

## WTHW WH5803

# WTHW WH5803 Gas Powered Chainsaw User Manual

Model: WH5803

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## 1. SAFETY INFORMATION

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Operating a chainsaw can be hazardous. Always prioritize safety to prevent serious injury. Read and understand all safety warnings and instructions before using the WTHW WH5803 chainsaw.

### 1.1 Personal Protective Equipment (PPE)

- **Head Protection:** Wear a safety helmet.
- **Eye Protection:** Always wear safety glasses or goggles.
- **Hearing Protection:** Use ear defenders or earplugs.
- **Hand Protection:** Wear heavy-duty work gloves.
- **Leg Protection:** Wear chainsaw protective trousers or chaps.
- **Foot Protection:** Wear steel-toed safety boots with good grip.

### 1.2 General Safety Rules

- Never operate the chainsaw when fatigued, under the influence of alcohol, drugs, or medication.
- Keep children, bystanders, and animals at a safe distance (at least 10 meters/33 feet) from the work area.
- Inspect the chainsaw before each use for loose parts, damage, or fuel leaks.
- Ensure the chain brake is functional.
- Operate the chainsaw only in well-ventilated areas.

### 1.3 Fuel Handling Safety

- Mix fuel outdoors or in a well-ventilated area.
- Use a 2-stroke engine oil and unleaded gasoline mixture as specified in the specifications section.
- Do not smoke or bring any flame near fuel.
- Wipe up any spilled fuel immediately.

- Store fuel in approved containers away from ignition sources.



Figure 1.1: Always wear appropriate personal protective equipment when operating the chainsaw.

## 2. PRODUCT COMPONENTS

Familiarize yourself with the various parts of your WTHW WH5803 chainsaw for safe and effective operation.



Figure 2.1: Labeled components of the WTHW WH5803 Chainsaw.

### Key Components:

- **Brake Handle:** Activates the inertial chain brake for safety.
- **Easy-Pull Starter Handle:** For manual engine starting.
- **Start Switch:** Controls engine ignition.
- **Air Filter:** Protects the engine from dust and debris.
- **Throttle Interlock:** Prevents accidental throttle engagement.
- **Throttle Trigger:** Controls engine speed.

- **Rear Handle:** Main grip for operating the chainsaw.
- **Fuel Tank:** Holds the gasoline-oil mixture.
- **Lubrication Oil Tank:** Holds chain lubricant.
- **Non-Slip Handle:** Provides secure grip.
- **Guide Bar:** Supports the cutting chain (interchangeable 18-inch and 20-inch).
- **Cutting Chain:** The cutting element of the chainsaw.



Figure 2.2: The WTHW WH5803 chainsaw comes with interchangeable 18-inch and 20-inch guide bars and chains.

### 3. SETUP AND ASSEMBLY

Proper assembly and preparation are crucial for safe and efficient operation.

#### 3.1 Guide Bar and Chain Installation

1. Ensure the engine is off and the chain brake is disengaged.
2. Remove the chain cover by loosening the two nuts.
3. Place the chain around the clutch drum, ensuring the cutting edges face forward on the top of the guide bar.
4. Fit the guide bar over the studs and align the chain with the groove in the guide bar.
5. Replace the chain cover, ensuring the chain tensioning pin engages with the hole in the guide bar. Hand-tighten the nuts.

### 3.2 Fuel and Oil Filling

- **Fuel:** Mix unleaded gasoline with high-quality 2-stroke engine oil at the ratio specified in the specifications section. Fill the fuel tank (550 ml capacity) carefully, avoiding spills.
- **Chain Oil:** Fill the chain oil tank (260 ml capacity) with appropriate bar and chain lubricant. This chainsaw features an automatic chain oiler.
- Always ensure caps are securely tightened after filling.

### 3.3 Chain Tensioning

- With the chain cover nuts slightly loose, use the included srench to adjust the chain tensioning screw.
- The chain is correctly tensioned when it can be pulled freely around the guide bar by hand, but the drive links are still seated in the guide bar groove. There should be no excessive slack.
- Once tensioned, fully tighten the chain cover nuts.

**POWERFUL  
AND  
UNHINDERED**



Figure 3.1: The chainsaw supports quick-switching between 18-inch and 20-inch guide bars.

## 4. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your WTHW WH5803 chainsaw.

### 4.1 Starting the Engine (Quick-Start Recoil)

1. Place the chainsaw on a firm, flat surface.
2. Engage the chain brake by pushing the brake handle forward.

3. Set the choke to the 'closed' position (for cold starts).
4. Press the primer bulb several times until fuel is visible.
5. Pull the starter handle firmly and smoothly until the engine fires (usually 1-3 pulls).
6. Once the engine fires, immediately push the choke to the 'open' position.
7. Pull the starter handle again until the engine runs smoothly.
8. Disengage the chain brake before cutting.

## **4.2 Cutting Techniques**

- Always maintain a firm grip with both hands on the chainsaw handles.
- Stand with your feet apart for good balance.
- Avoid cutting with the tip of the guide bar to prevent kickback.
- Plan your cuts to ensure the wood falls safely and does not trap the guide bar.
- Allow the chainsaw to reach full speed before beginning a cut.

## **4.3 Quick-Switch Bar System**

The WTHW WH5803 allows for quick interchangeability between the 18-inch and 20-inch guide bars. To switch bars, follow the guide bar and chain installation steps (Section 3.1), ensuring you use the corresponding chain for the chosen guide bar.

**18  
LBS**



**FOR MEN  
AND WOMEN**



*Quick stop*

**DESIGNED FOR COMFORT**

Figure 4.1: The WTHW WH5803 chainsaw is designed for efficient cutting of various wood sizes.

# 37% INCREASE IN CUTTING EFFICIENCY

The original nickel-plated forged engine saws the tree silky smooth and no longer jams the saw.



58CC Engine



9000RPM Idling Spee



2.5KW Output Power



3.5HP Horsepower



Multiple Protection

Figure 4.2: The 58cc engine provides robust power for demanding tasks.

## 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 specifications (Pitch: 0.325P, Gauge: 0.058G) for correct file size and angle.

## **5.2 Air Filter Cleaning**

- The centrifugal air filter should be cleaned after every 5-10 hours of operation, or more frequently in dusty conditions.
- Remove the air filter cover, take out the filter element, and clean it with warm soapy water or compressed air. Ensure it is completely dry before reinstallation.

## **5.3 Automatic Chain Oiler Check**

- Regularly check the chain oil level and refill as needed.
- Ensure the automatic oiler is functioning by observing oil spray from the chain tip when the engine is running at speed.

## **5.4 Spark Plug Inspection**

- Inspect the spark plug periodically for wear or carbon buildup. Clean or replace as necessary to ensure reliable starting and engine performance.

# PRODUCT DETAILS

Exquisite details have been created to optimize a wide range of functions, making it easier to use.



Figure 5.1: Key components like the quenched alloy chain and diaphragm carburetor require proper maintenance.

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter with your WTHW WH5803 chainsaw.

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Engine does not start	No fuel, incorrect choke setting, fouled spark plug, chain brake engaged.	Check fuel level, adjust choke, clean/replace spark plug, disengage chain brake.
Engine starts but stalls	Incorrect fuel mixture, clogged fuel filter, dirty air filter.	Verify fuel mixture, clean/replace fuel filter, clean air filter.
Chain does not cut efficiently	Dull chain, incorrect chain tension, chain installed backward.	Sharpen or replace chain, adjust chain tension, reinstall chain correctly.
No chain oil flow	Empty oil tank, clogged oil port, damaged oil pump.	Refill oil tank, clean oil port, contact service for pump issues.
Excessive vibration	Loose components, damaged chain or guide bar.	Check all fasteners, inspect chain and guide bar for damage.

## 7. TECHNICAL SPECIFICATIONS

Detailed specifications for the WTHW WH5803 Gas Powered Chainsaw.

Feature	Specification
Model Number	WH5803
Engine Displacement	58 cc
Power Source	Gas Powered
Horsepower	3.5 HP
Guide Bar Lengths	18 inch & 20 inch (Quick-Switch)
20-inch Chain Pitch	0.325P
20-inch Chain Gauge	0.058G
20-inch Chain Drive Links	76DL
18-inch Chain Pitch	0.325P
18-inch Chain Gauge	0.058G
18-inch Chain Drive Links	72DL
Fuel Tank Capacity	550 ml
Oil Tank Capacity	260 ml
Starting System	Quick-Start Recoil
Air Filtration	Centrifugal Air Filter
Chain Lubrication	Automatic Chain Oiler
Safety Features	Inertial Chain Brake, Low-Kickback Chain, Anti-Vibration System

Feature	Specification
Product Dimensions	50.8 x 40.64 x 25.4 cm
Item Weight	6.58 kg (14.5 lbs)

**GAS POWERED  
CHAINSAW**

**58CC**

**20IN+18IN**

**WTHAW**

**Precise Cutting**   **Powerful Cutting**   **Easy Operation**   **Efficient Cutting**

Figure 7.1: Product dimensions and included accessories.

## 8. WARRANTY AND SUPPORT

WTHW stands behind the quality of its products. For specific warranty details, please refer to the warranty card included with your purchase or visit the official WTHW website. If you encounter any issues or require technical assistance, please contact WTHW customer support through the contact information provided in your product packaging or on the brand's official channels.