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› Hyper Tough 20V Li-ion Chainsaw HT19-401-003-11 User Manual

## Hyper Tough HT19-401-003-11

# Hyper Tough 20V Li-ion Chainsaw

MODEL: HT19-401-003-11

## 1. Important Safety Instructions

Always read and understand all safety warnings, instructions, illustrations, and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire, and/or serious injury.

### General Power Tool Safety Warnings

- **Work Area Safety:** Keep 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.
- **Electrical Safety:** Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- **Personal Safety:** Always wear eye protection. Use appropriate personal protective equipment (PPE) such as non-skid safety shoes, hard hat, or hearing protection when conditions require.
- **Chainsaw Specific Safety:** Always hold the chainsaw firmly with both hands when the engine is running. Use a firm grip with thumbs and fingers encircling the chainsaw handles.

### Kickback Safety

Kickback may occur when the nose or tip of the guide bar touches an object, or when the wood closes in and pinches the saw chain in the cut. Tip contact in some cases may cause a lightning fast reverse reaction, kicking the guide bar up and back towards the operator. Pinching the saw chain along the top of the guide bar may push the guide bar rapidly back towards the operator. Either of these reactions may cause you to lose control of the saw which could result in serious personal injury.

## 2. Product Overview

Familiarize yourself with the components of your Hyper Tough 20V Li-ion Chainsaw before operation.



Figure 2.1: The Hyper Tough 20V Li-ion Chainsaw, featuring a red and black body, a 10-inch bar, and a removable battery pack. The main handle is at the rear, and an auxiliary handle is at the front for two-handed operation.

### Key Components:

- **Guide Bar:** The elongated part of the chainsaw that supports and guides the saw chain.
- **Saw Chain:** A loop of chain with cutting teeth that rotates around the guide bar.
- **Front Handle:** The handle located at the front of the chainsaw, designed for the non-dominant hand.
- **Rear Handle:** The handle located at the rear of the chainsaw, containing the trigger switch.
- **Chain Brake/Hand Guard:** A safety device that stops the chain rotation and protects the operator's hand.
- **Oil Tank Cap:** For filling the chain lubrication oil.
- **Battery Compartment:** Where the 20V Li-ion battery is inserted.

## 3. Setup

### 3.1 Battery Charging and Installation

1. Ensure the battery is fully charged before first use. Connect the charger to a standard power outlet and insert the battery pack. Refer to the charger's instructions for charging indicators.
2. To install the battery, align the battery pack with the battery compartment on the chainsaw and slide it in until it clicks securely into place.
3. To remove the battery, press the battery release button (if present) and slide the battery pack out.

### 3.2 Chain and Bar Installation (if applicable)

If the chain and bar are not pre-installed, follow these steps:

1. Ensure the battery is removed.
2. Remove the chain cover by loosening the retaining nuts.
3. Place the chain around the sprocket and guide bar, ensuring the cutting edges face the correct direction (refer to markings on the chain or bar).
4. Reinstall the chain cover and hand-tighten the nuts.

### 3.3 Chain Tension Adjustment

Proper chain tension is crucial for safe and efficient operation. The chain should be snug against the guide bar but still able to be pulled freely by hand.

1. With the chain cover nuts slightly loose, use the tensioning screw (usually located on the side of the chainsaw) to adjust the chain tension.
2. Once tension is correct, fully tighten the chain cover nuts.

### 3.4 Adding Chain Lubrication Oil

This chainsaw features an automatic oiling system. It is essential to keep the oil reservoir filled with appropriate bar and chain oil.

1. Ensure the chainsaw is off and the battery is removed.
2. Locate and open the oil tank cap.
3. Fill the reservoir with high-quality bar and chain oil. Do not use waste oil or motor oil.
4. Securely replace the oil tank cap.

## 4. Operating Instructions

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### 4.1 Pre-Operation Checks

- Verify chain tension is correct.
- Check oil level in the chain oil reservoir.
- Ensure all nuts, bolts, and screws are tight.
- Confirm the chain brake is functioning correctly.
- Wear appropriate PPE: safety glasses, hearing protection, gloves, and sturdy footwear.

### 4.2 Starting the Chainsaw

1. Ensure the chain brake is disengaged (pushed back towards the front handle).
2. Grip the rear handle firmly with one hand and the front handle with the other.
3. Press the safety lock-out button (if present) and then squeeze the trigger switch to start the chain.

### 4.3 Cutting Techniques

Always maintain a balanced stance and firm grip with both hands. Plan your cut before starting. Be aware of potential kickback zones.



Figure 4.1: An individual demonstrating proper two-handed grip and stance while cutting logs with the Hyper Tough 20V Li-ion Chainsaw in an outdoor setting.

- **Limbing:** Remove branches from a fallen tree. Work from the bottom up, cutting smaller branches first.
- **Bucking:** Cutting a fallen tree into sections. Be aware of tension and compression in the wood to avoid pinching the bar.
- **Avoid Kickback:** Never cut with the tip of the guide bar. Always use the bottom or top of the bar, keeping the chainsaw firmly against the wood.



Figure 4.2: A user wearing safety glasses and gloves, operating the Hyper Tough 20V Li-ion Chainsaw to cut a large log, demonstrating safe cutting practices.

#### 4.4 Stopping the Chainsaw

Release the trigger switch. The chain will stop rotating. Engage the chain brake for added safety when moving between cuts or when not actively cutting.

### 5. Maintenance

Regular maintenance ensures the longevity and safe operation of your chainsaw.

#### 5.1 Chain Sharpening

A sharp chain is essential for efficient and safe cutting. Sharpen the chain regularly or replace it when dull. Refer to the chain manufacturer's specifications for the correct file size and sharpening angles.

#### 5.2 Guide Bar Maintenance

- Clean the guide bar groove regularly to remove sawdust and debris.

- Flip the guide bar periodically to ensure even wear.
- Check the guide bar for burrs or damage and file them smooth if necessary.

### 5.3 Cleaning and Storage

- After each use, clean the chainsaw thoroughly, removing sawdust, oil, and debris from the motor housing, chain, and bar.
- Store the chainsaw in a dry, secure location, out of reach of children and away from direct sunlight or extreme temperatures.
- Remove the battery pack before storing for extended periods.

## 6. Troubleshooting

This section provides solutions to common issues you might encounter.

| Problem                  | Possible Cause                                                               | Solution                                                                               |
|--------------------------|------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|
| Chainsaw does not start  | Battery not charged<br>Battery not inserted correctly<br>Chain brake engaged | Charge battery<br>Reinsert battery securely<br>Disengage chain brake                   |
| Chain does not move      | Chain brake engaged<br>Chain too tight<br>Debris in sprocket area            | Disengage chain brake<br>Adjust chain tension<br>Clean sprocket and bar groove         |
| Poor cutting performance | Dull chain<br>Incorrect chain tension<br>Insufficient oil lubrication        | Sharpen or replace chain<br>Adjust chain tension<br>Fill oil reservoir, check oil flow |
| Excessive vibration      | Loose components<br>Damaged chain or bar                                     | Check and tighten all fasteners<br>Inspect and replace damaged parts                   |

If the problem persists after attempting these solutions, please contact customer support.

## 7. Specifications

|              |                            |
|--------------|----------------------------|
| Brand        | Hyper Tough                |
| Model Number | HT19-401-003-11            |
| Power Source | 20V Li-ion Battery Powered |
| Horsepower   | 3.5 hp                     |
| Item Weight  | 4.51 kg                    |
| Colour       | Red/Black                  |
| UPC          | 845534033656               |

## 8. Warranty Information

Hyper Tough products are manufactured to high-quality standards. For specific warranty terms and conditions, please refer to the warranty card included with your product packaging or visit the official Hyper Tough website. Keep your proof of purchase for any warranty claims.

## 9. Customer Support

For technical assistance, replacement parts, or any questions regarding your Hyper Tough 20V Li-ion Chainsaw, please contact Hyper Tough customer support. Refer to your product packaging or the official Hyper Tough website for the most current contact information.

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