001 Reflector. Red (V12662 #B491)	E,F,H,L,P,R,T	4
	4	408665-002 Reflector, Amber (V12662 #B491A)	A,B,C,D,G,J,K,M,N,S	24
		408665-002 Reflector, Amber (V12662 #B491A)	E,F,H,L,P,R,T	12
	5	Engine Exhaust System (See Figure 13)		Ref.
	6	287463 Label, Hot Muffler		2
	7	Engine Air Intake System (See Figure 15)		Ref.
	8	283714-002 Label, kVA Rating		2
	9	402987 Label, Hobart		2
	10	288164-001 Label, TR Unit	B,G,H,S,T	2
	11	76B1148 Label, Diesel Fuel		1
*	12	287461 Label, Fuel (under Diesel Fuel label)		1
*	13	290216 Low Emissions Label (near diesel fuel label)		1
	14	285418 Tire, Trailer Assembly (See Figure 2)	A,B,C,D,G,J,K,M,N,S	Ref.
	15	287571 Label, Tire Pressure	A,B,C,D,G,J,K,M,N,S	4
	16	291351 Pocket, Forklift	A,B	2
	17	291088 Bracket, Cable Tray Fender (See Figure 2)		Ref.
		291089 Bracket, Cable Tray Fender (See Figure 2)		Ref.
	18	Cable Tray (See Figure 2)		Ref.
	19	Cable Tray Rollers (optional) (See Figure 2)		Ref.
	20	291253-001 Bracket, Fixed Mount, LH (fixed mount units)	E,F,H,L,P,R,T	2
		291253-002 Bracket, Fixed Mount, RH (fixed mount units)	E,F,H,L,P,R,T	2
	21	287465 Label, Warning Drawbar	A,B,C,D,G,J,K,M,N,S	2
*	22	287462 Label, Radiator (on radiator access door)		1
*	23	287464 Label, Moving Parts (inside on the fan shrouds)		2
*	24	288862 Label, Caution, Engine Speed (near control panel)		1
*	25	407366 Label, Caution		1
*	26	288872 Label, Digital Controls		1
*	27	287467 Label, Glow Plug		2
*	28	289842-001 Label, www.hobartgroundpower.com		1

- Configurations A,B,C,D,G,J,K,M,N,S are trailer-mounted.
- Configurations E,F,H,L,P,R,T are fixed mount.
- Configurations B,G,H,S,T have the DC output option.

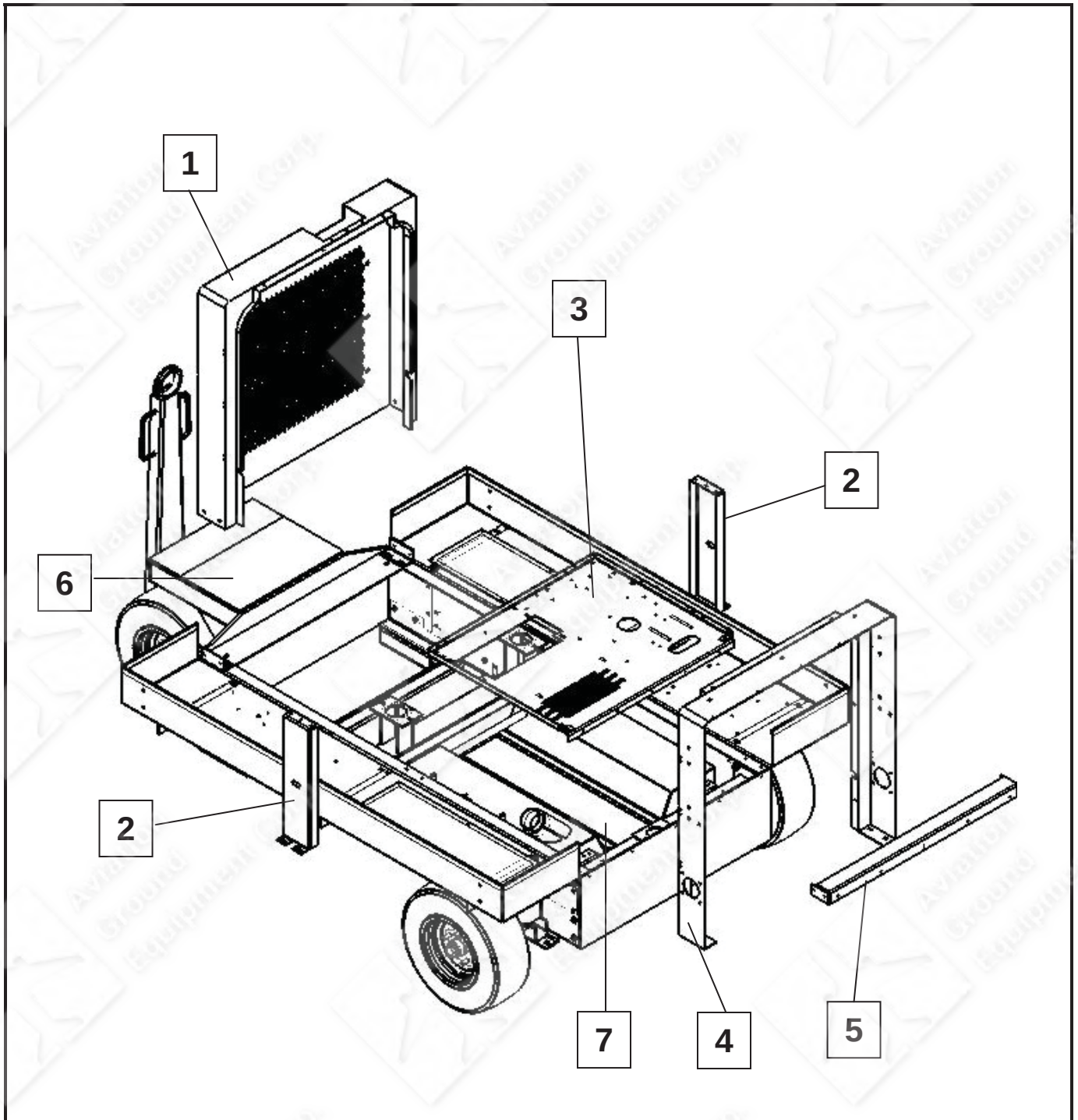


Trailer / Frame Assembly
Figure 2

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.	
2 -	1	292042	Trailer Assembly	A,B,C,D,G,J,K,M,N,S	1
	2	292012	...Engine Support (part of trailer)	A,B,C,D,G,J,K,M,N,S	1
	3	292016	...Generator Support (part of trailer)	A,B,C,D,G,J,K,M,N,S	1
	4		Battery Tray Assembly (See Fig.14)		Ref.
	5	287998	Front Panel Bracket		2
	6	291088	Bracket, Cable Tray Fender	A,B,C,D,G,J,K,M,N,S	3
	7	291089	Bracket, Cable Tray Fender	A,B,C,D,G,J,K,M,N,S	3
	8	291092	Cable Tray	A,B,C,D,G,J,K,M,N,S	2
	9	291093	Panel, Battery Tray Cover	A,B,C,D,G,J,K,M,N,S	2
	10		Fuel Tank (see Figure 12)		Ref.
	11	285418	Trailer Tire Assembly	A,B,C,D,G,J,K,M,N,S	4
*		288987-006	Kit, Cable Tray Rollers, 1 output (optional)	A,B,J	Ref.
*	12	288961-002	...Roller, Cable Tray	A,B,J	2
*	13	288966	...Support, Roller	A,B,J	3
*	14	288989-002	...Spacer, Roller Support	A,B,J	3

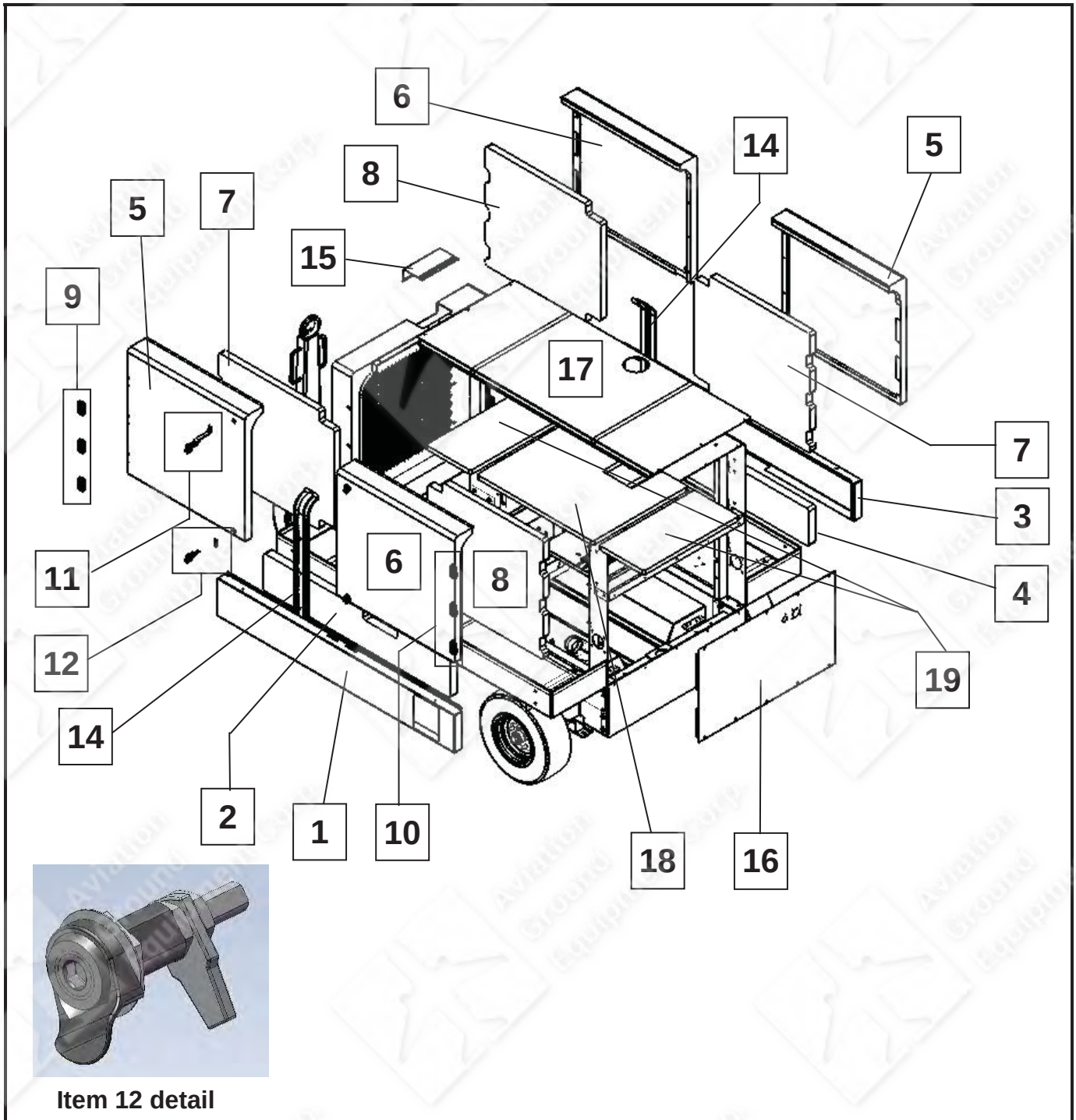
Notes:

- Configurations A,B,C,D,G,J,K,M,N,S are trailer-mounted.
- Configurations A,B,J have one output cable with rollers option.



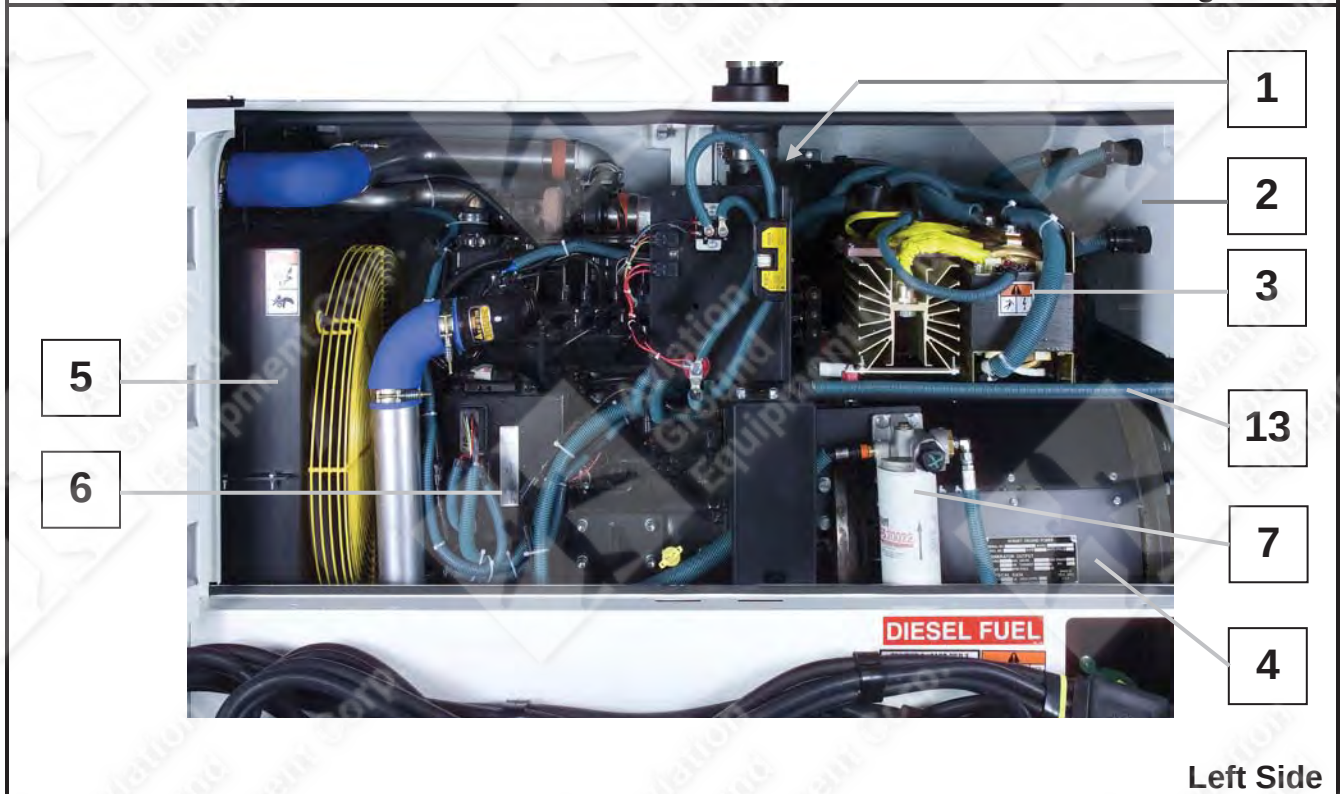
Canopy Frame Assembly
Figure 3

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
3 -	1 291069	Front Panel		1
*	287998	...Front Panel Bracket (See Figure 2)		2
	2 291152	TR Panel Support Leg		2
	3 291066	TR Support Panel		1
	4 291056	Control Panel Support		1
	5 287986	Control Panel Support Bar		1
	6	Trailer/Frame Assembly (See Figure 2)		Ref.
	7	Fuel Tank Assembly (See Figure 12)		Ref.



Canopy Assembly
Figure 4

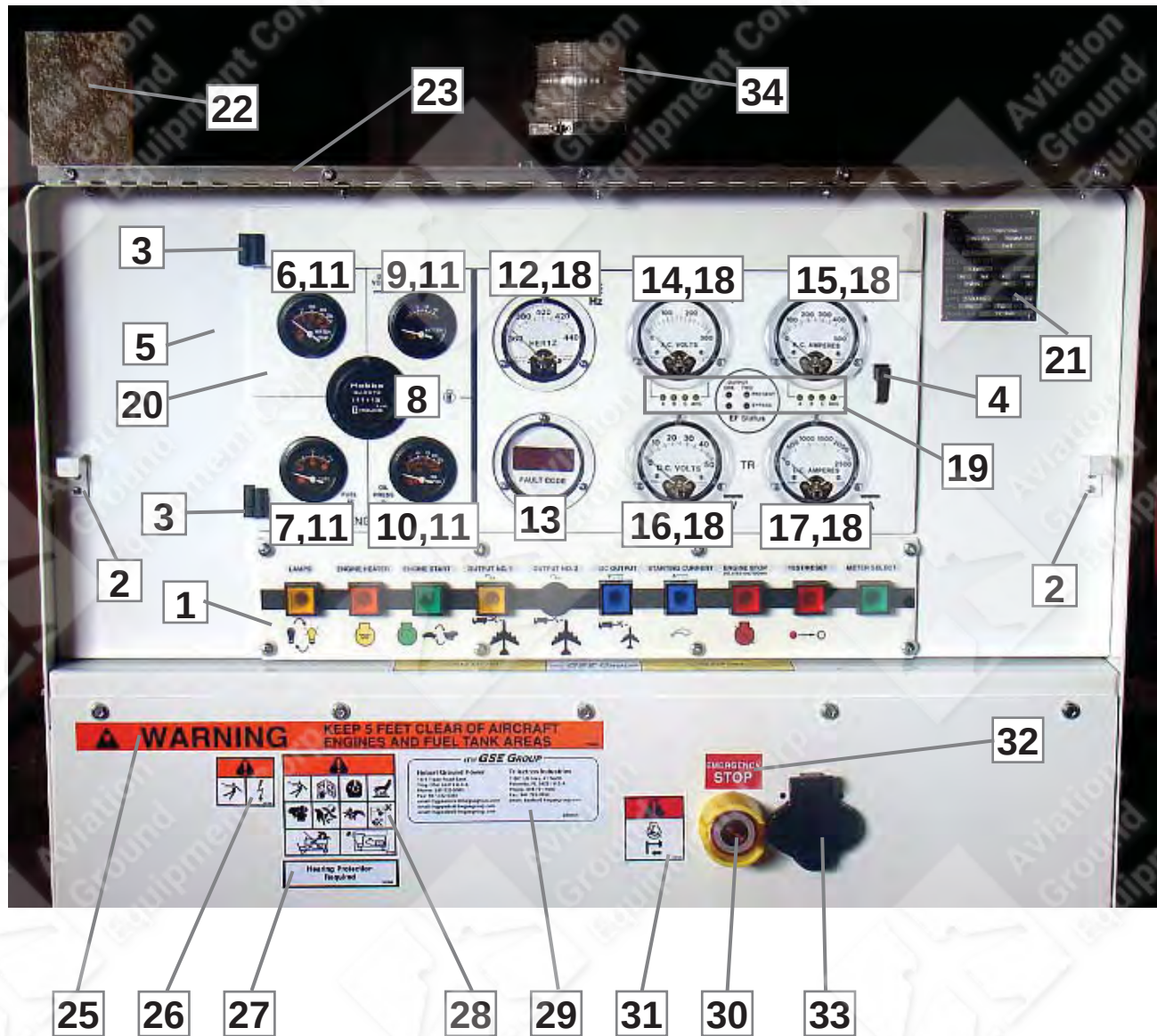
FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
4 -	1	291080	Fuel Side Lower Door Panel	1
	2	291237-002	Fuel Side Lower Door Panel Insulation	1
	3	291081	Lower Door Panel	1
*		287785	...Access Panel Fastener	2
	4	291237-001	Lower Door Panel Insulation	1
*		287785	...Access Panel Fastener	2
	5	291084	Access Door	2
	6	291297	Access Door	2
	7	291237-004	...Access Door Insulation	2
	8	291237-003	...Access Door Insulation	2
	9	283824	...Access Door Hinge Assembly (To Door PN 291084)	6
	10	283597	...Access Door Hinge Assembly (To Door PN 291297)	6
	11		...Access Door Top Latch Assembly	Ref.
*		291335	Access Door Latch Pawl	4
*		287542-001	Access Door Latch, Hex Recess	4
			C-H,K, M-T	
*		287526-002	Access Door Latch Pull Tab	4
		287542-002	Access Door Latch, T-Handle	4
			A,B,J,L	
12			...Access Door Bottom Latch Assembly	Ref.
*		291386	Access Door Latch Pawl	4
*		287542-001	Access Door Latch, Hex Recess	4
			C-H,K, M-T	
*		287526-002	Access Door Latch Pull Tab	4
		287542-002	Access Door Latch, T-Handle	4
			A,B,J,L	
*	13	286485-001	...Access Door Gasket (cut into 31-inch strips)	124"
*		050984	...Access Door Gasket (cut into 62-inch strips)	124"
	14	291057	Access Door Stop	2
	15	291302	Radiator Cap Access Door	1
	16	291087	Lower Rear Panel	1
	17	291085	Top Canopy Assembly	1
	18	291237-006	...Top Canopy Insulation	1
	19	291237-005	...Top Canopy Insulation	2
*	20	289208-005	Kit, Low Fuel Beacon, Flashing Blue	Ref.
*		408420-002	...Light, 12V, Flashing Blue (See Figure 6)	1
*		289209	...Chart, Wire	1
*		289197	...Label, Low Fuel, Warning	2
*		408352	...Socket, Relay	1
			A,B	
*		79B1140	...Relay, 12V DC	1
*		408585	...Spring, Relay	1
*		489658-002	...Diode, Relay	1
			A,B	
*	20	289208-010	Kit, Low Fuel Beacon, Clear Strobe	Ref.
*		287489-001	...Light, 12V, Strobe, Clear (See Figure 6)	1
			M	
*		289209	...Chart, Wire	1
*		289197	...Label, Low Fuel, Warning	2
*		408352	...Socket, Relay	1
*		79B1140	...Relay, 12V DC	1
*		408585	...Spring, Relay	1
*		489658-002	...Diode, Relay	1
			M	



**Internal Components
Figure 5**

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
5 -		Left Side		
1		Engine Electronic Panel (See Figure 17)		1
2		Control Box Assembly (See Figures 6, 7, and 8)		1
3	291255	28.5 VDC Transformer-Rectifier Assembly (optional)	B,G,H,S,T	1
4	288460-003	Hobart Generator Assembly (See Figure 18)		1
*	290870	...Flywheel Spacer Ring (mounted to engine flywheel)		1
*	290869	...Flywheel Housing Adapter		1
*	291055	...Bracket, Generator Support (mounted on generator)		1
*	24656	...Mount, Shock		1
5		Engine Cooling System Assembly (See Figure 10)		1
6	292050	Engine, Cummins QSB4.5-155 (V8A334)		1
*	292011	...Bracket, Engine Support (mounted on generator)		2
*	24656	...Mount, Shock		2
*	290678	...Wire Harness, Engine		1
*	482496-002	...Clamp, Universal		2
*	W10869-003	...Clamp, Hose, Stainless Steel		4
*	W10869-005	...Clamp, Hose, Stainless Steel		4
*	W10869-014	...Clamp, Hose, Stainless Steel		3
7		Engine Fuel System (See Figure 12)		Ref.
		Right Side		
8		Engine Air Intake System (See Figure 15)		Ref.
9		Engine Dongle/Battery Disconnect Panel (See Fig 11)		Ref.
10		Engine Exhaust System (See Figure 13)		Ref.
11	288895	Support, Option Terminal Block		1
*	289127	...Label, Terminal Block		1
		Miscellaneous		
12	291152	TR Panel Support Leg		2
13	291066	TR Support Panel		1

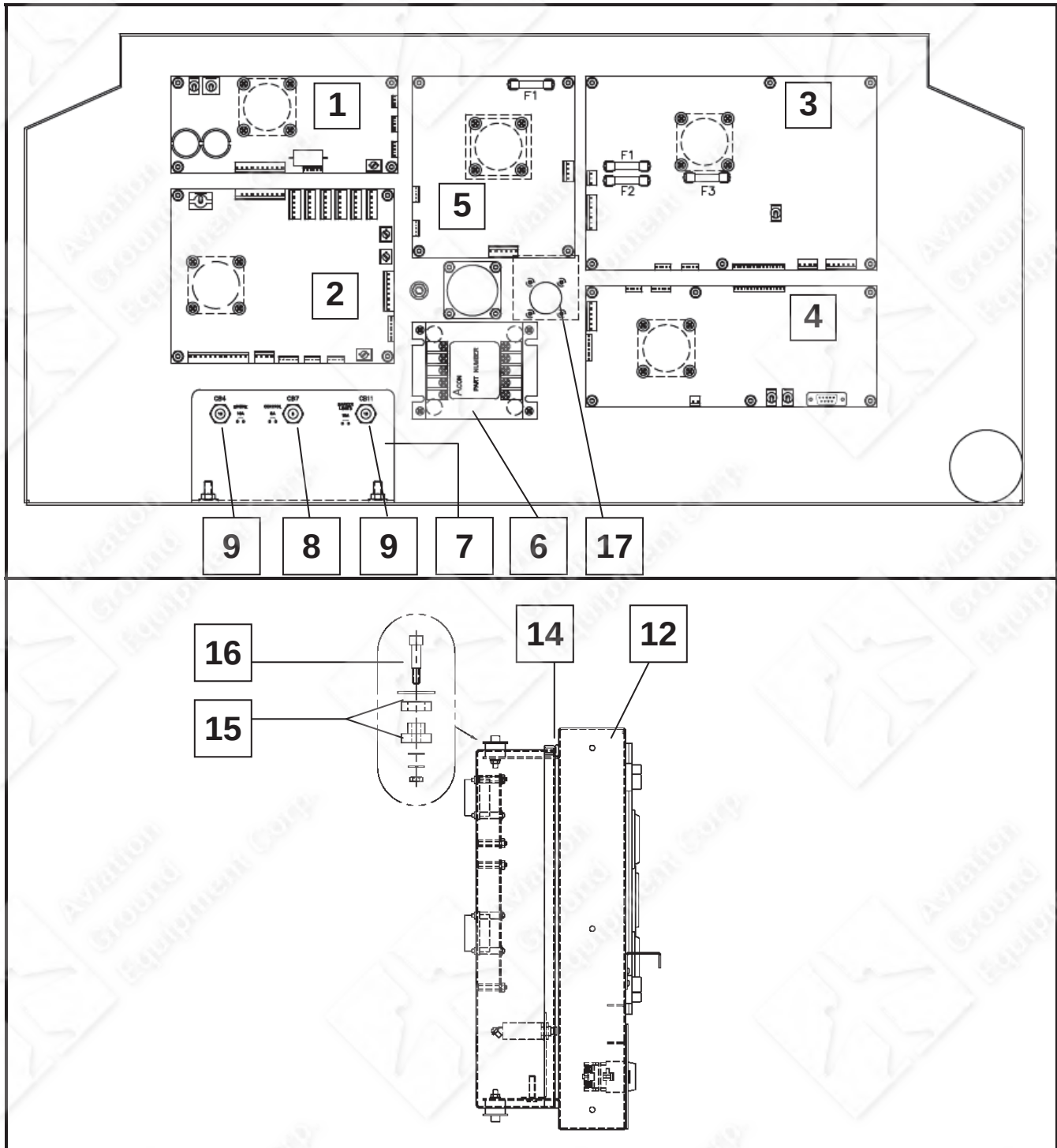
Note: Configurations B,G,H,S,T have the DC output option.



Note: Operator controls are shown with the analog generator meters and the DC output option.

**Control Box and Door Assembly
Figure 6**

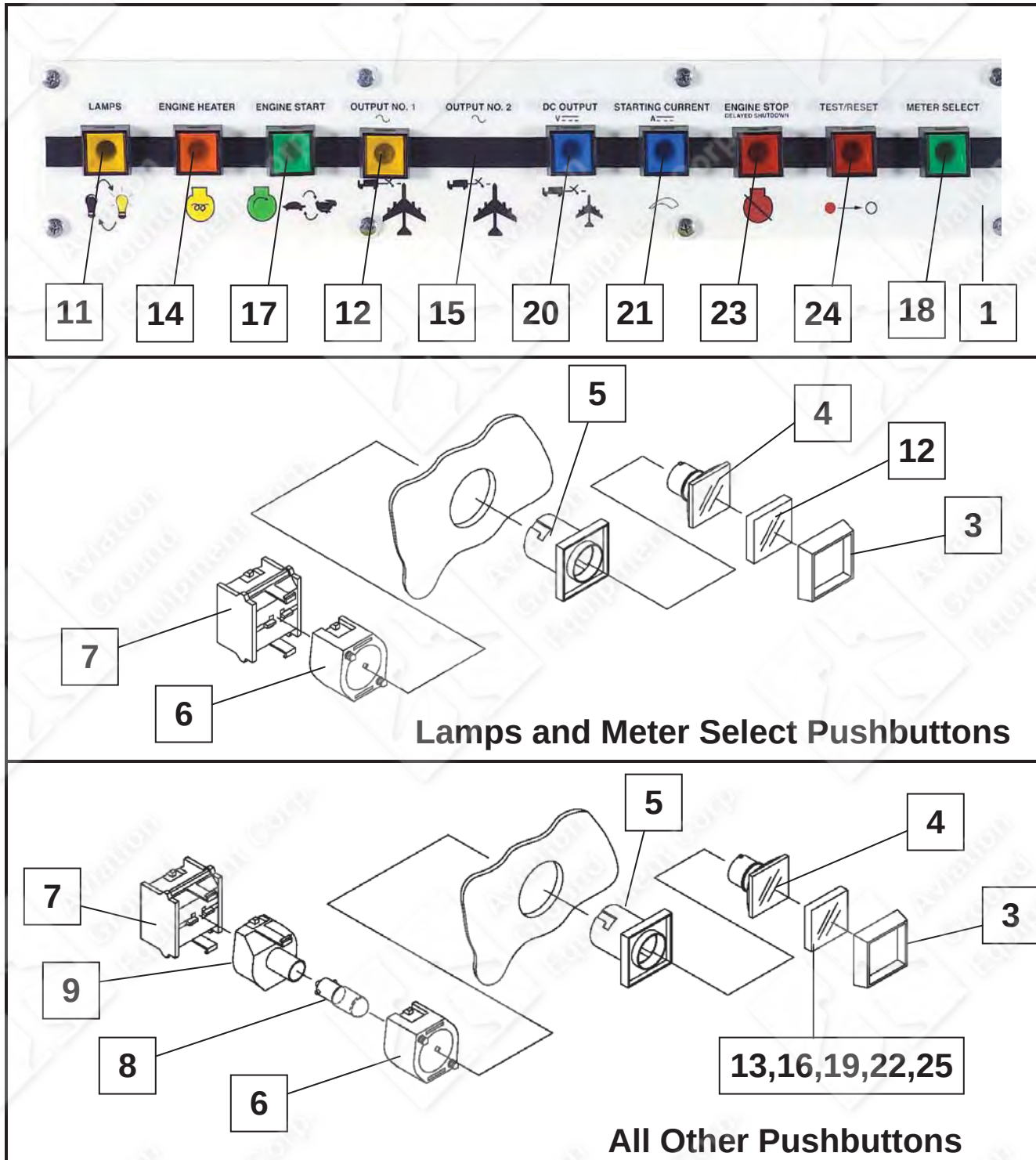
FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
6 -	1	Switch Panel (See Figure 8)		
*	291311	Control Box Interior Components (See Figure 7)		Ref.
	2	Bracket, Cover Support		2
	3	288836-001 Top Door Hinge (V94222 #96-141 Type A)		1
		288836-002 Bottom Door Hinge (V94222 #96-142 Type B)		1
	289078	Spacer, Hinge		1
	4	288999-001 Control Box Door Latch		1
	5	291307 Control Box Enclosure		1
	6	287908 Water Temperature Gauge (V16476 #06347-01)		1
	7	494134-001 Fuel Level Gauge (V16476 #06339-01)		1
	8	181358 Hour Meter (V74400 #85101)		1
	9	286699-001 Battery Voltmeter (V16476 #06351-01)		1
	10	78A1117-002 Oil Pressure Gauge (V16476 #06395-01)		1
*	11	284486-001 Light, Gauge, Engine		4
	12	283167 Analog Frequency Meter		1
	12	288858-002 Digital Frequency Meter	K	1
	13	288858-004 Fault Code Meter		1
	14	W8105A-009 Analog AC Voltmeter		1
	14	288858-003 Digital AC Voltmeter	K	1
	15	288814-001 Analog AC Ammeter		1
	15	288858-001 Digital AC Ammeter	K	1
	16	400642-008 Analog DC Voltmeter	B,G,H,S,T	1
	17	400641-015 Analog DC Ammeter	B,G,H,S,T	1
*	18	285172 Light, Strip (with analog generator meters and no DC)	A-D,G,J-M	3
*		285172 Light, Strip (with analog generator meters and DC)	B,G,H,S,T	5
	19	288806 LED PC Board (shown opposite side)		1
		...LED PC Board Gasket		1
	20	288995 Control Panel Door		1
		289017 ...Control Panel Door Label		1
*		040213 ...Gasket, Door, Neoprene		50 in.
	21	288917-002 Label, I.D.		1
	22	291329 Control Panel Cover (shown open)		1
	23	291330 Control Cover Hinge		1
*	24	288023 Wing Knob Latch		2
	25	282658 Label, Warning Clearance		1
	26	287460 Label, High Voltage		5
	27	287696 Label, Hearing Protection		1
	28	287459 Label, General		1
	29	288866 Label, Support Center		1
	30	Emergency Stop Button Assembly		Ref.
		285125 ...Guard, Mushroom Button (V14799 # K564M)		1
	31	287466 ...Label, Emergency Stop (symbols)		1
	32	288300 ...Label, Emergency Stop (English)		1
		77A1157 ...Switch, Maintained, Push-Pull (V14799 #KR-9R-H6)		1
*		291393 ...Emergency Stop Harness Extension		1
	33	289261 Block Heater Connection (Optional – See Figure 16)		Ref.
	34	289208 Low Fuel Beacon Light (Optional – See Figure 4)		Ref.



Control Box Interior Components
Figure 7

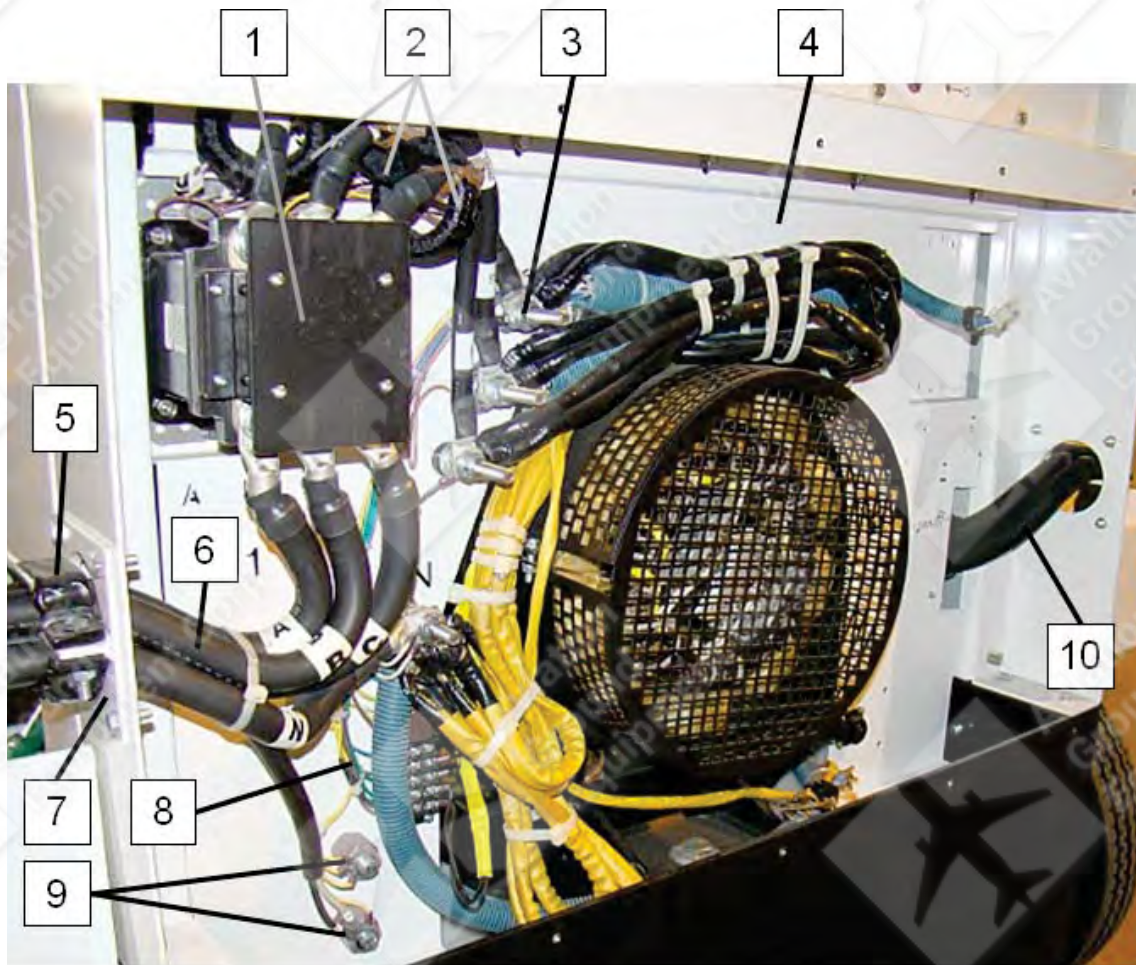
FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
7 -	291311-001	Control Box, Analog AC meters, 1 Output	A,C,E,J,M,P	Ref.
	291311-002	Control Box, Analog AC meters with DC	B,G,H,S,T	Ref.
	291311-003	Control Box, Digital AC meters	K	Ref.
	291311-005	Control Box, Analog AC meters, 2 Outputs	D,F,L,N,R	Ref.
1	288745	Engine Specific PC Board		1
*	284316-004	...PC Board Spacer		4
2	288937	Engine Interface PC Board		1
*	284316-004	...PC Board Spacer		4
3	288940B	Voltage Regulator PC Board		1
*	284316-004	...PC Board Spacer		6
4	289026	Control PC Board		1
*	284316-004	...PC Board Spacer		6
5	288914B	T-R PC Board	B,G,H,S,T	1
*	284316-004	...PC Board Spacer		4
6	288818-001	Power Supply		1
*	288605	...Power Supply Support		1
7	289122	Circuit Breaker Support		1
	289060	...Circuit Breaker Support Label		1
8	283978-001	5 A Circuit Breaker (V77342 #W23-X1A1G-5)		1
9	283978-002	10 A Circuit Breaker (V77342 #W23-X1A1G-10)		2
*	10	289073	Harness, Wire, Control Box Assembly	1
*	11	289072	DC Wire Harness	B,G,H,S,T
	12	291307	Control Box Enclosure	1
*	13	291298	Panel, Control Box Mounting	1
	14	286485-001	...Gasket	72 in.
	15	286388-001	Ring and Bushing Mount	4
	16	289104-001	Shoulder Bolt, #10-24	4
		286477-002	...Snubber Washer	4
	17	286611	Blank Label	2
*	18	288918-002	Label, Option List (inside control box door)	1

Note: Configurations B,G,H,S,T have the DC output option.



Control Switch Panel Components
Figure 8

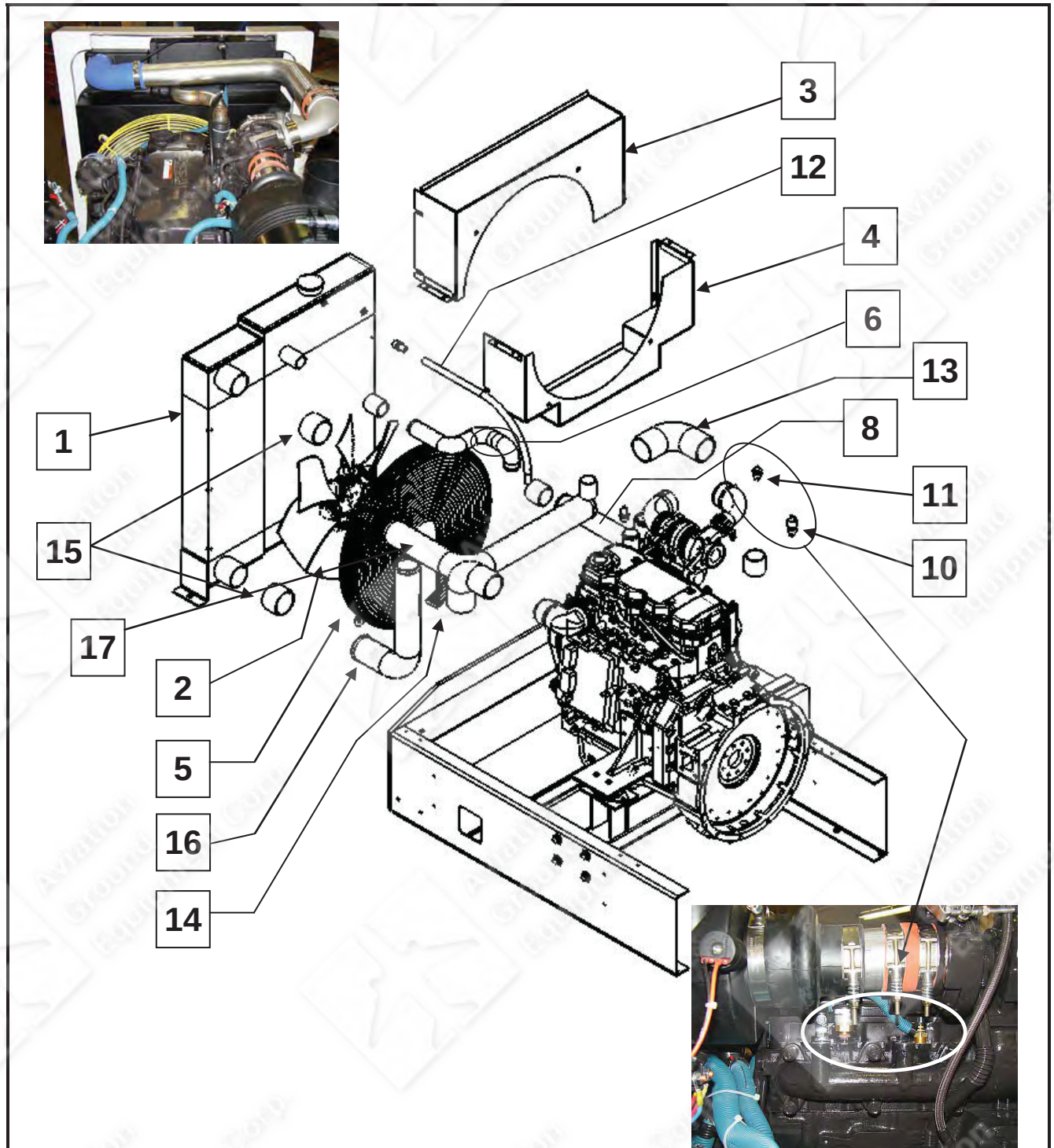
FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
8 -	1	289004		1
		289014		1
*		040201		66 in.
*	2	289015		1
Common Pushbutton Parts				
	3	285029-001		1
	4	285031-001		1
	5	285032-001		1
	6	285033		1
	7	284475-001		1
	8	400613-004		1
	9	285034-001		1
*	10	290080		1
	11	Lamps Pushbutton		1
	12	Output # 1 Pushbutton		1
	13	285030-002		1
	14	Pre-heater Pushbutton		1
	15	Output # 2 Pushbutton	D,F,L,N,R	1
	16	285030-004	D,F,L,N,R	1
	17	Engine Start Pushbutton		1
	18	Meter Select Pushbutton		1
	19	285030-003		1
	20	DC Output Pushbutton	B,G,H,S,T	1
	21	Current Pushbutton	B,G,H,S,T	1
	22	285030-005	B,G,H,S,T	1
	23	Engine Stop Pushbutton		1
	24	Test/Reset Pushbutton		1
	25	285030-001		1
Notes: - Configurations D,F,L,N,R have a second AC output. - Configurations B,G,H,S,T have the DC output option.				



Note: Shown with one AC and one DC output

400 Hz. Power Module Assembly
Figure 9

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	UNITS PER ASSY.			
			1 AC out	2 AC out	1 AC, 1 DC	
9 -	291115-001	Power Module Assembly - single	1	-	1	
	291115-002	Power Module Assembly - dual	-	1	-	
1	282130-001	Contactor, Line, 3-Pole	1	2	1	
2	285102-001	Current, Transformer (V05HB5 # 20130)	3	6	3	
3		Generator Lead Connection Assembly	Ref.	Ref.	Ref.	
*	AW626	...Bushing, Insulating [A-B-C-N]	4	5	4	
	A25	...Washer, Insulating	8	10	8	
	W11097-028	...Screw, 3/8-16 X 3.5 LG, HHC, ST.	4	5	4	
	W11242-018	...Washer, Large Flat, 3/8"	8	10	8	
	W11242-010	...Washer, Flat, 3/8"	8	10	8	
	W11254-006	...Washer, Lock, 3/8"	8	10	8	
	W11278-005	...Nut, 3/8-16, Hex	12	15	12	
4	291058	...Power Module Panel	1	1	1	
5	7J422-000	Output Cable Clamp (one AC output)	2	4	3	
*	6	402034-002	Cable, AC Output 30 ft. (single output)	1	2	1
7	288120	Output Cable Bracket (one AC or ACDC)	1	2	1	
8	290683	Harness, Wire	1	1	1	
	401911-010	...Block, Terminal	1	1	1	
9	286266	Standoff, Short [E-F]	2	4	2	
	402119-002	...Screw, 1/4-20 X .5 LG, HHC, ST.	4	8	4	
10	402025-003	Cable, DC Output 30 ft. (DC option)	-	-	1	
*	11	289318	Harness, Wire, 2nd Output (2 AC outputs)	-	1	-
*	12	282089-011	Diode, Flyback	1	1	1
*	13	288892-001	Resistor, ID, Power Module	1	1	1
*	14	288974	Noise Suppression Capacitors	1	1	1
*	15	488640	Bracket, Output Cable (for DC)	-	-	1
*	16	287698-001	Cover, Output Cables (for single output)	1	-	-
Configurations A,C,E,J,K,M,P have one AC output. Configurations D,F,L,N,R have two AC outputs. Configurations B,G,H,S,T have AC and DC outputs						



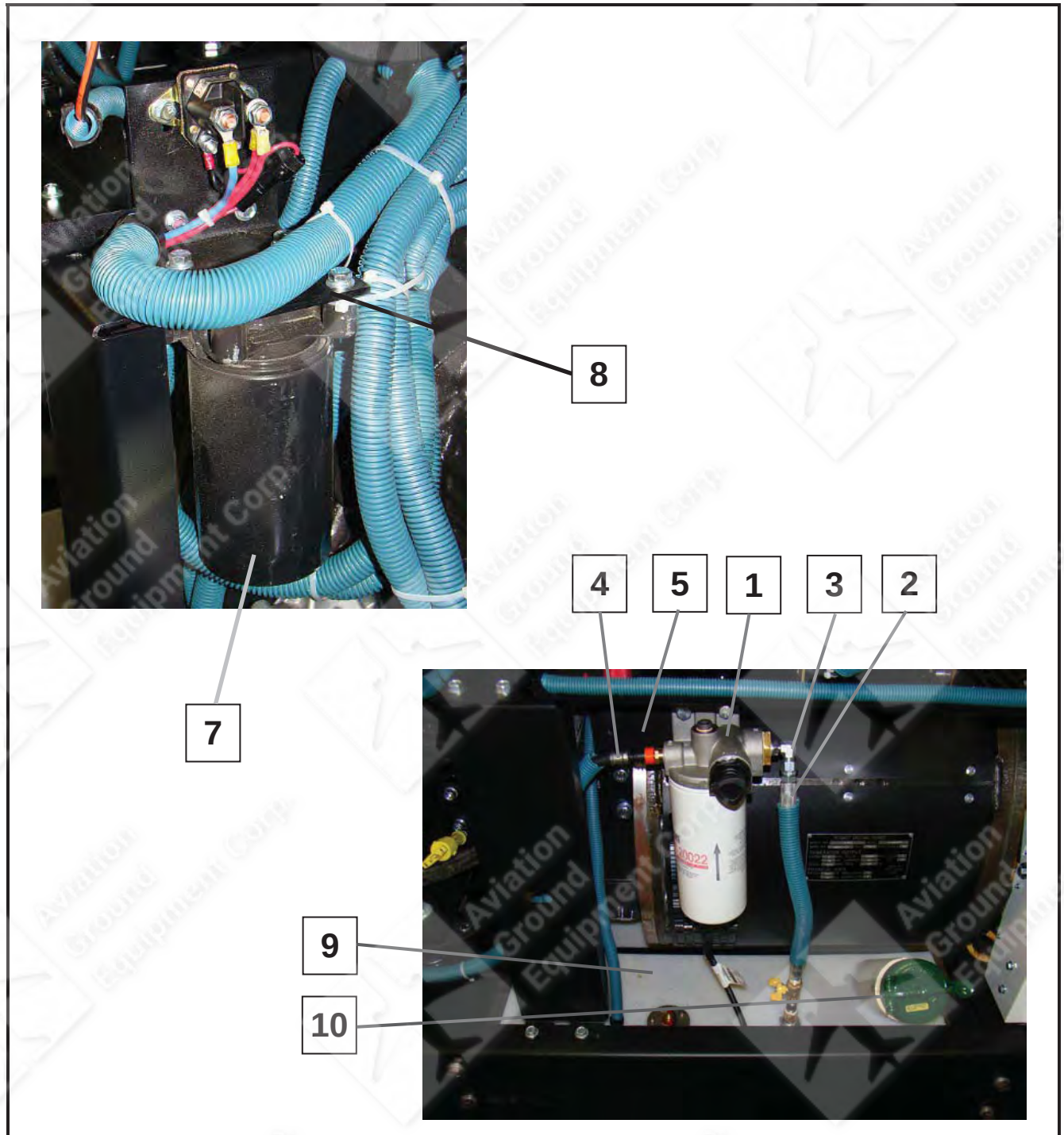
Engine Cooling System Assembly
Figure 10

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
10 -	1	291223		1
*		290145		1
*		283873		1
*		056535		1'
	2	291224		1
	3	291070		1
*		291097		1
	4	291071		1
	5	291225		1
	6	291072		1
	7	289200-001		6"
	8	291073		1
	9	289200-002		6"
	10	403782-002		1
	11	287909		1
*		W7814-004		1
	12	Deaeration Line		Ref.
		288187		1
		056535		32"
		W10869-014		2
	13	289828		1
	14	289827		1
	15	290936		2
	16	291075		1
	17	291074		1
*	18	290597-001		8



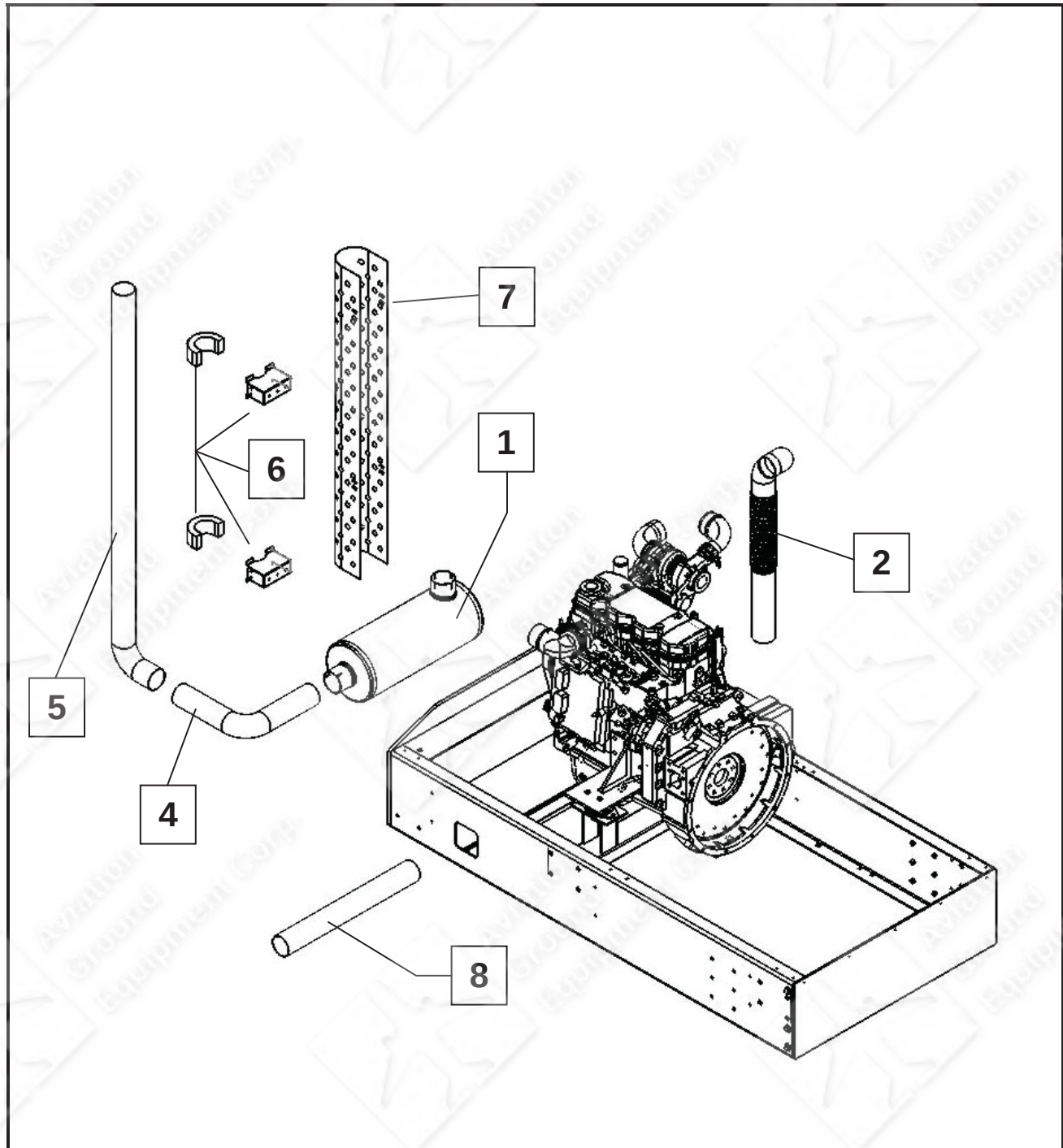
Engine Ground Plate and Battery Disconnect Switch
Figure 11

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
11 -	1	291079		1
*		405548		2
	2	W9407-446		2
	3	W9360-381		1
	4	Engine Dongle and Battery Disconnect Panel		Ref.
*		291334		1
*		290831		1
*		290847		1
*		291482		1
*		W9360-289		1
*	5	290678		1
*		HF2962		1



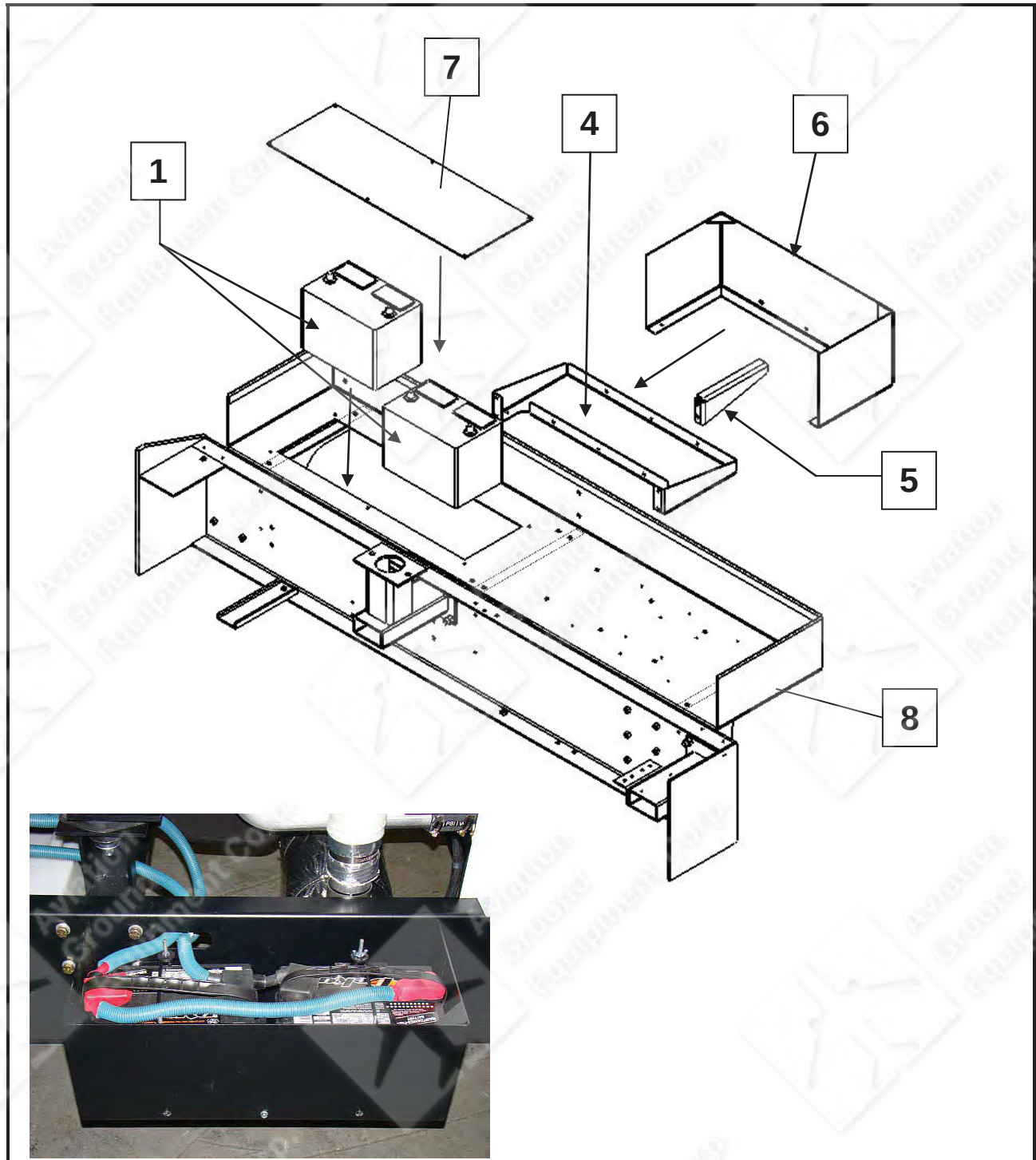
Engine Fuel Filters and Fuel Lines
Figure 12

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
12 -	1	286897-031		1
	2	291114		1
	3	290388		1
	4	Call Factory		1
	5	289037		1
*	6	290686		1
	7	286897-036		1
	8	291076		1
	9	291420	C - T	1
*		486719-005		1
*		291407	C - T	1
*		291408	C - T	2
*		291409	C - T	2
	9	291550	A,B	1
	10	282562		1



Engine Exhaust Components
Figure 13

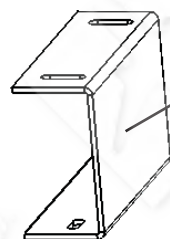
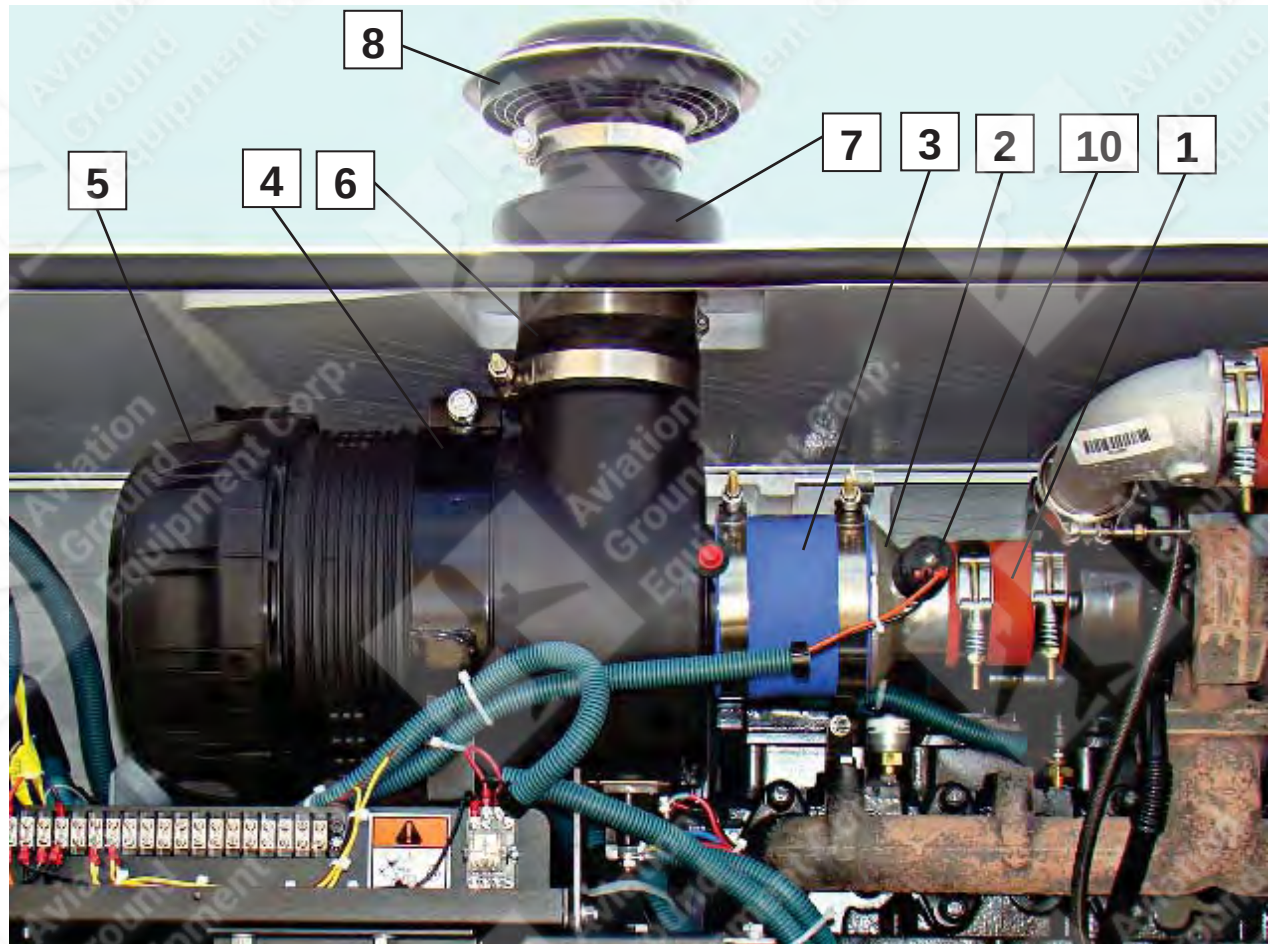
FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
13 -		Common Exhaust Components		
	1 291168	Muffler and Exhaust Ay.		1
*	IN5016	...Muffler Wrap Insulation		3.5 ft ²
*	288052-002	...Accuseal Clamp (3.0")		2
	2 291077	Exhaust Flex Pipe Assembly		1
*	EB5224	...Muffler Wrap Insulation		1.7 ft ²
*	404154-013	...Full Circle Clamp, 3.0"		1
*	W10869-006	...Stainless Steel Hose Clamp		7
*	3 291394	Exhaust Hole Cover		1
*	291395	Vertical Exhaust Components	A-L	REF
	4 291379	Exhaust Outlet Elbow	A-L	1
*	288052-002	...Accuseal Clamp (3.0")	A-L	1
*	EB5224	...Muffler Wrap Insulation	A-L	3.0 ft ²
*	W10869-006	...Stainless Steel Hose Clamp	A-L	2
	5 291380	Exhaust Outlet Pipe (vertical)	A-L	1
*	288052-002	...Accuseal Clamp (3.0")	A-L	1
	6 291383	Stainless Steel Exhaust Clamp	A-L	2
	7 291382	Guard, ¾, Exhaust, Stainless Steel	A-L	1
		Horizontal Exhaust Components		
	8 291169	Exhaust Outlet Pipe (horizontal)	M-T	1
*	288052-002	...Clamp, Accuseal, 3"	M-T	1
*	EB5224	...Muffler Wrap Insulation (Elbow)	M-T	3 ft ²
*	W10869-006	...Clamp, Hose, Stainless Steel	M-T	2



12 VDC Battery System
Figure 14

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
14 -	1	281881-001	Battery, 12 V (V25710 #1231-PMF)	2
*		287796	...Hold Down, Battery (V3Y208)	2
*		494295	...Bolt, Hold Down, Battery (V3Y208)	4
*	2	290902	Cable, Battery, Negative (V3Y208)	1
*	3	291481	Cable, Battery, Positive (V3Y208)	1
	4	287795	Battery Tray	1
	5	291160	Battery Tray Support Bracket	1
	6	291067	Battery Tray Housing	1
	7	291093	Panel, Battery Tray Cover	2
	8	291092	Cable Tray	2
			A,B,C,D,G,J,K,M,N,S	

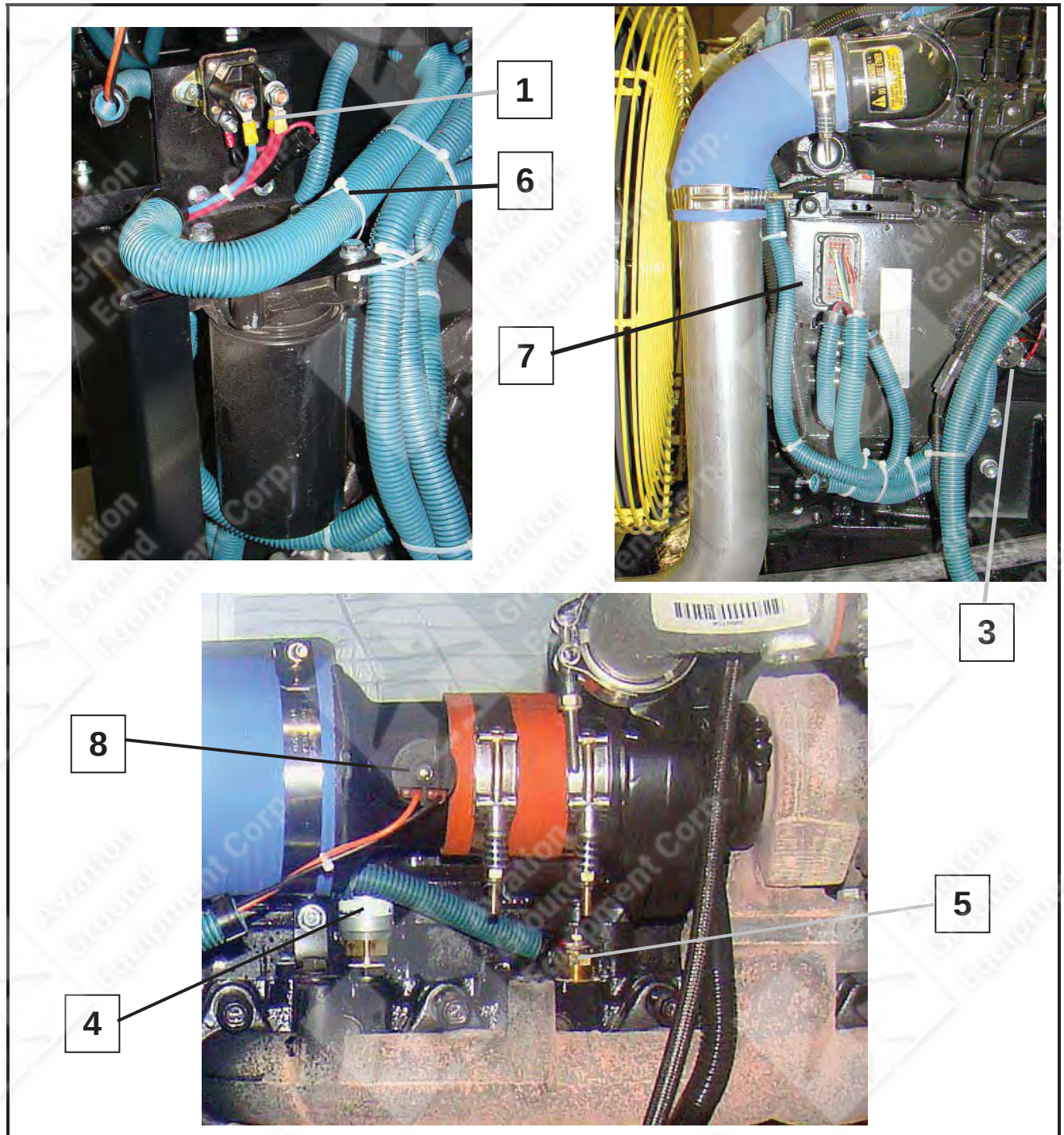
Note: Configurations A,B,C,D,G,J,K,M,N,S are trailer-mounted.



9
(Located under item 4)

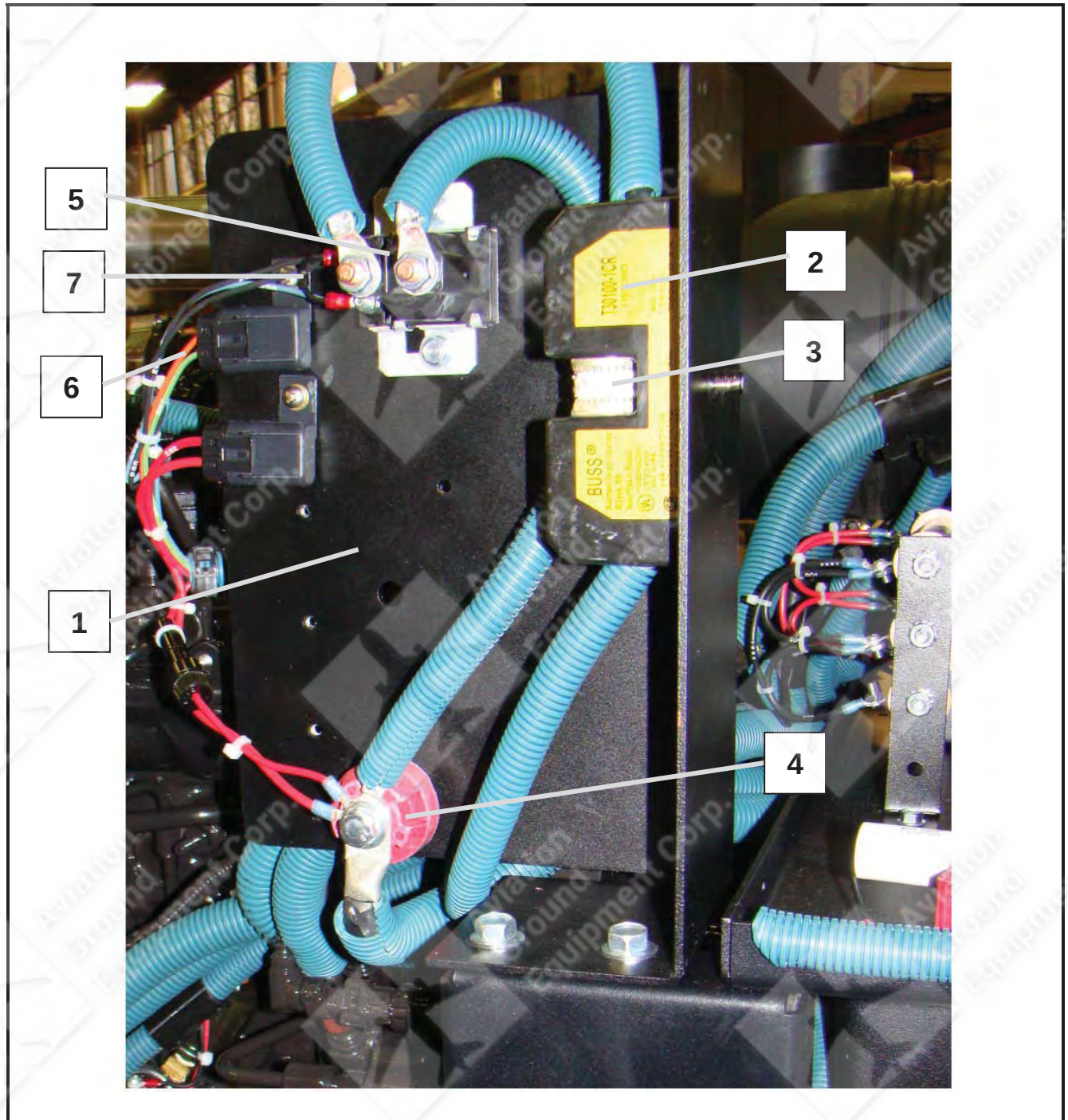
Engine Air Intake Assembly
Figure 15

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
15 -	1	290936		1
*		290597-001		2
	2	291466		1
	3	291468		1
*		290597-008		2
	4	291458		1
	5	291460		1
	6	291514		1
*		290597-008		1
*		291516		1
	7	291508		1
	8	290939		1
	9	291459		1
	10	282918		1
*		282919		1



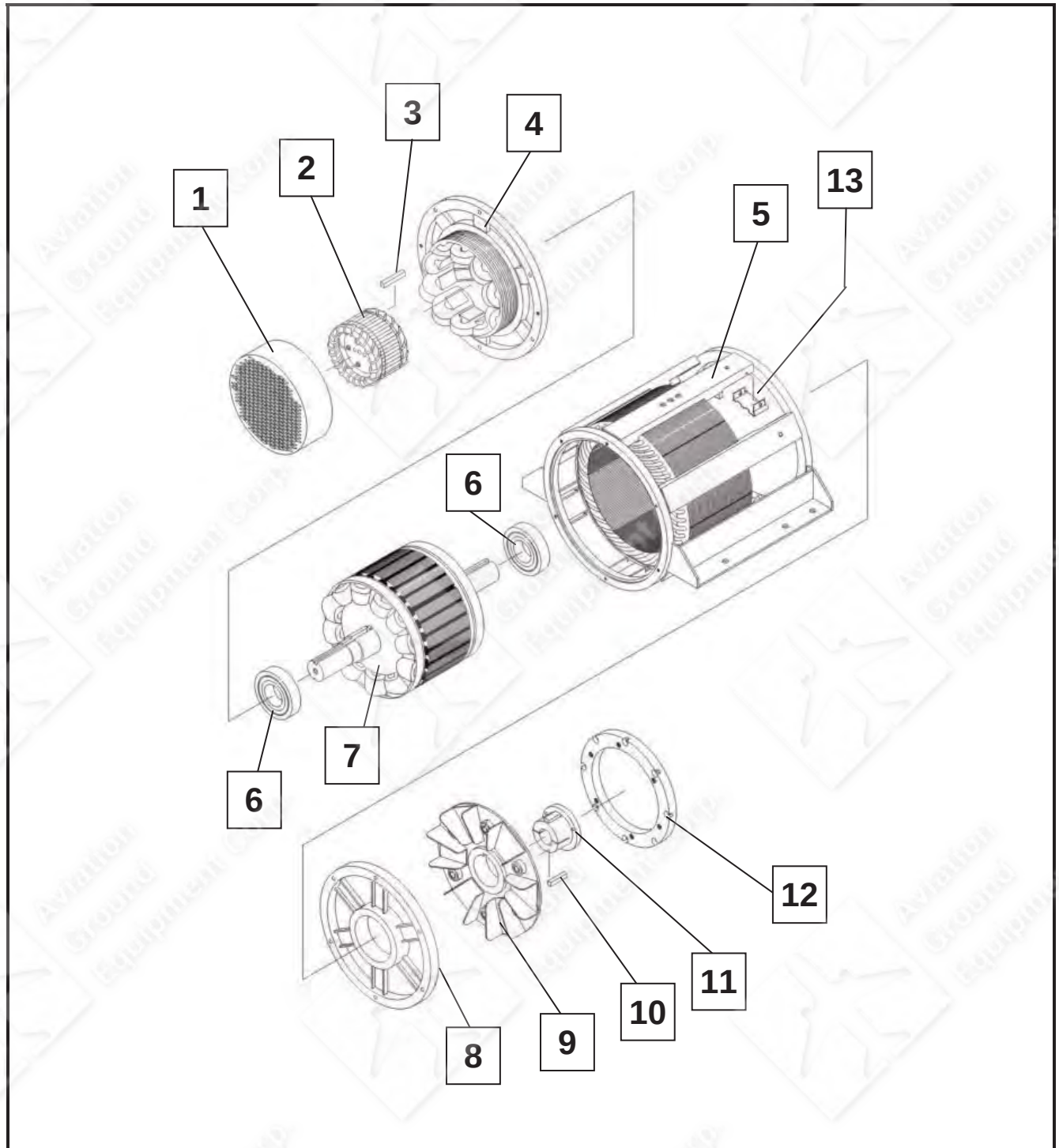
Engine Components
Figure 16

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
16 -	1	286850 Starter Solenoid (V13445 # 24059)		1
		288973-001 ...Diode, Starter Solenoid, Assembly		1
*	2	403809-002 Switch, Oil Pressure (V75419 #1042-08210-20)		1
	3	78B1118-002 Sender, Oil Pressure (V16476 #16476)		1
*		W7814-000 ...Bushing, Pipe, Steel, 1/4 X 1/8		1
*		286903 ...Adapter, M14-1.5 x 1/4 NPT		1
*		W10910-000 ...Fitting, Tee		1
*		W10750-001 ...Nipple, Pipe, 1/8"		1
	4	403782-002 Water Temp Sw, 210° F (V75418 #1002-04880-36)		1
	5	287909 Sender, Water Temperature (V16476 #02019)		1
	6	290678 Engine Wire Harness		1
	7	290944 Electronic Engine Wire Harness		1
	8	282918 Air Restriction Indicator (V18265 #REX77-0062)		1
*		282919 ...Adapter, Indicator		1
*	9	289261-001 Block Heater Kit, 120V(Optional)	A,B,J,L	Ref
*		289249-005 ...Heater, Engine Block	A,B,J,L	1
*		289250-001 ...Cable, Engine Block Heater	A,B,J,L	1
*		76A1131 ...Z-Flex, 1/2" D	A,B,J,L	68"
*	10	056525 Hose, Rubber, 3/4" ID x 1/8" Wall (crankcase)		66"



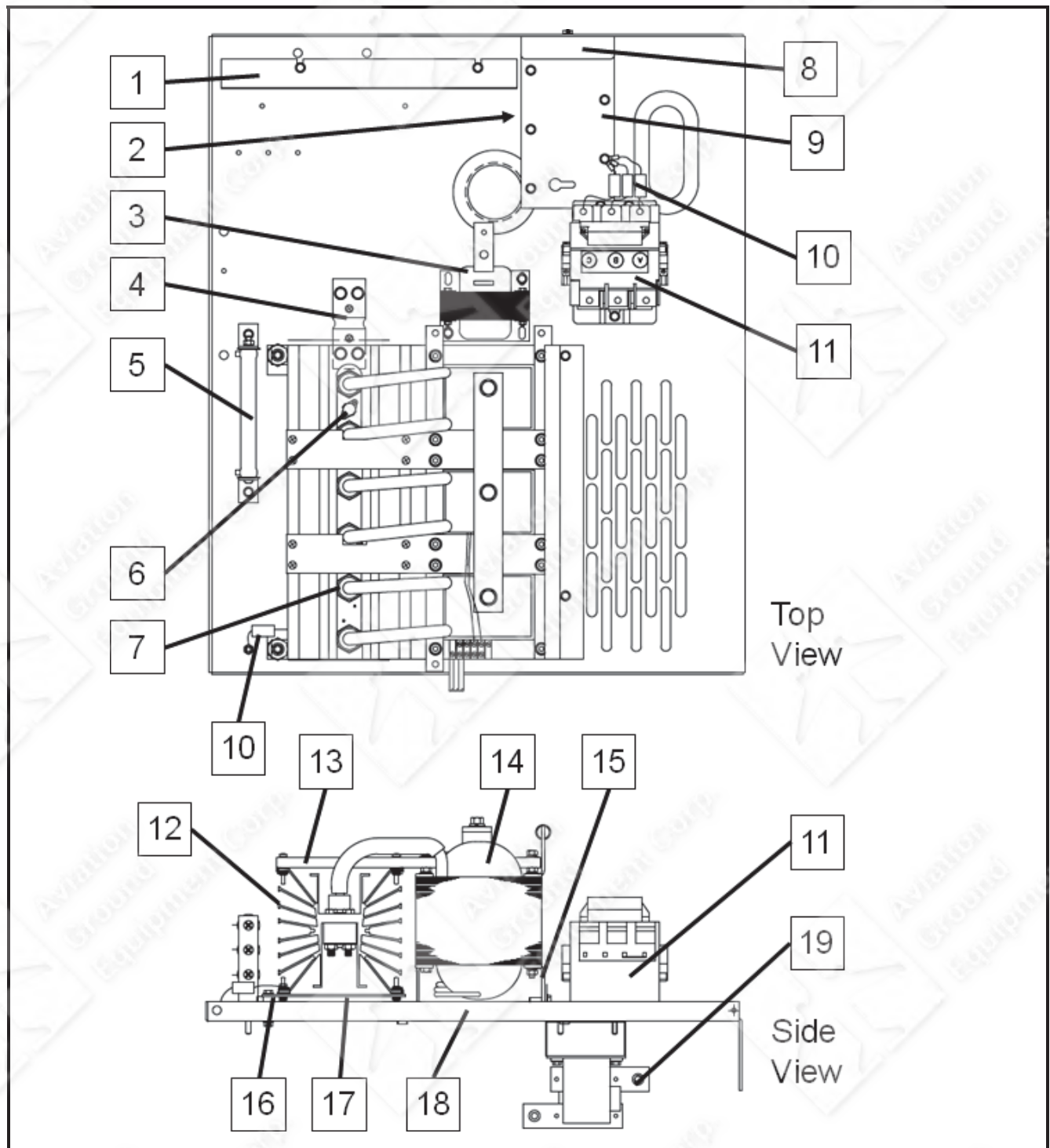
Engine Electronic Panel Components
Figure 17

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
17 -	1 291248	Panel, "E" Engine, Parts		1
	2 287145-001	Holder, Fuse		1
	3 287144-002	Fuse, Fast Acting		1
	4 283154-001	Insulator, Standoff		1
	5 288331	Relay, Grid Heater, Power (V02929 50F3662)		1
*	6 290944	Harness, Wire, Engine, Electronic		1
	7 489658-007	...Diode Assembly		1



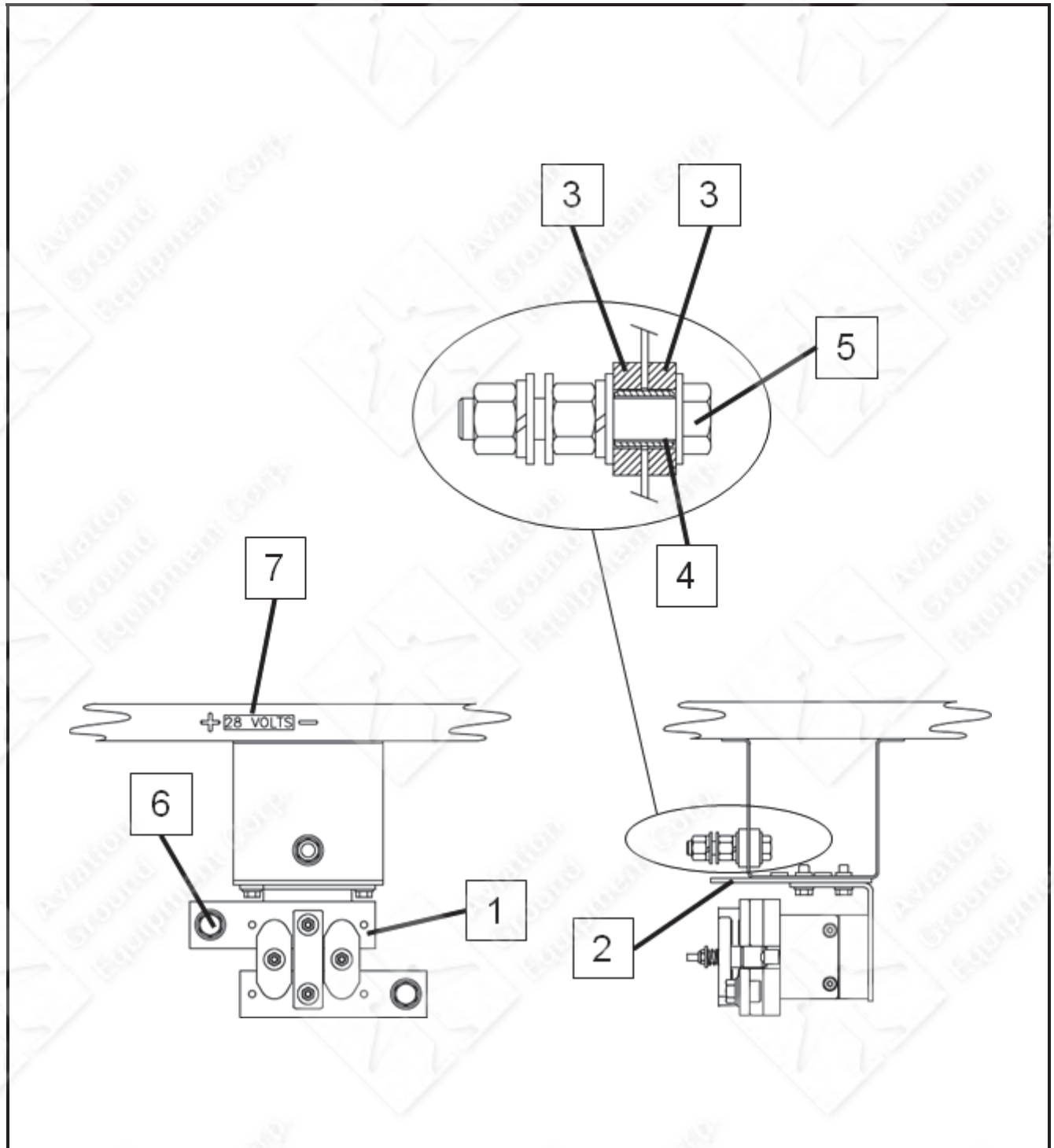
Generator Assembly
Figure 18

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
18 -	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 291082	Generator Housing and Coils Assembly		1
	6 W10072-068	Bearing		2
	7 288447-003	Generator Rotor		1
	8 288461	Front Bearing Support		1
	9 288481	Flexible Coupling Kit		1
*	480290	...Rubber Coupling Bushing		8
	10 85B1039	Coupling Key		1
	11 85C1004-001	Split Taper Bushing		1
	12 290870	Flywheel Adapter Ring		1
	13 288458	Generator Air Deflector		6
*	14 291103	Generator Cover		1
*	15 288491	Tab, Fastener, Exciter Key		1



Transformer Rectifier Assembly – Part 1
Figure 19

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNITS PER ASSY.
19	291255	Transformer Rectifier Assembly	B,G,H,S,T	Ref.
1	288895	Support, Options Terminal Block (see Figure 5)		1
2	288117	Capacitor, TR, PC Board (under item 9)	B,G,H,S,T	1
3	288092	Choke, DC	B,G,H,S,T	1
4	280022	Shunt, 800 A, 50 mV	B,G,H,S,T	1
*	290827	...Bus Bar, Shunt Mounting	B,G,H,S,T	1
5	288095-001	Resistor, Preload, Assembly	B,G,H,S,T	1
*	288380-001	...Resistor, Fixed, 10 Ohm, 100W	B,G,H,S,T	Ref.
6	404044-004	Thermostat	B,G,H,S,T	1
7	W10931-003	Diode, Silicon, 275 A, Positive Base	B,G,H,S,T	6
8	291558	Bracket, Capacitor and PC Board	B,G,H,S,T	1
9	289006	Support, PC Board	B,G,H,S,T	1
10	290534-001	Kit, Noise Suppression Filter	B,G,H,S,T	1
	290533-001	Capacitor Assembly	B,G,H,S,T	3
	290533-002	Capacitor Assembly	B,G,H,S,T	1
11	282130-001	Contactor, Input	B,G,H,S,T	1
*	77A1107	...Label "A"	B,G,H,S,T	1
*	77A1108	...Label "B"	B,G,H,S,T	1
*	77A1109	...Label "C"	B,G,H,S,T	1
12	286603	Heat Sink, Extruded	B,G,H,S,T	1
13	288404	Support, Heat Sink	B,G,H,S,T	2
14	286604	Transformer, 28.5 VDC	B,G,H,S,T	1
*	281971-002	Resistor Assembly	B,G,H,S,T	1
15	288085	...Bracket, Transformer	B,G,H,S,T	1
16	286266	Standoff, Short	B,G,H,S,T	5
17	288147	Bracket, Heat Sink	B,G,H,S,T	2
18	291066	Panel, Support, TR		1
*	19	Contactor, Output (see Figure 20)	B,G,H,S,T	Ref.
*	20	289156	Harness, Wire, TR Assembly	1
*	21	289096	Chart, Cable	1



Transformer Rectifier Assembly – Part 2
Figure 20

FIGURE ITEM NO.	PART NO.	NOMENCLATURE	EFF	UNIT PER ASSY.	
20	1	286810-001	Contactor, DC, 800 A, 24 VDC	B,G,H,S,T	1
	2	286849	Insulator, Contactor	B,G,H,S,T	1
	3	A25	Washer, Insulating	B,G,H,S,T	2
	4	288099	Bushing, Insulating	B,G,H,S,T	1
**	5	Output Stud	B,G,H,S,T	Ref.	
		...Screw, 3/8-16 X 2, HHC	B,G,H,S,T	1	
		...Washer, 3/8, Flat	B,G,H,S,T	6	
		...Washer, 3/8, Lock	B,G,H,S,T	2	
		...Nut, 3/8-16, Hex	B,G,H,S,T	2	
**	6	Contactor Studs	B,G,H,S,T	Ref.	
		...Screw, 3/8-16 X 1.0, HHC, ST.	B,G,H,S,T	2	
		...Washer, 3/8, Flat	B,G,H,S,T	2	
		...Washer, 3/8, Lock	B,G,H,S,T	2	
	7	400435	Label, 28 Volts	B,G,H,S,T	1
** Standard SAE hardware.					

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Section 2 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.
8-	040201	7-9	283978-002
6-	040213	7-	284316-004
13-	IN5016	7-	284316-004
13-	IN5016	7-	284316-004
13-	IN5016	7-	284316-004
13-	IN5016	7-	284316-004
4-	050984	5-	24656
16-10	056525	8-7	284475-001
10-	056535	6-11	284486-001
10-	056535	8-3	285029-001
18-3	180696-003	8-25	285030-001
6-8	181358	8-13	285030-002
19-4	280022	8-19	285030-003
14-1	281881-001	8-16	285030-004
19-	281971-002	8-22	285030-005
9-12	282089-011	8-4	285031-001
9-1	282130-001	8-5	285032-001
19-11	282130-001	8-6	285033
12-10	282562	8-9	285034-001
6-25	282658	9-2	285102-001
15-10	282918	6-	285125
16-8	282918	6-	285172
15-	282919	6-18	285172
16-	282919	1-14	285418
17-4	283154-001	2-11	285418
6-12	283167	9-9	286266
4-10	283597	19-16	286266
1-8	283714-002	7-15	286388-001
4-9	283824	7-	286477-002
10-	283873	4-13	286485-001
7-8	283978-001	7-14	286485-001

FIGURE ITEM NO.	HOBART PART NO.	FIGURE ITEM NO.	HOBART PART NO.
19-12	286603	16-5	287909
19-14	286604	2-3	292016
7-17	286611	3-5	287986
6-9	286699-001	2-5	287998
20-1	286810-001	3-	287998
20-2	286849	6-2	288020
16-1	286850	6-24	288023
12-1	286897-031	13-	288052-002
12-7	286897-036	13-	288052-002
16-	286903	13-	288052-002
17-3	287144-002	13-	288052-002
17-2	287145-001	19-15	288085
6-28	287459	19-3	288092
6-26	287460	19-5	288095-001
1-12	287461	20-4	288099
1-22	287462	5-	24656
1-6	287463	19-2	288117
1-23	287464	9-7	288120
1-21	287465	19-17	288147
6-31	287466	1-10	288164-001
1-27	287467	10-	288187
4-	287489-001	6-32	288300
4-	287526-002	17-5	288331
4-	287526-002	19-	288380-001
4-	287542-001	19-13	288404
4-	287542-001	18-4	288440
4-	287542-002	18-7	288447-003
4-	287542-002	18-13	288458
1-15	287571	5-4	288460-003
6-27	287696	18-8	288461
9-16	287698-001	18-9	288481
4-	287785	18-1	288486
4-	287785	18-15	288491
14-4	287795	18-2	288494
14-	287796	7-	288605
6-6	287908	7-1	288745
10-11	287909	6-19	288806

FIGURE ITEM NO.	HOBART PART NO.
6-15	288814-001
7-6	288818-001
6-	288820
6-3	288836-001
6-	288836-002
6-15	288858-001
6-12	288858-002
6-14	288858-003
6-13	288858-004
1-24	288862
6-29	288866
1-26	288872
9-13	288892-001
5-11	288895
19-1	288895
7-5	288914B
6-21	288917-002
7-18	288918-002
7-2	288937
7-3	288940B
2-12	288961-002
2-13	288966
16-	288973-001
9-14	288974
2-	288987-006
2-14	288989-002
6-20	288995
6-4	288999-001
8-1	289004
19-9	289006
8-	289014
8-2	289015
6-	289017
7-4	289026
12-5	289037
7-	289060
7-11	289072

FIGURE ITEM NO.	HOBART PART NO.
7-10	289073
6-	289078
19-21	289096
7-16	289104-001
7-7	289122
5-	289127
19-20	289156
4-	289197
4-	289197
10-7	289200-001
10-9	289200-002
6-34	289208
4-20	289208-005
4-20	289208-010
4-	289209
4-	289209
16-	289249-005
16-	289250-001
6-33	289261
16-9	289261-001
9-11	289318
10-14	289827
10-13	289828
1-28	289842-001
8-10	290080
10-	290145
1-13	290216
12-3	290388
19-	290533-001
19-	290533-002
19-10	290534-001
10-18	290597-001
15-	290597-001
15-	290597-008
15-	290597-008
5-	290678
11-5	290678

FIGURE ITEM NO.	HOBART PART NO.
16-6	290678
9-8	290683
12-6	290686
19-	290827
11-	290831
11-	290847
5-	290869
5-	290870
18-12	290870
14-2	290902
10-15	290936
15-1	290936
15-8	290939
16-7	290944
17-6	290944
2-2	292012
2-1	292042
5-	292011
5-	291055
3-4	291056
4-14	291057
9-4	291058
3-3	291066
5-13	291066
19-18	291066
14-6	291067
3-1	291069
10-3	291070
10-4	291071
10-6	291072
10-8	291073
10-17	291074
10-16	291075
12-8	291076
13-2	291077
11-1	291079
4-1	291080

FIGURE ITEM NO.	HOBART PART NO.
4-3	291081
18-5	291082
4-5	291084
4-17	291085
4-16	291087
1-17	291088
2-6	291088
1-	291089
2-7	291089
2-8	291092
14-8	291092
2-9	291093
14-7	291093
10-	291097
18-14	291103
5-6	292050
12-2	291114
9-	291115-001
9-	291115-002
3-2	291152
5-12	291152
14-5	291160
13-1	291168
13-8	291169
10-1	291223
10-2	291224
10-5	291225
4-4	291237-001
4-2	291237-002
4-8	291237-003
4-7	291237-004
4-19	291237-005
4-18	291237-006
17-1	291248
1-20	291253-001
1-	291253-002
5-3	291255

FIGURE ITEM NO.	HOBART PART NO.
19-	291255
4-6	291297
7-13	291298
4-15	291302
6-5	291307
7-12	291307
6-	291311
7-	291311-001
7-	291311-002
7-	291311-003
7-	291311-005
6-22	291329
6-23	291330
11-	291334
4-	291335
1-16	291351
13-4	291379
13-5	291380
13-7	291382
13-6	291383
4-	291386
6-	291393
13-3	291394
13-	291395
12-	291407
12-	291408
12-	291409
12-9	291420
15-4	291458
15-9	291459
15-5	291460
15-2	291466
15-3	291468
14-3	291481
11-	291482
15-7	291508
15-6	291514

FIGURE ITEM NO.	HOBART PART NO.
15-	291516
12-9	291550
19-8	291558
20-7	400435
8-8	400613-004
6-17	400641-015
6-16	400642-008
9-	401911-010
9-10	402025-003
9-6	402034-002
9-	402119-002
1-9	402987
10-10	403782-002
16-4	403782-002
16-2	403809-002
19-6	404044-004
13-	404154-013
11-	405548
1-25	407366
4-	408352
4-	408352
4-	408420-002
4-	408585
4-	408585
1-	408665-001
1-3	408665-001
1-	408665-002
1-4	408665-002
18-	480290
5-	482496-002
12-	486719-005
9-15	488640
4-	489658-002
4-	489658-002
17-7	489658-007
6-7	494134-001
14-	494295

FIGURE ITEM NO.	HOBART PART NO.
16-	76A1131
1-11	76B1148
19-	77A1107
19-	77A1108
19-	77A1109
6-	77A1157
6-10	78A1117-002
16-3	78B1118-002
4-	79B1140
4-	79B1140
9-5	7J422-000
18-10	85B1039
18-11	85C1004-001
9-	A25
20-3	A25
9-	AW626
11-	HF2962
18-6	W10072-068
16-	W10750-001
5-	W10869-003
5-	W10869-005
13-	W10869-006
13-	W10869-006
13-	W10869-006
5-	W10869-014
10-	W10869-014
16-	W10910-000
19-7	W10931-003
9-	W11097-028
9-	W11242-010
9-	W11242-018
9-	W11254-006
9-	W11278-005
16-	W7814-000
10-	W7814-004
6-14	W8105A-009
11-	W9360-289

FIGURE ITEM NO.	HOBART PART NO.
11-3	W9360-381
11-2	W9407-446