Remote Battery (Electronic) Disconnect Switch Wiring Schematic

Internal Content

For the Remote Battery (Electronic) Disconnect Switch wiring schematic click here. Installation drawing here .

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⚠ CAUTION ⚠

- ☑ These instructions are intended to provide assistance with the installation of this product, and are not a substitute for a more comprehensive understanding of electrical systems. We strongly recommend that a competent electrical professional perform the installation of this product.
- ☑ The illustrated wiring diagram represents a common installation and is not meant to be a guide for wiring a specific vessel. The wiring diagram shows a single battery bank installation.
- ☑ Disconnect all negative battery connections before beginning the installation.
- ☑ All unused control wires should be carefully insulated from each other and from accidental contact using heat shrink tubing or electrical tape. External contact or shorting between control wires can lead to malfunction.

Installation Instructions

Mounting

Install as close as possible to battery bank. To avoid corrosion to connecting wires and terminals, mount in a dry and protected location. Avoid mounting directly above vented lead acid batteries so that the Remote Battery Switch/Solenoid Switch is not exposed to corrosive gasses expelled from the batteries.

High Current Primary Circuit Connections (stud terminals A and B)

For help selecting the appropriate wire size and circuit protection rating, go to www.bluesea.com and click the *Circuit Wizard* quick link.

NOTE: Stud terminals A and B are interchangeable. The load can be connected to A or B; the battery bank can be connected to A or B.

To connect high current circuit wires:

1. Connect the battery bank to one of the stud terminals marked A or B.
2. Connect the load to the other stud terminal marked B or A.
3. Torque the high current terminal stud nuts to 140 in-lbs (15.5 N•m) maximum.

NOTE: If switching an inverter, windlass, bow thruster, etc., the circuit wires must have circuit protection to comply with ABYC guidelines. Wires used for engine starting do not required circuit protection.

Control Circuit Connections (wires contained in the wire harness)

NOTE: The Remote Battery Switch/Solenoid Switch is designed to be controlled by a momentary SPDT switch, or two momentary push button switches. Use 16 AWG wire for the Control Circuit.

To connect DC power to the Remote Battery Switch/Solenoid Switch Control Circuit:

1. Connect the red wire through a 10A (min) circuit protection device to DC+. The power source should be a direct connection to the battery.
2. Connect the black wire to DC ground.

To connect a momentary SPDT Control Switch: (sold separately)

1. Connect the common load terminal of the Control Switch through a 2A (min) circuit protection device to DC+. Use a 24-hour power source (connected directly to the battery.)
2. Connect the brown wire to the CLOSE side of the Control Switch.
3. Connect the orange wire to the OPEN side of the Control Switch.

Optional Remote Indicator Connection: (sold separately)

Use Blue Sea Systems LED 8033 (amber), 8171 (red), or 8172 (green). Install in a convenient location close to Control Switch.

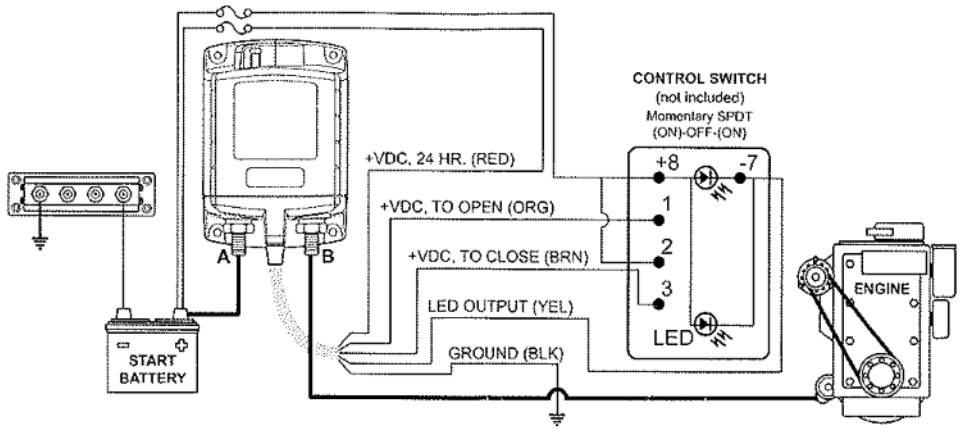
To connect a remote LED indicator:

1. Connect the red wire of the LED to a circuit protected positive source.
2. Connect the yellow wire of the LED to the yellow wire of the Remote Battery Switch/Solenoid Switch Tinned Wire Termination (PNs 7700B, 7702B, 7701B, and 7703B) or the LED output of the Deutch DTM Connector Termination (PNs 7700100B, 7702100B, 7701100B, and 7703100B)

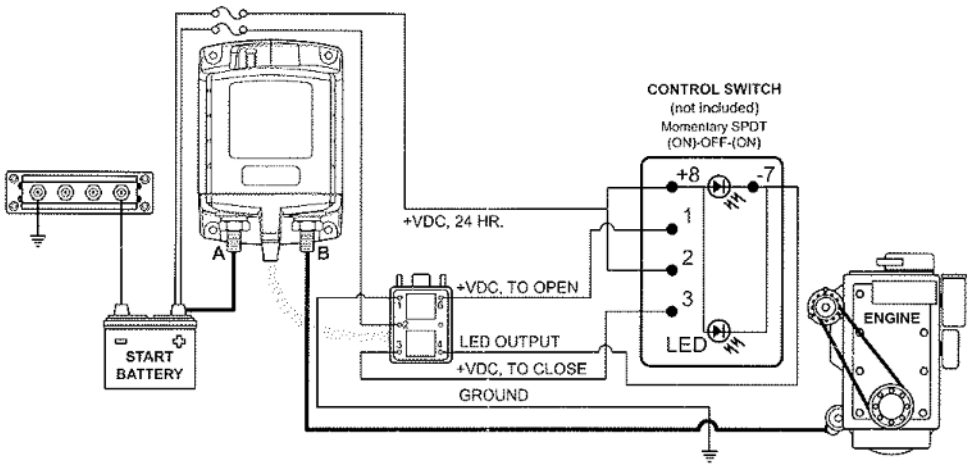
Guarantee

Any Blue Sea Systems product with which a customer is not satisfied may be returned for a refund or replacement at any time.

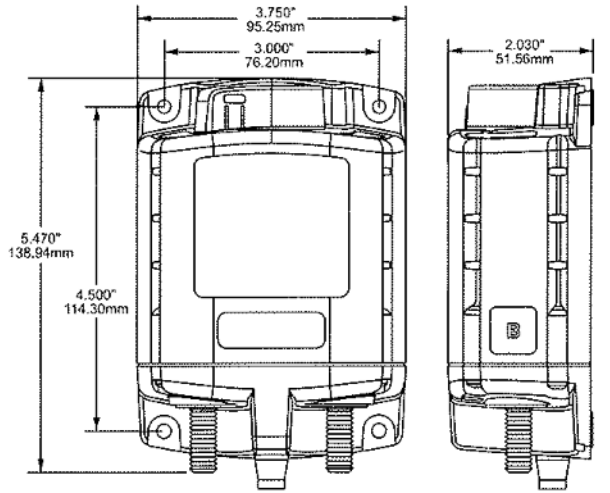
Installation Instructions



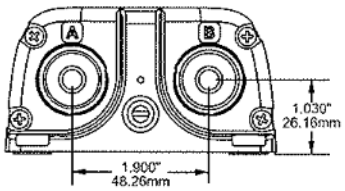
Tinned Wire Termination



Deutsch DTM Connector Termination

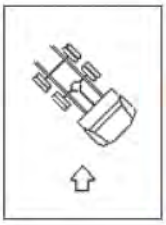


Front View **Side View**



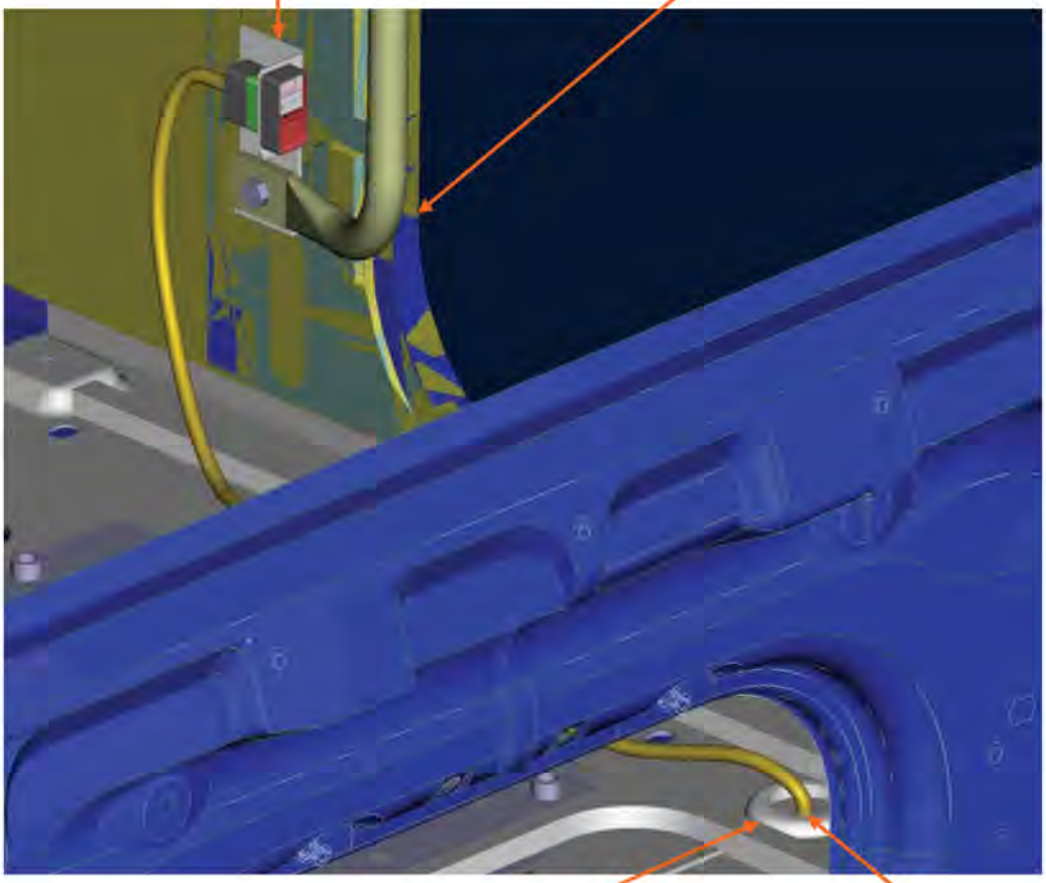
Bottom View

Engineering Release Notice (ERN)	Location	Change Description	A = Added D = Deleted	W = Was	Document Release Status
					RELEASED
		SEE DCN			Date / Modification Count



SEE PAGE 2 FOR SWITCH, AND SWITCH MOUNTING DETAILS

(DRIVER'S SIDE B-PILLAR)



(GROMMET – PART OF HARNESS ASSEMBLY)
NOTE: REFERENCE 20753367 – DRILLING, CAB FLOOR-LEFT SIDE

CONTINUATION POINT A

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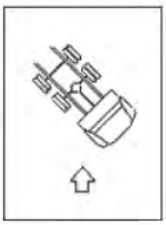
Document Title
INSTALLATION
REMOTE BATTERY DISCONNECT

VOLVO
Group Trucks Technology

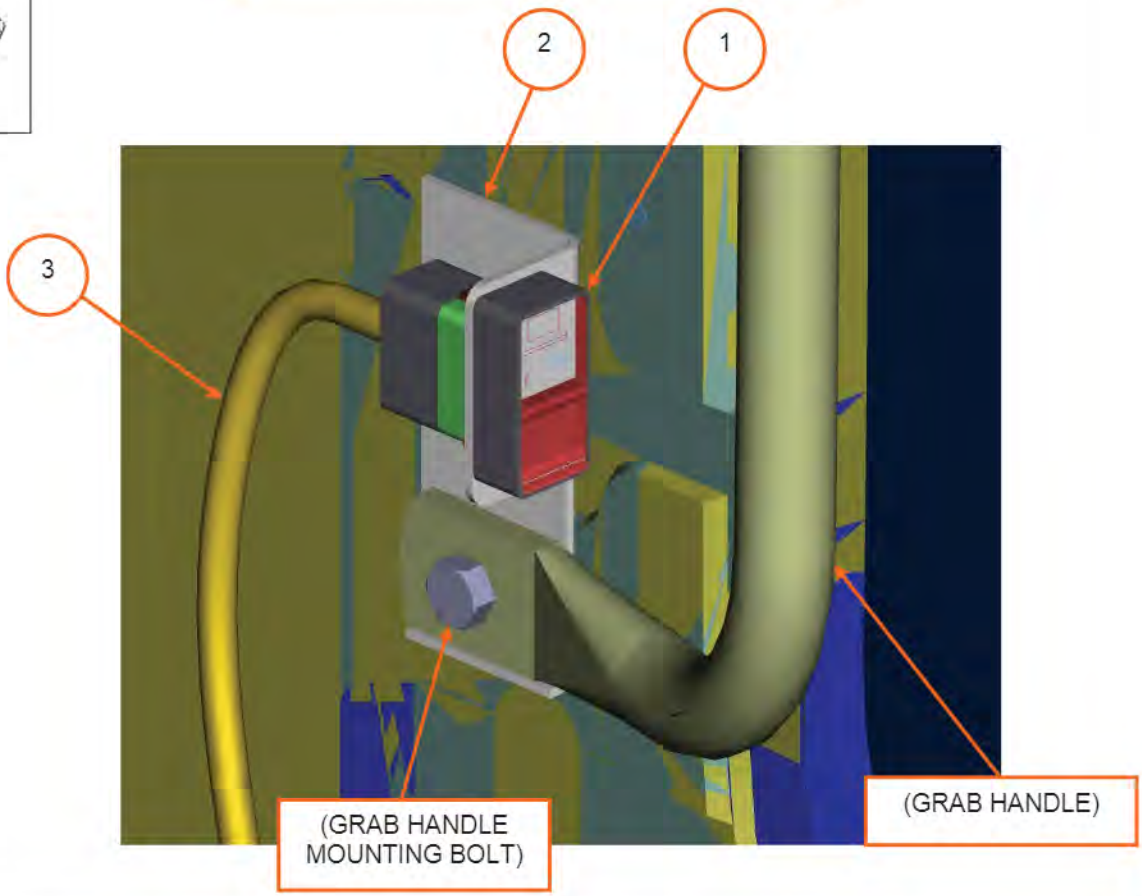
Document Type
INSTALLATION REQUIREMENT

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Document No	Issue Index	Volume No	Page No
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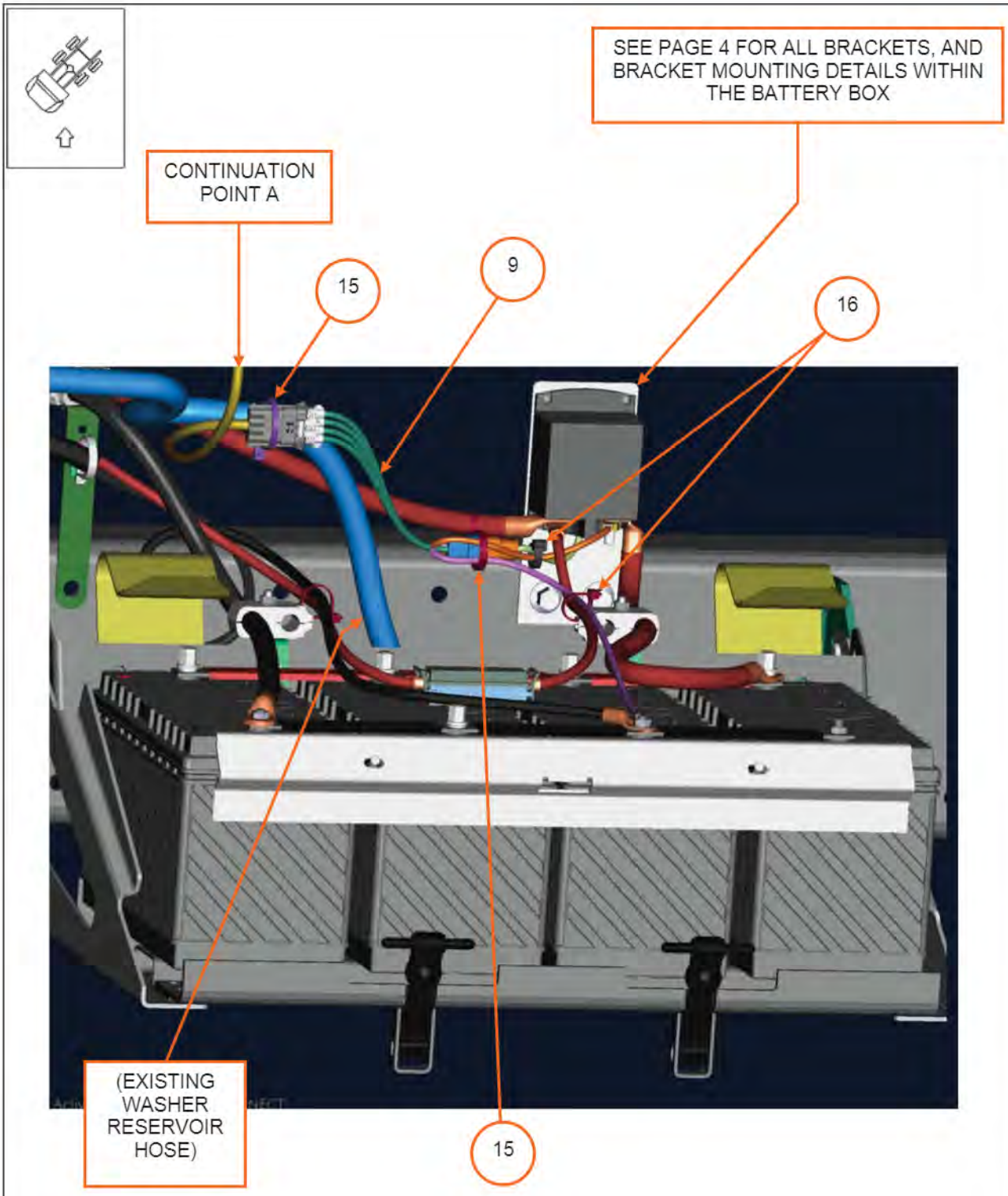
SWITCH DETAIL AND MOUNTING



ADDITIONAL SWITCH DETAIL SPECIFICATIONS



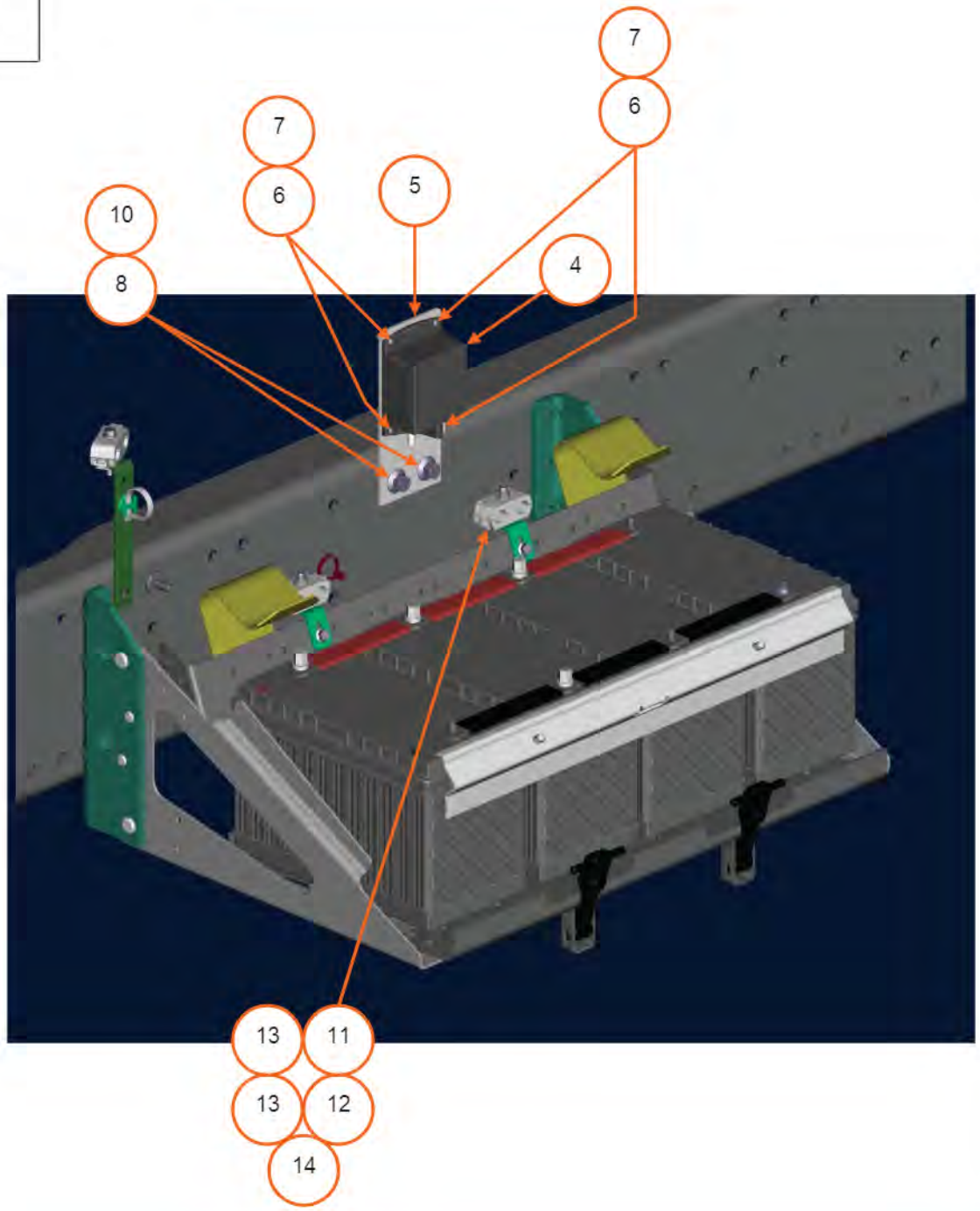
NOTE: AFTER PLACING THE SWITCH THROUGH THE BRACKET OPENING, SQUEEZE THE TABS UP ON THE TOP AND BOTTOM OF THE SWITCH, AS SHOWN, TO SECURE TO THE BRACKET.



APPLY ITEM 17 CORROSION PROTECTION TO ALL EXPOSED RING TERMINALS @ DISCONNECT SWITCH LOCATIONS

APPLY ITEM 18 CORROSION PROTECTION TO ALL EXPOSED RING TERMINALS @ BATTERY LOCATIONS

BRACKET MOUNTINGS INSIDE THE BOX



APPLY ITEM 17 CORROSION PROTECTION TO ALL EXPOSED RING TERMINALS @ DISCONNECT SWITCH LOCATIONS

APPLY ITEM 18 CORROSION PROTECTION TO ALL EXPOSED RING TERMINALS @ BATTERY LOCATIONS

CHART FOR REFERENCE ONLY

ITEM NO.	PART NO.	QTY.	DESCRIPTION	REMARKS
1	21550488	1	SWITCH, 12V	
2	21550494	1	BRACKET, SWITCH	
3	21602981	1	WIRES, DISCONNECT	SECURE TO THE INSIDE CAB FLOOR USING 8020191 – ADHESIVE TAPE (APPROX. EVERY 200mm)
4	21550486	1	SWITCH, BATTERY DISCONNECT	
5	21550492	1	BRACKET, DISCONNECT SWITCH	
6	994780	4	SIX POINT SOCKET SCREW, M5*16	
7	990948	4	FLANGE LOCK NUT, M5*6,2	
8	992336	2	FLANGE SCREW, M14*40	
9	22074855	1	WIRES, DISCONNECT	
10	990953	2	FLANGE LOCK NUT, M14*15,9	
11	20501060	1	BRACKET, CLIPPING	
12	22769572	1	ATTACHING CLAMP, BATTERY CABLE	ORIENT AS SHOWN
13	990950	2	FLANGE LOCK NUT, M8*9,4	
14	984734	1	FLANGE SCREW, M8*20	
15	20395795	2	CABLE TIE, DOUBLE HEAD	
16	980464	2	CABLE TIE, 105	
17	21735985	2 ml	CORROSION PROTECTION, EXTERIOR TERMINAL	@ DISCONNECT SWITCH LOCATION
18	21735988	2 ml	CORROSION PROTECTION, EXTERIOR TERMINAL	@ BATTERY LOCATIONS