

BILT HARD 24-inch

BILT HARD 2 Stage Gas Snow Blower 24-inch User Manual

MODEL: 24-INCH

Efficient Snow Removal for Driveways and Walkways

1. Safety Guidelines

Always prioritize safety when operating the BILT HARD 2 Stage Gas Snow Blower. Read and understand all instructions before use.

- Always wear protective eyewear and gloves when operating this snow blower.
- Do not touch the rotating parts. Keep hands and feet away from the intake area.
- Ensure proper ventilation when using a gasoline-powered model.
- Store fuel in a cool, well-ventilated area away from heat sources.
- Keep bystanders, children, and pets at a safe distance from the operating area.
- Never operate the snow blower under the influence of alcohol or medication.

2. Product Overview

The BILT HARD 2 Stage Gas Snow Blower is designed for efficient and powerful snow removal. Key features include:

- **Efficient Snow Removal:** Clears a path 24 inches wide and 20.5 inches deep, throwing snow up to 40 feet away.
- **Night-Use Capable:** Equipped with an integrated LED headlight for nighttime operation.
- **Powerful & Durable Engine:** Features a 209cc, 7hp 4-cycle engine running at 3600 rpm for heavy snow conditions.
- **Sturdy Two-Stage Auger:** 10-inch serrated steel auger effectively cuts through deep snow.
- **Exceptional Traction:** 13" x 4.1" flat-free tires provide superior grip on various surfaces.

2-Stage Steel Auger Shreds Thick Snow



Figure 2.1: Front view of the BILT HARD 2 Stage Gas Snow Blower.

Clearing Capability

24"

Width

20.5"

Depth

40FT

Throw Distance

- ▶ **209cc 7HP 4-Cycle Snow Engine**
- ▶ **3600 RPM**



Figure 2.2: Clearing capabilities and dimensions of the snow blower.

Night Vision

Have a brighter and broader view with the panoramic LED lighting.



Figure 2.3: Integrated LED headlight for enhanced visibility during night use.

3. Setup and Assembly

Follow these steps to assemble your BILT HARD 2 Stage Gas Snow Blower:

Video 3.1: Detailed installation guide for the 2 Stage Gas Snow Blower. This video covers removing bolts, installing handles, securing cables, attaching the chute, and installing skid plates and wheels.

1. **Prepare the Engine:** Remove the 3 M6 bolts pre-installed in the recoil start housing. Use these bolts to secure the recoil starter to the housing.
2. **Install Lower Handle:** Use a tire to raise the machine body. Remove the bolts on both sides of the case. Install the lower handle, securing it with two bolts on the right and one bolt on the left.
3. **Attach Upper Handle:** Remove 3 lock bolts and nuts from the lower handle. Install the upper handle onto the lower handle and secure it with the previously removed bolts and nuts.
4. **Mount Cleaning Tool:** Install the cleaning tool onto the upper handle.
5. **Connect Control Levers:** Cut the strips on the control levers to free the shift plate. Install the drive control rod into the hole on the shift plate and turn the rod up to secure. Install the other end of the rod into the hole on the drive speed control lever and secure it.

6. **Assemble Chute:** Remove the rotator disk and bolts from the chute assembly. Attach the rotator disk and the chute deflector onto the chute base. Secure the rotator disk with the previously removed bolts. Attach the rear end of the chute rotator to the handle and the front end of the chute rotator.
7. **Secure Cables:** Secure the cables with the clips on the handle.
8. **Install Skid Plate:** Install the skid plate into the 2 holes on each side of the auger housing.
9. **Attach Wheels:** Install the wheels on the axle under the engine and secure with pins.

4. Operating Instructions

Familiarize yourself with the controls and starting procedures before operating the snow blower.

4.1 Starting the Engine

The snow blower offers both recoil (pull-start) and electric start options.

1. **Add Oil and Fuel:** Add SAE 5W-30 or SAE 0W-30 engine oil and unleaded gasoline.
2. **Set Drive Speed:** Put the drive-speed control lever in the F1 position.
3. **Turn On/Off Key:** Push in the on/off key to the ON position.
4. **Turn Fuel Switch:** Turn the fuel switch to the ON position.
5. **Set Choke:** Turn the choke to the Choke position.
6. **Prime Engine:** Push the primer 3-5 times.
7. **Start:** Use either the recoil start handle or the electric start button.
8. **Warm Up:** After warming the engine for 1 minute at idling speed, turn the choke to the OPEN/ON position.

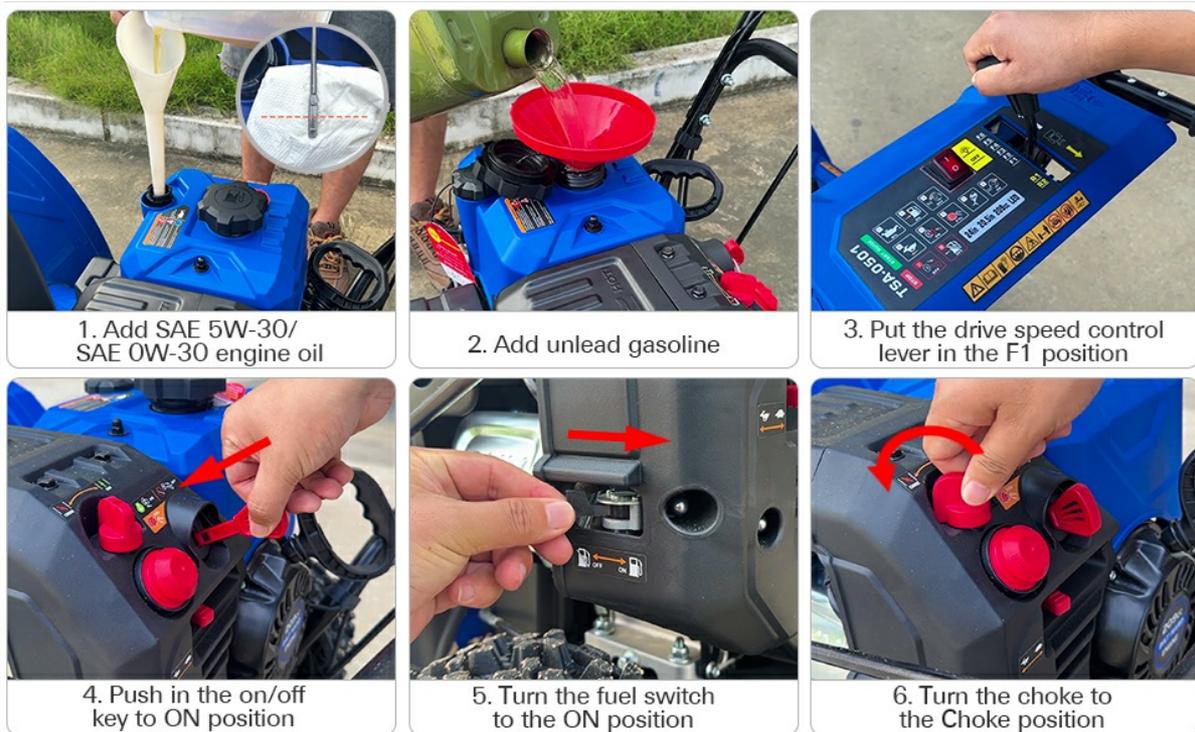


Figure 4.1: Visual guide for the engine starting procedure.

Recoil handle Start and One Button Electric Start



Figure 4.2: Engine controls for starting and operation.

4.2 Controls

The control panel provides access to all operational functions:

- **Left Handle:** Pinch down to control the rotation of the steel augers.
- **Right Handle:** Pinch down to engage wheel drive.
- **Work Light Switch:** Activates the integrated LED headlight.
- **Gear Lever:** Selects forward (F1-F6) or reverse (R1-R2) gears.
- **Chute Control:** Adjusts the direction and distance of snow discharge.

Operation Panel

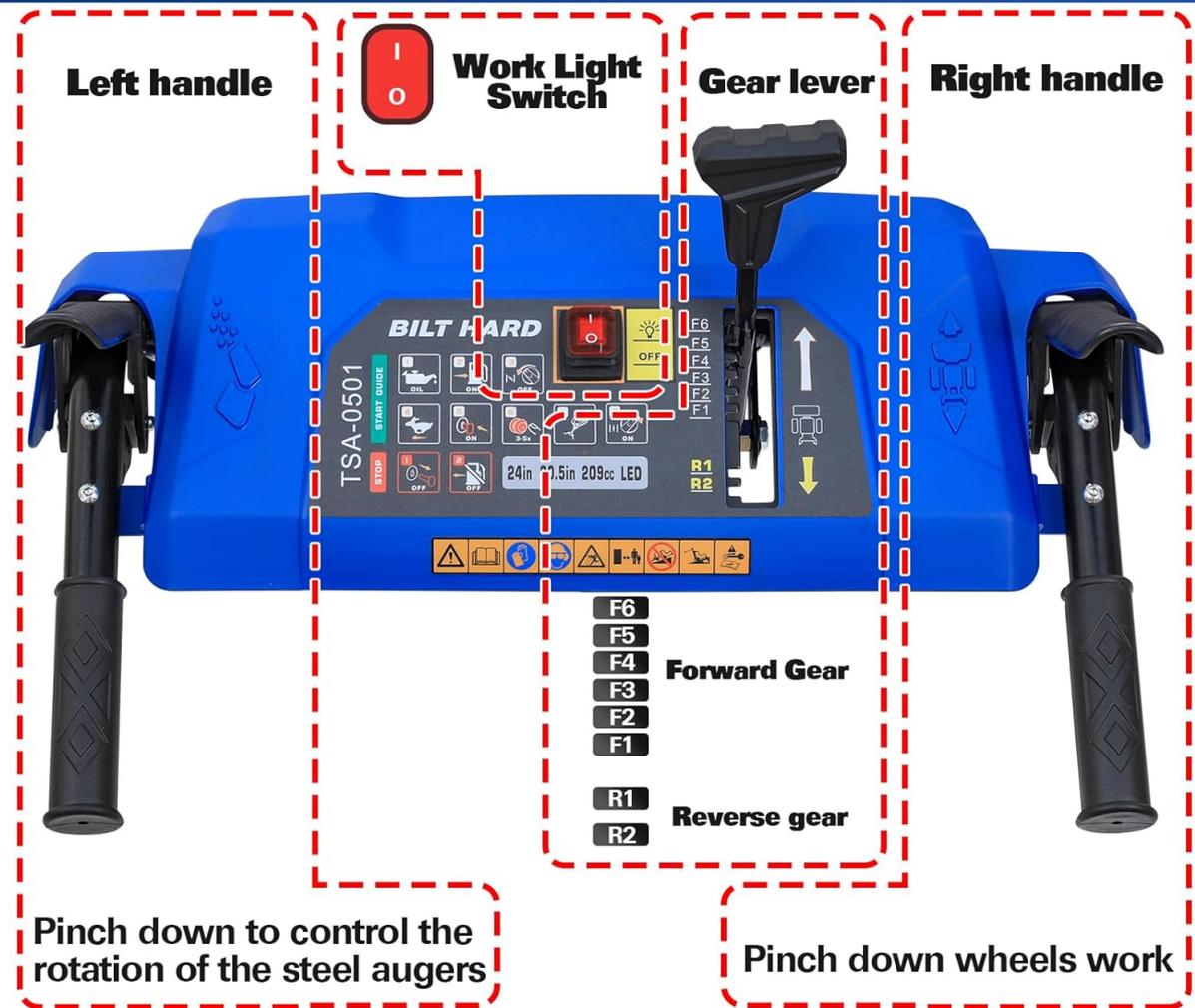


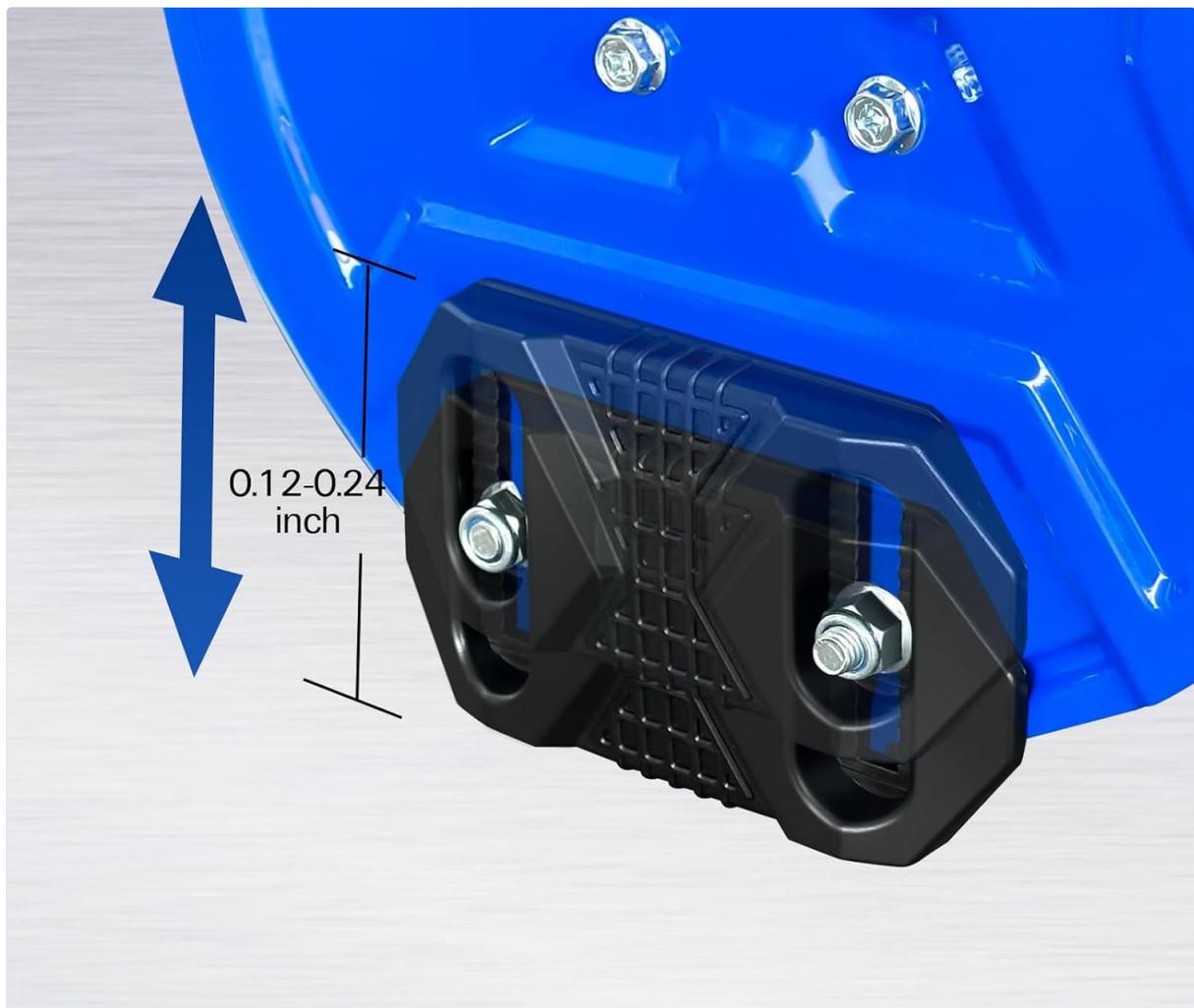
Figure 4.3: Overview of the snow blower operation panel.

Video 4.1: Demonstration of the 2 Stage Gas Snow Blower in operation, highlighting its clearing and throwing capabilities.

5. Maintenance

Regular maintenance ensures optimal performance and longevity of your snow blower.

- **Engine Maintenance:** Regularly check and change engine oil as per the engine manual. Inspect and clean or replace the spark plug annually.
- **Fuel System:** Use fresh, stabilized gasoline. Drain fuel at the end of the season or use a fuel stabilizer.
- **Auger and Chute:** After each use, clear any snow or ice from the auger and chute using the provided cleaning tool. Inspect the auger for damage.
- **Skid Plates:** Check the wear on the skid plates. Adjust or replace them as needed to maintain proper clearing height.
- **Tires:** Ensure tires are properly inflated (if applicable) and inspect for wear or damage.
- **Storage:** Store the snow blower in a clean, dry area when not in use.



Distance between bottom of stirrer shell and ground

Figure 5.1: Adjusting the distance between the auger housing and the ground using the skid plates.

6. Troubleshooting

If you encounter issues with your snow blower, refer to these common troubleshooting tips:

- **Engine Won't Start:** Check fuel level, ensure fuel valve is open, choke is set correctly, spark plug is clean, and electric start cord is connected (if using electric start).
- **Snow Not Clearing Effectively:** Inspect the auger for obstructions or damage. Ensure skid plates are adjusted to the appropriate height for the surface.
- **Snow Blower Not Moving:** Check the drive engagement lever and ensure it is fully engaged. Inspect drive belts for wear or breakage.
- **Unusual Noises:** Immediately shut off the engine and inspect for loose parts, obstructions, or damaged components.

For persistent issues, contact customer support.

7. Technical Specifications

Specification	Value
Brand	BILT HARD
Power Source	Gas Powered
Product Dimensions	24"D x 24"W x 43"H
Engine Type	4 Cycle
Engine Displacement	209 Cubic Centimeters
Wheel Size	13 Inches
Ideal Snow Depth	20.5 Inches
Clearing Width	24 Inches
Item Weight	141.9 pounds

8. Warranty and Support

BILT HARD is committed to providing reliable products and excellent customer service. For any inquiries, please do not hesitate to reach out to us directly. Our support team is always available to address any questions or concerns, ensuring you have peace of mind.