

Omega 520

Omega 52cc MONTMELO 520 Gasoline Brush Cutter

USER MANUAL

Model: 520 | Brand: Omega

1. Introduction

Thank you for choosing the Omega 52cc MONTMELO 520 Gasoline Brush Cutter. This manual provides essential information for the safe assembly, operation, maintenance, and troubleshooting of your new tool. Please read this manual thoroughly before operating the brush cutter to ensure proper use and to prevent injury or damage. Keep this manual in a safe place for future reference.

The Omega MONTMELO 520 is a powerful 2-stroke, 52cc gasoline-powered brush cutter designed for efficient clearing of overgrown areas. It comes equipped with a professional harness, a line spool for trimming, and a 3-point blade for heavier brush.

2. Safety Instructions

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

- **Read the Manual:** Always read and understand the entire instruction manual before operating the brush cutter.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including a safety helmet with face shield, hearing protection, heavy-duty gloves, long pants, and sturdy, non-slip footwear.
- **Bystanders:** Keep all bystanders, children, and pets at least 15 meters (50 feet) away from the operating area.
- **Fuel Handling:** Handle gasoline with extreme care. It is highly flammable. Store fuel in approved containers, mix outdoors, and never refuel while the engine is running or hot.
- **Work Area:** Clear the work area of debris, rocks, and other objects that could be thrown by the cutting attachment.
- **Inspection:** Before each use, inspect the brush cutter for loose parts, damage, or wear. Ensure all guards and attachments are securely fastened.
- **Engine Safety:** Never operate the engine in an enclosed space. Exhaust fumes contain carbon monoxide,

which is a deadly gas.

- **Cutting Attachment:** Ensure the correct cutting attachment (line spool or 3-point blade) is installed for the task and is in good condition.

3. Assembly and Setup

The Omega MONTMELO 520 requires some assembly before first use. Refer to the image below for component identification.



Figure 1: Omega 52cc MONTMELO 520 Gasoline Brush Cutter components. This image displays the Omega 52cc MONTMELO 520 gasoline brush cutter disassembled, showing its main components. From left to right, you can see the line spool head, the protective guard, the 3-point metal blade, the professional harness (red and black), the long shaft, the handle assembly, and the engine unit.

3.1. Attaching the Shaft and Handle

1. Carefully connect the two sections of the shaft, ensuring they click securely into place.
2. Attach the handle assembly to the shaft at a comfortable operating position. Tighten all bolts firmly.

3.2. Installing the Guard

1. Slide the protective guard onto the lower shaft, positioning it above the cutting attachment.
2. Secure the guard with the provided screws or clamps. Ensure it is firmly attached and provides adequate protection.

3.3. Attaching the Cutting Tool (Line Spool or Blade)

1. **For Line Spool:** Align the line spool with the spindle and thread it on, turning clockwise until tight.
2. **For 3-Point Blade:** Place the blade onto the spindle, ensuring it sits correctly. Secure it with the washer and nut, tightening firmly with the provided tool. **Always ensure the blade is installed with the correct rotation direction.**

3.4. Adjusting the Harness

Put on the professional harness and adjust the straps so the brush cutter hangs comfortably at hip level when attached. This distributes the weight and reduces fatigue.

4. Operating Instructions

4.1. Fuel Mixing

The Omega MONTMELO 520 uses a 2-stroke engine and requires a mixture of unleaded gasoline and 2-stroke engine oil. Refer to the engine oil manufacturer's instructions for the correct mixing ratio (typically 25:1 or 50:1). Mix fuel in an approved container outdoors.

- Always use fresh, clean unleaded gasoline.
- Use high-quality 2-stroke engine oil specifically designed for air-cooled engines.
- Shake the fuel mixture thoroughly before pouring it into the fuel tank.

4.2. Starting the Engine

1. Place the brush cutter on a flat, stable surface.
2. Ensure the ignition switch is in the 'ON' position.
3. **Cold Start:** Engage the choke lever to the 'CLOSED' position. Press the primer bulb several times until fuel is visible. Pull the starter cord firmly until the engine briefly fires (usually 1-3 pulls).
4. Move the choke lever to the 'OPEN' or 'HALF-CHOKE' position. Pull the starter cord again until the engine starts.
5. Allow the engine to warm up for a few moments, then fully open the choke.
6. **Warm Start:** If the engine is already warm, the choke may not be necessary. Simply ensure the ignition is 'ON' and pull the starter cord.

4.3. Operating the Brush Cutter

- Hold the brush cutter firmly with both hands on the handle.
- Maintain a balanced stance and keep your feet apart.
- Use a sweeping motion, cutting from right to left for optimal efficiency with a line spool, or left to right with a blade to direct debris away from you.
- Avoid hitting hard objects like rocks or metal, as this can damage the cutting attachment or the machine.
- Do not over-rev the engine. Operate at a speed appropriate for the task.

4.4. Stopping the Engine

To stop the engine, simply move the ignition switch to the 'OFF' position.

5. Maintenance

Regular maintenance ensures the longevity and safe operation of your brush cutter. Always ensure the engine is off and cool before performing any maintenance.

5.1. Air Filter

- Clean the air filter after every 5-10 hours of operation, or more frequently in dusty conditions.
- Remove the air filter cover, take out the filter element, and clean it with warm, soapy water. Rinse thoroughly and allow to dry completely before reinstallation. Replace if damaged.

5.2. Spark Plug

- Inspect the spark plug every 20-30 hours of operation.
- Remove the spark plug using a spark plug wrench. Clean any carbon deposits with a wire brush. Check the electrode gap and adjust if necessary (refer to engine specifications for correct gap). Replace if worn or damaged.

5.3. Fuel Filter

The fuel filter is located inside the fuel tank. Inspect and replace it annually or if fuel delivery issues occur.

5.4. Cutting Attachment

- **Line Spool:** Replace the trimmer line when it runs out. Refer to the spool's instructions for proper reloading.
- **3-Point Blade:** Inspect the blade for cracks, bends, or excessive wear. Sharpen dull blades or replace damaged ones. Always use genuine Omega replacement parts.

5.5. General Cleaning and Storage

- Clean the exterior of the brush cutter after each use, removing grass, dirt, and debris.
- For long-term storage, drain the fuel tank and run the engine until it stops to clear the carburetor of fuel. Store in a dry, well-ventilated area, away from direct sunlight and heat sources.

6. Troubleshooting

Problem	Possible Cause	Solution
Engine won't start	No fuel, incorrect choke position, fouled spark plug, clogged fuel filter	Check fuel level and mixture, adjust choke, clean/replace spark plug, check fuel filter
Loss of power during operation	Clogged air filter, incorrect fuel mixture, dull cutting attachment	Clean air filter, verify fuel mixture, sharpen/replace cutting attachment
Excessive vibration	Damaged or unbalanced blade, loose components	Inspect and replace blade if damaged, tighten all bolts and fasteners
Engine runs rough	Stale fuel, dirty carburetor, incorrect spark plug gap	Drain and replace with fresh fuel, clean carburetor (professional service recommended), adjust spark plug gap

If problems persist after attempting these solutions, please contact a qualified service technician.

7. Specifications

Model Number: 520

Engine Type: 2-stroke, gasoline

Engine Displacement: 52cc

Product Dimensions: 183 x 28.5 x 31 cm (72 x 11.2 x 12.2 inches)

Product Weight: 7.5 kg (16.5 lbs)

Manufacturer: Omega

Included Accessories: Professional harness, line spool, 3-point blade

8. Warranty and Support

For warranty information and customer support, please refer to the documentation provided at the time of purchase or contact your authorized Omega dealer. Keep your proof of purchase for any warranty claims.