



Manuals.plus /

› MTD /

› MTD Optima PS 700 Sweeper Instruction Manual (Model 24B-812C678)

## MTD 24B-812C678

# MTD Optima PS 700 Sweeper Instruction Manual

Model: 24B-812C678

## INTRODUCTION

---

This manual provides detailed instructions for the safe and efficient operation, setup, and maintenance of your MTD Optima PS 700 Sweeper, model 24B-812C678. Designed for versatile use, this powerful machine is equipped with a reliable MTD ThorX engine and a stable swivel wheel, making it suitable for various cleaning tasks, including debris removal and snow clearing in winter conditions. Please read this manual thoroughly before operating the machine to ensure proper use and longevity.

## SAFETY INFORMATION

---

**WARNING: Failure to follow these safety instructions could result in serious injury or death.**

- Always read and understand the entire instruction manual before operating the sweeper.
- Wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, and sturdy footwear.
- Keep bystanders, children, and pets at a safe distance from the operating area.
- Ensure the work area is clear of obstacles and debris that could be thrown by the brush.
- Handle fuel with extreme care. Store fuel in approved containers and refuel in a well-ventilated area with the engine off and cool.
- Never operate the machine indoors or in poorly ventilated areas due to carbon monoxide fumes.
- Before performing any maintenance or adjustments, always turn off the engine and disconnect the spark plug wire to prevent accidental starting.
- Be aware of hot surfaces, especially the engine and muffler, which can cause burns.
- Do not modify the machine in any way. Use only genuine MTD replacement parts.

## SETUP

---

Proper setup ensures optimal performance and safety of your MTD Optima PS 700 Sweeper.

## 1. Unpacking and Assembly

Carefully remove all components from the packaging. Assemble the handle system according to the diagrams provided in the separate assembly guide. Ensure all bolts and fasteners are securely tightened.



Image: The MTD Optima PS 700 Sweeper main unit, ready for assembly or initial use.

## 2. Engine Preparation

Your MTD ThorX engine requires oil and fuel before its first use. Refer to the engine manual for specific oil type and capacity. Fill the fuel tank with fresh, unleaded gasoline (E10 compatible) as specified by the engine manufacturer. Do not overfill.

## 3. Brush Height Adjustment

The sweeper features a stable swivel wheel and a unique brush lift function for reversing. Adjust the brush height to suit the surface and type of debris. For general sweeping, the brush should lightly contact the surface. For snow removal, a slightly higher setting might be appropriate to prevent excessive drag.

## 4. Attaching Optional Accessories

The Optima PS 700 is compatible with optional accessories such as a collection container (Part No.: 196-067-000, 47-liter volume) or a snow blade. Attach these accessories securely following their respective instruction manuals.



Image: The MTD Optima PS 700 Sweeper shown with its optional snow blade and collection box attachments.

## OPERATING INSTRUCTIONS

---

Follow these steps for safe and effective operation of your sweeper.

### 1. Starting the Engine

1. Ensure the fuel tank is filled and the oil level is correct.
2. Move the choke lever to the 'CHOKE' position (for cold starts).
3. Press the primer bulb 3-5 times until fuel is visible in the bulb.
4. Pull the starter rope firmly until the engine starts.
5. Once the engine runs smoothly, gradually move the choke lever to the 'RUN' position.

### 2. Engaging the Brush

Once the engine is running, engage the brush lever to start the sweeping action. The brush will begin to rotate, clearing debris from the path.

### 3. Sweeping Operation

Guide the sweeper forward at a comfortable pace. The stable swivel wheel allows for easy maneuvering. For optimal cleaning, overlap each pass slightly. The machine is versatile and can be used for various tasks, including clearing leaves, dirt, gravel, and even light snow.



Image: The MTD Optima PS 700 Sweeper being operated on a paved garden path, demonstrating its use in a landscaped environment.

#### **4. Brush Lift Function (Reverse)**

When backing up, utilize the unique brush lift function to raise the brush off the ground. This prevents unnecessary wear on the brush and makes maneuvering easier.

#### **5. Shutting Down**

To stop the engine, move the throttle lever to the 'STOP' position or turn the ignition key (if equipped) to 'OFF'. Allow the engine to cool before storage.

## **MAINTENANCE**

---

Regular maintenance is crucial for the longevity and performance of your MTD Optima PS 700 Sweeper.

### **1. After Each Use**

- Clean the exterior of the machine, removing any accumulated dirt, debris, or snow.
- Inspect the brush for wear and damage.
- Check for any loose fasteners and tighten as necessary.

### **2. Engine Maintenance**

Refer to the MTD ThorX engine manual for detailed maintenance schedules. Key tasks typically include:

- **Oil Change:** Change engine oil after the first 5 operating hours, then every 25-50 hours or annually.
- **Air Filter:** Clean or replace the air filter regularly, especially in dusty conditions.
- **Spark Plug:** Inspect and clean the spark plug annually. Replace if worn or fouled.
- **Fuel System:** Drain fuel for long-term storage or use a fuel stabilizer.

### 3. Brush Maintenance

Periodically inspect the sweeping brush for wear. Worn brushes will reduce sweeping effectiveness and may need replacement. Consult your dealer for genuine MTD replacement brushes.

### 4. General Lubrication

Lubricate moving parts and pivot points as indicated in the manual to ensure smooth operation and prevent rust.



Image: A comprehensive view of the MTD Optima PS 700 Sweeper, useful for identifying components during maintenance.

## TROUBLESHOOTING

This section addresses common issues you might encounter with your MTD Optima PS 700 Sweeper.

Problem	Possible Cause	Solution
Engine does not start	No fuel, old fuel, incorrect choke setting, fouled spark plug, low oil.	Check fuel level and freshness. Adjust choke. Clean/replace spark plug. Check oil level.
Poor sweeping performance	Worn brush, incorrect brush height, excessive speed.	Inspect brush for wear and replace if necessary. Adjust brush height. Reduce operating speed.
Unusual noise or vibration	Loose fasteners, damaged components, foreign object in brush.	Stop engine immediately. Inspect for loose parts and tighten. Remove any obstructions. If issue persists, contact service.
Recoil spring issue (as reported by some users)	Manufacturing defect or wear.	Contact MTD service for replacement parts or professional repair.
Weld seam failure on direction change lever (as reported by some users)	Stress or manufacturing issue.	This requires professional welding repair. Contact MTD service.

## SPECIFICATIONS

Feature	Detail
Manufacturer	MTD
Part Number	24B-812C678
Product Dimensions	76 x 130 x 79 cm
Item Model Number	24B-812C678
Discontinued by Manufacturer	No
Number of Items in Package	1
Batteries Included?	No
Batteries Required?	No
Weight	92.8 Kilograms
ASIN	B00OQAXB74
First Available Date	January 15, 2020

## WARRANTY INFORMATION

---

MTD products are typically covered by a manufacturer's warranty. Please refer to the warranty card included with your product or contact MTD customer service for specific details regarding coverage and duration. Keep your proof of purchase for all warranty claims.

## CUSTOMER SUPPORT

---

For technical assistance, spare parts, or service inquiries, please contact MTD customer support. Visit the official MTD website for up-to-date contact information and to locate authorized service centers in your area. When contacting support, please have your model number (24B-812C678) and serial number ready.