LANTANA

REMOTE DRIVER UNIT INSTALLATION GUIDE
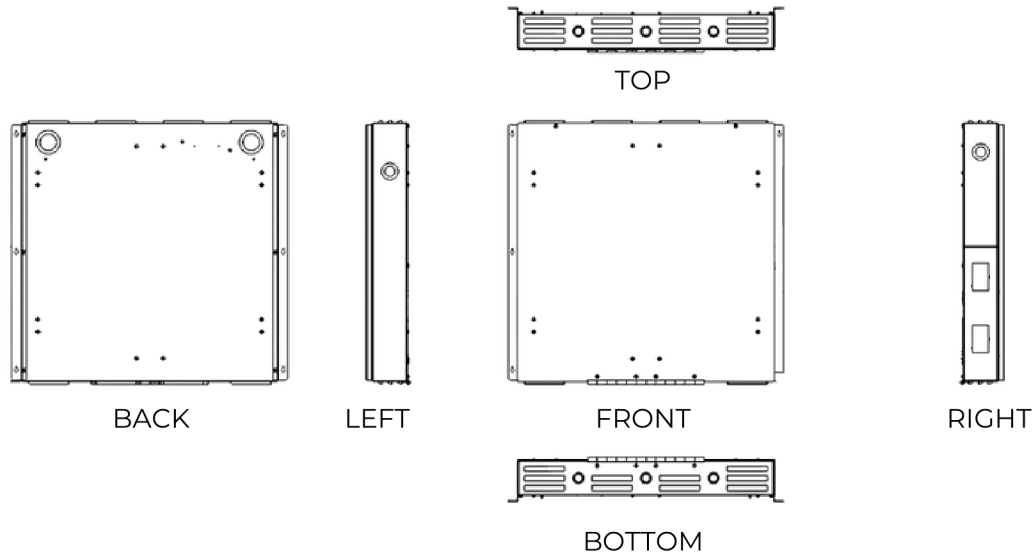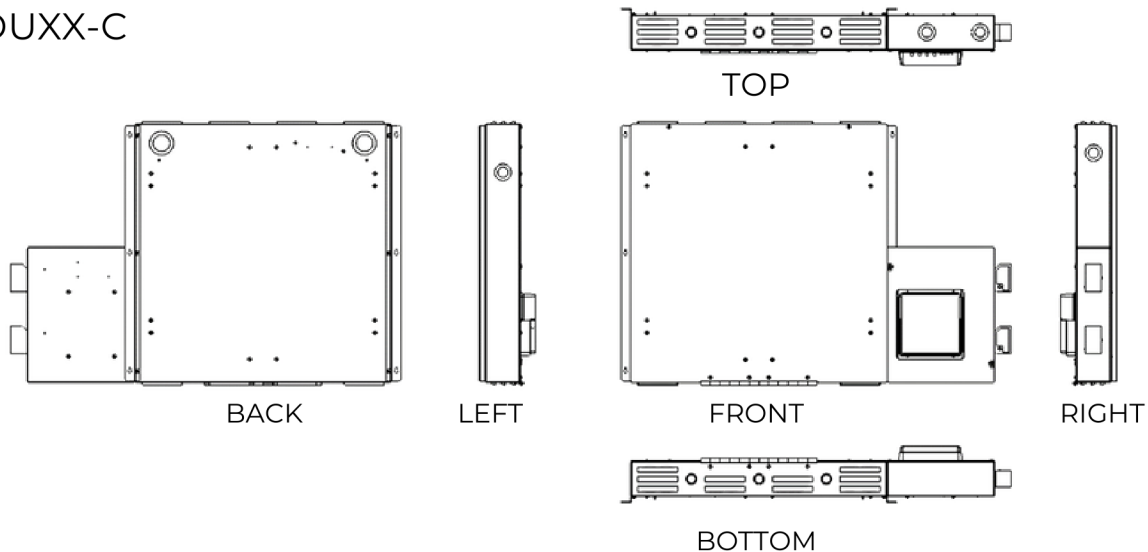
LANTANA

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OVERVIEW

RDU
RDUXX

TOP

BACK LEFT FRONT RIGHT

BOTTOM

RDU-C
RDUXX-C

TOP

BACK LEFT FRONT RIGHT

BOTTOM

PAGE 1

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ENCLOSURE MOUNT

- Secure driver enclosure to wall or unistrut in a vertical orientation with front panel hinge at the bottom.
- Keep at least 6" of space immediately above and below the enclosure for adequate airflow.
- Use #10 screws or larger through flange holes to secure the enclosure to studs, blocking, and/or structural sheathing.

MOUNTING
SLOTS

#10 SCREW
OR LARGER

HINGES
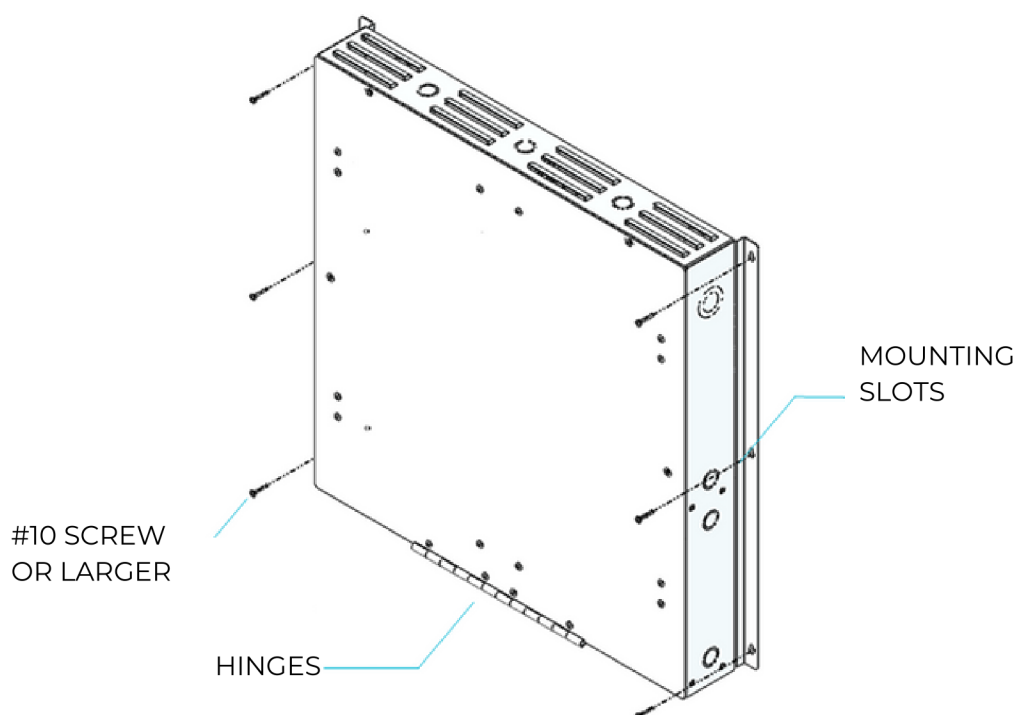
INTERNAL ACCESS

To access the internals, loosen the (2) #10 Phillips screws on the top of the front panel and let the panel swing fully open (approx. 90 degrees). Apply proper support while opening the panel; it is secured using aircraft cables on both sides and weighs ~20 lbs.

#10 PHILLIPS SCREWS

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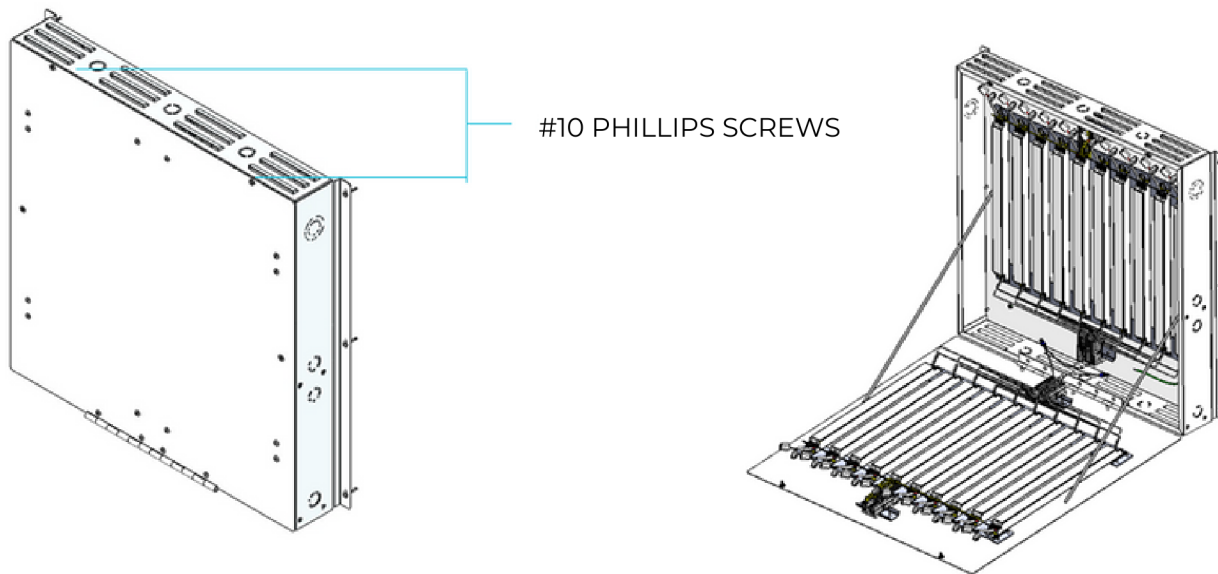
CONTROLS ENCLOSURE MOUNT

RDU-C & RDUXX-C ONLY

To secure the controls enclosure to the driver enclosure:

- Install (4) #10 Phillips screws in the bottom right panel of the driver panel.
- Open the front panel of the control enclosure secured with (2) #8 Phillips screws.
- Align 4 slots on the left panel with 4 screws on the right side of the driver enclosure, slide and tighten the screws.
- Before installing the front panel back onto the control enclosure, connect wiring as shown on the next page.

DRIVER ENCLOSURE

(4) #10 SCREW

CONTROL ENCLOSURE
SLOTS

CONTROL
ENCLOSURE

(2) #8 PHILLIPS SCREWS
SECURING THE PANEL
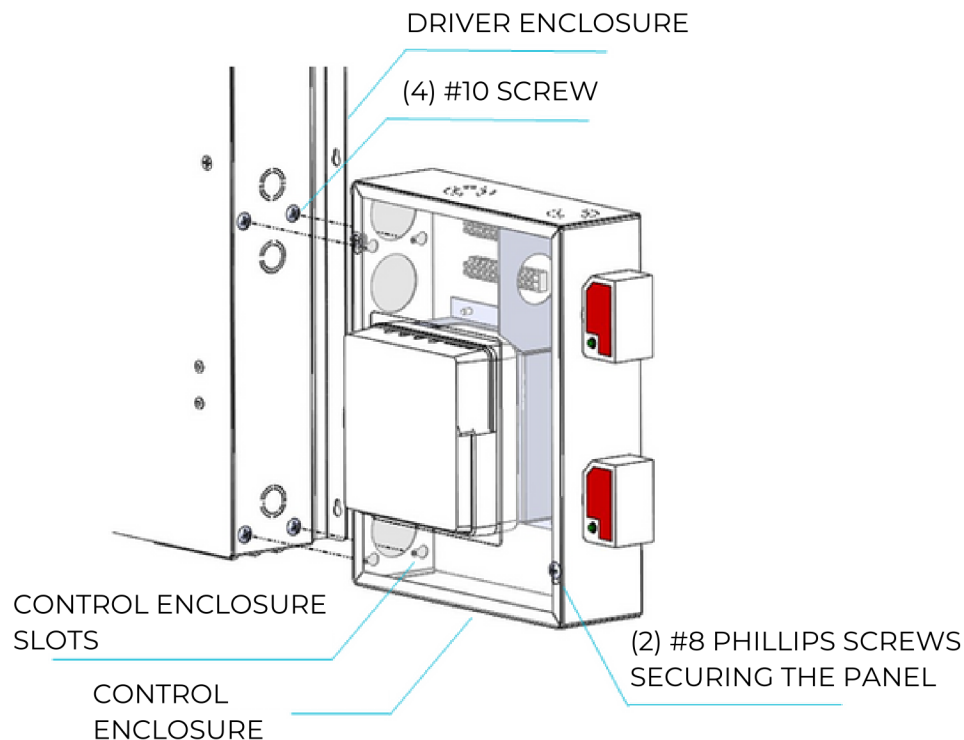
CONNECTOR CONNECTIONS

RDU-C & RDUXX-C
ONLY

Connect the following Molex male connectors with respectively labeled Molex female connectors in the controller enclosure.
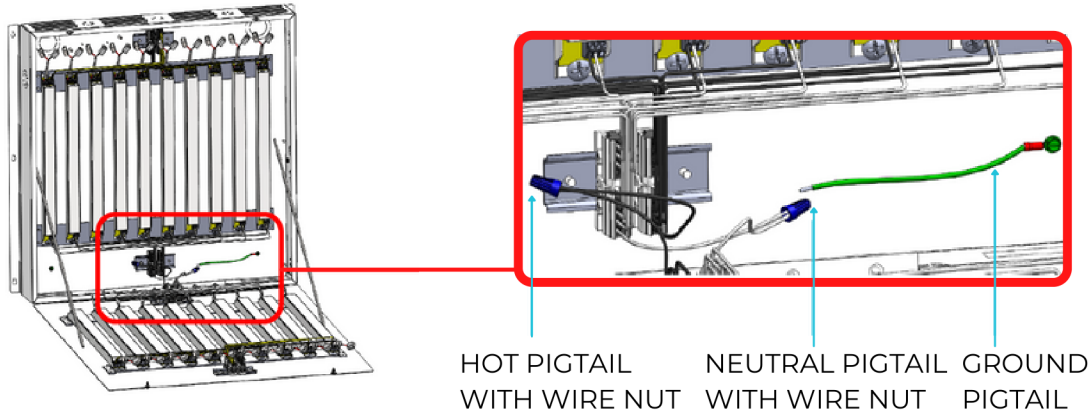
MOLEX CONNECTORS
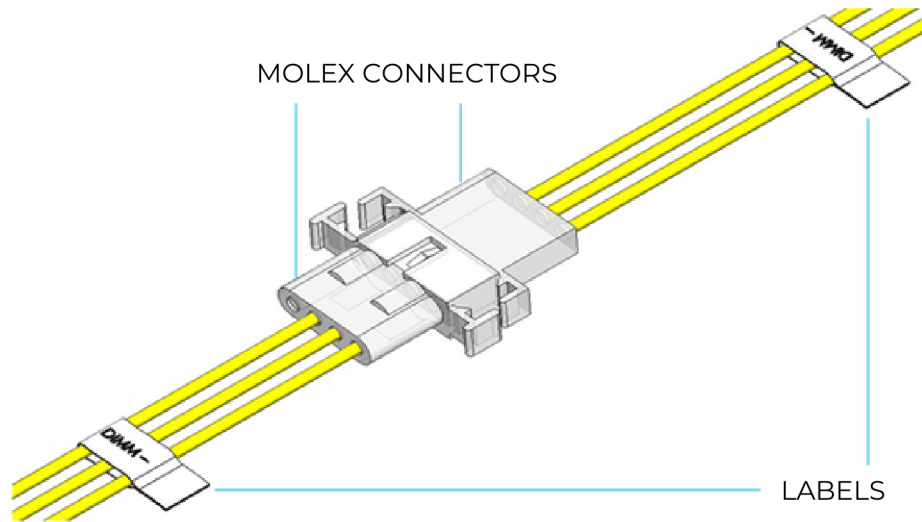
LABELS

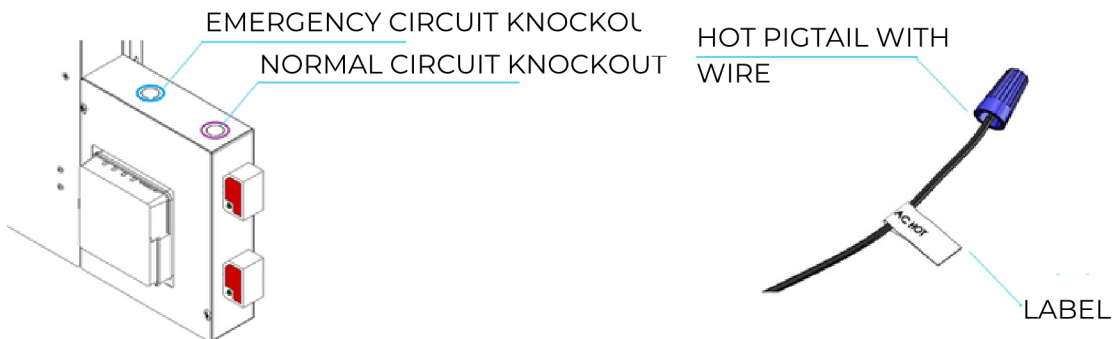| WIRE	LABEL	CONNECTION	CONNECTION TYPE
Yellow	DIMM -	LMRC<-> LED driver terminal	Ecosystem 1
Purple	DIMM +	LMRC<-> LED driver terminal	Ecosystem 2
Red, White,	ECKTX**	ELCU terminal <-> LED driver terminal	Emergency Circuit Zone X
Black	Zone	LMRC terminal <-> LED driver terminal	Normal Power AC
Black, White	Power		

**The number of emergency circuit harnesses varies with the replacement. "X" in the description is a variable to represent a particular number of circuits.

INPUT (AC) CONNECTIONS

RDU & RDUXX

HOT PIGTAIL WITH WIRE NUT   NEUTRAL PIGTAIL WITH WIRE NUT   GROUND PIGTAIL

RDU-C & RDUXX-C

EMERGENCY CIRCUIT KNOCKOUT
NORMAL CIRCUIT KNOCKOUT

HOT PIGTAIL WITH WIRE

LABEL

Install 3-conductor (hot, neutral, ground) 120/277 vac line for the normal circuit to the top left knockout. For the emergency circuit(s), use top-right knockout.

Pigtail labeled wires with corresponding wires from input cable(s) using provided wire nut. See the table below for the label descriptions.

WIRE	LABEL	CONNECTION
Black	Normal Power AC Hot	Normal Circuit
White	Normal Power AC	Normal Circuit
Black	Neutral	Emergency Circuit X**
White	EX AC Hot**	Emergency Circuit X**
Green	EX AC Neutral**	Common
	Ground Green	

**The number of emergency circuit harnesses varies with the replacement. "X" in the description is a variable to represent a particular number of circuits.

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ECOSYSTEM CONNECTION

Bring in ecosystem loop wiring from the external control system through either of the knockouts shown in blue.

Connect ecosystem loop wiring through either terminal.


ECOSYSTEM
TEMINALS
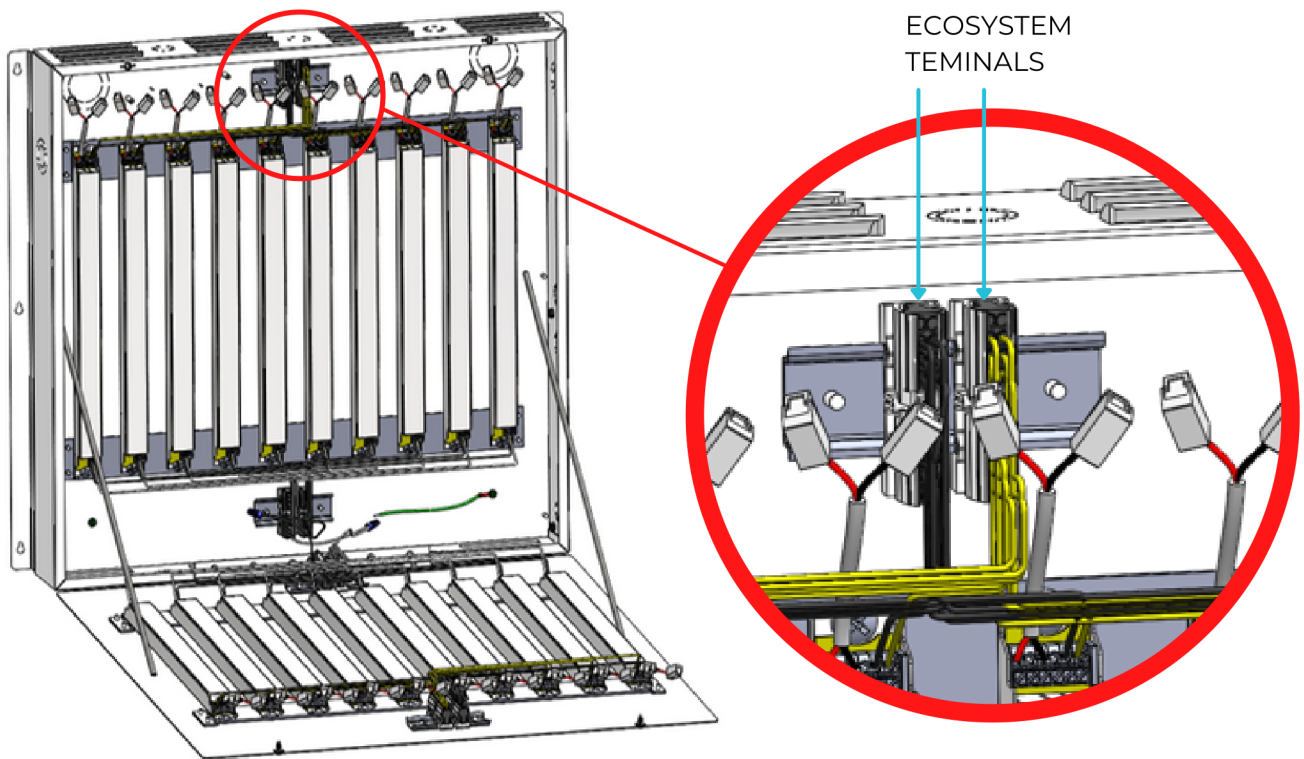
REMOTE FIXTURE (DC) CONNECTION

Run a remote power cable (cl2 wire) from each lantana luminaire to the RDU through one of the nearby knockouts.

Insert stripped ends of cables into the pair of connectors coming from each driver, matching red and black conductors. It does not matter which fixture is connected to which driver, unless assigned to specific zones.
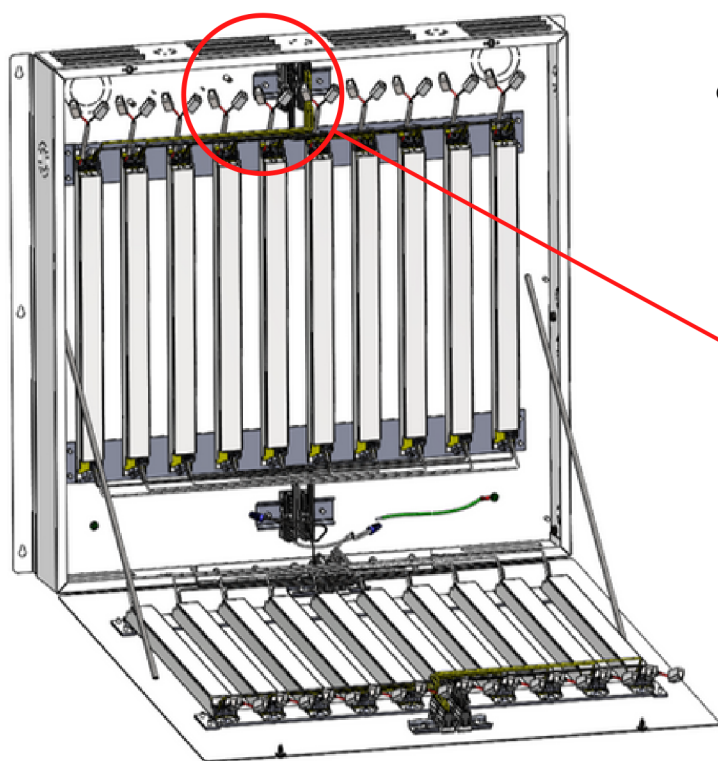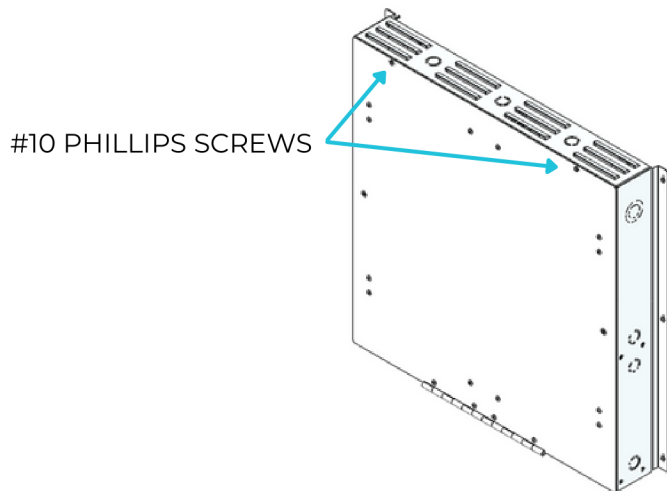
RED
POSITIVE
CONNECTOR

BLACK
NEGATIVE
CONNECTOR
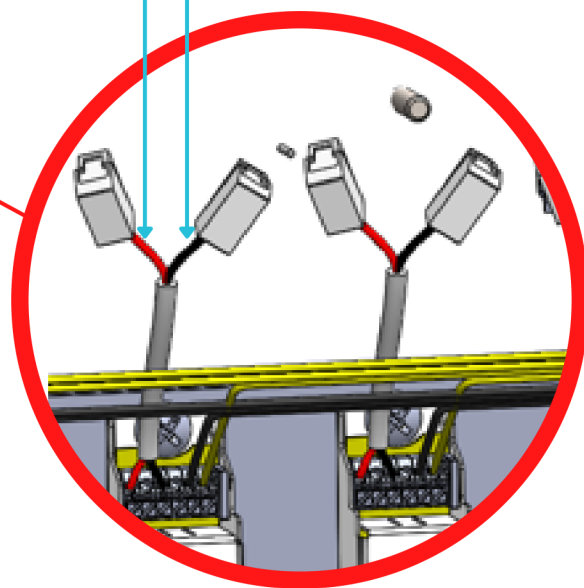
SECURE AND ENERGIZE

Attach the front panel of the driver enclosure by tightening #10 Phillips screws. Secure the controller enclosure using #8 Phillips screws. Finally, energize the input power circuit.

RDU & RDUXX

#10 PHILLIPS SCREWS

RDU-C & RDUXX-C

#10 PHILLIPS SCREWS

#8 PHILLIPS SCREWS