

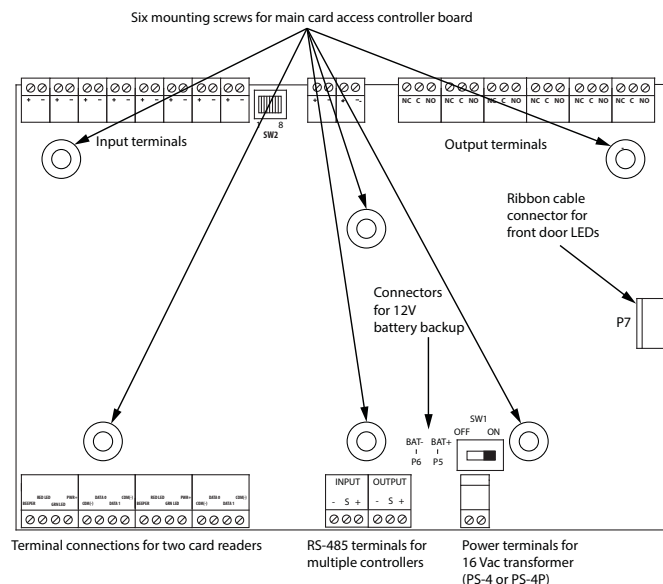
# RB-MD-1093 Replacement Controller Board Installation Instructions

The kit contains:

- 4 x screws
- 4 x standoffs
- 2 x long (40") battery cables (1 red and 1 black)
- 2 x short battery cables (1 x 16" red cable and 1 x 24" black cable)
- 3 x 22" wires for RS-485 (red, black and white)
- 3 x 3" wires for RS-485 (red, black and white)

## Instructions for Replacing the Controller Board in TX3-CX-2K-A

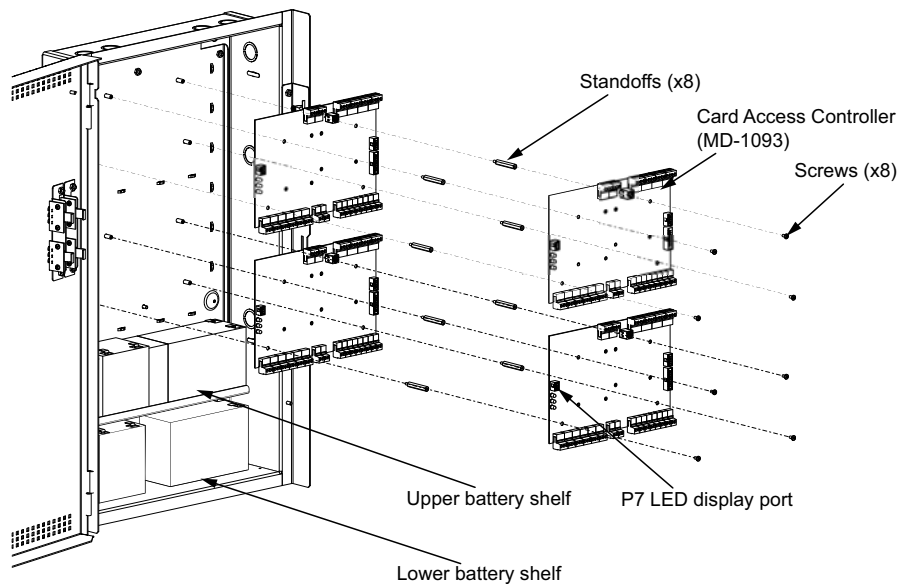
1. Set the RS-485 address on the new controller board. See LT-980 on [www.mircom.com](http://www.mircom.com) for details.
2. Turn off the current main controller board (see SW1 in Figure 1).
3. Disconnect the backup battery from the current main controller board.
4. Disconnect the power connector from the current main controller board.
5. Disconnect the ribbon cable from P7 on the current main controller board.
6. Disconnect all input, output, and networking connectors from the current main controller board.
7. Unscrew the six screws that hold the current board in place.
8. Remove the current board and replace it with the new MD-1093 main controller board.
9. Secure the new board with the six screws you removed in step 7.
10. If there are any daughter boards attached to the old board, remove them, and then install them on the new board.
11. Connect all the input, output, and networking harnesses that you removed in step 6 to the new board.
12. Connect the ribbon cable to P7 on the new board.
13. Connect the power connector to the new board.
14. If present, connect the backup battery to the new board.
15. Turn on the main controller board.



**Figure 1 Controller board mounting holes**

## Instructions for Adding Another Controller Board to TX3-CX-4K-A and TX3-CX-6K-A

1. Set the RS-485 address on the new controller board. See LT-980 on [www.mircom.com](http://www.mircom.com) for details.
2. Turn off the current all controller boards (see SW1 in Figure 1).
3. Disconnect the backup batteries from all controller boards.
4. If you are mounting the new controller board on top of an existing controller board, use the 4 included standoffs as shown in Figure 2.
5. Connect the LED ribbon cable to the P7 LED display port.
6. Connect the RS-485 terminals with the included wires as shown on page 3.
7. Connect the optional batteries with the included wires as shown page 4.
8. Connect the backup batteries to the other controller boards.
9. Turn on the controller boards.



**Figure 2** Mounting controller boards in the TX3-CX-4K-A and TX3-CX-6K-A chassis

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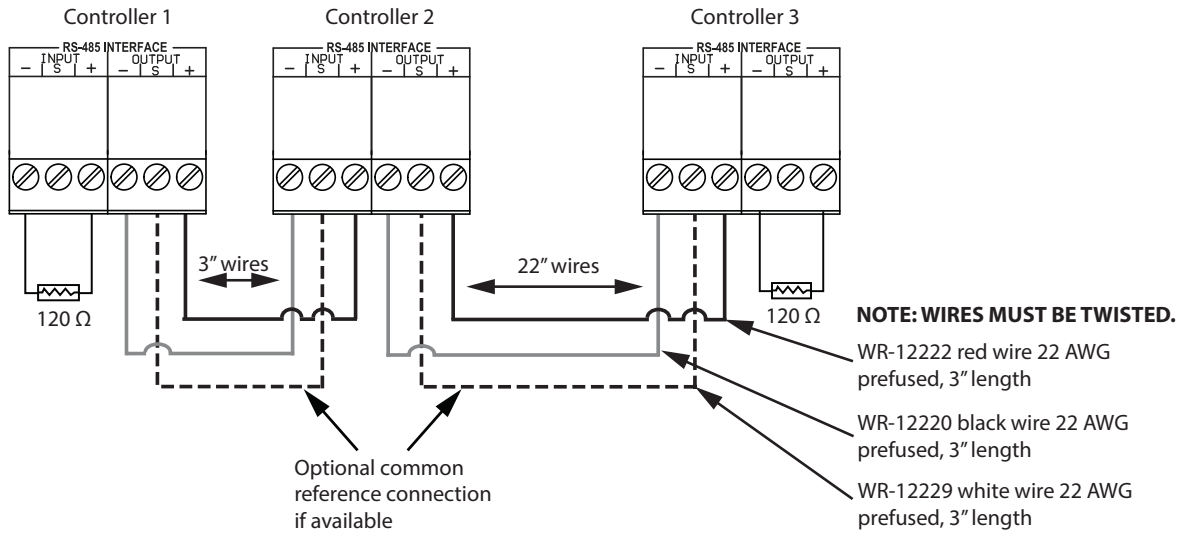
**Local:** 905-660-4655

For more information, see LT-980

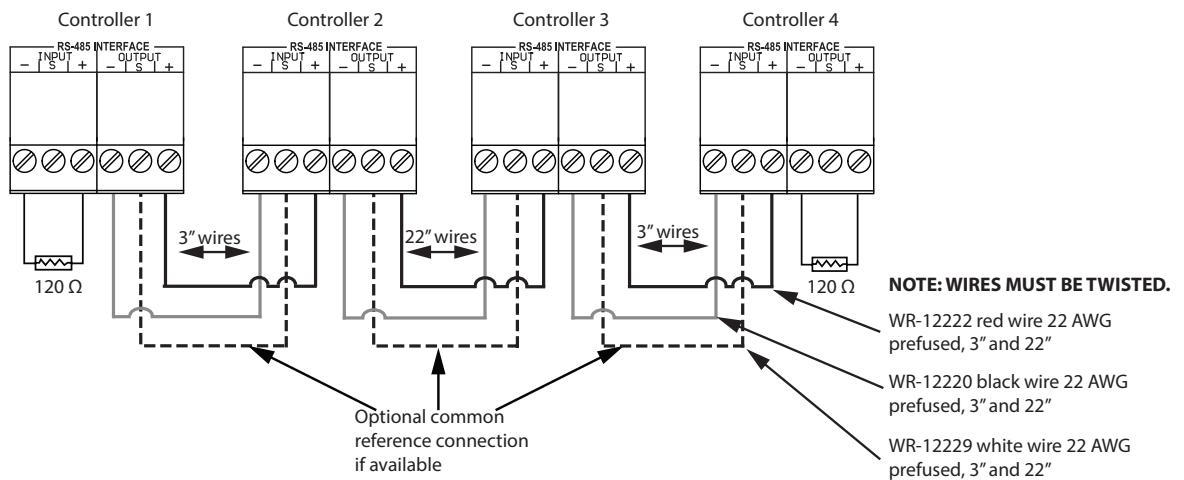
on <http://www.mircom.com/tx3>

Mircom technical support: 1-888-647-2665

## RS-485



**Figure 3 RS-485 wiring with 3 controller boards**



**Figure 4 RS-485 wiring with 4 controller boards**

## Connect the Optional Batteries

There are two battery shelves.

- Connect the two upper controller boards to the batteries on the top shelf with the longer cables.
- Connect the two lower controller boards to the batteries on the lower shelf with the shorter cables.
- Connect the battery cables to the P5 BAT+ (red) and P6 BAT- (black) terminals on the controller boards.

