

Using the 1100M- High Speed Spindle Programming Kit

TECHNICAL DOCUMENT

1.1 PURPOSE

IMPORTANT! Save These Instructions: Before you change your method of operation (using a High Speed Spindle or the 1100M® spindle), you must make sure that the SD card is inserted into the VFD. Complete the steps in "Program the VFD" (page 4).

This document gives instructions on programming the variable frequency drive (VFD) on an 1100M® mill for use with a High Speed Spindle.

1.2 PRODUCT INFORMATION

Product: 1100M-High Speed Spindle Programming Kit (PN 39028)

Qty	Description
1	<u>SD Card Programming Adapter (PN 38795)</u>
1	<u>Tormach High Speed Spindle SD Card (PN 38940)</u>
1	<u>Tormach 1100M® SD Card (PN 38938)</u>

NOTE: If any of these items are missing, we can help.



Email support@tormach.com to contact Tormach Technical Support for guidance on how to proceed.

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2.1 INSTALL THE SD CARD PROGRAMMING ADAPTER

1. Power off the machine and the PathPilot® controller.
 - a. Push in the Emergency Stop button on the operator box, which disables movement of the axes and the spindle.
 - b. From the PathPilot® interface, select **Exit**.
 - c. Turn the Main Disconnect switch to **OFF** on the side of the electrical cabinet.
2. Identify the two plastic fingers on the bottom of the SD Card Programming Adapter, and then insert them into the spring-loaded port cover on top of the VFD.
3. Push the SD Card Programming Adapter toward the back of the VFD, and then push it down until you hear a click.



Figure 2-1: SD Card Programming Adapter installed on the VFD.

4. You must make sure that the VFD is correctly programmed for operation. Go to "Program the VFD" (page 4).

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3.1 PROGRAM THE VFD

IMPORTANT! Save These Instructions: Before you change your method of operation (using a High Speed Spindle or the 1100M® spindle), you must make sure that the SD card is inserted into the VFD. Complete the steps in the following procedure to program the VFD for operation.

To program the VFD:

1. If you haven't yet done so, you must make sure that the machine is powered off.
Power off the machine and the PathPilot® controller.
 - a. Push in the Emergency Stop button on the operator box, which disables movement of the axes and the spindle.
 - b. From the PathPilot® interface, select **Exit**.
 - c. Turn the Main Disconnect switch to **OFF** on the side of the electrical cabinet.
2. Locate the two SD cards provided in the 1100M-High Speed Spindle Programming Kit. Then, do one of the following:
 - **To Program the VFD for Use with a High Speed Spindle** Insert the Tormach High Speed Spindle SD Card into the VFD.
 - **To Program the VFD for Use with an 1100M® Spindle** Insert the Tormach 1100M® SD Card SD card into the VFD.

The SD card is properly inserted when you hear a click.



Figure 3-1: Tormach High Speed Spindle SD Card inserted into the VFD.

3. Power on the machine and the PathPilot® controller.
 - a. Turn the Main Disconnect switch to **ON** on the right side of the electrical cabinet.
 - b. Twist out the Emergency Stop button on the operator box, which enables movement to the machine axes and the spindle.
 - c. Press the Reset button on the operator box.
4. Leave the SD card inserted into the VFD during operations. You've completed the procedure to program the VFD. When you're ready to change your method of operation, repeat Steps 1 through 4.