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Hitachi HITC9U3L

Hitachi C9U3 235mm Circular Saw User Manual

Model: HITC9U3L

Brand: Hitachi

1. Introduction

The Hitachi C9U3 235mm Circular Saw is a robust power tool designed for efficient and precise cutting through various materials, primarily wood. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your circular saw.

Key features of this model include a unique angle setting system for precise 90° cuts, a durable aluminum blade cover and base, and a soft-grip handle for comfortable use. It also features a dust blower to keep the cutting line visible and an adjustable metal cutting line guide for enhanced accuracy.

2. Important Safety Instructions

Always observe the following safety precautions to reduce the risk of electric shock, fire, and serious personal injury.

- **Wear Eye Protection:** Always wear safety glasses or goggles when operating the circular saw. The blade itself indicates "USE SAFETY GLASSES".
- **Keep Work Area Clean:** Cluttered areas and benches invite injuries. Ensure your workspace is well-lit.
- **Avoid Dangerous Environment:** Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lit.
- **Keep Children Away:** All visitors should be kept a safe distance from the work area.
- **Secure Workpiece:** Always clamp or secure the workpiece to a stable surface. Do not hold the workpiece by hand.
- **Use Correct Tool:** Do not force a small tool or attachment to do the job of a heavy-duty tool.
- **Dress Properly:** Do not wear loose clothing or jewelry. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
- **Disconnect Tools:** Disconnect the tool from the power supply when not in use, before servicing, or when changing accessories like blades.
- **Avoid Accidental Starting:** Ensure the switch is in the OFF position before plugging in.
- **Maintain Tools With Care:** Keep cutting tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have them repaired by an

authorized service facility.

- **Check for Damaged Parts:** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function.
- **Never Stand on Tool:** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
- **Do Not Overreach:** Keep proper footing and balance at all times.
- **Guard Operation:** Ensure the blade guard operates freely and closes instantly.
- **Power Cord Management:** The 4m power cable and cable support ensure the cord is clear of the cutting line, preventing entanglement.

3. Product Overview and Components



Figure 3.1: Overview of the Hitachi C9U3 235mm Circular Saw. This image displays the main body of the saw, including the motor housing, handle, blade guard, and the 235mm TCT blade. The durable aluminum base plate and the adjustable metal guide are also clearly visible, highlighting the robust construction of the tool.

The Hitachi C9U3 circular saw is comprised of several key components:

- **Motor Housing:** Contains the powerful 1670 Watt (110V) motor.
- **Main Handle:** Ergonomically designed with a soft grip for comfortable operation.
- **Auxiliary Handle:** Provides additional control and stability during cuts.
- **Blade Guard:** An aluminum cover that protects the blade and retracts during cutting.
- **Base Plate:** A sturdy aluminum base that rests on the workpiece, ensuring stable and accurate cuts.

- **Blade:** A 235mm TCT (Tungsten Carbide Tipped) saw blade, typically 20T (20 teeth).
- **Depth Adjustment Lever:** Allows for quick and easy adjustment of cutting depth.
- **Bevel Adjustment Lever:** Enables setting the cutting angle for bevel cuts (up to 45°).
- **Spindle Lock Button:** Used to lock the spindle for safe blade changes.
- **Dust Extraction Port:** Connects to a dust extraction adapter for a cleaner work environment.
- **Adjustable Metal Line Guide:** Helps maintain a straight cutting line.

4. Setup

4.1. Blade Installation

1. Ensure the saw is unplugged from the power source.
2. Press and hold the spindle lock button.
3. Use the provided wrench to loosen the blade retaining bolt.
4. Remove the old blade (if applicable) and clean the arbor.
5. Place the new 235mm TCT blade onto the arbor, ensuring the teeth are pointing in the direction of rotation (usually indicated by an arrow on the guard).
6. Tighten the blade retaining bolt securely with the wrench while holding the spindle lock.
7. Release the spindle lock.

4.2. Adjusting Cutting Depth

To adjust the cutting depth, loosen the depth adjustment lever. Raise or lower the base plate until the desired depth is achieved. For optimal performance and safety, set the blade depth so that the blade extends approximately 3-6mm below the workpiece.

4.3. Adjusting Cutting Angle (Bevel)

The unique angle setting system allows for precise 90° cuts and bevel cuts up to 45°. Loosen the bevel adjustment lever and tilt the saw base to the desired angle. Tighten the lever firmly before making a cut.

4.4. Dust Extraction Adapter

Attach the provided dust extraction adapter to the dust port on the saw. Connect a suitable vacuum cleaner or dust extractor hose to the adapter to minimize sawdust and maintain a clear cutting line.

5. Operating Instructions

5.1. General Operation

1. Ensure the workpiece is securely clamped and stable.
2. Plug the saw into a suitable 110 Volt power outlet.
3. Position the front of the base plate on the workpiece, ensuring the blade is clear of the material.
4. Depress the trigger switch to start the saw. Allow the blade to reach full speed before beginning the cut.
5. Slowly push the saw forward through the workpiece, maintaining a steady and consistent feed rate. Do not force the saw.
6. The integrated dust blower will help keep the cutting line visible during operation.
7. Once the cut is complete, release the trigger switch and allow the blade to stop completely before lifting the saw

from the workpiece.

5.2. Using the Adjustable Metal Line Guide

The adjustable metal line guide can be inserted into the slot on the base plate to assist in making straight cuts. Adjust its position to the desired cutting line and tighten the securing screw. This guide is particularly useful for ripping long boards.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your Hitachi circular saw.

- **Cleaning:** After each use, unplug the saw and use a brush or compressed air to remove sawdust and debris from the blade guard, motor vents, and base plate. Do not use solvents or abrasive cleaners.
- **Blade Condition:** Regularly inspect the blade for sharpness, damage, or missing teeth. A dull or damaged blade can cause kickback and poor cut quality. Replace blades as necessary following the instructions in Section 4.1.
- **External Brush Caps:** The saw features external brush caps for easier maintenance. Periodically check the carbon brushes for wear. When they are worn down, replace them with genuine Hitachi replacement brushes. Refer to the full service manual for detailed instructions on brush replacement.
- **Cord Inspection:** Inspect the 4m power cord for any signs of damage, cuts, or fraying. If damaged, have it repaired by a qualified service technician.
- **Lubrication:** This tool is designed for maintenance-free operation regarding lubrication. Do not attempt to lubricate internal components.

7. Troubleshooting

Problem	Possible Cause	Solution
Saw does not start.	No power supply; faulty switch; worn carbon brushes.	Check power connection; ensure switch is fully depressed; inspect and replace carbon brushes if worn.
Blade not cutting efficiently or burning wood.	Dull or damaged blade; incorrect blade for material; forcing the saw.	Replace blade; ensure correct blade type is used; reduce feed rate.
Excessive vibration.	Loose blade; damaged blade; bent arbor.	Tighten blade bolt; replace blade; if arbor is bent, seek professional repair.
Blade guard sticking.	Accumulation of sawdust or debris; damaged guard mechanism.	Clean the guard mechanism thoroughly; if damaged, seek professional repair.

8. Technical Specifications

Feature	Value
Model Number	HITC9U3L
Power Input (110V)	1670 Watt

Feature	Value
No-Load Speed	5,000 RPM
Blade Diameter	235 mm
Bore Diameter	30 mm
Max. Cutting Depth at 90°	86 mm
Max. Cutting Depth at 45°	65 mm
Weight	6.8 kg
Power Cord Length	4 m
Voltage	110 Volt
Material (Blade)	Metal (TCT)
Recommended Surfaces	Wood

Note: Specifications are subject to change without notice for product improvement.

9. Warranty and Customer Support

Hitachi Power Tools products are manufactured to high-quality standards. For information regarding warranty coverage, please refer to the warranty card included with your product or visit the official Hitachi Power Tools website for your region.

For technical assistance, spare parts, or service inquiries, please contact your local authorized Hitachi Power Tools service center or customer support. Always provide the model number (HITC9U3L) and serial number (if applicable) when seeking support.

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