INSTALLATION GUIDE

POWER DRAWBAR FOOT PEDAL KIT



PURPOSE

This document gives instructions on installing the Power Drawbar Foot Pedal Kit on a mill.

PRODUCT INFORMATION

Product: Power Drawbar Foot Pedal Kit (PN 31728)

Quantity	Description
1	Foot Pedal
1	RJ11 Cable
	Note: This item is only used for PCNC mills. If you have an M or MX mill, you can discard this item.



Note: If any items are missing, we can help. Email support@tormach.com to contact Tormach Technical Support for guidance on how to proceed.

BEFORE YOU BEGIN

• M and MX Mills Require ATC If you're installing the Power Drawbar Foot Pedal Kit on an M or MX mill, you must have an Automatic Tool Changer (ATC). If you haven't yet done so, install the ATC now.

INSTALL THE POWER DRAWBAR FOOT PEDAL KIT

The installation procedure varies based on your machine model.

M or MX Mills	3
PCNC 1100 or PCNC 770 Mills	. 4
PCNC 440 Mills	

M or MX Mills



Note: This section also applies to M-style Automatic Tool Changers that you've installed on a PCNC mill. Part numbers for those ATCs include PN 39008 and PN 39009.

- 1. Put the foot pedal in the desired location (near the front of the machine).
- 2. Route the foot pedal cable around the back of the machine and toward the Automatic Tool Changer (ATC).

NOTICE! Don't route the foot pedal cable underneath the machine. If you do, it could interfere with the casters on the coolant tank, which may cause damage to the foot pedal cable.

3. Find the gray foot pedal cable that's preinstalled on the ATC.

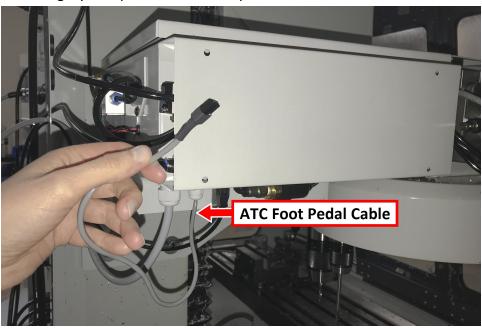


Figure 1: Foot pedal cable preinstalled on the ATC.

- 4. Connect the two-pin Molex connector from the foot pedal's cable to the mating connector on the ATC's cable.
- 5. Use cable ties to organize the cables.

PCNC 1100 or PCNC 770 Mills

To use the Power Drawbar Foot Pedal Kit on a PCNC mill, you must first remove the pre-installed cable on the foot pedal and replace it with the RJ-11 (phone) cable provided with this kit.

Complete the following steps in the order listed:

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Make Electrical Connections

- 1. Remove the cover from the foot pedal. Then, set aside the screws and the cover.
- 2. Remove the spade connectors from inside the foot pedal. Then, loosen the cord grip and nut, and remove the entire cable from the foot pedal. You can discard this cable.
- 3. Find the RJ-11 cable (provided).
- 4. Put the end of the RJ-11 cable with exposed wires into the foot pedal.
- 5. Connect the brown wire from the cable to **NO**, and connect the white/brown wire from the cable to **Common** (as shown in the image).

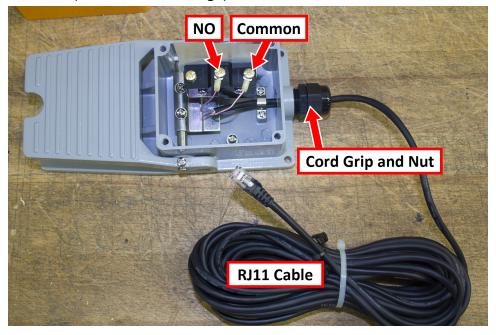


Figure 2: RJ11 cable installed on the foot pedal.



Note: Wire color and polarity don't matter.

6. Replace the cover on the foot pedal.

Install the Power Drawbar Foot Pedal

- 1. Put the foot pedal in the desired location (near the front of the machine).
- 2. Route the foot pedal cable around the back of the machine and up through the energy chain.

NOTICE! Don't route the foot pedal cable underneath the machine. If you do, it could interfere with the casters on the coolant tank, which may cause damage to the foot pedal cable.

3. Remove the four screws on the corners of power drawbar's main control box that secure it to the Z-axis motor mount. Then, set aside the screws.



Figure 3: Power drawbar's main control box.

4. Connect the RJ-11 connector from the foot pedal's cable to the DB2 port on the power drawbar control board.

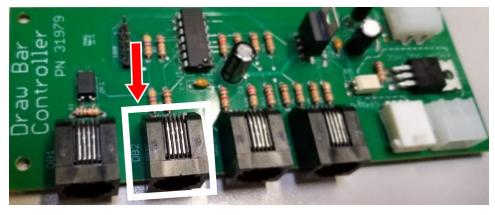


Figure 4: DB2 port on the ATC control board.

- 5. Replace the power drawbar's main control box on the Z-axis motor mount.
- 6. Use cable ties to organize the cables.

PCNC 440 Mills

To use the Power Drawbar Foot Pedal Kit on a PCNC mill, you must first remove the pre-installed cable on the foot pedal and replace it with the RJ-11 (phone) cable provided with this kit.

Complete the following steps in the order listed:

Make Electrical Connections	7
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Make Electrical Connections

- 1. Remove the cover from the foot pedal. Then, set aside the screws and the cover.
- 2. Remove the spade connectors from inside the foot pedal. Then, loosen the cord grip and nut, and remove the entire cable from the foot pedal. You can discard this cable.
- 3. Find the RJ-11 cable (provided).
- 4. Put the end of the RJ-11 cable with exposed wires into the foot pedal.
- 5. Connect the brown wire from the cable to **NO**, and connect the white/brown wire from the cable to **Common** (as shown in the image).

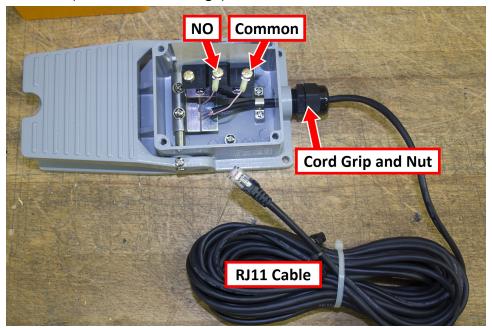


Figure 5: RJ11 cable installed on the foot pedal.



Note: Wire color and polarity don't matter.

6. Replace the cover on the foot pedal.

Install the Power Drawbar Foot Pedal

- 1. Put the foot pedal in the desired location (near the front of the machine).
- 2. Route the foot pedal cable around the back of the machine and toward the Automatic Tool Changer (ATC).
- 3. Remove the four screws securing the access plate to the rear of the ATC. Then, set aside the screws and the plate.
- 4. Cut the RJ-11 connector off of the foot pedal cable and strip the brown and white wires.
- 5. Insert the brown and white wires into the ATC control board's PEDL terminals as shown in the following image (see note below).

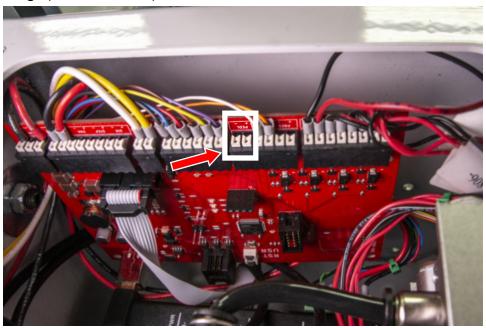


Figure 6: PEDL terminals on the ATC control board.



Note: Polarity doesn't matter, and there's no specific wire order required for this connection.

- 6. Replace the access plate on the rear of the ATC.
- 7. Use cable ties to organize the cables.