



Maintenance and Replacement

Parts Guide

for



- I Idle
- M Mitigation
- P Power
- A Automation
- C Control

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Section 1: Introduction

Section 1.1 Description of Document

This document is intended to define preventive maintenance procedures for the ZeroRPM IMPAC system, as well as to provide part numbers for ordering components from ZeroRPM in the event a part must be replaced.

When a part number listed in this document is requested for shipment, the part number ordered **may differ** from the part number in this document due to packaging, additional materials, and/or documentation (if applicable).

Section 1.2 Definitions of Signal Words and Symbols



This indicates a hazard that, if not avoided, **will** result in death or serious injury.



This indicates a hazard that, if not avoided, **could** result in death or serious injury.



This indicates a hazard that, if not avoided, could result in minor or moderate injury.



This indicates important information that is not related to hazards.

For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 2: Preventive Maintenance

To ensure proper safety and performance, the ZeroRPM IMPAC system must undergo the following preventive maintenance procedures:

Item Number	Preventive Maintenance Procedure	Frequency
1	Plug the vehicle into shore power and charge the ZeroRPM batteries to 100% to ensure the Battery Management System (BMS) remains calibrated properly and to maximize the longevity of the battery pack.	<ul style="list-style-type: none">• Weekly (Recommended)• Once per Chassis PM Cycle (Required)
2	Follow your facility's preventive maintenance guidelines to ensure no connections have loosened and no rub/pinch points have developed since the last maintenance cycle.	<ul style="list-style-type: none">• Once per Chassis PM Cycle
3	Ensure all product and system labels are present. See Section 3.4 for details.	<ul style="list-style-type: none">• Once per Chassis PM Cycle
4	Blow out any debris from the Energy and Engine Control Module filter (see Section 3.1.2.5) at least once per year; the air must be blown from the fine orange side to the coarse white side. After reinserting the filter with the orange side facing inward, torque the louver fasteners to 30 in-lbs (+/- 10%).	<ul style="list-style-type: none">• Annual

NOTICE

The interval between preventive maintenance procedures must not exceed 180 days.

NOTICE

ZeroRPM recommends using a PROTO J6061EFX electronic torque wrench for all fasteners with indicated torque specifications.

- When auditing with an adjustable wrench, the technician must torque to 85% of the specified value.
- When auditing with a clicker torque wrench, the auditor must turn the wrench fully as if installing a new component.

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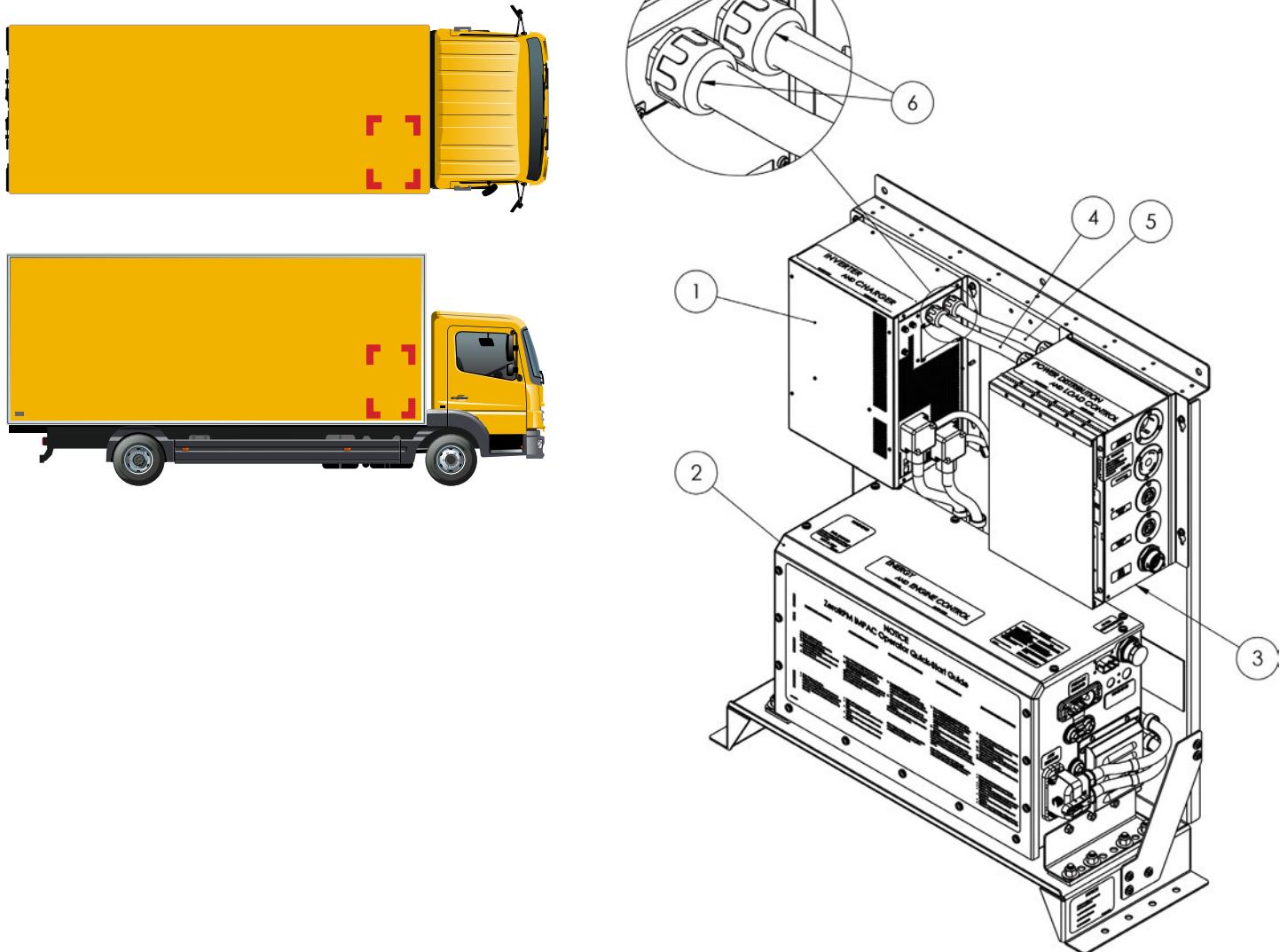
Section 3: Replacement Parts

Section 3.1: Body

Section 3.1.1: IMPAC

Callout	Part Number	Description	QTY	Torque Specification(s)
1	3008-40011	12V Inverter — See Doc. 4807-50047 for replacement instructions.	1	Mounting Fasteners: 85 in-lbs (+/- 10%)
2	7705-20000-001	Energy and Engine Control Module (PS300) — Detailed in Section 3.1.2.	1	Mounting Fasteners: 225 in-lbs (+/- 10%)
3	7760-10007	Power Distribution Module (PDM) — Detailed in Section 3.1.3.	1	Mounting Fasteners: 85 in-lbs (+/- 10%)
4	1903-40376	AC IN Inverter-to-PDM Harness	1	N/A
5	1903-40377	AC OUT Inverter-to-PDM Harness	1	N/A
6	1007-40047	1/2" Strain Relief for AC IN/AC OUT Harness	2	N/A

Component Location



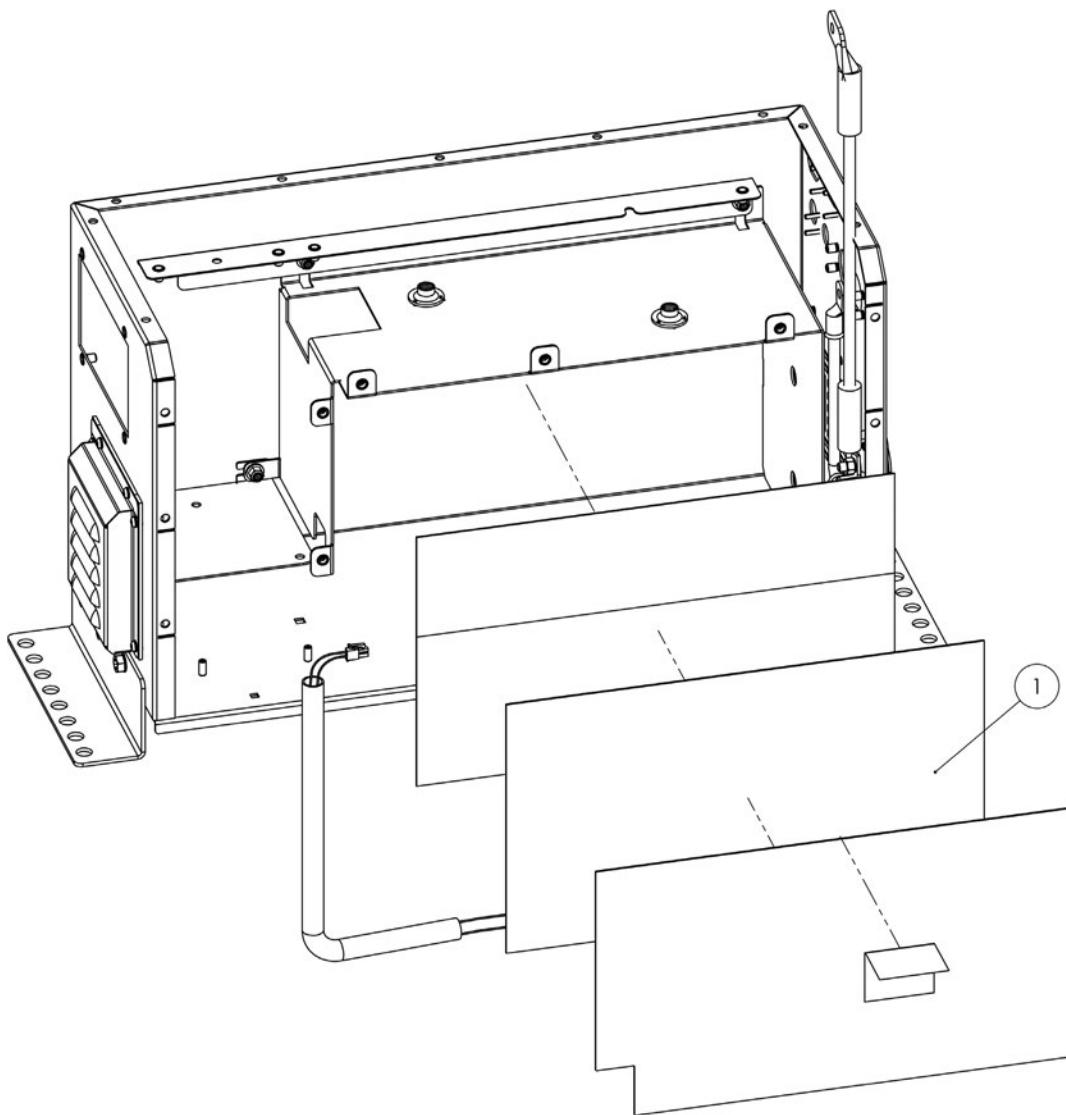
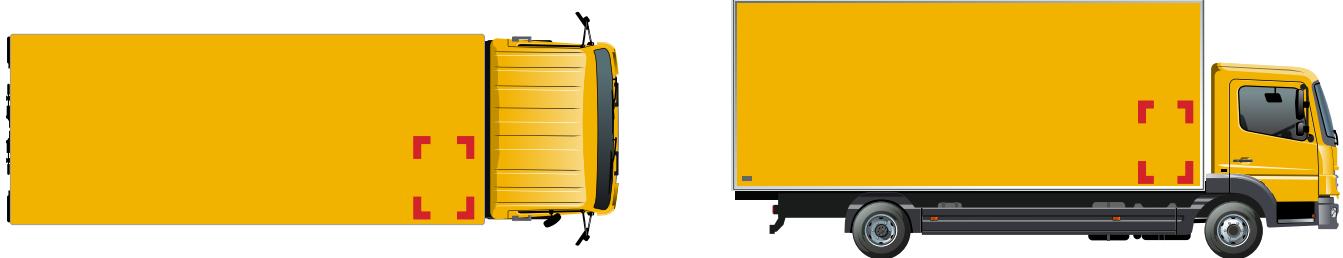
For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.1.2: Energy and Engine Control Module (PS300)

Section 3.1.2.1: Heater Pad Harness

Callout	Part Number	Description	QTY	Torque Specification(s)
1	3502-40018	Heater Pad Harness	1	N/A

Component Location

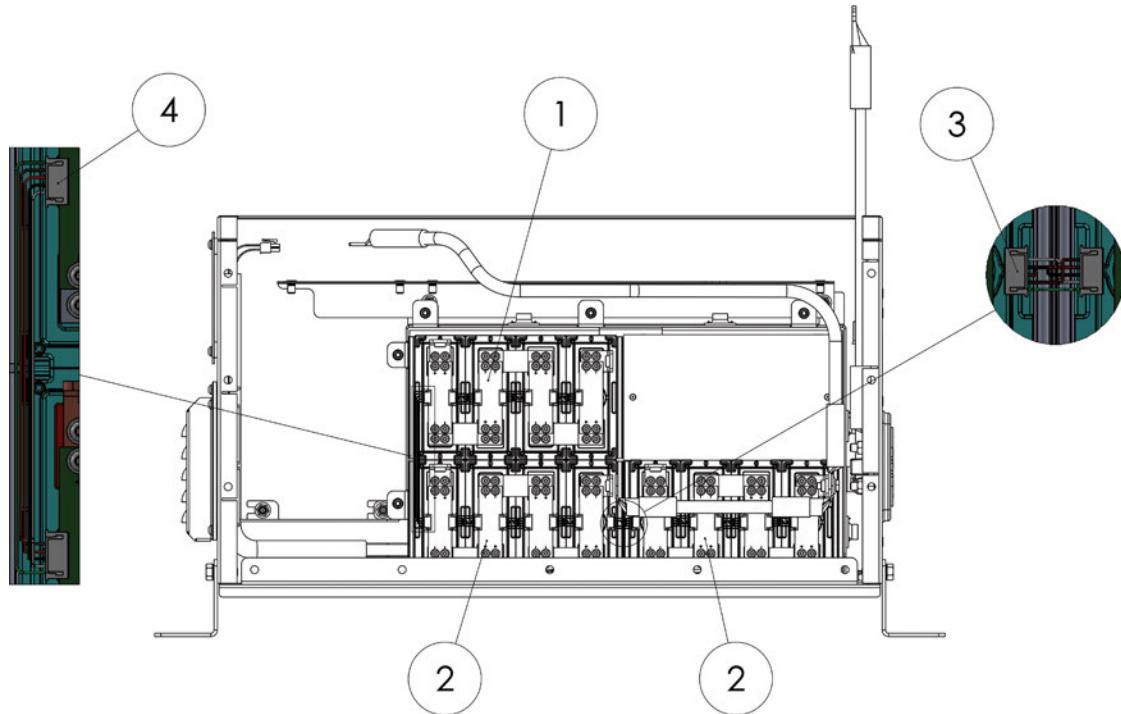


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Section 3.1.2.2: Batteries

Callout	Part Number	Description	QTY	Torque Specification(s)
1	6441-50605	Battery A	1	N/A
2	6441-50606	Battery B/C	2	N/A
3	1903-40193	2-1/2" Sense Board Jumper Harness	1	N/A
4	1903-40233	8" Sense Board Jumper Harness	1	N/A

Component Location

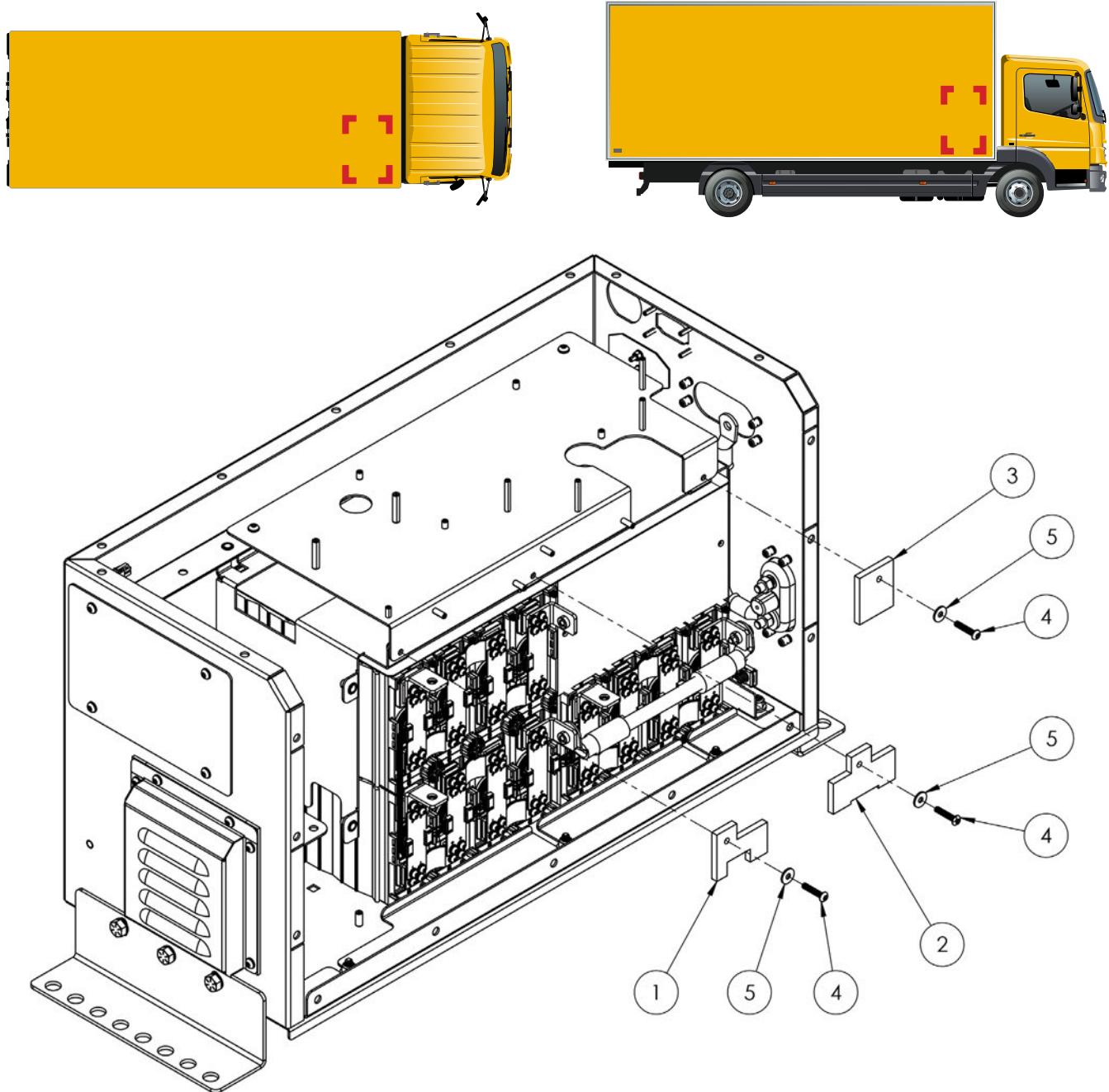


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Section 3.1.2.3: Battery Retainer Shims

Callout	Part Number	Description	QTY	Torque Specification(s)
1	0406-40783	Left Battery Retainer Shim	1	Mounting Fasteners: 30 in-lbs (+/- 10%)
2	0406-40784	Middle Battery Retainer Shim	1	Mounting Fasteners: 30 in-lbs (+/- 10%)
3	0406-40727	Right Battery Retainer Shim	1	Mounting Fasteners: 30 in-lbs (+/- 10%)
4	1004-40113	M5 x 25mm Button-head Screw	3	N/A
5	1003-40053	M5 Fender Washer	3	N/A

Component Location

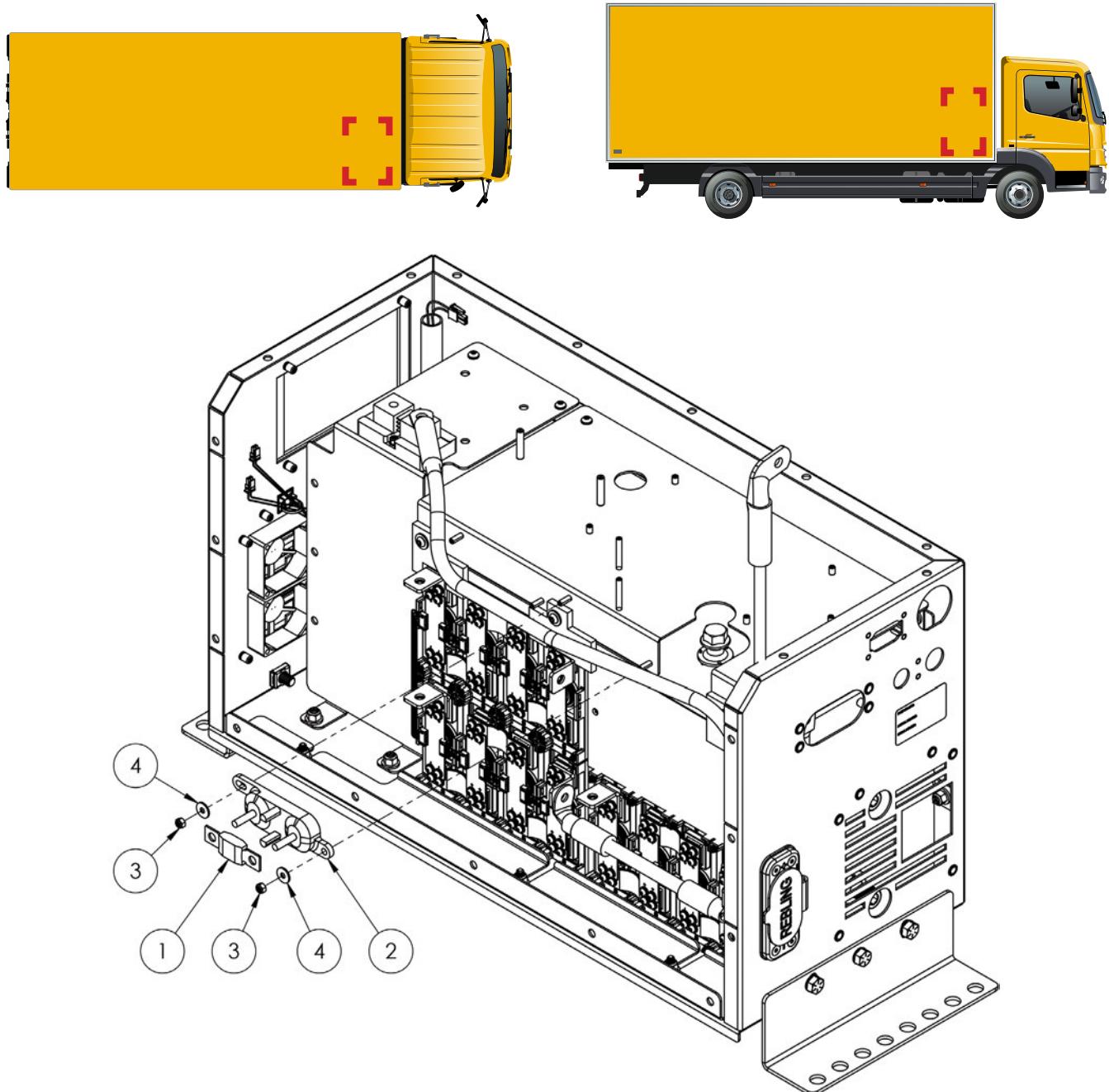


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Section 3.1.2.4: 500A Fuse and Fuse Holder

Callout	Part Number	Description	QTY	Torque Specification(s)
1	3010-40023	32VDC 500A Slow-blow Fuse	1	Mounting Fasteners: 30 in-lbs (+/- 10%) Electrical Connections: 114 in-lbs (+/- 5%)
2	1042-40123	Fuse Holder	1	N/A
3	1001-3003	M5 Nylock Nut	2	N/A
4	1003-40053	M5 Fender Washer	2	N/A

Component Location

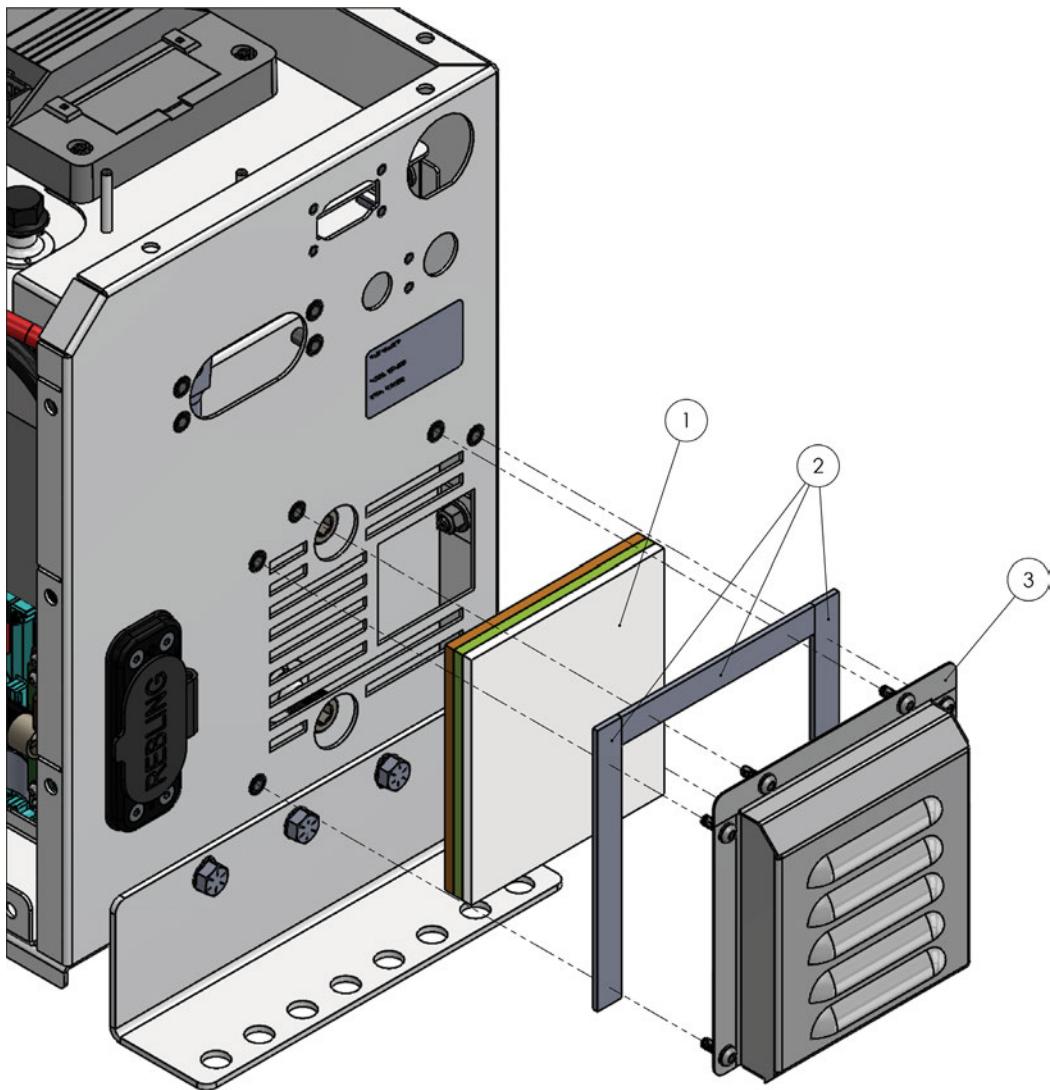
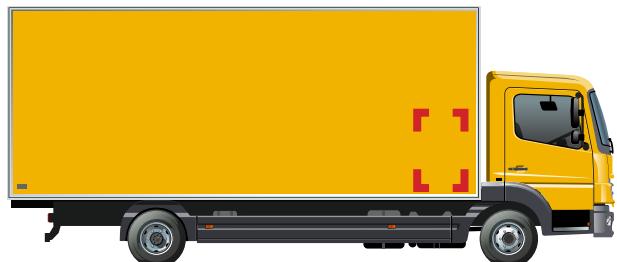


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Section 3.1.2.5: Air Intake Filter and Louver

Callout	Part Number	Description	QTY	Torque Specification(s)
1	1107-40001	5" x 5-1/2" Air Intake Filter — Orange side must face inward.	1	N/A
2	1028-40000	1/8" x 5/8" Adhesive Foam Gasket	17.5"	N/A
3	0404C40051	Air Intake Louver	1	Mounting Fasteners: 30 in-lbs (+/- 10%)

Component Location

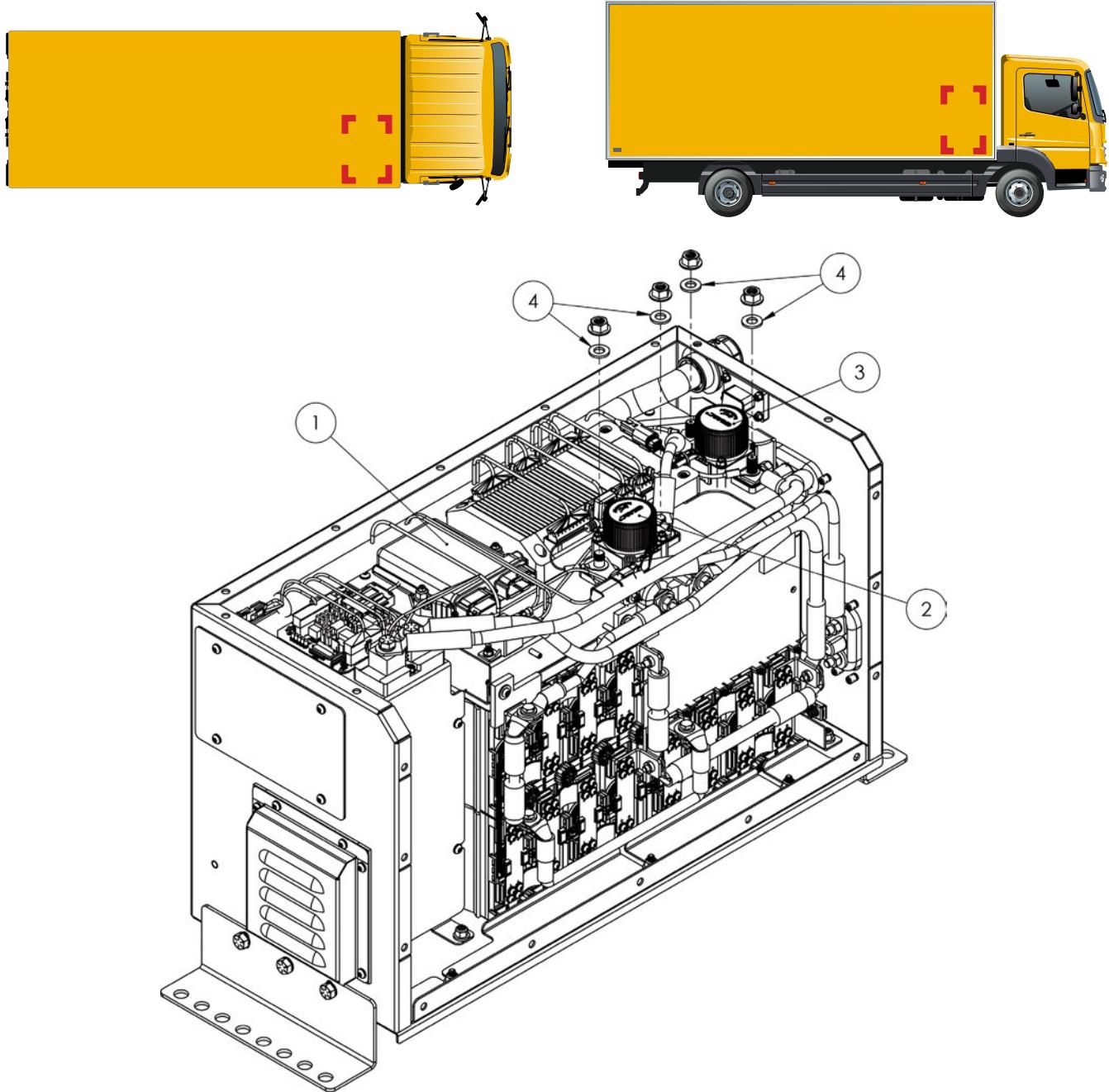


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Section 3.1.2.6: Battery Management System (BMS) Module and Contactors

Callout	Part Number	Description	QTY	Torque Specification(s)
1	3595-40073	Battery Management System (BMS) Module	1	Mounting Fasteners: 30 in-lbs (+/- 10%)
2	1903-40248	ZeroDRAW Contactor	1	Mounting Fasteners: 30 in-lbs (+/- 10%) Electrical Connections: 167 in-lbs (+/- 5%)
3	1903-40109	Remote Disconnect Contactor	1	Mounting Fasteners: 30 in-lbs (+/- 10%) Electrical Connections: 167 in-lbs (+/- 5%)
4	1003-40051	M10 Flat Washer	4	N/A

Component Location

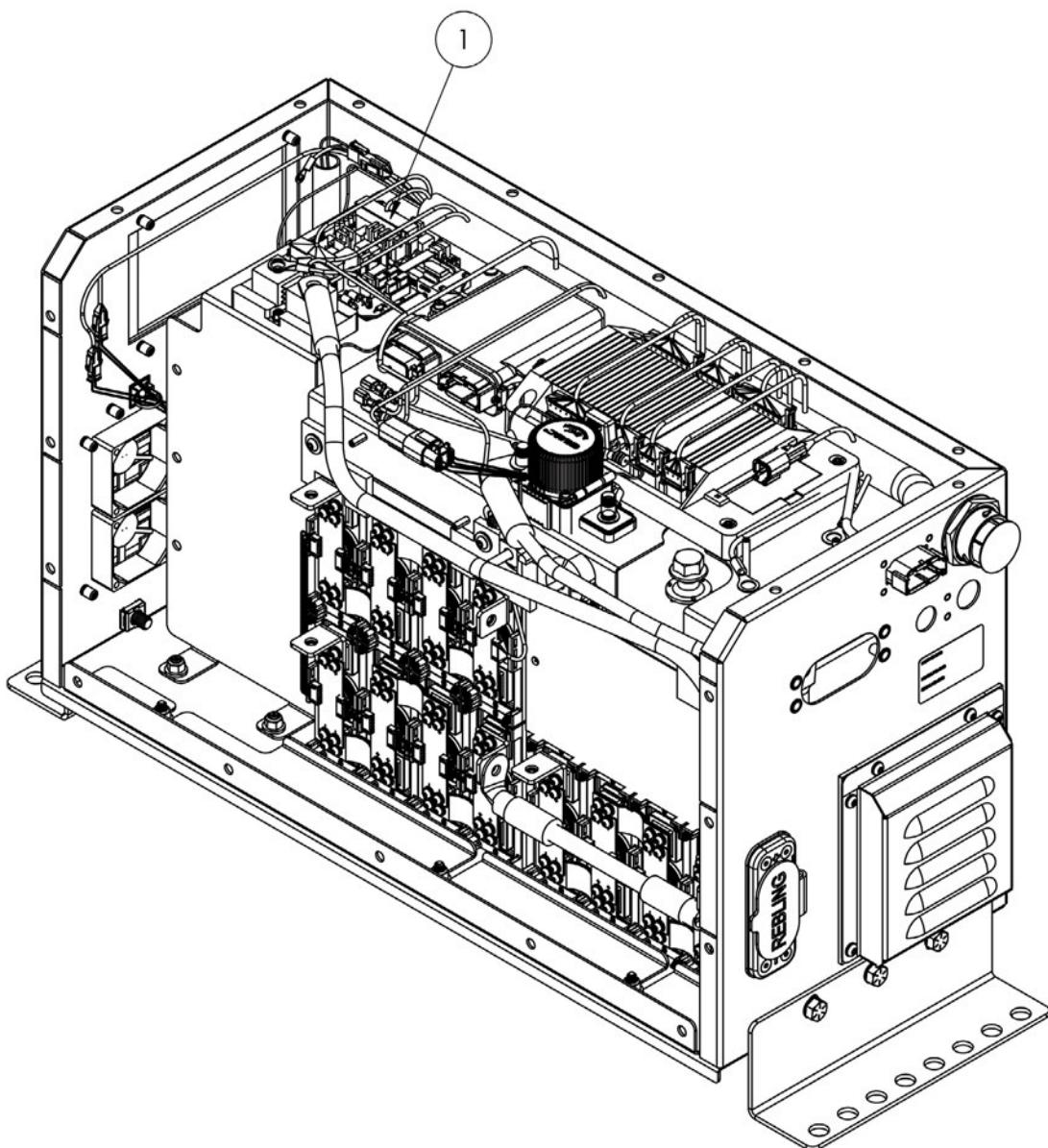


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.1.2.7: Printed Circuit Board Assembly

Callout	Part Number	Description	QTY	Torque Specification(s)
1	7407-40018	Printed Circuit Board Assembly	1	N/A

Component Location

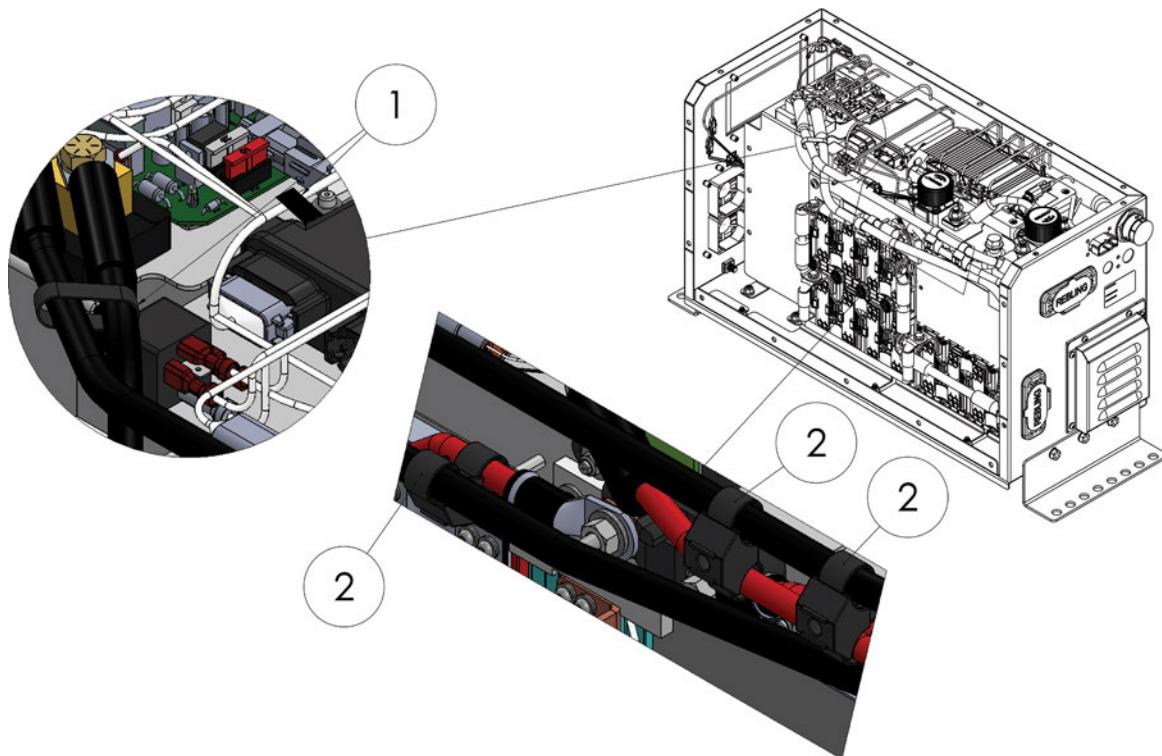
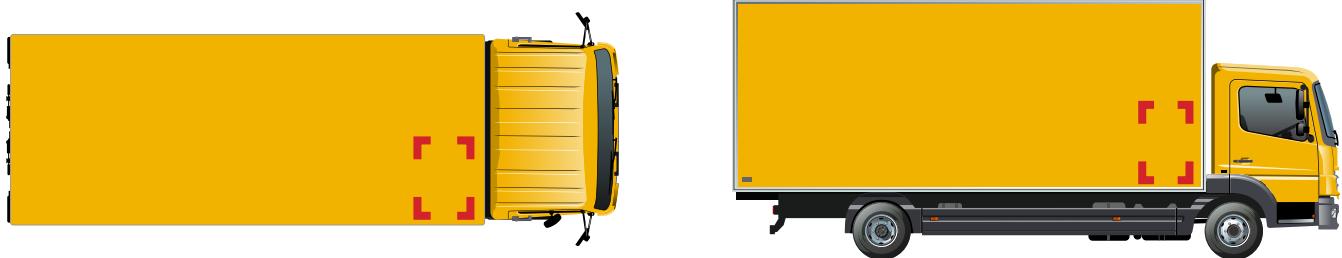


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.1.2.8: Cable Ties

Callout	Part Number	Description	QTY	Torque Specification(s)
1	7407-40018	Printed Circuit Board Assembly	2	N/A
2	1007-40024	13" Dual-clamp Cable Tie	3	N/A

Component Location

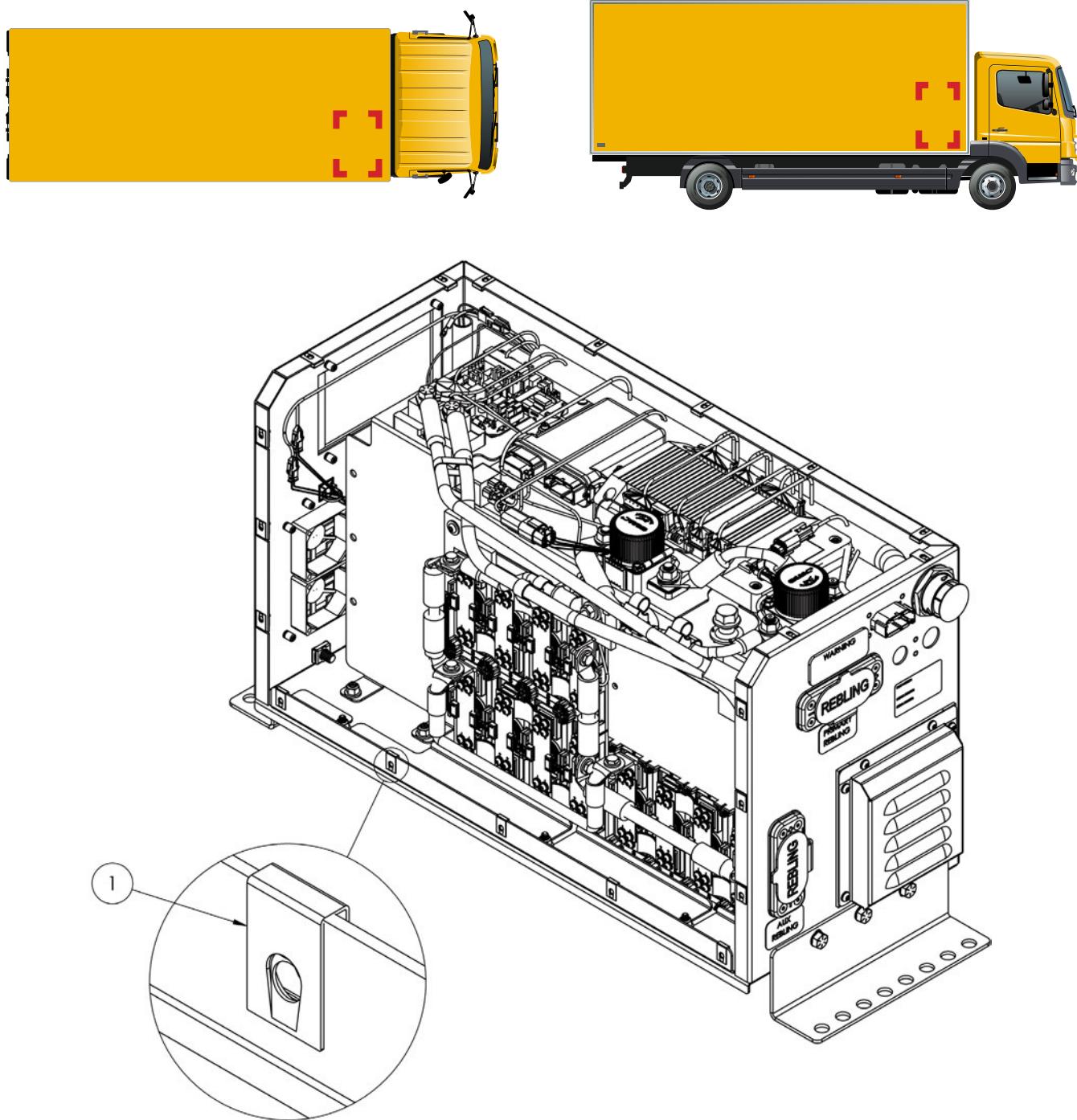


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.1.2.9: Lid Mounting Clip Nuts

Callout	Part Number	Description	QTY	Torque Specification(s)
1	1001-40040	M5 Clip Nut	20	N/A

Component Location

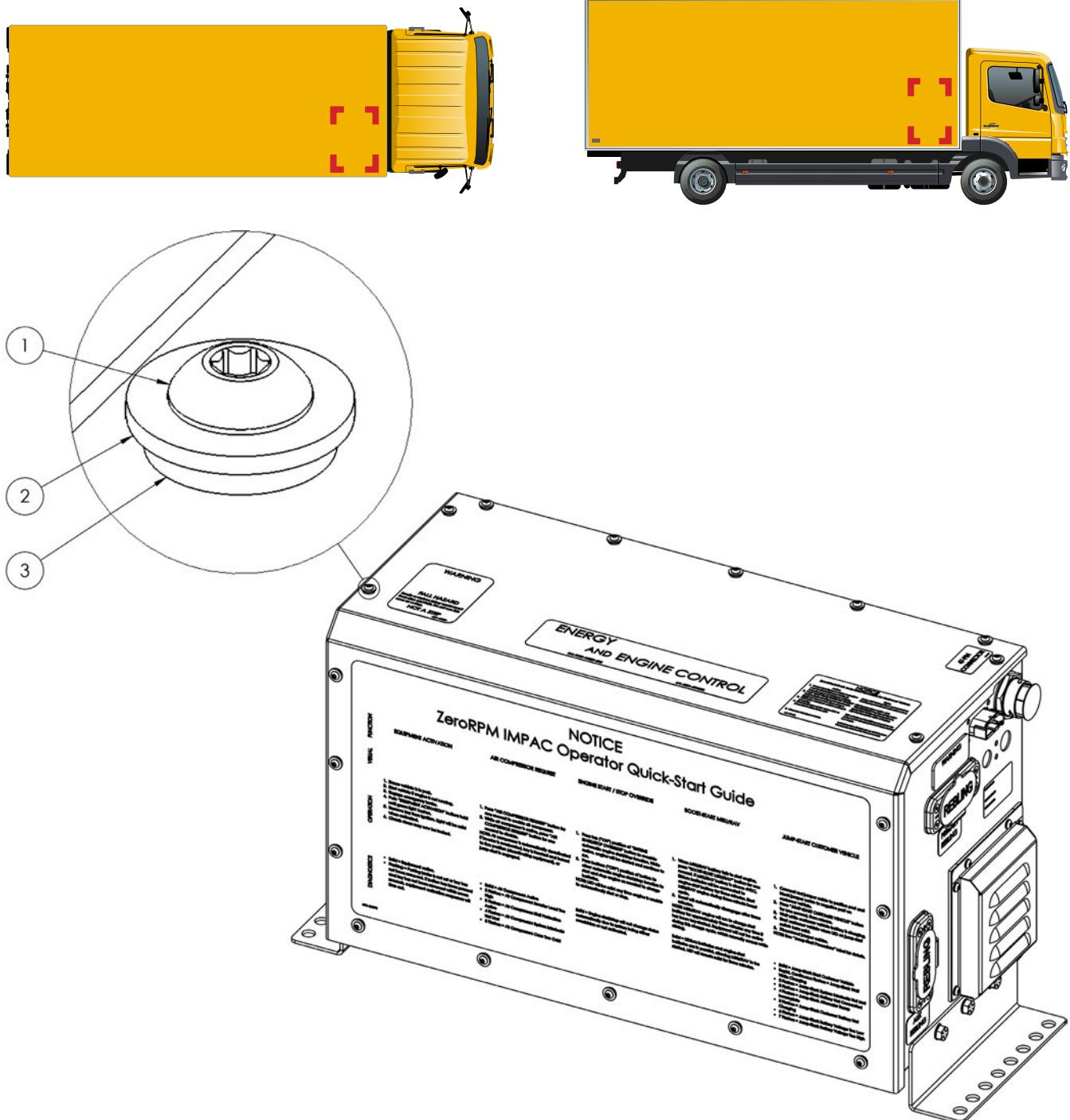


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.1.2.10: Lid Mounting Screws and Washers

Callout	Part Number	Description	QTY	Torque Specification(s)
1	1002-40070	M5 x 16mm Button-head Screw	20	Fully Seated
2	1003-40053	M5 Fender Washer	20	N/A
3	1003-40052	#10 Sealing Washer	20	N/A

Component Location



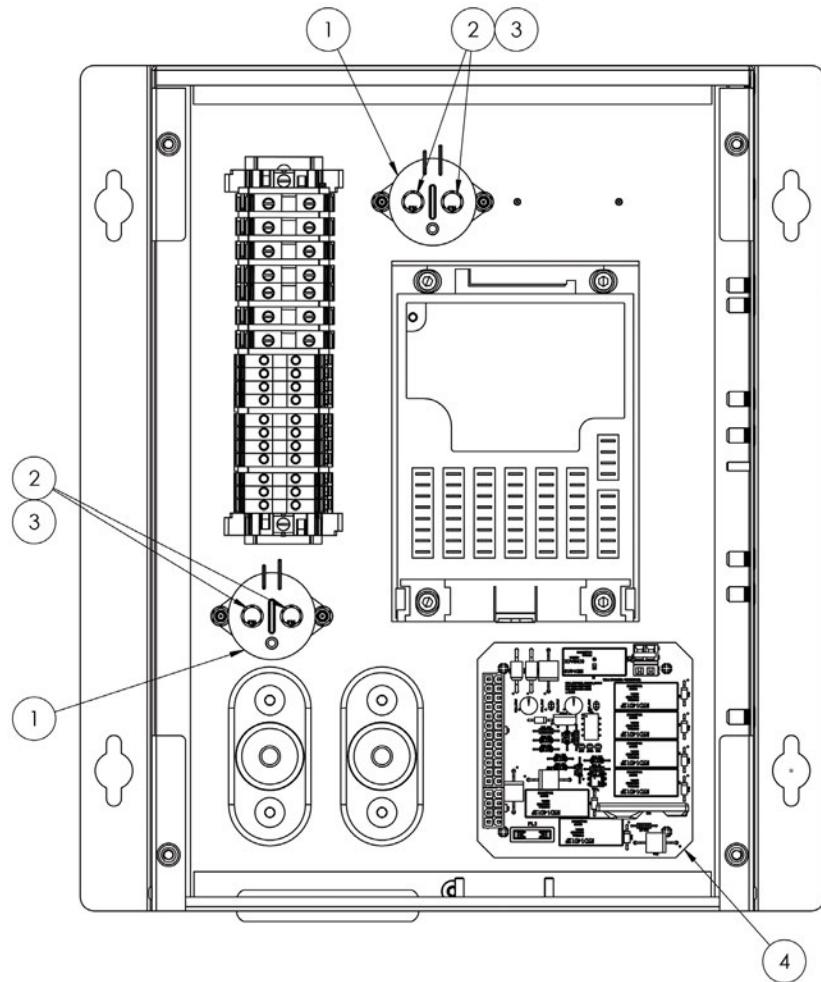
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Section 3.1.3: Power Distribution Module (PDM)

Section 3.1.3.1: Control Board and Contactors

Callout	Part Number	Description	QTY	Torque Specification(s)
1	1903-40304	100A DC Contactor	2	Mounting Fasteners: 16 in-lbs (+/- 10%)
2	1004-40068	M5 x 10mm Hex Screw	4	N/A
3	1003-2403	M5 Flat Washer	4	N/A
4	6407-40025	PDM Control Board	1	N/A

Component Location

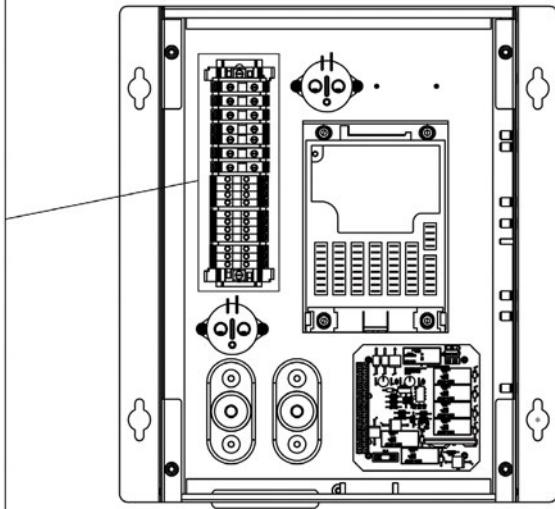
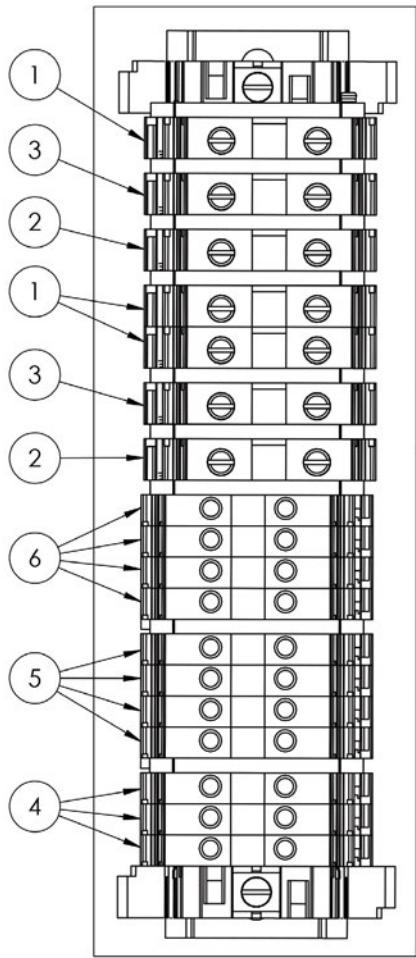
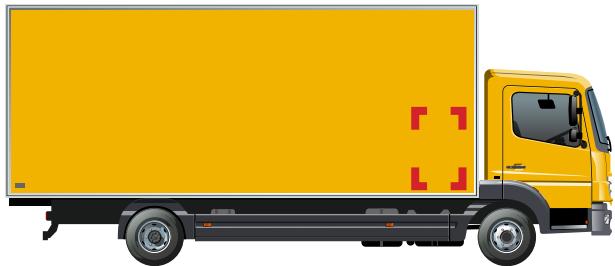


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.1.3.2: DIN Terminals

Callout	Part Number	Description	QTY	Torque Specification(s)
1	1042-40155	50A 600V 8mm DIN Terminal – Black	3	Mounting Fasteners: 7 in-lbs (+/- 10%) Electrical Connections: 8 in-lbs (+/- 5%)
2	1042-40156	50A 600V 8mm DIN Terminal – Green	2	
3	1042-40157	50A 600V 8mm DIN Terminal – White	2	
4	1042-40158	30A 600V 6mm DIN Terminal – Black	3	
5	1042-40159	30A 600V 6mm DIN Terminal – Black	4	
6	1042-40160	30A 600V 6mm DIN Terminal – White	4	

Component Location

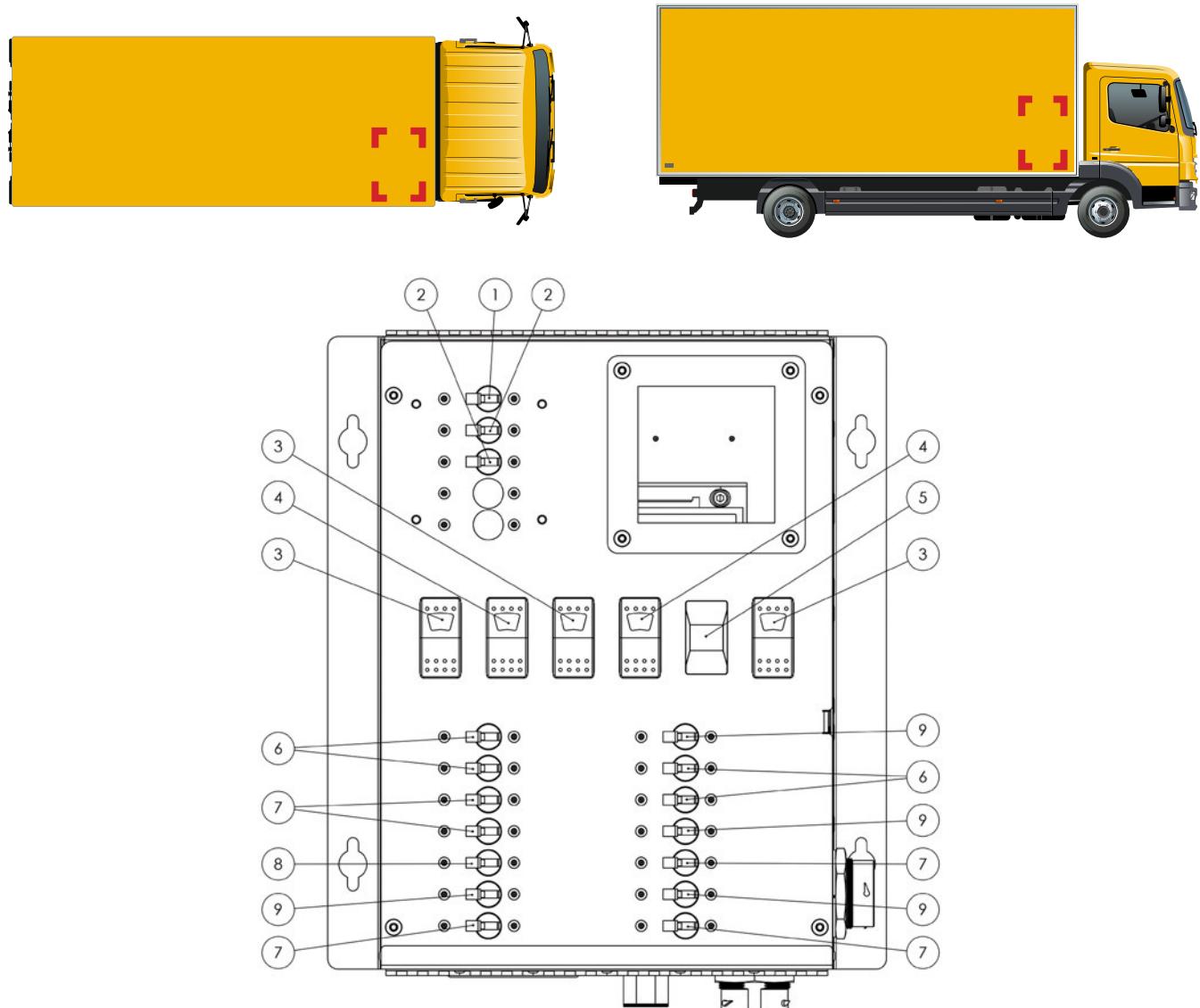


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.1.3.3: Breakers and Switches

Callout	Part Number	Description	QTY	Torque Specification(s)
1	3010-40032	30A 80VDC/277VAC Breaker	1	Mounting Fasteners: 8 in-lbs (+/- 10%)
2	3010-40031	15A 80VDC/277VAC Breaker	2	
3	3001-40012	Momentary Rocker Switch with Red LED	3	N/A
4	3001-40011	Maintained Rocker Switch with Red LED	2	N/A
5	1028-40044	Rocker Switch Plug	1	N/A
6	3010-40036	10A 80VDC/277VAC Breaker	4	Mounting Fasteners: 8 in-lbs (+/- 10%)
7	3010-40034	5A 80VDC/277VAC Breaker	5	
8	3010-40037	15A 80VDC/277VAC Breaker	1	
9	3010-40038	20A 80VDC/277VAC Breaker	4	

Component Location

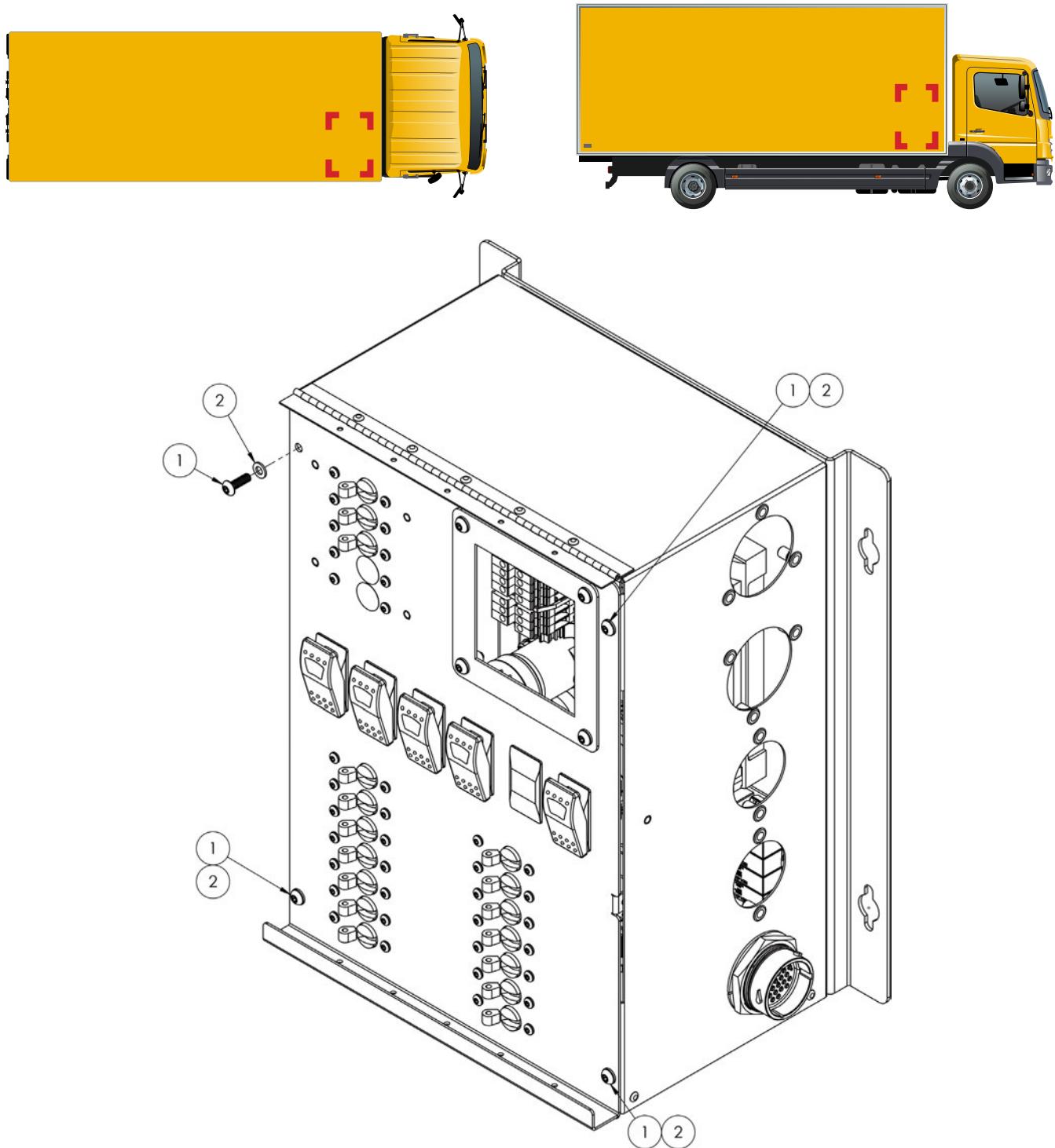


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.1.3.4: Faceplate

Callout	Part Number	Description	QTY	Torque Specification(s)
1	1002-40070	M5 x 16mm Button-head Screw	4	Mounting Fasteners: 85 in-lbs (+/- 10%)
2	1003-2000	M5 Flat Washer	4	N/A

Component Location

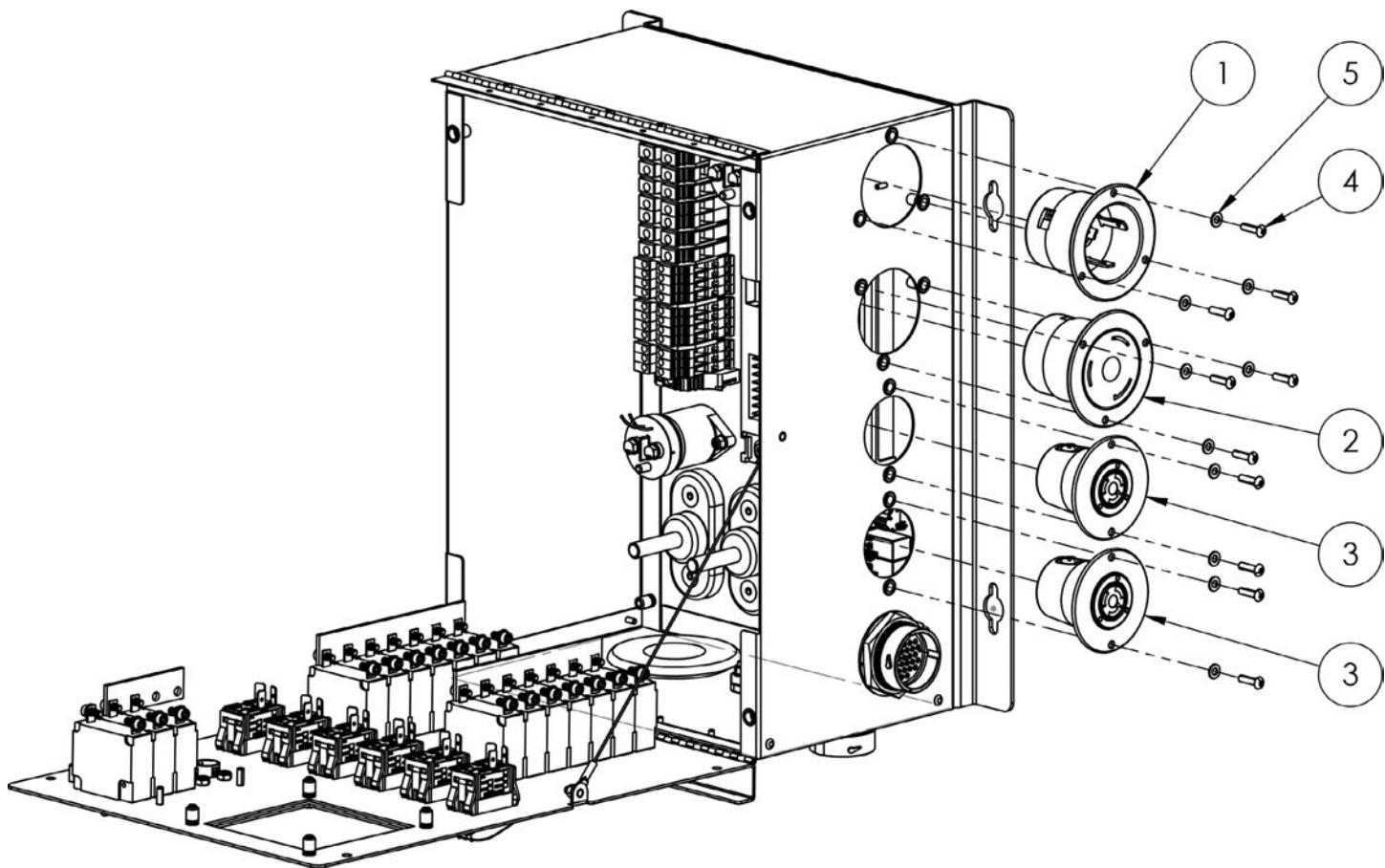
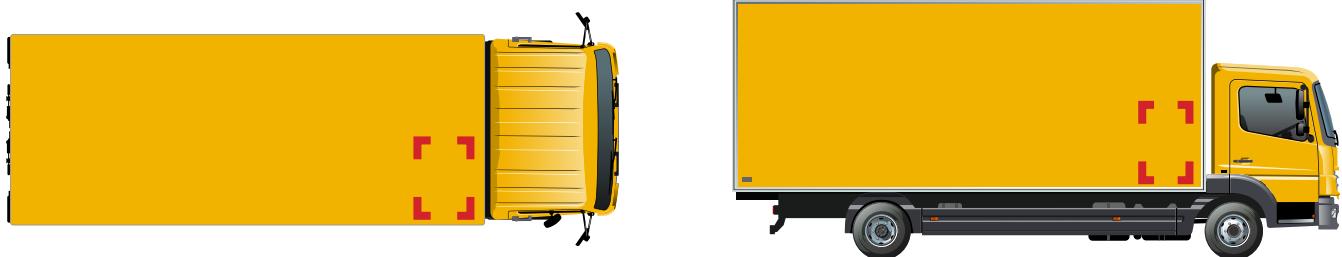


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.1.3.5: Power Inlet and Outlets

Callout	Part Number	Description	QTY	Torque Specification(s)
1	3008-40012	30A 120VAC Shoreline Auto-eject Inlet	1	Mounting Fasteners: 12 in-lbs (+/- 10%)
2	3008-40015	30A 120VAC Compressor Outlet	1	
3	3008-40014	15A 120VAC Curb-side/Street-side Outlet	2	
4	1002-40076	M4 x 16mm Button-head Screw	10	
5	1003-0106	M4 Flat Washer	10	N/A

Component Location

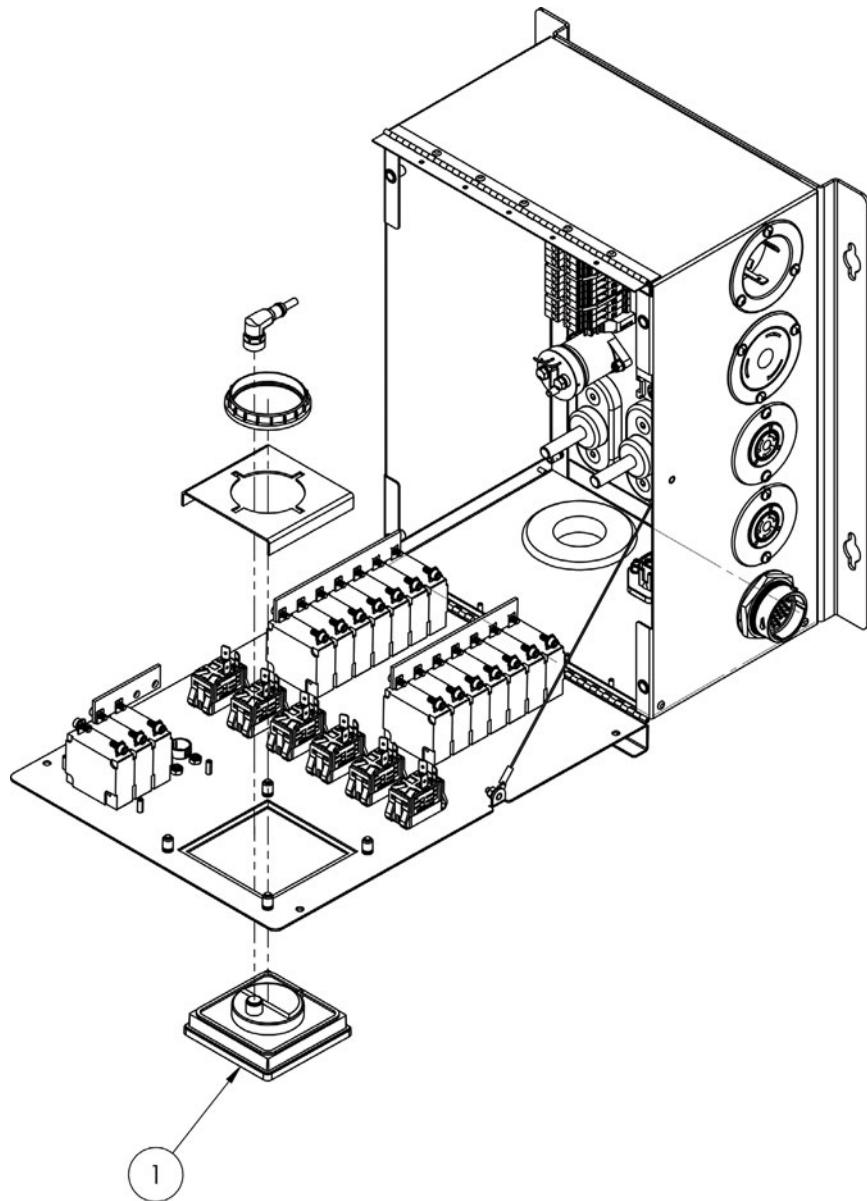
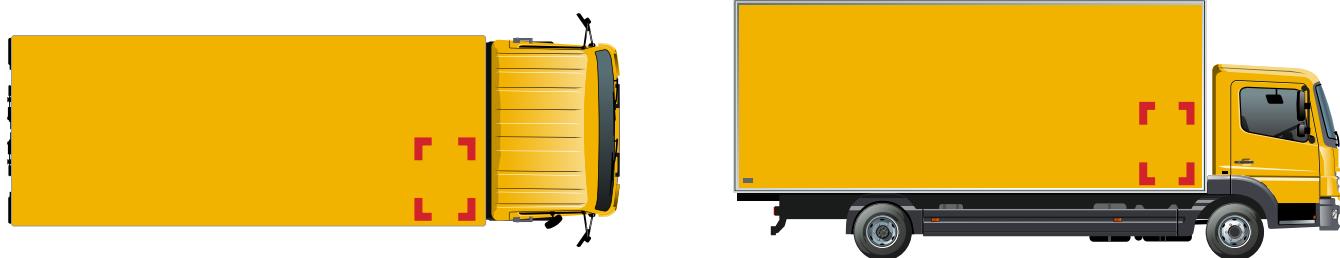


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.1.3.6: IMPAC User Display

Part Number	Description	QTY	Torque Specification(s)
S7100-10002-001	IMPAC User Display	1	N/A

Component Location

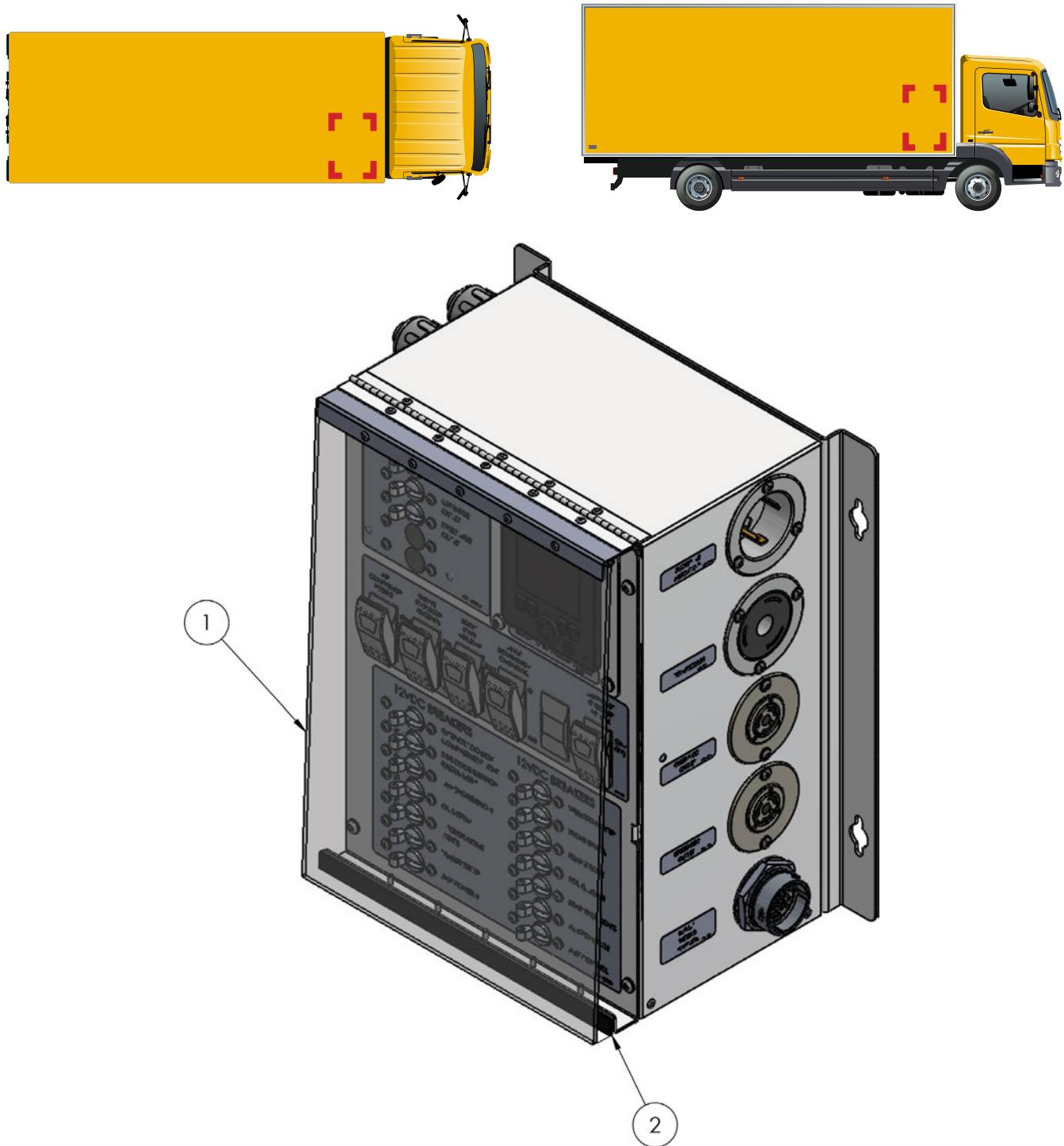


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.1.3.7: Lexan Cover

Callout	Part Number	Description	QTY	Torque Specification(s)
1	0406-40752	PDM Lexan Cover	1	N/A
2	1032-40002	1/2" Adhesive Magnetic Tape	1	N/A

Component Location

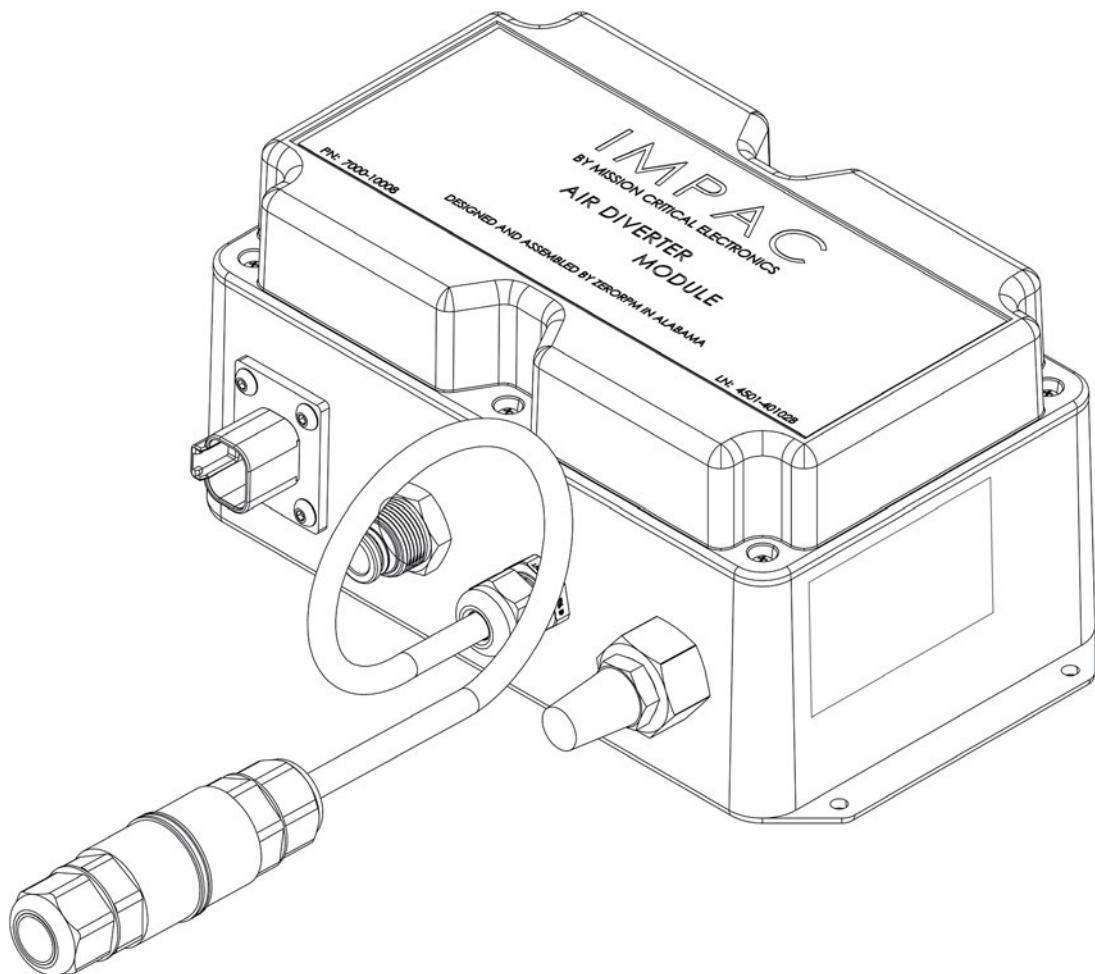


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.1.4: Air Diverter Module

Callout	Part Number	Description	QTY	Torque Specification(s)
1	7760-10008	Air Diverter Module	1	Fully Seated

Component Location

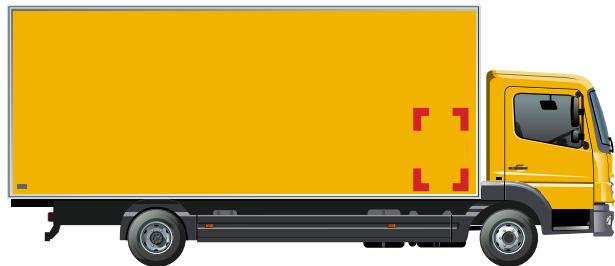


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Section 3.1.5: PDM Harnesses

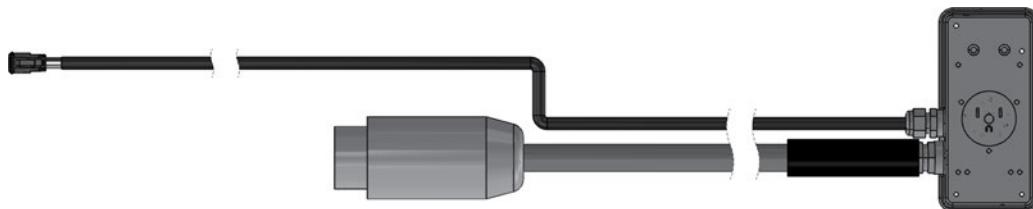
Part Number	Description	QTY	Torque Specification(s)
3008-10004	Shore Power Auto-eject Harness	1	N/A
3008-10005	Street-side Harness	1	N/A
3008-10006	Curb-side Harness	1	N/A
1903-40363	120VAC Compressor Power Harness	1	N/A

Component Location

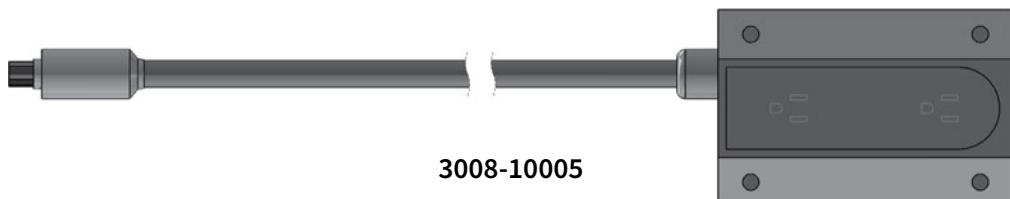


NOTICE

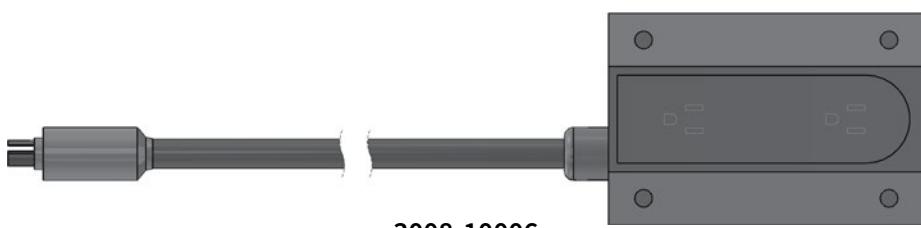
A wrap label on each harness indicates the part number.



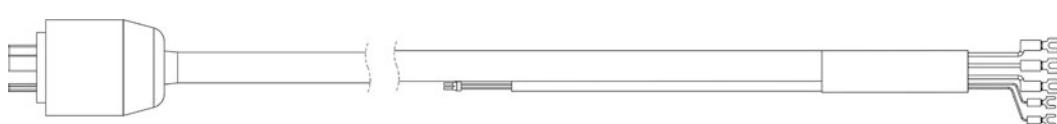
3008-10004



3008-10005



3008-10006



1903-40363

For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.1.6: IMPAC Wiring Harness and Compressor Heater Pad Harness

Part Number	Description	QTY	Torque Specification(s)
1903-40348	IMPAC Wiring Harness	1	N/A
1903-40373	Compressor Heater Pad Harness	1	N/A

NOTICE

A wrap label on each harness indicates the part number.

Component Location



1903-40348

Component Location



1903-40373

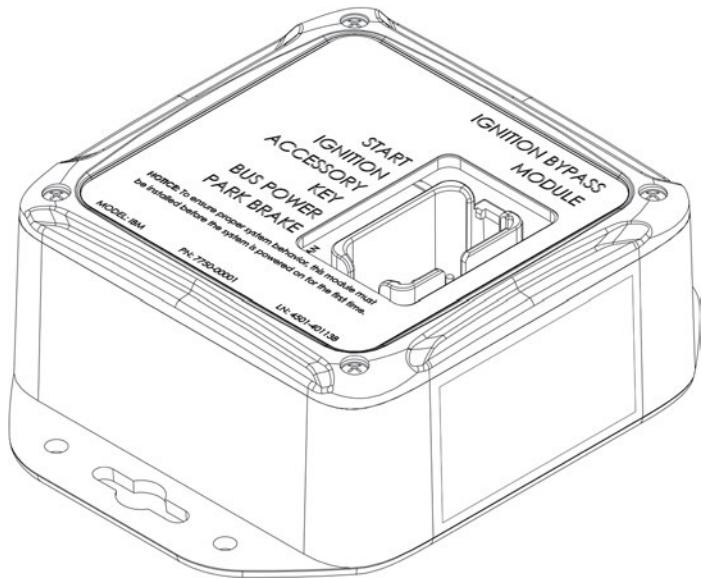
For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.2: Cab

Section 3.2.1: Ignition Bypass Module and Fast Idle Module

Part Number	Description	QTY	Torque Specification(s)
7750-00001	Ignition Bypass Module	1	N/A
7000-40018	Fast Idle Module	1	N/A

Component Location



7750-00001



7000-40018

For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.2.2: Equipment Activation Push-button Harness

Callout	Part Number	Description	QTY	Torque Specification(s)
1	1903-40364	Equipment Activation Push-button Harness	1	Fully Seated

NOTICE

A wrap label on each harness indicates the part number.

Component Location



EQUIPMENT ACTIVATION

PUSH AND HOLD BUTTON TO ACTIVATE.

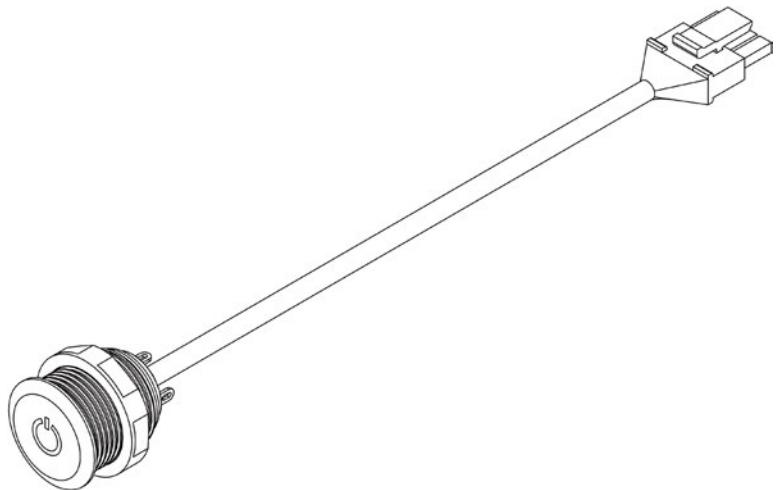
Flashing Light - Set parking brake and remove key to activate.

Solid Light - Successfully activated.



For more information about ZeroRPM IMPAC system, see label on driver-side visor.

4501-40110A



For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.2.3: Main Cab Harness and High-speed OBD2 Harness

Part Number	Description	QTY	Torque Specification(s)
1903-40347	Main Cab Harness	1	N/A
1903-40379	High-speed OBD2 Harness	1	N/A

NOTICE

A wrap label on each harness indicates the part number.

Component Location



1903-40347



1903-40379

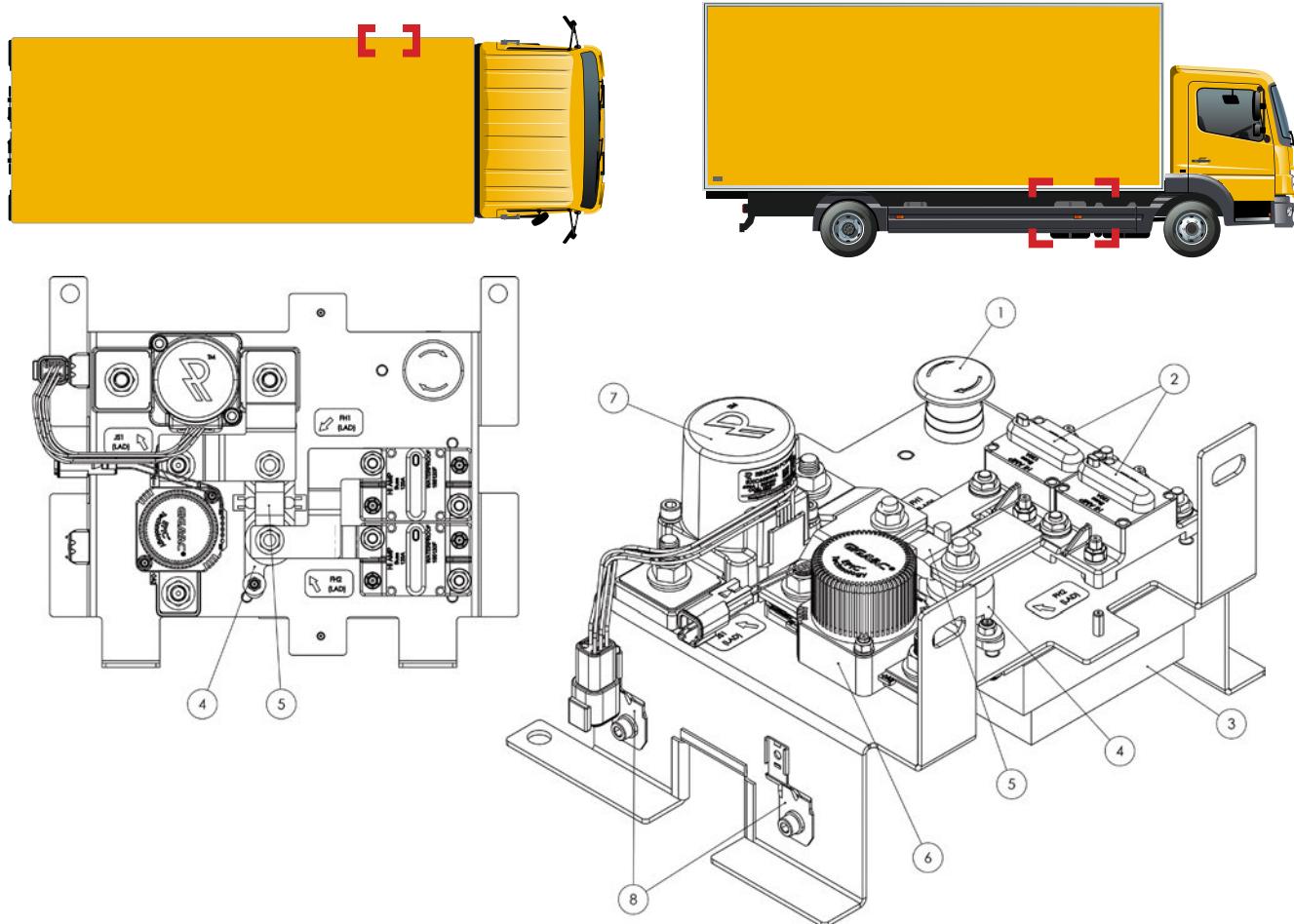
For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.3: Chassis

Section 3.3.1: Lead-acid Disconnect Plate

Callout	Part Number	Description	QTY	Torque Specification(s)
N/A	6441-50552	Lead-acid Disconnect Plate	1	Mounting Fasteners: 52 in-lbs (+/- 10%)
1	3001-40006	Hybrid Disconnect Switch	1	N/A
2	3010-40043	150A 48VDC Breaker	2	Mounting Fasteners: 43 in-lbs (+/- 10%) Electrical Connections: 43 in-lbs (+/- 5%)
3	3591-40012	DC-DC Converter	1	Mounting Fasteners: 55 in-lbs (+/- 5%)
4	1042-40123	Fuse Holder	1	Mounting Fasteners: 30 in-lbs (+/- 10%) Electrical Connections: 43 in-lbs (+/- 5%)
5	3010-40023	500A 32VDC Slow-blow Fuse	1	N/A
6	1903-40162	Lead-acid Disconnect Contactor	1	Mounting Fasteners: 30 in-lbs (+/- 10%) Electrical Connections: 167 in-lbs (+/- 5%)
7	1903-40354	Jump-start Contactor	1	Mounting Fasteners: 30 in-lbs (+/- 10%) Electrical Connections: 167 in-lbs (+/- 5%)
8	1007-40048	Harness Connector Clip	2	Mounting Fasteners: 55 in-lbs (+/- 10%)

Component Location

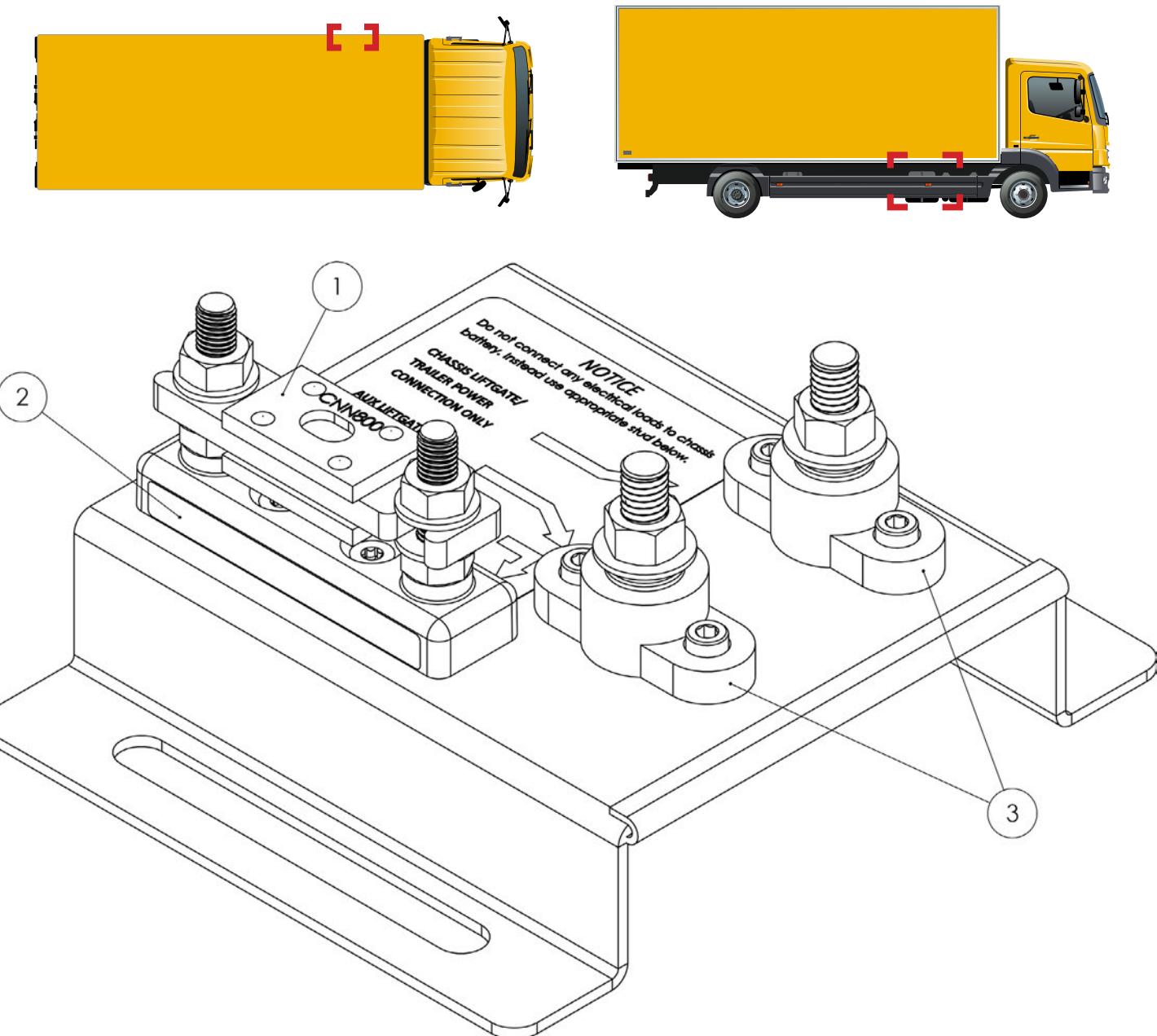


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.3.2: Junction Stud Bracket Assembly

Callout	Part Number	Description	QTY	Torque Specification(s)
N/A	6441-50558	Junction Stud Bracket Assembly	1	Mounting Fasteners: Installer Discretion per Hardware Used
1	3010-40042	800A 80VDC Fuse	1	N/A
2	3010-40041	Fuse Holder	1	Mounting Fasteners: 22 in-lbs (+/- 10%) Electrical Connections: 90 in-lbs (+/- 5%)
3	1042-40001	3/8" Power Stud	2	Mounting Fasteners: 43 in-lbs (+/- 10%) Electrical Connections: 120 in-lbs (+/- 5%)

Component Location

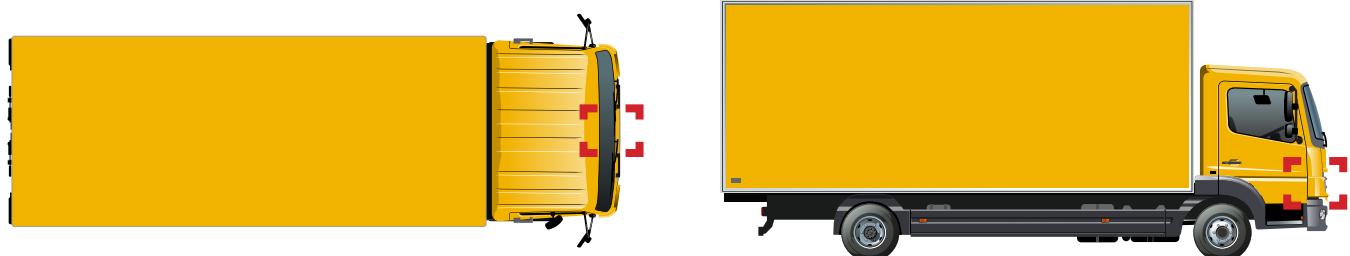


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.3.3: Alternator

Part Number	Description	QTY	Torque Specification(s)
3018-40003	300A 12V Alternator	1	Mounting Fasteners: 43 in-lbs (+/- 5%)

Component Location

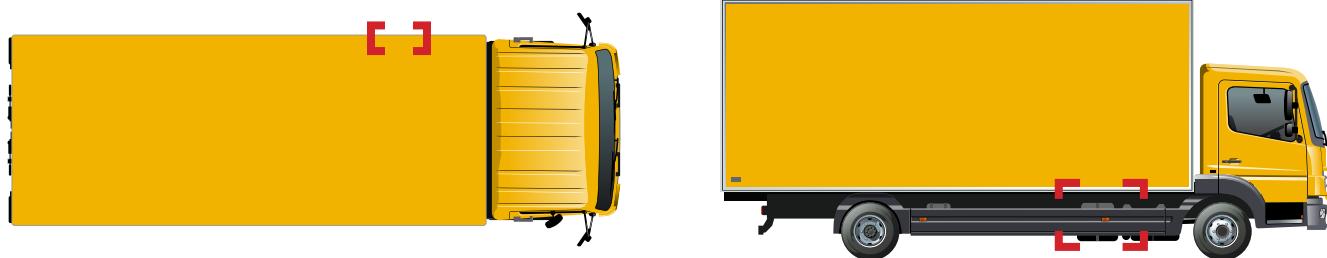


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.3.4: Current Sensor

Part Number	Description	QTY	Torque Specification(s)
3015-40008	300A 12V Current Sensor	1	N/A

Component Location



For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.3.5: Main Chassis Harness

Part Number	Description	QTY	Torque Specification(s)
1903-40346	Main Chassis Harness	1	N/A

NOTICE

A wrap label on each harness indicates the part number.

Component Location



For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

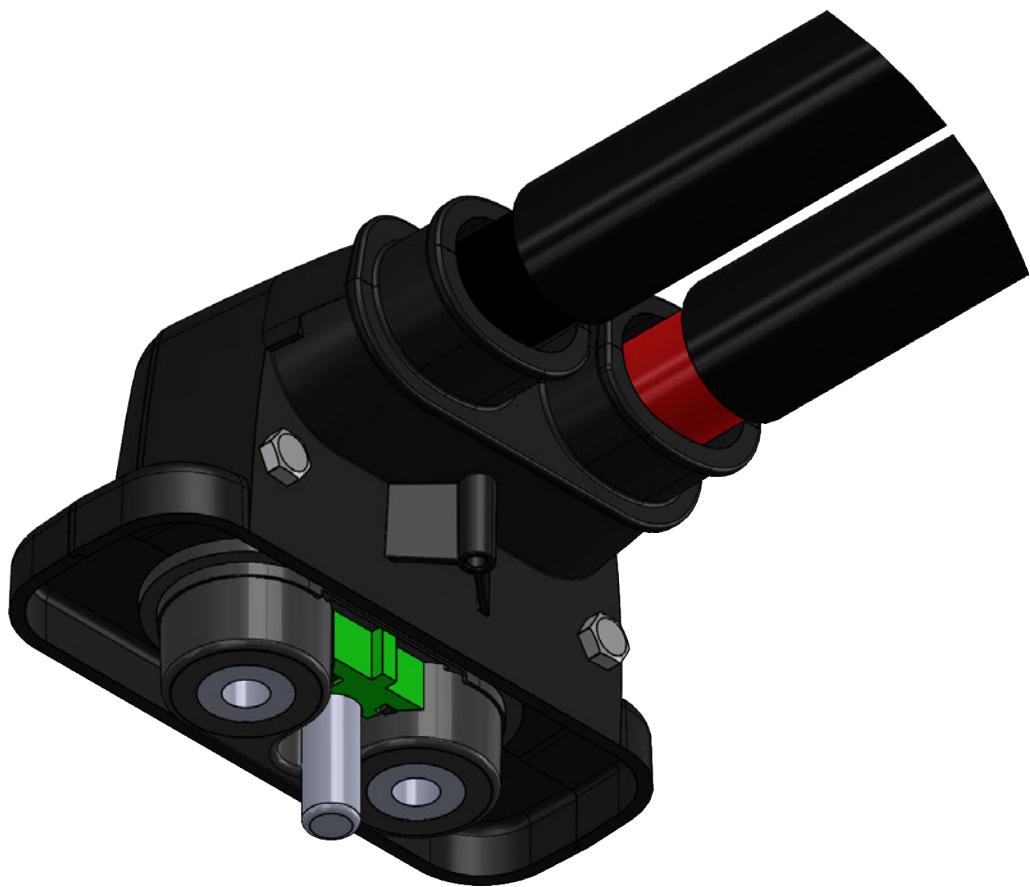
Section 3.3.6: Rebling Plug Assembly

Part Number	Description	QTY	Torque Specification(s)
6441-50556	Primary Rebling Plug Assembly — Includes power and ground cables.	1	N/A

NOTICE

A wrap label on each cable indicates the part number.

Component Location



For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

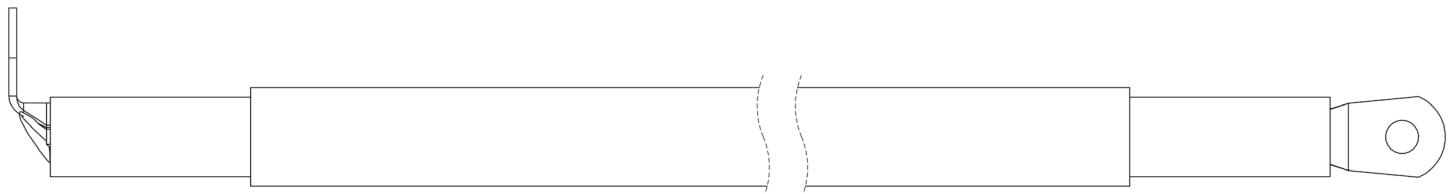
Section 3.3.7: Alternator-to-FH1 Cable

Part Number	Description	QTY	Torque Specification(s)
1902-40146	Alternator-to-FH1 Cable	1	N/A

NOTICE

A wrap label on each cable indicates the part number.

Component Location



For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

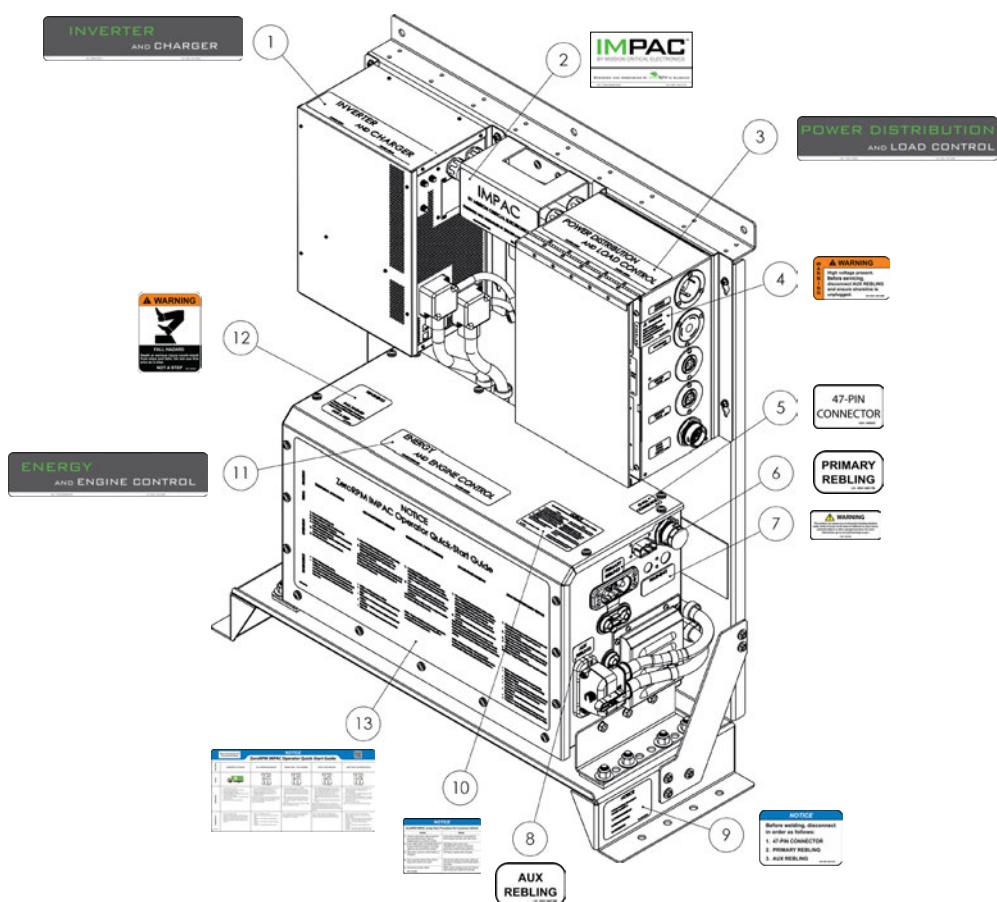
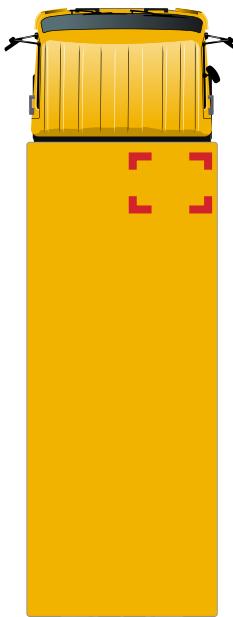
Section 3.4: Labels

Section 3.4.1: Body

Section 3.4.1.1: IMPAC

Callout	Part Number	Description	Quantity
1	4501-40104	Inverter and Charger	1
2	4501-40101	IMPAC Logo	1
3	4501-40105	Power Distribution and Load Control	1
4	4501-40128	PDM High Voltage Warning	1
5	4501-40085	47-pin Connector	1
6	4501-40017	Primary Rebling	1
7	4501-40034	California Proposition 65	1
8	4501-40018	Auxiliary Rebling	1
9	4501-40127	"Before Welding" Disconnection Notice	1
10	4501-40100	Jump-start Procedure	1
11	4501-40103	Energy and Engine Control	1
12	4501-40030	Fall Hazard	1
13	4501-40107	IMPAC Operator Quick-start Guide	1

Component Location

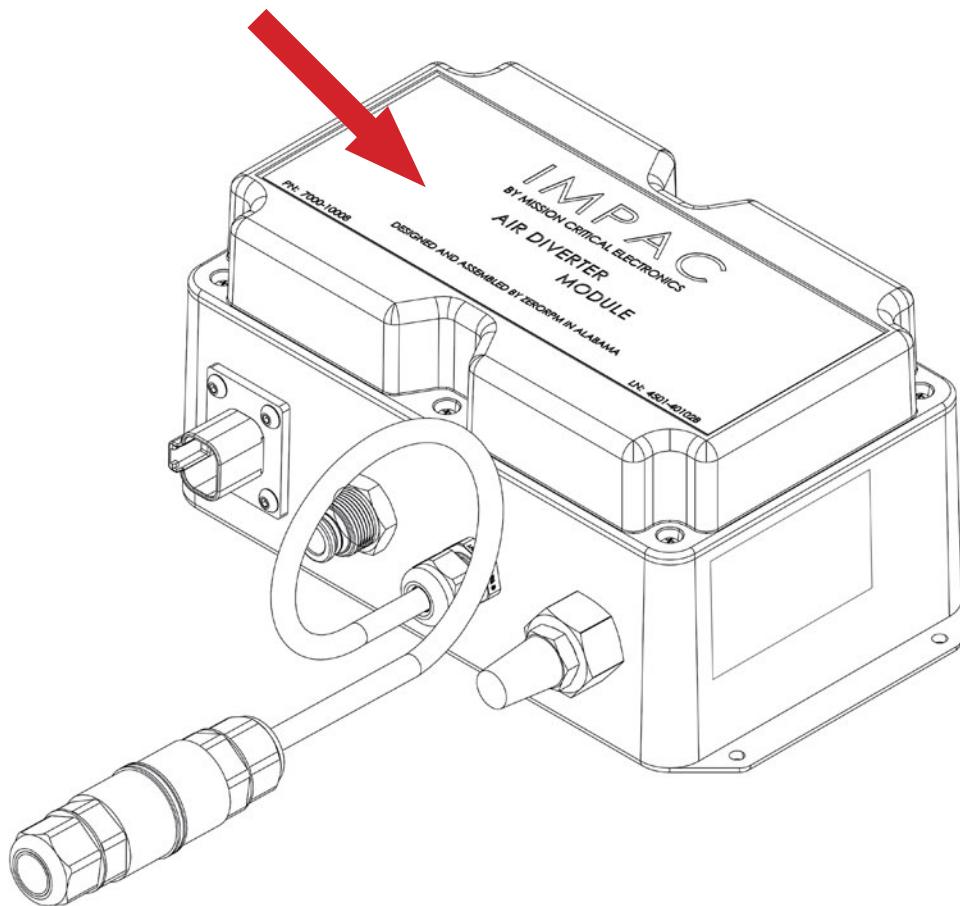


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.4.1.2: Air Diverter Module

Part Number	Description	Quantity
4501-40102	Air Diverter Module	1

Component Location

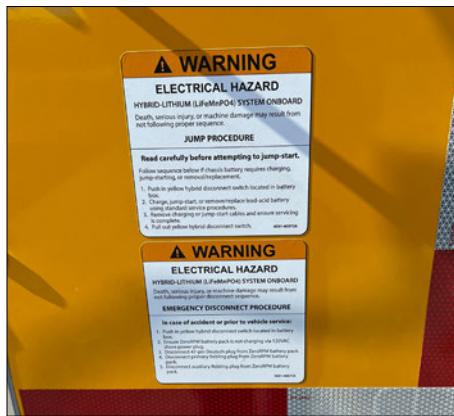


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.4.1.3: Battery Maintenance and Emergency Disconnect

Part Number	Description	Quantity
4501-40089	Chassis Battery Maintenance Procedure	2
4501-40090	Energy and Engine Control Module Emergency Disconnect Procedure	2

Component Location



Body



Step Well



4501-40089



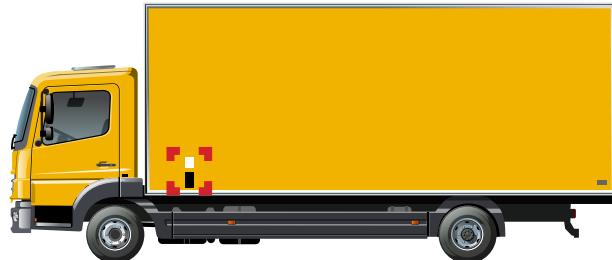
4501-40090

For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.4.1.4: Shore Power Auto-eject

Part Number	Description	Quantity
4501-40112	Shore Power Auto-eject Notice	1

Component Location



For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.4.2: Cab

Section 3.4.2.1: Equipment Activation Procedure

Part Number	Description	Quantity
4501-40079	Equipment Activation Procedure	1

Component Location



EQUIPMENT ACTIVATION

1. Ensure vehicle is in park.
2. Start vehicle if engine is not running.
3. Engage emergency brake.
4. Push "EQUIPMENT ACTIVATION" button below and hold until green light flashes.
5. Remove key from ignition. Light will be solid when activated.
6. Chassis doors may now be locked.

SEE VISOR PLACARD. 4501-40079C

For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.4.2.1: Equipment Activation Pushbutton

Part Number	Description	Quantity
4501-40110	Equipment Activation Button	1

Component Location



EQUIPMENT ACTIVATION

PUSH AND HOLD BUTTON TO ACTIVATE.

Flashing Light - Set parking brake and remove key to activate.

Solid Light - Successfully activated.



For more information about ZeroRPM IMPAC system, see label on driver-side visor.

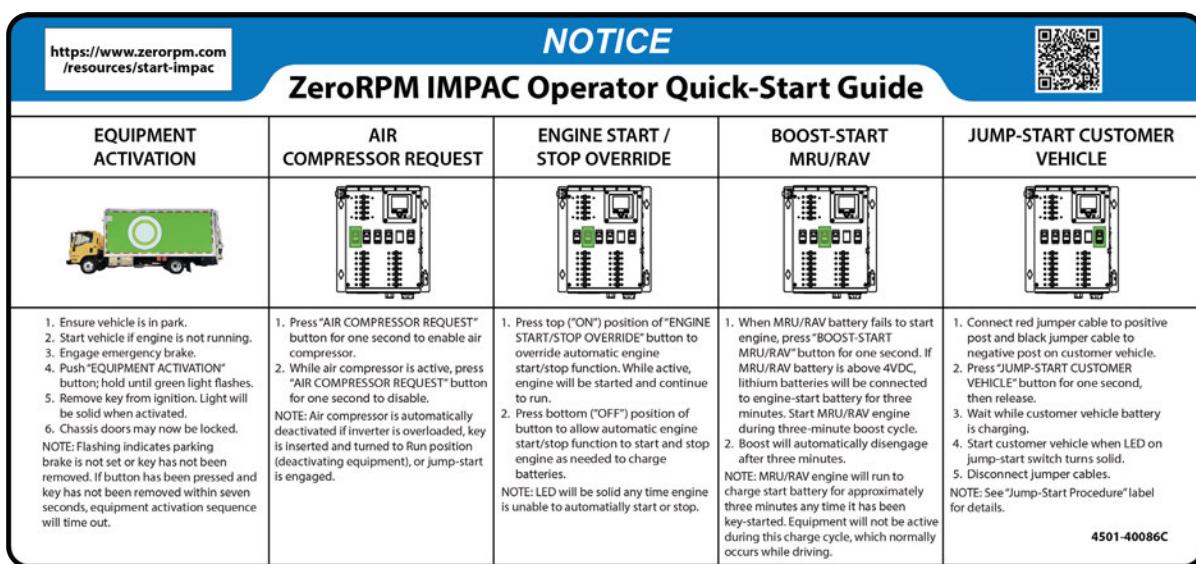
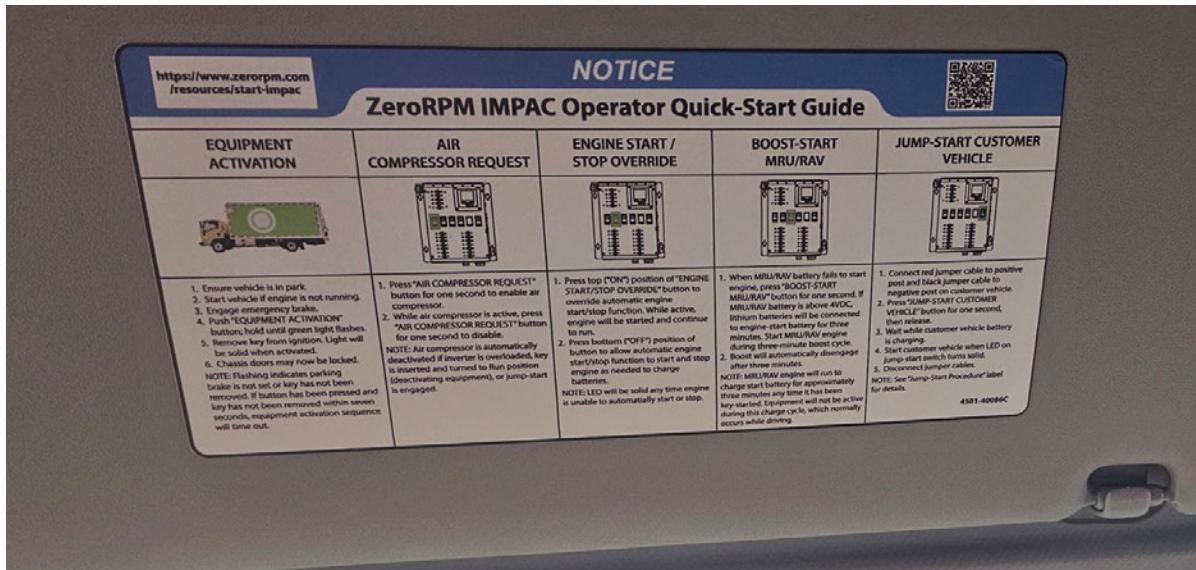
4501-40110A

For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.4.2.2: Driver-side Visor

Part Number	Description	Quantity
4501-40086	Driver-side Visor IMPAC Operator Quick-start Guide	1

Component Location



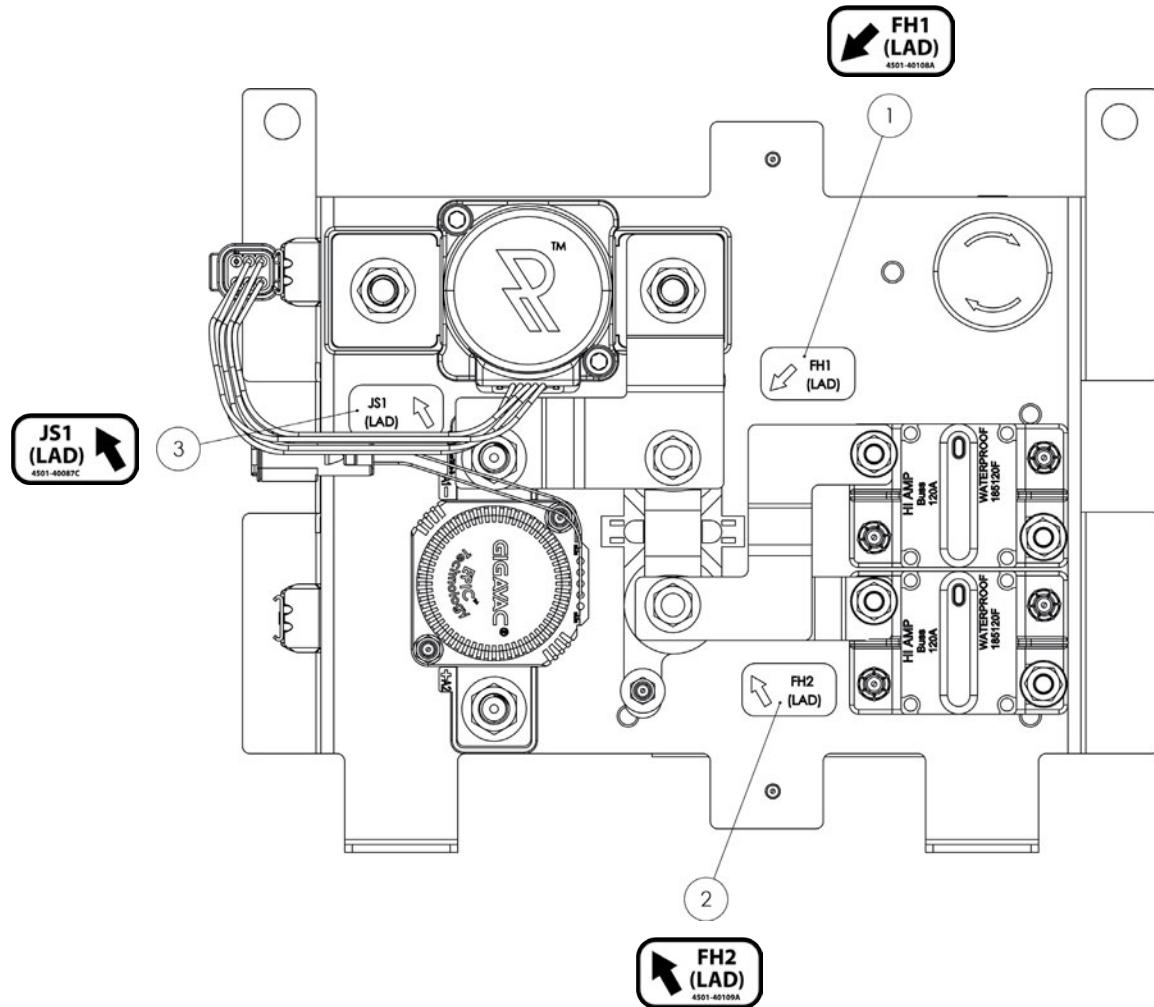
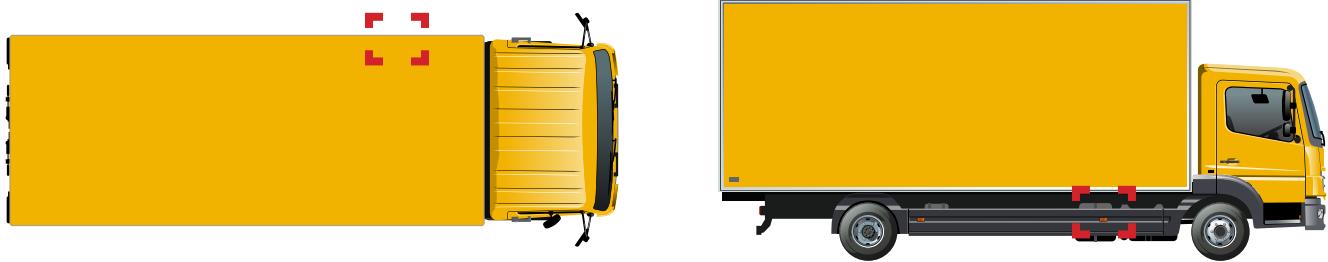
For pricing, email sales@zerorpmp.com or call 1-844-ZERORPM.

Section 3.4.3: Chassis

Section 3.4.3.1: Lead-acid Disconnect

Callout	Part Number	Description	Quantity
1	4501-40108	FH1 (LAD)	1
2	4501-40109	FH2 (LAD)	1
3	4501-40087	JS1 (LAD)	1

Component Location

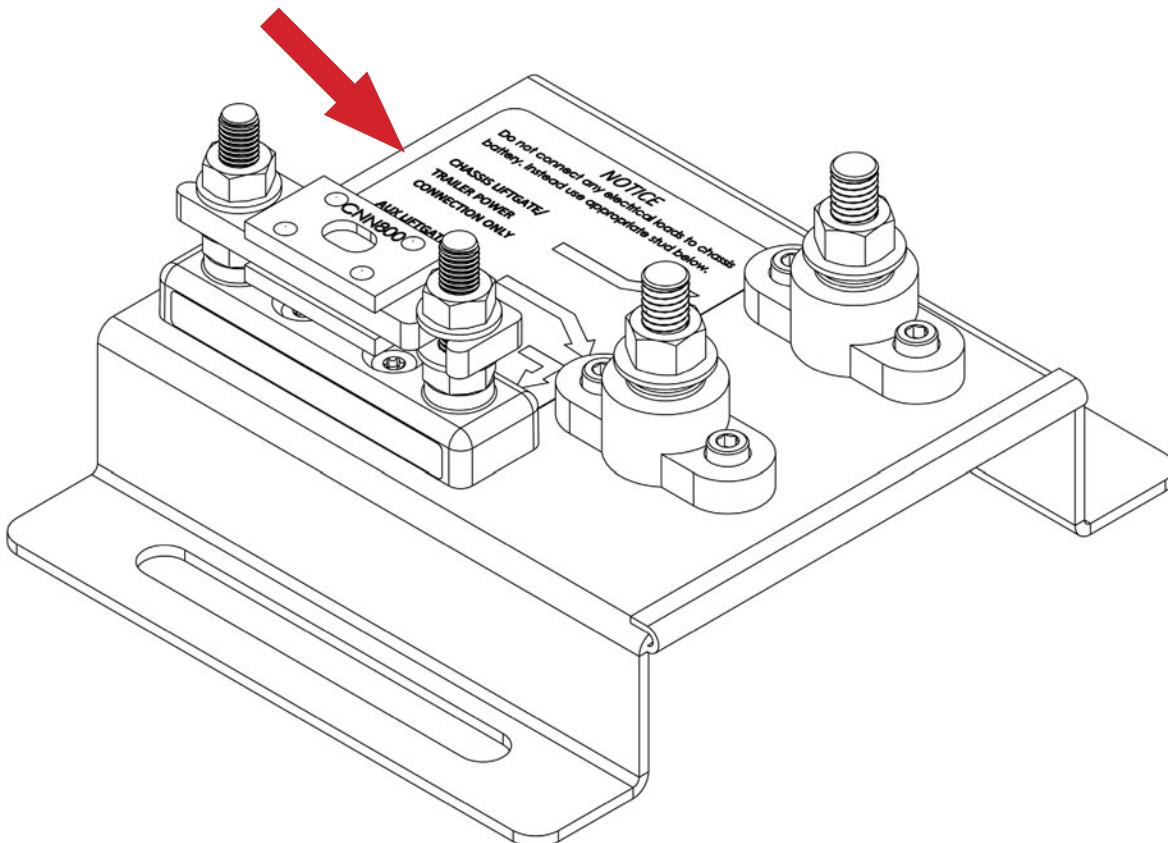
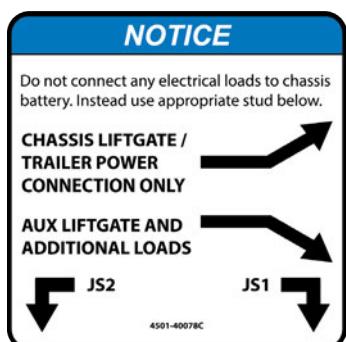


For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

Section 3.4.3.2: Junction Stud Bracket

Part Number	Description	Quantity
4501-40078	Junction Stud Locations	1

Component Location



For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.

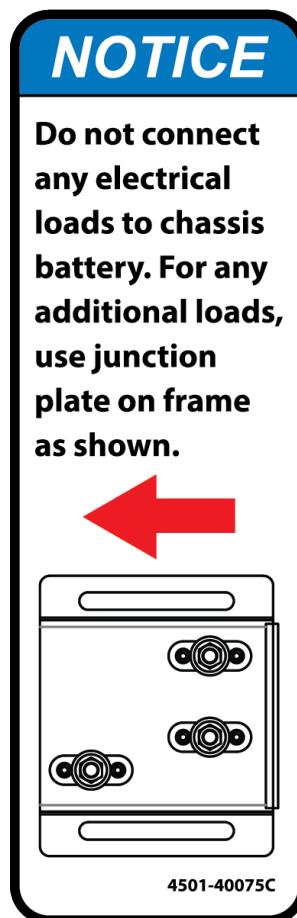
Section 3.4.3.3: Lead-acid Battery

Part Number	Description	Quantity
4501-40070	Hybrid Disconnect Switch Cover	1
4501-40075	Junction Plate Auxiliary Loads — Top	1
4501-40088	Junction Plate Auxiliary Loads — Front	1

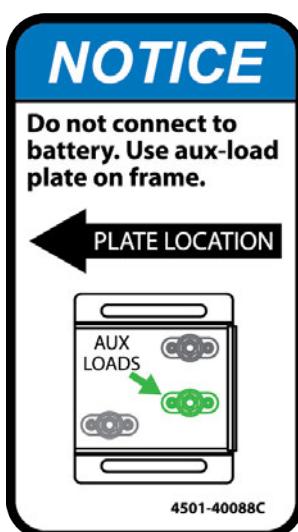
Component Location



4501-40070



4501-40075



4501-40088

For pricing, email sales@zerorpm.com or call 1-844-ZERORPM.