TESTING THE SAFETY SLIDE

HTT02980508

IMPORTANT:

YOU MUST PERFORM THIS TEST BEFORE OPERATING YOUR ROUTER TO PREVENT PERMANENT DAMAGE. REPEAT FOR EACH NEW TOOL CHANGER/HOLDER!

1) After wiring power to the machine and computer, and after connecting the computer to the router, open the CNC Interface.

2) Once the machine is able to jog, raise the SPINDLE off of the TABLE.

3) Click Setup, then Diagnostics.

4) Click the checkmark next to "Chuck" in the outputs section. Click "OK" on the subsequent warning.

5) Insert an *empty* (be sure to completely remove the nut)TOOL HOLDER into the chuck of the SPINDLE and hold it in place.

6) Un-click the checkmark next to "Chuck" in the outputs section. Click "OK" on the subsequent warning. This should close the chuck and the TOOL HOLDER should spin freely.

7) Click on "Safety Slide" in the outputs section. Click "OK" on the subsequent warning. This should extend the SAFETY SLIDE.

8) When the SAFETY SLIDE is extended, in the Inputs section the "No Tool" should be gray. (When it is retracted it should be red)

9) While the SAFETY SLIDE is extended Spin the TOOL HOLDER by hand, checking for rubbing or friction between the SAFETY SLIDE and the TOOL HOLDER. The TOOL HOLDER should spin as freely with the SAFETY SLIDE extended as it does when the SAFETY SLIDE is retracted. If it does not, refer to "ADJUSTING THE SAFETY SLIDE". Repeat Steps 1-8 in order re-check the CNC Interface.

Figure 1

*TO EXTEND AND RETRACT THE SAFETY SLIDE CLICK HERE

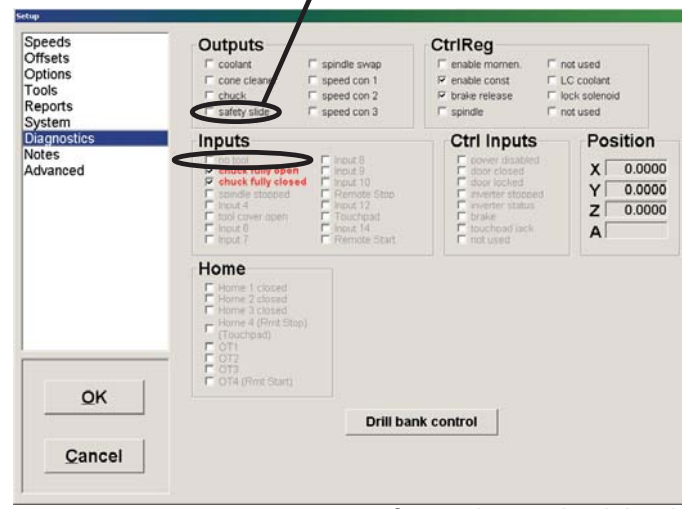


Figure 2- DIAGNOSTICS

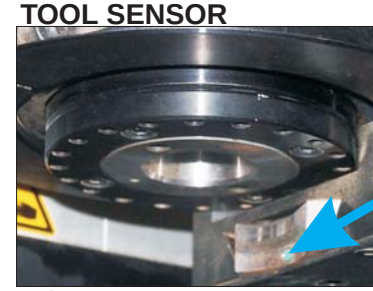
IMPORTANT PIECES OF THE SAFETY SLIDE

THE SAFETY SLIDE

The SAFETY SLIDE in Figure 1(ARROW) is on the machine to protect the user of the machine. In this Figure you should be able to see that the SAFETY SLIDE is retracted.

In the center of the SAFETY SLIDE there is a GREEN DOT. This is the TOOL SENSOR. There is a tongued edge of the SAFETY SLIDE, this is the edge that will fit into the groove of SPINDLE when the SAFETY SLIDE is properly aligned. Figure 1a is a retracted SAFETY SLIDE and Figure 1b is an extended slide.

TOOL SENSOR



ARROW TO GREEN DOT, THE TOOL SENSOR

FIGURE 1

FIGURE 1a

RETRACETED

FIGURE 1b

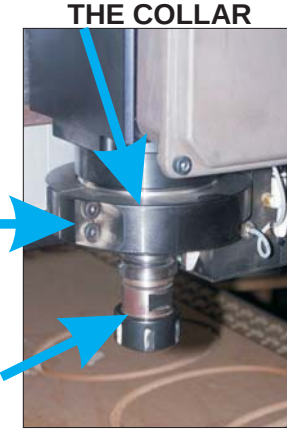
EXTENDED

THE COLLAR

The COLLAR secures the SAFETY SLIDE to the TOOL HOLDER. It can be tightened and adjusted by the 2 screws that are located on its left side. (See Figure 2) This allows for Vertical Adjustment.

THE COLLAR

2 SIDE BOLTS FOR VERTICAL ADJUSTMENT



TOOL HOLDER

Figure 2

THE SAFETY SLIDE SIDE MECHANISM

You will receive one of two options for the SAFETY SLIDE SIDE MECHANISM:

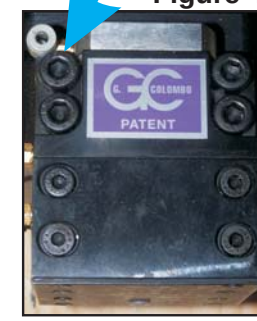
* 2 BOLTS on its upper half (Figure 3)
* 4 BOLTS on its upper half (Figure 4)

The angle of the SAFETY SLIDE can be adjusted by loosening these 2/4 BOLTS and shifting the SAFETY SLIDE SIDE MECHANISM.

Figure 3

TWO OPTIONS
2 BOLTS
OR
4 BOLTS

Figure 4



SAFETY SLIDE SIDE MECHANISM

ADJUSTING THE SAFETY SLIDE

If you have a misaligned SAFETY SLIDE, carefully follow these directions:

To verify the SAFETY SLIDE SIDE MECHANISM is properly adjusted when it is extended, (Figure 1) rotate the SPINDLE, with the TOOL HOLDER in it by hand.

Figure 1

If there is any friction, retract the SAFETY SLIDE and loosen the two BOLTS on the front of the COLLAR.(Figure 2 and 3)

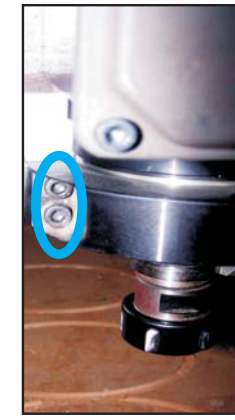


Figure 2

Next, shift the COLLAR vertically to align the groove of the TOOL HOLDER with the tongue edge of the SAFETY SLIDE.

***NOTE* If you align the groove and tongue edges while the SAFETY SLIDE is retracted you may get a better idea of how much you need to shift the COLLAR.**

Figure 3

WARNING: The TOOL HOLDER should spin just as freely with the SAFETY SLIDE extended as it does when it is retracted. Any rubbing will result in a dangerous situation and almost immediate failure.

If adjusting the COLLAR fails to align the SAFETY SLIDE, it may be necessary to make an angular adjustment. You can loosen and tighten the 2/4 BOLTS on the side of the SAFETY SLIDE. (See Figure 4) After the angular adjustment it may be necessary to adjust the COLLAR once more.

When the SAFETY SLIDE is aligned properly, rotate the TOOL HOLDER while tightening the front BOLTS. This will prevent the SAFETY SLIDE from shifting. Always test the SAFETY SLIDE after the final tightening, both front and side BOLTS should be tightened to approximately 15-foot-lbs of torque. (To extend and retract the SAFETY SLIDE, refer to "TESTING THE SAFETY SLIDE".)

Figure 4