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Makita UR012G

Makita UR012G Twin 40v Max XGT Cordless Brushless Brush Cutter User Manual

Model: UR012G | Brand: Makita

1. Introduction and Overview

The Makita UR012G is a high-performance Cordless Brushless Brush Cutter designed for efficient and precise cutting tasks. Powered by two 40V Max XGT Li-ion batteries, it offers robust power and extended runtime. This manual provides essential information for the safe and effective operation, setup, maintenance, and troubleshooting of your brush cutter.
Key features include a soft start for smooth operation, variable speed control, constant speed control to maintain speed under load, and electronic 3-speed settings (Hi/Med/Lo) with an Automatic Torque Drive Technology (ADT) mode. For enhanced safety, it incorporates an electric brake and an electronic current limiter for overload protection. The reverse switch aids in clearing tangled grass clippings, and the rear-end mounted motor ensures optimal tool balance.

2. Safety Instructions

Always prioritize safety when operating power tools. Read and understand all safety warnings and instructions before using the brush cutter. Failure to follow these instructions may result in electric shock, fire, and/or serious injury.

2.1 Personal Protective Equipment (PPE)

- **Eye Protection:** Always wear safety glasses or goggles that comply with applicable standards.
- **Hearing Protection:** Wear ear defenders or earplugs to protect against noise-induced hearing loss.
- **Head Protection:** A hard hat may be necessary in areas with falling debris.
- **Foot Protection:** Wear sturdy, non-slip footwear, preferably with steel toes.
- **Hand Protection:** Wear heavy-duty work gloves to protect hands from cuts and vibrations.
- **Body Protection:** Wear long pants and long sleeves. Avoid loose clothing or jewelry that can get caught in moving parts.

2.2 Work Area Safety

- Keep the work area clean and well-lit. Cluttered or dark areas invite accidents.

- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.
- Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2.3 Electrical and Battery Safety

- Use only batteries and chargers specified by the manufacturer.
- Do not expose battery packs or tools to fire or excessive temperature.
- Do not short-circuit a battery pack.
- Do not use a damaged battery pack or tool.
- Disconnect the battery pack from the tool before making any adjustments, changing accessories, or storing power tools.

3. Components and Features

Familiarize yourself with the various parts of your Makita UR012G brush cutter and its included accessories.



Figure 3.1: Makita UR012G Brush Cutter with included batteries and charger.

3.1 Main Components

- Brush Cutter Unit (Motor, Shaft, Cutting Head)
- Bike Handle Assembly
- Battery Compartment (for two 40V XGT Li-ion batteries)
- Control Panel (Power button, Speed settings, Reverse switch)
- Guard



Figure 3.2: Side view of the brush cutter, highlighting its balanced design.

3.2 Included Accessories

- 2 x 5Ah Makita XGT Lithium-Ion Batteries
- Charger
- Nylon Cutting Head
- Hex Wrench (x2)
- Box Wrench
- Shoulder Belt
- Accessory Bag



Figure 3.3: View of the brush cutter's handle and control interface.

3.3 Features Overview

- **Automatic Torque Drive Technology (ADT):** Automatically changes the cutting speed according to load condition for optimal operation.
- **Constant Speed Control:** Maintains consistent speed even under heavy load.
- **Electric Brake:** Quickly stops the blade/line for increased operator safety.
- **Electronic 3-Speed Settings (Hi/Med/Lo):** Allows matching speed to the application.
- **Electronic Current Limiter:** Provides overload protection for the motor.
- **IPX4 Level Water Resistant:** Offers protection against splashing water from any direction.
- **Reverse Switch:** For easy removal of tangled grass clippings.
- **Soft Start:** Ensures smooth start-ups, reducing initial jerk.
- **Variable Speed Control Function:** Allows precise control over cutting speed.



Figure 3.4: Detail of the XGT X2 80V Max Brushless motor and battery interface.

4. Setup

Proper assembly and preparation are crucial for safe and effective operation.

4.1 Assembly

1. **Handle Assembly:** Attach the bike handle to the main shaft using the provided fasteners and hex wrenches. Ensure it is securely tightened and positioned for comfortable operation.
2. **Guard Installation:** Secure the cutting guard to the shaft above the cutting head. This guard is essential for protecting the operator from debris.
3. **Cutting Head Attachment:** Install the nylon cutting head onto the spindle. Refer to the specific instructions for the cutting head type for proper attachment and tightening using the box wrench.

4.2 Battery Charging and Installation

1. **Charge Batteries:** Connect the charger to a power outlet. Insert both 40V Max XGT Li-ion batteries into the charger. Allow them to fully charge before first use. The charger will indicate when charging is complete.
2. **Install Batteries:** Once charged, slide both batteries into the designated battery slots on the brush cutter until they click securely into place. Ensure both batteries are fully seated for the tool to operate.

4.3 Shoulder Belt Adjustment

Attach the shoulder belt to the brush cutter's designated attachment point. Adjust the length of the belt so that the cutting head is comfortably positioned just above the ground when you are standing upright. This helps distribute the tool's weight and reduces operator fatigue.

5. Operating Instructions

Follow these steps for safe and effective operation of your Makita UR012G brush cutter.

5.1 Pre-Operation Check

- Ensure all fasteners are tight and the cutting head is securely attached.
- Check the battery charge level.
- Clear the work area of any obstacles, rocks, or debris that could be thrown by the cutting head.
- Wear all required Personal Protective Equipment (PPE).

5.2 Starting and Stopping

1. **To Start:** Press the main power button. The tool will enter standby mode. Then, depress the trigger switch to start the cutting head. The soft start feature will ensure a gradual ramp-up.
2. **To Stop:** Release the trigger switch. The electric brake will quickly stop the cutting head. Press the main power button again to turn off the tool completely.

5.3 Speed Settings and ADT Mode

Use the electronic 3-speed settings (Hi/Med/Lo) to match the cutting speed to the density of the vegetation.

- **Low (Lo):** For light trimming and extended battery life.
- **Medium (Med):** For general grass cutting.
- **High (Hi):** For dense brush and heavy-duty cutting.
- **ADT Mode:** When activated, the tool automatically adjusts the cutting speed and torque based on the load, optimizing performance and battery life.

5.4 Using the Reverse Switch

If the cutting head becomes tangled with grass or weeds, release the trigger, then activate the reverse switch. This will cause the cutting head to spin in reverse, helping to clear the obstruction. Once cleared, return the switch to the forward position before resuming cutting.

5.5 Cutting Techniques

- Maintain a firm grip on the handles.
- Swing the brush cutter in a smooth, sweeping motion.
- Avoid hitting hard objects like rocks, fences, or concrete, as this can damage the cutting head and cause kickback.
- Work away from your body and ensure bystanders are at a safe distance.



Figure 5.1: Proper operation of the brush cutter with shoulder belt and PPE.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your brush cutter.

6.1 Cleaning

- After each use, disconnect the batteries and clean the tool.
- Remove grass clippings, dirt, and debris from the cutting head, guard, and motor housing using a brush or compressed air.
- Wipe down the exterior with a damp cloth. Do not use harsh chemicals or abrasive cleaners.

6.2 Cutting Head/Line Replacement

Periodically inspect the nylon cutting line for wear. Replace the line or the entire cutting head as needed. Refer to the cutting head's specific instructions for replacement procedures. Always ensure the tool is off and batteries are removed before performing any maintenance.

6.3 Battery Care and Storage

- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
- Do not store batteries in a discharged state for extended periods. Charge them periodically if not in use.
- Do not expose batteries to water or moisture.

6.4 General Storage

Store the brush cutter in a dry, secure location, out of reach of children. Disconnect batteries before storing for extended periods.

7. Troubleshooting

This section addresses common issues you might encounter with your brush cutter.

Problem	Possible Cause	Solution
Tool does not start	Batteries not charged or not properly inserted; Power button not pressed; Tool in overload protection.	Ensure batteries are fully charged and securely inserted. Press the main power button. If overloaded, allow tool to cool down.
Reduced cutting performance	Worn or tangled cutting line; Low battery charge; Incorrect speed setting for material.	Replace cutting line. Recharge batteries. Select a higher speed setting (Hi or ADT mode).
Tool stops during operation	Overload protection activated; Battery overheating; Battery depleted.	Reduce load. Allow tool and batteries to cool. Recharge or replace batteries.
Excessive vibration	Damaged or improperly installed cutting head; Loose components.	Inspect cutting head for damage and ensure it is correctly installed. Check all fasteners for tightness.

8. Specifications

Specification	Value
Model	UR012G
Battery Voltage	80V (40V x2)
Battery Type	XGT Li-ion
Cutting Diameter	480mm
Spindle Size	M10 x 1.25 Left
No Load Speed (Hi)	6,400 rpm
No Load Speed (Med)	5,000 rpm
No Load Speed (Lo)	3,500 rpm
Vibration K Factor	1.5 m/sec²

Specification	Value
Power Source Type	Battery Powered
Assembly Required	Yes
UPC	088381774246

9. Warranty and Support

Makita products are manufactured to high-quality standards and are backed by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official Makita website.

If you require technical assistance, spare parts, or service, please contact Makita customer support or an authorized Makita service center. Ensure you have your product model number (UR012G) and serial number (if applicable) ready when contacting support.

For more information, visit the official Makita UK store:Makita UK Store

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