

## Remington RM1645

# Remington RM1645 Versa Saw 12 Amp 16-Inch Electric Chainsaw User Manual

Model: RM1645

## 1. IMPORTANT SAFETY INFORMATION

**WARNING:** 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 Chainsaw Safety

- Always wear appropriate personal protective equipment (PPE) including safety glasses, hearing protection, gloves, and sturdy footwear.
- Keep children and bystanders at least 50 feet (15 meters) away from the work area.
- Do not operate the chainsaw in wet conditions or in the presence of flammable liquids or gases.
- Inspect the chainsaw before each use for damaged parts, loose fasteners, or oil leaks. Do not operate if damaged.
- Ensure the chain brake is functional and engaged when not cutting.
- Always hold the chainsaw firmly with both hands when operating.
- Be aware of kickback. Avoid the guide bar tip contacting any object.

### Electrical Safety

- Use only extension cords rated for outdoor use and in good condition.
- Ensure the extension cord gauge is appropriate for the length and current draw of the chainsaw to prevent voltage drop and overheating.
- Keep the extension cord clear of the cutting area and away from the chain.
- Never carry the chainsaw by the cord or yank the cord to disconnect it from the receptacle.

## 2. PRODUCT OVERVIEW

The Remington RM1645 Versa Saw is a 12 Amp, 16-inch electric chainsaw designed for trimming, pruning, and general yard clean-up tasks. Its lightweight and ergonomic design, combined with a powerful electric motor, make it suitable for various cutting applications.



Figure 2.1: Overview of the Remington RM1645 Versa Saw Electric Chainsaw.

### Key Features:

- **Powerful 12 Amp Electric Motor:** Provides consistent power for efficient cutting.
- **16-Inch Low-Kickback Bar and Chain:** Designed for improved cutting performance and reduced kickback risk.
- **Lightweight and Ergonomic Design:** Features an overmold comfort handle for balanced and low-vibration operation.
- **Automatic Oiler System:** Maintains proper lubrication on the chain for smooth and safe cutting.
- **Clear Oil Visibility Window:** Allows for easy monitoring of oil levels.
- **Side-Mounted Chain Tensioning:** Enables quick and easy chain adjustments.
- **Chain Brake:** Enhances safety during operation.

## 3. SETUP AND ASSEMBLY

Before operating your chainsaw, ensure it is properly assembled and prepared according to these instructions.

### 3.1 Bar and Chain Installation

1. Ensure the chainsaw is unplugged from the power source.
2. Remove the chain cover by loosening the nuts.
3. Place the chain around the sprocket and guide bar, ensuring the cutting edges face the direction of rotation (away from the motor).
4. Fit the guide bar onto the studs, ensuring the chain fits into the groove of the guide bar.
5. Replace the chain cover and hand-tighten the nuts. Do not fully tighten yet.

### 3.2 Filling the Chain Oil Reservoir

The RM1645 features an automatic oiler system. It is crucial to keep the oil reservoir filled with appropriate bar and chain oil to ensure proper lubrication and prevent damage to the chain and bar.

1. Place the chainsaw on a flat, stable surface.
2. Unscrew the oil cap located on the side of the chainsaw.
3. Carefully pour quality bar and chain oil into the reservoir until it reaches the "MAX" level indicated by the clear visibility window.
4. Replace the oil cap securely.
5. Regularly check the oil level during operation using the clear window and refill as needed.



Figure 3.1: Location of the oil reservoir and clear visibility window.

### 3.3 Adjusting Chain Tension

Proper chain tension is vital for safe and efficient operation. A loose chain can derail, and a too-tight chain can cause excessive wear and damage.

1. Ensure the chainsaw is unplugged.
2. Slightly loosen the chain cover nuts.
3. Use the side-mounted tensioning screw to adjust the chain. Turn clockwise to tighten, counter-clockwise to loosen.
4. The chain is correctly tensioned when it can be pulled away from the guide bar by about 1/8 to 1/4 inch (3-6 mm) at the center, but the drive links remain in the bar groove.
5. Once tension is correct, fully tighten the chain cover nuts.

## 4. OPERATING INSTRUCTIONS

Always follow safety guidelines and wear appropriate PPE before operating the chainsaw.

## 4.1 Starting the Chainsaw

1. Ensure the chain brake is engaged (pushed forward).
2. Connect the chainsaw to a suitable outdoor-rated extension cord, then plug the extension cord into a grounded outlet.
3. Hold the chainsaw firmly with both hands, one on the front handle and one on the rear handle.
4. Disengage the chain brake (pull back towards the operator).
5. Press the trigger switch to start the motor. The chain will begin to move.

## 4.2 Cutting Techniques

- **Felling Small Trees:** For trees up to 6 inches in diameter, make a shallow notch cut on the side of the tree in the direction of the fall, then make the felling cut from the opposite side, slightly above the notch.
- **Limbing:** Remove branches from a fallen tree. Work from the base of the tree towards the top, cutting smaller branches first. Be aware of branches under tension.
- **Bucking:** Cutting a fallen log into shorter sections. Support the log to prevent pinching the chain. If cutting a log supported at both ends, cut from the top down (overbuck) about one-third of the way, then finish from the bottom up (underbuck) to prevent pinching.
- Always maintain a stable stance and keep the chainsaw close to your body for better control.
- Avoid cutting with the tip of the guide bar to prevent kickback.



Figure 4.1: Proper operation of the chainsaw for cutting wood.

## 4.3 Stopping the Chainsaw

1. Release the trigger switch. The chain will stop.
2. Engage the chain brake for added safety.
3. Always unplug the chainsaw from the power source when not in use, before making adjustments, or performing maintenance.

## 5. MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Remington RM1645 chainsaw.

### 5.1 Chain Sharpening

A sharp chain is essential for efficient and safe cutting. A dull chain will produce sawdust instead of chips and require more force to cut.

- Refer to the chain manufacturer's instructions for the correct file size and sharpening angles.
- Sharpen each cutter with a round file, maintaining the original angles.
- File all cutters on one side, then flip the chainsaw and file the cutters on the other side.
- Ensure depth gauges are also maintained to the correct height.

### 5.2 Guide Bar Maintenance

- Periodically clean the guide bar groove to remove sawdust and debris.
- Flip the guide bar regularly to ensure even wear on both sides.
- Check for burrs on the guide bar rails and file them smooth if present.

### 5.3 Automatic Oiler System

- Always use quality bar and chain oil. Do not use waste oil or other lubricants.
- Monitor the oil level frequently using the clear window. Refill before the reservoir becomes empty.
- If the oiler system appears to be malfunctioning (e.g., no oil on the chain, excessive leakage), inspect the oil passages for blockages and ensure the oil cap is sealed correctly. Consult a service professional if issues persist.

### 5.4 Cleaning and Storage

- After each use, unplug the chainsaw and allow it to cool.
- Clean the exterior of the chainsaw with a damp cloth. Remove sawdust and debris from the chain, guide bar, and motor housing vents.
- Store the chainsaw in a dry, secure location, out of reach of children.
- If storing for an extended period, ensure the oil reservoir is filled to prevent drying out of the oil pump components.

## 6. TROUBLESHOOTING

This section provides solutions to common problems you might encounter with your chainsaw.

Problem	Possible Cause	Solution
Chainsaw does not start.	No power supply; Chain brake engaged; Damaged cord/plug.	Check power connection and outlet; Disengage chain brake; Inspect cord/plug for damage and replace if necessary.

Problem	Possible Cause	Solution
Chain does not move.	Chain brake engaged; Chain too tight; Obstruction in chain path.	Disengage chain brake; Adjust chain tension; Remove obstruction (ensure chainsaw is unplugged).
Saw cuts slowly or poorly.	Dull chain; Incorrect chain tension; Insufficient oil.	Sharpen chain; Adjust chain tension; Fill oil reservoir.
Chain or bar overheats.	Insufficient chain oil; Chain too tight; Dull chain.	Fill oil reservoir; Adjust chain tension; Sharpen chain.
Excessive oil leakage.	Oil cap not sealed; Oiler system malfunction.	Ensure oil cap is tight; Inspect for cracks or damage; Consult service if persistent.

## 7. SPECIFICATIONS

Feature	Detail
Model Number	RM1645
Power Source	Corded Electric
Motor Amperage	12 Amp
Bar Length	16 inches
Chain Pitch	3/8 inch
Oil Capacity	9 oz
Oiler Type	Automatic
Item Weight	9.2 Pounds
Manufacturer	Remington
UPC	084931840669

## 8. WARRANTY AND SUPPORT

The Remington RM1645 Versa Saw Electric Chainsaw is backed by a **1 Year Limited Manufacturer Warranty**.

For warranty claims, technical support, or to purchase replacement parts, please contact Remington customer service. Keep your proof of purchase for warranty validation.

*Please refer to the official Remington website or your purchase documentation for the most current contact information and detailed warranty terms and conditions.*

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