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**ITW
GSE**

Illustrated Parts List

ITW GSE 4400

**60-90 kVA, 3 Phase, 115 Volt,
400 Hz Tier 4 Generator Set**



Series no. 500106-500107

**ITW
GSE HOBART**

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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
#	-	Number or Part Number
A, or AMP	-	Ampere
AC	-	Alternating current
AR	-	As required
DC	-	Direct current
DIA	-	Diameter
Deg	-	Degree
Fig	-	Figure
hd.	-	Head
hex	-	Hexagon
Hz	-	Hertz (cycles-per-second)
ID	-	Inside diameter
IN	-	Inch
kVA	-	Kilovolt-ampere
lg	-	Long
uF	-	Microfarad
No Number	-	Not supplied by Hobart
No.	-	Number
NHA	-	Next higher assembly
OD	-	Outside Diameter
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 that does not reflect an index number is an assembly that is not illustrated in its assembled state, or it is similar (right-hand, left-hand, top, etc.) to an item that is illustrated.

3) Hierarchy

Part Number column lists the part number assigned. Sub- and /sub-assemblies are indicated by indenture level (., .., ..., etc.) to the component next higher assembly (NHA). Line items with no part number assigned are listed as Non Applicable (No Number).

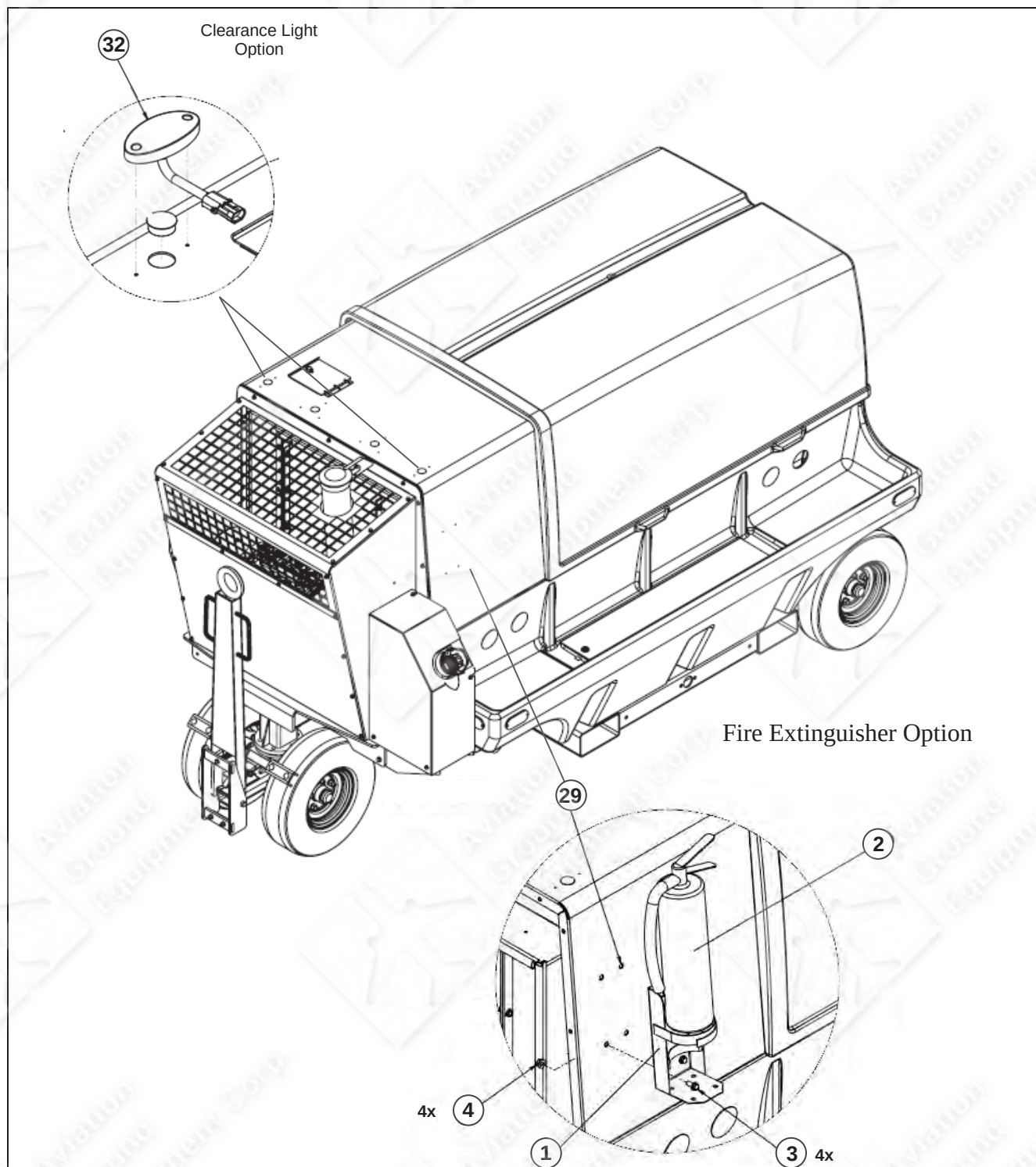


Figure 3-1. 4400-T4, 60-90 kVA, Generator Set (Sheet 1 of 5).

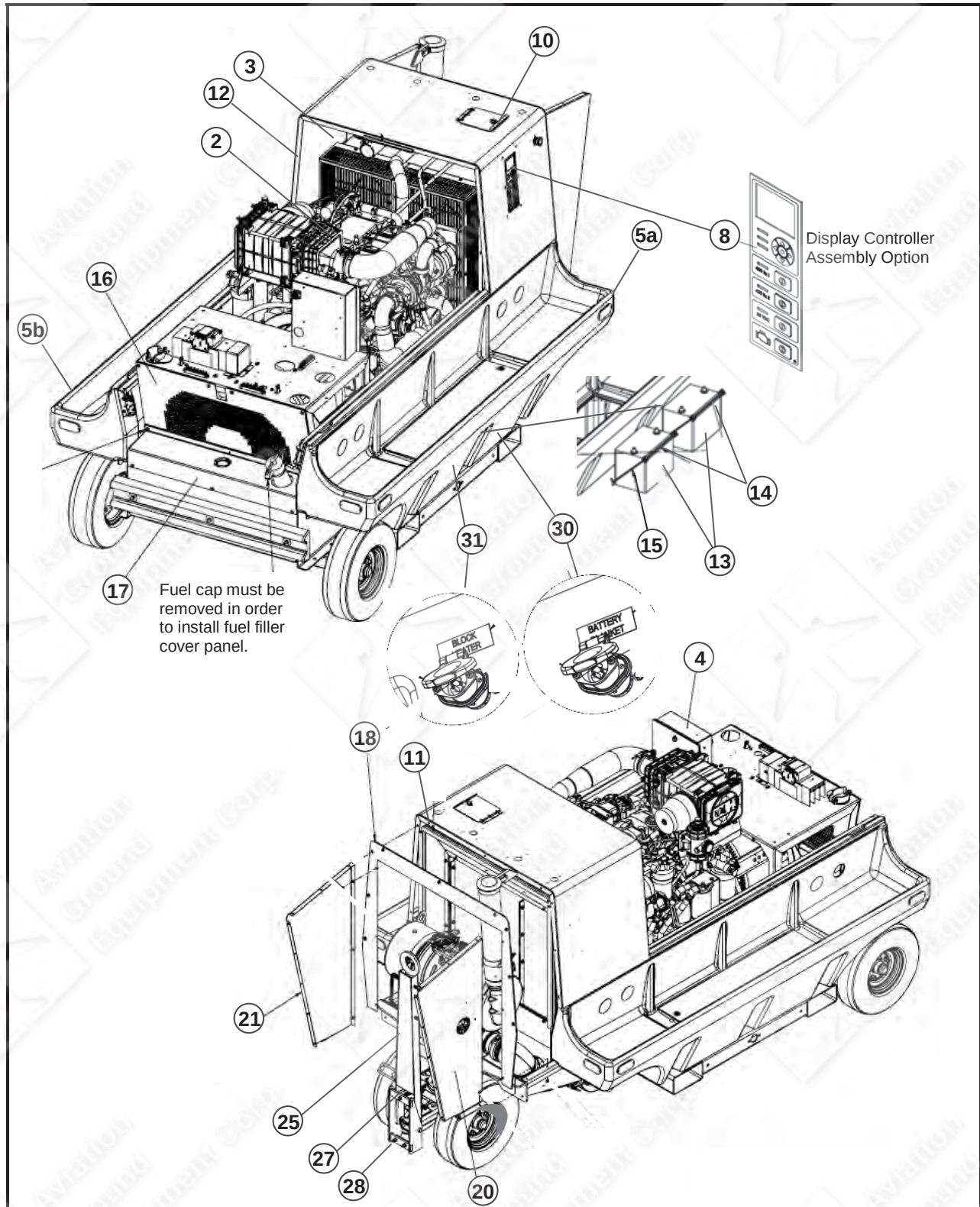


Figure 3-1. 4400-T4, 60-90 kVA, Generator Set (Sheet 2 of 5).

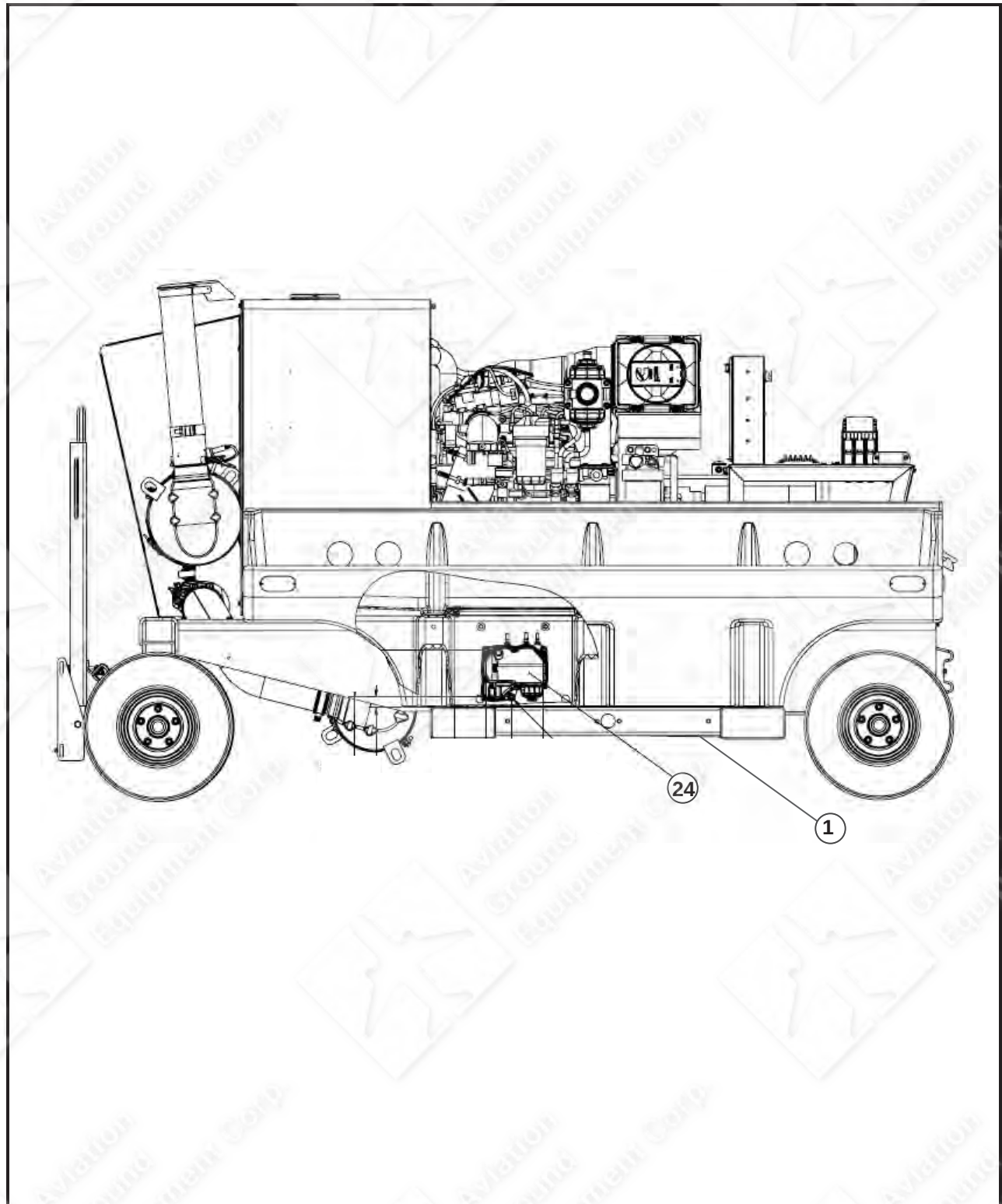


Figure 3-1. 4400-T4, 60-90 kVA, Generator Set (Sheet 3 of 5).

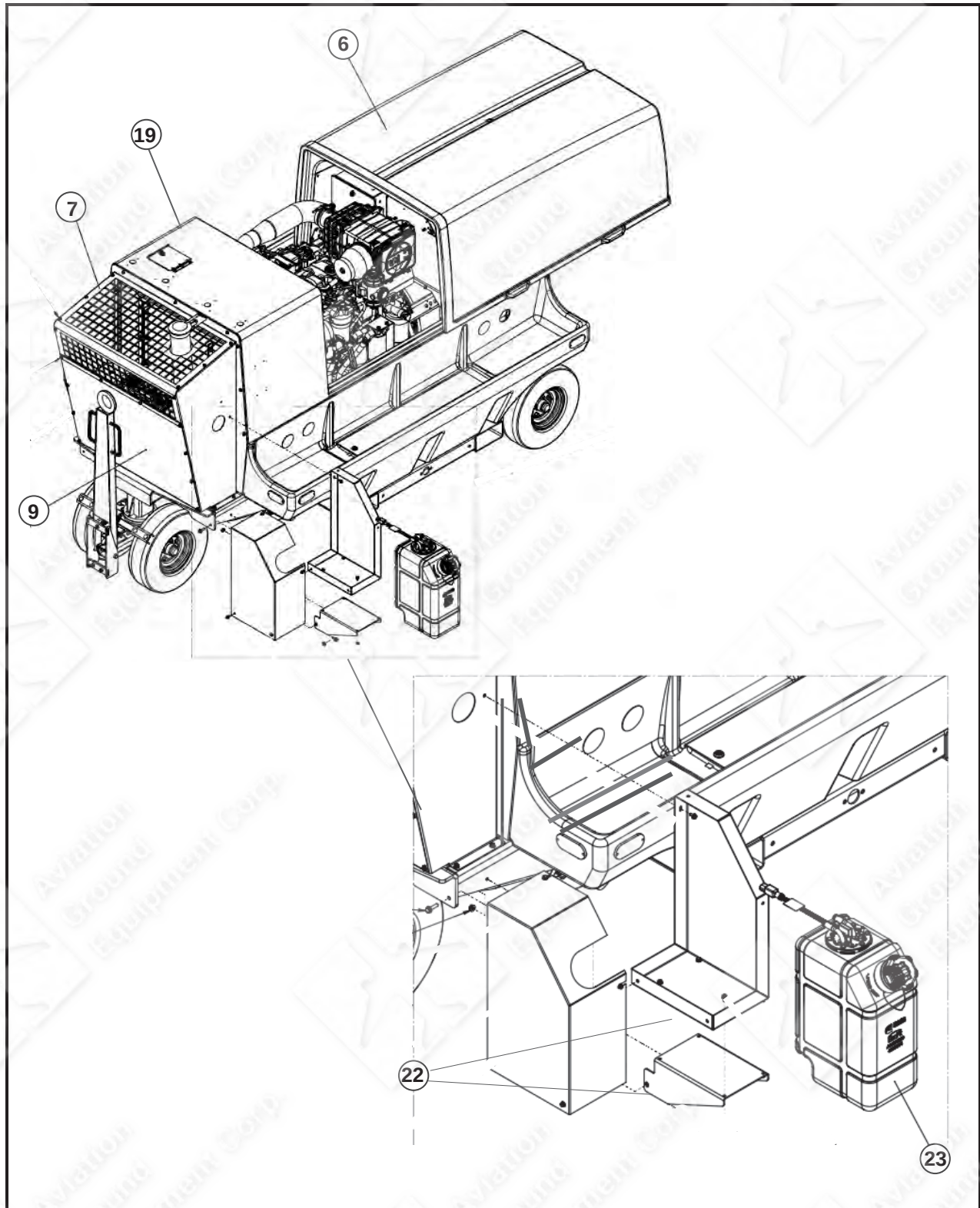


Figure 3-1. 4400-T4, 60-90 kVA, Generator Set (Sheet 4 of 5).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
3-1-	4400-T4	Tier 4 60-90 kVA		REF
3-1- 1	293292	..Trailer Assembly		REF
3-1- 2	293178-XX	..Genset/Fuel Tank Install, 60-90 kVA (See Figure 3-2)		1
3-1- 3	293183	..Radiator/After-Treatment Installation (See Figure 3-5)		1
3-1- 4	293184	..Electrical System Installation (See Figure 3-1)		1
3-1- 5a	293086	..Cable Tray Assy Left Side (See Figure 3-1)		1
3-1- 5b	293087	..Cable Tray Assy RightSide (See Figure 3-1)		1
3-1- 6	293084	..Top Canopy, Composite, Assy (see Figure 3-)		1
3-1- 7	293261	..Panel, Top, Front Canopy		1
3-1- 8	293329	..Display Controller, Output Assembly Option		1
3-1- 8a	*275190	...Option, Membrane Single 400 hz Output		1
3-1- 8b	*275191	...Option, Membrane for Single 400 hz plus 28 VDC Output		1
3-1- 8c	*275192	...Option, Membrane for Dual 400 hz Output		1
3-1- 8d	*275193	...Option, Membrane for Dual 400 hz plus 28 VDC Output		1
3-1- 9	293260	..Panel Front, Front Canopy		1
3-1- 10	288023	..Wing Latch Knob		1
3-1- 11	IN5156	...Bulb Seal, Edge Grip, 3/4"		1
3-1- 12	IN5066	..Closed Cell Sponge W/Adhesive, 1/2" x 1/8"		A/R
3-1- 13	281881-001	..Battery, 12V		2
3-1- 14	293008	...Battery Retainer		2
3-1- 15	494295	...Battery Hold Down, J-Hook		4
3-1- 16	293238	...Panel, Gen. Access		1
3-1- 17	293081	...Panel, Fuel Filler Cover		1
3-1- 18	293167	...Panel, Front, Intermediate		1
3-1- 19	293047	...Front Canopy		1
3-1- 20	293259-01	...Panel, Left Side		1
3-1- 21	293259-02	...Panel, Right Side		1
3-1- 22	293188	...Bracket/Housing DEF Tank		1
3-1- 23	A051Y802	...Tank, DEF		1
3-1- 24	A052B705	...Module Pump, DEF		1
3-1- 25	293224	..Towbar, Running Gear		1
3-1- 26	*293148	..Towbar, Din40 Eye (Optional)		1
3-1- 27	293067	..Braking Pad Assembly		1
3-1- 28	288469-001	..Towbar Leveler Support Kit		1
3-1- 29	293171	..Fire Extinguisher Option		1
3-1- 29-1	293172	...Bracket, Fire Extinguisher, 5 LBS		1
3-1- 29-2	GA11436	...Fire Extinguisher, Class ABC, 5 LBS		1
3-1- 29-3	HGF1020	...M10-1.5 x 20 Lg, Hex Flange Bolt, Gr 10.9		4
3-1- 29-4	286472-004	...M10-1.5, Serrated Nut Hex Flange		4
3-1- 30	293230-XX	Battery Heater Blanket Option		1
3-1- 31	293125-XX	Block Heater Option		1
3-1- 32	293098	Clearance Light Option		1
*Not Illustrated				

Figure 3-1. 4400-T4, 60-90 kVA, Generator Set (Sheet 5 of 5).

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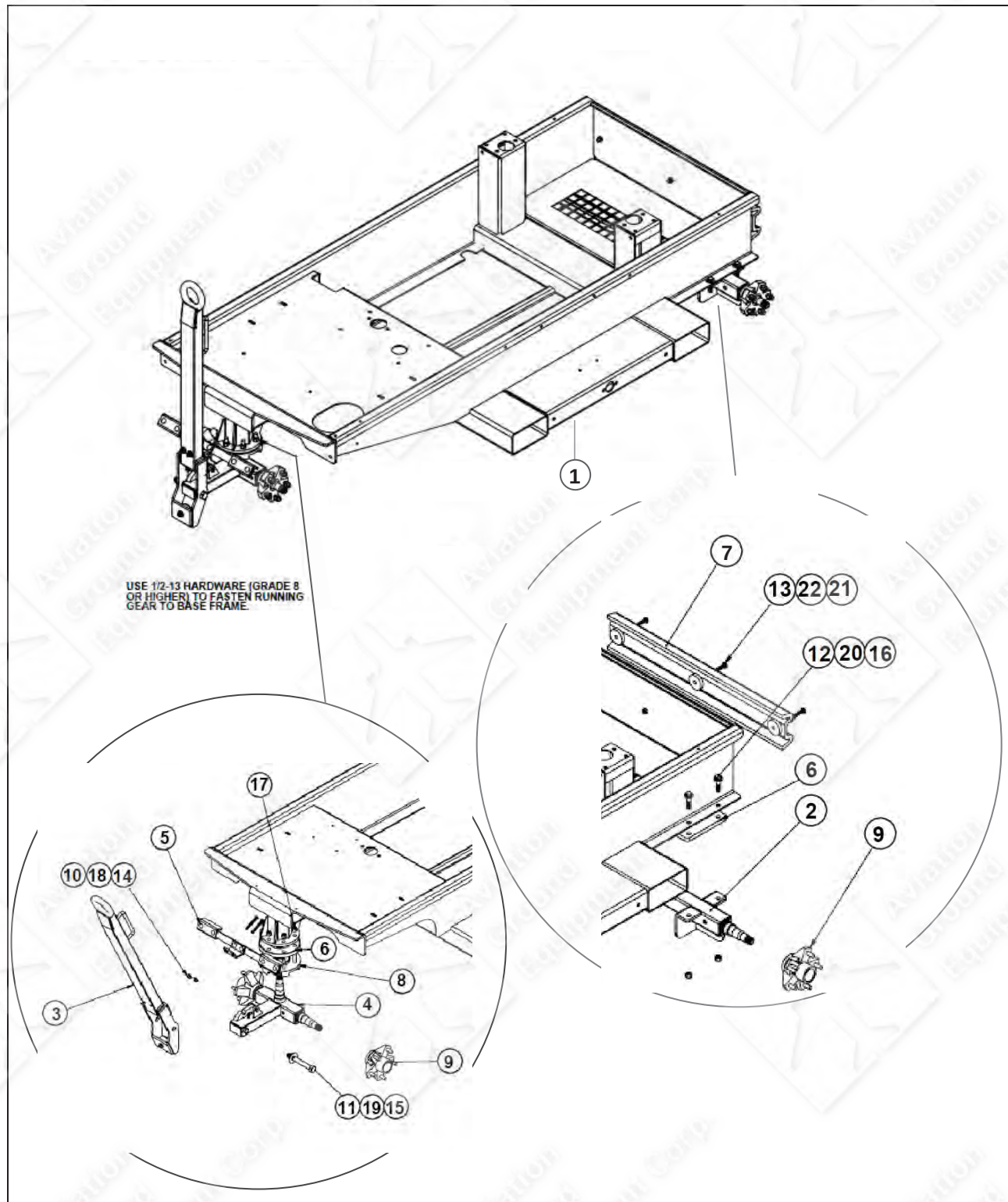


Figure 3-2. Assy, Chassis/Running Gear 60-90 kVA T-4 (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
3-2-	293292	Trailer Assembly 4400-T4		1
	293363	*Running Gear		1
3-2- 1	293162	Base Frame, 4400		1
3-2- 2	293292-02	Rear Axle Assy		1
3-2- 3	293292-03	Towbar Assy		1
3-2- 4	293292-04	Front Axle Assy		1
3-2- 5	293292-05	Parking Brake Assy		1
3-2- 6	293292-06	Running Gear Spacer		1
3-2- 7	293292-07	Rear Rubber Bumper		1
3-2- 8	293292-08	Pivot Hub "5 th Wheel"		1
3-2- 9	293292-09	Wheel Hub "Rolling"		4
3-2- 10	293292-10	Carriage Bolt 3/8" x 3" Zinc		2
3-2- 11	293292-11	Hex Head Bolt 3/4" x 6.00" A-36		1
3-2- 12	293292-12	Hex Head Bolt 1/2" x 2.25" T316		4
3-2- 13	293292-13	Hex Head Bolt, M10 x 40mm A325 Galv.		3
3-2- 14	293292-14	Lock Nut 3/8", Zinc Plated		2
3-2- 15	293292-15	Lock Nut 3/4", Zinc Plated		1
3-2- 16	293292-16	Lock Nut 1/2-13, Zinc Plated		4
	17	293292-17	Lock Nut 1/2-20, Zinc Plated	6
	18	293292-18	Washer, Flat, 3/8" Zinc Plated	2
	19	293292-19	Washer, Flat, 3/4" Zinc Plated	1
	20	293292-20	Washer, Flat, 1/2" Zinc Plated	4
	21	293292-21	Washer, Flat, M10	3
	22	293292-22	Washer, Lock, M10	3
	*Item not illustrated			

Figure 3-2. Assy, Chassis/Running Gear 60-90 kVA T-4 (Sheet 1 of 2).

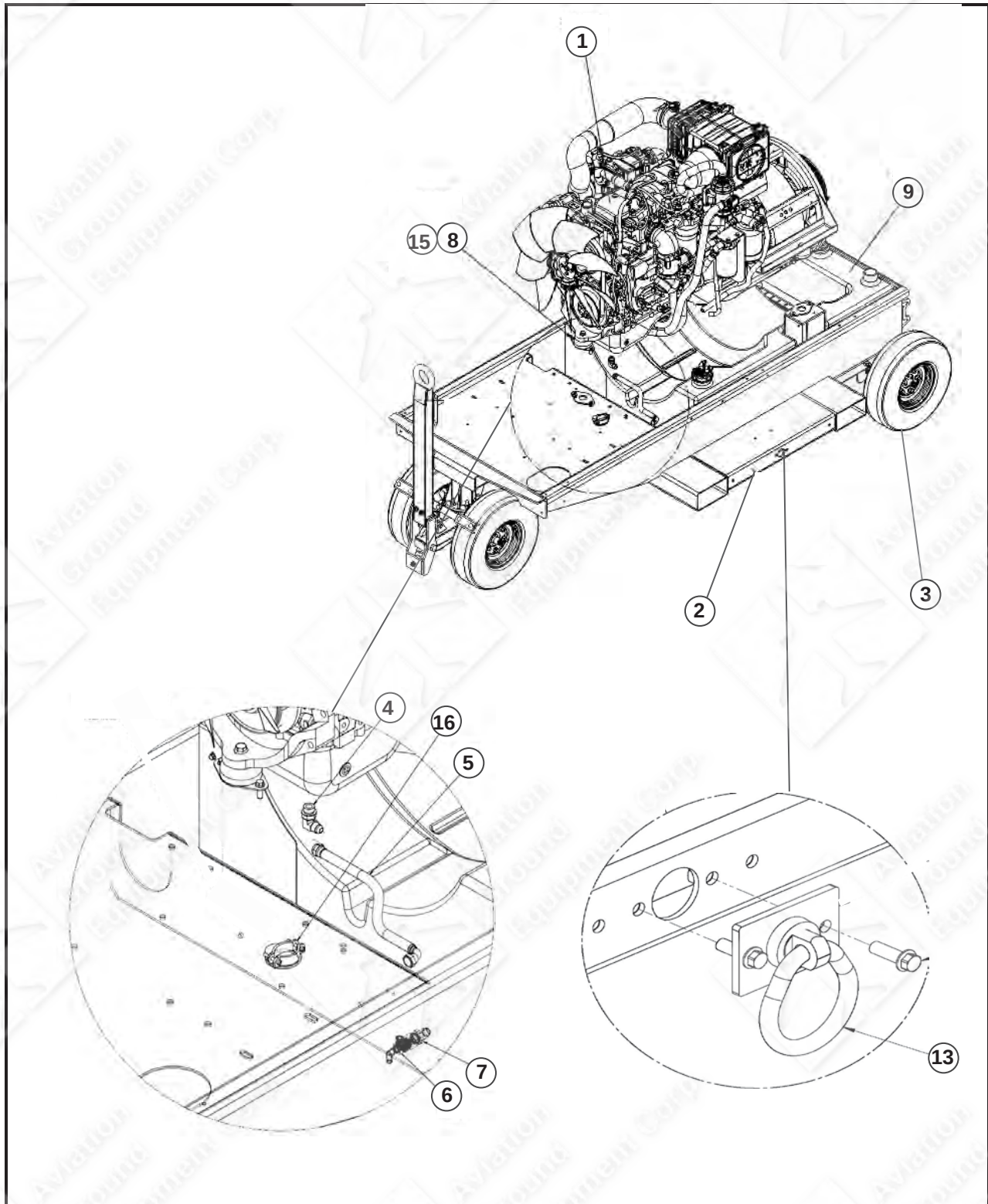


Figure 3-3. Genset/Fuel Tank Installation, 60-90 kVA (Sheet 1 of 3).

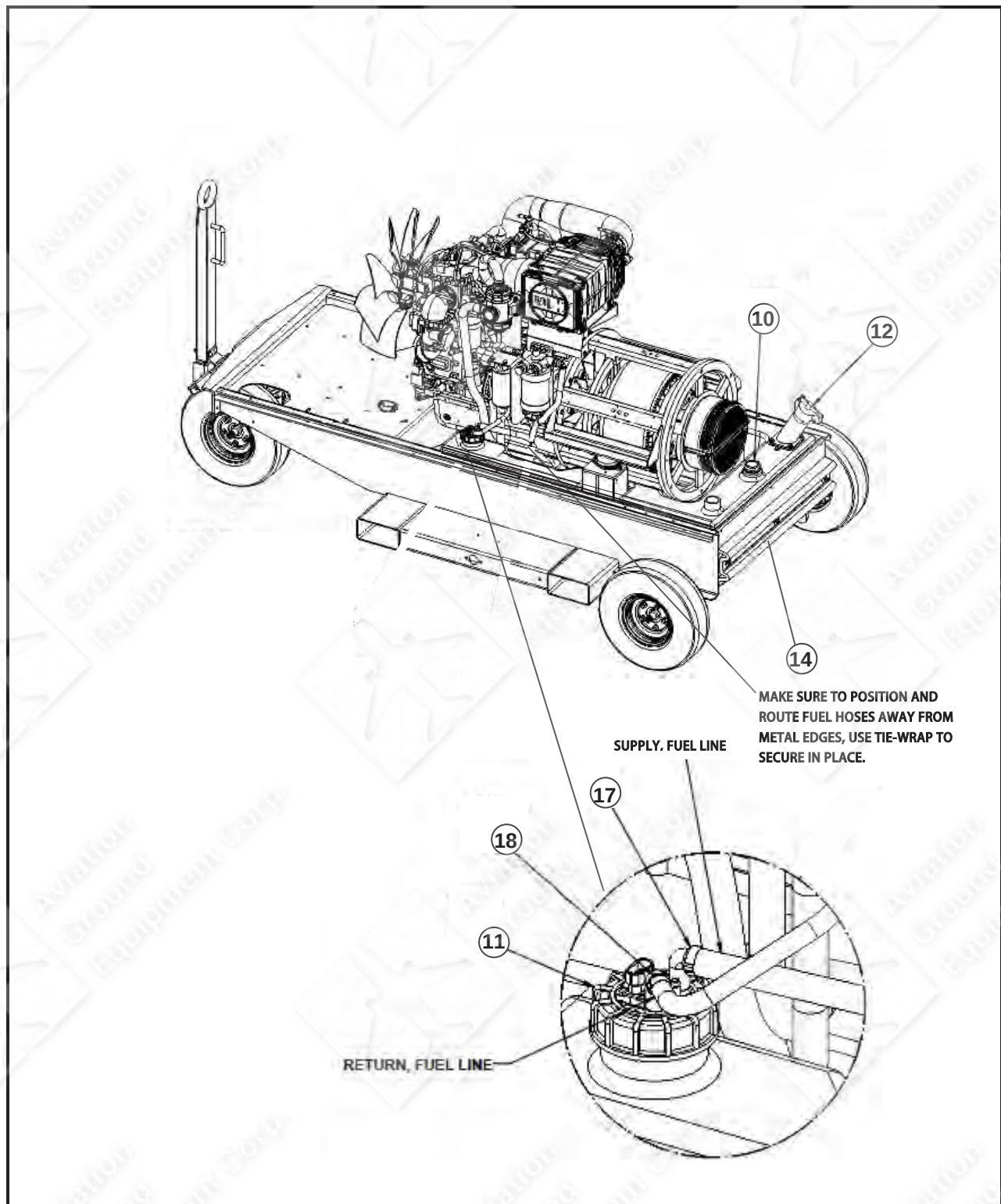


Figure 3-3. Genset/Fuel Tank Installation, 60-90 kVA (Sheet 2 of 3).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
3-3-	293177-XX	T4-Genset/Fuel Tank Installation, 60/90kVA		REF
3-3- 1a	*293178-01	Genset Assembly, 60 kVA (See Figure 3-3)		
3-3- 1b	*293178-02	Genset Assembly, 90kVA (See Figure 3-3)		
3-3- 2	293292	..Trailer Assembly		REF
3-3- 3	293182	..Tire, Super Grip GSE 500/570-8 ply Tubeless 18.5 OD		4
3-3- 4	FI11399	..Elbow, 90 De. W/O-Ring, ¾-16 X M22X1.5 Male		1
3-3- 5	293080	..Oil Drain Hose Assembly		1
3-3- 6	VA11479	.. Valve, Oil Drain		1
3-3- 7	TS11478	.. Adapter, SAE 37 DEG. Male Flare Bulkhead		1
3-3- 8	HGF1030	...Hex Flg Bolt, M10-1.5 x 30 LG, GR10.9		6
3-3- 9	293091	..Fuel Tank Composite Assembly, (See Figure 3-4)		1
3-3- 10	IL11359	...Mechanical Fuel Gauge		1
3-3- 11	293335	..Fuel Sender with Coupling Cap		1
3-3- 12	EB11439	...Protectoseal, Fuel Cap Green		1
3-3- 13	293192	Tie-Down Ring Option		1
3-3- 14	TA11449	. .Bumper Guard, Heavy Duty Rubber		1
3-3- 15	286472-004	...M10-1.5, Serrated Nut Hex Flange		6
3-3- 16	CO5040	...Connector, Clamp 2"		1
3-3- 17	EC11611	...Clamp, One-Ear Stepless, 0.76 – 0.89 OD Grip		1
3-3- 18	EC11613	...Clamp, One-Ear Stepless, 0.52 – 0.62 OD Grip		1
*Item not illustrated				

Figure 3-3. Genset/Fuel Tank Installation, 60-90 kVA (Sheet 3 of 3).

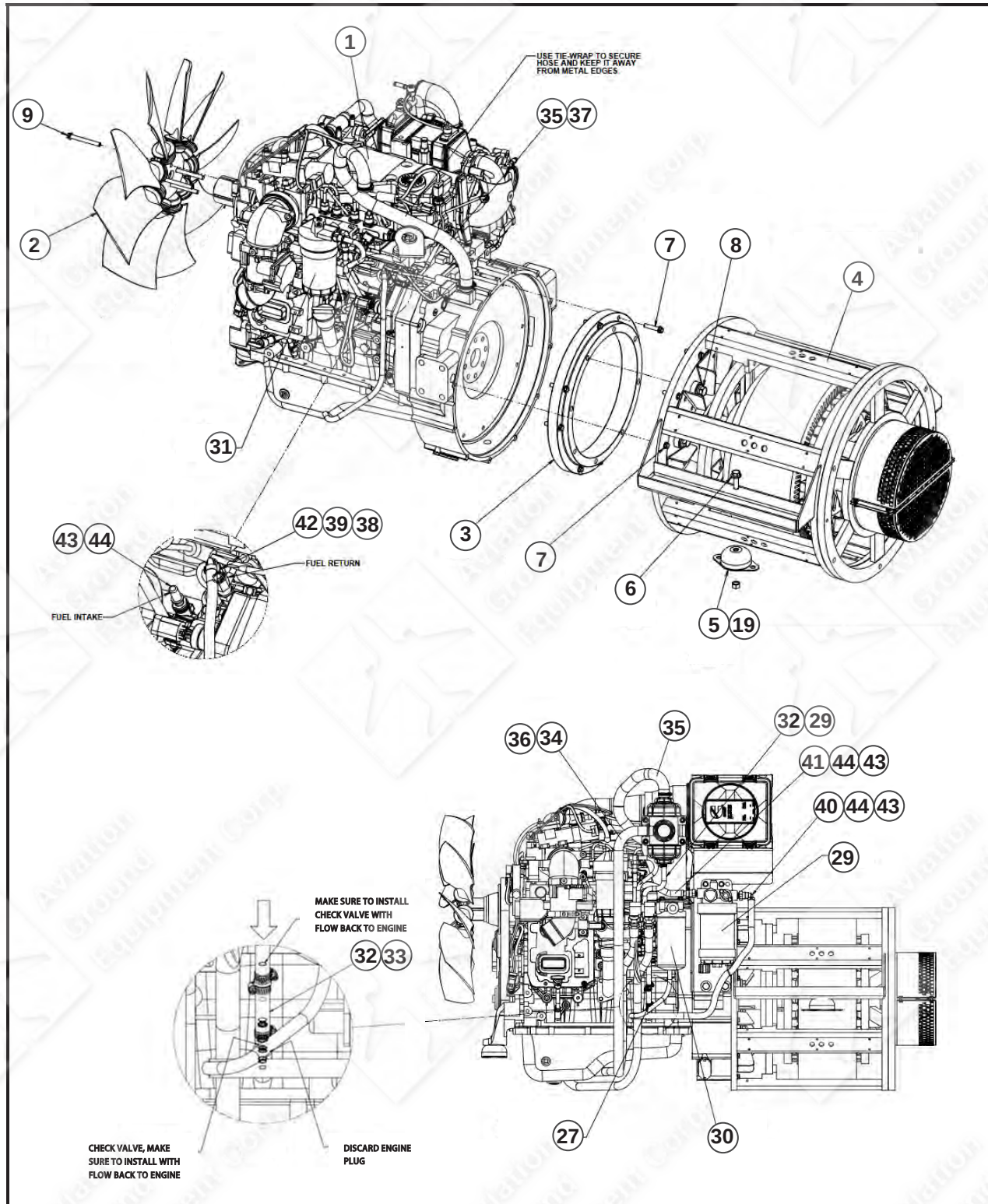


Figure 3-4. T4 Genset Assembly, 60-90 kVA (Sheet 1 of 4).

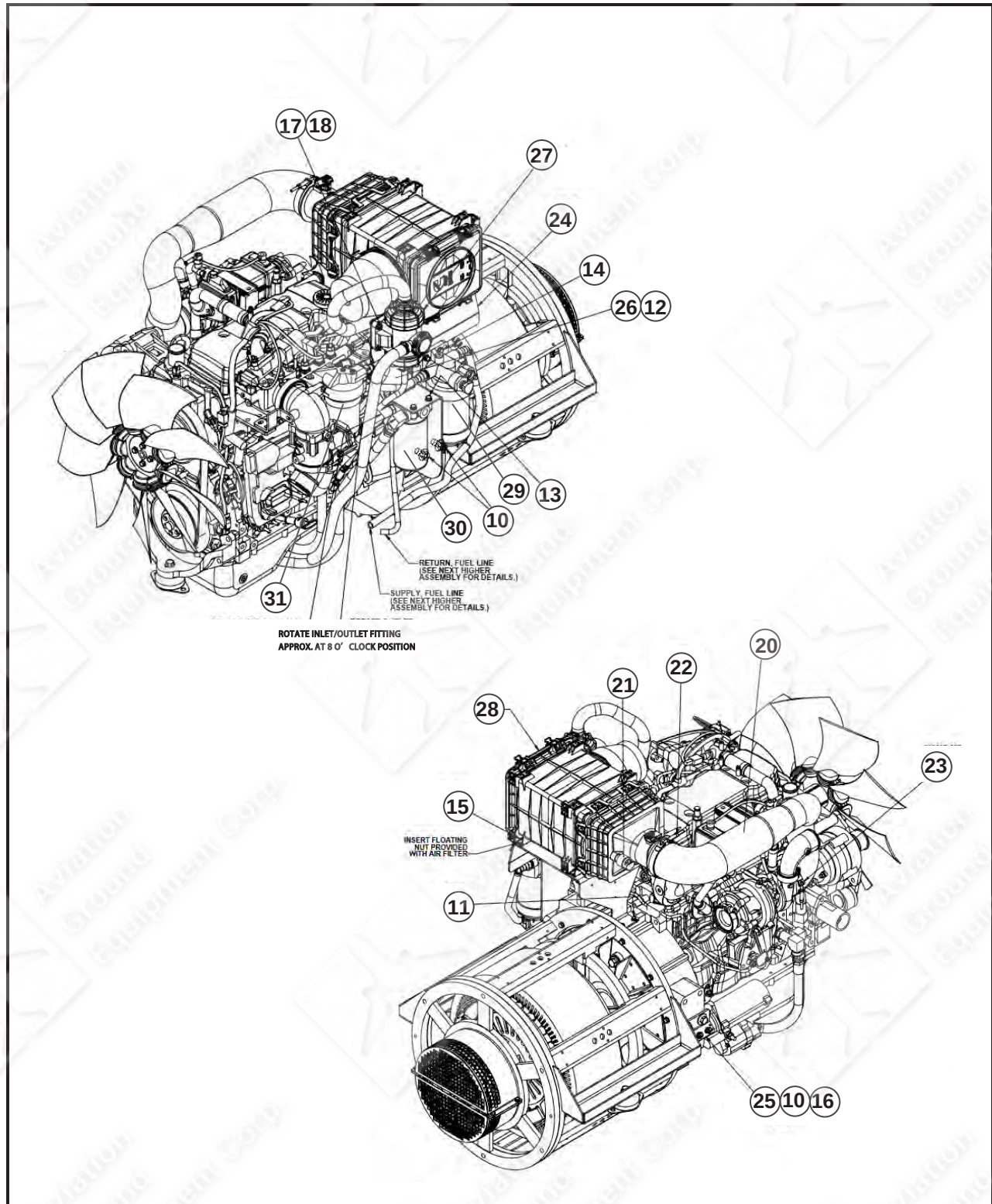


Figure 3-4. T4 Genset Assembly, 60-90 kVA (Sheet 2 of 4).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
3-4-	293178-XX	T4 Genset Assembly 60- 90 kVA		Ref.
3-4- 1A	293282	Engine, Cummins 90kVA QSB4.5 Tier 4		1
3-4- 1B	TBD	Engine, Cummins QSB4.5 Tier 4, 60kVA		1
3-4- 2	FB11360	..Radiator Fan		1
3-4- 3	293004	..Flywheel Spacer Ring		1
3-4- 4	288460-004	..Generator Assembly, 2000 RPM		1
3-4- 5	VM11349	..Engine/Generator Mount		3
3-4- 6	HGKF150	... Hex Flg Bolt, 1/2-13 x 1.50 lg, GR8		3
3-4- 7	HGF1045	...M10-1.5 x 45 Long, Hex Flange Bolt, GR10.9		20
3-4- 8	HGRF300	... Hex Flg Bolt, 5/8-11 x 3 lg, Zinc GR8		8
3-4- 9	HGF1090	... Hex Flg Bolt, M10-1.5 x 90 lg, GR10.9		4
3-4- 10	HGF1625	... Hex Flg Bolt, M16-2 x 25 lg, GR8		4
3-4- 11	HGF0612	...Hex Flg Bolt, M6-1 x 12 LG, GR10.9		2
3-4- 12	HGF0820	... Hex Flg Bolt, M8-1.25 x 20 LG, GR10.9		2
3-4- 13	HGF0812	... Hex Flg Bolt, M8-1.25 x 12 LG, GR10.9		2
3-4- 14	HGF1030	... Hex Flg Bolt, M10-1.5 x 30 LG, GR10.9		2
3-4- 15	HGF0620	... Hex Flg Bolt, M6-1 x 20 LG, FLG BOLT GR10.9		4
3-4- 16	HR11474	... Serr Flg Nut, 3/8-16, SS		3
3-4- 17	HGF0830	... Hex Flg Bolt, M8-1.25 x 30 LG, GR10.9		4
3-4- 18	286473-004	...Hex Flg Nut, M8-1.25, GR10.9		4
3-4- 19	HRKBA1	...1/2-13 Hex Nut		3
3-4- 20	293217	..Tube Air Intake, Rubber		1
3-4- 21	282918	..Indic-ator, Restrictor, Elec.		1
3-4- 22	290597-006	...Clamp, T-Bolt, 4.50 Dia		1
3-4- 23	290597-007	...Clamp, T-Bolt, 3.50 Dia		1
3-4- 24	293179	...Bracket, Oil / Fuel / Air Filter		1
3-4- 25	293191	...Grounding Plate		1
3-4- 26	293229	...Bracket, Crankcase Breather		1
3-4- 27	EC11501	...Breather, Crankcase, Kit		1
3-4- 28	EC11498	...Air Cleaner, Direct Flow		1
3-4- 29	EC11503	...Fuel Separator Assembly		1
3-4- 30	EC11504	... Oil Filter Assembly		1
3-4- 31	EC11502	...Fuel Filter Assembly		1
3-4- 32	056535	...Hose, 3/8 ID x 5/8 OD		As Req
3-4- 33	W10869-014	Clamp, Hose, Grip 7/32 – 5/8		4

Figure 3-4. T4 Genset Assembly, 60-90 kVA (Sheet 3 of 4).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
3-4- 34	FM5059	...Heater Hose, 1" x 4 ft		1
3-4- 35	CY11609	...Hose, High-Vac,Rubber Duct, 1" IDx1-3/8"ODx3 FT		1
3-4- 36	W10869-001	...Clamp, Hose Grip, 11/16 – 1-1/4		1
3-4- 37	W10869002	...Clamp, Hose Grip, 13/16 – 1-3/4		2
3-4- 38	EC11378	...Washer, Sealing		1
3-4- 39	EC11379	...Connector, Quick Disconnect		1
3-4- 40	293342-01	...Fuel Hose Assembly, Supply, QSB4.5-T4		1
3-4- 41	293342-02	...Fuel Hose Assembly, Intake, QSB4.5-T4		1
3-4- 42	293343	...Fuel Hose Assembly, Return, 5/16 ID		1
3-4- 43	TBD	...Washer, Sealing 14mm (3963988)		3
3-4- 44	TBD	...Fitting, M14x1.5, 12mm Quick Disconnect		3

Figure 3-4. T4 Genset Assembly, 60-90 kVA (Sheet 4 of 4).

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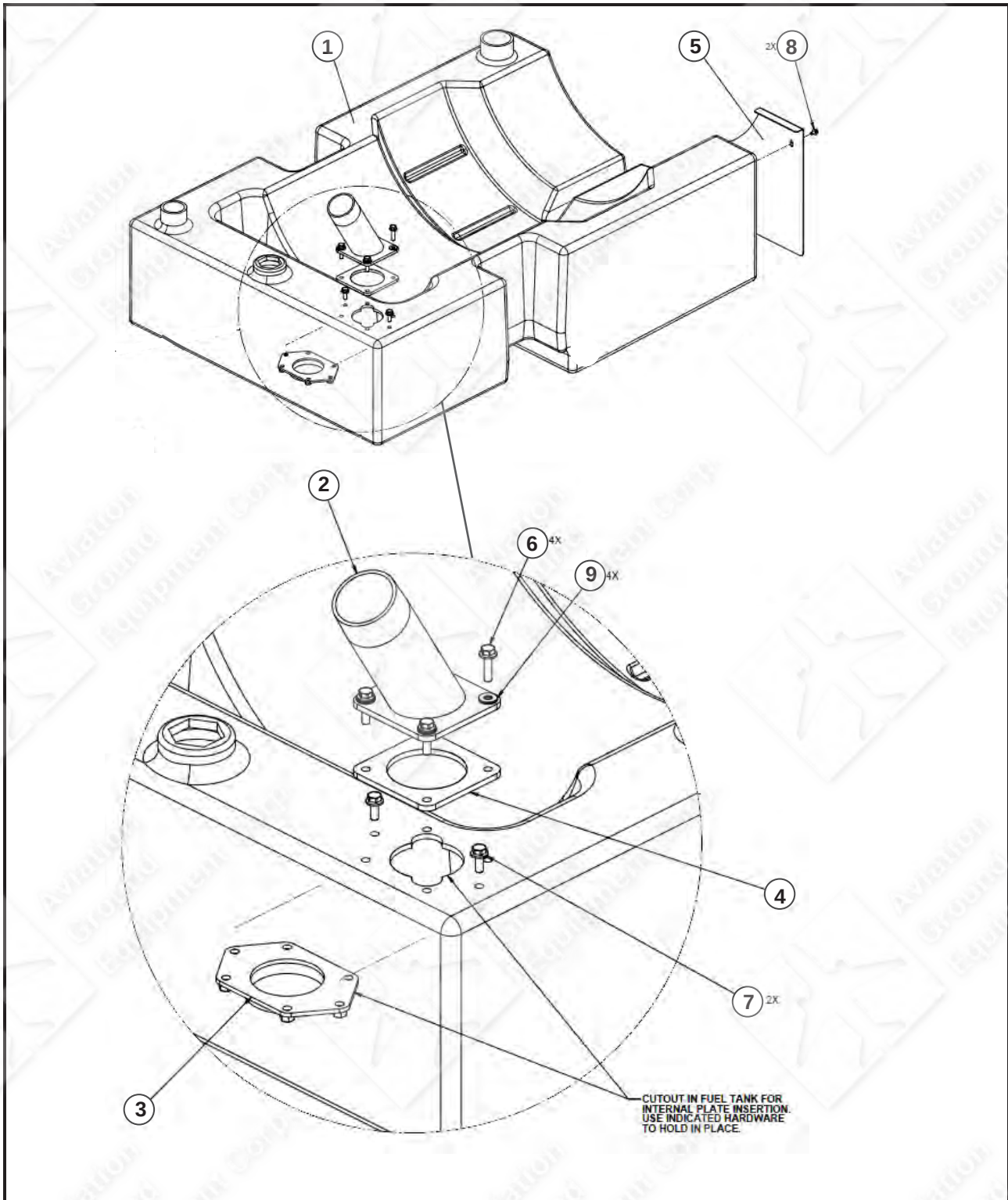


Figure 3-5. Fuel Tank Composite Assembly, 60-90 kVA (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
3-5-	293091	Fuel Tank Assembly Composite, Common Platform 4400		REF
3-5- 1	293090	.Fuel Tank, Machining, Composite CP		1
3-5- 2	293094	..Fuel Filler Neck, 2-1/2" NPT, Weldment		1
3-5- 3	293092	..Plate, Fuel Neck, Internal		1
3-5- 4	293093	...Gasket, Fuel Neck		1
3-5- 5	293108	...Heat Shield, Fuel Tank		1
3-5- 6	HGF0830	... Hex Flg Bolt, M8-1.25 x 30 LG, GR10.9		4
3-5- 7	HGF0820	...Hex Flg Bolt, M8-1.25 x 20 LG, GR10.9		2
3-5- 8	HGF0610	...Hex Flg Bolt, M6-1 x 10 LG, GR10.9		2
3-5- 9	282182-005	...Washer, Sealing, 5/16", 18-8 SS/Neoprene		4

Figure 3-5. Fuel Tank Composite Assembly, 60-90 kVA (Sheet 2 of 2).

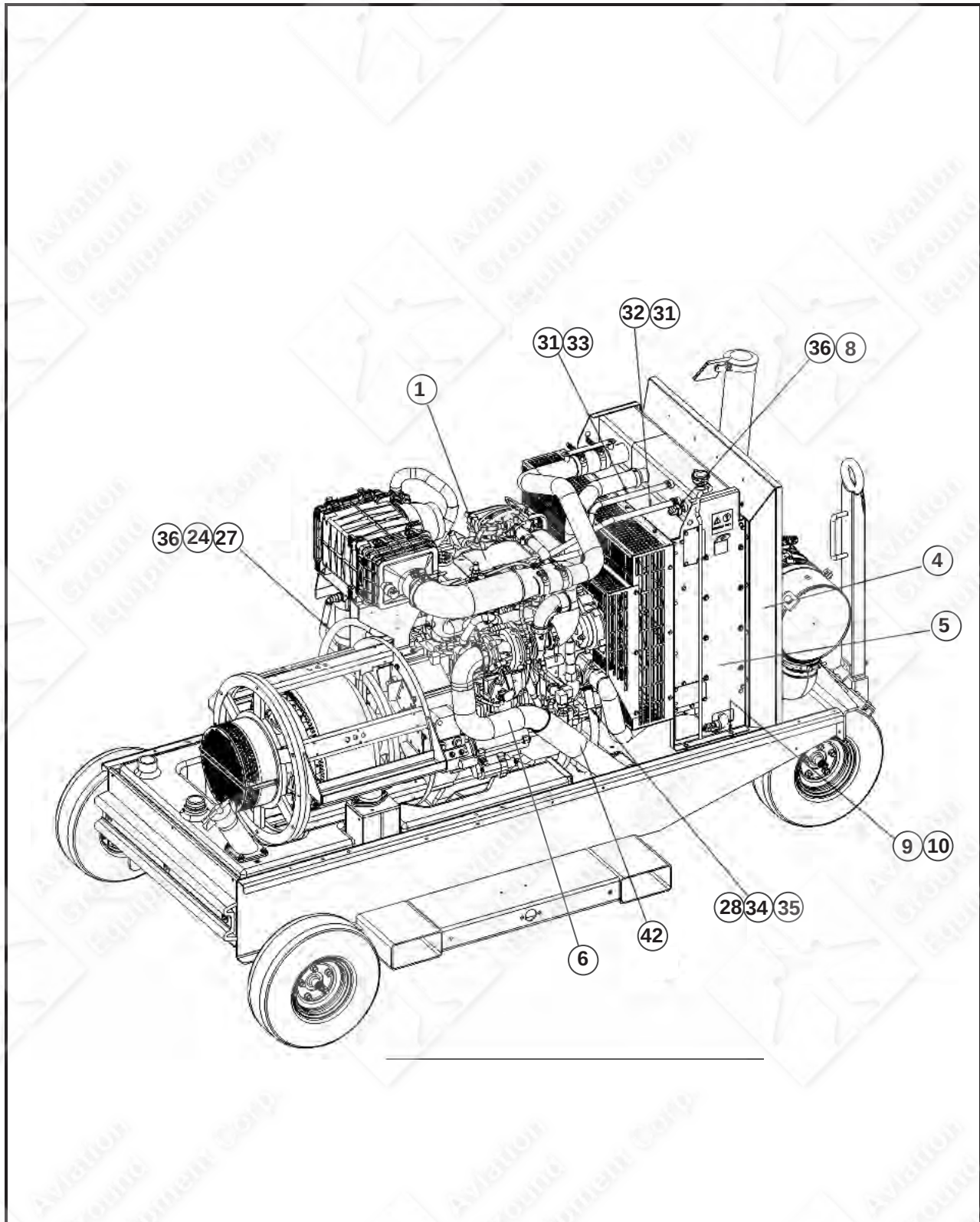


Figure 3-6. Radiator/After-Treatment Installation, 60-90 kVA (Sheet 1 of 4).

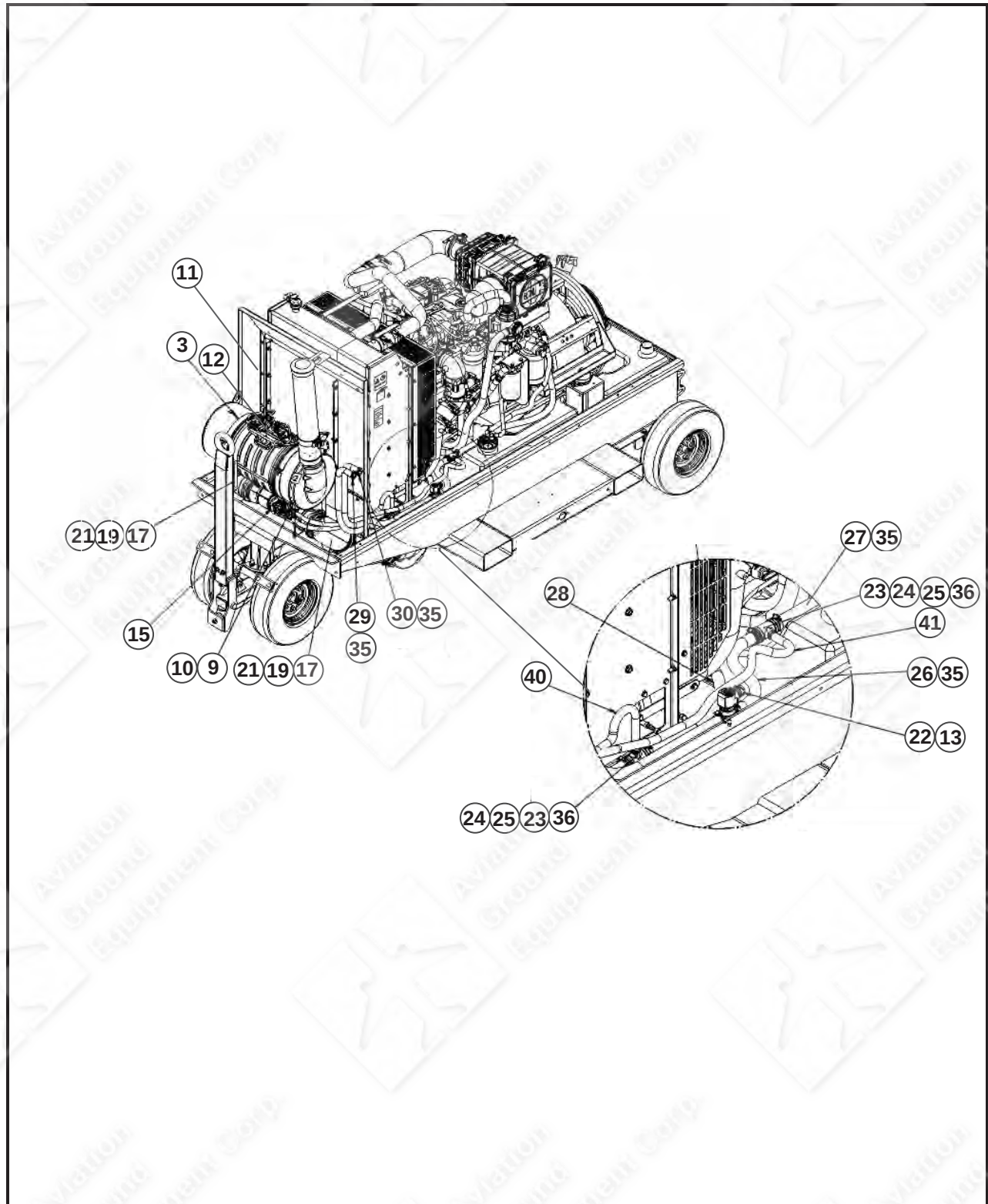


Figure 3-6. Radiator/After-Treatment Installation, 60-90 kVA (Sheet 2 of 4).

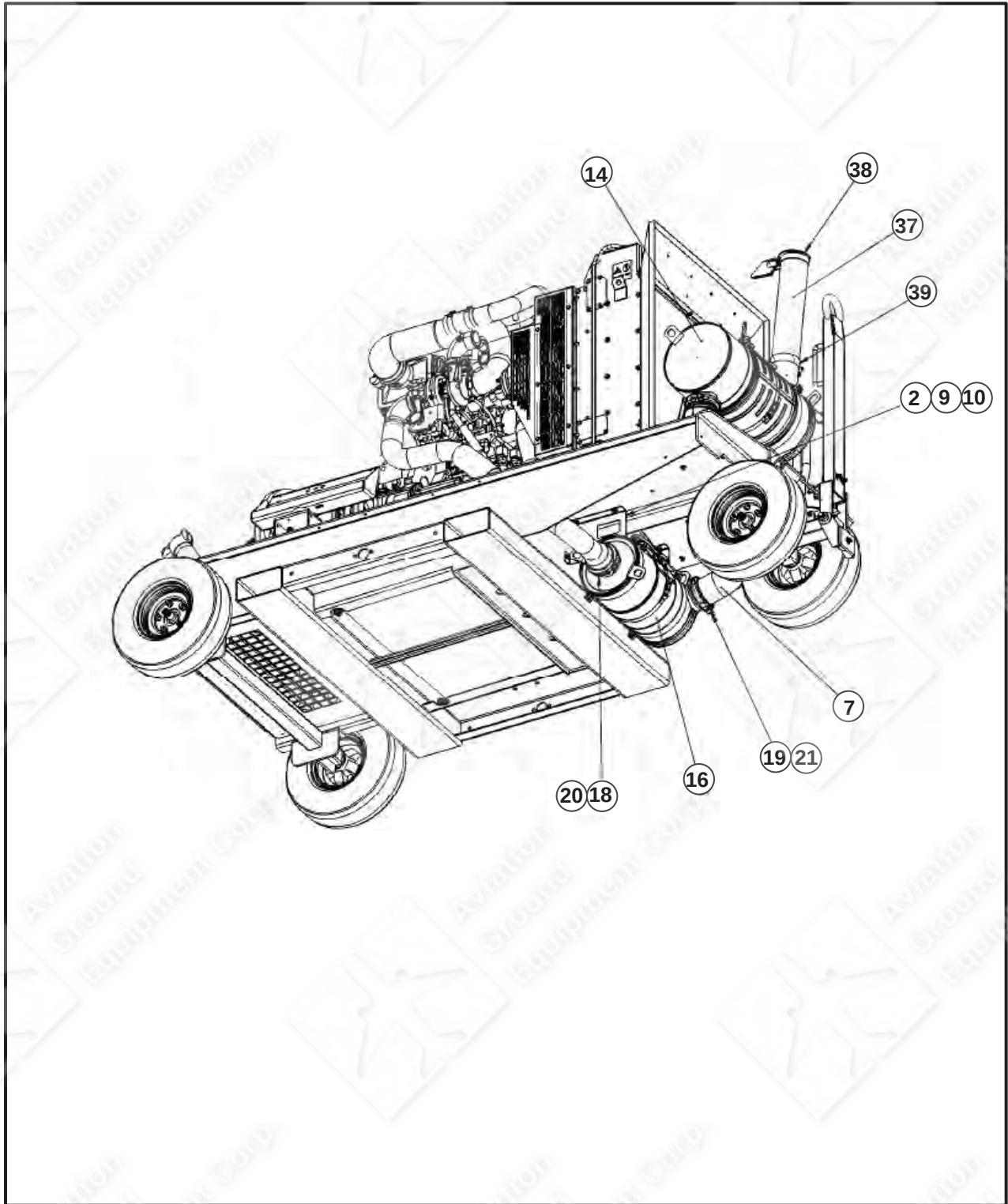


Figure 3-6. Radiator/After-Treatment Installation, 60-90 kVA (Sheet 3 of 4).

FIGURE - ITEM NO.	ITW GSE NO.	PART	NOMENCLATURE	E F F.	QTY.
3-6-		293183	Radiator/Exhaust Installation, 4400		REF
3-6-	1A	293177-01	Genset/Fuel Tank Installation, 60 kVA		REF
3-6-	1B	293177-02	Genset/Fuel Tank Installation, 90 kVA		REF
3-6-	2	293139	..DOC Bracket, T4		2
3-6-	3	293187	..Bracket, SCR, T4		1
3-6-	4	293189	...Shroud, Radiator Exhaust, T4		1
3-6-	5	293277	..Radiator, T4		1
3-6-	6	293294	..3" Exhaust Pipe		1
3-6-	7	293297	.. Elbow 30 Dg, Spherical Marmon MF		1
3-6-	8	AA6380	..Sensor, Coolant Level, 3 Pin		1
3-6-	9	HDW	...M10-1.5 x 20 Lg. Hex Flg Bolt, Gr10.9		14
3-6-	10	HDW	...M10-1.5, Serrated Nut Hex Flg		14
3-6-	11	HDW	...M6-1 x 12 Lg, Hex Flg Bolt, Gr10.9		14
3-6-	12	HDW	...Spacer, Hex, M/F		2
3-6-	13	HDW	...M5-0.8 x 12mm, PH Flat HD		2
3-6-	14	EC11494	...SCR Device, Ater-Treatment		1
3-6-	15	EC11495	...DRT Decomposition Reactor Tube		1
3-6-	16	293377	...DOC, Diesel Oxidation Catalyst		1
3-6-	17	EC11489	... ELBOW, 90 dg, 4" SINGLE BEND		2
3-6-	18	EC11490	...Clamp, V Band DOC Inlet		1
3-6-	19	EC11491	... Clamp, DOC Outlet, DRT/SCR I/O		5
3-6-	20	EC11492	...Gasket, DOC Inlet		1
3-6-	21	EC11493	...Gasket DOC Outlet,DRT/SCR I/O		5
3-6-	22	EC11497	...Valve, DEF Coolant		1
3-6-	23	TS11511	...Tee, Inline, Reducing, 3/4 NPT x 1/4 NPT		2
3-6-	24	TS11513	...Hose Barb, 5/8 Dia x 3/4 NPTM x 5/8 Dia		5
3-6-	25	288187	...Barb, Hose,1/4-18 NPT x 3/8 Dia		3
3-6-	26	HDW	...Coolant Hose, 5/8 ID x 1" OD		A/R
3-6-	31	W10869-014	...Clamp, Hose, Grip 7/32 - 5/8		4
3-6-	32	HDW	...Hose, L/P.Lube Oil, 3/8 ID x 11/16 OD, Sil.Rubber		A/R
3-6-	34	FI5978	...Barb, Hose,1/2" NPTM x 5/8" Dia		1
3-6-	35	W10869-002	...Clamp, Hose, Grip 13/16 – 1-3/4		10
3-6-	36	HDW	...Sealant, Thread, Loctite 565		A/R
3-6-	37	293264	..4" Exhaust Pipe, 4400-T4		1
3-6-	38	EB5243	..Rain Cap, 4"		1
3-6-	39	CY5124	...Clamp, Wide Band Exhaust Pipe		1
3-6-	41	293309-01	...Coolant Hose, 3/8 ID x 3 Ft Long		A/R
3-6-	42	293309-02	...Coolant Hose, 3/8 ID x 5 Ft Long		A/R
3-6-	43	IN11366	..Thermo Jacket		1

Figure 3-6. Radiator/After-Treatment Installation, 60-90 kVA (Sheet 4 of 4).

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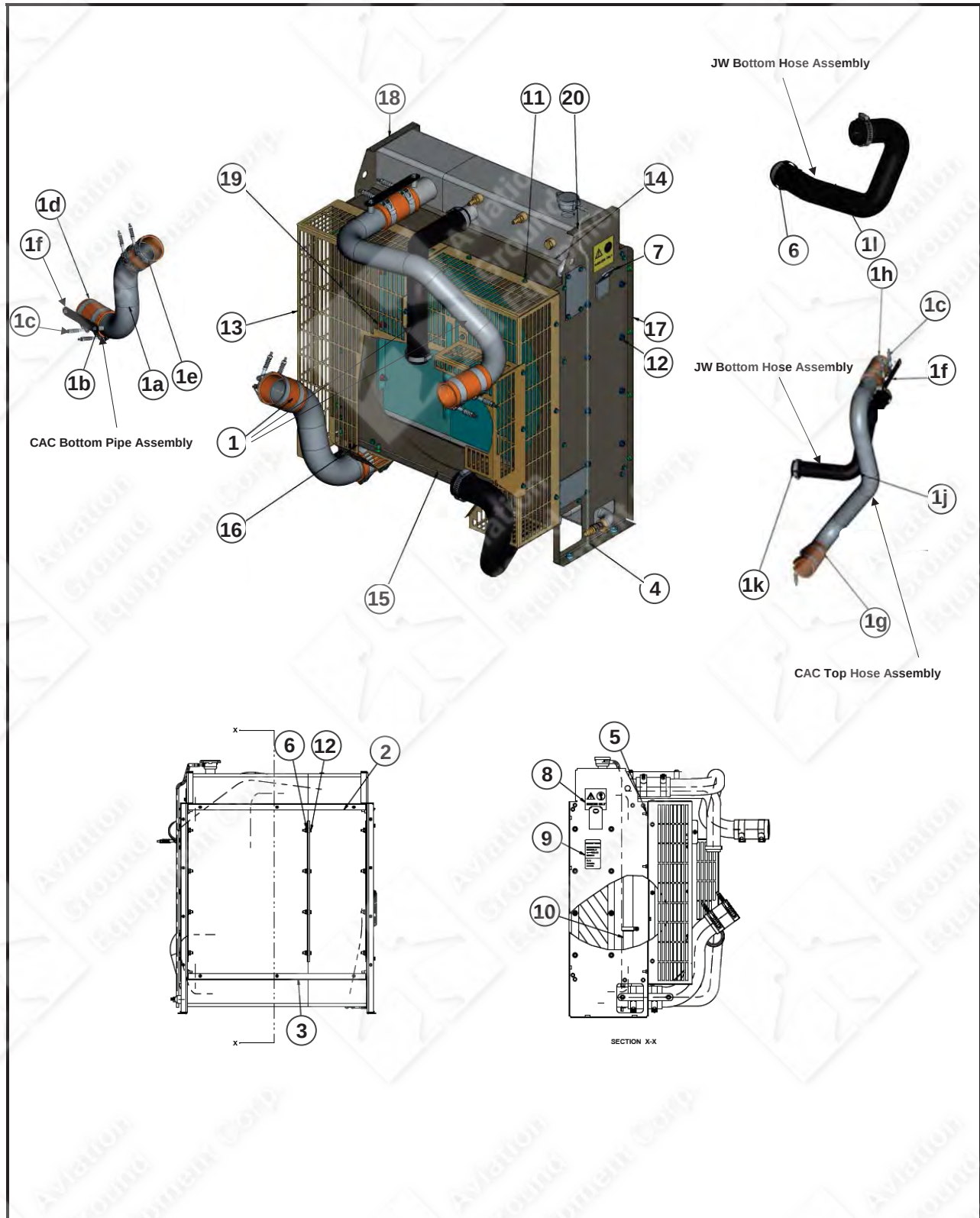


Figure 3-7. Coolpack, Radiator Assy 60-90 kVA (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
3-7-	293277	Coolpack, Radiator Assy		REF
3-7- 1	803001185	..Assy, Complete Pipework Kit – JW + CAC		1
3-7- 1a	890001152	..CAC, Bottom Pipe		1
3-7- 1b	849001017	...84mm Spring Loaded T-Bolt CAC Bottom Pipe Assy		4
3-7- 1c	849001021	...71mm Spring Loaded T-Bolt CAC Bottom Pipe Assy		4
3-7- 1d	851001002	...Silicone Connector, 086mm, x 86mm x 5mm 4 Ply		1
3-7- 1e	851001007	...Silicone Connector, 076mm x 100mm x 5mm 4 Ply		1
3-7- 1f	877001009	...Plate, Restraint, 6.8"		2
3-7- 1g	890001153	..CAC Top Pipe		1
3-7- 1h	851001042	...Silicone Connector, 063.5mm x 130mm, 5mm 4 Ply		2
3-7- 1i	876001011	...Clip, Jubilee, 50mm-70mm		2
3-7- 1j	888001169	..JW Top Hose		1
3-7- 1k	888001170	..JW Bottom Hose		1
3-7- 2	835001210	..Assy, Top Anti-Recirculation Bracket		1
3-7- 3	835001212	..Assy, Bottom Anti-Recirculation Bracket		1
3-7- 4	857021081	...Overflow Hose		1
3-7- 5	859001005	...M6 Serrated Flange Nut		10
3-7- 6	859001006	...M8 Serrated Flange Nut		24
3-7- 7	860001022	..Standard Lifting Eye (Small)		2
3-7- 8	862001004	...Label, Lifting, "Radiator Only" – 80mm x 80mm		2
3-7- 9	862001005	...Label, Logo and Serial Number		1
3-7- 10	869001150	..Assy, Fill Line		1
3-7- 11	879001004	...M6-1 x 25mm Hex Serrated Flanged Bolt		45
3-7- 12	879001013	... M8-1.25 x 25mm Hex Serrated Flanged Bolt		24
3-7- 13	896001380	..Assy, Complete Fan Guard		1
3-7- 14	897001468	..Assy, Top Cowl Section		1
3-7- 15	897001470	..Assy, Bottom Cowl Section		1
3-7- 16	899001342	..Assy, Fan Cowl		1
3-7- 17	900001701	..Assy, RHS Side-Member		1
3-7- 18	900001702	.. Assy, LHS Side-Member		1
3-7- 19	911001115	..Assy, CAC Slab – Plate & Bar		1
3-7- 20	912001234	..Assy, JW Slab – Plate & Bar		1

Figure 3-7. Coolpack, Radiator Assy 60-90 kVA (Sheet 2 of 2).

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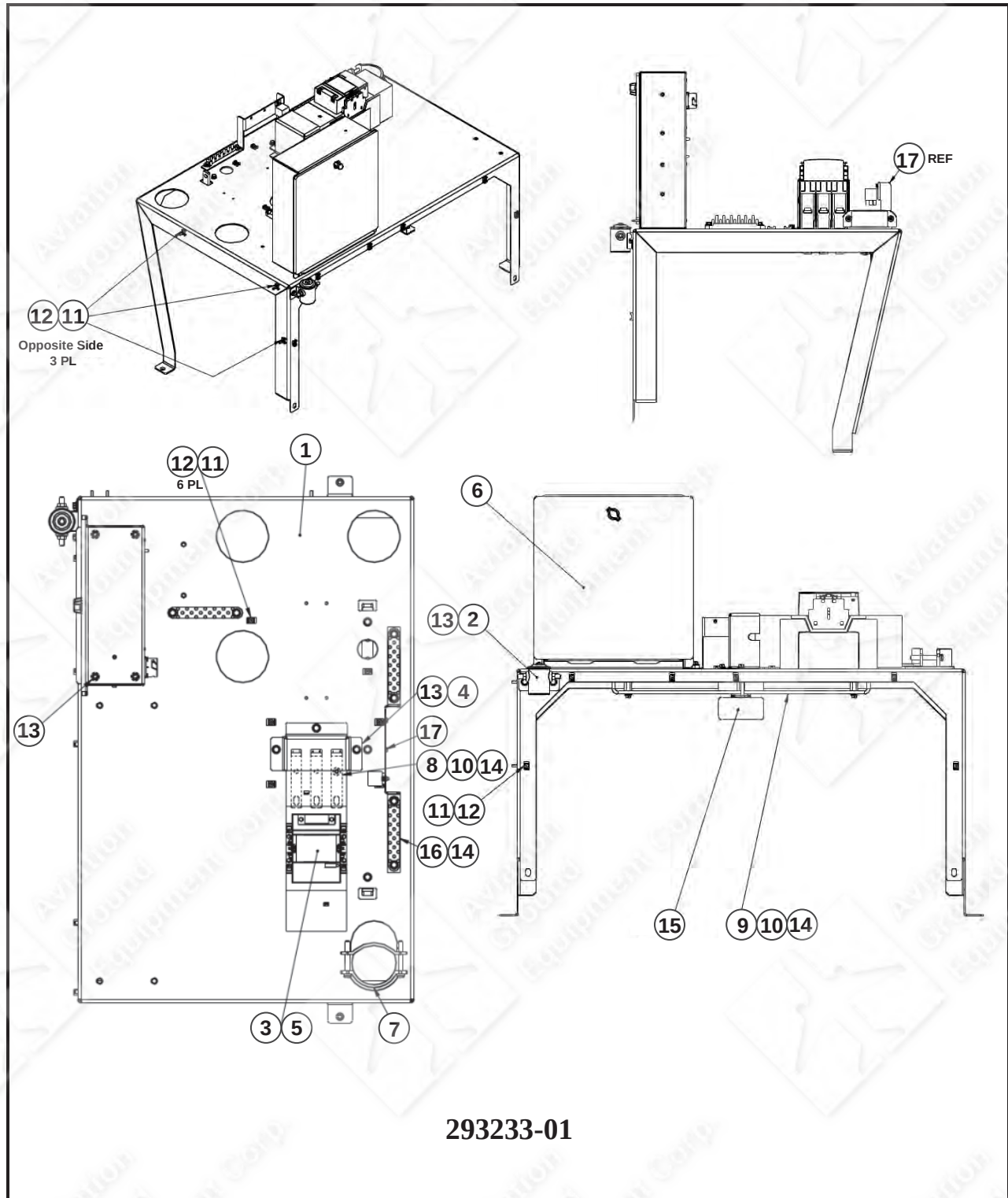


Figure 3-9. Single Output, Table Assembly, 60-90 kVA (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
3-9-	293233-01	Single Output, Table Assembly, 4400-T4		REF
3-9- 1	293234	..Output Stand		1
3-9- 2	CA11386	..Contactor, Starter, 24VDC		1
3-9- 3	CA11372	..Contactor, 400Hz [Fasten with supplier hardware]		1
3-9- 4	293218	..Guard, Single Contactor		1
3-9- 5	CA11474	..Terminal Shroud [Fasten with supplier hardware]		2
3-9- 6	293248	..Control Module Box Assembly		1
3-9- 7	CY11387	..Strain Relief		1
3-9- 8	293050	..Busbar, Contactor		3
3-9- 9	293051	..Busbar, Grounded		1
3-9- 10		...Hex Standoff, M6 x 40mm, Nylon		6
3-9- 11		...Tie-Down, Black		15
3-9- 12		...Screw, FLT HD Hex SOC, M4 x 16 mm		15
3-9- 13		...Hex Flg Bolt, M6-1 x 12 LG, GR10.9		9
3-9- 14		...Hex Flg Bolt, M6-1 x 20 LG, GR10.9		18
3-9- 15	293116	..Busbar, Finger Guard		2
3-9- 16	293202	..Harness, Output Table		1
3-9- 17	*293197	Schematic, Engine Drive, 4400-T4		REF
3-9- 18	*293288-01	Kit, Relay Output (Single Output)		1

*Item Not Illustrated

Figure 3-9. Single Output, Table Assembly, 60-90 kVA (Sheet 2 of 2).

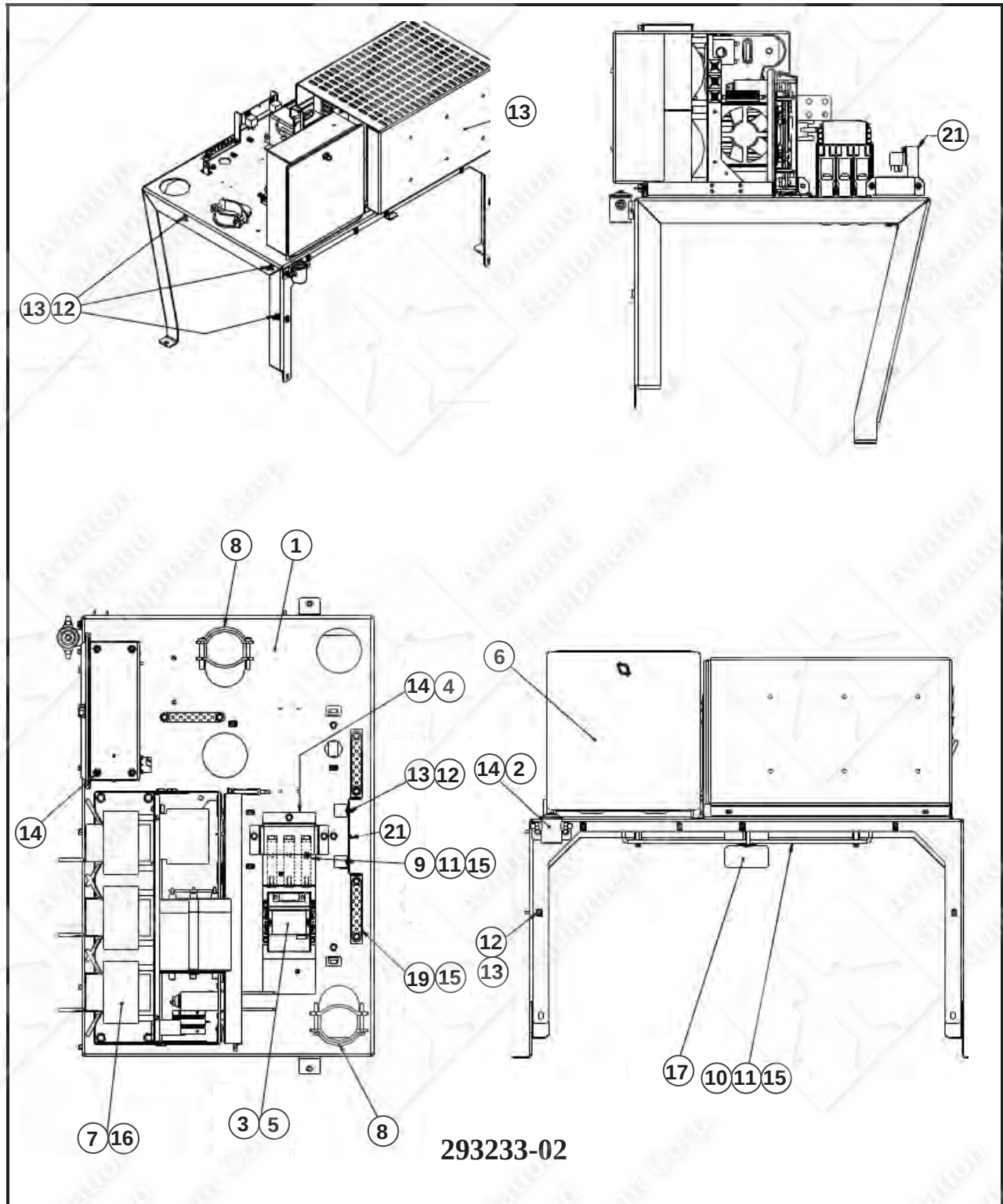


Figure 3-10. Single Output Table Assembly, W/28VDC ARU 60-90 kVA (Sheet 1 of 2).

FIGURE ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF. QTY.
3-10-	293233-02	Single Output, Table Assembly, W/28VDC ARU, 4400-T4	REF
3-10- 1	293234	..Output Stand	1
3-10- 2	CA11386	..Contactor, Starter, 24VDC	1
3-10- 3	CA11372	..Contactor, 400Hz [Fasten with supplier hardware]	1
3-10- 4	293218	..Guard, Single Contactor	1
3-10- 5	CA11474	..Terminal Shroud, [Fasten with supplier hardware]	2
3-10- 6	293248	..Control Module Box Assembly	1
3-10- 7	543280	..Rectifier Assembly	1
3-10- 8	CY11387	..Strain Relief	2
3-10- 9	293050	..Busbar, Contactor	3
3-10- 10	293051	..Busbar, Ground	1
3-10- 11		Hex Standoff, M6 x 40 mm Nylon	6
3-10- 12		... Tie-Down, Black	15
3-10- 13		... Flt Hd Hex Soc Screw, M4-16mm	15
3-10- 14		... Hex Flg Bolt, M6-1 x 12 LG, GR10.9	9
3-10- 15		... Hex Flg Bolt, M6-1 x 20 LG, GR10.9	18
3-10- 16		... Hex Flg Bolt, M8-1.25 x 20 LG, GR10.9	4
3-10- 17	293116	.. Finger Guard, Busbar	2
3-10- 18	293154	..Guard Front, ARU	1
3-10- 19	293201-02	..Harness, Output Table	1
3-10- 20	293113	..Cable Assembly, ARU	1
3-10- 21	293288-02	..Kit, Output Relay	1
3-10- 22	293197	Schematic, Engine Drive, 4400-T4	1
3-10- 23	293288-02	Kit, Relay Output (Single Output & ARU)	1

Figure 3-9. Single Output Table Assembly, W/28VDC ARU 60-90 kVA (Sheet 2 of 2).

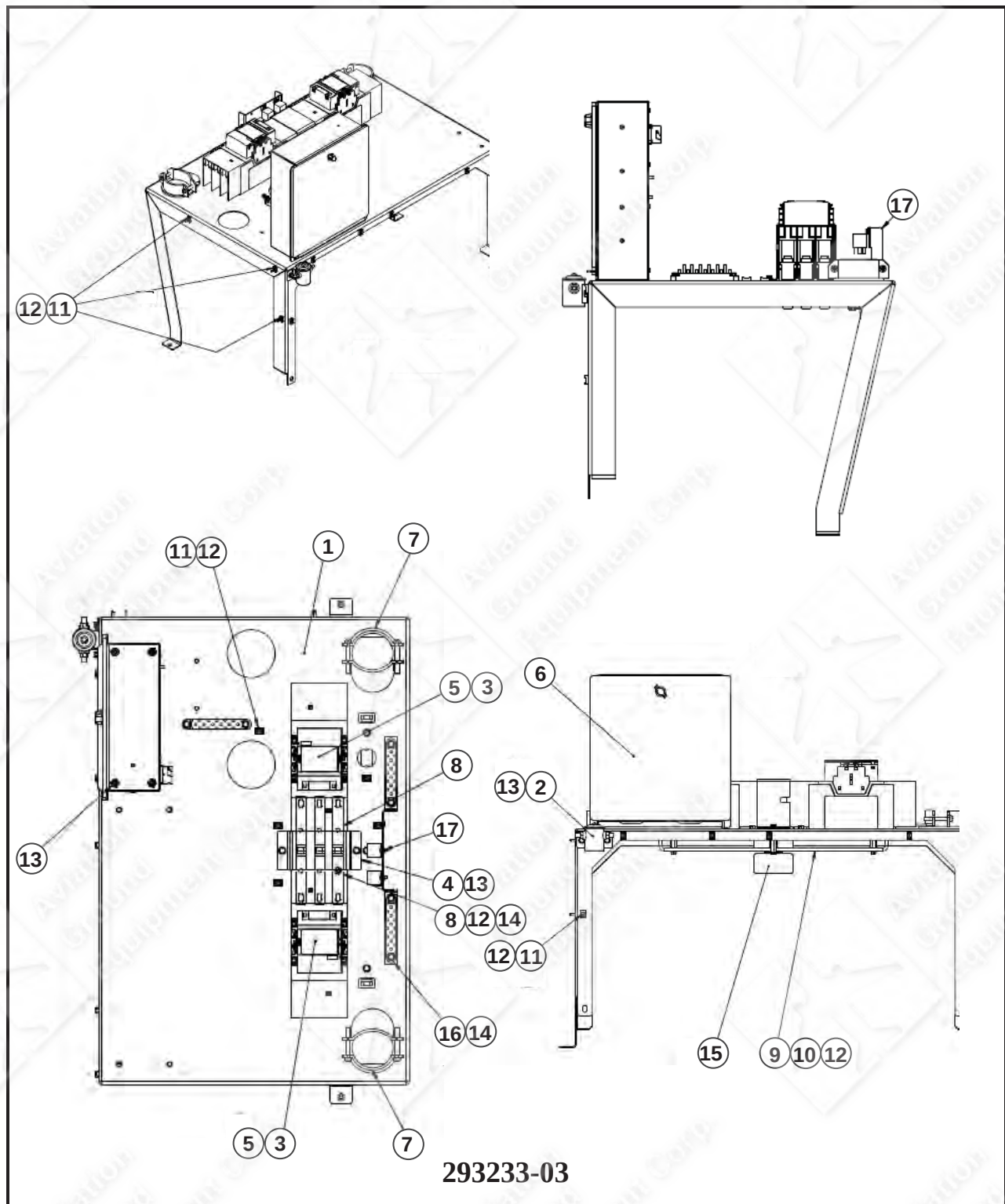


Figure 3-11. Dual Output, Table Assembly, 60-90 kVA (Sheet 1 of 2).

FIGURE ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
3-11-	293233-03	Dual Output, Table Assembly, 4400-T4		REF
3-11- 1	293234	..Output Stand		1
3-11- 2	CA11386	..Contactor, Starter, 24VDC		1
3-11- 3	CA11372	..Contactor, 400Hz		2
3-11- 4	293219	.. Guard, Dual Contactor		1
3-11- 5	CA11474	...Terminal Shroud		4
3-11- 6	293248	... Control Module Box Assembly (See Figure 3-)		1
3-11- 7	CY11387	... Strain Relief		2
3-11- 8	293050	...Busbar, Contactor		6
3-11- 9	293051	...Busbar, Ground		1
3-11- 10		...Hex Standoff, M6 x 40mm, Nylon		6
3-11- 11		Tie-Down, Black		15
3-11- 12		...Flt Hd Hex Soc Screw, M4-16mm		15
3-11- 13		...Hex Flg Bolt, M6-1 x 12 LG, GR10.9		8
3-11- 14		...Hex Flg Bolt, M6-1 x 20 LG, GR10.9		18
3-11- 15	293116	...Finger Guard, Busbar		2
3-11- 16	293202	Harness, Output Table		1
3-11- 17	*293197	Schematic, Engine Drive, 4400-T4		REF
3-11- 18	*293288-03	Kit, Relay Output (Dual Output)		1

* Item Not Illustrated

Figure 3-11. Dual Output, Table Assembly, 60-90 kVA (Sheet 2 of 2).

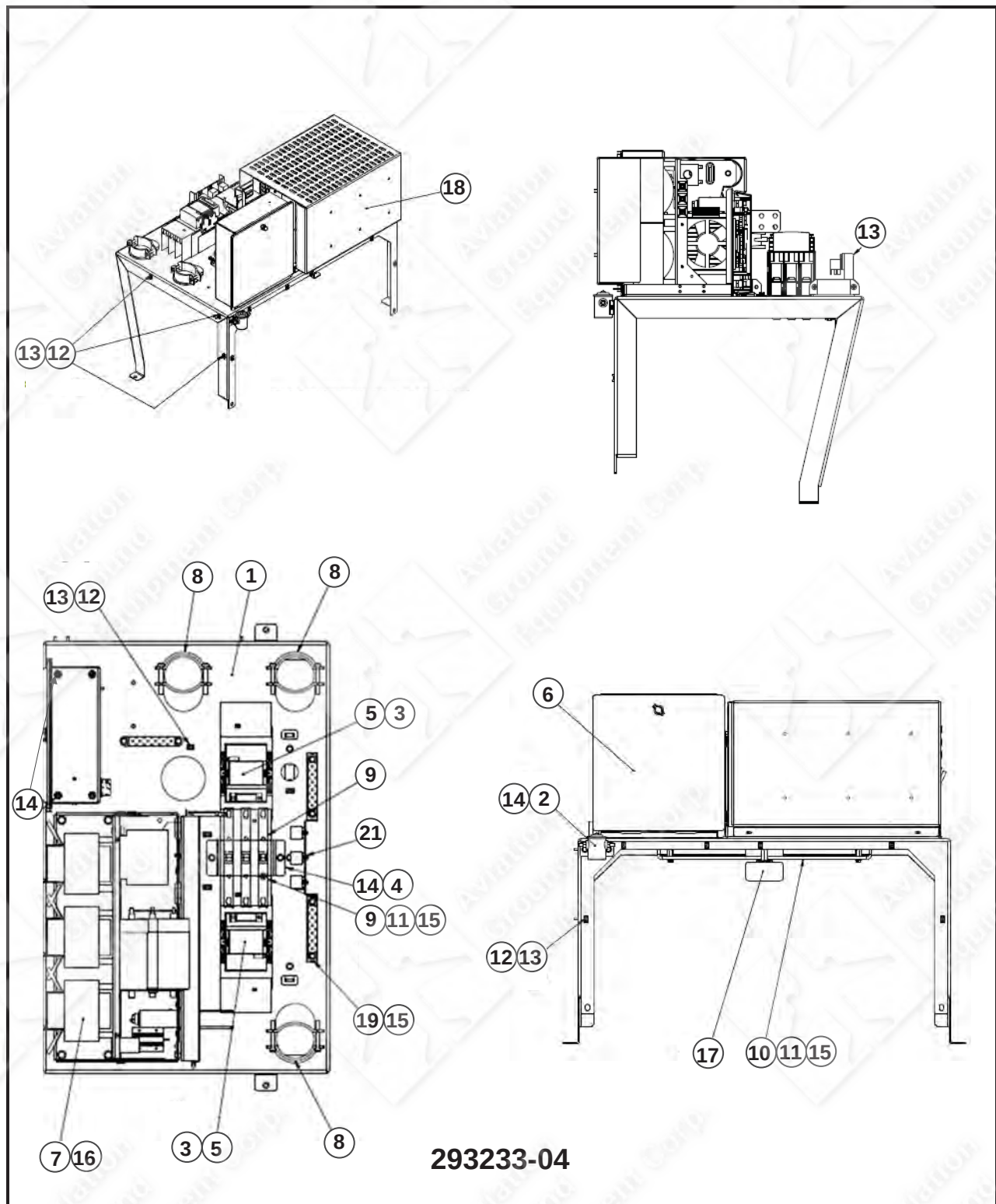


Figure 3-12. Dual Output, Table Assembly, W/28VDC ARU, 60-90 kVA (Sheet 1 of 2).

FIGURE ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
3-12-	293233-04	Dual Output Table Assembly, W/28VDC ARU, 4400-T4		REF
3-12- 1	293234	..Output Stand		1
3-12- 2	CA11386	..Contactor, Starter, 24VDC		1
3-12- 3	CA11372	..Contactor, 400Hz		2
3-12- 4	293219	..Guard, Dual Contactor		1
3-12- 5	CA11474	..Terminal Shroud		4
3-12- 6	293248	..Control Module Box Assembly (See Figure 3-)		1
3-12- 7	AP-543280	..Rectifier		1
3-12- 8	CY11387	...Strain Relief		3
3-12- 9	293050	...Busbar, Contactor		6
3-12- 10	293051	...Busbar, Ground		1
3-12- 11		...Hex Standoff, M6 x 40mm, Nylon		6
3-12- 12		Tie-Down, Black		18
3-12- 13		...Flt Hd Hex Soc Screw, M4-16mm		15
3-12- 14		...Hex Flg Bolt, M6-1 x 12 LG, GR10.9		8
3-12- 15		...Hex Flg Bolt, M6-1 x 20 LG, GR10.9		18
3-12- 16		...Hex Flg Bolt, M8-1.25 x 20 LG, GR10.9		4
3-12- 17	293116	...Finger Guard, Busbar		2
3-12- 18	293154	..Guard, Front, ARU		1
3-12- 19	293202	Harness, Output Table		1
3-12- 20	*293197	Schematic, Engine Drive, 4400-T4		REF
3-12- 21	*293113	Cable Assembly, ARU		1
3-12- 22	*293233-04	Kit, Relay Output (Dual Output & ARU)		1
* Item Not Illustrated				

Figure 3-12. Dual Output,Table Assembly, W/28VDC ARU, 60-90 kVA (Sheet 2 of 2).

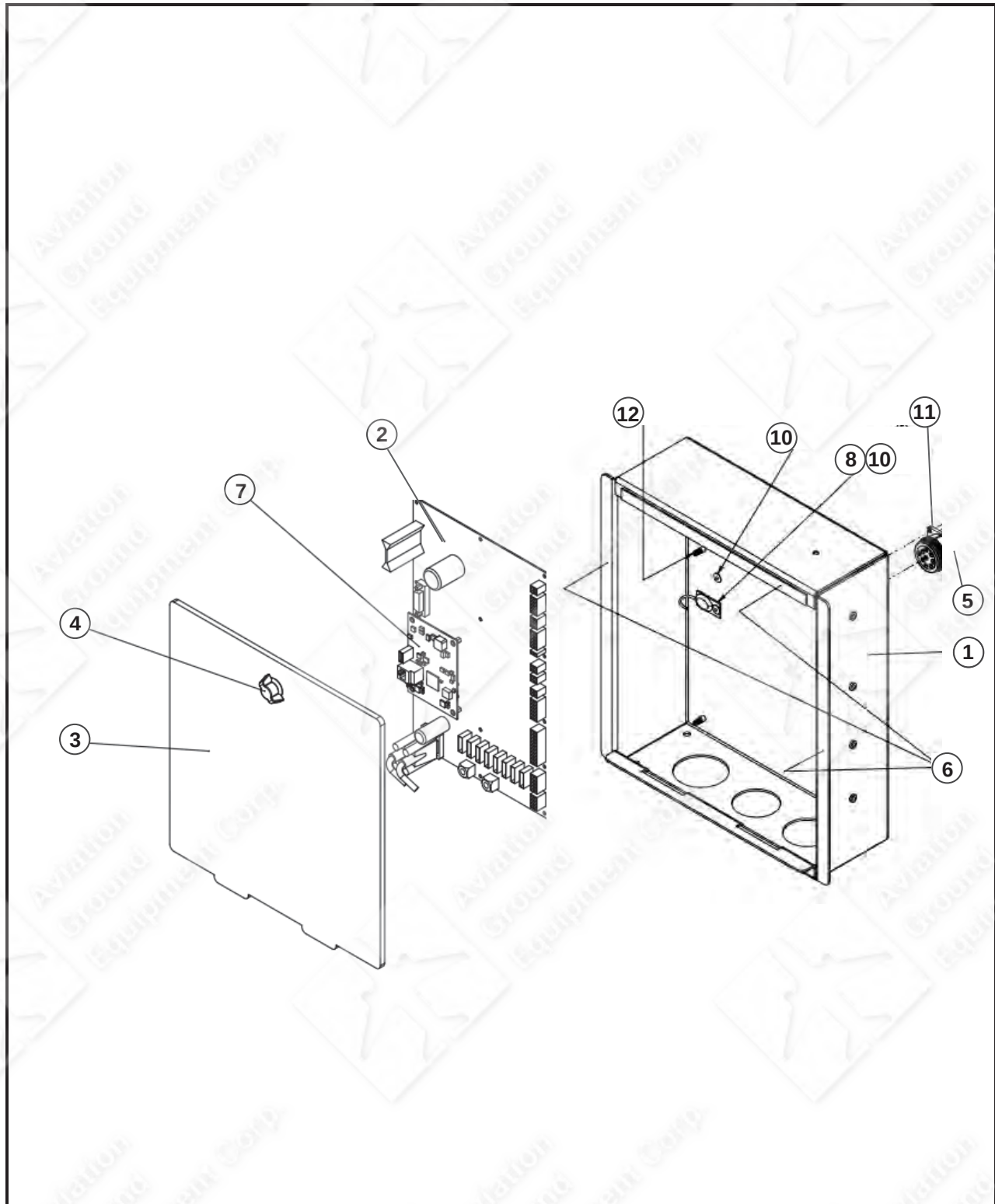


Figure 3-13. Control Module Box Assembly 60-90 kVA (Sheet 1 of 2).

FIGURE ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
3-13-	293248	Control Module Box Assembly		REF
3-13- 1	293249	..Control Box		1
3-13- 2	579534	..Diesel Interface Board		1
3-13- 3	293026	..Control Box Cover		1
3-13- 4	288023	...Knob Wing Latch		1
3-13- 5	293198	...Harness, Cummins Dongle		1
3-13- 6	IN5066	...Closed Cell Sponge with Adhesive, ½" X 1/8"		A/R
3-13- 7	579526-44	..Control Board		1
3-13- 8	579533	..EEPROM Board		1
3-13- 9	*293197	..Schematic, Engine Drive		REF
3-13- 10	KH0118	..Pop Rivet, 3/16 Dia, (1/8-1/4 Grip)		1
3-13- 11	WI1223-002	...#6-32 x 3/8 PH PAN HD T/C		4
3-13- 12	SSC-4-12-SSA	...Snap-On Standoff		1

* Item Not Illustrated

Figure 3-13. Control Module Box Assembly 60-90 kVA (Sheet 2 of 2).

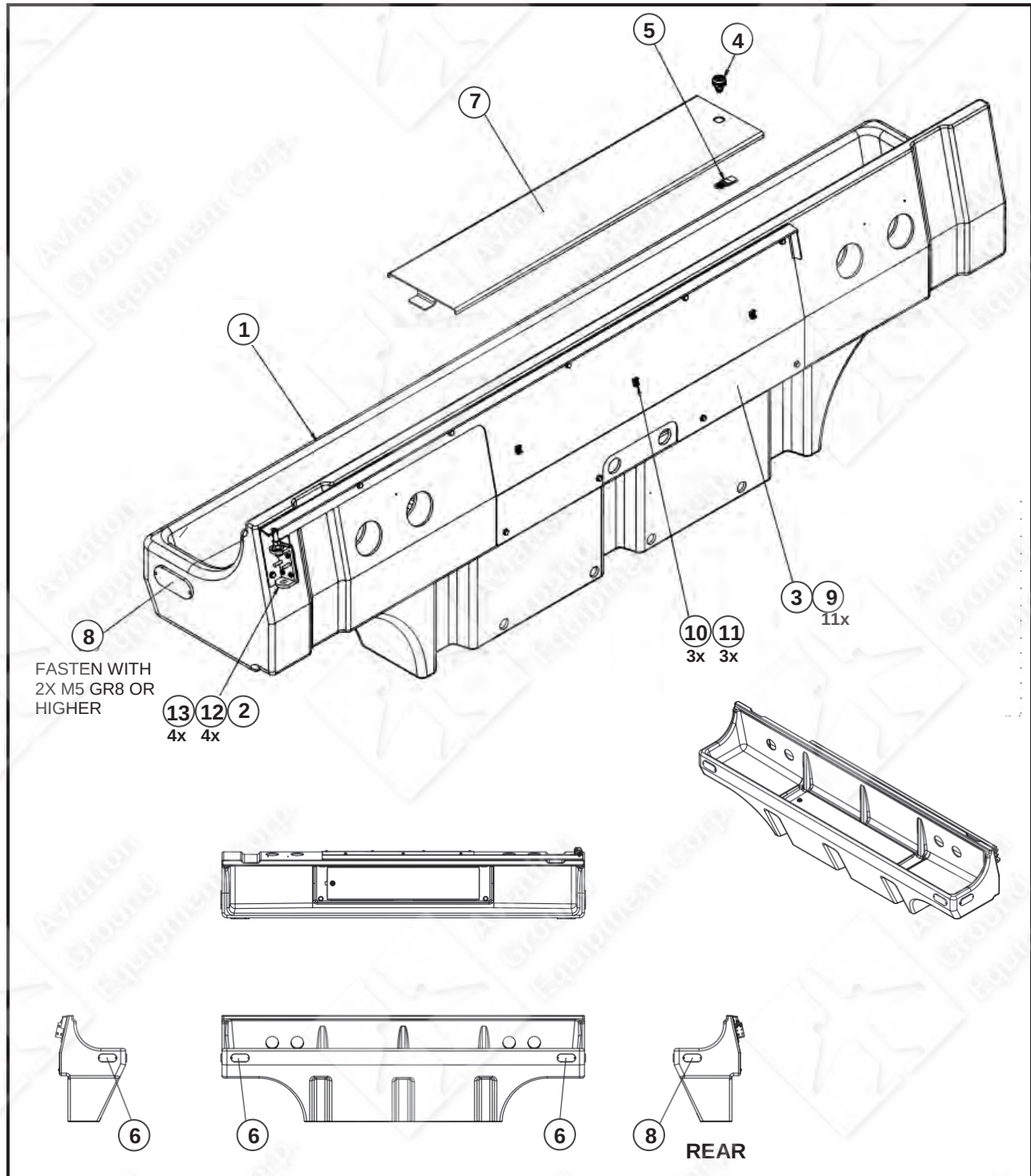


Figure 3-14. Cable Tray Assembly, Left Side 60-90 kVA (Sheet 1 of 2).

FIGURE ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
3-14- 1	293086	Cable Tray, Assembly, Left Side		REF
3-14- 2	293193	..Compression Latch, Modified		1
3-14- 3	293077-01	..Heat Shield, Cable Tray		1
3-14- 4	KH11192	...Cam Latch, Hex Head 8-32; NEMA 4		1
3-14- 5	KH11191	...Cam Grip Latch		1
3-14- 6	408665-02	..Reflector, Amber, Oblong		3
3-14- 7	293013	..Battery Cover		1
3-14- 8	408665-01	..Reflector, Red, Oblong		1
3-14- 9	HV5225	...#14 x 1 Hex Washer TEK Screw		11
3-14- 10	FF11389	...Tie-Down Black		3
3-14- 11	HM0620	...M6-1 x 20mm LG PH FLT HD		3
3-14- 12	203494-007	...M5 x 0.8 x 16 LG PH PN HD M/S		4
3-14- 13	286472-001	...M5 x 0.8 Nut Hex Flange		4

Figure 3-14. Cable Tray Assembly, Left Side 60-90 kVA (Sheet 2 of 2).

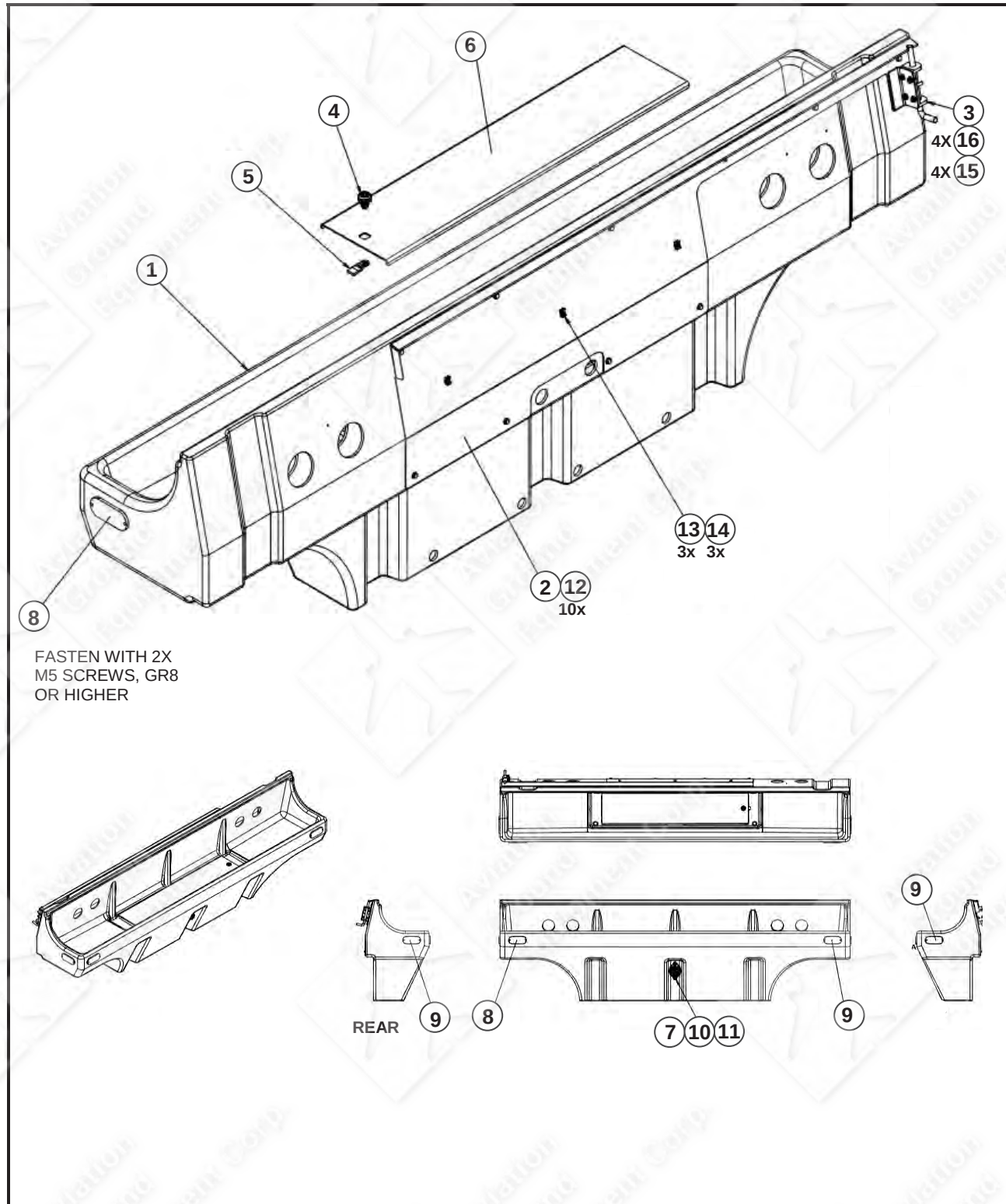


Figure 3-15. Cable Tray Assembly, Right Side 60-90 kVA (Sheet 1 of 2).

FIGURE ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
3-15- 1	293087	Cable Tray Assembly, Right Side		REF
3-15- 2	293077-02	..Heat Shield, Cable Tray		1
3-15- 3	KH11401	...Compression Latch		1
3-15- 4	KH11192	...Cam Latch, Hex Head 8-32; NEMA 4		1
3-15- 5	KH11191	...Cam Grip Latch		1
3-15- 6	293013	..Battery Cover		1
3-15- 7	SR11446	...Battery Switch Disconnect		1
3-15- 8	408665-002	..Reflector, Amber, Oblong		3
3-15- 9	408665-001	..Reflector, Red, Oblong		1
3-15- 10	HGF0830	... Hex Flg Bolt, M8-1.25 x 30 LG, GR10.9		2
3-15- 11	286473-004	...Hex Nut W/Spring Washer, M8 x 1.25		2
3-15- 12	HV5225	...#14 x 1 Hex Washer TEK Screw		11
3-15- 13	FF11389	...Tie-Down Black		3
3-15- 14	HM0620	... M6-1 x 20mm LG PH FLT HD		3
3-15- 15	203494-007	...M5 x 0.8 x 16 LG PH PN HD M/S		4
3-15- 16	286472-001	...M5 x 0.8 Nut Hex Flange		4

Figure 3-15. Cable Tray Assembly, Right Side 60-90 kVA (Sheet 2 of 2).

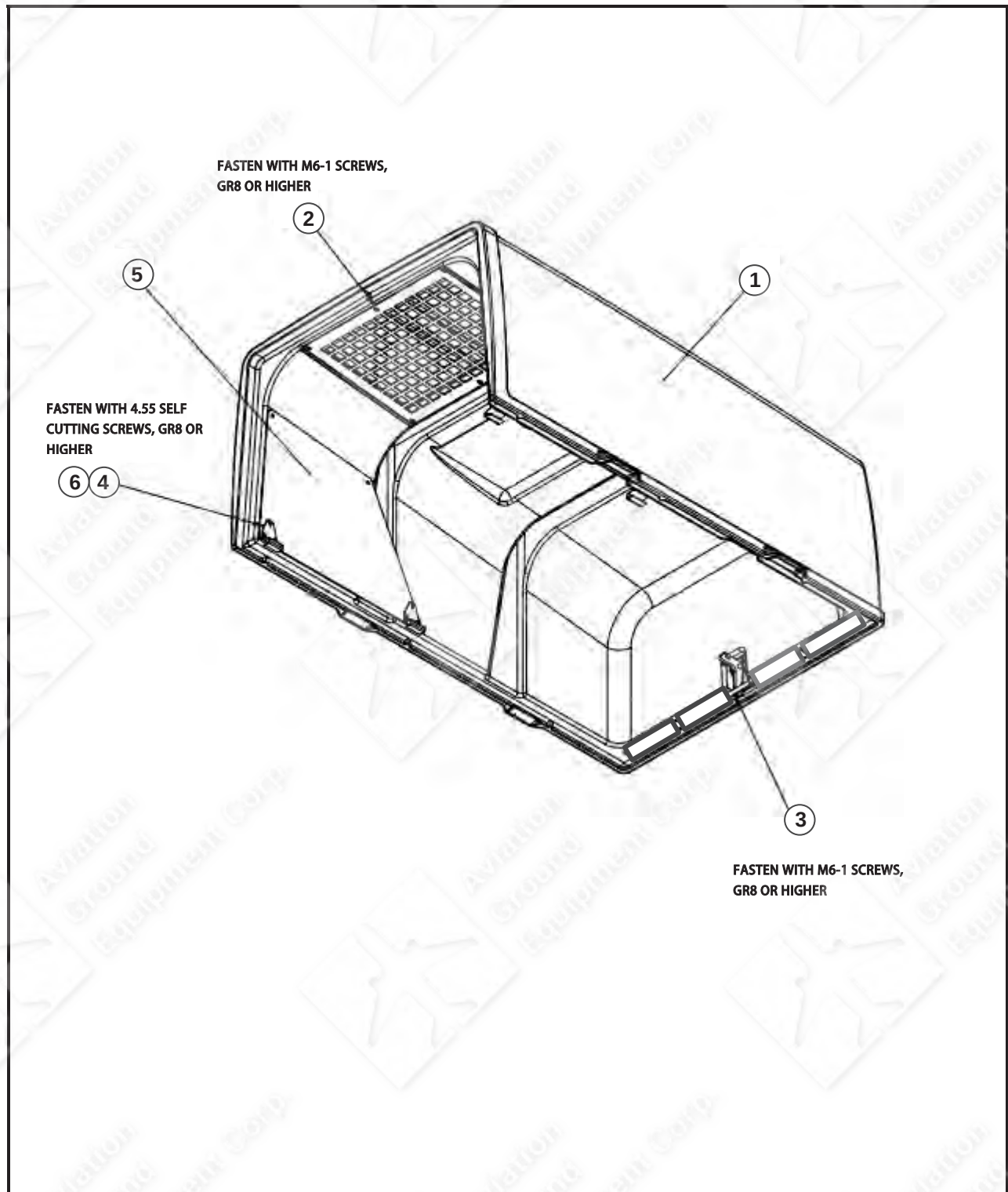


Figure 3-16. Top Canopy, Composite, Assembly 60-90 kVA (Sheet 1 of 2).

FIGURE ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
3-16- 1	293084	Top Canopy, Composite, Assembly		REF
3-16- 2	293020	..Panel, Top Grid		1
3-16- 3	293078	...Latch Assembly, Top Canopy		1
3-16- 4	293018	...Hook Slide, Main Canopy		4
3-16- 5	293019	..Heat Shield, Side, Top Canopy		1

Figure 3-16. Top Canopy, Composite Assembly 60-90 kVA (Sheet 2 of 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.	ITW GSE PART NO.	FIGURE ITEM NO.	ITW GSE PART NO.
3-1-1	293292	3-1-9	293260
3-1-2	293178-XX	3-1-10	288023
3-1-3	293183	3-1-11	IN5156
3-1-4	293184	3-1-12	IN5066
3-1-5a	293086	3-1-13	281881-001
3-1-5b	293087	3-1-14	293008
3-1-6	293084	3-1-15	494295
3-1-7	293261	3-1-16	293238
3-1-8	293329	3-1-17	293081
3-1-8a	275190	3-1-18	293167
3-1-8b	275191	3-1-19	293047
3-1-8c	275192	3-1-20	293259-01
3-1-8d	275193	3-1-21	293259-02

FIGURE ITEM NO.	ITW GSE PART NO.	FIGURE ITEM NO.	ITW GSE PART NO.
3-1-22	293188	3-2-1	293162
3-1-23	A051Y802	3-2-2	293292-02
3-1-24	A052B705	3-2-3	293292-03
3-1-25	293224	3-2-4	293292-04
3-1-26	293148	3-2-5	293292-05
3-1-27	293067	3-2-6	293292-06
3-1-28	288469-001	3-2-7	293292-07
3-1-29	293171	3-2-8	293292-08
3-1-29-1	293172	3-2-9	293292-09
3-1-29-2	GA11436	3-2-10	293292-10
3-1-29-3	HGF1020	3-2-11	293292-11
3-1-29-4	286472-004	3-2-12	293292-12
3-1-30	293230-XX	3-2-13	293292-13
3-1-31	293125-XX	3-2-14	293292-14
3-1-32	293098	3-2-15	293292-15
3-2-	293363	3-2-16	293292-16

FIGURE ITEM NO.	ITW GSE PART NO.	FIGURE ITEM NO.	ITW GSE PART NO.
3-2-17	293292-17	3-3-9	293091
3-2-18	293292-18	3-3-10	IL11359
3-2-19	293292-19	3-3-11	293335
3-2-20	293292-20	3-3-12	EB11439
3-2-21	293292-21	3-3-13	293192
3-2-22	293292-22	3-3-14	TA11449
3-3-	293177-XX	3-3-15	286472-004
3-3-1a	293178-01	3-3-16	CO5040
3-3-1b	293178-02	3-3-17	EC11611
3-3-2	293292	3-3-18	EC11613
3-3-3	293182	3-4-1a	293282
3-3-4	FI11399	3-4-1b	
3-3-5	293080	3-4-2	FB11360
3-3-6	VA11479	3-4-3	293004
3-3-7	TS11478	3-4-4	288460-004
3-3-8	HGF1030	3-4-5	VM11349

FIGURE ITEM NO.	ITW GSE PART NO.	FIGURE ITEM NO.	ITW GSE PART NO.
3-4-6	HGF150	3-4-22	290597-006
3-4-7	HGF1045	3-4-23	290597-007
3-4-8	HGRF300	3-4-24	293179
3-4-9	HGF1090	3-4-25	293191
3-4-10	HGF1625	3-4-26	293229
3-4-11	HGF0612	3-4-27	EC11501
3-4-12	HGF0820	3-4-28	EC11498
3-4-13	HGF0812	3-4-29	EC11503
3-4-14	HGF1030	3-4-30	EC11504
3-4-15	HGF0620	3-4-31	EC11502
3-4-16	HR11474	3-4-32	056535
3-4-17	HGF0830	3-4-33	W10869-014
3-4-18	286473-004	3-4-34	FM5059
3-4-19	HRKBA1	3-4-35	CY11609
3-4-20	293217	3-4-36	W10869-001
3-4-21	282918	3-4-37	W10869-002

FIGURE ITEM NO.	ITW GSE PART NO.	FIGURE ITEM NO.	ITW GSE PART NO.
3-4-38	EC11378	3-6-1a	293177-01
3-4-39	EC11379	3-6-1b	293177-02
3-4-40	293342-01	3-6-2	293139
3-4-41	293342-02	3-6-3	293187
3-4-42	293343	3-6-4	293189
3-5-	293091	3-6-5	293277
3-5-1	293090	3-6-6	293294
3-5-2	293094	3-6-7	293297
3-5-3	293092	3-6-8	AA6380
3-5-4	293093	3-6-9	HDW
3-5-5	293108	3-6-10	HDW
3-5-6	HGF0830	3-6-11	HDW
3-5-7	HGF0820	3-6-12	HDW
3-5-8	HGF0610	3-6-13	HDW
3-5-9	282182-005	3-6-14	EC11494
3-6-	293183	3-6-15	EC11495

FIGURE ITEM NO.	ITW GSE PART NO.	FIGURE ITEM NO.	ITW GSE PART NO.
3-6-16	293377	3-6-37	293264
3-6-17	EC11489	3-6-38	EB5243
3-6-18	EC11490	3-6-39	CY5124
3-6-19	EC11491	3-6-41	293309-01
3-6-20	EC11492	3-6-42	293309-02
3-6-21	EC11493	3-6-43	IN11366
3-6-22	EC11497	3-7-	293277
3-6-23	TS11511	3-7-1	803001185
3-6-24	TS11513	3-7-1a	890001152
3-6-25	288187	3-7-1b	849001017
3-6-26	HDW	3-7-1c	849001021
3-6-31	W10869-014	3-7-1d	851001002
3-6-32	HDW	3-7-1e	851001007
3-6-34	FI5978	3-7-1f	877001009
3-6-35	W10869-002	3-7-1g	890001153
3-6-36	HDW	3-7-1h	851001042

FIGURE ITEM NO.	ITW GSE PART NO.	FIGURE ITEM NO.	ITW GSE PART NO.
3-7-1i	876001011	3-7-15	897001470
3-7-1j	888001169	3-7-16	899001342
3-7-1k	555001170	3-7-17	900001701
3-7-2	835001210	3-7-18	900001702
3-7-3	835001212	3-7-19	911001115
3-7-4	857021081	3-7-20	912001234
3-7-5	859001005	3-9-	293233-01
3-7-6	859001006	3-9-1	293234
3-7-7	860001022	3-9-2	CA11386
3-7-8	862001004	3-9-3	CA11372
3-7-9	862001005	3-9-4	293218
3-7-10	869001150	3-9-5	CA11474
3-7-11	879001004	3-9-6	293248
3-7-12	879001013	3-9-7	CY11387
3-7-13	896001380	3-9-8	293050
3-7-14	897001468	3-9-9	293051

FIGURE ITEM NO.	ITW GSE PART NO.	FIGURE ITEM NO.	ITW GSE PART NO.
3-9-10	HDW	3-10-7	543280
3-9-11	HDW	3-10-8	CY11387
3-9-12	HDW	3-10-9	293050
3-9-13	HDW	3-10-10	293051
3-9-14	HDW	3-10-11	HDW
3-9-15	293116	3-10-12	HDW
3-9-16	293202	3-10-13	HDW
3-9-17	293197	3-10-14	HDW
3-9-18	293288-01	3-10-15	HDW
3-10-	293233-02	3-10-16	HDW
3-10-1	293234	3-10-17	293116
3-10-2	CA11386	3-10-18	293154
3-10-3	CA11372	3-10-19	293201-02
3-10-4	293218	3-10-20	293113
3-10-5	CA11474	3-10-21	293288-02
3-10-6	293248	3-10-22	293197

FIGURE ITEM NO.	ITW GSE PART NO.	FIGURE ITEM NO.	ITW GSE PART NO.
3-10-23	293288-02	3-11-15	293116
3-11-	293233-03	3-11-16	293202
3-11-1	293234	3-11-17	293197
3-11-2	CA11386	3-11-18	293288-03
3-11-3	CA11372	3-12-	293233-04
3-11-4	293219	3-12-1	293234
3-11-5	CA11474	3-12-2	CA11386
3-11-6	293248	3-12-3	CA11372
3-11-7	CY11387	3-12-4	293219
3-11-8	293050	3-12-5	CA11474
3-11-9	293051	3-12-6	293248
3-11-10	HDW	3-12-7	AP-543280
3-11-11	HDW	3-12-8	CY11387
3-11-12	HDW	3-12-9	293050
3-11-13	HDW	3-12-10	293051
3-11-14	HDW	3-12-11	HDW

FIGURE ITEM NO.	ITW GSE PART NO.	FIGURE ITEM NO.	ITW GSE PART NO.
3-12-12	HDW	3-13-5	293198
3-12-13	HDW	3-13-6	IN5066
3-12-14	HDW	3-13-7	579526-44
3-12-15	HDW	3-13-8	579533
3-12-16	HDW	3-13-9	293197
3-12-17	293116	3-13-10	KH0118
3-12-18	293154	3-13-11	WI1223-002
3-12-19	293202	3-13-12	SSV-4-12-SSA
3-12-20	293197	3-14-1	293086
3-12-21	293113	3-14-2	293193
3-12-22	293233-04	3-14-3	293077-01
3-13-	293248	3-14-4	KH11192
3-13-1	293249	3-14-5	KH11191
3-13-2	579534	3-14-6	408665-02
3-13-3	293026	3-14-7	293013
3-13-4	288023	3-14-8	408665-01

FIGURE ITEM NO.	ITW GSE PART NO.
3-14-9	HV5225
3-14-10	FF11389
3-14-11	HM0620
3-14-12	203494-007
3-14-13	286472-001
3-15-1	293087
3-15-2	293077-02
3-15-3	KH11401
3-15-4	KH11192
3-15-5	KH11191
3-15-6	293013
3-15-7	SR11446
3-15-8	408665-002
3-15-9	408665-001
3-15-10	HGF0830
3-15-11	286473-004

FIGURE ITEM NO.	ITW GSE PART NO.
3-15-12	HV5225
3-15-13	FF11389
3-15-14	HM0620
3-15-15	203494-007
3-15-16	286472-0001
3-16-1	293084
3-16-2	293020
3-16-3	293078
3-16-4	293018
3-16-5	293019