

## YUCHENGTECH 8980W Concrete Ring Saw

# YUCHENGTECH 16-inch 8980W Concrete Ring Saw Instruction Manual

Model: 8980W Concrete Ring Saw | Brand: YUCHENGTECH

## 1. INTRODUCTION

This manual provides essential information for the safe and effective operation, setup, and maintenance of your YUCHENGTECH 16-inch 8980W Concrete Ring Saw. This powerful electric cutting saw is designed for heavy-duty applications, including cutting concrete, bricks, rebar, and marble, with a maximum cutting depth of 11.4 inches. It features an integrated wet cutting system for dust suppression and blade cooling.



Overview of the YUCHENGTECH 16-inch Concrete Ring Saw highlighting its high-strength diamond blade, powerful 8980W motor, true 90-degree cutting, wide application, dust-free wet cutting, and max cutting depth of 11.4 inches.

## PERFECT FOR ALL KINDS OF PROJECTS!



Stone cutting



Wall cutting



Floor cutting



Concrete cutting

The concrete ring saw is suitable for various projects including stone cutting, wall cutting, floor cutting, and general concrete cutting.

## 2. SAFETY INSTRUCTIONS

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Always prioritize safety when operating power tools. Failure to follow these instructions may result in serious injury or property damage.

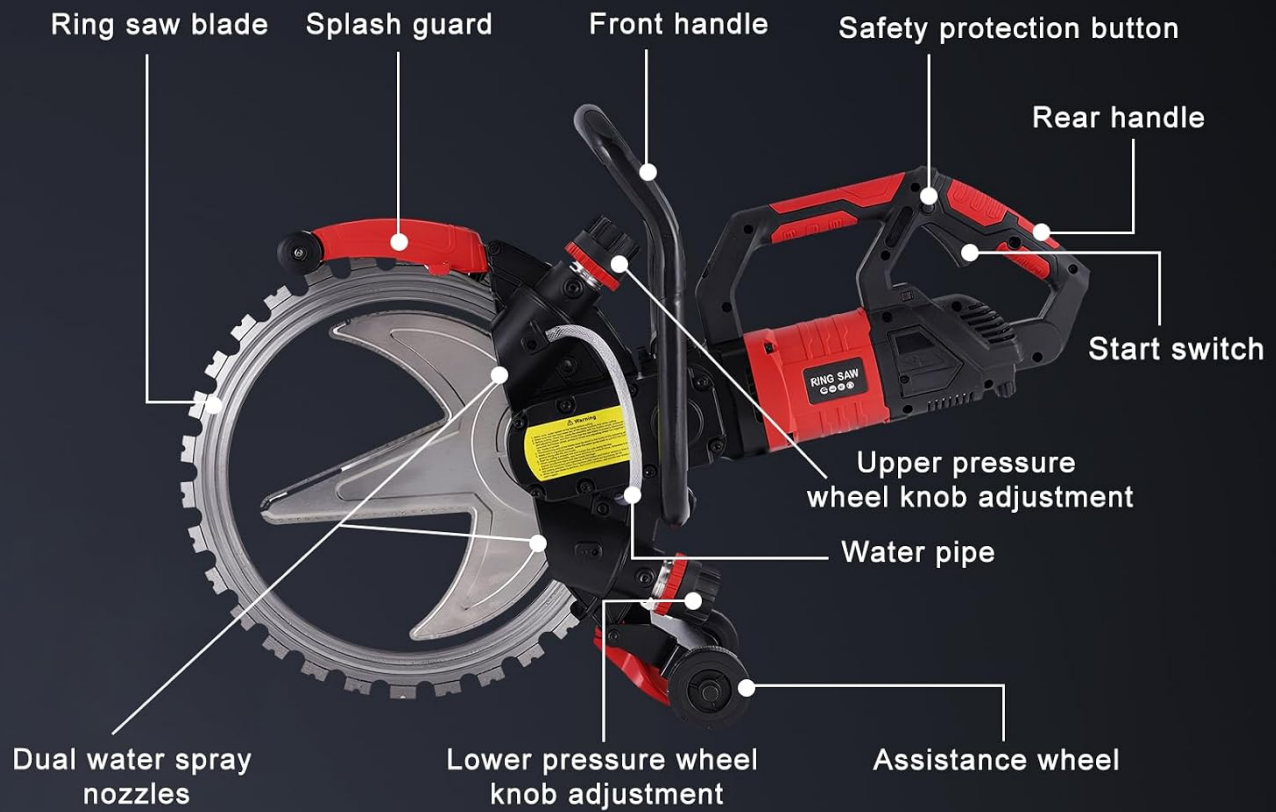
- **Power Requirements:** Ensure a stable 110V power supply. Use a 6 mm<sup>2</sup> power cable routed from the distribution box. Connect the saw to a dedicated outlet and circuit breaker rated for a minimum of 40 amps.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, hearing protection, gloves, and a dust mask, especially during dry cutting or when dust is present.
- **Water Flow:** Maintain adequate water flow during all cutting operations to prevent motor damage, cool the blade, and suppress dust. Never operate the saw without water when wet cutting is intended.
- **Work Area:** Keep the work area clean, well-lit, and free from obstructions. Ensure bystanders are kept at a safe distance.
- **Blade Inspection:** Before each use, inspect the diamond saw blade for damage, cracks, or excessive wear. Replace damaged blades immediately.
- **Secure Workpiece:** Ensure the material being cut is stable and securely supported to prevent movement during operation.
- **Avoid Overload:** Do not force the saw. Allow the blade to cut at its own pace. Excessive pressure can lead to motor overload and premature wear.
- **Unplug When Not in Use:** Always unplug the saw from the power source before making adjustments, changing blades, or performing maintenance.

## 3. PRODUCT OVERVIEW

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Familiarize yourself with the components of your YUCHENGTECH Concrete Ring Saw for safe and efficient operation.

# PRODUCT STRUCTURE



**Rated Power:**  
8980W

**No-load Speed:**  
3000RPM

**Saw Blade Diameter:**  
16" / 410MM

**Net Weight:**  
39.7LBS/18KG

**Voltage/Frequency:**  
110V-60Hz

**Maximum Cutting Depth:**  
11.4" / 290MM

Detailed diagram illustrating the main components of the concrete ring saw, including the ring saw blade, splash guard, front handle, safety protection button, rear handle, start switch, upper pressure wheel knob adjustment, water pipe, dual water spray nozzles, lower pressure wheel knob adjustment, and assistance wheel.

## Key Components:

- **Ring Saw Blade:** The primary cutting component, 16 inches in diameter.
- **Splash Guard:** Protects the user from debris and water spray.
- **Front Handle:** Provides stability and control during operation.
- **Rear Handle:** Main grip with integrated start switch and safety button.
- **Safety Protection Button:** Prevents accidental startup.
- **Start Switch:** Activates the motor.
- **Upper/Lower Pressure Wheel Knob Adjustment:** Used to adjust tension and cutting depth.
- **Water Pipe & Dual Water Spray Nozzles:** Part of the wet cutting system for cooling and dust suppression.
- **Assistance Wheel:** Aids in smooth movement and stability during cutting.



## 3D Circulation Cooling

Fast circulation cooling, no overheating even during long periods of operation.

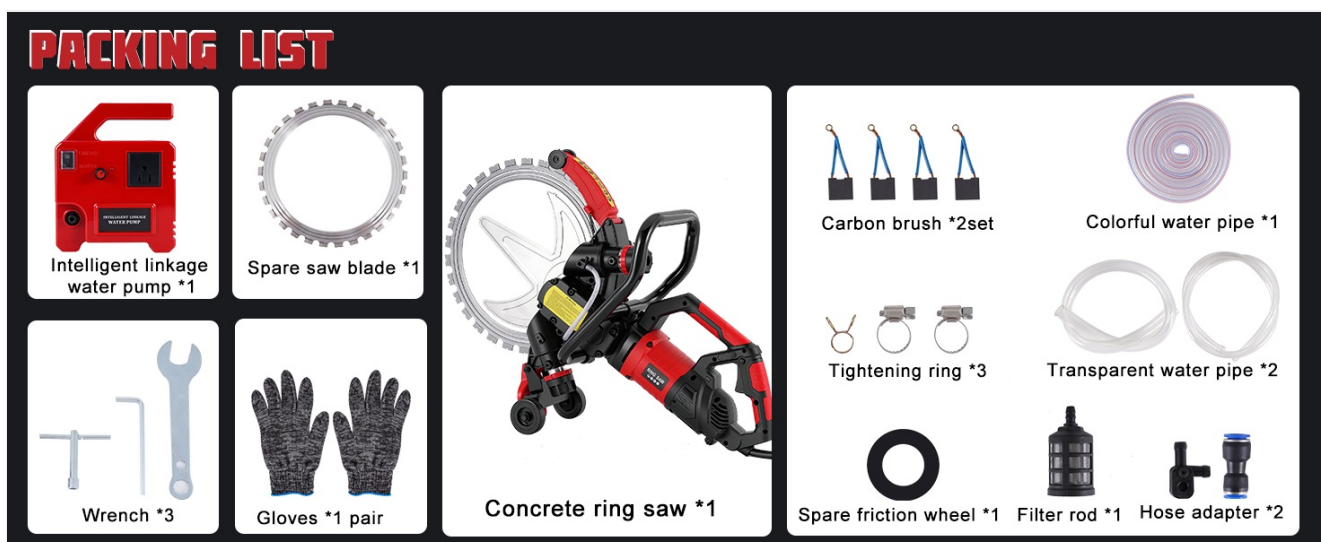
The saw features a 3D circulation cooling system for the motor, ensuring fast cooling and preventing overheating during extended operation.

## 4. SETUP

Before operating the saw, ensure proper setup and connection of all components.

### 4.1 Unpacking and Initial Inspection

- Carefully remove all components from the packaging.
- Inspect the saw and all accessories for any signs of damage during transit. Do not operate if damaged.
- Verify that all items listed in the packing list are present.



The packing list includes the intelligent linkage water pump, spare saw blade, carbon brush set, colorful water pipe, wrench, gloves, concrete ring saw, spare friction wheel, filter rod, hose adapter, tightening rings, and transparent water pipe.

### 4.2 Connecting the Wet Cutting System

The saw includes an integrated wet cutting system for dust control and blade cooling.

- Connect the water pipe to the saw's water inlet and the intelligent linkage water pump.
- Ensure all connections are secure to prevent leaks.
- Place the water pump in a bucket of clean water.

# AUTO-WATER SYSTEM

Dust-free wet cutting effectively extends the service life of saw blades and protects the environment.

**Note:** When cutting, use as much water as possible to flush out debris and cool the area. Never use without water.



Dual Water Outlet



Intelligent Linkage Water Pump



The auto-water system features dual water outlets on the saw and an intelligent linkage water pump for effective dust suppression and blade cooling. Always use water when cutting to flush debris and cool the area.

## 4.3 Power Connection

- Connect the saw's power cord to a dedicated 110V outlet with a 40-amp circuit breaker.
- Ensure the power cable is of adequate gauge (6 mm<sup>2</sup>) and free from damage.

## 5. OPERATING INSTRUCTIONS

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Follow these steps for safe and effective operation of your concrete ring saw.

### 5.1 Starting the Saw

- Ensure all safety precautions are observed and PPE is worn.
- To start the saw, first press the round safety protection button, then press the main start switch on the rear handle.



The saw features a double switch mechanism: first press the round button to unlock, then press the switch to start. This design effectively prevents accidental start-up and ensures safe use.

## 5.2 Cutting Technique

The 8980W pure copper motor provides a 3000 RPM rotating speed, allowing efficient cutting through dense materials.

- **Wet Cutting:** Always ensure the water pump is active and providing a steady flow of water to the blade during cutting. This cools the blade, prolongs its life, and minimizes dust.
- **Intermittent Cutting:** To prevent overload and ensure smooth operation, avoid continuous downward pressure. Lift the tool intermittently for segmented cutting to reduce load on the motor and blade.

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This video demonstrates precautions for preventing overload during operation. It shows the importance of not continuously pressing down during cutting and lifting the tool intermittently for segmented cutting to reduce the load on the saw.

# FULL 90° ACCESS

Cut at any angle and easily slot wall corners.



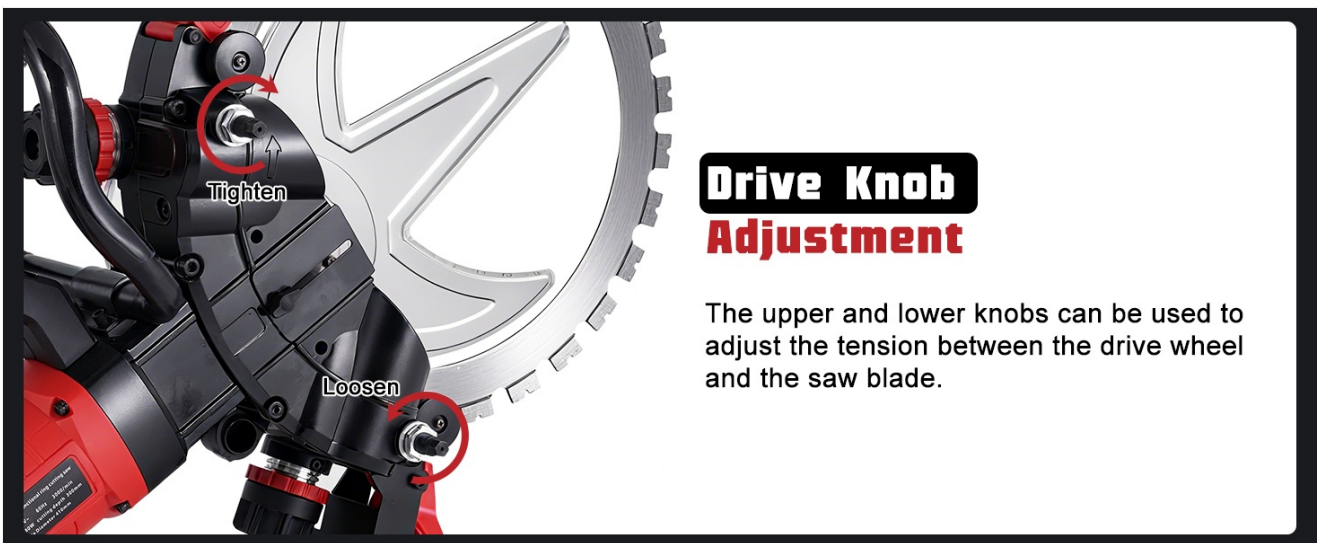
The saw allows for full 90-degree access, enabling cutting at various angles and easy slotting of wall corners.

## 5.3 Adjusting Cutting Depth and Guard

- The saw can achieve a maximum cutting depth of 11.4 inches. Adjust the depth as needed for your specific application.
- The upper and lower pressure wheel knobs can be used to adjust the tension between the drive wheel and the saw blade, which influences cutting depth and stability.
- The protective guard is adjustable to effectively prevent mud splatter and debris.



The saw offers a deep cutting capability of up to 11.4 inches, allowing for significant material penetration.



The drive knob adjustment allows users to tighten or loosen the upper and lower knobs to adjust the tension between the drive wheel and the saw blade, optimizing cutting performance.

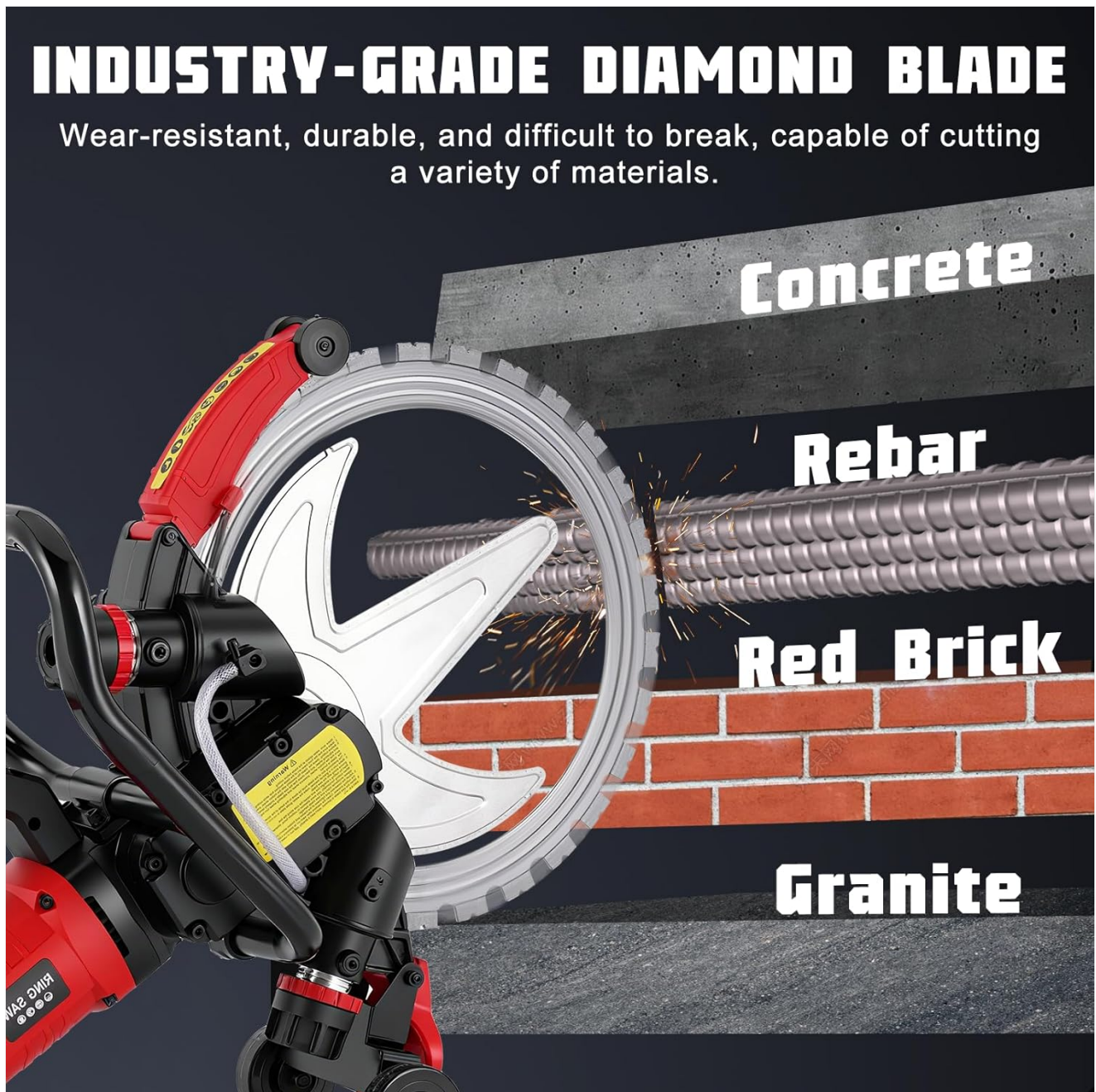


The adjustable protective guard can be positioned to effectively prevent mud splatter and enhance user safety.

## 5.4 Material Compatibility

The premium diamond-coated blade is designed for versatile cutting across various hard materials.

- Concrete
- Bricks
- Rebar
- Granite
- Marble



The industry-grade diamond blade is wear-resistant, durable, and capable of cutting a variety of materials including concrete, rebar, red brick, and granite.

## Sliding Auxiliary Wheel

Prevents uneven cutting  
when cutting walls, saving  
time and effort.



The sliding auxiliary wheel helps prevent uneven cutting when working on walls, contributing to smoother operation and reduced effort.

## 6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your YUCHENGTECH Concrete Ring Saw.

- **Cleaning:** After each use, thoroughly clean the saw, especially the blade area and water nozzles, to remove concrete slurry and debris. Use clean water to flush the wet cutting system.
- **Blade Care:** Inspect the diamond blade regularly for wear. A worn blade will reduce cutting efficiency and increase strain on the motor. Replace blades as needed.
- **Water System:** Periodically check the water pipes and pump for blockages or damage. Ensure the filter rod is clean.
- **Carbon Brushes:** The saw uses carbon brushes. Refer to the packing list for spare carbon brushes. Replace them when they are worn down to their limit to maintain motor efficiency. Consult a qualified technician if unsure.
- **Storage:** Store the saw in a clean, dry place, away from direct sunlight and extreme temperatures.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Saw does not start	No power supply; Safety button not pressed; Faulty switch; Worn carbon brushes.	Check power connection and circuit breaker; Ensure safety button is pressed before switch; Inspect power cord; Replace carbon brushes if worn.
Reduced cutting performance	Worn or damaged blade; Insufficient water flow; Overloading the motor.	Replace blade; Check water pump and nozzles for blockages; Reduce cutting pressure and use intermittent cutting technique.
Motor overheating	Continuous heavy load; Insufficient ventilation; Worn carbon brushes.	Allow saw to cool down; Use intermittent cutting; Ensure ventilation openings are clear; Replace carbon brushes.
Water system not working	Water pump not connected/powered; Blocked nozzles/pipes; Low water level.	Check pump connection and power; Clean nozzles and flush pipes; Ensure water bucket has sufficient water.

## 8. SPECIFICATIONS

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Detailed technical specifications for the YUCHENGTECH 16-inch 8980W Concrete Ring Saw.

Feature	Specification
Brand	YUCHENGTECH
Model Number	concrete ring saw
Power Source	Corded Electric
Voltage	110 Volts
Wattage	8980 watts
No-load Speed	3000 RPM
Blade Length / Diameter	16 Inches / 410 MM
Blade Material	Tungsten steel (Diamond coated)
Blade Shape	Toroidal
Maximum Cutting Depth	11.4 Inches / 290 MM
Item Dimensions (L x W x H)	30"L x 10"W x 20"H
Net Weight	39.7 LBS / 18 KG
Special Feature	Water Cooling Dust Removal
Surface Recommendation	Concrete, Marble, Cement, Brick

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or to purchase replacement parts, please contact YUCHENGTECH customer service. Keep your purchase receipt as proof of purchase for any warranty claims.

- **Customer Service:** Refer to the contact information provided with your product packaging or visit the official YUCHENGTECH website.
- **Returns:** This product may be eligible for 30-day easy returns. Refer to your retailer's return policy for details.