

## PowerSmart 302040091

# PowerSmart 302040091 Snow Blower Auger V-Belt Instruction Manual

For Models: DB7006B, PSS1210LED, MB7006B

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## 1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your PowerSmart 302040091 Snow Blower Auger V-Belt. This V-belt is a critical replacement part designed to ensure efficient power transmission to the auger system of compatible PowerSmart snow blowers. Please read this manual thoroughly before attempting any installation or maintenance to ensure safety and optimal performance.

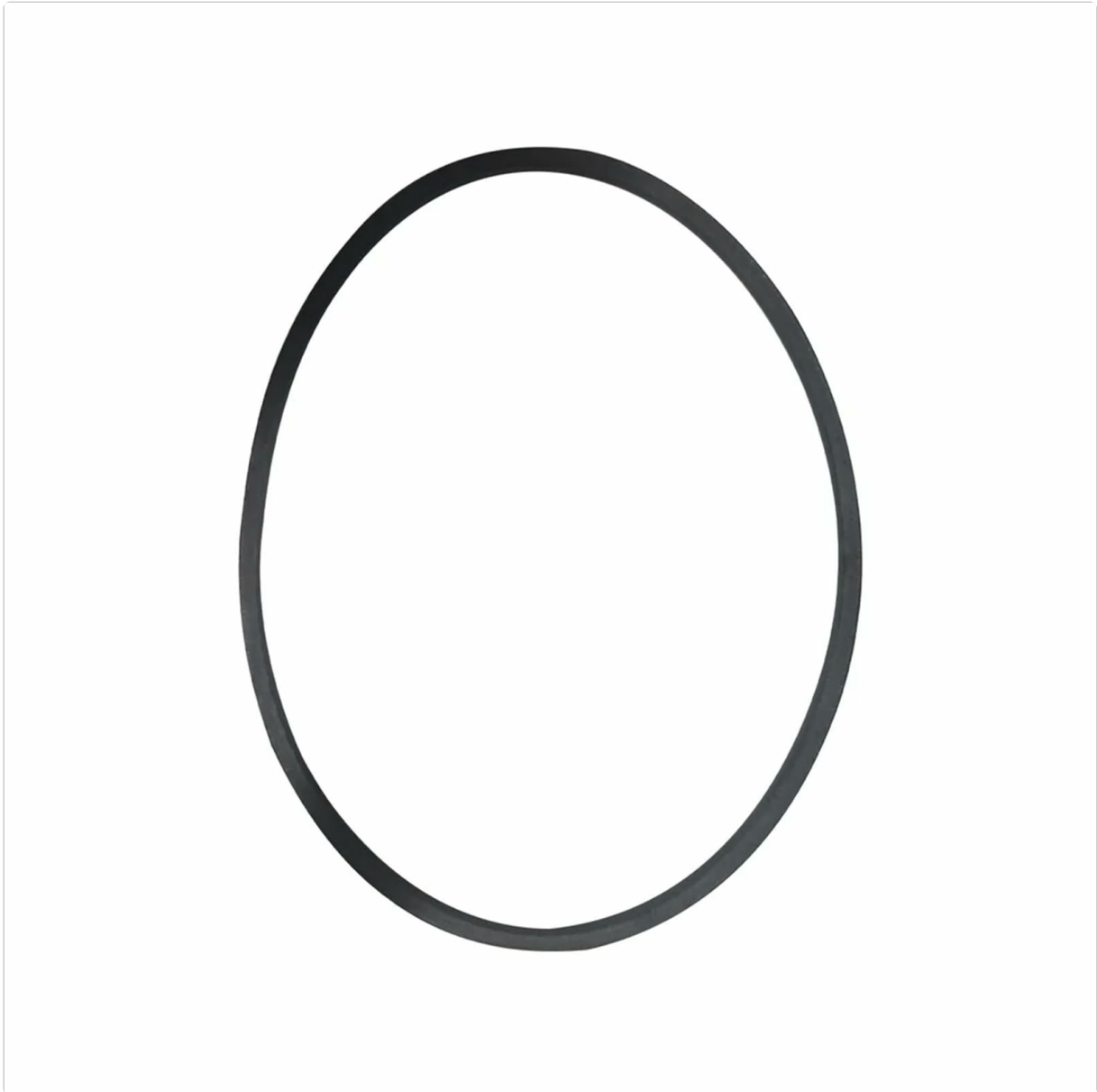
## 2. SAFETY INFORMATION

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

- **Disconnect Power:** Before performing any maintenance or installation, ensure the snow blower's engine is off, the spark plug wire is disconnected, and any electric start is unplugged to prevent accidental startup.
- **Wear Protective Gear:** Always wear appropriate personal protective equipment (PPE), including safety glasses, gloves, and sturdy footwear.
- **Read Snow Blower Manual:** Refer to your specific PowerSmart snow blower's owner's manual for additional safety precautions and detailed instructions relevant to your model.
- **Use Correct Tools:** Use only the recommended tools for installation and removal to prevent damage to fasteners and components.
- **Secure Components:** Ensure all bolts, nuts, and covers are securely fastened after installation to prevent parts from loosening during operation.
- **Keep Clear:** Keep hands, feet, and clothing away from moving parts, especially during belt installation and testing.

## 3. PRODUCT OVERVIEW

The PowerSmart 302040091 Auger V-Belt is a crucial component for transmitting power from the engine to the auger assembly, enabling the snow blower to clear snow effectively. It is designed for durability and wear resistance.



**Figure 1:** PowerSmart 302040091 Snow Blower Auger V-Belt. This image shows the black rubber V-belt, coiled on a white surface, highlighting its material and shape.

### Key Features:

- **Part Number:** 302040091
- **Compatibility:** Specifically designed for PowerSmart Snow Blower Models DB7006B, PSS1210LED, and MB7006B.
- **Material:** Made of high-quality, durable rubber for efficient power transmission and wear resistance.

## 4. INSTALLATION / REPLACEMENT

Replacing the auger V-belt requires careful attention to detail. Follow these steps to ensure proper installation.

### Tools Required:

- Socket wrench set (1/2 inch or 13mm, and 10mm sockets)

- Impact driver (optional, for faster bolt removal)
- Wrench (for tight spots)

## Step-by-Step Replacement Guide:

### 1. Prepare the Snow Blower:

- Ensure the engine is off and cool. Disconnect the spark plug wire for safety.
- Position the snow blower on a stable, flat surface.

### 2. Remove the Belt Cover:

- Locate and remove the screws holding the belt cover on the side of the engine. Carefully remove the cover to expose the pulleys and belts.

### 3. Disengage the Chute Control Rod:

- Pull the pin that secures the chute control rod to its bracket. This will disengage the chute control.

### 4. Remove the Belt Tensioner Cable:

- Identify the cable connected to the belt tensioner pulley. This cable runs from the handle down to the tensioner.
- Remove the bolts (typically 10mm) holding the bracket for the belt tensioner cable. This will allow you to detach the cable from the tensioner.

### 5. Separate the Auger Housing:

- Locate the three nuts (typically 1/2 inch or 13mm) on each side of the snow blower that connect the auger housing (front part) to the main body of the machine.
- Carefully remove these six nuts.
- Gently separate the auger housing from the main body. This will expose the auger belt for replacement.

### 6. Replace the Auger V-Belt:

- Remove the old, worn auger V-belt from the pulleys.
- Place the new PowerSmart 302040091 V-belt over the pulleys. Ensure it is correctly seated in the grooves.

### 7. Reassemble the Snow Blower:

- Carefully bring the auger housing back into alignment with the main body.
- Reinstall the six nuts (three on each side) that secure the auger housing. Tighten them securely.
- Reattach the belt tensioner cable to its bracket and secure it with the bolts.
- Reinstall the chute control rod and secure it with its pin.
- Replace the belt cover and secure it with its screws.

### 8. Test the Belt:

- Reconnect the spark plug wire.
- Start the snow blower and engage the auger to ensure the new belt is functioning correctly and not slipping.

## Visual Guides:

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**Video 1:** This video demonstrates the flexibility and material quality of a snowblower auger drive belt, highlighting its efficient transmission, durability, wear resistance, and shock absorption properties. It shows the belt being bent and twisted to illustrate its robust construction.

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**Video 2:** This video showcases a snowblower belt, emphasizing its perfect fit for PowerSmart motor models DB7659 and DB7659H. It highlights the belt's efficient transmission, durability, wear resistance, and shock absorption, demonstrating its flexibility and robust construction.

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**Video 3:** This video presents a snow blower drive belt, focusing on its thickened rubber material for stretch resistance and corrosion prevention. It also highlights the thickened V-belt design for wear and slip resistance, and an inner aramid thread core to resist heavy loads and prevent breakage.

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**Video 4:** This video displays a snow blower V-belt, emphasizing its durable and wear-resistant high-quality rubber material. It also highlights the belt's shock absorption capabilities, effectively reducing mechanical impact and vibration for smoother operation.

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**Video 5:** This video provides a detailed guide on how to replace the auger belt on a PowerSmart snow blower. It covers steps such as removing the belt cover, disengaging the chute control, detaching the belt tensioner cable, separating the auger housing, replacing the belt, and reassembling the machine.

## 5. MAINTENANCE

Regular maintenance of your auger V-belt ensures longevity and reliable performance of your snow blower.

- **Inspect Regularly:** Before each use, inspect the V-belt for any signs of wear, cracks, fraying, or glazing. Replace immediately if damage is observed.
- **Check Tension:** Ensure the belt tension is correct as per your snow blower's manual. An overly loose belt can slip, while an overly tight belt can cause premature wear on the belt and pulleys.
- **Keep Clean:** Keep the belt and pulleys free from snow, ice, dirt, and debris. These can cause slippage and accelerated wear.
- **Proper Storage:** When storing the snow blower for extended periods, especially during off-season, ensure the belt is clean and dry. Store in a cool, dry place away from direct sunlight and extreme temperatures.

## 6. TROUBLESHOOTING

If you encounter issues with your auger V-belt, consider the following common problems and solutions:

- **Auger Not Engaging or Slipping:**
  - **Cause:** Loose, worn, or broken V-belt.
  - **Solution:** Inspect the belt for damage. Adjust belt tension if loose. Replace the belt if worn or broken.
- **Excessive Noise from Belt Area:**
  - **Cause:** Worn belt, misaligned pulleys, or debris in the belt path.
  - **Solution:** Check belt condition and replace if necessary. Inspect pulleys for alignment and clear any obstructions.
- **Belt Comes Off Pulleys:**
  - **Cause:** Incorrect belt size, worn pulleys, or improper tension.
  - **Solution:** Ensure the correct belt (302040091) is installed. Check pulleys for wear or damage. Adjust belt tension.

## 7. SPECIFICATIONS

Feature	Detail
Part Number	302040091
Product Type	Auger V-Belt
Brand	PowerSmart
Compatible Models	DB7006B, PSS1210LED, MB7006B
Material	High-quality Rubber
Item Weight	3 pounds (approximate, for packaging)
Package Dimensions	8 x 8 x 5 inches (approximate)

## 8. WARRANTY & SUPPORT

For warranty information, technical support, or to purchase additional replacement parts, please contact PowerSmart customer service directly. Refer to your original snow blower's owner's manual or the PowerSmart website for the most up-to-date contact information and warranty details.

**PowerSmart Customer Service:** 1-800-791-9458 (as indicated on product label in video)