

Index-DOGI65985-8772

## Instruction Manual: Replacement Shear Pin Bolt & Nut

Model: Index-DOGI65985-8772

Brand: Generic

### INTRODUCTION

This manual provides essential information for the installation and maintenance of the Replacement Shear Pin Bolt & Nut for Ariens Deluxe 28 Sno-Thro models 921022, 921027, and 921314. This component is crucial for the safe and effective operation of your snow blower's auger system, designed to shear off under excessive load to protect the gearbox and engine from damage.

### PRODUCT OVERVIEW

The shear pin bolt and nut assembly is a critical safety component. It is designed to break when the auger encounters an obstruction, preventing damage to more expensive parts of the snow blower. Regular inspection and correct replacement are vital for continued safe operation.



**Figure 1:** The Replacement Shear Pin Bolt and Nut. This image displays the complete assembly, consisting of one shear pin bolt and one nut, as supplied for replacement.

### COMPATIBILITY

This replacement shear pin bolt and nut is compatible with the following Ariens Deluxe 28 Sno-Thro models:

- Ariens Deluxe 28 Sno-Thro 921022
- Ariens Deluxe 28 Sno-Thro 921027
- Ariens Deluxe 28 Sno-Thro 921314

It is essential to verify your snow blower's model number to ensure proper fitment. This part may also replace multiple other part numbers.

### SPECIFICATIONS

Component	Specification
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Shear Pin Bolt Length	2 inches
Shear Pin Bolt Outside Diameter	5/16 inches
Nut Wrench Size Required	1/2 inch
Material	Durable metal, designed for shearing under stress
Color	Black



**Figure 2:** Detailed dimensions of the shear pin bolt. This diagram illustrates the length of 1 15/16 inches (approximately 2 inches) and an outside diameter of 5/16 inches for the bolt shaft, along with a head width of 1/2 inch.



**Figure 3:** Detailed dimensions of the nut. This diagram shows the nut's width of 1/2 inch and a thickness of 5/16 inches.

## SETUP AND INSTALLATION

Replacing a shear pin bolt and nut is a straightforward process. Always ensure the snow blower is turned off and the spark plug wire is disconnected before performing any maintenance or replacement to prevent accidental starting.

1. **Safety First:** Turn off the snow blower engine. Remove the ignition key if applicable, and disconnect the spark plug wire to prevent accidental starting.
2. **Locate Broken Pin:** Identify the location of the broken shear pin on the auger shaft. It will typically be found where the auger connects to the main drive shaft.
3. **Remove Old Components:** If parts of the old shear pin or nut remain, carefully remove them. You may need pliers or a punch to push out any remaining pieces of the bolt.
4. **Insert New Shear Pin Bolt:** Align the holes in the auger and the auger shaft. Insert the new shear pin bolt through these aligned holes.
5. **Secure with Nut:** Thread the new nut onto the end of the shear pin bolt.
6. **Tighten Nut:** Use a 1/2-inch wrench to tighten the nut. Do not overtighten; the nut should be snug enough to hold the bolt securely without deforming the pin, allowing it to shear as intended.
7. **Reconnect Spark Plug:** Once the new shear pin is securely in place, reconnect the spark plug wire.

It is recommended to keep spare shear pins on hand, especially during heavy snow seasons.

## OPERATING

The shear pin bolt and nut are passive safety components and do not require direct operational steps. Their function is to protect the snow blower's internal mechanisms by breaking when the auger encounters an immovable object. Ensure that only genuine or compatible replacement shear pins are used to maintain the intended safety design of your equipment.

## MAINTENANCE

Regular maintenance of your snow blower includes checking the shear pins. While shear pins are designed to break, it's good practice to:

- **Inspect Regularly:** Before each use, or at least seasonally, inspect the shear pins for any signs of wear, bending, or damage.
- **Replace as Needed:** If a shear pin breaks, replace it immediately with the correct type and size to ensure proper operation and protection of your snow blower.
- **Keep Spares:** Always have spare shear pins readily available, especially during periods of heavy snow.

## TROUBLESHOOTING

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Most issues related to shear pins involve their breakage. Here are common scenarios and solutions:

- **Problem:** Auger stops spinning.
  - **Cause:** Shear pin has broken due to hitting an obstruction (e.g., rock, ice, frozen newspaper).
  - **Solution:** Turn off the snow blower, disconnect the spark plug, clear the obstruction, and replace the broken shear pin following the "Setup and Installation" instructions.
- **Problem:** Shear pins break too frequently.
  - **Cause 1:** Repeatedly hitting obstructions.
  - **Solution 1:** Be more careful when clearing snow, especially in areas where debris might be hidden.
  - **Cause 2:** Using incorrect or non-standard shear pins (e.g., regular bolts).
  - **Solution 2:** Always use genuine or correctly specified replacement shear pins designed to break at the appropriate load. Regular bolts are too strong and can lead to gearbox or engine damage.
  - **Cause 3:** Auger or gearbox issues causing excessive resistance.
  - **Solution 3:** Inspect the auger and gearbox for any binding, damage, or foreign objects. Consult a qualified service technician if necessary.

## WHAT'S IN THE BOX

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The package includes:

- 1 x Shear Pin Bolt
- 1 x Nut

Note: The product comes as shown in Figure 1.

## WARRANTY INFORMATION

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Specific warranty details for this replacement part are not provided in the product information. Please refer to the seller's return policy or contact the seller directly for any warranty-related inquiries.

## SUPPORT AND CONTACT

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For further assistance or questions regarding this replacement part, please contact the seller or manufacturer through the platform where the purchase was made. Ensure you have your product model number and purchase details ready for efficient support.

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This manual is for informational purposes only. Always follow safety guidelines provided by your snow blower manufacturer.