

INSTRUCTIONS FOR REMOVING AND REPLACING THE SHAFT ON A SNOWIZARD® CUTTER

A 5/32" allen wrench is needed to remove or attach a shaft to the cutter on a SnoWizard® machine. **NO OTHER TOOLS ARE NEEDED OR SHOULD BE USED.** Use of pliers, vise grip pliers or other tools on the shaft may scratch, gouge or damage the shaft and ruin the machined surface.

Two people are needed to perform the change properly.

Place the cutter on a flat, non-slip surface, preferably on a towel, rug or piece of carpet. This will protect the blades if they have not been removed from the cutter. It will also provide friction in preventing the cutter from moving while changing the shaft.

Place the large, 8" pulley on the end of the shaft and turn to align the key holes. Insert the square key and tighten the set screw on the pulley to lock the pulley onto the shaft. **See Figure 1.**



Figure 1.



Figure 2.

Next, have one person grasp the cutter firmly by the fins while pressing downward. The second person then needs to grasp the pulley using both hands. **See Figure 2.**

Turn the pulley **CLOCKWISE** to unscrew it from the cutter. Please note that the shaft has a **LEFT HAND THREAD**, therefore it must be turned clockwise (opposite of the normal way) to unscrew it from the cutter. A significant amount of force will be needed to unlock the shaft from the cutter. Once the shaft begins to turn, loosen the set screw and remove the pulley. The shaft can then be fully unscrewed by hand.

Before attaching a new shaft, wipe the threaded hub surface of the cutter clean. Apply foodservice grease to the threads of the shaft and smear into the threads to lubricate all grooves. By hand, attach the new shaft to the cutter by screwing it **COUNTER-CLOCKWISE** into the cutter. When the threads begin to tighten, attach the large pulley to the shaft, insert the square key, and tighten the set screw to lock the pulley in place.

Place the cutter back on the flat non-slip surface. Have one person grasp the cutter firmly by the fins while pressing downward. The second person then needs to grasp the pulley using both hands. Turn the pulley **COUNTER-CLOCKWISE** and begin screwing it into the cutter. As the threads tighten, alternate turning the pulley clockwise and counter-clockwise while screwing it into the cutter. This back and forth motion will lubricate the threads in the cutter as the shaft is being screwed into it.

When the bronze collar of the shaft meets the flat surface of the cutter, apply additional turning force to the pulley to seat and lock the shaft in place. Loosen the set screw on the pulley and remove it from the shaft. Check the shaft for any mars or surface scratches. If any are present, use a 220 grit sandpaper or finer, and polish the surface to remove.

Wipe the surface of the shaft and bearings clean using a clean rag or paper towel. Lubricate the shaft and bearings by spreading a thin film of foodservice grease on the surfaces. When inserted into the bearings of the cylinder, the cutter/shaft should go in smoothly without needing any force. If the shaft does not insert fully through the bearings, **DO NOT FORCE IT THROUGH.** Carefully remove the cutter/shaft and inspect the shaft and bearings for any mars, scratches, grit or foreign matter. Polish, clean, re-lubricate and try again.

Assemble the cutter, cylinder, pulley and set screw as shown in **Figure 3.** Place the entire cutter head assembly on a flat surface. Fold a rag or small towel and carefully place it under the blades. This will keep the cutter pressed up fully into the cylinder. Press down against the pulley with moderate force while tightening the set screw with the other hand.



Figure 3.

