

INSTALLATION GUIDE

24 VDC POWER SUPPLY FOR 24R ROUTER

? LOOKING FOR A VIDEO?

Before you begin, select the image below to watch a walk-through video of this entire installation procedure.



PURPOSE

This document gives instructions on installing the 24 Vdc Power Supply for 24R Router.

PRODUCT INFORMATION

Product: 24 Vdc Power Supply for 24R Router (PN 51138)

REQUIRED TOOLS

This procedure requires the following tools. Collect them before you begin.

- Flat-blade screwdriver, small

REMOVE THE EXISTING POWER SUPPLY

⚠ WARNING! Electrical Shock Hazard: You must power off the machine before making any electrical connections. If you don't, there's a risk of electrocution or shock.

1. Power off the machine and the PathPilot controller.
 - a. Push in the machine's red Emergency Stop button, which removes power to motion control.
 - b. From the PathPilot interface, select **Exit**.
 - c. Turn the Main Disconnect switch to **OFF** on the side of the electrical cabinet.
 - d. Remove the power plug(s) from the wall outlet. If your system is hardwired, isolate the machine by opening its circuit breaker(s).
 - e. Follow correct lockout/tagout procedures.

REMOVE THE EXISTING POWER SUPPLY

2. From the electrical cabinet, remove the three wire trough covers shown in the following image. Set the wire trough covers aside.

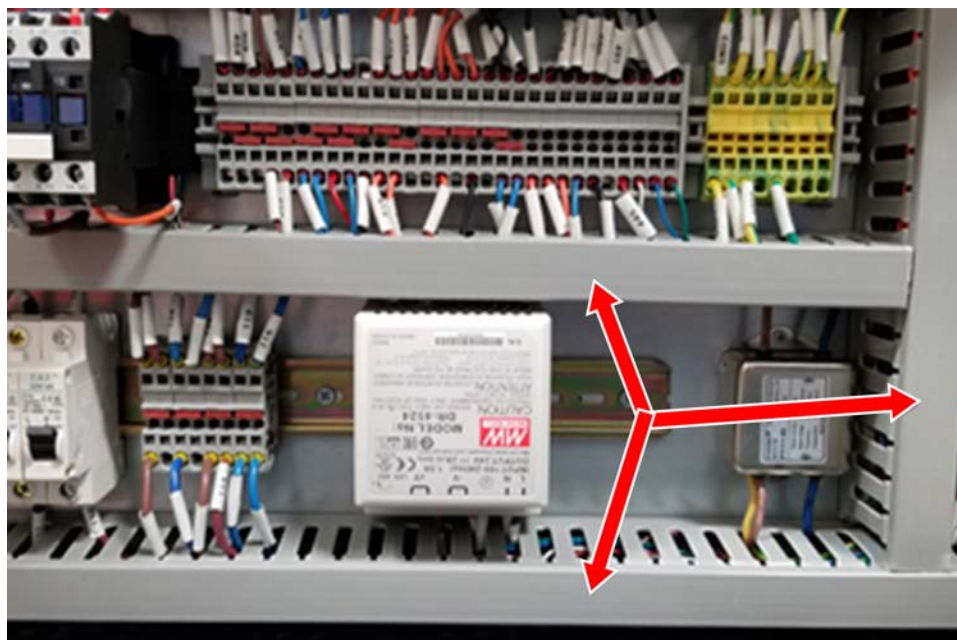


Figure 1: Wire troughs to remove from the electrical cabinet.

REMOVE THE EXISTING POWER SUPPLY

3. Identify the existing power supply. Depending on which machine you have, the power supply is either white or gray (as shown in the following images). Lift the DIN rail clip on the power supply with a small, flat-blade screwdriver to remove it from the electrical cabinet.



Figure 2: Existing power supply attached to the DIN rail.

REMOVE THE EXISTING POWER SUPPLY

4. Remove the wires from the existing power supply terminals with a small, flat blade screwdriver.



Figure 3: Wires to remove from the existing power supply.

5. Depending on which power supply you have, do one of the following:
- **Gray Power Supply** Go to "Install the Replacement Power Supply" (on the next page).
 - **White Power Supply** Go to Step 6.
6. In the electrical cabinet, on the ground terminal strip, identify the **GND 4** wire. Then, remove it with a small, flat-blade screwdriver. You can discard the ground wire.



Figure 4: Ground wire in the electrical cabinet.

INSTALL THE REPLACEMENT POWER SUPPLY

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1. Make the wire connections on the replacement power supply:
 - a. Connect **wire 118 (brown)** to the **L** terminal on the new power supply.
 - b. Connect **wire 115 (blue)** to the **N** terminal on the new power supply.
 - c. Connect **wire 401 (brown)** to one of the **V+** terminals on the new power supply.
 - d. Connect **wire 402 (blue)** to one of the **V-** terminals on the new power supply.



Figure 5: Wire connections made on the replacement power supply.

INSTALL THE REPLACEMENT POWER SUPPLY

2. In the electrical cabinet, hold the power supply's DIN rail clip open, and mount the replacement power supply to the DIN rail.



Figure 6: Replacement power supply mounted on the DIN rail.

3. Tuck the power supply's wires into the wire troughs and re-install the wire trough covers that you set aside earlier.



Figure 7: Wire troughs re-installed.