CONTENTS OF THE KIT

Qty 8... #6-32 screws
Qty 8... Standoffs
Qty 1... USB cable
Qty 1... USB disk
Qty 8... Battery cables
Qty 1... 14 AWG Grounding wire
Qty 1... #8 x 1/4" ground screw

1 DIP SWITCH (SW2) SETTINGS FOR RS-485

Figure 1: DIP Switch settings for RS-485

Each card must have a unique RS-485 address.
Use DIP switches 1-6 to set the RS-485 network address. See LT-980 for details.
Set DIP switch 8 off to get an IP address from the DCHP server.
Set DIP switch 8 on to get an IP address from the TX3 Configurator software.

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2 MOUNT AND WIRE THE CARD ACCESS CONTROLLERS (CONTROL BOARDS)

- Mount each control board so that the mounting posts align and the P7 LED display port is on the left. (The orientation of the boards is not the same as in the single board cabinet.)
- Mount up to 4 control boards in the enclosure.
- Mount the control boards in two layers using the standoffs.
- After you mount each control board, connect the RS-485 wires and other inputs and outputs as described on pages 2 and 3.
- After you mount each control board, connect the LED ribbon cable to the P7 LED display port.

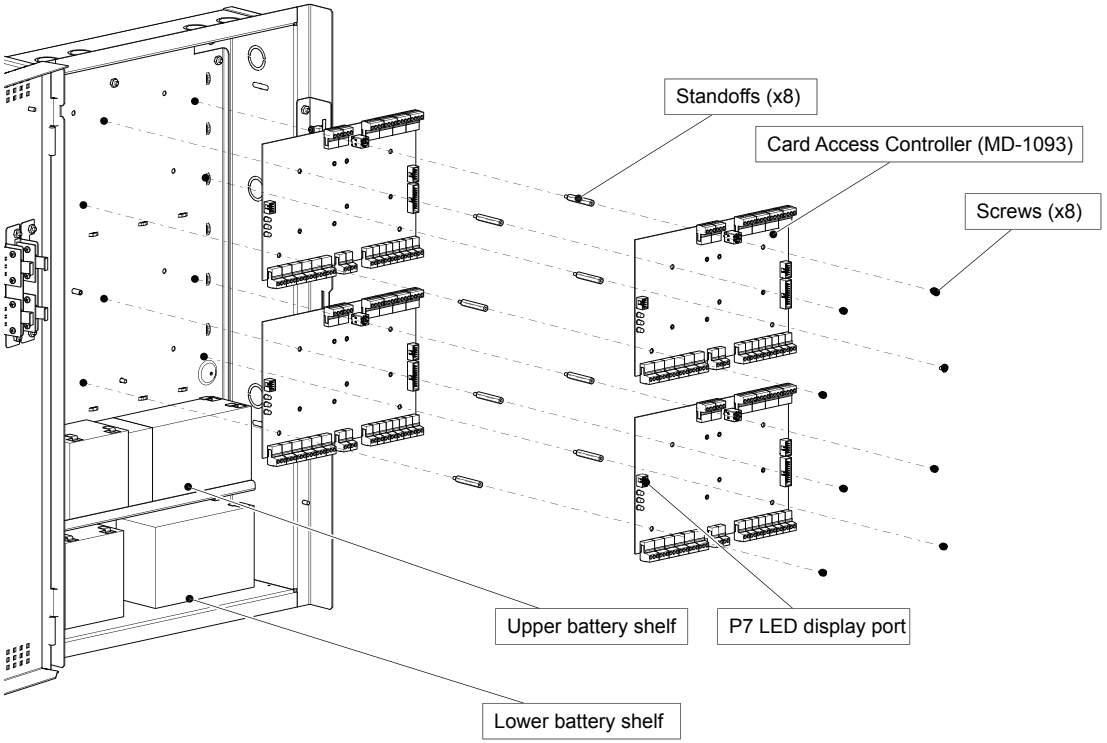


Figure 2: Mounting the card access controllers

TX3-BBCX-4W Assembly

Warning: Turn the power off before wiring.

Before you begin
Unless specified otherwise, all wiring is a maximum length of 1000 ft (304.8 m).
The RS-485 wiring maximum length is 4000 ft (1219.2 m).

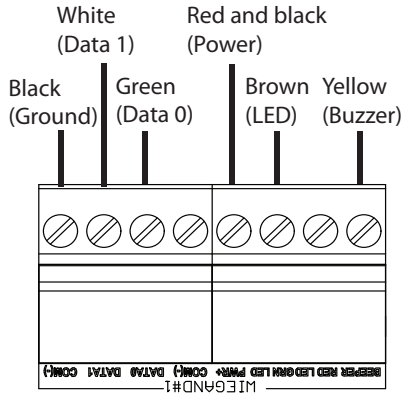
Note: In the TX3-BBCX-4W, the board is rotated so that the front door LED connector on the left. Make allowances for all configurable features such as DIP switches.

3 WIEGAND CONNECTIONS

Connection color scheme for a Mircom reader.
Maximum distance: 500 ft (152.4 m)

Use 20 AWG for 500 ft (152.4 m)

Use 22 AWG for 250 ft (76.2 m)

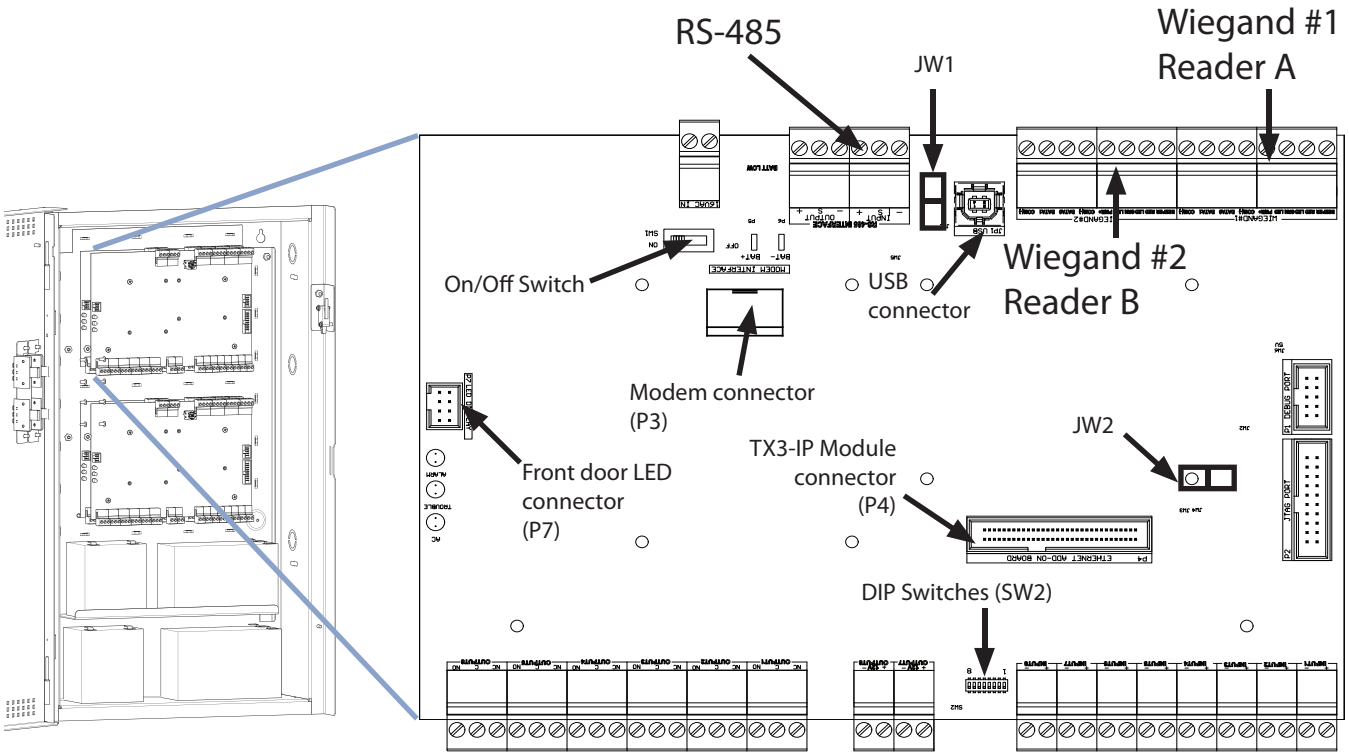


4 INPUTS AND OUTPUTS

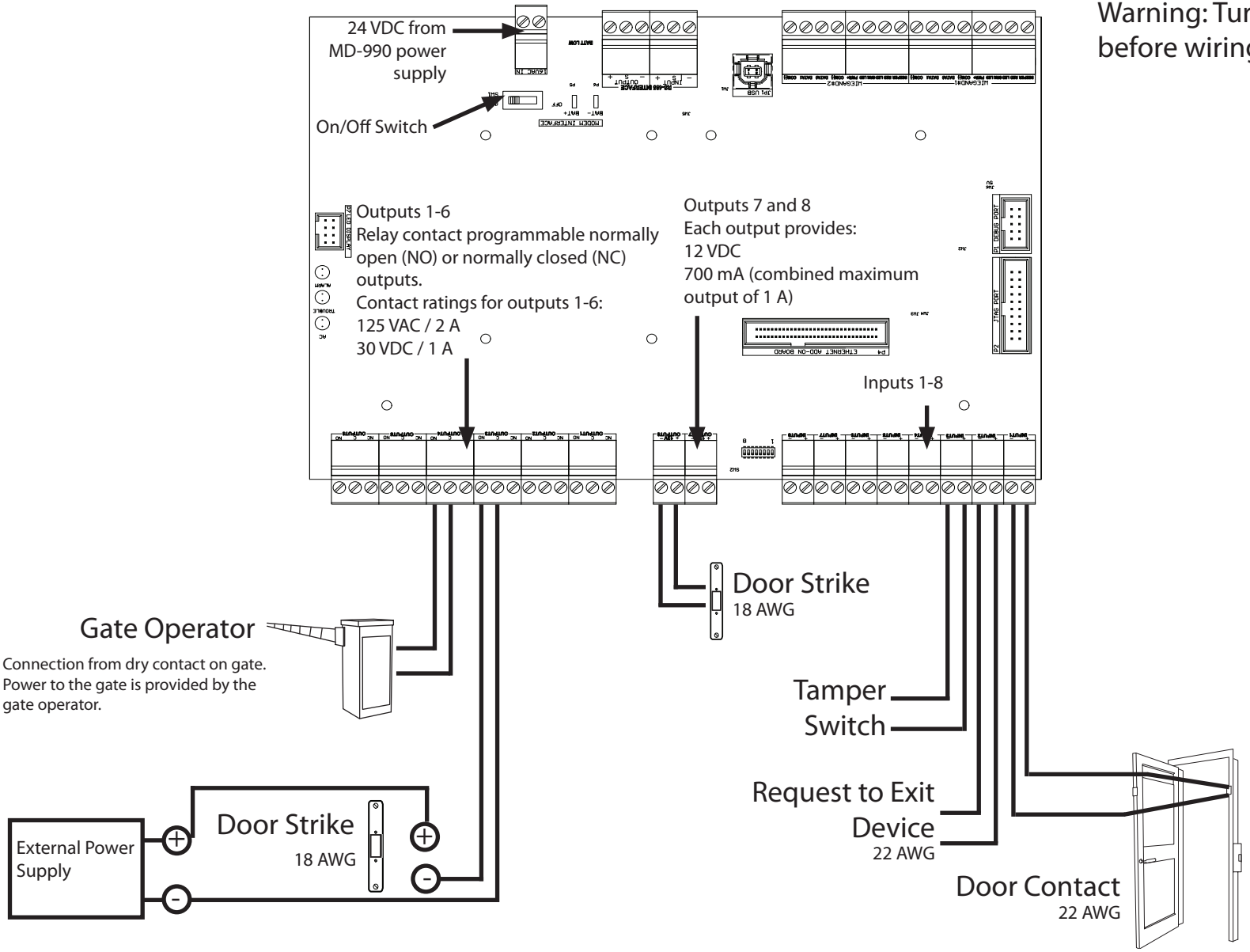
The wiring diagram on the next page shows some example connections.
The outputs and inputs can be configured in the TX3 Configurator software. The default settings are listed below.

Input 1: Reader A door contact
Input 2: Reader A Request to exit
Input 3: General purpose
Input 4: General purpose
Input 5: Reader B door contact
Input 6: Reader B Request to exit
Input 7: General purpose
Input 8: General purpose

Output 1: Reader A lock
Output 2: Reader A handicap
Output 3: General purpose
Output 4: General purpose
Output 5: Reader B lock
Output 6: Reader B handicap
Output 7: General purpose
Output 8: General purpose



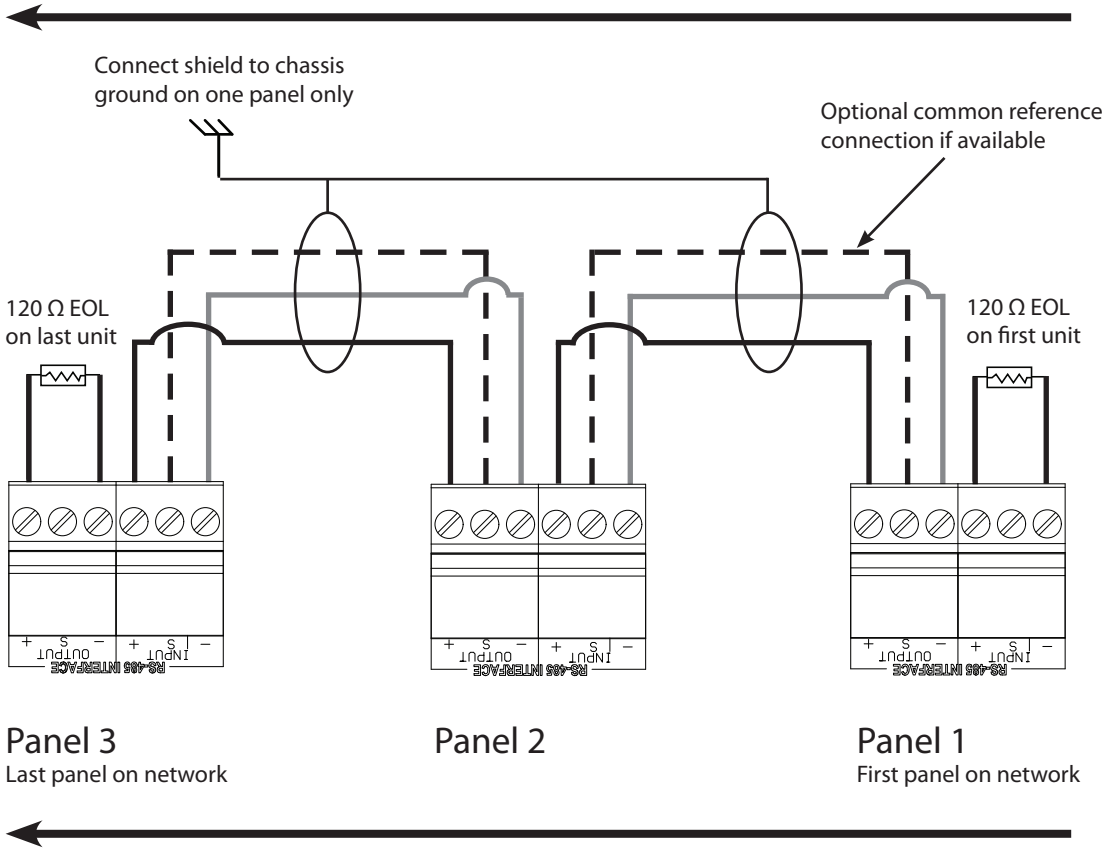
TX3-BBCX-4W Assembly



Warning: Turn the power off before wiring.

5 RS-485

22 AWG
Maximum length: 4000 ft (1219.2 m), twisted shielded pair
This example shows 3 panels connected from right to left.



6 GROUND

1. Make sure that the power is off.
2. Attach one end of the supplied 14 AWG wire to the chassis ground terminal and connect the other end to the site ground (water pipe).

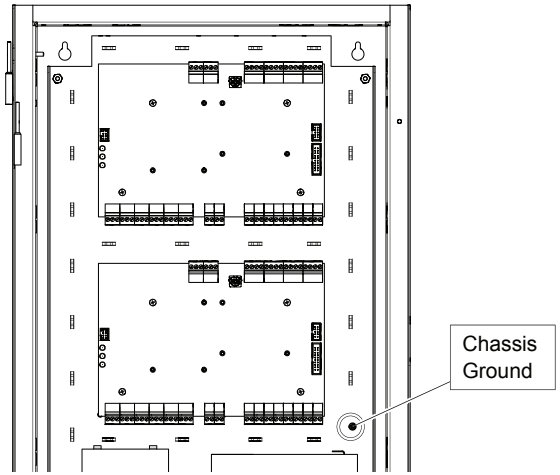


Figure 3: Chassis ground

7 MOUNT THE MD-990 POWER SUPPLY

The power supply enclosure is shown in Figure 4 (for clarity the power supply is not shown).

1. Find a suitable location for the power supply enclosure, such as over a wall stud.
2. Using the power supply enclosure as a template, mark the back mounting hole locations as indicated in Figure 4. Ensure that at least one side is over a wall stud.
3. Remove the power supply enclosure and place two screws halfway into the top marked hole locations and wall stud.
4. Place the power supply enclosure onto the two screws.
5. Screw two screws into the bottom holes.
6. Tighten all four screws into place.

The enclosure can also be mounted directly onto the drywall using anchors.

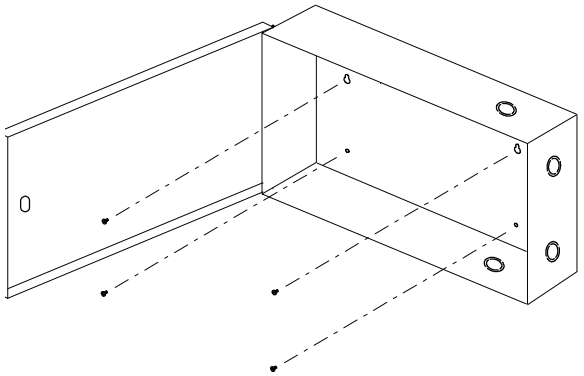


Figure 4: Power supply enclosure

8 CONNECT AC POWER

1. Make sure that the power is off (the On/Off Switches on the card access controllers are off).
2. Connect the MD-990 load power supply wires to the 16 VAC IN terminals on the first card access controller.
3. Connect the other card access controllers to the first one in parallel (daisy chain).
4. Connect the building power supply wires to the MD-990 line terminal screws as shown in Figure 5.
5. Connect the other end of the building power supply wires the line voltage terminals.

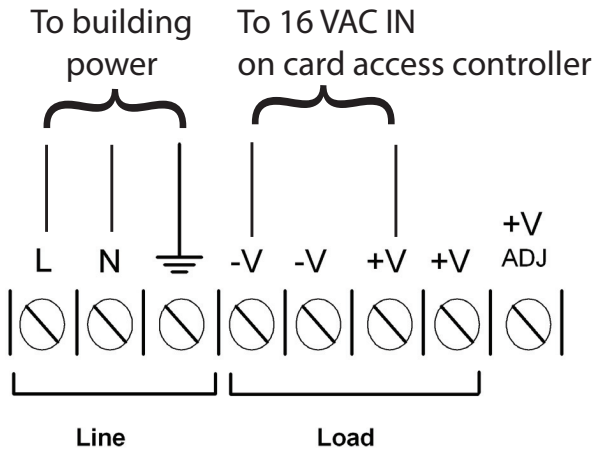


Figure 5: Terminal block wiring

9 CONNECT THE BATTERIES

There are two battery shelves.

1. Connect the two upper control boards to the batteries on the top shelf with the longer cables.
2. Connect the two lower control boards to the batteries on the lower shelf with the shorter cables.
3. Connect the battery cables to the BAT + (red) and BAT - (black) terminals on the control boards.

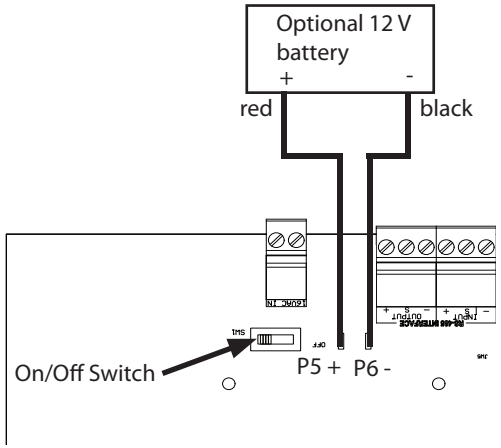


Figure 6: Battery connections on the board

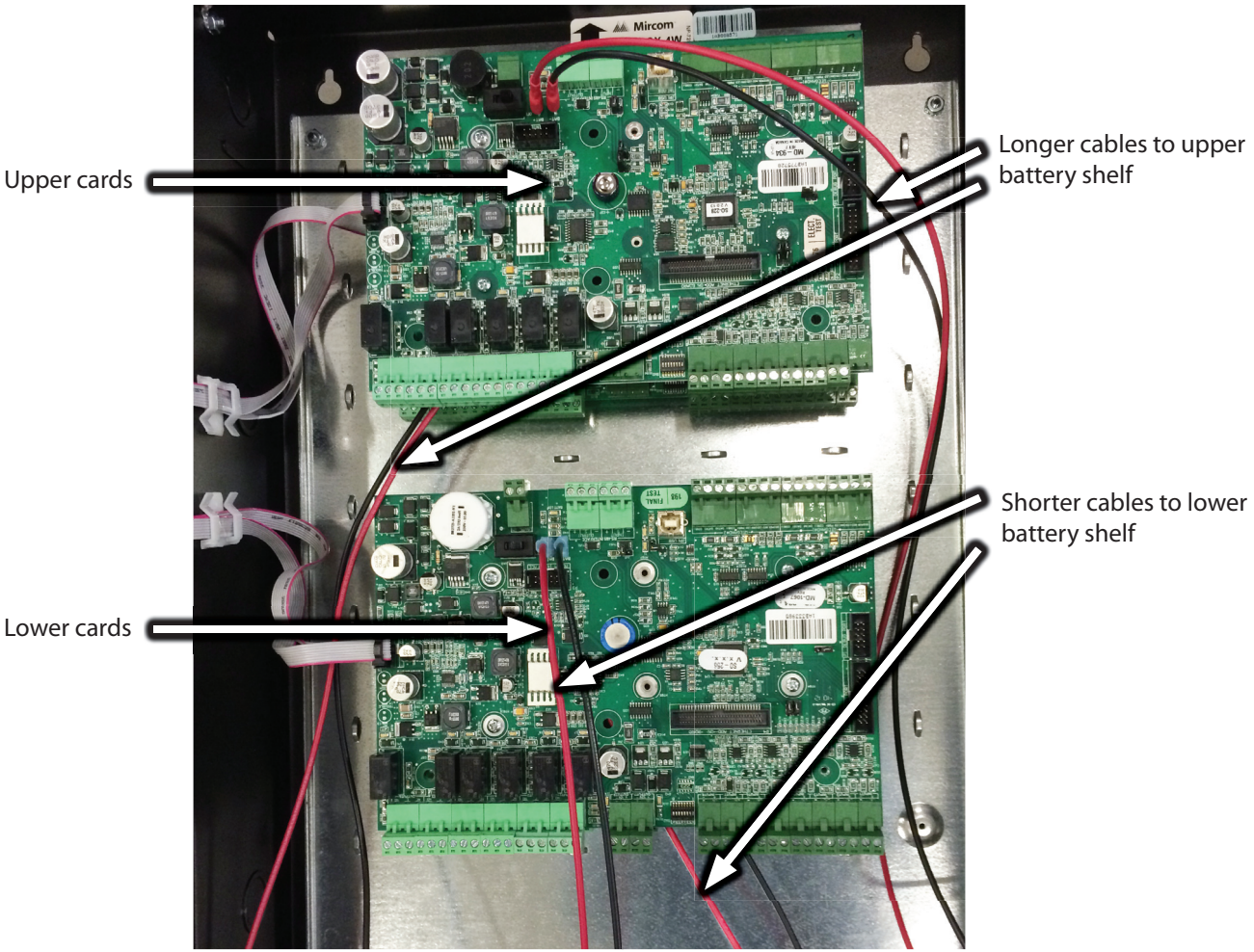


Figure 7: Connecting the card access controllers to the batteries