Thank you for purchasing the Spindle Brake from Travers Tool Co., Inc. I developed this tool because I found it awkward and cumbersome to make tool changes using the spindle spanner and hex wrench supplied with my mill/drill. So I searched the Internet for a better tool, but did not find a satisfactory solution.

I decided to design and build a tool that made tool changes easier and more convenient. The Spindle Brake is made from alloy 303 stainless steel and is machined to exact specifications in state-of-the-art CNC machining centers. The Safety Switch ensures that the mill cannot be turned-on while the Spindle Brake is in place. The Spindle Brake is a very high quality tool that works well and is a great addition to your collection of mill accessories.

I hope you enjoy using the Spindle Brake made by Priest Tools for many years to come.

Greg Priest Priest Tools, Inc.

#### What's Included



### <u>Hardware</u>

- 1. Spindle Brake disc
- 2. Spindle Brake plate
- 3. Safety switch
- 4. 5 x 70mm socket cap screws (2)
- 5. 8-32 x 3/8" socket cap screw
- 6. 1/4"OD x 3/16" L x #8 spacer
- 7. #4-40 x 1/4" machine screws (2)
- 8. Rubber grommet
- 9. Drawbar
- 10. Instructions

#### Tools required for installation

- 1. #1 Phillips screw driver
- 2. 9/64" & 4mm hex wrenches

<ol> <li>Remove power to the mill.</li> <li>Remove tooling from the Spindle.</li> </ol>	5. Remove the lower left screw from the display housing.	
3. Unscrew and remove the Spindle Cover.	<ol> <li>Enlarge this hole to 9/32. Be sure to firmly control the drill so that it does not "hog-in" and deform the hole.</li> </ol>	
<ol> <li>Remove the Spindle Cover Base by unscrewing 3 M47 X 10MM cap screws and lifting the cover over the spindle.</li> </ol>	<ol> <li>Clean and debur the hole.</li> <li>Insert the supplied rubber grommet.</li> </ol>	

# Spindle Brake for SX3 Installation Guide



### Spindle Brake for SX3 Installation Guide



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27. Store the Spindle Brake Disc in the slot on the Spindle Brake Plate. This way, you will always know where it is and it serves as a visual queue as to whether or not the Brake is installed.		30. <u>Adjustment of Tightness of Fit of</u> <u>Spindle Brake Disc to Spindle.</u> The self-locking 5/16-18 socket set screw can be turned using a 5/32" hex wrench to tighten or loosen the fit of the Disc as it slides along the	
Congratulations, the installation of your new Spindle Brake is complete!		mill spindle. This screw has been pre-set at the factory, but you may wish to fine tune the Disc's fit with the spindle of your mill.	
28. Adjusting the Spindle Brake. There are two basic adjustments that allow the Spindle Brake to operate smoothly. 1) The alignment of the slotted holes in the Spindle Brake Disc to the lock screw in the Plate, and 2) the tightness of fit of the Spindle Brake Disc as it slides over the top of the spindle.			
29. <u>Alignment of Spindle Brake Plate</u> <u>and Disc.</u> The Plate can be adjusted by loosening the two 5x70MM socket cap screws holding the plate to the top of the mill. Slide the Disc over the top of the spindle and rotate it into place flush with the surface of the Plate. If the lock screw is not in the center of the slotted hole in the Disc, then adjust the Plate and re-tighten the mounting screws for the Plate.	Contraction Contra		