

# INSTALLATION GUIDE

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## STEPPER DRIVER (PN 53488)

## PURPOSE

This document gives instructions on installing a replacement stepper driver.

## PRODUCT INFORMATION

Product: Stepper Driver (PN 53488)



**NOTICE!** Depending on the application, DIP switch settings are different from the factory-installed drive. Do not power on the drive before verifying the DIP switch settings and wire connections. Failure to do so could result in damage to the replacement drive.

This document is only applicable to replace the axis stepper drivers in the following machines:

- 1100M mill
- 770M mill
- 24R router
- 8L lathe
- 15L Slant-PRO lathe
- PCNC 1100 (Series 3) mill
- PCNC 770 (Series 3) mill
- PSG 612 grinder

INSTALLATION

**⚠ 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.
- 2. In the electrical cabinet, identify and remove the axis drive in need of replacement.
- 3. Remove the connector plug and ribbon cable from the old axis drive.

**NOTICE!** Depending on the application, DIP switch settings are different from the factory-installed drive. Do not power on the drive before verifying the DIP switch settings and wire connections. Failure to do so could result in damage to the replacement drive.

- 4. Match the settings on the driver's DIP switch as detailed in "DIP Switch Settings" (below).
- 5. Match the drive pin function printed on the front of the replacement drive to the corresponding wire number.



**Note:** The NC port isn't used on the replacement driver, so you'll only use 5 of the 6 pins on the connector plug. Compare the wire locations on the side of your existing driver to the replacement driver.

DIP Switch Settings

| Machine    | DIP Switch Settings                                                                                                                                                                                                                                                                                                                                       |
|------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1100M Mill | <div><div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div></div><div>10<br/>9<br/>8<br/>7<br/>6<br/>5<br/>4<br/>3<br/>2<br/>1</div><div>off<br/>off<br/>off<br/>on<br/>off<br/>on<br/>on<br/>on<br/>on<br/>on</div><div>←<br/>←<br/>←<br/>→<br/>←<br/>→<br/>→<br/>→<br/>→<br/>→</div></div> |

| Machine                      | DIP Switch Settings                                                                                                                                                                                                                                                                               |
|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 770M Mill                    | <div><div><div>10</div><div>9</div><div>8</div><div>7</div><div>6</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div></div><div><div>off</div><div>off</div><div>on</div><div>on</div><div>off</div><div>on</div><div>on</div><div>on</div><div>off</div><div>on</div></div></div>  |
| 24R Router                   | <div><div><div>10</div><div>9</div><div>8</div><div>7</div><div>6</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div></div><div><div>off</div><div>off</div><div>on</div><div>on</div><div>off</div><div>on</div><div>on</div><div>on</div><div>off</div><div>on</div></div></div>  |
| 8L Lathe                     | <div><div><div>10</div><div>9</div><div>8</div><div>7</div><div>6</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div></div><div><div>off</div><div>off</div><div>on</div><div>on</div><div>off</div><div>on</div><div>on</div><div>on</div><div>off</div><div>on</div></div></div>  |
| 15L Slant-PRO Lathe (X-Axis) | <div><div><div>10</div><div>9</div><div>8</div><div>7</div><div>6</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div></div><div><div>off</div><div>off</div><div>off</div><div>on</div><div>off</div><div>on</div><div>on</div><div>on</div><div>on</div><div>off</div></div></div> |
| 15L Slant-PRO Lathe (Z-Axis) | <div><div><div>10</div><div>9</div><div>8</div><div>7</div><div>6</div><div>5</div><div>4</div><div>3</div><div>2</div><div>1</div></div><div><div>off</div><div>off</div><div>off</div><div>on</div><div>off</div><div>on</div><div>off</div><div>on</div><div>on</div><div>on</div></div></div> |

| Machine                   | DIP Switch Settings                                                                            |
|---------------------------|------------------------------------------------------------------------------------------------|
| PCNC 1100 (Series 3) Mill | <div><div><div><div></div></div>10</div><div><div></div></div>9</div> <div><div></div></div> 8 |

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