

YTBDHYUE Replacement Shear Pin Set

Instruction Manual

YTBDHYUE REPLACEMENT SHEAR PIN BOLT & NUT SET

For Ariens Pro 36 Snow Blowers (Models 926040, 926507)

1. INTRODUCTION

This manual provides essential information for the proper installation and maintenance of your YTBDHYUE Replacement Shear Pin Bolt & Nut Set. These shear pins are designed as a critical safety component for Ariens Pro 36 snow blowers, specifically models 926040 and 926507. They are engineered to break under excessive load, protecting the snow blower's auger gearbox and other vital components from damage when the auger encounters an obstruction.

Please read these instructions carefully before attempting any installation or maintenance to ensure safe and effective operation of your snow blower.

2. PRODUCT OVERVIEW

The YTBDHYUE Replacement Shear Pin Bolt & Nut Set includes five (5) shear pin bolts and five (5) corresponding nuts. These components are manufactured to meet or exceed the specifications required for compatible Ariens snow blower models.



Figure 1: YTBDDHYUE Replacement Shear Pin Bolt & Nut Set. This image displays the five shear pin bolts and their accompanying nuts, which are crucial for protecting your snow blower's auger system.

3. SAFETY INFORMATION

Always prioritize safety when working with machinery. Failure to follow safety guidelines can result in serious injury or equipment damage.

- **Disconnect Power:** Before performing any maintenance or installation, ensure the snow blower's engine is off and the spark plug wire is disconnected to prevent accidental starting.
- **Wear Protective Gear:** Use appropriate personal protective equipment, including gloves and eye protection.
- **Consult Snow Blower Manual:** Refer to your specific Ariens snow blower owner's manual for additional safety precautions and detailed instructions.
- **Use Correct Parts:** Only use shear pins specifically designed for your snow blower model. Using incorrect fasteners can compromise safety and damage the machine.

4. INSTALLATION INSTRUCTIONS

This section outlines the procedure for replacing a broken shear pin on your Ariens Pro 36 snow blower.

1. **Prepare the Snow Blower:** Turn off the engine, remove the ignition key (if applicable), and disconnect the spark plug wire. Ensure the auger is completely stopped.
2. **Locate Broken Pin:** Identify the auger section where the shear pin has broken. The auger will likely spin freely on the shaft at that point.
3. **Remove Old Components:** If any remnants of the old shear pin bolt or nut remain, carefully remove them from the auger shaft and housing. You may need pliers or a punch to clear the holes.
4. **Align Auger and Shaft:** Rotate the auger until the holes in the auger blade align with the holes in the auger shaft.

5. **Insert New Shear Pin:** Insert a new YTBDDHYUE shear pin bolt through the aligned holes.
6. **Secure with Nut:** Thread the corresponding nut onto the shear pin bolt and tighten it securely. Do not overtighten, as this can compromise the pin's ability to shear correctly. The nut should be snug, allowing the pin to function as intended.
7. **Reconnect Power:** Once all shear pins are replaced and secured, reconnect the spark plug wire.
8. **Test Operation:** Start the snow blower and test the auger operation in a clear area to ensure proper function.

5. USAGE AND FUNCTION

Shear pins are designed to be the weakest link in the auger drive system. When the auger encounters a solid object (e.g., a rock, ice chunk, or hidden debris) that could damage the gearbox or engine, the shear pin is engineered to break. This prevents the auger from rotating, thereby protecting the more expensive internal components of the snow blower.

It is normal for shear pins to break occasionally during operation, especially in challenging conditions. Always replace a broken shear pin with an identical, compatible part to maintain the snow blower's safety and operational integrity.

6. MAINTENANCE AND INSPECTION

Regular inspection of your snow blower's shear pins is recommended, especially before and after each use, or after encountering any obstruction.

- **Visual Check:** Periodically inspect all shear pins for signs of bending, cracking, or wear.
- **Functionality Check:** Ensure the auger sections are securely attached to the shaft by the shear pins. If an auger section spins freely when the engine is off and the other sections are engaged, a shear pin may be broken.
- **Replacement:** Always replace a broken shear pin immediately. Keep spare shear pins on hand, such as this YTBDDHYUE set, to minimize downtime during snow removal.

7. TROUBLESHOOTING COMMON ISSUES

If your snow blower's auger is not turning, or only one side is turning, after replacing a shear pin, consider the following:

- **Incorrect Pin Installation:** Double-check that the shear pin is fully inserted through both the auger and shaft holes and that the nut is securely fastened.
- **Multiple Broken Pins:** Inspect all auger sections. It is possible that more than one shear pin broke, especially if a significant obstruction was encountered.
- **Obstruction Still Present:** Ensure that the original obstruction that caused the pin to break has been completely removed from the auger housing.
- **Incorrect Pin Type:** Verify that the replacement shear pins are the correct type and size for your specific Ariens snow blower model. Using pins that are too strong can lead to gearbox damage.
- **Underlying Mechanical Issue:** If shear pins continue to break frequently, or if the auger still does not function after proper replacement, there may be a deeper mechanical issue with the auger gearbox or drive system. In such cases, consult a qualified service technician.

8. SPECIFICATIONS

- **Product Type:** Replacement Shear Pin Bolt & Nut Set
- **Quantity:** 5 Bolts, 5 Nuts
- **Compatibility:** Ariens Pro 36 Snow Blower Models 926040, 926507
- **Manufacturer:** YTBDDHYUE
- **Part Number:** 20240715