

## Einhell GC-PC 2040 I

# Einhell GC-PC 2040 I Petrol Chainsaw User Manual

Model: GC-PC 2040 I

## INTRODUCTION

This user manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Einhell GC-PC 2040 I Petrol Chainsaw. Please read this manual thoroughly before operating the machine to ensure proper use and to prevent injury or damage.

The Einhell GC-PC 2040 I is a powerful 50cc petrol chainsaw designed for cutting wood, branches, and timber. It features an OREGON quality blade and chain, automatic chain lubrication, and anti-vibration technology for comfortable and safe use.

## SAFETY INSTRUCTIONS

Always prioritize safety when operating the chainsaw. Failure to follow these instructions can result in serious injury or death.

- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including a safety helmet with face shield, hearing protection, safety glasses, heavy-duty gloves, chainsaw protective trousers, and safety boots.
- **Work Area:** Ensure the work area is clear of obstacles, bystanders, and animals. Maintain a safe distance from others.
- **Fuel Handling:** Handle fuel in a well-ventilated area, away from ignition sources. Do not smoke while refueling.
- **Kickback Prevention:** Be aware of kickback risks. Always maintain a firm grip with both hands and avoid cutting with the tip of the guide bar.
- **Chain Brake:** Familiarize yourself with the immediate chain brake mechanism. Ensure it is functional before each use.
- **Inspection:** Before each use, inspect the chainsaw for any damage, loose parts, or fuel leaks. Do not operate a damaged chainsaw.
- **Weather Conditions:** Do not operate the chainsaw in adverse weather conditions, such as heavy rain, strong winds, or icy conditions.

## COMPONENTS OVERVIEW

Familiarize yourself with the main components of your Einhell GC-PC 2040 I Petrol Chainsaw.



Figure 1: Overview of the Einhell GC-PC 2040 I Petrol Chainsaw, showing the main body, guide bar, and chain.

- **Guide Bar:** The metal bar that supports and guides the saw chain. This model features a 40 cm (16 inch) guide bar.
- **Saw Chain:** The cutting chain that rotates around the guide bar.
- **Front Handle:** Provides a stable grip for the left hand during operation.
- **Rear Handle:** Contains the throttle trigger and provides a stable grip for the right hand.
- **Chain Brake/Hand Guard:** A safety device that stops the chain instantly in case of kickback. Also protects the hand.
- **Throttle Trigger:** Controls the engine speed and chain movement.
- **Throttle Trigger Lockout:** Prevents accidental activation of the throttle trigger.
- **Fuel Tank Cap:** For filling the fuel tank.
- **Oil Tank Cap:** For filling the chain oil tank.
- **Primer Bulb:** Assists in cold starting by priming the carburetor with fuel.
- **Choke Lever:** Used for cold starting the engine.
- **Starter Rope Handle:** For manually starting the engine.
- **Claw Stop:** A metal spike that helps to pivot the saw into the wood for more controlled cutting.

## SETUP

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### 1. Unpacking and Assembly

Carefully remove all components from the packaging. The chainsaw comes partially assembled. You will need to attach the guide bar and saw chain.

1. Place the chainsaw on a stable, flat surface.
2. Remove the chain cover by loosening the two nuts.
3. Mount the guide bar onto the studs, ensuring the chain tensioner pin fits into the hole on the guide bar.
4. Carefully place the saw chain around the sprocket and into the groove of the guide bar. Ensure the cutting edges of

the chain are facing the correct direction (refer to the arrow on the guide bar or chainsaw body).

5. Replace the chain cover and hand-tighten the nuts. Do not fully tighten yet.
6. Adjust the chain tension using the tensioning screw. The chain should be snug against the guide bar but still able to be pulled freely by hand. There should be no sag on the underside of the guide bar.
7. Once the tension is correct, fully tighten the chain cover nuts.

## 2. Fuel and Oil Filling

This chainsaw operates on a petrol-oil mixture and requires separate chain oil for lubrication.

- **Fuel Mixture:** Use a mixture of unleaded petrol and high-quality 2-stroke engine oil. The recommended mixing ratio is typically 1:40 (2.5% oil). Always refer to the specific ratio indicated in the chainsaw's manual or on the fuel cap. Use the provided mixing bottle for accurate measurement.
- **Chain Oil:** Fill the chain oil tank with biodegradable chain lubricant. Do not use waste oil or motor oil, as this can damage the pump and chain.



**Figure 2:** Diagram illustrating the automatic chain lubrication system, ensuring the chain receives sufficient oil during operation.

**Important:** Always fill both tanks before starting work. The automatic chain lubrication system ensures the chain is continuously oiled during operation.

## OPERATING INSTRUCTIONS

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### 1. Starting the Chainsaw (Cold Start)

1. Place the chainsaw on a firm, flat surface. Ensure the chain brake is engaged (pushed forward).
2. Press the primer bulb 5-10 times until fuel is visible in the return line.
3. Pull the choke lever out to the full choke position.
4. Hold the chainsaw firmly with one hand on the front handle and place your foot through the rear handle for stability.
5. Pull the starter rope handle slowly until resistance is felt, then pull sharply and quickly until the engine briefly fires (usually after 1-3 pulls).
6. Push the choke lever halfway in (half-choke position).
7. Pull the starter rope again until the engine starts.
8. Once the engine is running, immediately push the choke lever fully in. Allow the engine to warm up for a few seconds at idle.
9. Disengage the chain brake (pull back towards the front handle) before beginning to cut.

### 2. Starting the Chainsaw (Warm Start)

If the engine is warm, the choke may not be necessary. Simply engage the chain brake and pull the starter rope until the engine starts.

### 3. Cutting Techniques

Always maintain a balanced stance and firm grip on both handles. Let the chainsaw do the work; do not force it through the wood.



**Figure 3:** Proper technique for cutting a tree trunk close to the ground, demonstrating a stable and controlled posture.



**Figure 4:** Demonstrating cutting a log on a sawhorse, highlighting the use of the claw stop for stability.

- **Felling:** For felling trees, always plan your escape route and ensure no one is in the felling zone. Make a directional notch first, then the felling cut.
- **Limbing:** When limbing, work from the bottom up, removing smaller branches first. Be aware of branches under tension.
- **Bucking:** When cutting logs into sections, use a sawhorse or support the log to prevent pinching the guide bar. Use the metal claw stop for leverage and control.
- **Anti-Vibration System:** This chainsaw is equipped with an anti-vibration system to reduce operator fatigue.



**Figure 5:** Illustration highlighting the anti-vibration technology integrated into the chainsaw design for improved user comfort.

#### **4. Stopping the Chainsaw**

To stop the chainsaw, release the throttle trigger and engage the chain brake. For complete shutdown, turn the engine stop switch to the "OFF" position.



**Figure 6:** Visual representation of how to activate the immediate chain brake for emergency stops or when moving between cuts.

## MAINTENANCE

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Regular maintenance is crucial for the longevity and safe operation of your chainsaw.

### 1. Daily Maintenance (Before Each Use)

- Check chain tension.
- Check chain sharpness. Sharpen or replace if dull.
- Check chain lubrication by observing oil spray from the guide bar tip when running at half throttle.
- Inspect the guide bar for wear or damage.
- Clean the air filter.
- Check the chain brake for proper function.
- Inspect all nuts, bolts, and screws for tightness.

## 2. Regular Maintenance (After Each Use / Weekly)

- Clean the guide bar groove and oil holes.
- Clean the cooling fins on the engine.
- Check the spark plug and clean or replace if necessary.
- Clean the chain sprocket area.
- Empty and clean the fuel and oil tanks if storing for an extended period.

## 3. Chain Sharpening

A sharp chain is essential for efficient and safe cutting. Use a round file of the correct diameter (typically 4.0 mm for this chain type, but verify with chain specifications) and a filing guide. Sharpen each cutter evenly.

## TROUBLESHOOTING

Problem	Possible Cause	Solution
Engine does not start	No fuel; Incorrect choke setting; Fouled spark plug; Clogged fuel filter; Chain brake engaged.	Fill fuel tank; Adjust choke; Clean/replace spark plug; Clean/replace fuel filter; Disengage chain brake.
Engine starts but stalls	Incorrect fuel mixture; Clogged air filter; Carburetor adjustment needed.	Use correct fuel mixture; Clean air filter; Consult service center for carburetor adjustment.
Chain not moving	Chain brake engaged; Chain too tight; Damaged clutch.	Disengage chain brake; Adjust chain tension; Consult service center.
No chain oil flow	Oil tank empty; Clogged oil filter/passage; Damaged oil pump.	Fill oil tank; Clean oil filter/passage; Consult service center.
Excessive vibration	Loose components; Damaged chain/guide bar; Engine issues.	Check all fasteners; Inspect/replace chain/guide bar; Consult service center.

## SPECIFICATIONS

Feature	Specification
Model	Einhell GC-PC 2040 I
Engine Type	Air-cooled 2-stroke engine
Engine Displacement	50cc
Power Output	2 kW (2.7 HP)
Guide Bar Length	40 cm (16 inches)
Chain Speed	21 m/s
Fuel Mixture Ratio	1:40 (Petrol:2-stroke oil)
Weight	6.5 kg

Feature	Specification
Dimensions (L x W x H)	48 x 30 x 31.5 cm
Automatic Chain Lubrication	Yes
Chain Brake	Yes (Immediate)
Anti-Vibration System	Yes




## WARRANTY AND SUPPORT




Einhell products are designed for reliability and performance. For warranty information, please refer to the warranty card included with your product or visit the official Einhell website. The availability period for EU spare parts is 2 years. For technical support, spare parts, or service inquiries, please contact your authorized Einhell dealer or the Einhell customer service department. Keep your purchase receipt as proof of purchase for warranty claims.

**Manufacturer:** Einhell Germany AG

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## Related Documents - GC-PC 2040 I

	<p><a href="#">Einhell GC-PC 1535 I TC Petrol Chainsaw User Manual</a></p> <p>Comprehensive user manual for the Einhell GC-PC 1535 I TC petrol chainsaw, covering safety instructions, device description, intended use, technical data, pre-operation checks, operation, maintenance, and troubleshooting.</p>
	<p><a href="#">Einhell GC-EC 1835 Electric Chainsaw Operating Instructions</a></p> <p>This document provides operating instructions for the Einhell GC-EC 1835 electric chainsaw, covering safety precautions, device description, intended use, technical data, pre-operation checks, operation, and troubleshooting.</p>
	<p><a href="#">Einhell GC-MM 52 I AS Petrol Multifunctional Tool Operating Manual</a></p> <p>Official operating manual for the Einhell GC-MM 52 I AS Petrol Multifunctional Tool, covering safety instructions, assembly, operation, maintenance, and troubleshooting for garden use.</p>

	<p><a href="#">Einhell GC-SC 4240 P Benzin-Vertikutierer Bedienungsanleitung</a></p> <p>Offizielle Bedienungsanleitung für den Einhell GC-SC 4240 P Benzin-Vertikutierer. Enthält Sicherheitshinweise, technische Daten, Bedienungsanleitungen, Wartungstipps und Fehlerbehebung für die Rasenpflege.</p>
	<p><a href="#">Einhell GC-BC 36-4 S Benzin-Motorsense Bedienungsanleitung</a></p> <p>Umfassende Bedienungsanleitung für die Einhell GC-BC 36-4 S Benzin-Motorsense, inklusive Montage, Bedienung, Wartung und Sicherheitshinweisen.</p>
	<p><a href="#">Einhell GP-LCS 36/400 Li Cordless Chainsaw: Operating Instructions and Safety Guide</a></p> <p>Comprehensive operating instructions and safety guidelines for the Einhell GP-LCS 36/400 Li cordless chainsaw. Covers assembly, safe usage, maintenance, and troubleshooting for optimal performance and user safety.</p>