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Briggs & Stratton 1687806

Briggs & Stratton 1687806 Scraper & Flights Kit Instruction Manual

Genuine OEM Replacement Parts for Snowblowers

1. Product Overview

This manual provides essential information for the installation, operation, and maintenance of the Briggs & Stratton 1687806 Scraper & Flights Kit. This kit contains genuine Original Equipment Manufacturer (OEM) authorized parts designed for various Briggs & Stratton snowblower models.
The 1687806 kit is a direct replacement part, ensuring compatibility and performance equivalent to the original components. It is manufactured in the United States.

Kit Components:

- Scraper Blade
- Auger Flights (Paddles)
- Necessary Fasteners (bolts, nuts)



Figure 1: Briggs & Stratton 1687806 Scraper & Flights Kit in its original packaging.



Figure 2: The scraper blade and auger flights included in the 1687806 kit.

2. Installation Instructions

Before beginning installation, ensure the snowblower is turned off, the spark plug wire is disconnected, and the engine is cool to prevent accidental starting or burns. Always wear appropriate safety gear, including gloves and eye protection.

Tools Required:

- Wrench set (appropriate sizes for existing and new fasteners)
- Torx bit set (if applicable to your snowblower model)
- Pliers (for holding nuts)
- Penetrating oil (e.g., WD-40) for rusted bolts
- Wire brush (for cleaning mounting surfaces)

Installation Steps:

1. **Prepare the Snowblower:** Disconnect the spark plug wire. Position the snowblower on a stable, level surface.
2. **Access the Auger Housing:** Depending on your model, you may need to tilt the snowblower or remove covers to gain full access to the auger housing.
3. **Remove Old Scraper Blade:** Locate the bolts securing the old scraper blade to the bottom of the auger housing. Apply penetrating oil to rusted bolts and allow it to soak. Carefully remove the bolts and the old scraper blade.

4. **Clean Mounting Area:** Use a wire brush to clean any rust, debris, or old gasket material from the scraper blade mounting surface.
5. **Install New Scraper Blade:** Position the new scraper blade (part of the 1687806 kit) onto the mounting surface. Align the bolt holes. Secure it with the new fasteners provided in the kit. Tighten bolts evenly, but do not overtighten.
6. **Remove Old Auger Flights (Paddles):** Identify the bolts or pins securing the worn auger flights to the auger shaft. Apply penetrating oil if necessary. Remove the fasteners and carefully slide off the old flights. Note the orientation of the flights for correct installation of the new ones.
7. **Install New Auger Flights:** Slide the new auger flights (paddles) from the 1687806 kit onto the auger shaft, ensuring they are oriented correctly. Secure them with the new fasteners provided. Ensure all fasteners are tight.
8. **Inspect and Reassemble:** Double-check all newly installed parts and fasteners for tightness. Ensure there is no interference with moving parts. Reattach any covers or components that were removed.
9. **Reconnect Spark Plug:** Reconnect the spark plug wire.

Note: If you encounter excessively rusted or stripped bolts, exercise caution. It may be necessary to use specialized tools or seek professional assistance for removal.

3. Operation with New Parts

The scraper blade and auger flights are critical components for effective snow removal. Once installed, they work together to clear snow from surfaces.

- **Scraper Blade Function:** The scraper blade is located at the bottom of the auger housing. Its primary function is to scrape snow and ice from the ground surface, directing it into the auger. A properly installed scraper blade ensures maximum snow removal efficiency and protects the auger housing from wear.
- **Auger Flights Function:** The auger flights (paddles) rotate to scoop up the snow and propel it towards the discharge chute. Worn flights reduce the snowblower's ability to throw snow effectively, leading to incomplete clearing and increased effort.

After installation, perform a test run in a clear area (without snow) to ensure all components rotate freely and without obstruction. When operating in snow, observe the snowblower's performance. If snow is not being cleared efficiently or thrown far enough, re-check the installation of the flights and scraper blade.

4. Maintenance and Care

Regular inspection and maintenance of your scraper blade and auger flights will extend the life of your snowblower and ensure optimal performance.

Inspection Schedule:

- **Before Each Use:** Visually inspect the scraper blade and auger flights for obvious damage, excessive wear, or loose fasteners.
- **After Each Use:** Clean any accumulated snow, ice, or debris from the auger housing, scraper blade, and flights. This prevents freezing and corrosion.
- **Seasonally (or every 25 operating hours):** Conduct a thorough inspection for wear.

Checking for Wear:

- **Scraper Blade:** The scraper blade has a wear line. When the blade wears down to this line, or if it becomes significantly chipped or bent, it should be replaced to maintain effective snow removal and protect the auger housing.

- **Auger Flights:** Inspect the rubber or composite material of the flights. If they are significantly worn down, cracked, or torn, their ability to scoop and throw snow will be compromised. Replace them if they show signs of excessive wear.

Note: The lifespan of these parts can vary significantly based on usage frequency, snow conditions, and the type of surface being cleared. Operating on gravel or uneven surfaces will accelerate wear.

5. Troubleshooting Common Issues

If your snowblower is not performing as expected after replacing the scraper and flights, consider the following:

Symptom	Possible Cause	Solution
Snowblower not clearing snow effectively or leaving a layer of snow.	Scraper blade not making proper contact with the ground; flights worn or incorrectly installed.	Inspect scraper blade for proper height adjustment (if applicable) and wear. Verify auger flights are installed correctly and are not excessively worn.
Snowblower not throwing snow far enough.	Auger flights are worn or damaged, reducing their ability to propel snow.	Inspect auger flights for wear. If significantly worn, replacement is necessary. Ensure engine RPM is correct.
Unusual noises or vibrations from the auger housing.	Loose fasteners on scraper blade or flights; foreign object in auger housing; damaged auger shaft.	Immediately shut off the snowblower. Inspect for loose fasteners and tighten. Check for and remove any foreign objects. If noise persists, consult a qualified technician.
Scraper blade or flights wear out quickly.	Frequent use on abrasive surfaces (gravel, uneven pavement); incorrect installation.	Ensure proper operating technique. Avoid contact with abrasive surfaces where possible. Verify correct installation. Consider adjusting skid shoes if present.

6. Product Specifications

Attribute	Detail
Part Number	1687806
Manufacturer	Briggs and Stratton
Product Dimensions	16.37 x 21.37 x 5.5 inches
Item Weight	1 pounds
Material	OEM authorized materials (rubber/composite flights, metal scraper)
Country of Manufacture	United States

7. Warranty Information

For specific warranty details regarding the Briggs & Stratton 1687806 Scraper & Flights Kit, please refer to the official warranty documentation provided with your original snowblower purchase or visit the official Briggs & Stratton website. Warranty terms typically cover manufacturing defects and material flaws under normal use conditions.
Keep your purchase receipt as proof of purchase for any warranty claims.

8. Customer Support

If you require further assistance with installation, troubleshooting, or have questions about your Briggs & Stratton 1687806 Scraper & Flights Kit, please contact Briggs & Stratton customer support:

- **Official Website:** Visit the Briggs & Stratton official website for support resources, FAQs, and contact information.
- **Authorized Service Centers:** Locate an authorized Briggs & Stratton service center near you for professional assistance.

When contacting support, please have your snowblower's model and serial numbers, as well as the part number (1687806) of this kit, readily available.

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