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› Hyper Tough AQ8001G, HT Charge 20V 6-1/2 Inch Circular Saw User Manual

Hyper Tough AQ8001G

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Model: AQ8001G | Brand: Hyper Tough

IMPORTANT SAFETY INSTRUCTIONS

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

- **Personal Protective Equipment:** Always wear appropriate eye protection (safety glasses or goggles) and hearing protection (earplugs or earmuffs) when operating the saw.
- **Guard System:** Never operate the saw without the guard system fully functional and in place. Ensure the lower guard closes instantly after a cut.
- **Hand Placement:** Keep hands and body away from and to the side of the blade. Contact with the blade will result in serious injury. Always hold the saw firmly with both hands during operation.
- **Workpiece Security:** Support and clamp the workpiece securely to prevent movement during cutting.
- **Blade Inspection:** Carefully inspect the blade before each use. Do not use damaged, dull, or bent blades. Ensure the blade bolt is tightened securely as instructed in the assembly section.
- **Material Compatibility:** This saw is designed for cutting wood, plastic, and laminate. Cutting through very hard or brittle materials, or striking hard objects (like nails or screws) can cause the blade carbide to break off, leading to dangerous projectile fragments.
- **Power Tool Manual:** Always refer to the complete power tool manual for detailed safety guidelines specific to your model.

PRODUCT OVERVIEW

The Hyper Tough 6 1/2 inch, 20V Max HT Charge Lithium Ion Cordless Circular Saw (Model AQ8001G) is a versatile tool designed for various cutting tasks. Its cordless design offers portability and convenience for use in locations without immediate AC power access. The saw features a balanced design and an ergonomic handle for comfortable and controlled operation.



An image showing the Hyper Tough AQ8001G 20V 6-1/2 Inch Circular Saw from a front-side angle, highlighting the blade, motor housing, and handle. The blade is a 24-tooth carbide-tipped ripping blade, 6 1/2 inches in diameter with a 5/8 inch arbor.

Key Features

- **Cordless Convenience:** Powered by a 20V Max HT Charge Lithium Ion battery for portable operation.
- **High Performance:** Delivers a no-load speed of 4000 RPMs for efficient and accurate cutting.
- **Adjustable Depth:** Allows depth control up to 2-1/8 inches at a 90-degree cutting angle.
- **Bevel Capacity:** Capable of making bevel cuts up to 50 degrees.
- **Improved Sight Line:** Left-side mounted blade provides a clearer view of the cutting line.
- **Included Blade:** Comes with one 6.5-inch, 24-tooth blade suitable for wood, plastic, and laminate.
- **Parallel Guide:** Includes an adjustable parallel guide for making long, straight cuts.
- **Complete Kit:** Includes one battery and one 3-hour charger.

SETUP

Battery Installation and Removal

1. **To Install:** Align the battery pack with the battery port on the saw handle. Slide the battery into the port until it clicks securely into place.

2. **To Remove:** Press the battery release button (usually located on the battery pack itself) and slide the battery out of the port.

Blade Installation

Always disconnect the battery pack before performing any assembly or adjustments.

1. Ensure the saw is unplugged and the battery is removed.
2. Locate the blade wrench (if included) and the arbor lock button.
3. Press and hold the arbor lock button to prevent the arbor from rotating.
4. Using the blade wrench, loosen and remove the arbor nut and outer washer. Note the direction of rotation for loosening.
5. Carefully lift the lower blade guard and place the 6.5-inch blade onto the arbor, ensuring the teeth are pointing in the direction of the rotation arrow on the saw. The blade has a 5/8-inch arbor hole.
6. Replace the outer washer and arbor nut.
7. Press and hold the arbor lock button again and tighten the arbor nut securely with the blade wrench. Do not overtighten.
8. Release the arbor lock and check that the blade spins freely and the lower guard operates correctly.

Adjustments

- **Depth Adjustment:** Loosen the depth adjustment lever/knob. Move the base plate up or down to achieve the desired cutting depth (up to 2-1/8 inches at 90 degrees). Tighten the lever/knob securely.
- **Bevel Adjustment:** Loosen the bevel adjustment lever/knob. Tilt the base plate to the desired angle (up to 50 degrees). Tighten the lever/knob securely.
- **Parallel Guide:** Insert the parallel guide into the slots on the front of the saw base. Adjust its position to the desired width for rip cuts and tighten the locking screw.

OPERATING INSTRUCTIONS

General Operation

1. Ensure the battery is fully charged and properly installed.
2. Verify that the blade is correctly installed and tightened, and the guards are functioning.
3. Secure the workpiece firmly to a stable surface using clamps.
4. Hold the saw firmly with both hands, maintaining a balanced stance.
5. Align the blade with your cutting line.
6. Depress the trigger to start the saw, allowing the blade to reach full speed before contacting the workpiece.
7. Guide the saw smoothly through the material, maintaining a consistent feed rate. Avoid forcing the saw.
8. Once the cut is complete, release the trigger and allow the blade to stop completely before setting the saw down.

Cutting Techniques

- **Straight Cuts:** Use the sight line on the base plate to follow your marked line. For long, straight cuts, consider using the parallel guide or a straight edge clamped to the workpiece.
- **Bevel Cuts:** Adjust the bevel angle as described in the 'Adjustments' section. Be aware that the cutting depth will be reduced when making bevel cuts.
- **Cross-Cutting:** When cutting across the grain of wood, ensure the workpiece is well supported on both sides of the cut to prevent splintering.
- **Rip-Cutting:** Use the parallel guide to maintain a consistent width when cutting along the grain.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your circular saw. Always disconnect the battery before performing any maintenance.

- **Cleaning:** After each use, wipe down the saw with a clean, damp cloth. Use compressed air to clear dust and debris from the motor vents and blade area. Do not use harsh chemicals or abrasive cleaners.
- **Blade Care:** Inspect the blade regularly for sharpness, damage, or missing carbide tips. A dull or damaged blade can cause kickback and poor cut quality. Replace blades as needed.
- **Guard Function:** Periodically check that the lower blade guard moves freely and retracts fully. Clean any sawdust or debris that might impede its movement.
- **Battery Care:** Store batteries in a cool, dry place. Do not expose them to extreme temperatures. Follow the charging instructions provided with the charger.
- **Cordless Tool Storage:** Store the saw in a dry, secure location, out of reach of children.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Saw does not start	Battery not charged or improperly installed; Faulty switch	Ensure battery is fully charged and securely inserted. If problem persists, contact customer support.
Poor cut quality (splintering, rough edges)	Dull or damaged blade; Incorrect blade for material; Improper feed rate	Replace blade. Ensure blade is appropriate for the material. Adjust feed rate to be slower and more consistent.
Blade binding or kickback	Workpiece not properly supported/clamped; Blade dull or damaged; Forcing the saw; Incorrect depth setting	Ensure workpiece is fully supported and clamped. Replace blade if dull/damaged. Do not force the saw; let the blade do the work. Adjust cutting depth to be slightly deeper than the material.
Lower guard not retracting	Sawdust or debris obstructing movement; Damaged spring	Clean out any sawdust or debris from around the guard. If spring is damaged, contact customer support for repair.

TECHNICAL SPECIFICATIONS

Specification	Value
Brand	Hyper Tough
Model	AQ8001G
Power Source	Battery Powered (20 Volts)
No-Load Speed	4000 RPM
Blade Diameter	6.5 Inches
Arbor Size	5/8 Inches

Specification	Value
Number of Teeth	24 (Carbide Tipped)
Max Cutting Depth (90°)	2-1/8 Inches
Max Bevel Cut	50 Degrees
Item Weight	7.41 pounds
Product Dimensions	7.8 x 13.3 x 10.2 inches
UPC	889526201296

WARRANTY AND SUPPORT

Specific warranty details are not available in the provided product information. For warranty claims, technical support, or replacement parts, please contact Hyper Tough customer service directly. Keep your purchase receipt as proof of purchase.

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Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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