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**ITW
GSE**

Illustrated Parts List

ITW GSE 4400

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



Series no. 500100

**ITW
GSE HOBART**

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Chapter 1 Illustrated Parts List

Section 1 Introduction

1) General

The Illustrated Parts List identifies, describes, and illustrates main assemblies, subassemblies, and detail parts of a Diesel Engine-Generator Set manufactured by ITW GSE, Palmetto, Florida.

2) Purpose

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

3) Arrangement

Chapter 1 is arranged as follows:

Section 1 – Introduction,
Section 2 - Parts List,
Section 3 - Numerical index,

4) Explanation of Parts List

a) Contents

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 also commercially available.
- Permanently attached parts, which lose their identity by being welded, soldered, riveted, etc., to other parts, weldments, or assemblies.

b) Parts List Form

This form is divided into six columns. Beginning at the left side of the form and proceeding to the right, columns are identified as follows:

(1) FIGURE- ITEM NO. Column

This column lists the figure number of the illustration applicable to a particular parts list and also identifies each part in the list by an item number. These item numbers also appear on the illustration. Each item number on an illustration is connected to the part to which it pertains by a leader line. Thus the figure and item numbering system ties the parts lists to the illustrations and vice-versa. The figure and index numbers are also used in the numerical index to assist the user in finding the illustration of a part when the part number is known.

(2) ITW GSE NUMBER Column

All part numbers appearing in this column are ITW GSE numbers. In all instances where the part is a purchased item, the vendor's identifying five-digit code and his part number will appear in the "NOMENCLATURE" column. Vendor parts, which are modified by ITE GSE, will be identified as such in the "NOMENCLATURE" column. In case Hobart does not have an identifying part number for a purchased part, the "ITW GSE PART NUMBER" column will reflect "No Number" and the vendor's number if applicable will be shown in the "NOMENCLATURE" column. Parts manufactured by ITW GSE will reflect no vendor or part number in the "NOMENCLATURE" column.

(3) NOMENCLATURE Column

The item-identifying name appears in this column. The indenture method is used to indicate item relationship. Thus, components of an assembly are listed directly below the assembly and indented one space. Vendor codes and part numbers for purchased parts are also listed in this column when applicable. Hobart modification to vendor items is also noted in this column.

(4) EFF (Effective) Column

This 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, there are some parts that 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.

Part Code	Part Number	Output	Model Description	CE Certified
A	293105	400Hz	Single Output	--
B	293095	400Hz plus 28VDC	Single Output	--
C	293096	400Hz	Dual Output	--
D	293097	400Hz plus 28VDC	Dual Output	Yes

If the EFF column is blank, that part is used on all models.

(5) QTY. Column.

This 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.

Section 2 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).

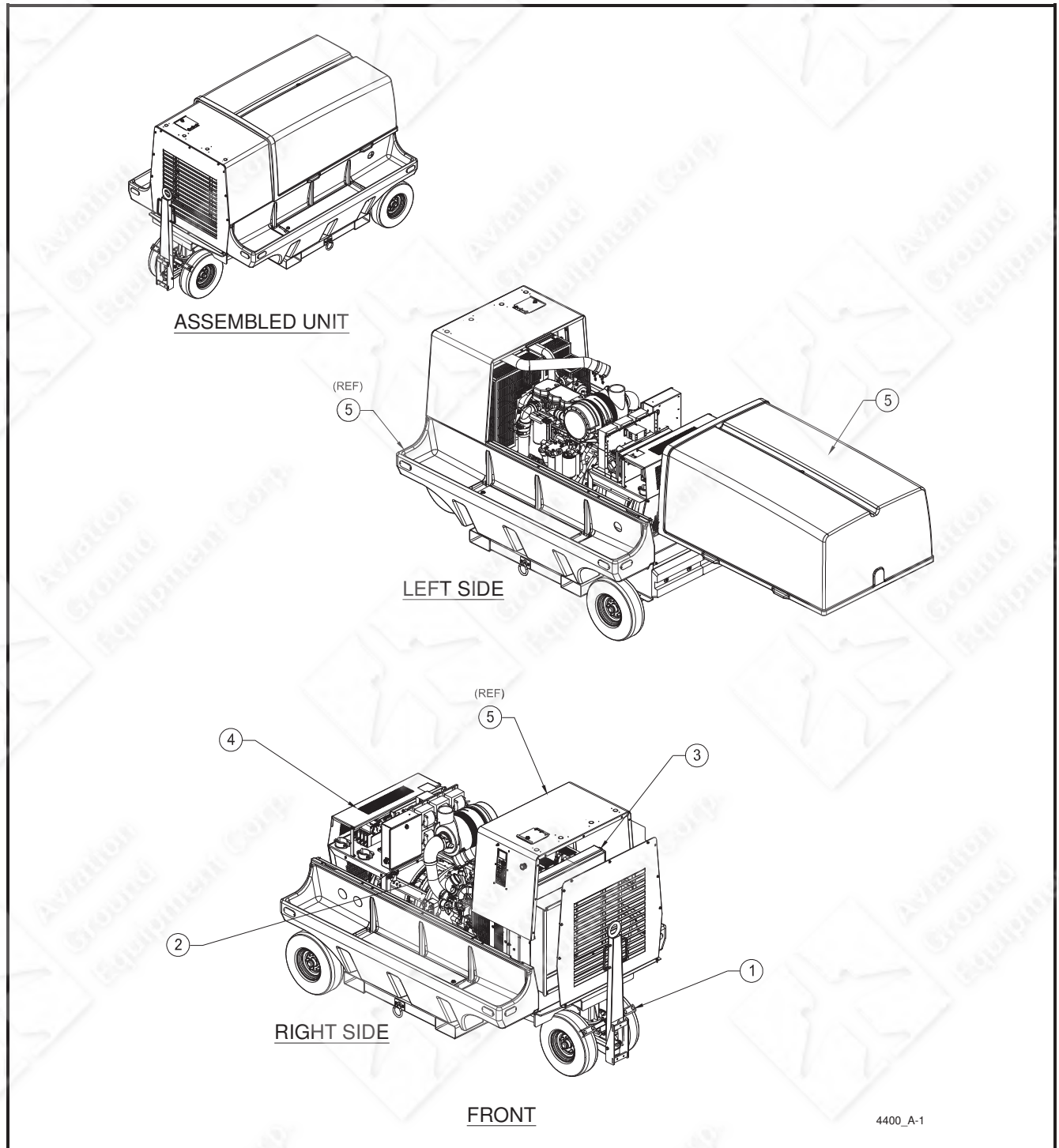


Figure 4-1. 4400, 60-90kVA, 3-Phase 115 Volt Generator Set (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	DISCRIPTION	EFF.	QTY.
4-1	4400 Rev A	60-90kVA, 3-Phase 115 Volt Generator Set		REF
4-1- 1	293001	.Trailer Assembly, Common Platform (See Figure 4-2)		1
4-1- 2	293034	.Genset/Fuel Tank Install, 60/90 kVA (See Figure 4-4)		1
4-1- 3	293036	.Radiator/Exhaust Installation (See Figure 4-7)		1
4-1- 4	293038	.Electrical System Installation (See Figure 4-9)		1
4-1- 5	293073	.Cable Tray/Canopy Installation, 4400 (See Figure 4-15)		1

Figure 4-1. 4400, 60-90kVA, 3-Phase 115 Volt Generator Set (Sheet 2).

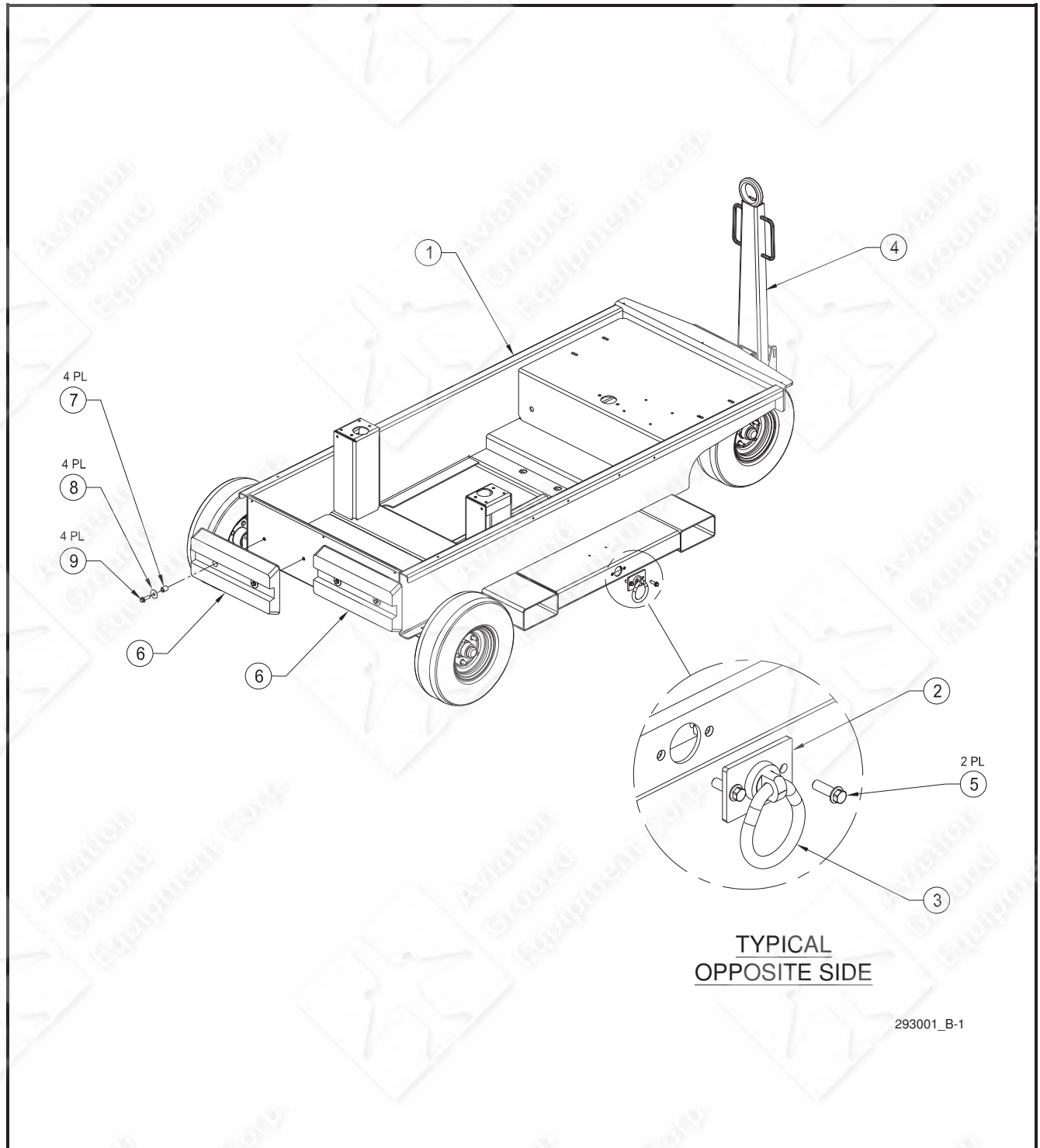
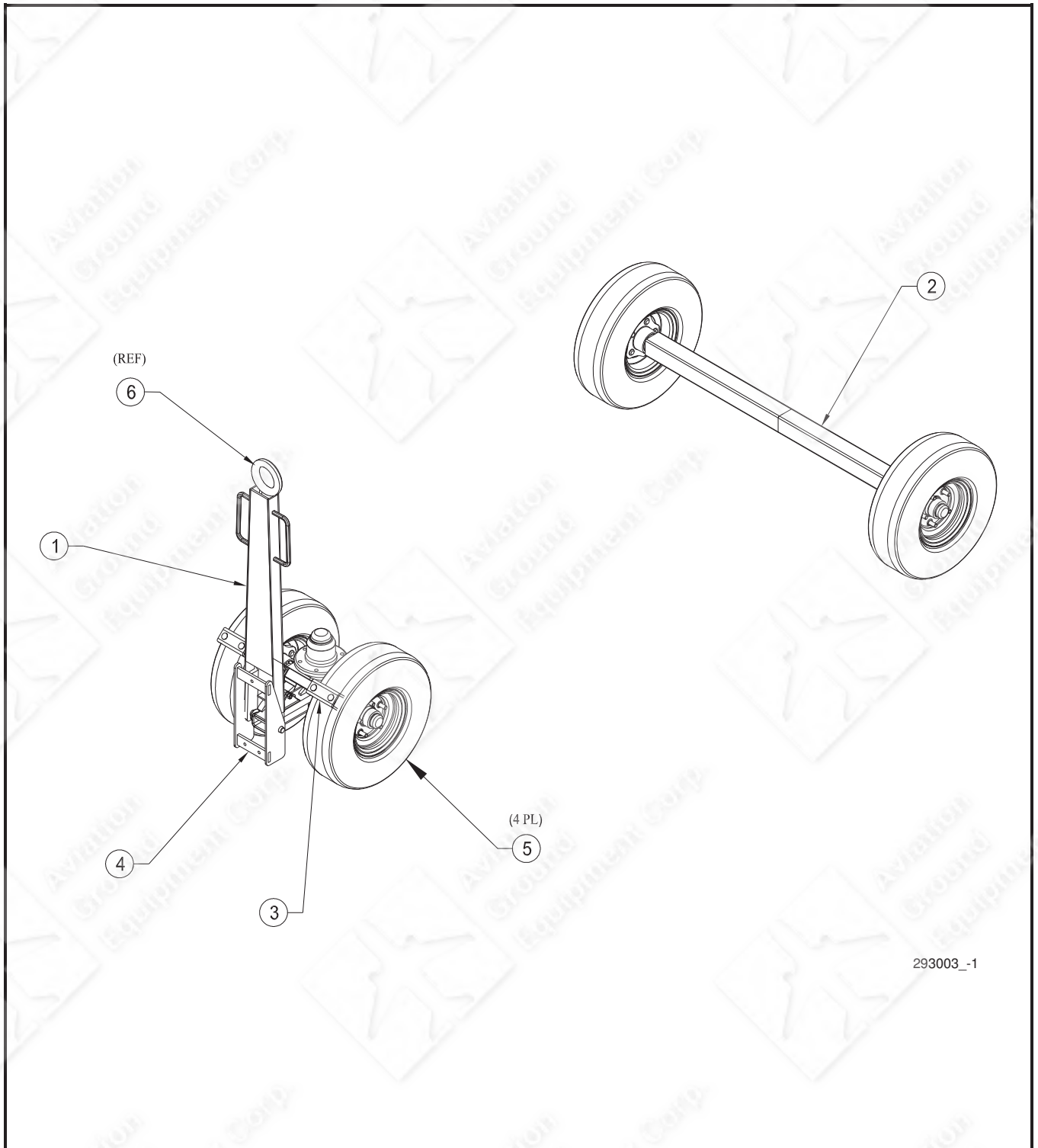


Figure 4-2. Trailer Assembly Common Platform (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-2-	293001	Trailer Assembly, Common Platform		1
4-2- 1	293002	. Base Frame, Common Platform		1
4-2- 2	80-B1097	. . Tie Down Plate		2
4-2- 3	80B-1167	. . Tie Down Ring Assembly		2
4-2- 4	293003	. . Running Gear Assembly, 4400 Platform (See Figure 4-3)		1.
4-2- 5	No Number	... Hex Flg Bolt, M10-1.5 x 30 lg, GR10.9		4
4-2- 6	IN11393	. . Bumper, Hard Rubber		2
4-2- 7	No Number	...Spacer, Nylon, 1" OD x 1" lg		4
4-2- 8	No Number	...Washer, Snubbing		4
4-2- 9	No Number	... Hex Flg Bolt, M10-1.5 x 45 lg, GR10.9		4

Figure 4-2. Trailer Assembly, Common Platform Set (Sheet 2).

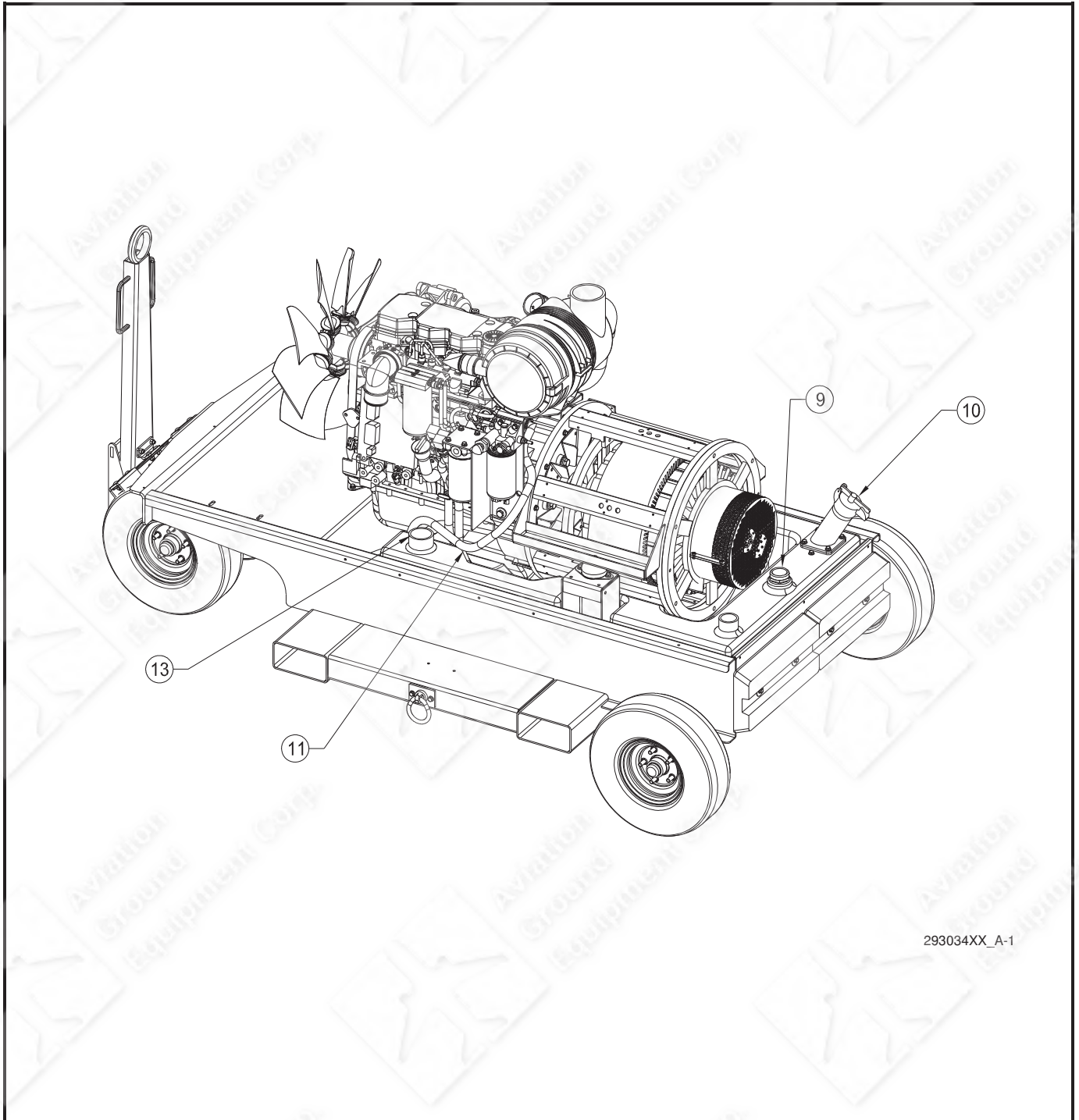


293003_-1

Figure 4-3. Running Gear Assembly, 4400 Platform. (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-3-	293003 Rev-01	Running Gear Assembly, 4400 Platform		1
4-3- 1	293003-5 th Wheel	...5 th Wheel Assembly		1
4-3- 2	293003-Rear Axle	...Rear Axle Assembly		1
4-3- 3	293067	Breaking Pad Kit Assembly, 18-1/2" Wheel		1
4-3- 4	288455	...Towbar Leveler Support		1
4-3- 5	TA11411	Tire, Super Grip GSE 500/750-8 ply rated, 18.5 OD		4
4-4- 6	293148	DIN40 Tow Bar Eye (Optional)		1

Figure 4-3. Running Gear Assembly, 4400 Platform (Sheet 2).



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Figure 4-4. Genset/Fuel Tank Installation, 60/90 kVA (Sheet 1 of 3).

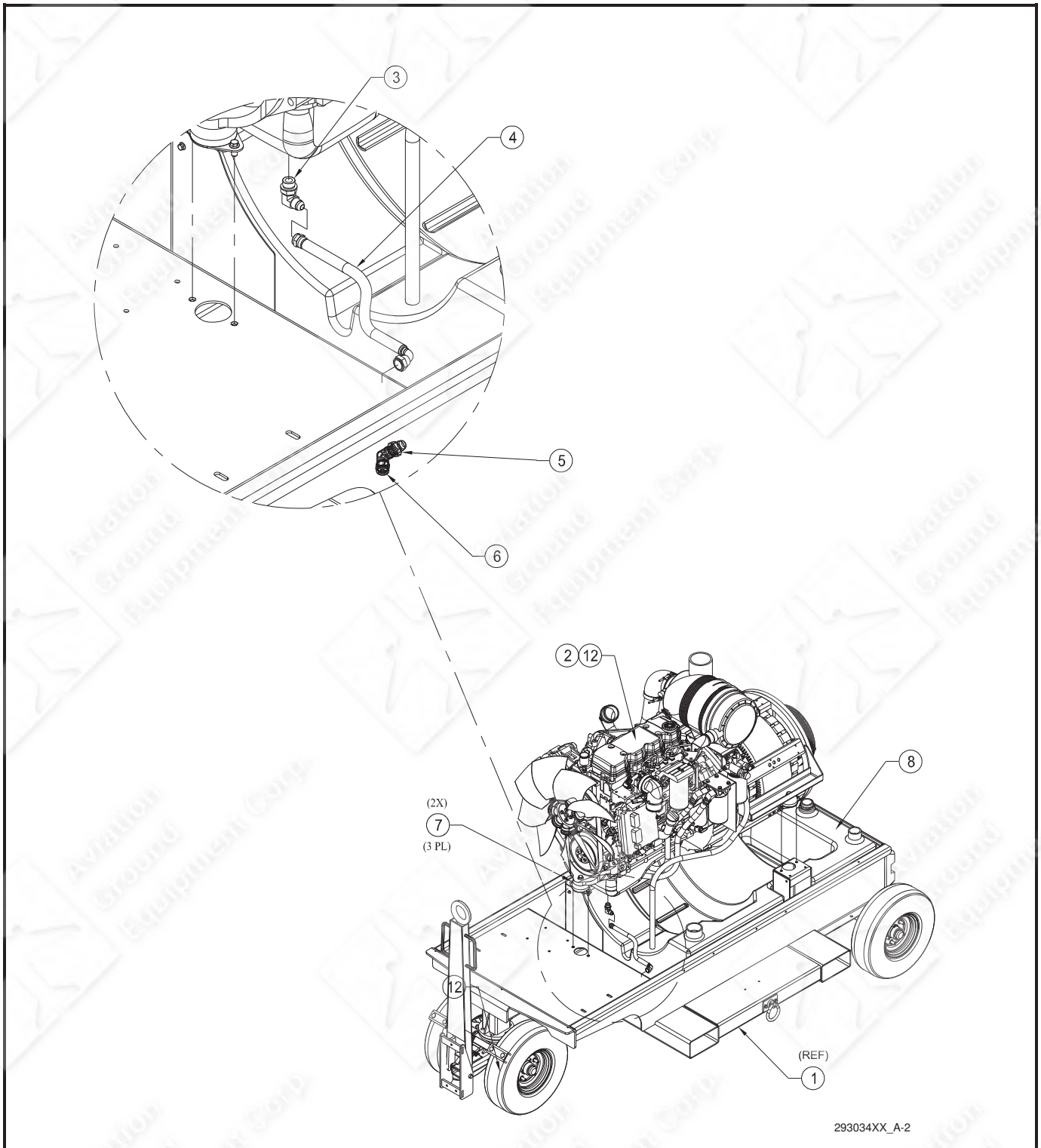
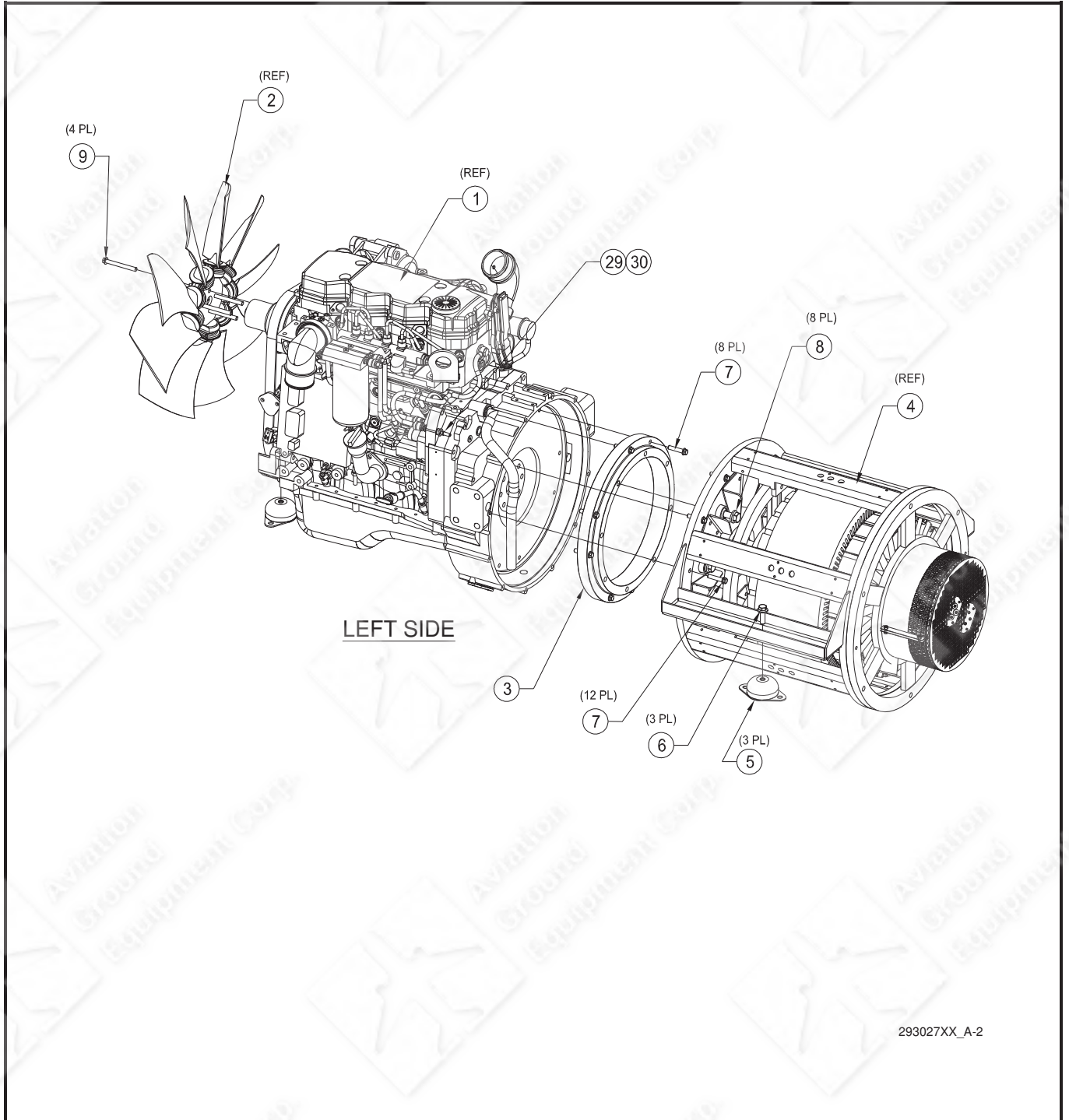


Figure 4-4. Genset/Fuel Tank Installation, 60/90 kVA (Sheet 2).

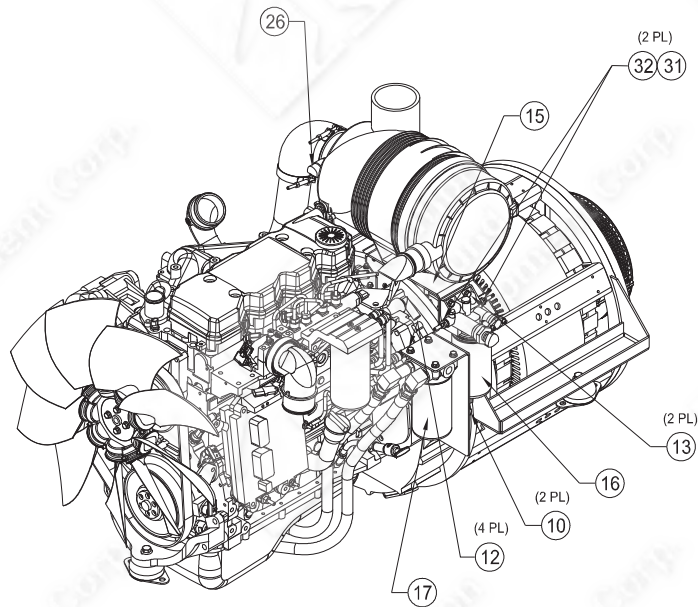
FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-4-	293034-XX	Genset/Fuel Tank Installation, 60/90kVA		REF
4-4- 1	293001	.Trailer Assembly, Common Platform		REF
4-4- 2	293027-02	.Genset Assembly, 90kVA (See Figure 4-5)		1
4-4- 3	FI11399	..Elbow, 90 De. W/O-Ring, 3/4-16 X M22X1.5 Male		1
4-4- 4	293080	..Oil Drain Hose Assembly		1
4-4- 5	FI5182	.. 3/4-16 Bulkhead Adapter		1
4-4- 6	FI0074	.. 1/2"Cap Nut		1
4-4- 7	No Number	...Hex Flg Bolt, M10-1.5 x 20 lg, GR10.9		6
4-4- 8	293091	..Fuel Tank Composite Assembly, CP (See Figure 4-6)		1
4-4- 9	IL11359	...Mechanical Fuel Gauge		1
4-4- 10	EB11367	...Protectoseal, Fuel Cap Filler		1
4-4- 11	056525	...Hose, 3/4" ID x 1" OD		1
4-4- 12	203027-01	. Genset Assembly, 60kVA (See Figure 4-5)		1
4-4- 13	SRI377	..Fuel Sender		1

Figure 4-4. Genset/Fuel Tank Installation, 60/90 kVA (Sheet 3).

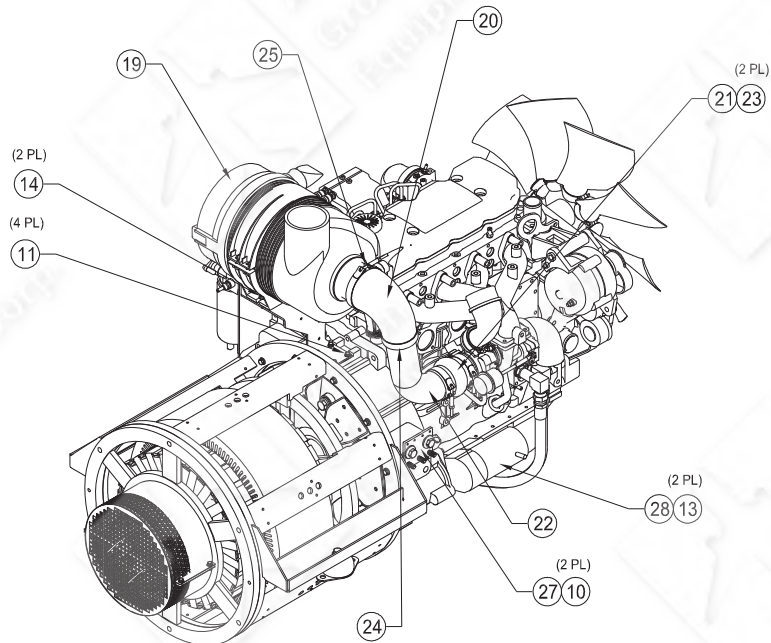


293027XX_A-2

Figure 4-5. Genset Assembly, 60/90kVA (Sheet 1 of 4).



LEFT SIDE



RIGHT SIDE

293027XX_A-1

Figure 4-5. Genset Assembly, 60/90kVA (Sheet 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-5-	293027-XX	Genset Assembly, 60/90kVA		Ref.
4-5- 1	293061	Engine, Cummins QSB4.5 Tier 3, 90kVA		1
	293126	Engine, Cummins QSB4.5 Tier 3, 60kVA		1
4-5- 2	FB11360	..Radiator Fan		1
4-5- 3	293004	..Flywheel Spacer Ring		1
4-5- 4	288460-004	..Generator Assembly, 2000 RPM		1
4-5- 5	VM11349	..Engine/Generator Mount		3
4-5- 6	No Number	... Hex Flg Bolt, 1/2-13 x 1.50 lg, GR8		3
4-5- 7	No Number	... Hex Flg Bolt, M10-1.5 x 45 lg, GR10.9		20
4-5- 8	No Number	... Hex Flg Bolt, 5/8-11 x 3 lg, GR8		8
4-5- 9	No Number	... Hex Flg Bolt, M10-1.5 x 90 lg, GR10.9		4
4-5- 10	No Number	... Hex Flg Bolt, M16-2 x 25 lg, GR8		4
4-5- 11	No Number	... Hex Flg Bolt, M6-1 x 12 lg, GR10.9		4
4-5- 12	No Number	... Hex Flg Bolt, M8-1.25 x 12 lg, GR10.9		4
4-5- 13	No Number	... Hex Flg Bolt, M10-1.5 x 30 lg, GR10.9		4
4-5- 14	No Number	... Hex Flg Bolt, M8-1.25 x 30 lg, GR10.9		2
4-5- 15	293028	..Filter Bracket, 90CU		1
4-5- 16	FS9841	..Fuel Filter/Water Separator		1
4-5- 17	LF9212	..Oil Filter Assembly		1
4-5- 18	CY11362	...Air Filter Band		1
4-5- 19	EB11361	..Air Intake Filter		1
4-5- 20	FI11363	..Elbow Reducer, 90Deg, 4-3		1
4-5- 21	AH11364	...Hump Hose Connector, 3" OD		1
4-5- 22	293031	..Air Filter Intake Tube, 3" ID		1
4-5- 23	290597-001	...Clamp, T-Bolt, 3.25 Dia		2
4-5- 24	290597-007	...Clamp, T-Bolt, 3.50 Dia		1
4-5- 25	290597-006	...Clamp, T-Bolt, 4.50 Dia		1
4-5- 26	282918	...Indicator, Restrictor, Electric		1
4-5- 27	293052	...Grounding Plate		1
4-5- 28	EC11368	..Motor Starter		1
4-5- 29	4894721	...Sealing Washer		1
4-5- 30	3964337	..Connector, Quick Disconnect		1
4-5- 31	EC11378	...Sealing Washer		2
4-5- 32	EC11379	..Connector, Quick Disconnect		2

Figure 4-5. Genset Assembly, 60/90kVA (Sheet 3).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-5- 33	*3863948	...Elbow, Male Adapter (Cummins P/N)		1
4-5- 34	*3864036	...Hose, Flexible (Cummins P/N)		1
4-5- 35	*3864172	...Hose, Flexible (Cummins P/N)		1
4-5- 36	*3903652	...Clamp, V Band (Cummins P/N)		1
4-5- 37	*3910131	...Spacer, Fan Pilot (Cummins P/N)		1
4-5- 38	*3937736	...Cartridge, Lube Oil Filter (Cummins P/N)		1
4-5- 39	*3963983	...Washer, Sealing (Cummins P/N)		1
4-5- 40	*3964337	...Connector, Quick Disconnect(Cummins P/N)		1
4-5- 41	*3974812	...Coupling, Plain Hose (Cummins P/N)		1
4-5- 42	*4021531	...QSB4.5/6.7 Operation and Maintenance Manual (Cummins P/N)		1
4-5- 43	*4894721	...Washer, Sealing (Cummins P/N)		1
4-5- 44	*4928800	...Head, Lube Oil Filter (Cummins P/N)		1
4-5- 45	*4995590	...Wiring Harness (Cummins P/N)		1
4-5- 46	*5259795	...Decal (Cummins P/N)		1
4-5- 47	*5288530	...Fuel Filter (Cummins P/N)		1
4-5- 48	*5312158	...Elbow, Male Adapter (Cummins P/N)		1
4-5- 49	*5318807	...Fuel Hose (Cummins P/N)		2

*Item not illustrated

Figure 4-5. Genset Assembly, 60/90kVA (Sheet 4).

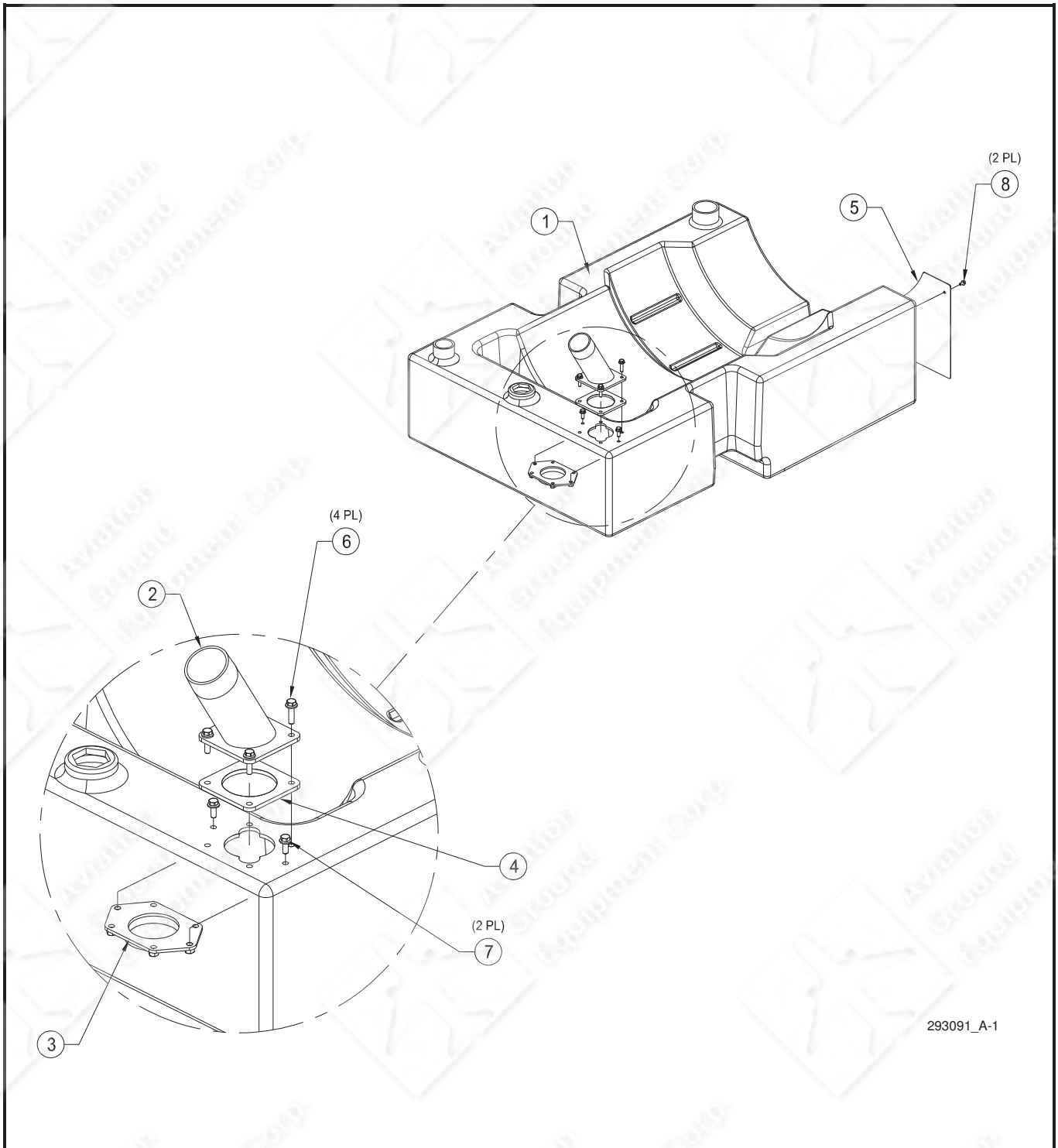
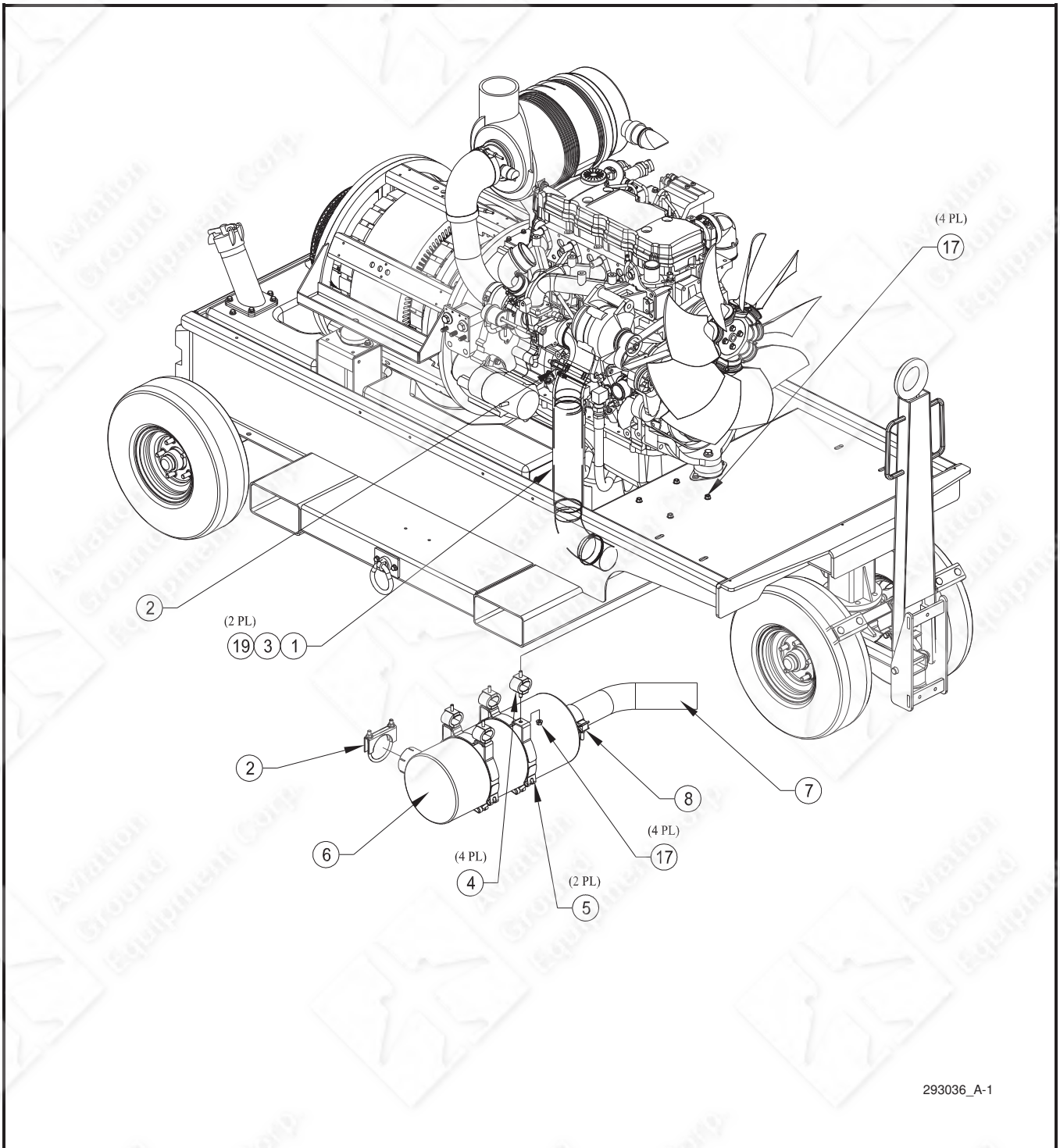


Figure 4-6. Fuel Tank Composite Assembly, CP (Sheet 1 of 2).

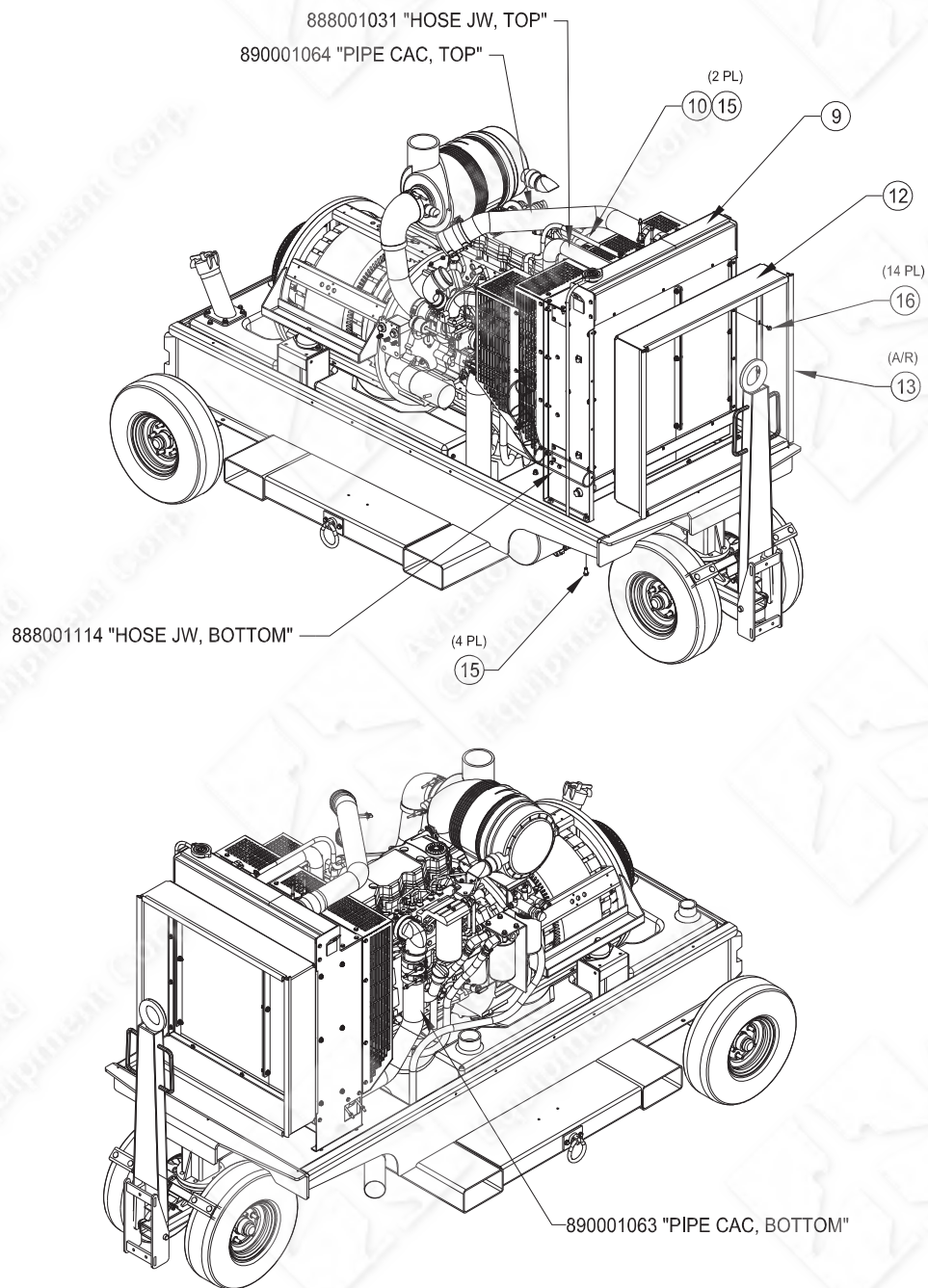
FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-6-	293091	Fuel Tank Assembly Composite, CP		REF
4-6- 1	293090	.Fuel Tank, Machining, Composite, CP		1
4-6- 2	293094	..Fuel Filler Neck, 2-1/2" NPT, Weldment		1
4-6- 3	293092	..Plate, Fuel Neck, Internal		1
4-6- 4	293093	...Gasket, Fuel Neck		1
4-6- 5	293108	..Fuel Tank Heat Shield		1
4-6- 6	No Number	...Hex Flg Bolt, M8-1.25 x 30 lg, GR10.9		4
4-6- 7	No Number	...Hex Flg Bolt, M8-1.25 x 20 lg, GR10.9		2
4-6- 8	No Number	...Hex Flg Bolt, M6-1 x 12 lg, GR10.9		2

Figure 4-6. Fuel Tank Composite Assembly, CP (Sheet 2).



293036_A-1

Figure 4-7. Radiator/Exhaust Installation (Sheet 1 of 3).

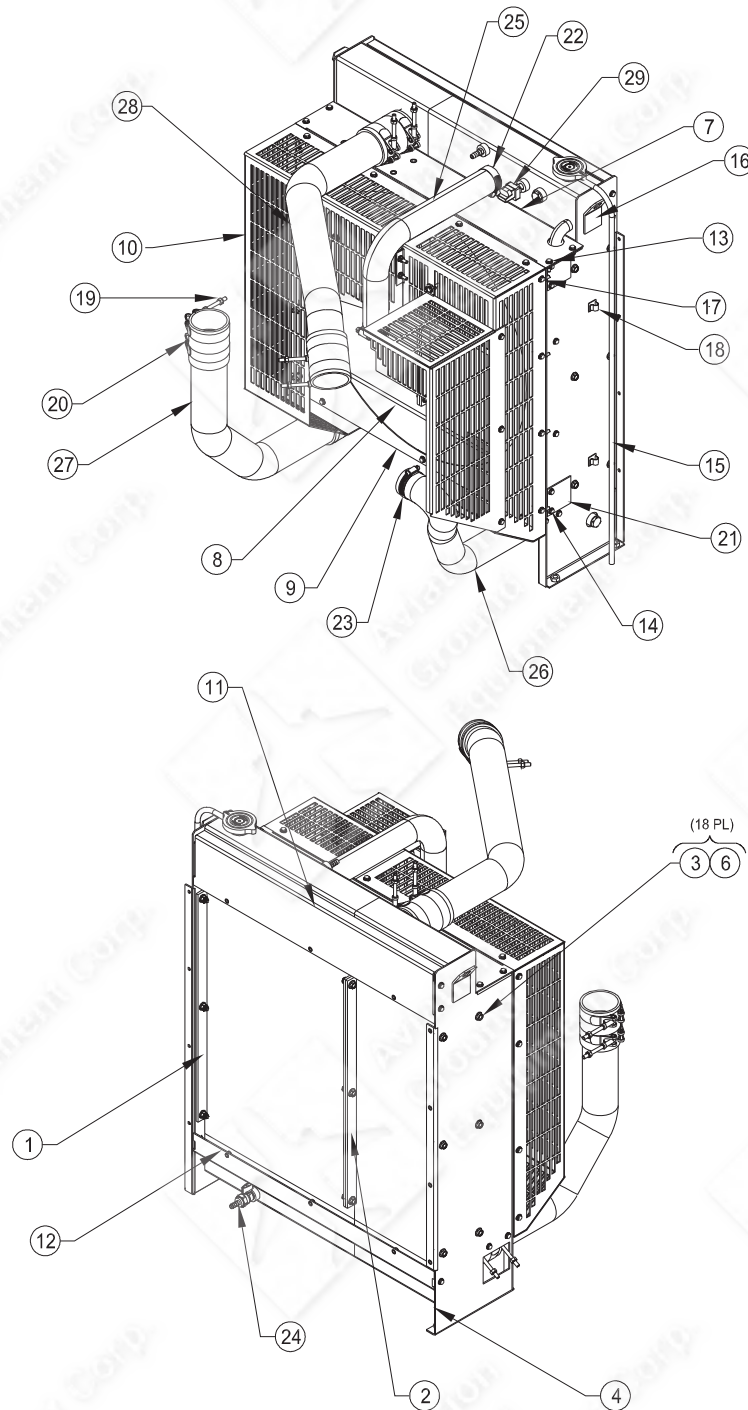


293036_A-2

Figure 4-7. Radiator/Exhaust Installation, 4400 (Sheet 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-7-	293036 Rev-A	Radiator/Exhaust Installation, 4400		REF
4-7- 1	293023	.Muffler Pipe		1
4-7- 2	404154-013	..Guillotine Clamp, 3" Dia		2
4-7- 3	IN11366	.Thermo Jacket		1
4-7- 4	VM11390	..Exhaust Hanger		4
4-7- 5	EB11365	...Muffler Mounting Band, 8.50" Dia		2
4-7- 6	291168	.Muffler		1
4-7- 7	EB11400	.Tail Pipe, 45 Deg 3" OD		1
4-7- 8	288052-002	..Clamp, Accuseal, 3.00 Dia		1
4-7- 9	293069	. Coolpack, 4400 (See Figure 4-8)		1
4-7- 10	056535	..Hose, 3/8" ID X 5/8" OD		1
4-7- 11	Not Shown			
4-7- 12	293009	. Radiator Exhaust Shroud		1
4-7- 13	IN5156	...Bulb Seal, Edge Grip, 3/4" X 27.31" LG		2
4-7- 14	IN5156	...Bulb Seal, Edge Grip, 3/4" X 28.00" LG		2
4-7- 15	No Number	...Hex Flg Bolt, M10-1.5 x 20 lg, GR10.9		4
4-7- 16	No Number	...Hex Flg Bolt, M6-1 x 12 lg, GR10.9		14
4-7- 17	No Number	...Hex Nut W/Spring Washer, M8 x 1.25		8
4-7- 18	WI10869-014	..Clamp, Hose Grip 7/32"- 5/8"		2
4-7- 19	WI10869-016	..Clamp, Hose Grip 2-13/16" - 3-3/4"		2

Figure 4-7. Radiator/Exhaust Installation, 4400 (Sheet 3).

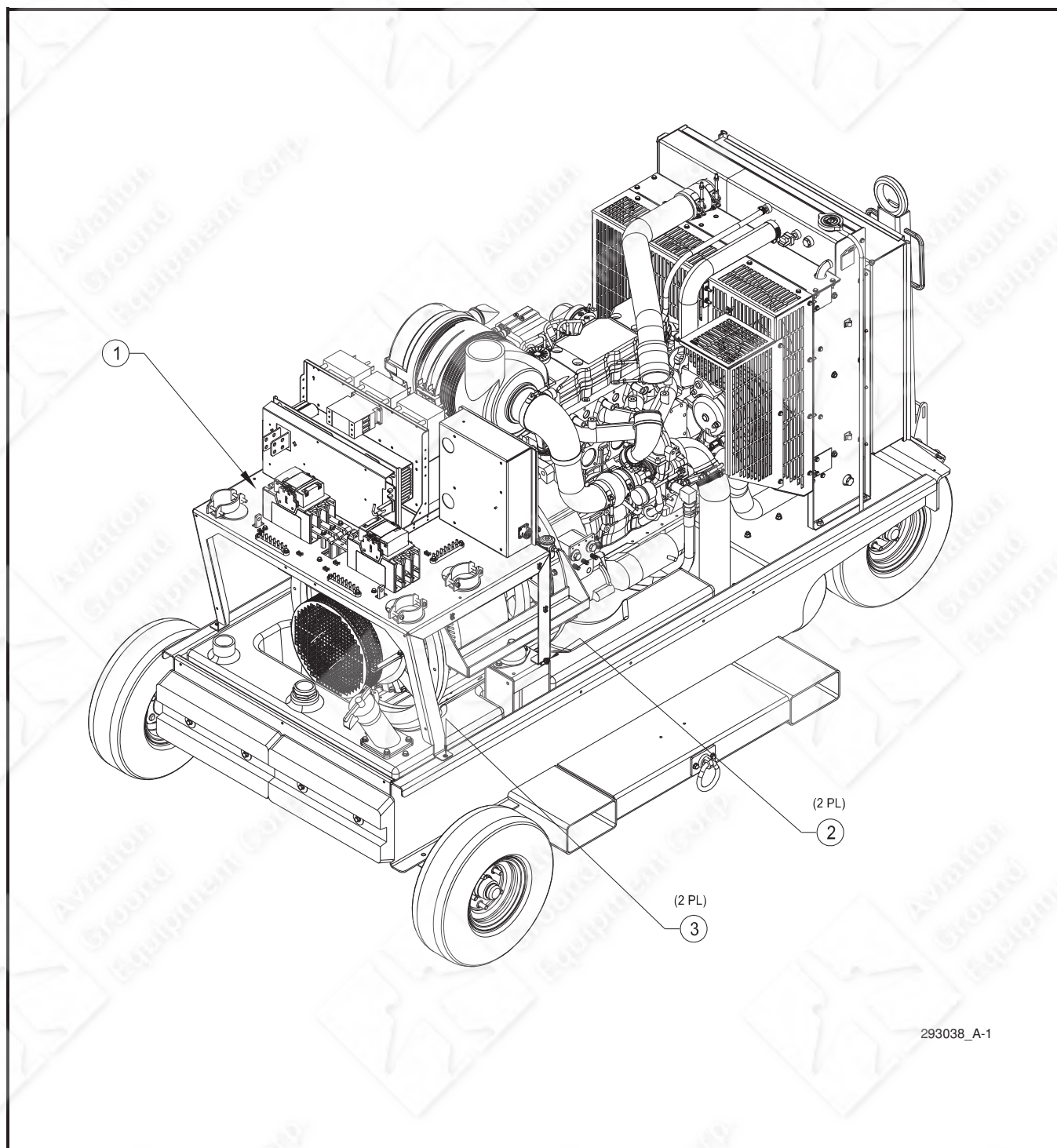


293069_A-1

Figure 4-8. Coolpack (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-8-	293069 Rev-A	Coolpack		REF
4-8- 1	912001205	..JW Slab Assembly		1
4-8- 2	911001072	..CA Slab Assembly		2
4-8- 3	No Number	... Screw, M8-1.25 x 25mm		18
4-8- 4	900001321	..LHS, Frame Assembly		1
4-8- 5	900001452	..RHS, Frame Assembly		1
4-8- 6	No Number	... Nylon Nut, M8		18
4-8- 7	897001225	..Top Cowl Section		1
4-8- 8	897001227	..Bottom, Fan Cowl Section		1
4-8- 9	899001279	..Fan Cowl, Front Section		1
4-8- 10	896001149	..Fan Guard Assembly		1
4-8- 11	812001224	..Front Cover, Top Plate		1
4-8- 12	812001226	..Front Cover, Bottom Plate		1
4-8- 13	No Number	...Hex Serr Flg Screw, M6-1 x 25mm		43
4-8- 14	869001061	...Fill Line Assembly		1
4-8- 15	857001062	...Overflow Hose		1
4-8- 16	812001228	..Lifting Bracket		2
4-8- 17	No Number	... Nylon Nut, M6		8
4-8- 18	812001282	...Vent Line Clip		2
4-8- 19	849001003	...T-Bolt Clamp, 84mm		8
4-8- 20	851001007	Connection Hose, Silicone, 76.2		4
4-8- 21	870001002	..Drain Tap		1
4-8- 22	876001002	...Hose Clamp, Grip 38- 58mm		2
4-8- 23	876001003	...Hose Clamp, Grip 44- 64mm		2
4-8- 24	881001004	...Hosed Barbed, ½" BSP		1
4-8- 25	888001031	..Hose, JW, Top		1
4-8- 26	888001114	..Hose, JW, Bottom		1
4-8- 27	890001063	..Pipe, CAC, Bottom		1
4-8- 28	890001064	..Pipe, CAC, Top		1
4-8- 29	AA6380	...Coolant Sensor Level, 3 Pin		1

Figure 4-8. Coolpack (Sheet 2).



293038_A-1

Figure 4-9. Electrical System Installation, 4400 (Sheet 1 of 3)

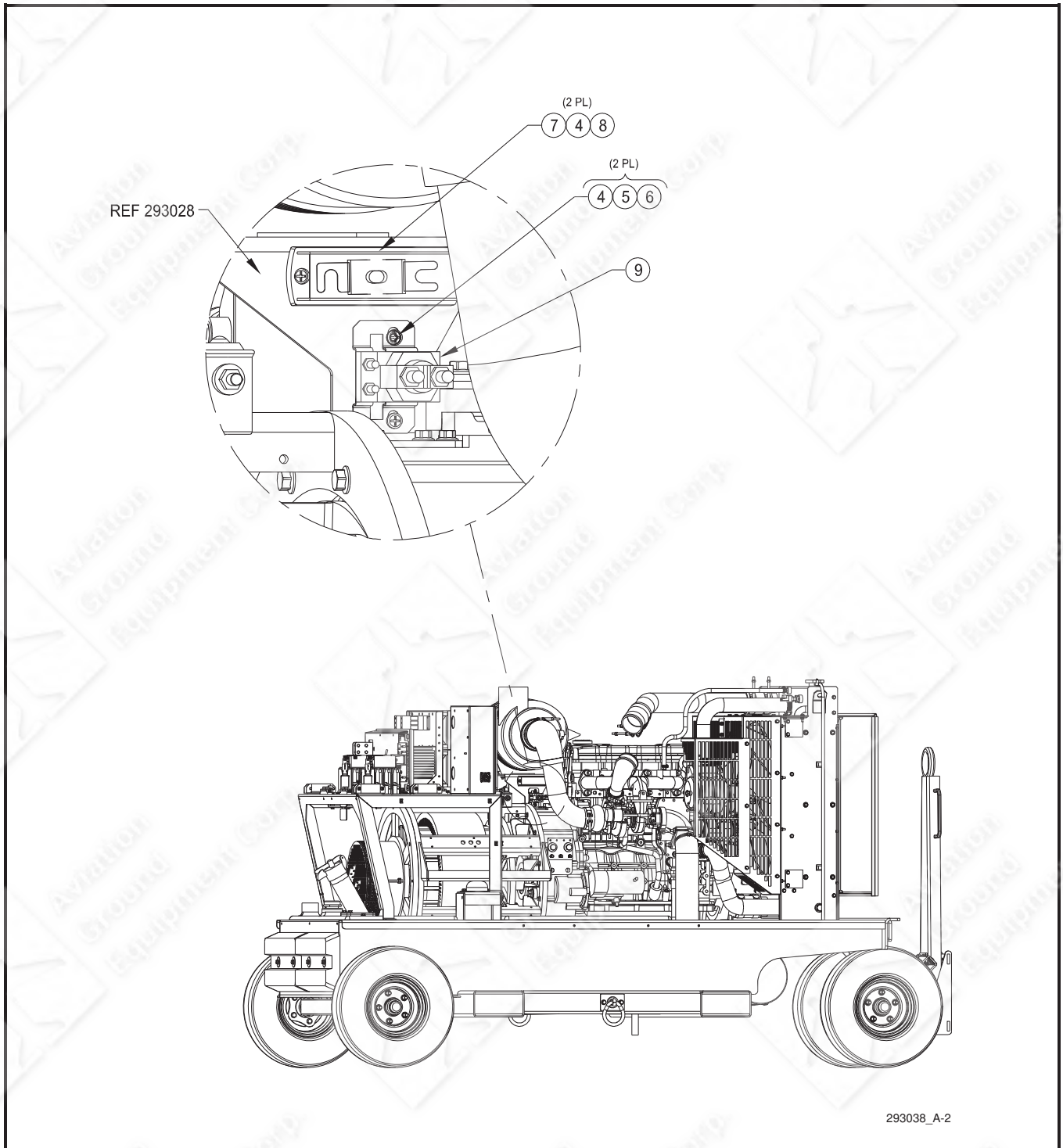
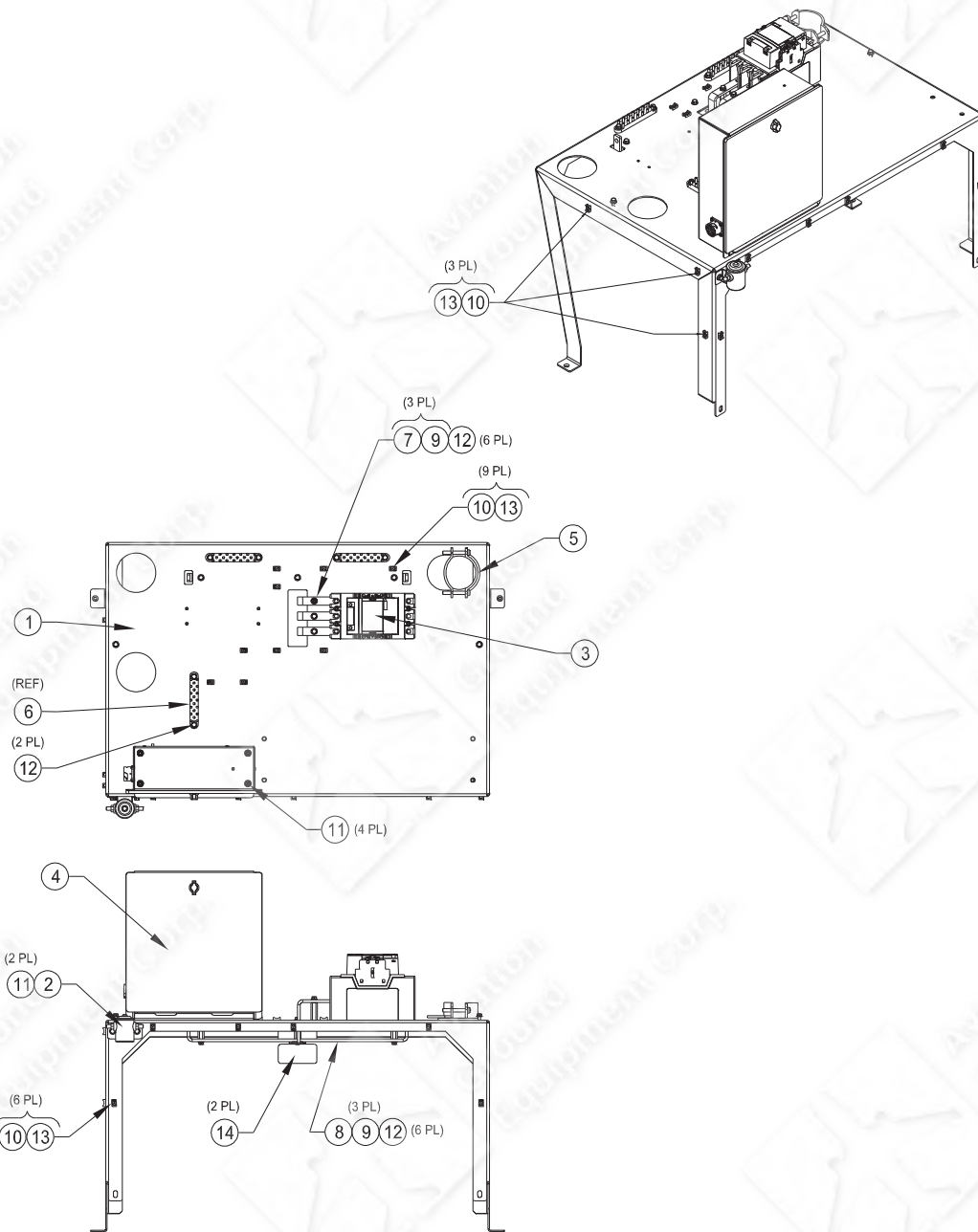


Figure 4-9. Electrical System Installation, 4400 (Sheet 2)

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-9-	293038 Rev-A	Electrical System Installation, 4400		REF
4-9- 1	293039-XX	.Output Table Assembly, 4400 (See Figure 4-10)		1
4-9- 2	No Number	...Hex Flg Bolt, M8-1.25 x 20 lg, GR10.9		2
4-9- 3	No Number	...Phl Flt Hd Screw, M6-1 x 20mm		2
4-9- 4	No Number	...Phl Pan Hd Soc Screw, M5-0.8 x 20mm		4
4-9- 5	No Number	...Flat Washer, M5		2
4-9- 6	No Number	...Split Lk Washer, M5		2
4-9- 7	FH11369	..Fuse Holder		1
4-9- 8	FU11370	..Fuse, Fast Acting		1
4-9- 9	RE11371	..Relay, Grid Power Heater		1
4-9- 10	*293054	..Harness, Exciter/Display		1
4-9- 11	*293059	...Harness, Jumper Kit, Power		1
4-9- 12	*293060	...Harness, Main Chassis		1
4-9- 13	*292083	Schematic, Engine Drive, 4400		REF

*Item not Illustrated

Figure 4-9. Electrical System Installation, 4400 (Sheet 3)



SINGLE OUTPUT, 4400
293039-01 CONFIGURATION

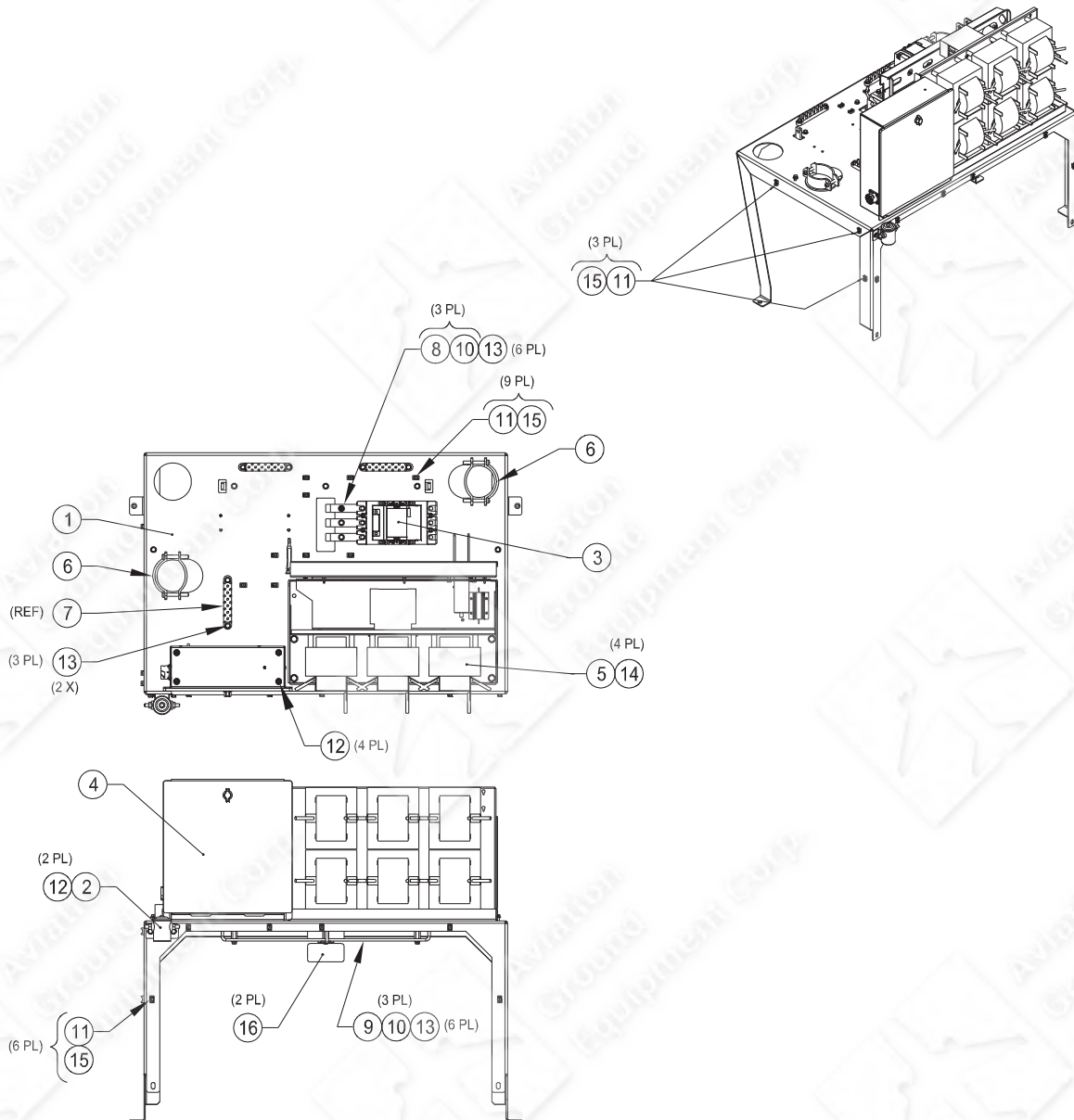
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Figure 4-10. Output Table Assembly, 4400 (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-10-	293039-01 Rev-A	Output Table Assembly, Single Output		REF
4-10- 1	293021	.Output Stand		1
4-10- 2	CA11386	..Contactor, Starter, 24VDC		1
4-10- 3	CA11372	..Contactor, 400Hz		1
4-10- 4	293024	..Control Module Box Assembly (See Figure 4-11)		1
4-10- 5	CY11387	...Strain Relief		1
4-10- 6	C5237-6	...Terminal Block, 6 Pos		REF
4-10- 7	293050	...Busbar, Contactor		3
4-10- 8	293051	...Busbar, Ground		1
4-10- 9	No Number	...Hex Standoff, M6 x 40mm, Nylon		6
4-10- 10	TM-258-MO	Tie-Down, Black		18
4-10- 11	No Number	...Hex Flg Bolt, M6-1 x 12 lg, GR10.9		6
4-10- 12	No Number	...Hex Flg Bolt, M6-1 x 20 lg, GR10.9		20
4-10- 13	No Number	...Flt Hd Hex Soc Screw, M4-16mm		18
4-10- 14	293116	...Finger Guard, Busbar		2
4-10- 15	*293055	Harness, Output Table		1
4-10- 16	*293058	Harness, Options		1
4-10- 17	*292083	Schematic, Engine Drive, 4400		REF

*Item Not Illustrated

Figure 4-10. Output Table Assembly, Single Output, 4400 (Sheet 2).



DUAL OUTPUT , 4400
293039-02 CONFIGURATION

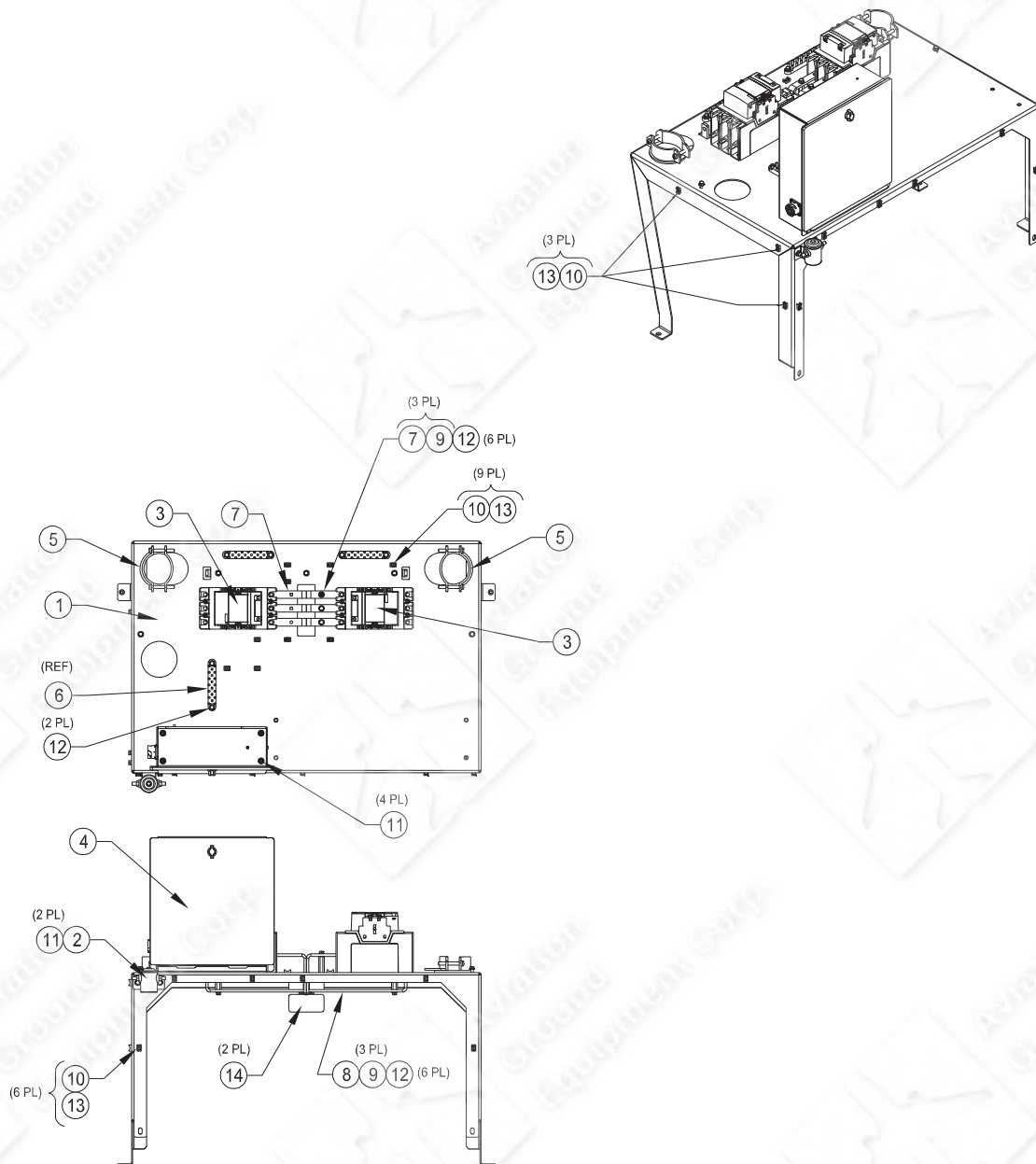
29309XX_A-2

Figure 11. Output Table Assembly, Single Output W/28VDC ARU 4400 (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-11-	293039-02 Rev-A	Output Table Assembly, Single Output W/28VDC ARU, 4400		REF
4-11- 1	293021	..Output Stand		1
4-11- 2	CA11386	..Contactor, Starter, 24VDC		1
4-11- 3	CA11372	..Contactor, 400Hz		1
4-11- 4	293024	..Control Module Box Assembly (See Figure 4-11)		1
4-11- 5	AP-543280	..Rectifier		1
4-11- 6	CY11387	...Strain Relief		1
4-11- 7	C5237-6	...Terminal Block, 6 Pos		REF
4-11- 8	293050	...Busbar, Contactor		3
4-11- 9	293051	...Busbar, Ground		1
4-11- 10	No Number	...Hex Standoff, M6 x 40mm, Nylon		6
4-11- 11	TM-258-MO	Tie-Down, Black		18
4-11- 12	No Number	...Hex Flg Bolt, M6-1 x 12 lg, GR10.9		6
4-11- 13	No Number	...Hex Flg Bolt, M6-1 x 20 lg, GR10.9		20
4-11- 14	No Number	...Hex Flg Bolt, M8-1.25 x 20 lg, GR10.9		4
4-11- 15	No Number	...Flt Hd Hex Soc Screw, M4-16mm		18
4-11- 16	293116	...Finger Guard, Busbar		2
4-11- 17	*293055	Harness, Output Table		1
4-11- 18	*293058	Harness, Options		1
4-11- 19	*292083	Schematic, Engine Drive, 4400		REF
4-11- 20	*293074	Cable Assembly, ARU		1

* Item Not Illustrated

Figure 4-11. Output Table Assembly, Single Output W/28VDC ARU (Sheet 2).



DUAL OUTPUT , 4400
293039-03 CONFIGURATION

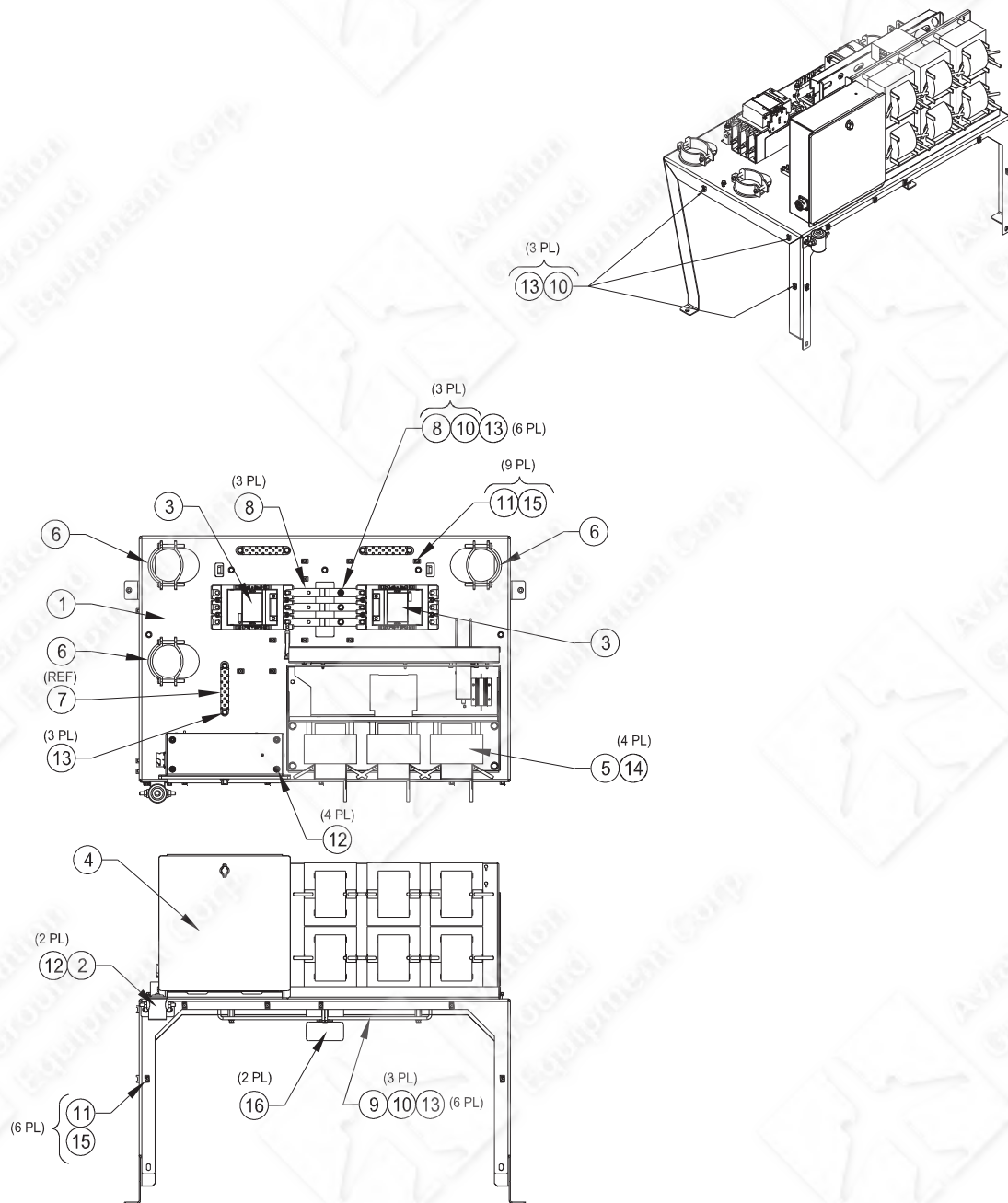
29309XX_A-3

Figure 12. Output Table Assembly, Dual Output, 4400 (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-12-	293039-03 Rev-A	Output Table Assembly, Dual Output		REF
4-12- 1	293021	.Output Stand		1
4-12- 2	CA11386	..Contactor, Starter, 24VDC		1
4-12- 3	CA11372	..Contactor, 400Hz		1
4-12- 4	293024	..Control Module Box Assembly (See Figure 4-11)		1
4-12- 5	CY11387	...Strain Relief		2
4-12- 6	C5237-6	...Terminal Block, 6 Pos		REF
4-12- 7	293050	...Busbar, Contactor		3
4-12- 8	293051	...Busbar, Ground		1
4-12- 9	No Number	...Hex Standoff, M6 x 40mm, Nylon		6
4-12- 10	TM-258-MO	Tie-Down, Black		18
4-12- 11	No Number	...Hex Flg Bolt, M6-1 x 12 lg, GR10.9		9
4-12- 12	No Number	...Hex Flg Bolt, M6-1 x 20 lg, GR10.9		20
4-12- 13	No Number	...Flt Hd Hex Soc Screw, M4-16mm		18
4-12- 14	293116	...Finger Guard, Busbar		2
4-12- 15	*293055	Harness, Output Table		1
4-12- 16	*293058	Harness, Options		1
4-12- 17	*292083	Schematic, Engine Drive, 4400		REF

* Item Not Illustrated

Figure 4-12. Output Table Assembly, Dual Output, 4400 (Sheet 2).



DUAL OUTPUT WITH 28VDC ARU, 4400
293039-04 CONFIGURATION

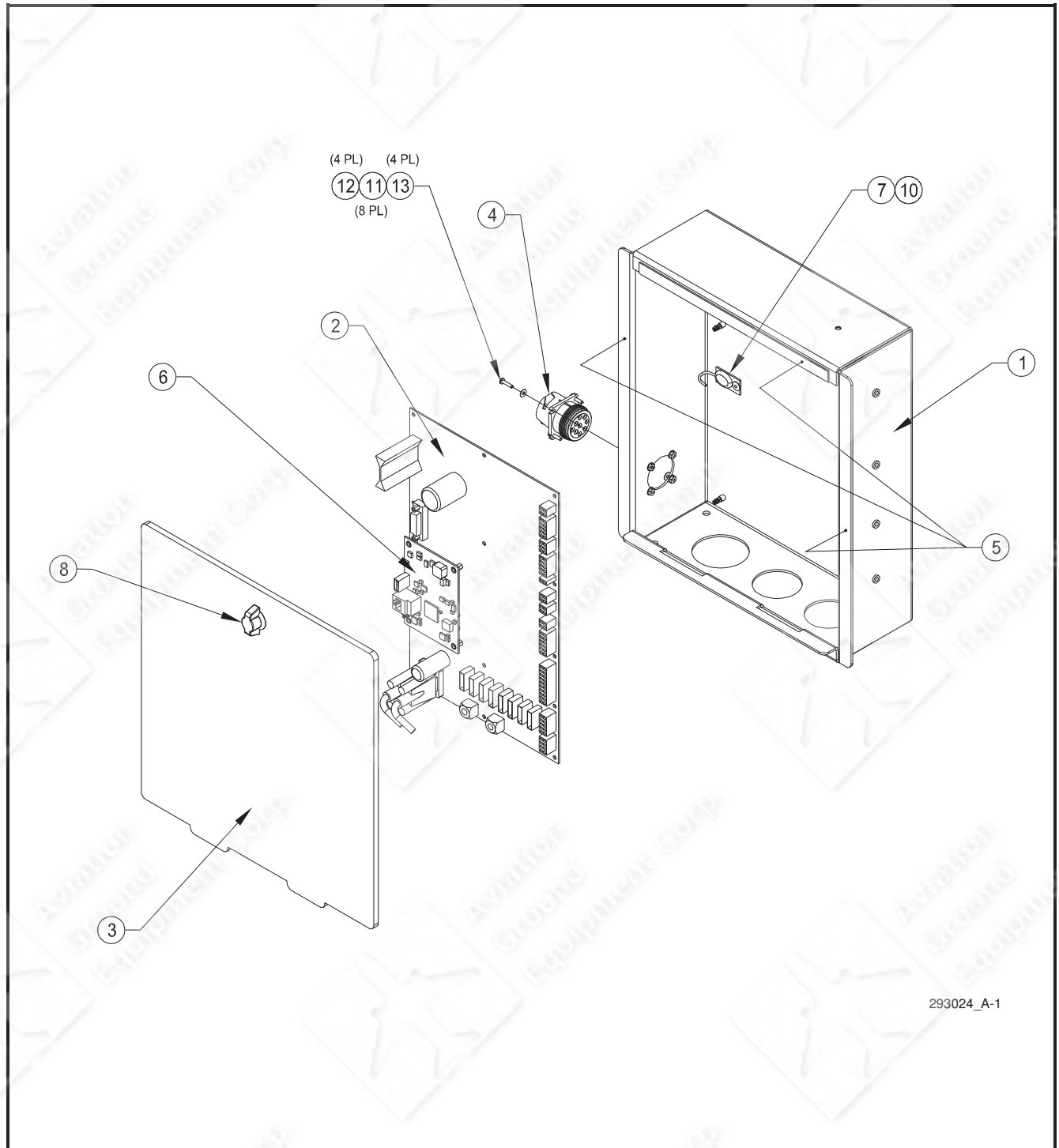
29309XX_A-4

Figure 4-13. Output Table Assembly, Dual Output W/28VDC ARU, 4400 (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-13-	293039-04 Rev-A	Output Table Assembly, Dual Output W/28VDC ARU, 4400		REF
4-13- 1	293021	..Output Stand		1
4-13- 2	CA11386	..Contactor, Starter, 24VDC		1
4-13- 3	CA11372	..Contactor, 400Hz		1
4-13- 4	293024	..Control Module Box Assembly (See Figure 4-11)		1
4-13- 5	AP-543280	..Rectifier	B	1
4-13- 6	CY11387	...Strain Relief		3
4-13- 7	C5237-6	...Terminal Block, 6 Pos		REF
4-13- 8	293050	...Busbar, Contactor		6
4-13- 9	293051	...Busbar, Ground		1
4-13- 10	No Number	...Hex Standoff, M6 x 40mm, Nylon		6
4-13- 11	TM-258-MO	Tie-Down, Black		18
4-13- 12	No Number	...Hex Flg Bolt, M6-1 x 12 lg, GR10.9		6
4-13- 13	No Number	...Hex Flg Bolt, M6-1 x 20 lg, GR10.9		20
4-13- 14	No Number	...Hex Flg Bolt, M8-1.25 x 20 lg, GR10.9		4
4-13- 15	No Number	...Flt Hd Hex Soc Screw, M4-16mm		18
4-13- 16	293116	...Finger Guard, Busbar		2
4-13- 17	*293055	Harness, Output Table		1
4-13- 18	*293058	Harness, Options		1
4-13- 19	*293145	Schematic, Engine Drive, 4400		REF
4-13- 20	*293074	Cable Assembly, ARU	B	1

* Item Not Illustrated

Figure 4-13. Output Table Assembly, Dual Output W/28VDC ARU, (Sheet 2).



293024_A-1

Figure 4-14. Control Module Box Assembly (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-14-	293024 Rev-A	Control Module Box Assembly		REF
4-14- 1	293025	.Control Box		1
4-14- 2	579534	..Diesel Interface Board		1
4-14- 3	293026	..Control Box Cover		1
4-14- 4	293056	...Cummins Dongle Harness		1
4-14- 5	IN5066	...Closed Cell Sponge with Adhesive, 1/2" X 1/8"		A/R
4-14- 6	579526	..Control Board		1
4-14- 7	759533	..EEPROM Board		1
4-14- 8	288023	...Knob Wing Latch		1
4-14- 9	292083	.Engine Drive Schematic		REF
4-14- 10	No Number	..Pop Rivet, 3/16 Dia, (1/8-1/4 Grip)		1
4-14- 11	No Number	...Flt Washer-sm #4		8
4-14- 12	No Number	...Locknut-Nylon, #4-40, SS		4
4-14- 13	No Number	...Screw, PH Pan Hd, #4-40 x 1/2", M/S		4

* Item Not Illustrated

Figure 4-14. Control Module Box Assembly (Sheet 2).

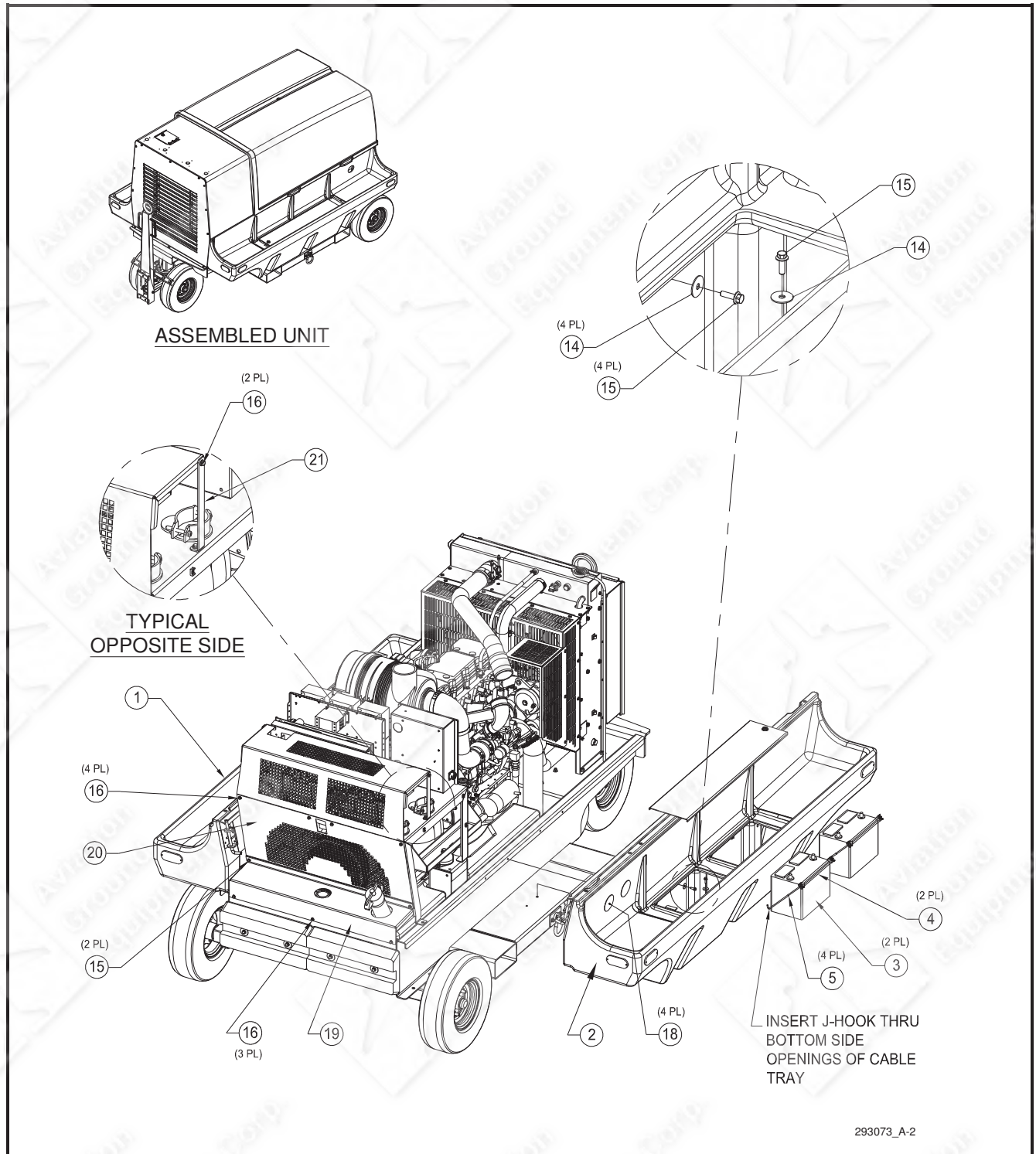
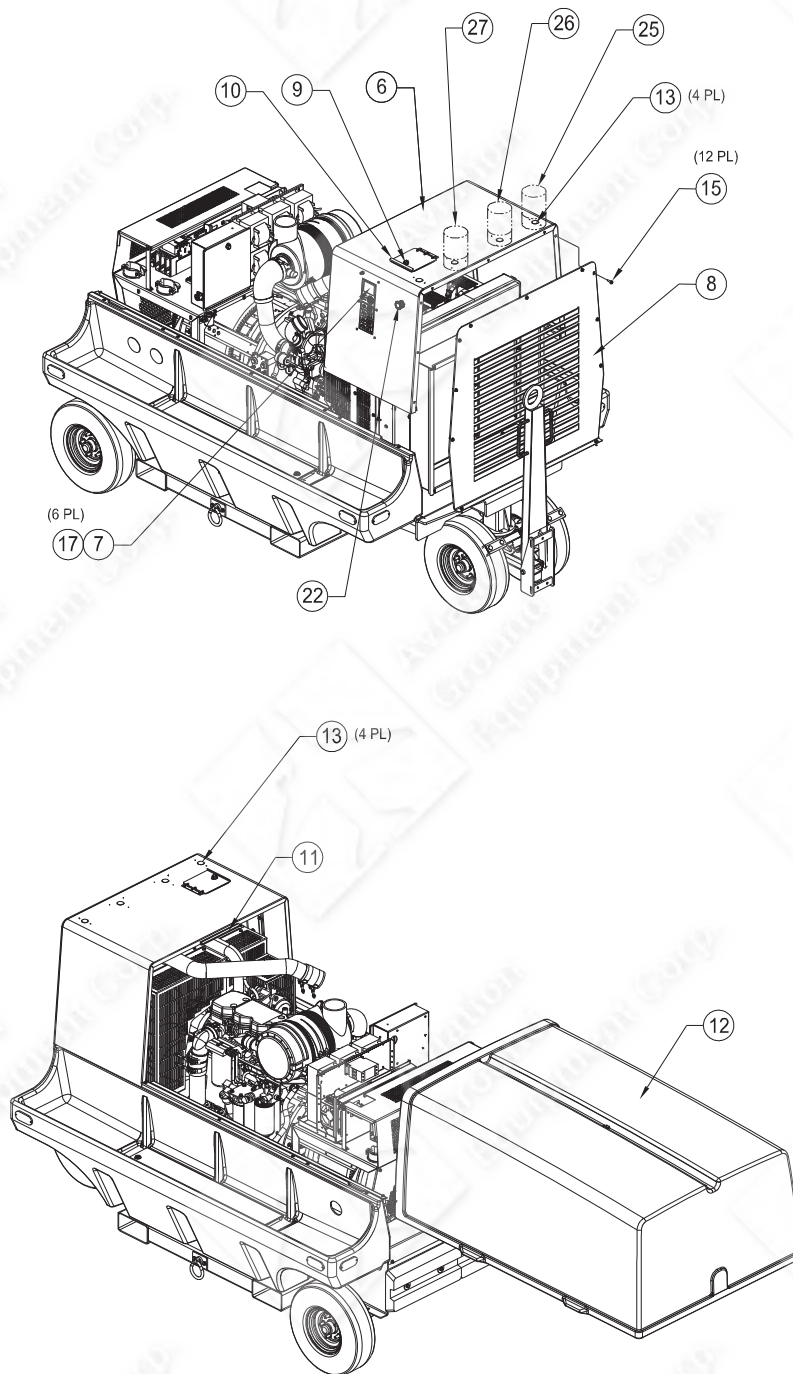


Figure 4-15. Cable Tray/Canopy Installation, 4400



293073_A-4

Figure 4-15. Cable Tray/Canopy Installation, 4400 (Sheet 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-15-	293073	Cable Tray/Canopy Installation, 4400		REF
4-15- 1	293086	..Cable Tray Assembly, Left Side (See Figure 4-16)		1
4-15- 2	293087	..Cable Tray Assembly, Right Side (See Figure 4-17)		1
4-15- 3	281881-001	..Battery, 12V		2
4-15- 4	293008	...Battery Retainer		2
4-15- 5	494295	...Battery Hold Down, J-Hook		4
4-15- 6	293047	..Front Canopy		1
4-15- 7	293017	..Display Controller Assembly, 4400 (See Figure 4-18)		1
4-15- 8	293048	..Front Panel, Radiator Exhaust		1
4-15- 9	288023	...Wing Knob Latch		1
4-15- 10	IN5066	...Closed Cell Sponge W/Adhesive, 1/2" X 1/8"		A/R
4-15- 11	IN5150	...Edge Grip Rubber Seal		1
4-15- 12	293084	.. Top Canopy, Composite, Assy (See Figure 4-19)		1
4-15- 13	FI11406	...Hole Plug, 1-1/8" OD, Nylon		4
4-14- 14	No Number	...Snubbing Washer		10
4-15- 15	No Number	...Hex Flg Bolt, M6-1 x 20 lg, GR10.9		26
4-15- 16	No Number	...Hex Flg Bolt, M6-1 x 12 lg, GR10.9		9
4-15- 17	No Number	...Hex Nut W/Spring Washer, M6 x 1.0		6
4-15- 18	287698-001	...Hole Plug, Plastic, 3" Dia		4
4-15- 19	293081	..Panel, Fuel Filler Cover		1
4-15- 20	293122	...Rear Panel, Contactors Guard		1
4-15- 21	293121	...Stiffener, Contactors Guard		2
4-15- 22	*293057	Harness, E-Stop		1
4-15- 23	*293071	Harness, Battery Cable Kit		1
4-15- 24	*292083	Schematic, Engine Drive, 4400		REF
4-15- 25		Clearance Lights (Optional)		4
4-15- 26		Low Fuel Beacon (Optional)		1
4-15- 27		Operating Beacon (Optional)		1

Figure 4-15. Cable Tray/Canopy Installation, 4400 (Sheet 3).

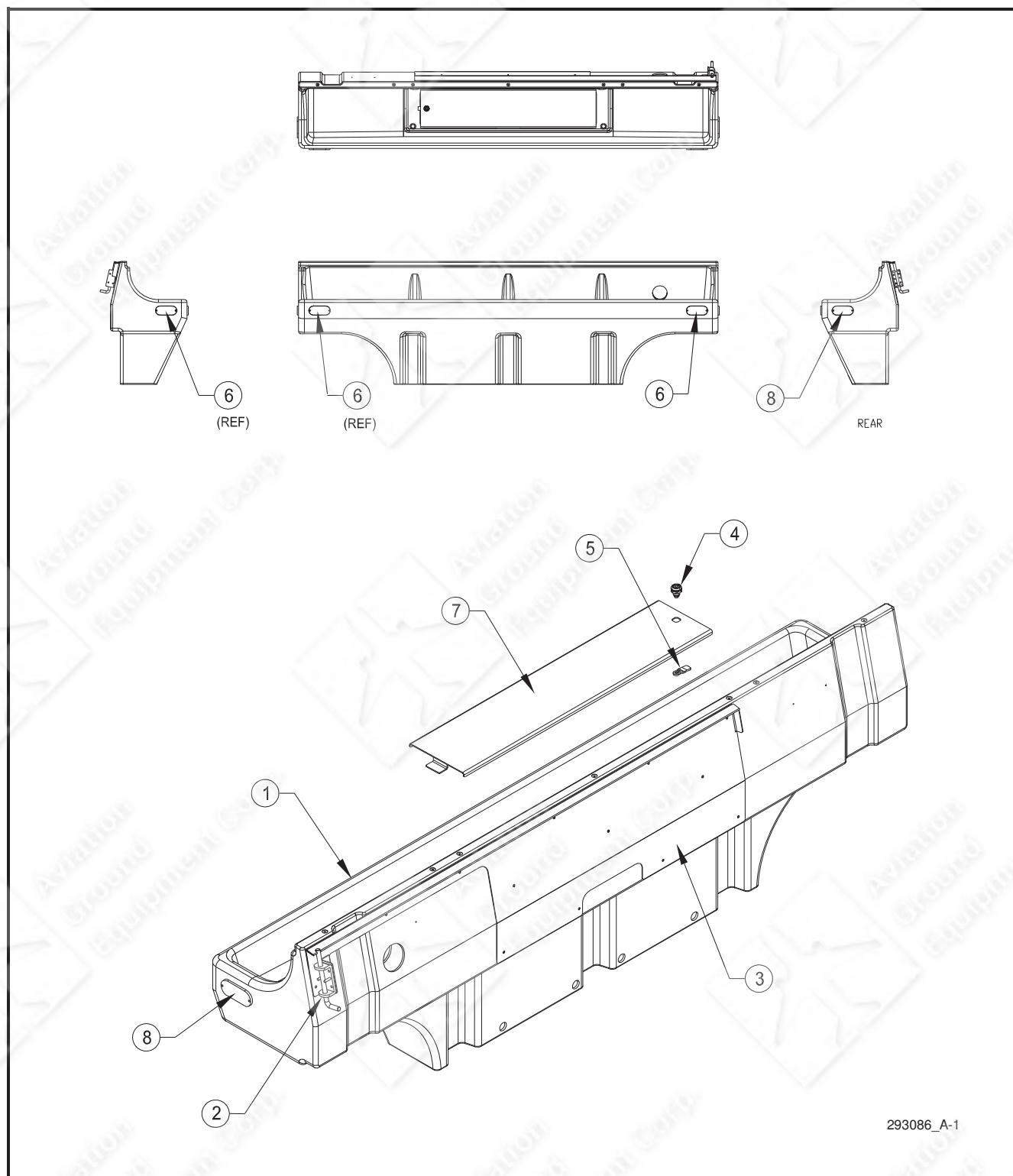


Figure 4-16. Cable Tray Assembly, Left Side (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-16-	293086 Rev-A	Cable Tray, Assembly, Left Side		REF
4-16- 1	293085-01	.Cable Tray, Machining, Left Side		1
4-16- 2	KH11401	..Compression Latch		1
4-16- 3	293077-01	..Heat Shield, Cable Tray		1
4-16- 4	KH11192	...Cam Latch, Hex Head 8-32; NEMA 4		1
4-16- 5	KH11191	...Cam Grip Latch		1
4-16- 6	IL11391	..Reflector, Amber, Oblong		3
4-16- 7	293013	..Battery Cover		1
4-16- 8	IL11392	..Reflector, Red, Oblong		1

Figure 4-16. Cable Tray Assembly, Left Side (Sheet 2).

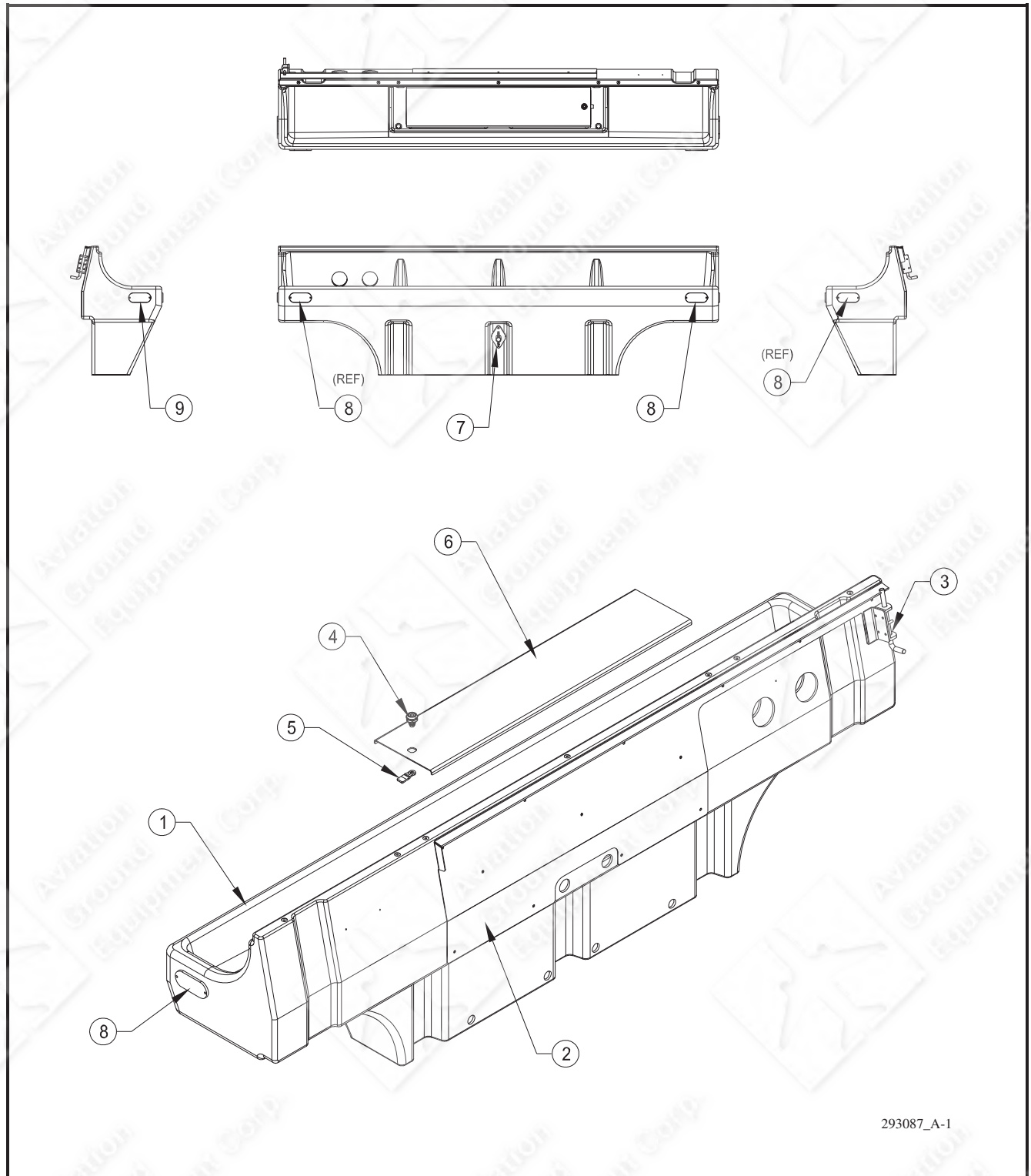


Figure 4-17. Cable Tray Assembly, Right Side (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-17-	293087 Rev-B	Cable Tray Assembly, Right Side		REF
4-17- 1	293085-02	.Cable Tray, Machining, Left Side		1
4-17- 2	293077-02	..Heat Shield, Cable Tray		1
4-17- 3	KH11401	...Compression Latch		1
4-17- 4	KH11192	...Cam Latch, Hex Head 8-32; NEMA 4		1
4-17- 5	KH11191	...Cam Grip Latch		1
4-17- 6	293013	..Battery Cover		1
4-17- 7	291611	...Battery Switch Disconnect		1
4-17- 8	IL11391	..Reflector, Amber, Oblong		3
4-17- 9	IL11392	..Reflector, Red, Oblong		1

Figure 4-17. Cable Tray Assembly, Right Side (Sheet 2).

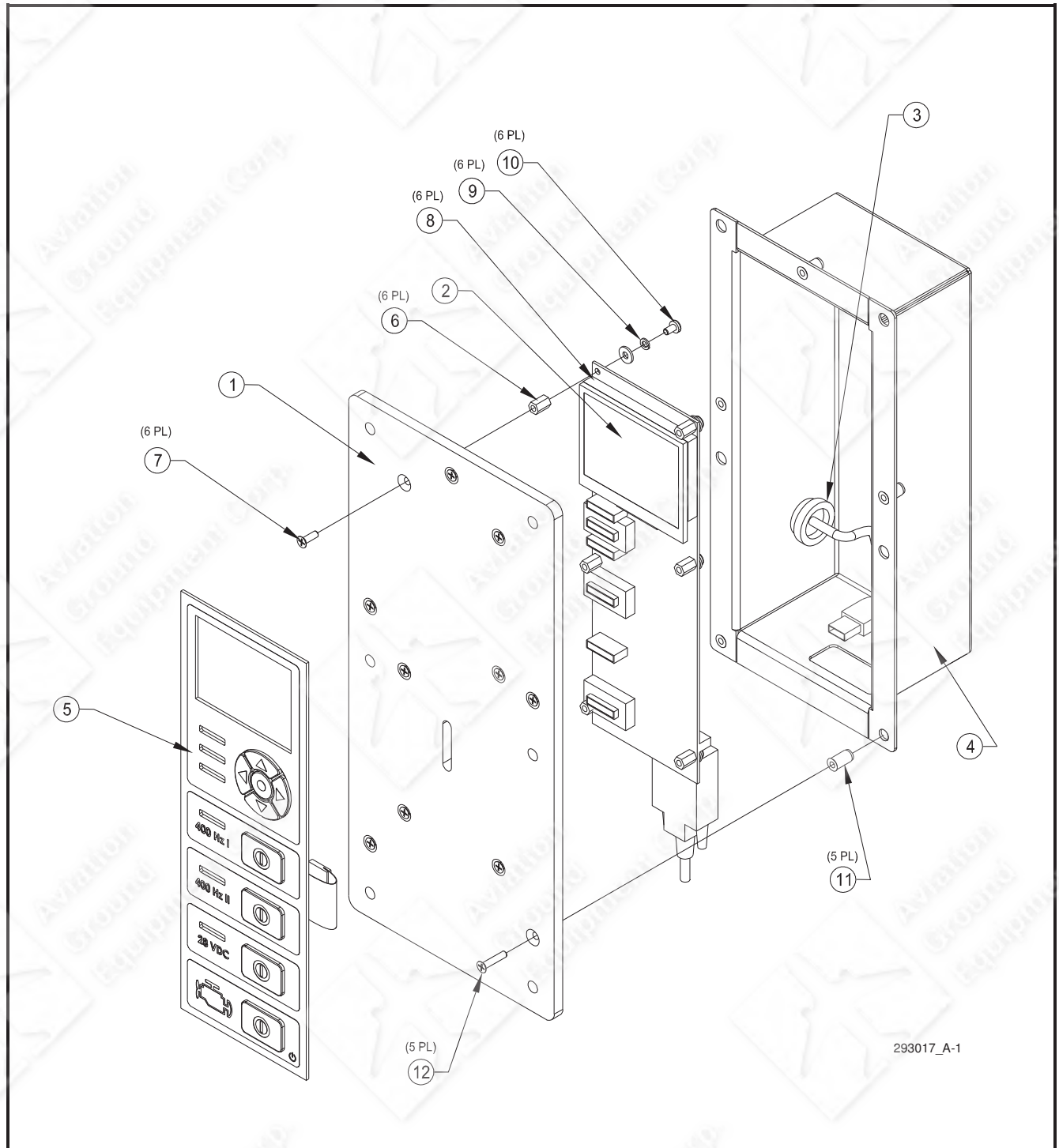
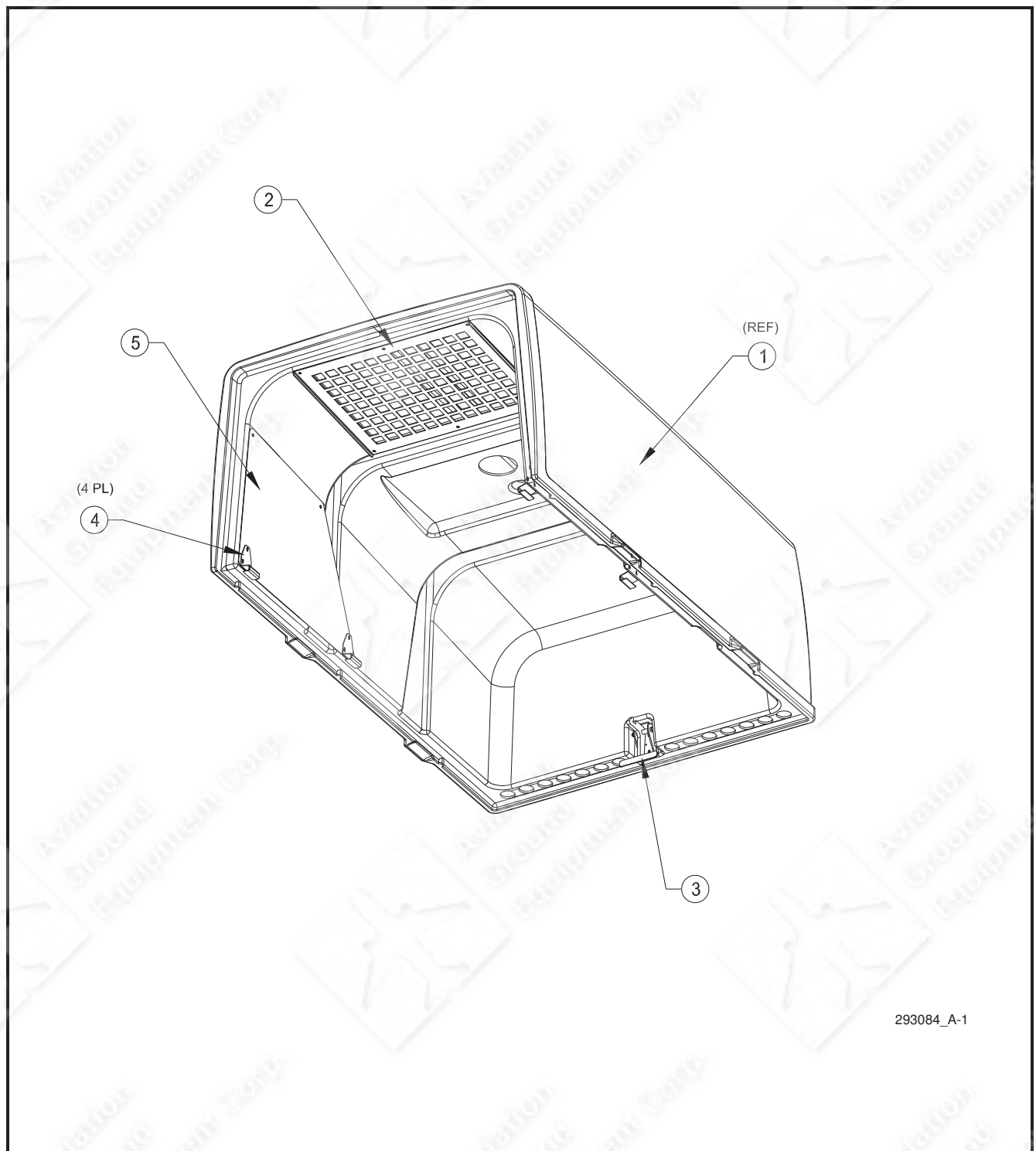


Figure 4-18. Display Controller Assembly, 4400 (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-18-	293017 Rev-A	Display Controller Assembly, 4400		REF
4-18- 1	293015	..Glastic Display Panel		1
4-18- 2	579536	..Display Board		1
4-18- 3	CO11373	..USB. Extension		1
4-18- 4	293016	..Display Box		1
4-18- 5	275193	...Membrane, Dual 400Hz & 28VDC		REF
	5 293105	...Membrane,		REF
	5 293095	...Membrane,		REF
	5 203096	...Membrane,		REF
	5 293097	...Membrane,		REF
4-18- 6	No Number	...Hex Standoff, #6-32 x 1/4 x 3/8" L, F/F		6
4-18- 7	No Number	...Ph Flt Hd Screw, #6-32 x 3/8", M/S 100 Deg.		6
4-18- 8	No Number	...Washer, Flat, #6, lg		6
4-18- 9	No Number	...Washer, Split Lk, #6, Med, SS		6
4-18- 10	No Number	...Ph Pan Hd Screw, #6-32 x 1/4, M/S		6
4-18- 11	No Number	...Insert, #6-32, .080-.130 Grip, STL		5
4-18- 12	No Number	...Phl Flt Hd Screw, #6-32 x 5/8", M/S 100 Deg		5

Figure 4-18. Display Controller Assembly (Sheet 2).



293084_A-1

Figure 4-19. Top Canopy, Composite, Assembly (Sheet 1 of 2).

FIGURE - ITEM NO.	ITW GSE PART NO.	NOMENCLATURE	EFF.	QTY.
4-19-	286810-001 Rev-A	Top Canopy, Composite, Assembly		REF
4-19- 1	293083	.Top Canopy Composite, Machining		1
4-19- 2	293020	..Panel, Top Grid		1
4-19- 3	293078	...Latch Assembly, Top Canopy		1
4-19- 4	293018	...Hook Slide, Main Canopy		4
4-19- 5	293019	..Heat Shield, Side, Top Canopy		1

Figure 4-19. Top Canopy, Composite Assembly (Sheet 1 of 2).

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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.
4-2-2	0-B1097	4-5-16	FS9841
4-2-6	IN11393	4-5-17	LF9212
4-3-5	TA11411	4-5-18	CY11362
4-4-	293034-XX	4-5-19	EB11361
4-4-3	FI11399	4-5-20	FI11363
4-4-5	FI5182	4-5-21	AH11364
4-4-6	FI0074	4-5-28	EC11368
4-4-9	IL11359	4-5-31	EC11378
4-4-10	EB11367	4-5-32	EC11379
4-4-13	SRI377	4-7-3	IN11366
4-5-	293027-XX	4-7-4	VM11390
4-5-2	FB11360	4-7-5	EB11365
4-5-5	VM11349	4-7-7	EB11400

FIGURE ITEM NO.	ITW GSE PART NO.	FIGURE ITEM NO.	ITW GSE PART NO.
4-7-13	IN5156	4-12-3	CA11372
4-7-14	IN5156	4-12-5	CY11387
4-8-29	AA6380	4-12-10	TM-258-MO
4-9-1	293039-XX	4-13-2	CA11386
4-9-7	FH11369	4-13-3	CA11372
4-9-8	FU11370	4-13-6	CY11387
4-9-9	RE11371	4-13-11	TM-258-MO
14-10-2	CA11386	4-14-5	IN5066
4-10-3	CA11372	4-15-10	IN5066
4-10-5	CY11387	4-15-11	IN5150
4-10-10	M-258-MO	4-15-13	FI11406
4-11-2	CA11386	4-16-2	KH11401
4-11-3	CA11372	4-16-4	KH11192
4-11-6	CY11387	4-16-5	KH11191
4-11-11	TM-258-MO	4-16-6	IL11391
4-12-2	CA11386	4-16-8	IL11392

FIGURE ITEM NO.	ITW GSE PART NO.	FIGURE ITEM NO.	ITW GSE PART NO.
4-17-3	KH11401	4-4-11	056525
4-17-4	KH11192	4-7-10	056535
4-17-5	H11191	4-3-	93003
4-17-8	IL11391	4-10-1	93021
4-17-9	IL11392	4-11-8	93050
4-18-3	CO11373	4-5-27	93052
4-11-5	AP-543280	4-15-22	93057
4-13-5	AP-543280	4-6-4	93093
4-2-3	80B-1167	4-4-12	203027-01
4-7-19	WI10869-016	4-18-5	203096
4-7-18	WI10869-014	4-18-5	275193
4-10-6	C5237-6	4-15-3	281881-001
4-11-7	C5237-6	4-5-26	282918
4-12-6	C5237-6	4-19-	286810-001
4-13-7	C5237-6	4-19-	286810-001
4-1	4400	4-15-18	287698-001

FIGURE ITEM NO.	ITW GSE PART NO.
4-14-8	288023
4-15-9	288023
4-7-8	288052-002
4-3-4	288455
4-5-4	288460-004
4-5-24	290597-007
4-5-25	290597-006
4-5-23	290597-001
4-7-6	291168
4-17-7	291611
4-9-13	292083
4-10-17	292083
4-11-19	292083
4-12-17	292083
4-14-9	292083
4-15-24	292083

FIGURE ITEM NO.	ITW GSE PART NO.
4-3-1	293003-5th
4-1-1	293001
4-2-	293001
4-4-1	293001
4-2-1	293002
4-2-4	293003
4-3-2	293003
4-5-3	293004
4-15-4	293008
4-7-12	293009
4-16-7	293013
4-17-6	293013
4-18-1	293015
4-18-4	293016
4-15-7	293017
4-18-	293017

FIGURE ITEM NO.	ITW GSE PART NO.
4-19-4	293018
4-19-4	293018
4-19-5	293019
4-19-5	293019
4-11-1	293021
4-12-1	293021
4-13-1	293021
4-7-1	293023
4-10-4	293024
4-11-4	293024
4-12-4	293024
4-13-4	293024
4-14-	293024
4-4-2	293027-02
4-14-1	293025
4-14-3	293026

FIGURE ITEM NO.	ITW GSE PART NO.
4-5-15	293028
4-5-22	293031
4-1-2	293034
4-13-	293039-04
4-1-3	293036
4-7-	293036
4-12-	293039-03
4-11-	293039-02
4-1-4	293038
4-9-	293038
4-10-	293039-01
4-15-6	293047
4-15-8	293048
4-10-7	293050
4-12-7	293050
4-13-8	293050

FIGURE ITEM NO.	ITW GSE PART NO.	FIGURE ITEM NO.	ITW GSE PART NO.
4-10-8	293051	4-5-1	293061
4-11-9	293051	4-3-3	293067
4-12-8	293051	4-7-9	293069
4-13-9	293051	4-8-	293069
4-9-10	293054	4-15-23	293071
4-10-15	293055	4-1-5	293073
4-11-17	293055	4-15-	293073
4-12-15	293055	4-11-20	293074
4-13-17	293055	4-13-20	293074
4-14-4	293056	4-17-2	293077-02
4-10-16	293058	4-16-3	293077-01
4-11-18	293058	4-19-3	293078
4-12-16	293058	4-19-3	293078
4-13-18	293058	4-4-4	293080
4-9-11	293059	4-15-19	293081
4-9-12	293060	4-17-1	293085-02

FIGURE ITEM NO.	ITW GSE PART NO.
4-19-1	293083
4-19-1	293083
4-15-12	293084
4-16-1	293085-01
4-15-1	293086
4-16-	293086
4-15-2	293087
4-17-	293087
4-6-1	293090
4-4-8	293091
4-6-	293091
4-6-3	293092
4-6-2	293094
4-18-5	293095
4-18-5	293097
4-18-5	293105

FIGURE ITEM NO.	ITW GSE PART NO.
4-6-5	293108
4-10-14	293116
4-11-16	293116
4-12-14	293116
4-13-16	293116
4-15-21	293121
4-15-20	293122
4-5-1	293126
4-13-19	293145
4-4-6	293148
4-7-2	404154-013
4-15-5	494295
4-14-6	579526
4-14-2	579534
4-18-2	579536
4-14-7	759533

FIGURE ITEM NO.	ITW GSE PART NO.	FIGURE ITEM NO.	ITW GSE PART NO.
4-5-33	863948	4-5-48	5312158
4-5-39	963983	4-5-49	5318807
4-5-34	3864036	4-8-18	12001282
4-5-35	3864172	4-8-11	812001224
4-5-36	3903652	4-8-12	812001226
4-5-37	3910131	4-8-16	812001228
4-5-38	3937736	4-8-19	849001003
4-5-30	3964337	4-8-20	851001007
4-5-40	3964337	4-8-15	857001062
4-5-41	3974812	4-8-14	869001061
4-5-29	4894721	4-8-21	870001002
4-5-43	4894721	4-8-22	876001002
4-5-44	4928800	4-8-23	876001003
4-5-45	4995590	4-8-24	881001004
4-5-46	5259795	4-8-25	888001031
4-5-47	5288530	4-8-26	888001114

FIGURE ITEM NO.	ITW GSE PART NO.
4-8-27	890001063
4-8-28	890001064
4-8-10	896001149
4-8-7	897001225
4-8-8	897001227
4-8-9	899001279
4-8-4	900001321
4-8-5	900001452
4-8-2	911001072
4-8-1	912001205

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