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› Murray EQ2-500 2nd Gen Self-Propelled Petrol Lawnmower User Manual

Murray EQ2-500

Murray EQ2-500 2nd Gen Self-Propelled Petrol Lawnmower User Manual

Model: EQ2-500 | Brand: Murray

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your Murray EQ2-500 2nd Gen self-propelled petrol lawnmower. Please read these instructions carefully before assembly, operation, or maintenance. Keep this manual for future reference.



Figure 1: Murray EQ2-500 2nd Gen Lawnmower. This image shows the complete lawnmower from a side angle, highlighting its overall design and components such as the engine, grass bag, and handle.

2. SAFETY INFORMATION

Always prioritize safety when operating power equipment. Failure to follow these safety guidelines can result in serious injury or property damage.

- **Read the Manual:** Familiarize yourself with all controls and safety decals before operating the lawnmower.
- **Personal Protective Equipment (PPE):** Always wear appropriate eye protection, hearing protection, sturdy footwear, and long trousers. Do not operate barefoot or in open-toed sandals.
- **Clear the Area:** Before starting, clear the mowing area of objects such as rocks, toys, wires, or other debris that could be thrown by the blade.
- **Keep Bystanders Away:** Ensure children, pets, and other people are at a safe distance (at least 15 meters / 50 feet) from the operating area.
- **Fuel Handling:** Handle petrol with extreme care. It is highly flammable. Refuel outdoors, away from sparks or open

flames, and do not smoke while refueling. Allow the engine to cool before refueling.

- **Engine Shut-off:** Always turn off the engine and disconnect the spark plug wire before performing any adjustments, cleaning, or maintenance.
- **Slope Operation:** Exercise extreme caution when mowing on slopes. Mow across the face of slopes, never up and down. Avoid mowing excessively steep slopes.
- **Blade Safety:** Never place hands or feet near rotating parts. The blade continues to rotate for a short period after the engine is shut off.
- **Maintenance:** Regularly inspect the lawnmower for damage, loose parts, or wear. Replace worn or damaged parts with genuine Murray or Briggs & Stratton components.

3. PRODUCT OVERVIEW AND FEATURES

The Murray EQ2-500 2nd Gen is a self-propelled petrol lawnmower designed for small to medium-sized lawns. It features a robust Briggs & Stratton engine and versatile cutting options.

- **Engine:** Powered by a reliable Briggs & Stratton 500E Series 140cc engine, delivering 6.78 Nm of torque and a nominal power of 2.03 kW at 2900 rpm.
- **Cutting Width:** 46 cm (18 inches) for efficient coverage.
- **Cutting Height Adjustment:** Centralized 6-level adjustment from 25 mm to 75 mm.
- **4-in-1 Functionality:** Offers grass collection, mulching, rear discharge, and side discharge options.
- **Grass Collector:** Large 50-liter grass bag with a dust shield and fill level indicator.
- **Durable Construction:** Features a reinforced steel deck for enhanced protection and longevity.
- **Easy Cleaning:** Equipped with an integrated wash port for convenient deck cleaning.

Cutting width
46 cm



Engine
capacity

140 cc

Max
torque

7,3 Nm

Nominal
power

2,03 kW

Grass
basket

50 l

Figure 2: Key specifications of the Murray EQ2-500 lawnmower, including 46 cm cutting width, 140 cc engine capacity, 7.3 Nm max torque, 2.03 kW nominal power, and 50 L grass basket.

6-step central cutting height adjustment



Briggs & Stratton
engine



Self-propelled

Housing
cleaning system

Reinforced
and steel casing

Figure 3: Features of the Murray EQ2-500 lawnmower, including 6-step central cutting height adjustment, self-propelled drive, housing cleaning system, reinforced steel casing, and Briggs & Stratton engine.

4. SETUP AND ASSEMBLY

Your lawnmower requires some assembly and preparation before its first use.

4.1 Unpacking

- Carefully remove all components from the packaging.
- Check for any damage during transit. Contact your dealer immediately if any parts are damaged or missing.
- Retain packaging materials until you are satisfied with the product.

4.2 Handlebar Assembly

- Unfold the handlebar assembly and secure it in the operating position using the provided knobs or levers. Ensure all cables are routed correctly and not pinched.



Figure 4: Handlebar assembly. This image shows the upper part of the lawnmower handle, illustrating how it connects to the main body and the control levers.

4.3 Adding Engine Oil

The engine is shipped without oil. You must add oil before the first start.

1. Place the lawnmower on a level surface.
2. Locate the oil fill cap/dipstick on the engine.
3. Remove the cap and slowly pour **0.47 liters of SAE30 4-stroke engine oil** into the oil fill opening. Do not overfill.
4. Check the oil level using the dipstick. It should be between the "Full" and "Add" marks.
5. Securely replace the oil fill cap.

Note: Engine oil is not included with the lawnmower and must be purchased separately.



Briggs & Stratton 500E Series engine 140 cc, gross torque: 7,3 Nm

Figure 5: Briggs & Stratton 500E Series engine. This close-up view highlights the engine, including the oil fill cap and other components, essential for maintenance and setup.

4.4 Adding Fuel

Use fresh, unleaded petrol with an octane rating of 87 or higher. Do not use E85 fuel.

1. Ensure the engine is off and cool.
2. Refuel outdoors in a well-ventilated area.
3. Remove the fuel cap and fill the tank, leaving some space for expansion. Do not overfill.
4. Securely replace the fuel cap.

5. OPERATING INSTRUCTIONS

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

5.1 Adjusting Cutting Height

The cutting height can be adjusted centrally to 6 different positions, from 25 mm to 75 mm.

- Ensure the engine is off.
- Locate the central height adjustment lever, typically near one of the rear wheels.
- Pull the lever outwards and move it to the desired height setting. Release the lever to lock it in place.
- Ensure all wheels are set to the same height for an even cut.



Figure 6: 6-step central cutting height adjustment. This image shows the lever used to adjust the cutting height from 25 mm to 75 mm, located near the rear wheel.

5.2 Starting the Engine

1. Ensure the spark plug wire is securely connected.
2. Push the primer bulb (if equipped) 3-5 times until fuel is visible.
3. Hold the operator presence control bar (safety bar) against the handle.
4. Pull the starter rope firmly and smoothly until the engine starts.
5. Once the engine is running, release the starter rope.



Figure 7: Handlebar control lever. This image shows the green lever on the handlebar, which is typically the operator presence control bar that must be held to allow the engine to run.

5.3 Engaging Self-Propelled Drive

To engage the self-propelled function, squeeze the drive control lever (usually a second lever on the handlebar) towards the main handle. Release the lever to disengage the drive.

5.4 Using 4-in-1 Functions

The EQ2-500 offers four cutting modes:

- **Grass Collection:** Attach the 50-liter grass bag to the rear discharge opening. The bag collects clippings for easy disposal. Monitor the fill level indicator.
- **Mulching:** Insert the mulching plug into the rear discharge opening. This recycles clippings back into the lawn as natural fertilizer.
- **Rear Discharge:** Remove the grass bag and mulching plug. Clippings are discharged from the rear of the mower.
- **Side Discharge:** Attach the side discharge chute to the side opening. This directs clippings away from the mower to

the side.



4-in-1: Rear Discharge / Collecting / Mulching / Side Discharge

Figure 8: 4-in-1 functionality. This image shows the lawnmower with the grass collection bag attached, demonstrating one of its versatile cutting modes.



Figure 9: Mulching or side discharge setup. This image shows the area where the mulching plug or side discharge chute would be installed, allowing for different grass disposal methods.

6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your lawnmower.

6.1 Cleaning the Mower Deck

The integrated wash port makes cleaning the underside of the deck easy.

1. After each use, ensure the engine is off and cool, and the spark plug wire is disconnected.
2. Connect a garden hose to the integrated wash port.
3. Turn on the water supply.
4. Start the engine and let it run for a few minutes to allow the rotating blade to clean the deck.
5. Turn off the engine, disconnect the spark plug wire, and turn off the water supply.



Easy to clean with the integrated wash port

Figure 10: Integrated wash port. This close-up shows the connection point for a garden hose, facilitating easy cleaning of the mower deck.

6.2 Engine Maintenance

- **Oil Change:** Change the engine oil after the first 5 hours of operation, then every 25 hours or annually, whichever comes first. Refer to the Briggs & Stratton engine manual for detailed instructions.
- **Air Filter:** Inspect and clean the air filter regularly, especially in dusty conditions. Replace if damaged or excessively dirty.
- **Spark Plug:** Inspect the spark plug annually. Clean or replace as needed.

6.3 Blade Maintenance

- **Inspection:** Regularly inspect the blade for sharpness and damage. A dull blade tears grass, leading to an unhealthy lawn.
- **Sharpening/Replacement:** Have the blade sharpened or replaced by a qualified service technician. Always use genuine replacement parts.



Figure 11: Underside of the mower. This view shows the cutting blade, which requires regular inspection and maintenance for optimal performance.

6.4 Storage

- For long-term storage, drain the fuel tank or add a fuel stabilizer.
- Clean the entire lawnmower thoroughly.
- Store in a dry, well-ventilated area, away from direct sunlight and extreme temperatures.
- The handlebar can be folded for compact storage.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with your lawnmower.

Problem	Possible Cause	Solution
Engine does not start	No fuel; old fuel; spark plug disconnected; clogged air filter; low oil level.	Add fresh fuel; connect spark plug wire; clean/replace air filter; check oil level and add if necessary.
Engine runs poorly or stalls	Clogged air filter; old fuel; dirty spark plug; carburetor issues.	Clean/replace air filter; use fresh fuel; clean/replace spark plug; consult a service technician for carburetor issues.
Uneven cut	Dull or bent blade; uneven cutting height adjustment; debris under deck.	Sharpen/replace blade; ensure all wheels are set to the same height; clean underside of deck.
Excessive vibration	Bent or unbalanced blade; loose engine mounting bolts.	Inspect and replace blade if bent; tighten engine mounting bolts; consult a service technician.
Self-propelled drive not engaging	Drive cable loose or damaged; belt worn or broken.	Inspect and adjust drive cable; replace worn belt; consult a service technician.

If you encounter problems not listed here or if solutions do not resolve the issue, contact an authorized service center.

8. SPECIFICATIONS

Feature	Specification
Model	EQ2-500
Engine	Briggs & Stratton 500E Series, 140cc
Max Torque	6.78 Nm
Nominal Power	2.03 kW at 2900 rpm
Cutting Width	46 cm (18 inches)
Cutting Height Adjustment	Centralized, 6 positions (25 mm - 75 mm)
Grass Bag Capacity	50 Liters
Functions	4-in-1 (Collection, Mulching, Rear Discharge, Side Discharge)
Deck Material	Alloy Steel
Weight	26.56 kg
Dimensions (L x W x H)	150 x 52 x 103 cm
Oil Requirement	0.47 Liters SAE30 4-stroke engine oil (not included)
Assembly Required	Yes

9. WARRANTY AND SUPPORT

Your Murray EQ2-500 2nd Gen lawnmower comes with a limited warranty and access to a support network.

- **Warranty:** A 2-year limited consumer warranty is provided. Please retain your proof of purchase.
- **Engine Parts Support:** For engine-specific spare parts and service, your Murray petrol lawnmower is supported by the extensive network of authorized Briggs & Stratton dealers.
- **Murray Specific Parts:** For Murray-specific spare parts, please consult an authorized Murray dealer.
- **Contact:** Refer to your purchase documentation or the manufacturer's website for contact information for authorized service centers.