

Tolsen TLSN-79614

Tolsen 20in Gasoline Chain Saw User Manual

Model: TLSN-79614

INTRODUCTION

This manual provides essential instructions for the safe and efficient operation, maintenance, and troubleshooting of your Tolsen 20in Gasoline Chain Saw (Model TLSN-79614). Please read this manual thoroughly before operating the chain saw to ensure proper use and to prevent injury or damage. The Tolsen 20in Gasoline Chain Saw is designed for cutting wood, such as felling small trees, limbing, and bucking. It features a powerful 52cc 2-stroke engine with a rated power of 2000W (2.6Hp) and a 20-inch cutting bar.



Figure 1: Tolsen 20in Gasoline Chain Saw. This image shows the complete chain saw assembly, highlighting its robust design and 20-inch bar.

General Safety Warnings

- Always wear appropriate personal protective equipment (PPE), including safety glasses, hearing protection, gloves, and sturdy footwear.

- Never operate the chain saw when fatigued, under the influence of alcohol, drugs, or medication.
- Keep bystanders, children, and animals at a safe distance from the work area.
- Inspect the chain saw before each use for any damage, loose parts, or fuel leaks.
- Ensure the chain brake is functional and engaged when starting the engine or moving between cuts.

SETUP AND ASSEMBLY

1. Unpacking and Component Check

Carefully remove all components from the packaging. Verify that all parts are present and undamaged. Refer to the parts diagram (not included in this text, but typically found in a physical manual) to identify each component.

2. Fuel Mixture Preparation

This chain saw uses a 2-stroke engine and requires a specific fuel-to-oil mixture. Use high-quality unleaded gasoline and a premium 2-stroke engine oil designed for air-cooled engines. Refer to the engine manufacturer's recommendations for the exact mixing ratio (typically 25:1 or 50:1, depending on oil type). The fuel tank capacity is 560ml.

- Mix fuel in a separate, approved fuel container.
- Shake the mixture thoroughly before pouring into the fuel tank.
- Always refuel in a well-ventilated area with the engine off and cool.

3. Chain and Guide Bar Installation

1. Ensure the chain brake is engaged.
2. Remove the side cover by loosening the nuts.
3. Place the guide bar onto the studs, ensuring the chain tensioner pin aligns with the hole in the bar.
4. Carefully fit the saw chain around the sprocket and into the guide bar groove. Ensure the cutting edges of the chain are facing the correct direction. The chain pitch is 3/8in (0.325in).
5. Replace the side cover and hand-tighten the nuts.
6. Adjust chain tension: The chain should be snug against the guide bar but still able to be pulled freely by hand. There should be no slack on the underside of the bar.
7. Tighten the side cover nuts securely.

4. Bar and Chain Oil

Fill the oil tank (capacity 260ml) with high-quality bar and chain oil. This oil lubricates the chain and guide bar during operation, reducing friction and wear. Do not use engine oil or waste oil.

OPERATING INSTRUCTIONS

1. Starting the Engine

The Tolsen chain saw features an easy starting system with an automatic choke.

1. Place the chain saw on a firm, flat surface. Ensure the chain brake is engaged.
2. Press the primer bulb several times until fuel is visible.
3. Set the choke lever to the "FULL CHOKE" position.
4. Pull the starter cord firmly and steadily until the engine fires (usually a few pulls).

5. Once the engine fires, immediately push the choke lever to the "HALF CHOKE" or "RUN" position.
6. Pull the starter cord again until the engine starts and runs smoothly.
7. Allow the engine to warm up for a few moments at idling speed (3200rpm \pm 5%).
8. Disengage the chain brake before beginning cutting operations.

2. Operating Safety Features

- **Safety Throttle Lever:** This lever prevents accidental acceleration. It must be depressed along with the main throttle trigger to engage the engine.
- **Rapid Reaction Chain Brake:** The chain brake is a crucial safety device designed to stop the chain instantly in the event of kickback or other emergencies. Always ensure it is functional before use.

3. Cutting Techniques

Always maintain a firm grip with both hands on the chain saw handles. Stand with your feet apart for good balance. Plan your cuts to avoid kickback and ensure the tree or limb falls in the intended direction.



Figure 2: Tolsen 20in Gasoline Chain Saw positioned for operation. This image illustrates the chain saw ready for use on the ground, demonstrating its practical application.

- **Felling:** Involves making a notch cut and a felling cut to direct the tree's fall. Requires careful planning and assessment of the tree's lean and surrounding area.
- **Limbing:** Removing branches from a felled tree. Work from the base of the tree towards the top, cutting smaller branches first.
- **Bucking:** Cutting a felled tree into sections. Support the log to prevent pinching the chain.

WARNING: Be aware of kickback. Kickback occurs when the moving chain at the tip of the guide bar contacts an object, or when the wood closes in and pinches the saw chain in the cut. This can cause a rapid, uncontrolled upward and backward movement of the guide bar towards the operator.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your chain saw. Always ensure the engine is off and cool, and the spark plug cap is disconnected before performing any maintenance.

1. Air Filter Cleaning

The chain saw is equipped with a long-life air filter that can be cleaned repeatedly. A dirty air filter reduces engine performance and increases fuel consumption.

1. Remove the air filter cover.
2. Carefully remove the air filter element.
3. Clean the filter by tapping it gently or using compressed air. For heavily soiled filters, wash with warm soapy water, rinse thoroughly, and allow to dry completely before reinstallation.
4. Reinstall the dry air filter and secure the cover.

2. Chain Sharpening and Tension

- **Sharpening:** A sharp chain is crucial for efficient and safe cutting. Sharpen the chain regularly using a round file of the correct diameter for the chain pitch (3/8in or 0.325in). Follow the manufacturer's recommended sharpening angles.
- **Tension:** Check chain tension frequently. A properly tensioned chain should be snug against the guide bar but still allow you to pull it around the bar by hand. Adjust as needed.

3. Spark Plug Inspection

Inspect the spark plug periodically. Clean any carbon deposits and check the electrode gap. Replace the spark plug if it is fouled or worn.

4. General Cleaning

After each use, clean the chain saw thoroughly. Remove sawdust, debris, and oil residue from the engine fins, air intake, and around the chain and guide bar. This prevents overheating and ensures proper operation.

TROUBLESHOOTING

This section addresses common issues you might encounter with your Tolsen chain saw.

Problem	Possible Cause	Solution
Engine does not start	No fuel or incorrect fuel mixture Choke not set correctly Spark plug fouled or faulty Chain brake engaged	Check fuel level and mixture Adjust choke lever Clean or replace spark plug Disengage chain brake
Engine runs, but chain does not move	Chain brake engaged Clutch issue Chain jammed	Disengage chain brake Consult a qualified service technician Clear any debris from around the chain and bar
Poor cutting performance	Dull chain Incorrect chain tension Insufficient bar and chain oil	Sharpen chain Adjust chain tension Fill oil tank with bar and chain oil

Problem	Possible Cause	Solution
Engine overheats	Dirty air filter Blocked cooling fins Incorrect fuel mixture	Clean air filter Clean cooling fins Ensure correct fuel-to-oil ratio

If you encounter problems not listed here or if solutions do not resolve the issue, please contact Tolsen customer support or a qualified service technician.

SPECIFICATIONS



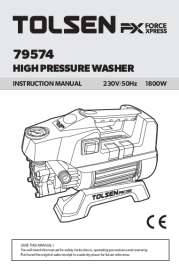



Feature	Detail
Brand	Tolsen
Model Number	TLSN-79614
Engine Capacity	52cc
Engine Type	Powerful 2-stroke engine
Rated Power	2000W / 2.6Hp
Idling Speed	3200rpm ±5%
Max. Cutting Diameter	500mm (20in)
Chain Pitch	3/8in (0.325in)
Fuel Tank Capacity	560ml
Oil Tank Capacity	260ml
Item Weight	7.65 Kilograms
Product Dimensions	50L x 26.5W x 30H centimeters
Key Features	Long life air filter, Easy starting - Automatic choke, Safety throttle lever, Rapid reaction chain brake

WARRANTY AND SUPPORT

For information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official Tolsen website. Keep your purchase receipt as proof of purchase.

For technical assistance, spare parts, or service inquiries, please contact Tolsen customer support. Contact details can typically be found on the product packaging or the official Tolsen website.

Related Documents - TLSN-79614

	<p>TOLSEN 87368 LI-ION CORDLESS MINI CHAIN SAW Instruction Manual</p> <p>This instruction manual provides essential safety information, operating procedures, and maintenance guidelines for the TOLSEN 87368 LI-ION CORDLESS MINI CHAIN SAW. Learn how to safely use, charge, and care for your TOLSEN cordless mini chainsaw.</p>
	<p>TOLSEN 79782 Vacuum Cleaner Instruction Manual</p> <p>Comprehensive instruction manual for the TOLSEN 79782 Vacuum Cleaner, covering safety, setup, operation, maintenance, and troubleshooting. Features 1000W power, 6-gallon capacity, and wet/dry functionality.</p>
	<p>TOLSEN 79574 High Pressure Washer Instruction Manual</p> <p>Comprehensive instruction manual for the TOLSEN 79574 High Pressure Washer, covering safety, setup, operation, maintenance, and troubleshooting. Features 1800W power and 230V/50Hz operation.</p>
	<p>TOLSEN 87316 Pistol de Lipici cu Topire la Cald Fără Fir 20V - Manual de Utilizare și Siguranță</p> <p>Ghid complet pentru pistolul de lipici TOLSEN 87316 20V Li-Ion, incluzând instrucțiuni de utilizare, măsuri de siguranță, specificații tehnice, întreținere și depanare.</p>
	<p>TOLSEN 35153 & 35154 Green-Beam Self-Leveling Laser Level User Manual & Specifications</p> <p>User manual and technical specifications for TOLSEN 35153 and 35154 green-beam self-leveling laser levels. Includes safety instructions, operating procedures, cleaning guidelines, and detailed technical data.</p>
	<p>TOLSEN 38034 Digital Clamp Meter: User Manual and Specifications</p> <p>Comprehensive guide to the TOLSEN 38034 Digital Clamp Meter, covering operation, specifications, safety, and maintenance for accurate electrical measurements.</p>

