

Amerisun PowerSmart Snow Blower Repair Instructions



IMPORTANT SNOW BLOWER SAFETY NOTICE

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

Your snow blower is equipped with a drive system that may become engaged unexpectedly if the *auger pulley bolt* inside the snow blower becomes loose. If this repair is not performed, the snow blower may move unexpectedly, causing injury or damage. Your snow blower should be inspected regularly; retain these instructions for continued reference.

Please refer to the “Amerisun PowerSmart Snow Blower Inspection Instructions” to determine whether your *auger pulley bolt* is loose. If it is loose, either contact Amerisun at 1-800-791-9458 for instructions on taking the machine to have your snow blower serviced free of charge, or use these instructions and the tool provided by Amerisun to perform the repair.

Note that there is restricted access to the pulley bolt and there are cut hazards and pinch hazards associated with this repair; read all instructions before beginning and determine if you have the skill required to perform the repair safely. If you are unfamiliar with basic tools and machine safety, contact Amerisun at 1-800-791-9458 for assistance.

Bolt Tightening Steps for Two-Stage Gas Snow Blower

Required Tools: To perform this inspection, you will need (1) the provided extra-long 13 mm wrench from Amerisun and (2) a piece of wood 2 x 4 or a stout metal rod at least two feet long (shown in Figure 1) to hold the impeller (the portion of the auger that flings snow up through the discharge chute) while the pulley bolt is tightened.



Figure 1. Wood 2 x 4 or stout metal rod that can be used to block the impeller.

⚠ WARNING

Before inspecting your snow blower, remove the engine stop safety key and make sure all components are cool. See Figure 2. **DO NOT** reinsert the engine stop safety key until all inspection steps are completed.

If at any point you are unsure of how to proceed, call customer service at the number listed on the snow blower (1-800-791-9458).

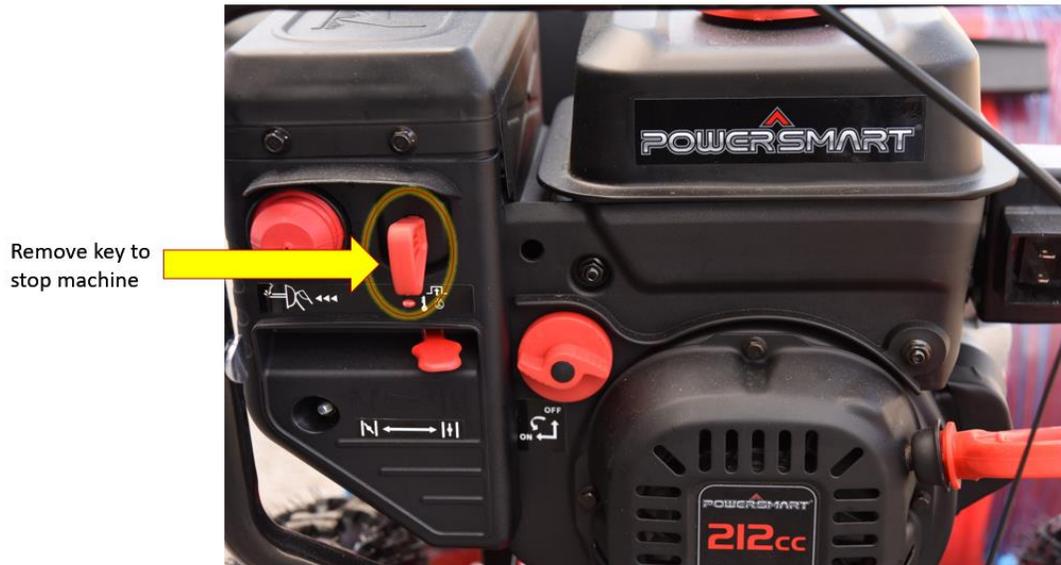


Figure 2. Engine stop safety key; remove for all maintenance and repairs.

Step 1: Remove the two fasteners securing the black plastic cover with a Phillips screwdriver (see Figure 3) and remove the black plastic cover to expose the belt system (see Figure 4).



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

Step 3: Insert a wood 2 x 4 or stout metal rod into the discharge chute of the snow blower, as shown in Figure 6, and turn the pulley (shown in Figure 7) by pulling upward on the pulley belt to turn the pulley clockwise until the wood or rod is secured against the edge of the snow blower chute and blocks the impeller from moving any further, as shown in Figure 8.

CAUTION

Personal injury or damage to the object used to block the impeller or other property may occur if an improper object is utilized.

WARNING

Do not place hands or other parts of your body into the discharge chute. Sharp edges and moving parts can pinch and cut.

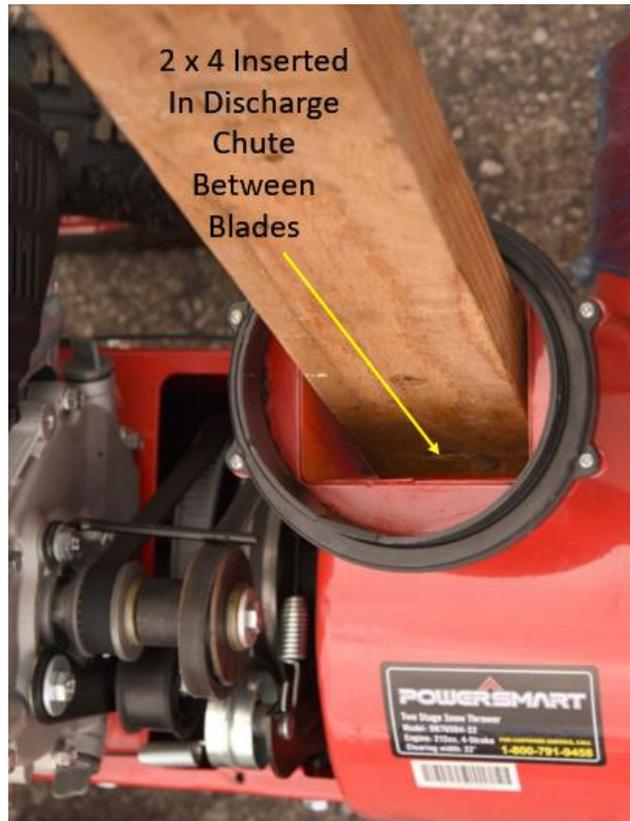


Figure 6. A 2 x 4 (shown) or stout metal rod inserted in the discharge chute will block the impeller from turning so the bolt can be tightened.

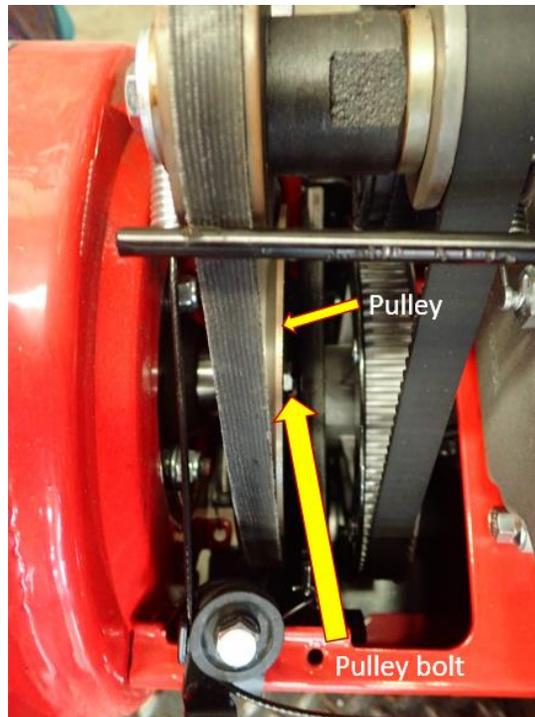


Figure 7. Once the 2 x 4 or stout metal rod is in the discharge chute, identify the pulley and pulley bolt; turn the pulley until the wood 2 x 4 or stout rod is wedged between the impeller and the housing so the pulley can no longer rotate.

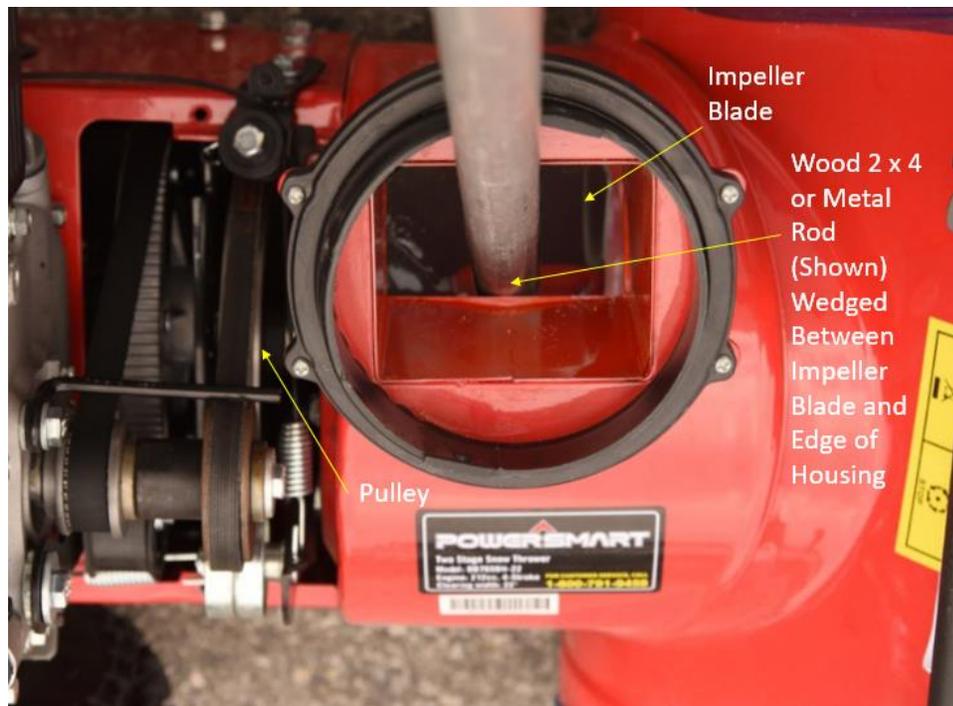


Figure 8. Ensure that the 2 x 4 or the stout metal rod (shown) is firmly wedged between the impeller blade and the snow blower housing by turning the pulley before tightening the pulley bolt.

Step 4: Use the provided extra-long 13 mm wrench to tighten the *auger pulley bolt*; the top of the pulley bolt faces toward the engine (see Figure 9) and is tightened by turning the wrench in the clockwise direction when facing the snow blower from the engine. The bolt is most easily accessed from the unlabeled side of the snow blower (see Figure 10). For 22" snow blowers, you may need to have an assistant engage the drive plate (i.e., press the handle as if driving the snow blower) to allow more space to access the bolt.

Tighten the bolt until the washer is firmly held against the pulley bolt (see Figure 10 and Figure 11). Continue tightening until a force of approximately 18 pounds is applied at the outer end of the wrench while the wrench is clear of any obstructions and is only applying torque to the bolt. A force of 18 pounds is similar to the amount of force required to lift two one-gallon jugs of milk. If the wrench hits an obstruction before the bolt is fully tight, reposition the impeller and 2 x 4 or stout metal rod to allow additional tightening until the wrench force is approximately 18 pounds.

⚠ CAUTION

Use care while tightening the bolt to avoid slippage or breakage of the object holding the impeller.

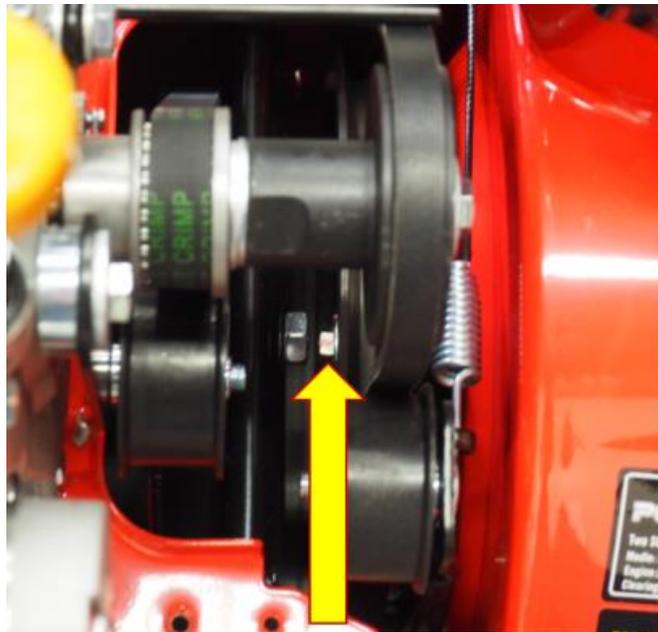


Figure 9. The auger pulley bolt is the bolt closest to the auger housing. Most direct access to this bolt is from the opposite side of the snow blower (the side without the PowerSmart label).

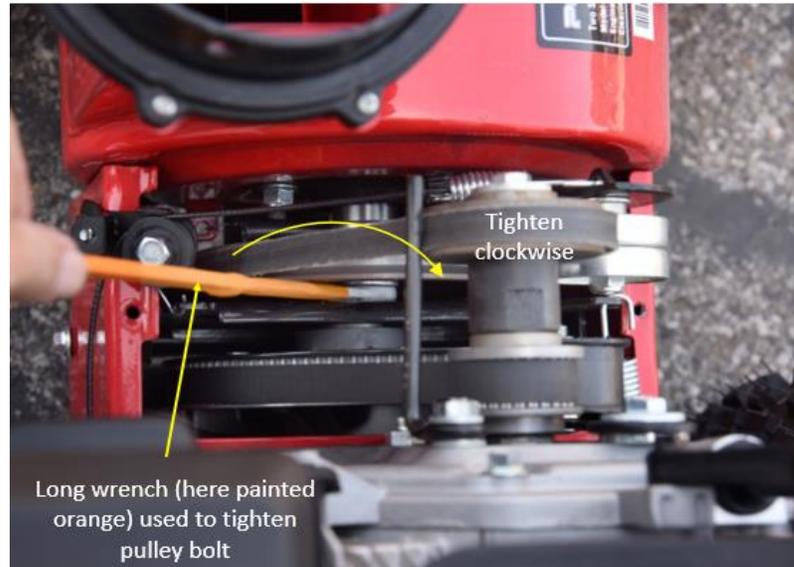


Figure 10. Tighten the pulley bolt using the provided 13 mm wrench (colored orange for visibility in the photo above) from the unlabeled side of the snow blower. Take care to avoid slippage of the tool or impeller.

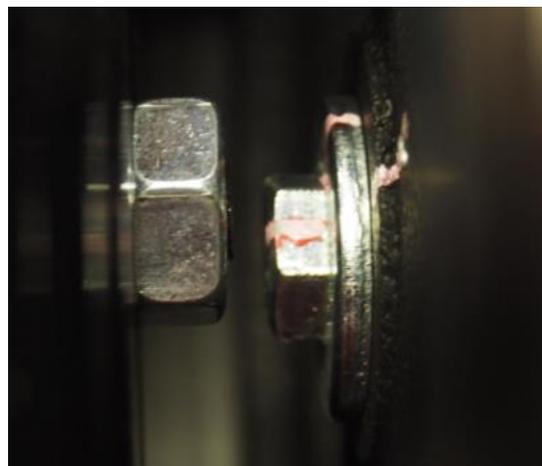


Figure 11. To complete the repair, the auger pulley bolt should be securely fastened against the washer and pulley, as shown above.

Step 5: Remove the long wrench, remove the 2 x 4 or metal rod blocking the impeller, and replace the belt cover. Then replace the chute; refer to your owner's manual (also available online) for proper installation.

Step 6: Replace the engine stop safety key in the snow blower; you are now ready to continue using your snow blower.

IMPORTANT: It is important to inspect your snow blower after the first use following repair, and at least seasonally thereafter, to ensure that the auger pulley bolt remains securely fastened against the washer and pulley.