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## MTD 11A-02MK600

# MTD SMART 51 BO Gasoline Lawn Mower User Manual

Model: 11A-02MK600 | Brand: MTD

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your MTD SMART 51 BO gasoline lawn mower. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent injury or damage.

The MTD SMART series gasoline lawn mowers are designed for easy handling, proven reliability, and robust performance, ideal for medium-sized lawn areas. This model features a powerful MTD ThorX OHV-EVO1 engine, ensuring effortless and reliable work.

## 2. SAFETY INFORMATION

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Always prioritize safety when operating the lawn mower. Failure to follow safety instructions can result in serious injury or property damage.

- **Read the Manual:** Familiarize yourself with all controls and proper use.
- **Personal Protective Equipment:** Always wear sturdy footwear, long trousers, and eye protection. Ear protection is recommended.
- **Clear the Area:** Before mowing, clear the area of stones, sticks, wires, and other debris that could be thrown by the blades.
- **Keep Bystanders Away:** Do not allow children or pets near the mower while it is operating.
- **Fuel Handling:** Refuel outdoors in a well-ventilated area with the engine off and cool. Do not smoke while refueling.
- **Slope Operation:** Mow across the face of slopes, never up and down. Exercise extreme caution when changing direction on slopes.
- **Blade Safety:** Never place hands or feet near rotating parts. Disconnect the spark plug wire before performing any maintenance or clearing blockages.
- **Engine Off:** Always turn off the engine and wait for all moving parts to stop before leaving the mower, clearing blockages, or making adjustments.

### 3. PRODUCT OVERVIEW

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The MTD SMART 51 BO is a robust gasoline lawn mower designed for efficient lawn care. Key components include the engine, cutting deck, wheels, and handle assembly.



Figure 3.1: Front-side view of the MTD SMART 51 BO Gasoline Lawn Mower. This image shows the red cutting deck, the black engine on top, and the black handle assembly extending upwards and backwards.



Figure 3.2: Rear-side view of the MTD SMART 51 BO Gasoline Lawn Mower. This image highlights the rear wheels, the engine, and the handle with control levers.

### Key Features:

- **Engine:** MTD ThorX 35, 2.2 kW, 2800 min<sup>-1</sup>, 132 cm<sup>3</sup>, pull start.
- **Area Performance:** Up to 1000 m<sup>2</sup> recommended.
- **Cutting Width:** 51 cm.
- **Wheels:** 180 mm / 180 mm, plain bearings.
- **Deck:** Steel deck with side deflector.
- **Cutting Height Adjustment:** 35–55 mm, 3 positions, individual adjustment.

## 4. SETUP AND ASSEMBLY

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Before first use, some assembly and preparation are required.

1. **Unpacking:** Carefully remove all components from the packaging. Check for any damage during transit.
2. **Handle Assembly:** Attach the upper handle to the lower handle using the provided bolts and knobs. Ensure the cables are not pinched.

3. **Handle Position:** Adjust the handle to a comfortable operating height and secure it.
4. **Add Engine Oil:** The engine is shipped without oil. Fill the engine with the recommended type and amount of oil (refer to the engine manual for specifics, typically SAE 30 or 10W-30). Do not overfill.
5. **Add Fuel:** Fill the fuel tank with fresh, unleaded gasoline. Do not use E85 or other ethanol blends not approved for small engines. Do not fill the tank completely; leave space for expansion.
6. **Check Spark Plug:** Ensure the spark plug wire is securely connected to the spark plug.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Starting the Engine

1. **Check Oil and Fuel:** Ensure oil and fuel levels are adequate.
2. **Prime (if applicable):** If your model has a primer bulb, press it 3-5 times until fuel is visible.
3. **Choke:** Move the choke lever to the "CHOKE" or "START" position (cold engine). For a warm engine, set to "RUN".
4. **Blade Control Lever:** Hold the blade control lever (bail bar) against the handle. The engine will not start unless this lever is held.
5. **Pull Starter Cord:** Pull the starter cord with a rapid, continuous motion. Do not let the cord snap back; guide it gently.
6. **Adjust Choke:** Once the engine starts, gradually move the choke lever to the "RUN" position as the engine warms up.

### 5.2. Mowing

- **Adjust Cutting Height:** Set the desired cutting height using the individual wheel height adjusters. For best results, do not remove more than one-third of the grass blade length at a time.
- **Mowing Pattern:** Mow in overlapping rows. For a striped effect, mow in straight lines.
- **Discharge:** The SMART 51 BO features a side deflector for grass discharge. Ensure the deflector is properly installed.
- **Avoid Overloading:** Do not attempt to mow excessively tall or wet grass, as this can strain the engine and lead to poor cutting performance.

### 5.3. Stopping the Engine

To stop the engine, simply release the blade control lever (bail bar). The engine will automatically shut off.

## 6. MAINTENANCE

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Regular maintenance ensures optimal performance and extends the life of your lawn mower. Always disconnect the spark plug wire before performing any maintenance.

### 6.1. After Each Use

- **Clean the Deck:** Remove grass clippings and debris from the underside of the cutting deck.
- **Inspect Blades:** Check the cutting blade for sharpness and damage. Sharpen or replace as needed.
- **Check for Loose Parts:** Ensure all nuts, bolts, and screws are tight.

### 6.2. Seasonal Maintenance (or every 25 operating hours)

- **Change Engine Oil:** Drain old oil and refill with fresh engine oil.
- **Clean/Replace Air Filter:** A dirty air filter can reduce engine performance. Clean or replace as per engine

manual.

- **Inspect/Replace Spark Plug:** Check the spark plug for wear and proper gap. Replace if necessary.
- **Fuel System:** If storing for an extended period, drain the fuel tank or use a fuel stabilizer.

## 7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Engine will not start	No fuel; Old fuel; Spark plug wire loose; Dirty spark plug; No oil; Blade control lever not held.	Add fresh fuel; Drain old fuel and refill; Connect spark plug wire; Clean/replace spark plug; Add oil; Hold blade control lever firmly.
Engine runs rough or stalls	Dirty air filter; Stale fuel; Clogged fuel line; Dirty spark plug.	Clean/replace air filter; Drain and refill with fresh fuel; Clean fuel line; Clean/replace spark plug.
Uneven cut	Dull or bent blade; Uneven wheel height adjustment; Excessive grass height.	Sharpen or replace blade; Adjust all wheels to the same height setting; Mow more frequently or raise cutting height.
Excessive vibration	Bent or unbalanced blade; Loose engine mounting bolts.	Inspect and replace blade if bent; Tighten all mounting bolts.

## 8. SPECIFICATIONS

Feature	Detail
Model Number	11A-02MK600
Engine	MTD ThorX 35, 2.2 kW, 2800 min-1, 132 cm <sup>3</sup>
Starting Method	Pull Start
Cutting Width	51 cm
Cutting Height Adjustment	35-55 mm, 3 positions, individual
Deck Material	Steel
Wheels	180 mm / 180 mm, plain bearings
Recommended Area Performance	1000 m <sup>2</sup>
Product Dimensions (L x W x H)	71.5 x 55 x 33 cm
Item Weight	19.92 kg
Material Type	Alloy Steel
Power Source	Gasoline Powered
Color	Red

## 9. WARRANTY AND SUPPORT

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Specific warranty information is typically provided with your product purchase documentation. Please refer to the warranty card or contact MTD customer service for details regarding warranty coverage and claims.

For technical support, spare parts, or service inquiries, please contact your authorized MTD dealer or visit the official MTD website. Keep your model number (11A-02MK600) and serial number ready when contacting support.

You can visit the MTD store on Amazon for more information:[MTD Store](#)