

Amerisun PowerSmart Snow Thrower Inspection Instructions



IMPORTANT SNOW THROWER SAFETY NOTICE

Read **ALL** instructions included in this brochure. Failure to follow these instructions can result in injury or property damage.

Your Snow Thrower is a machine designed for years of service, but regular use of machinery may cause components, such as fasteners, to loosen. Your Snow Thrower is equipped with a drive system that may become unexpectedly engaged if an *auger pulley bolt* inside the snow thrower becomes loose.

These instructions depict how to inspect your Snow Thrower to check for a loose auger pulley bolt and identify whether corrective action is required.

IMPORTANT: If your Snow Thrower drives forward or backward unexpectedly, remove the *engine stop safety key* shown in Figure 1 to stop the machine. The *engine safety stop key* can always be removed to stop your snow thrower, even if the drive plate is engaged.



Figure 1. Engine stop safety key; remove in case of unexpected snow thrower motion.

Inspection Steps for Two Stage Gas Snow Thrower

Required Tools: To perform this inspection, you will need (1) a large Phillips screwdriver and (2) a long tool with a narrow end (e.g., an 8-inch-long screwdriver or 8-inch-long wrench).

⚠ WARNING

Before inspecting your Snow Thrower, remove the engine stop safety key and make sure all components are cool. DO NOT re-insert the engine stop safety key until all inspection steps are completed.

Step 1: Remove the two fasteners securing the black plastic cover with a Phillips screwdriver and remove the black plastic cover to expose the belt system.



Figure 2. Black plastic cover located between the engine and the discharge chute.

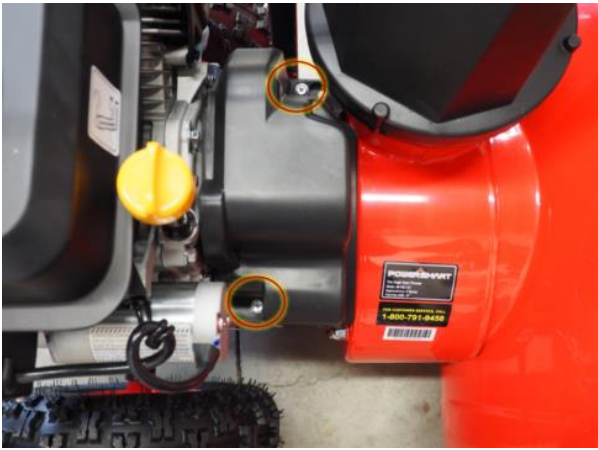


Figure 3. Two screws must be removed from the black plastic cover.

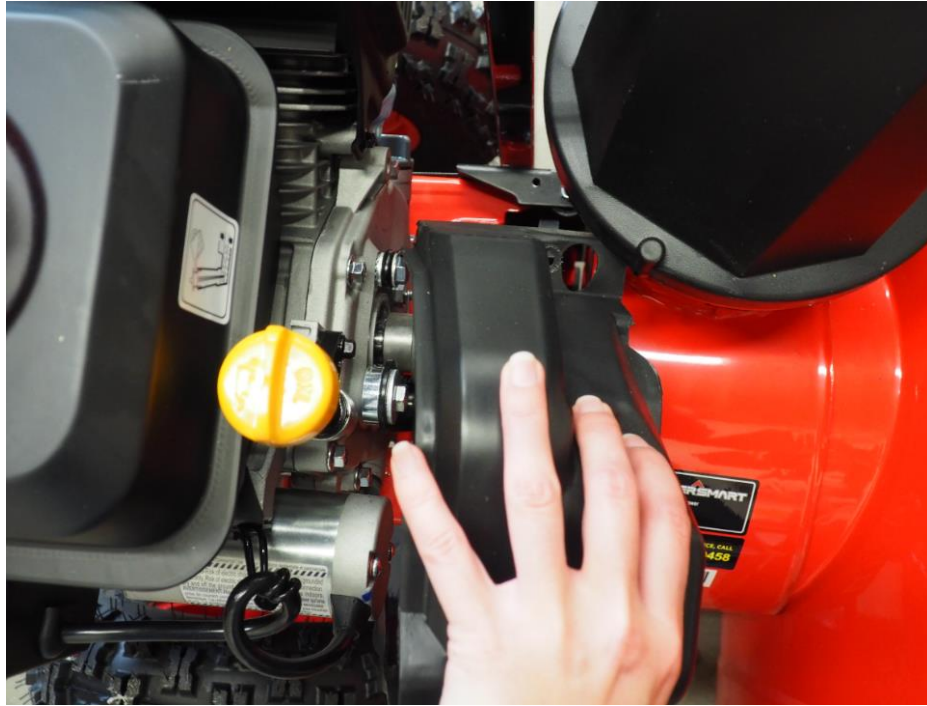


Figure 4. Remove the black plastic cover to expose the belt system.

Step 2: Identify the *auger pulley bolt*. The auger pulley bolt holds the pulley that drives the auger to the red housing. In Figure 5, the auger pulley bolt is identified with a yellow arrow.

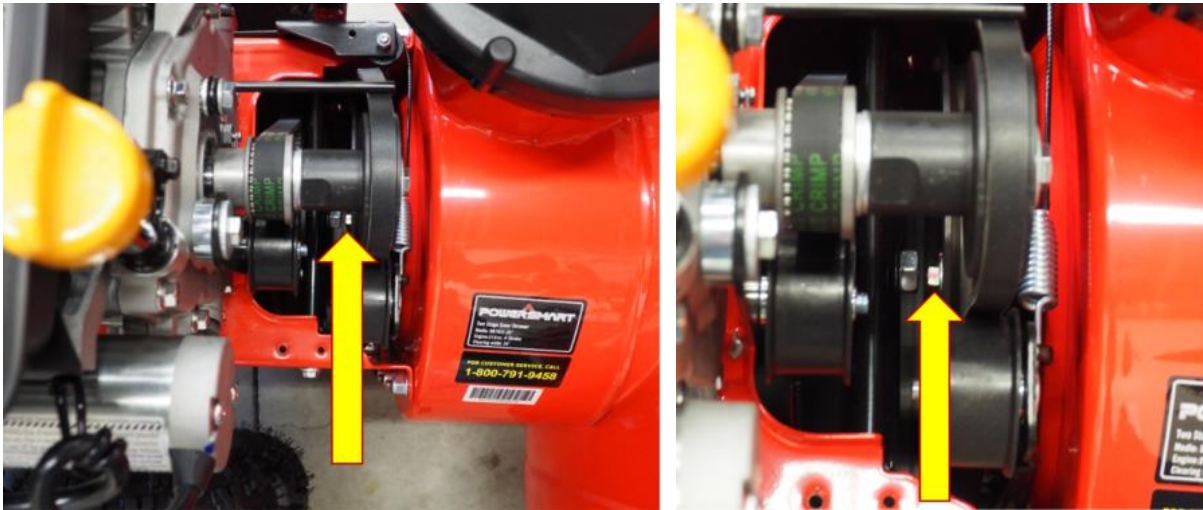


Figure 5. The auger pulley bolt is the bolt closest to the auger housing.

Step 3: Determine if the *auger pulley bolt* is loose by checking for one or more of the following conditions:

- You can see visible threads
- The bolt can be easily turned
- The washer can freely move between the bolt and the pulley (Use a long narrow tool, such as a screwdriver, as shown in Figure 6, to see whether the washer can be moved.)

If any of these conditions exists, then bolt is **too loose** and your drive system may unexpectedly engage. **REPAIR YOUR SNOW THROWER:** Contact Amerisun for a free repair kit with instructions and a tool to tighten the loose pulley bolt or instructions on how to take the machine to a service center to have the bolt tightened free of charge.

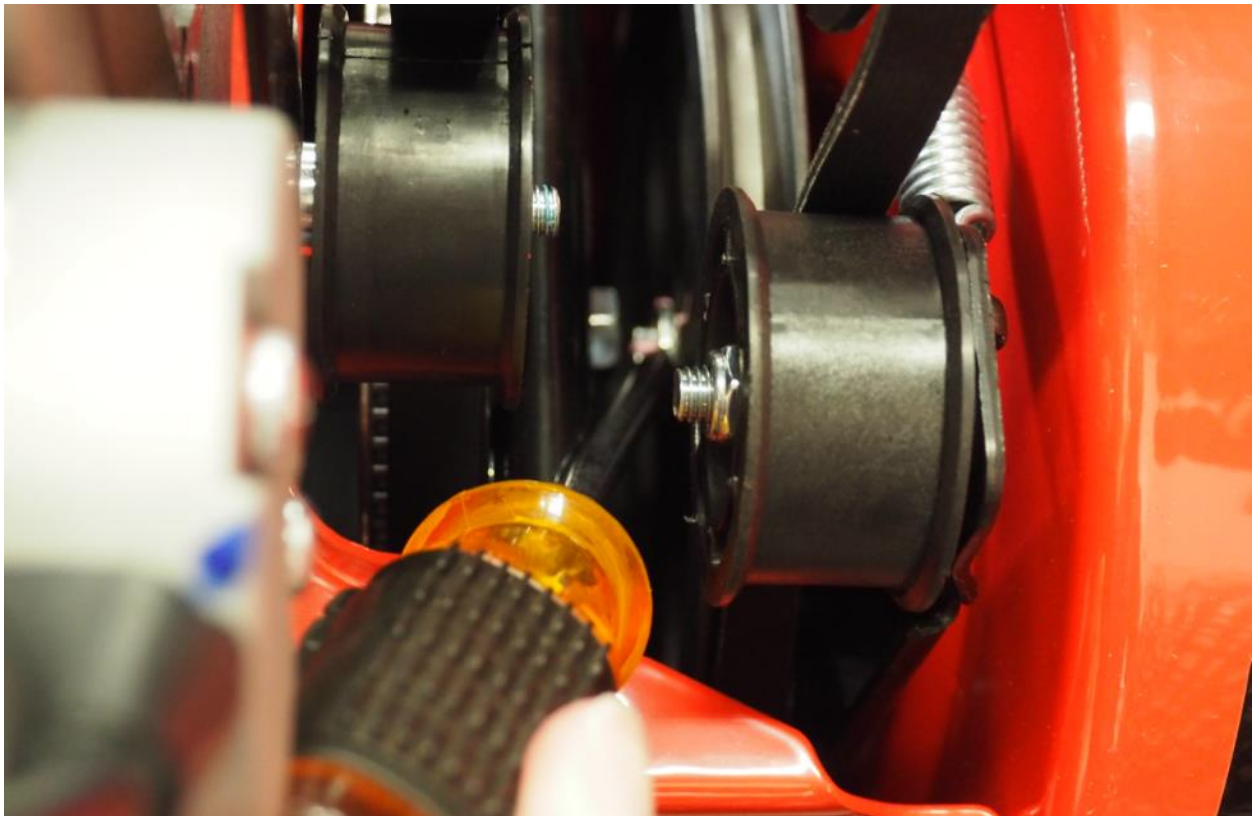


Figure 6. Use a tool with a long narrow end to check whether the washer can be moved.



Figure 7. This auger pulley bolt (on the right side of the photo and marked with pink paint) is tightly secured against the pulley.

Figure 7 is an example of a properly secured *auger pulley bolt*; the bolt and washer are secured tightly to the pulley. Figure 8 and Figure 9 show an auger pulley bolt that is **too loose**; if your Snow Thrower bolt has exposed threads, easily turns, or the washer can be moved, your Snow Thrower requires service.

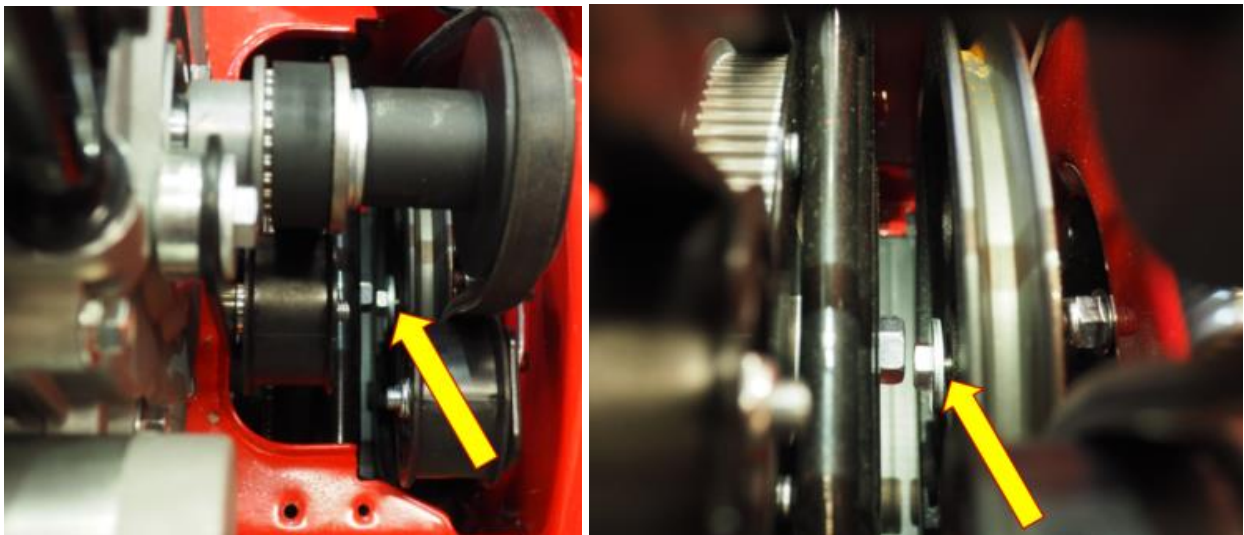


Figure 8. There are threads visible between the pulley and washer in this snow thrower. This Snow Thrower needs service.

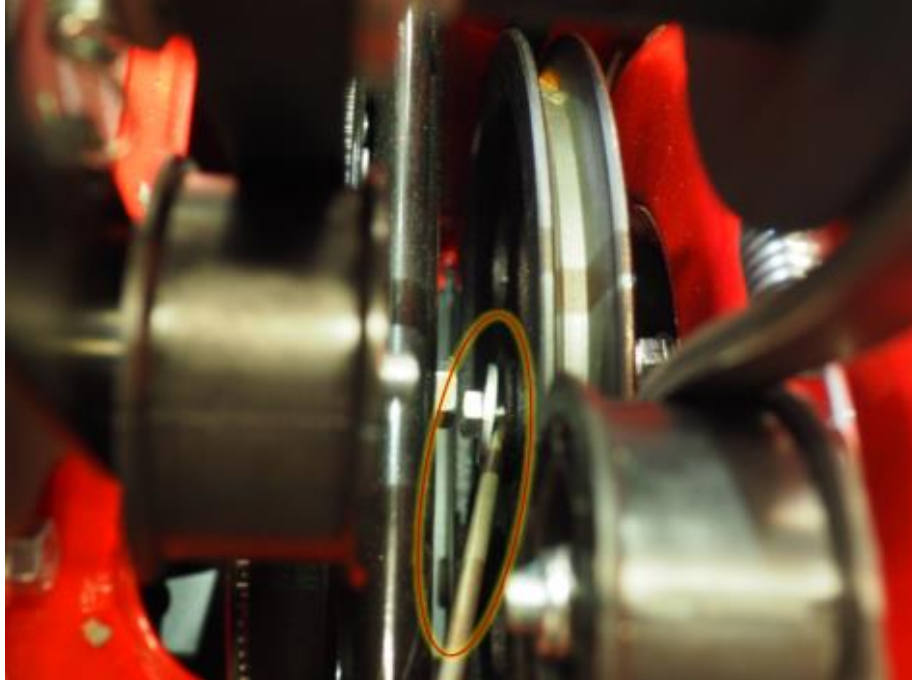


Figure 9. A screwdriver can be used to slide the washer away from the pulley; thus, this auger pulley bolt is too loose and this Snow Thrower needs service.

Step 4: If your *auger pulley bolt* is firmly securing the washer to the pulley, replace the black plastic cover and reinstall the two Phillips screws to continue using your Snow Thrower. If your auger pulley bolt is **too loose**, your Snow Thrower must be serviced to tighten this bolt appropriately. Contact Amerisun for a free repair kit with instructions and a tool to tighten the loose pulley bolt or instructions on how to take the machine to a service center to have the bolt tightened free of charge.