

[Manuals.plus](#) /

› [Stens](#) /

› Stens Snowblower Chute Motor 780-050 User Manual for Ariens and MTD Snowblowers

Stens 780-050

Stens Snowblower Chute Motor 780-050 User Manual

For Ariens and MTD Snowblowers

[Overview](#) [Compatibility](#) [Installation](#) [Introduction](#) [Operation](#) [Safety Information](#) [Maintenance](#) [Product](#) [Troubleshooting](#) [Specifications](#) [Warranty](#)
[& Support](#)

1. INTRODUCTION

This manual provides essential instructions for the proper installation, operation, and maintenance of your Stens Snowblower Chute Motor 780-050. Please read this manual thoroughly before attempting any procedures to ensure safe and efficient use. This motor is designed as a replacement part for specific Ariens and MTD snowblower models, ensuring your equipment continues to function correctly.

2. SAFETY INFORMATION

WARNING: Refer to the safety warnings provided with your snow blower for safe operation and maintenance.

Always prioritize safety when working with power equipment. Disconnect the snowblower from its power source before performing any installation, maintenance, or repair. Wear appropriate personal protective equipment, including gloves and eye protection. If you are unsure about any step, consult a qualified technician.

3. PRODUCT OVERVIEW

The Stens Snowblower Chute Motor 780-050 is a direct replacement component designed to control the direction of the snow discharge chute on compatible snowblowers. This motor ensures precise and reliable adjustment of the chute, enhancing the functionality of your snow removal equipment.



Figure 1: Stens Snowblower Chute Motor 780-050, showing the main body and gear assembly.



Figure 2: Side view of the Stens Snowblower Chute Motor 780-050, highlighting the electrical connector.

4. COMPATIBILITY

This Stens Snowblower Chute Motor 780-050 is a replacement for the following OEM numbers and is compatible with the listed snowblower models:

Replaces OEM Numbers:

- **Ariens:** 52423300
- **MTD:** 724-0249B, 924-0249B, 953-0912A

Compatible With/Replacement For:

- **Ariens Models:** 524220, 924118, 924121, 924122, 924332, 924502, 924503, 924505, 924506, 924508, 924517, 924551, ST8524, ST1128, ST1124, ST1332, ST1336
- **MTD Models:** 31AD4M3F190, 31AD5L3F190 S, 31AD5P3H190 S, 31AD7N3F190 S, 31AE5D8E099, 31AH4G3F190, 31AH4Q3G190, 31AH573H190, 31AH5B3H190, 31AH5F, 31AH77, 31AH7E, 31AH7Q Snow Boss snowblowers

Always verify the part number and compatibility with your specific snowblower model before installation.

5. INSTALLATION

Installation of the snowblower chute motor typically involves replacing the existing motor. The following steps are general guidelines. Always refer to your snowblower's specific service manual for detailed instructions.

1. **Preparation:** Ensure the snowblower is turned off, the engine is cool, and the spark plug wire is disconnected to prevent accidental starting.
2. **Access the Motor:** Locate the chute motor assembly on your snowblower. This may require removing covers or other components.
3. **Disconnect Wiring:** Carefully disconnect the electrical wiring from the old motor. Note the orientation of the wires if they are not color-coded or keyed.
4. **Remove Old Motor:** Unbolt or unfasten the old chute motor from its mounting bracket. Keep track of all hardware.
5. **Install New Motor:** Position the new Stens 780-050 motor in the mounting bracket and secure it with the original hardware. Ensure it is firmly seated.
6. **Connect Wiring:** Connect the electrical wiring to the new motor. Ensure connections are secure and correct.
7. **Test Functionality:** Reconnect the spark plug wire. Briefly start the snowblower (if safe to do so) and test the chute rotation mechanism to ensure the new motor operates correctly.
8. **Reassemble:** Reinstall any covers or components that were removed during the process.

If you are not comfortable performing this installation, it is recommended to seek assistance from a certified service technician.

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Video 1: Demonstration of connecting the electrical harness to a snowblower chute motor. This video illustrates the connection process for a similar motor.

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Video 2: Overview of a snowblower chute motor, showing its components and general appearance. This video provides a visual reference for the motor.

6. OPERATION

Once installed, the Stens Snowblower Chute Motor 780-050 operates in conjunction with your snowblower's control panel. Typically, a joystick or switch on the control panel allows you to electrically adjust the snow chute's direction. Move the control in the desired direction (left or right) to rotate the chute and direct the expelled snow away from your path. Ensure the motor responds smoothly to control inputs. If the chute movement is erratic or unresponsive, refer to the troubleshooting section.

7. MAINTENANCE

Regular maintenance helps prolong the life of your chute motor and snowblower. Perform the following checks periodically:

- **Visual Inspection:** Regularly inspect the motor and its wiring for any signs of wear, corrosion, or damage.
- **Electrical Connections:** Ensure all electrical connections are clean, tight, and free from moisture.
- **Lubrication:** Consult your snowblower's manual for any recommended lubrication points for the chute mechanism. The motor itself is typically sealed and does not require user lubrication.
- **Cleaning:** Keep the motor and surrounding area free from snow, ice, and debris.

8. TROUBLESHOOTING

If you encounter issues with your Stens Snowblower Chute Motor, consider the following common problems and solutions:

Problem	Possible Cause	Solution
Chute motor does not operate.	No power, loose wiring, faulty switch, motor failure.	Check power supply to snowblower. Inspect all electrical connections for tightness. Test the control switch. If power and connections are good, the motor may need replacement.
Chute moves slowly or erratically.	Low voltage, obstruction in chute mechanism, worn gears.	Ensure snowblower battery (if applicable) is charged. Clear any snow or ice obstructing the chute. Inspect motor gears for wear.
Motor makes unusual noises.	Internal damage, worn gears, foreign object.	Discontinue use immediately. Inspect for foreign objects. If noise persists, the motor may be failing and require replacement.

For issues not listed here or if solutions do not resolve the problem, contact a qualified service professional.

9. SPECIFICATIONS

Feature	Detail
Brand	Stens
Model Number	780-050
Item Weight	2.1 Pounds
Product Dimensions	7.1 x 4.4 x 3.2 inches

Feature	Detail
Color	Black
Power Source	Manual (refers to snowblower type, motor is electric)
Engine Type	4 Cycle (refers to snowblower type)
UPC	023899550500

10. WARRANTY AND SUPPORT

For information regarding warranty coverage for your Stens Snowblower Chute Motor 780-050, please refer to the documentation provided with your purchase or visit the official Stens website. For technical support or assistance with parts, contact Stens customer service directly.

Stens Customer Service: Please refer to the contact information available on the official Stens website or your product packaging.

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