

INSTALLATION GUIDE

PATHPILOT CONTROLLER (PN 51091)

PURPOSE

This document gives instructions on installing the PathPilot Controller for use with a Tormach machine.

PRODUCT INFORMATION

Product: PathPilot Controller (PN 51091)

Quantity	Description
1	Controller
4	M3 × 0.5 - 2.5 mm Threaded Standoffs, 9 mm Height
4	M4 × 0.7 - 8 Pan Head Phillips Screws
1	NEMA-15 to IEC Power Cable
1	Power Brick
1	VESA Plate



Note: If any items are missing, we can help. Create a support ticket with Tormach Technical Support at tormach.atlassian.net/servicedesk for guidance on how to proceed.

BEFORE YOU BEGIN

If you haven't yet done so, you must first install the following items before you begin:

- **Controller Arm (PN 38791)**
- Monitor

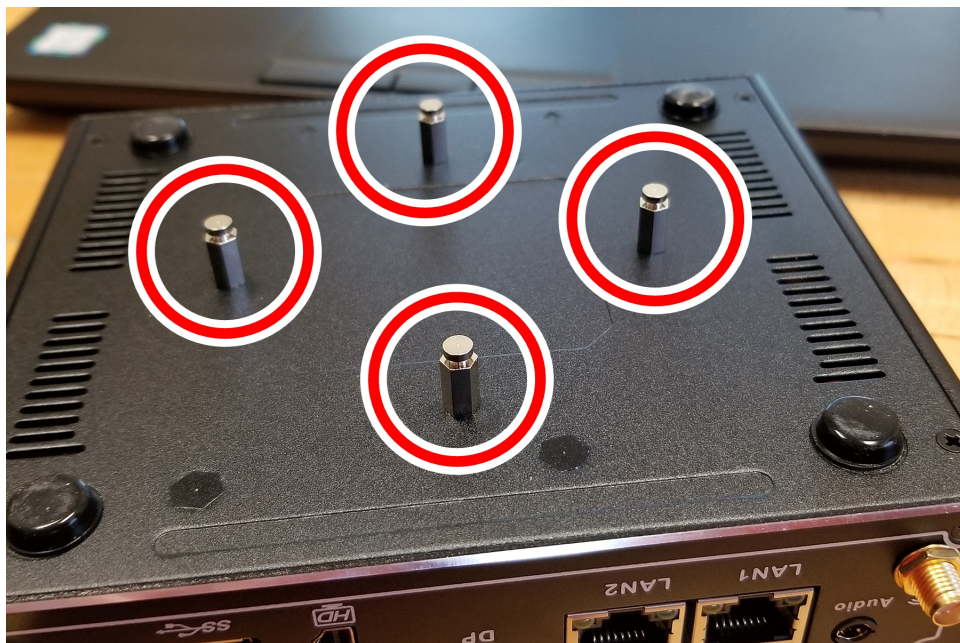
For installation instructions, go to tormach.com/docs.

INSTALLATION

The PathPilot controller attaches to the top of the PathPilot Controller VESA Mount and behind the monitor.

INSTALLATION

1. Put four standoffs into the controller and tighten them by hand.



2. Find the four M4 screws and the VESA plate included with the controller. Then, mount the VESA plate to the PathPilot Controller VESA Mount (PN 50382). Make sure to put it flat side down with the keyholes toward the monitor.



MAKE CONTROLLER CONNECTIONS

3. Attach the controller to its mount by sliding the standoffs through the key slots.



MAKE CONTROLLER CONNECTIONS

Depending on which machine you're using, the controller connections vary.

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1100M/MX, 770M/MX

1. Connect all USB accessories to the controller:
 - Jog Shuttle (PN 30616) (Optional)
 - Keyboard
 - Mouse
 - Monitor
2. Connect the monitor's video cable to the controller.
3. Route the loose end of the video cable toward the monitor, and then connect it to the monitor.
4. Connect the power supply to the controller.
5. Connect the loose end of the power supply to one of the **Controller/Monitor** cables provided.
6. Route the power cables to the electrical cabinet.
7. Connect the power supply for the controller to any of the **Accessory** power outlets on the back of the electrical cabinet.
8. Find the Ethernet cable, and then connect it to the **Controller Communications** outlet on the side of the electrical cabinet.
9. Route the loose end of the Ethernet cable toward the controller and then connect it.

MAKE CONTROLLER CONNECTIONS

10. Secure the wire loom, Ethernet cable, and power supply cables to the Controller Arm with six wire tie mounts and six cable ties.

24R

1. Connect all USB accessories to the controller:
 - Jog Shuttle (PN 30616) (Optional)
 - Keyboard
 - Mouse
 - Monitor
2. Connect the monitor's video cable to the PathPilot controller.
3. Connect the loose end of the video cable to the monitor.

MAKE CONTROLLER CONNECTIONS

4. Connect the monitor's power cord. Depending on the type of monitor you have, do one of the following:

- **Standard LCD Monitor (PN 30615)**

- a. Connect two of the **Controller/Monitor** cables (provided in the machine owner's kit) together. Then, connect one end of the cable assembly into the monitor.
- b. Route the loose end of the cable assembly down the monitor post, through the square tube arm, and toward the electrical cabinet.
- c. Connect the cable assembly into one of the Accessory Power Ports on the front right end of the electrical cabinet.



Figure 1: Connecting the monitor cable to the Accessory Power Port.

MAKE CONTROLLER CONNECTIONS

- **Touch Screen Kit (PN 35575)**

- Connect the monitor's power supply into the monitor.
 - Route the power supply down the monitor post.
 - Connect one end of one **Controller/Monitor** cable (provided in the machine owner's kit) to the loose end of the monitor's power supply.
 - Route the loose end of the **Controller/Monitor** cable through the square tube arm and toward the electrical cabinet.
 - Connect the loose end of the **Controller/Monitor** cable into one of the Accessory Power Ports on the front right end of the electrical cabinet.
 - Attach the power supply to the monitor post with one cable tie (provided in the machine owner's kit).
- Connect the PathPilot controller's power supply to the PathPilot controller.
 - Connect the loose end of the power supply to one of the **Controller/Monitor** cables provided.
 - Route the power cable down the monitor post, through the square tube arm, and toward the electrical cabinet.
 - Connect the loose end of the **Controller/Monitor** cable into one of the Accessory Power Ports on the front right end of the electrical cabinet.
 - Attach the PathPilot controller and monitor power supplies to the square tube arm with cable ties (provided in the machine owner's kit).

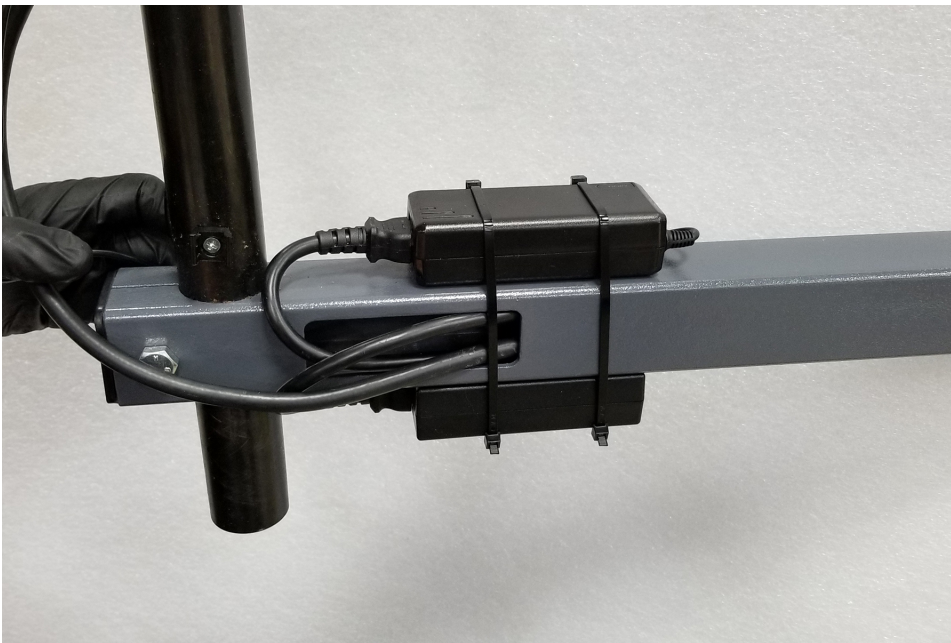


Figure 2: Power supply attached to the square tube arm.

- Find the Ethernet cable (provided in the machine owner's kit), and then connect it to the Controller Communications outlet on the front right end of the electrical cabinet.

MAKE CONTROLLER CONNECTIONS

11. Route the loose end of the Ethernet cable toward the PathPilot controller, and then connect it to the PathPilot controller.
12. Secure the operator box cable, Ethernet cable, and power supply cables to the Controller Arm with four wire tie mounts and four cable ties.

8L

1. Connect all USB accessories to the controller:
 - Jog Shuttle (PN 30616) (Optional)
 - Keyboard
 - Mouse
 - Monitor
2. Connect the monitor's video cable to the PathPilot controller.
3. Connect the loose end of the video cable to the monitor.

MAKE CONTROLLER CONNECTIONS

4. Connect the monitor's power cord. Depending on the type of monitor you have, do one of the following:

- **Standard LCD Monitor (PN 30615)**

- a. Connect two of the **Controller/Monitor** cables (provided in the machine owner's kit) together. Then, connect one end of the cable assembly into the monitor.
- b. Route the loose end of the cable assembly down the monitor post, through the square tube arm, and toward the electrical cabinet.
- c. Connect the cable assembly into one of the Accessory Power Ports on the front right end of the electrical cabinet.



Figure 3: Connecting the monitor cable to the Accessory Power Port.

MAKE CONTROLLER CONNECTIONS

- **Touch Screen Kit (PN 35575)**

- Connect the monitor's power supply into the monitor.
 - Route the power supply down the monitor post.
 - Connect one end of one **Controller/Monitor** cable (provided in the machine owner's kit) to the loose end of the monitor's power supply.
 - Route the loose end of the **Controller/Monitor** cable through the square tube arm and toward the electrical cabinet.
 - Connect the loose end of the **Controller/Monitor** cable into one of the Accessory Power Ports on the front right end of the electrical cabinet.
 - Attach the power supply to the monitor post with one cable tie (provided in the machine owner's kit).
- Connect the PathPilot controller's power supply to the PathPilot controller.
 - Connect the loose end of the power supply to one of the **Controller/Monitor** cables provided.
 - Route the power cable down the monitor post, through the square tube arm, and toward the electrical cabinet.
 - Connect the loose end of the **Controller/Monitor** cable into one of the Accessory Power Ports on the front right end of the electrical cabinet.
 - Attach the PathPilot controller and monitor power supplies to the square tube arm with cable ties (provided in the machine owner's kit).

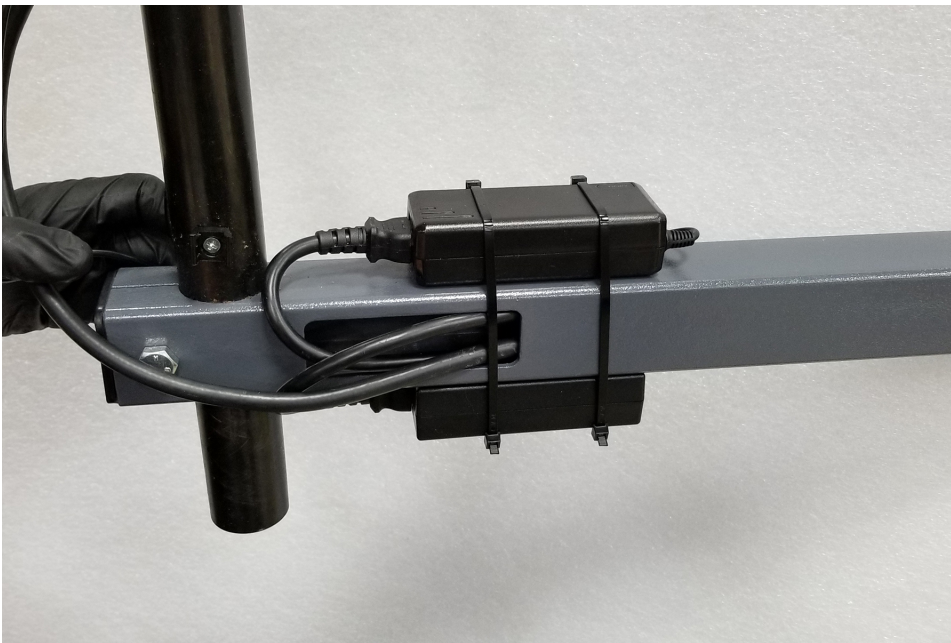


Figure 4: Power supply attached to the square tube arm.

- Find the Ethernet cable (provided in the machine owner's kit), and then connect it to the Controller Communications outlet on the front right end of the electrical cabinet.

MAKE CONTROLLER CONNECTIONS

11. Route the loose end of the Ethernet cable toward the PathPilot controller, and then connect it to the PathPilot controller.
12. Secure the operator box cable, Ethernet cable, and power supply cables to the Controller Arm with four wire tie mounts and four cable ties.