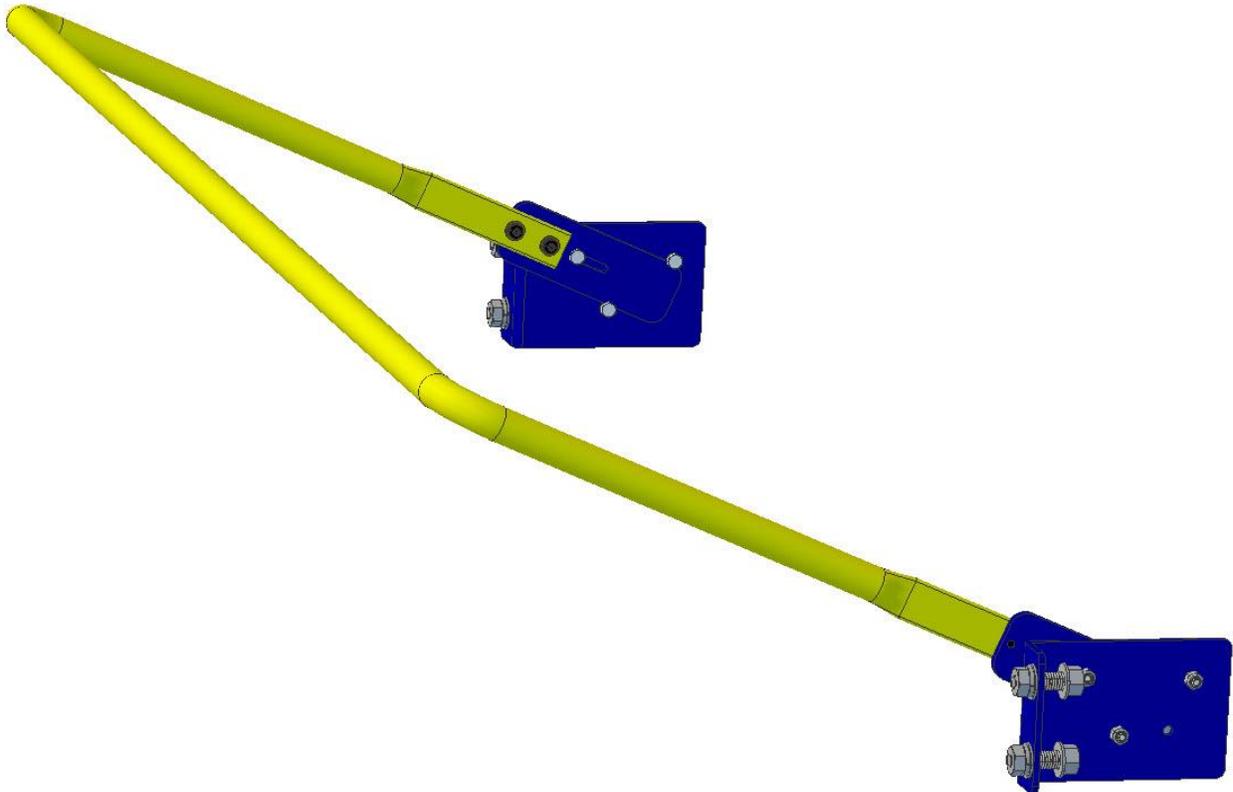


# Safety Bar Installation and Operation



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## Revision History

Date:	ECO:	Change:	Changed By:
2015 11 11	403	New Release	M. Cummings

## Table of Contents

Introduction .....	4
Installing the safety bars .....	4
Using the safety bars.....	6
Operation of the Safety Bars .....	7

## Introduction

In the up and locked position, the safety bars create a physical barrier 24" from cutter. If a bar is disengaged or dropped to the down position while the machine is moving, a safety switch is tripped and stops the movement and power to the spindle. Machine motion will not be available until the safety bars are placed back into the up and locked position.

Note that machine motion IS possible with the bars in down position, but the spindle will not be engaged.

These bars can be added as additional safety on PRS models and PRT models with the extruded table sides.

## Installing the safety bars

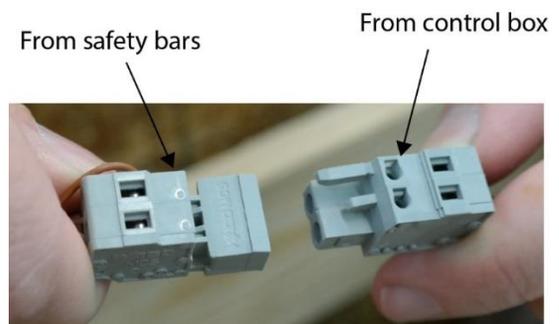
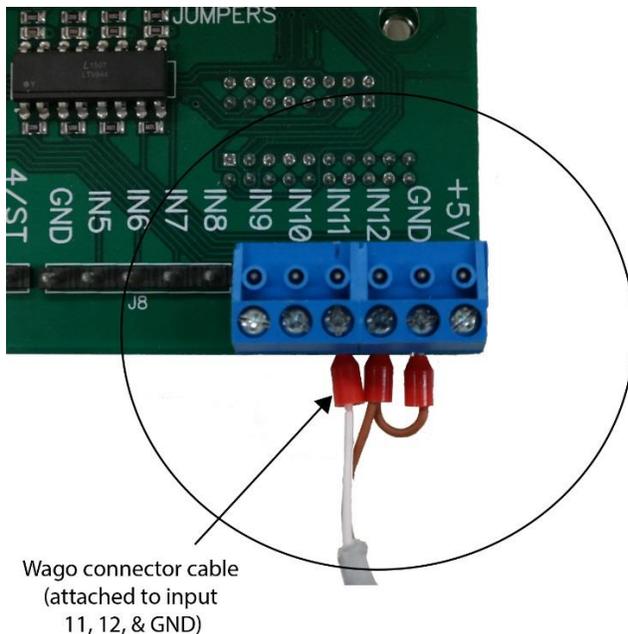
To make wiring easier, set the bar assemblies on the ground at the front and back side of the Shopbot. Each side of the bar assembly includes a mounting plate with two holes. Screw switch into mounting hole closest to control box from the back side until the switch is flush with the front of the plate. Tighten both nuts against the backside of the plate to lock the switch into place.



Ensure switch cable is running *under* the table between the two bars, not on the outside or over the top, and mount the two assemblies onto machine using **(8) 1/2" x 1-1/2" hex bolts, (8) 1/2" lock washers, (16) 1/2" flat washers, and (8) 1/2" hex nuts**. Orient the assembled bar so the bar can hang down vertically when unlocked. Use the enclosed bolts, washers, and nuts to mount them to the legs as shown below.

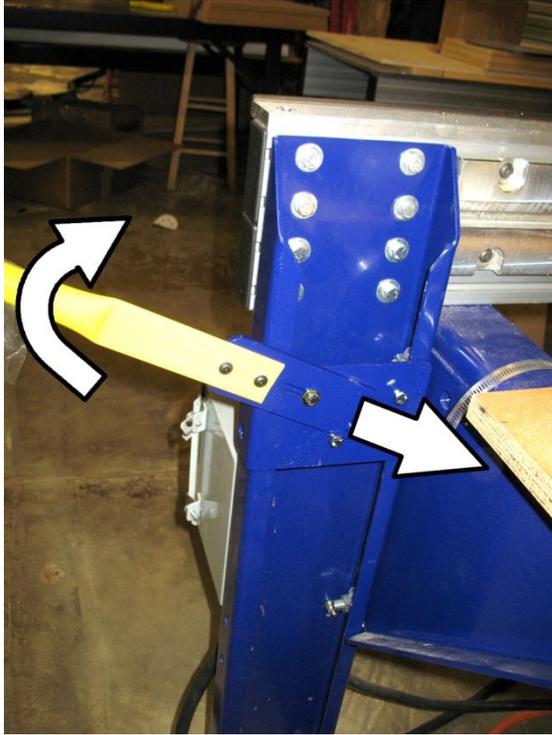


Open control box and find the short piece of gray cable with a 2-pin Wago connector. Run this cable through the cable management fixture on the side of the box and plug it into the switch cable.

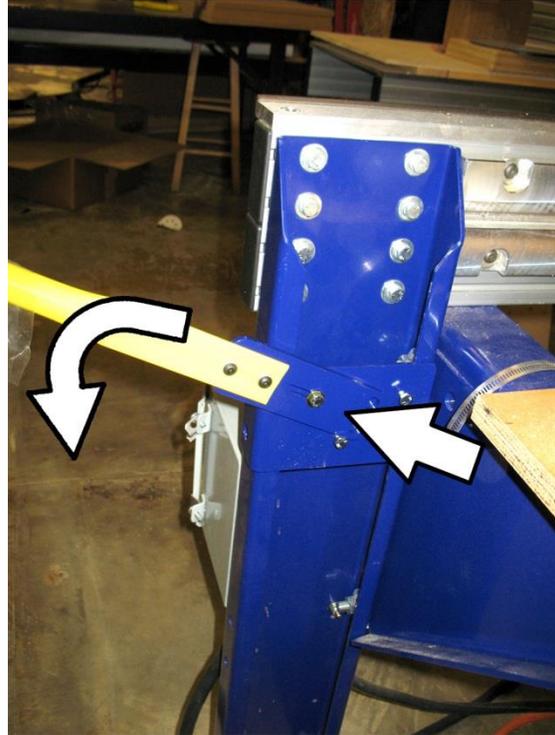


There will be some slack in the switch cable. Attach this to the underside of the table so that it doesn't get caught on anything. Secure the cable with zip ties or similar (a package of zip ties is included in the crate for this and other wiring).

## Using the safety bars



To lock bar into place: pull up from the vertical position and then slide the bar in towards the table. This locks it into place and activates the switch, allowing full operation of the machine.



To unlock, pull the bar back towards you and lower them down. In this position, you will still be able to move each axis but the spindle will be deactivated.

## Operation of the Safety Bars

Placing the safety bar(s) in the down / disengaged position will activate “Door” alert on keypad. The machine will be in a locked out state – the machine will stop if in the middle of a cut file. Although power will still be active to move the machine, it will not be able to run a cut file or turn on spindle.

