# MiTek SERVICE BULLETIN

## Document ID:

Title:

## Installing the Second Electrical Enclosure for Dual Zone Setup

Affected machinery: RailRider® Pro

Distribution: All customers with affected frames

Applies to: *RailRider<sup>®</sup> Pros* built in late 2022 to mid 2023 that did not receive a Dual Zone electrical enclosure

Effectivity: Frames RRP- 501,503,504,506,507,510,511,513-7,521,526,528,532,535,537,540, 542,543,546,547,549,552-8,561-4,566,570,572,573,575,576,578-86,590,651,652,655,658

CAUTION: MiTek recommends printing	Part # and Rev.	SB263 rev. B		
this document in high resolution using color ink.	Print Date	15 March 2024		
Many of the graphics may be	Effectivity	See above		
unsafe condition if this	Revision Date	15 March 2024		
followed.	Revised By	M. Farmer		
MiTek Automation	Orig. Release Date	21 December 2023		
Phone: 800-523-3380	Created By	M. Farmer		
Fax: 636-328-9218 www.mitek-us.com	Approved By	R. Tucker		

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### NOTICE

An RMA will be included with your kit. Please reuse the provided packaging for securing the removed PLC, and contact MiTek to arrange pickup.

MiTek Automation Support 1-800-523-3380

## **Purpose and Scope**

Customers in need of dual zone setups were given a second single zone electrical enclosure, instead of a dual zone electrical enclosure. This kit instructs on how to connect the second single zone enclosure to the machine, and how to replace the main PLC.

## **Overview**

## Parts Included

The parts included in this kit are shown in Table 1. Please make sure all parts and supplies are present before starting the procedure.

Quantity	Description	Part #
1	PLC	92243
4	Concrete Anchors	305022
1	Pairing Programmable Transmitter Service Bulletin	SB255
1	Service bulletin document	SB263

Table 1: Parts in SB263KIT

If you have any questions, call MiTek Automation Support at 1-800-523-3380.



## **Supplies Needed**

- · Cable ties
- Small flathead screwdriver
- Drill for mounting electrical enclosure into concrete flooring

## Procedure

## **Electrical Lockout/Tagout Procedure**



The lockout/tagout procedure must be followed for the *RailRider Pro* Gantry Head, and for the electrical enclosures at both ends of the table.



WARNING
ELECTROCUTION HAZARD.
All electrical work must be performed by a qualified

All electrical work must be performed by a qualified electrician.

Verify that all power to the machine has been turned off and follow approved lockout/tagout safety procedures before performing any maintenance.

If it is absolutely necessary to troubleshoot an energized machine, follow NFPA 70E for proper procedures and personal protective equipment.

## Locking Out Power to the Electrical Enclosures

- Shut off the power to the table's power source, which is usually an electrical service entry panel on the facility wall. One example of a locked-out power source panel is shown in Figure 1.
- 2. Attach a lock and tag that meet OSHA requirements for lockout/tagout to the electrical service entry panel.

### Locking Out Power to the RailRider Pro

- 1. Engage an E-stop on the machine.
- 2. Turn the disconnect switch handle to the Off position.
- 3. Attach a lock and tag that meet OSHA requirements for lockout/tagout to the electrical service entry panel.

Figure 1: Lockout/Tagout on the Power Source Panel





#### Pneumatic System Lockout/Tagout Procedure



1. After lockout tagout of the electrical power, turn off or close the system's air shut-off valve and attach a lock and tag. See Figure 1.

Figure 1: Pneumatic System Shut-Off Valve

2. Drain the pneumatics system of the *RailRider Pro* table entirely.

## **Routing the Air for the Pneumatics**

1. Ensure the building's air line is routed to the regulators on both ends of the *RailRider Pro* table.

Figure 2: Air Hook-up Location



## Setting up the Air Line for Dual Zone

1. Turn both air switches, located near the middle of the *RailRider Pro* table, to Dual Zone.



Figure 3: Air Switch

Note: If you have welded the clamping bars together, cut the welds to separate them.

## Install the Provided PLC into the New Electrical Enclosure





MOVING PARTS CAN CRUSH AND CUT.

Always verify that power to the machine has been turned off and follow approved lockout/tagout procedures.

- 1. With plant power locked out, connect power to the new electrical enclosure from your plant power source. See pages 9 and 10 for the wiring diagrams of wireless remotes, and page 15 for wired remotes.
  - Note: Be mindful of new electrical enclosure location. Ensure gray flexible conduit will reach the *RailRider Pro* filter regulator assembly, and the power cable will reach the desired power source.
- 2. Open the door to the new electrical enclosure by turning both door handles 90° counterclockwise.

Figure 4: Inside the New Electrical Enclosure



- 3. Remove wire harnesses attached to the left PLC by lifting the cover panels and removing the screws circled in Figure 5. Lift the wire harnesses up and away from the left PLC.
- 4. Then, lift the cover panel over the ribbon cable. Pinch the sides and pull to remove the ribbon cable, as illustrated in Figure 5.

Figure 5: Left PLC Wire Connections



5. Remove the left PLC by unscrewing 2 screws, circled in Figure 6. Figure 6: PLC Mounting Screw Locations



- 6. Install the provided PLC in place using the 2 screws from the previous step. Reconnect the wire harnesses and ribbon cable, ensuring no pins are bent.
- 7. Secure the removed PLC in the packaging used for the provided PLC. See the Notice on page 2 for return instructions.

## Install the New Electrical Enclosure

1. Mount the new electrical enclosure at the opposite end of the table as the first electrical enclosure, using the concrete anchors provided. Mounting holes are circled in Figure 7.

Figure 7: Electrical Enclosure Mounting Holes



2. Route the gray flexible conduit to the table, feeding the inner wire through the frame near the pneumatic manifold, shown in Figure 8. Figure 8: Cable Connection Location



3. Route the inner wire along the table frame, following pneumatic tubing, to the valve bank. Secure with cable ties (not provided). Plug the wire in and use a flathead screwdriver to secure the connection, shown in Figure 9. Figure 9: Valve Bank Wire Connection



4. Remove lockout/tagout devices, allow pneumatic lines to fill, then test your *RailRider Pro* machine.

#### END OF SERVICE BULLETIN



PLC & EXPANSION I/O\*







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REV.	DATE	DESCRIPTION	DESIGNER
-	2018-09-27	INITIAL RELEASE	VDC
A	2022-04-15	REMOVED 519632, UPDATED DESCR 90647-102	NAR
В	2022-11-15	REMOVED 518181; CHG QTY 518192,518234,518232	NAR

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