

FREEING UP AN INPUT ON THE GECKO FOR HOME/LIMIT SWITCHES

On the Shopmaster machines with sensors on lathe and mill spindles, each sensor goes to a pin on the Gecko drive. This leaves only 2 free input pins available. For those wanting to install 3 separate circuits for limit switches it is a problem. You can free up one of the pins used by the spindle sensors by “ganging” another switch onto the back of the LATHE- MILL selector switch. If you look at your switch, you will see that there is a black plastic cap snapped into place where the wires attach. By simply lifting up on the tab, this cover can be removed and another complete switch assembly can be snapped onto the back of the original switch. In this way, you can route both sensor wires to this new switch section and when you switch from lathe to mill, the proper wire will go to a single pin on the Gecko drive, thus freeing up 1 more pin for your limit switch wiring. The switches are available for 9.95 from Shopmaster.

Unplug the machine from the power source and open the end panel.

- 1. Remove the black plastic cover piece from the LATHE_MILL selector switch.**
 - 2. Snap the new switch unit onto the LATHE-MILL selector switch being sure that the green button corresponds with the MILL ON position of the LATHE-MILL switch.**
 - 3. Attach the green mill sensor wire you removed from the Gecko to the top green terminal**
 - 4. Attach the blue lathe sensor wire you removed from the Gecko to the top red terminal.**
 - 5. Place a proper gauge wire across the 2 bottom terminals.**
 - 6. From either bottom terminal route a proper gauge wire to pin 1 on the Gecko drive.**
 - 7. Go to MACH LOADER and open Machmill. Go to CONFIG > PORTS & PINS > INPUT SIGNALS scroll down to INDEX and set PORT to 1 and PIN to 10.**
- Now, when you switch the LATHE-MILL selector switch, it will also switch the input from your sensors to a single pin on the Gecko and you will now have pins 2,3 and 4 available for X,Y and Z axis limit switch inputs.**

NOTE: This is a standard feature beginning in 2017

Switch as seen from inside the cabinet

MILL ON POSITION

LATHE ON POSITION

GREEN WIRE FROM
MILL SENSOR

BLUE WIRE FROM
LATHE SENSOR

GREEN
NORMALLY
OPEN

RED
NORMALLY
CLOSED

Jumper wire

Wire to pin 1 on Gecko drive

