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> BILT HARD 18 Inch Gas Chainsaw Instruction Manual

BILT HARD TNA-0004

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MODEL: TNA-0004

1. INTRODUCTION

Thank you for choosing the BILT HARD 18 Inch Gas Chainsaw. This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your new chainsaw. Please read it thoroughly before initial use and keep it for future reference.



Image: BILT HARD 18 Inch Gas Chainsaw with included accessories.

The BILT HARD 18 Inch Gas Chainsaw is equipped with a powerful 46cc, 2-cycle gasoline engine delivering 2.4 HP, designed for various intricate and demanding wood cutting tasks. Its features include a recoil starter for easy pull starts, an 18-inch bar and chain for smooth cutting, an air cleaning system for longevity, and an automatic oiler for consistent lubrication. The user-focused design incorporates a lightweight, ergonomic body with an anti-vibration system, low kickback safety function, and an automatic, inertia-activated chain brake for enhanced safety.

Product Overview Video

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Video: A general overview of the BILT HARD Gas Powered Chainsaws, highlighting key features and capabilities.

2. SAFETY INFORMATION

WARNING: Failure to follow these safety instructions may result in serious injury or death.

2.1 General Safety Rules

- Always wear appropriate Personal Protective Equipment (PPE) including safety glasses, hearing protection, gloves, and sturdy footwear.
- Never operate the chainsaw when fatigued, under the influence of alcohol, drugs, or medication.

- Keep children, bystanders, and animals at least 50 feet (15 meters) away from the work area.
- Inspect the chainsaw before each use for loose parts, damage, or fuel leaks. Do not operate a damaged chainsaw.
- Ensure the work area is clear of obstacles, stable, and well-lit.

2.2 Kickback Safety

Kickback is a sudden upward and backward motion of the guide bar that can 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.

- Always hold the chainsaw firmly with both hands.
- Do not overreach or cut above shoulder height.
- Be aware of the guide bar tip position at all times.
- Ensure the chain brake is functional and engaged when not cutting.



Image: Demonstrating the chainsaw's low kickback design during operation.

3. COMPONENTS OVERVIEW

Familiarize yourself with the various parts of your BILT HARD Gas Chainsaw for safe and effective operation.



Image: Labeled diagram showing the main components of the chainsaw.

- **Saw Chain:** The cutting element of the chainsaw.
- **Guide Bar:** Supports and guides the saw chain.
- **Chain Brake:** Safety mechanism to stop the chain quickly.
- **Front Handle:** For stable two-hand operation.
- **Fuel Tank:** Holds the gasoline-oil mixture.
- **Chain Lubricant Oil Tank:** Holds bar and chain oil for automatic lubrication.
- **Chain Tension Adjuster:** Used to adjust chain tension.
- **Bumper Spike:** Provides leverage during cutting.
- **Primer Bulb:** Primes the carburetor for easier starting.
- **Switch Button:** On/Off switch for the engine.
- **Throttle Trigger:** Controls engine speed.
- **Throttle Trigger Lock:** Prevents accidental throttle engagement.
- **Choke Knob:** Used for cold starting.
- **Air Filter Cover:** Protects the air filter.
- **Starter Handle:** Used to pull start the engine.
- **Rear Handle:** For stable two-hand operation.

4. SETUP AND ASSEMBLY

4.1 Fuel and Oil Preparation

Your BILT HARD Chainsaw uses a 2-cycle engine and requires a specific gasoline-to-oil mixture. Use a 40:1 ratio of fuel to oil mix.



Image: Diagram illustrating the location of the fuel and chain lubricant oil tanks.

- Always use fresh, clean, unleaded gasoline.
- Use high-quality 2-cycle engine oil specifically designed for air-cooled engines.
- Mix the fuel and oil thoroughly in a separate, approved fuel container before pouring into the chainsaw's fuel tank.
- Fill the chain lubricant oil tank with premium bar and chain lubricant oil.

4.2 Bar and Chain Assembly

Follow these steps to properly install the guide bar and saw chain.

Assembly Guide Video

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Video: A step-by-step guide on how to assemble the gas chainsaw, including bar and chain installation.

1. Pull the front hand guard towards the front handle to disengage the chain brake.
2. Loosen and remove the bar nuts and the clutch cover from the saw.
3. Install the guide bar onto the studs.
4. Mount the chain on the pinion, ensuring the cutters face in the correct direction of rotation and the chain moves freely.
5. Check that the drive links of the chain fit correctly on the drive sprocket and that the chain is in the groove on the bar.
6. Fit the clutch cover. Adjust the chain tensioning screw so that the adjusting pin fits into the cut-out in the clutch cover.
7. Hand tighten the bar nuts finger-tight. DO NOT tighten completely at this stage.

5. OPERATION

5.1 Starting the Chainsaw

Proper starting procedure is crucial for both safety and engine longevity.

Chainsaw Starting Guide Video

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Video: A detailed guide on how to start the gas chainsaw, covering both cold and hot start procedures.

Cold Start Procedure:

1. Slowly press the primer bulb 6 to 10 times until fuel is visible.
2. Pull the blue choke lever out fully.
3. Push the hand guard forward to engage the chain brake.
4. Place your right foot in the rear handle for stability.
5. Using your right hand, pull the starter rope sharply 2-3 times until the engine briefly fires or sputters.
6. Push the blue choke lever in fully.
7. Set the red switch to position "I" (ON).
8. Pull the starter rope sharply again until the machine starts.
9. Once started, squeeze the throttle trigger to set normal idle.

Hot Start Procedure:

1. Set the red switch to position "I" (ON).
2. Place your right foot in the rear handle for stability.
3. Using your right hand, pull the starter rope sharply until the machine starts.
4. Once started, squeeze the throttle trigger to set normal idle.

5.2 Cutting Techniques

Always maintain a firm grip with both hands and ensure proper footing. Allow the chainsaw to reach full speed before beginning a cut.



Image: Chainsaw demonstrating powerful and efficient cutting through a log.

- **Bucking:** Cutting a fallen tree or log into sections. Ensure the log is stable and supported.
- **Limbing:** Removing branches from a fallen tree. Work from the base of the tree towards the top.
- **Felling:** Cutting down a standing tree. This is an advanced technique and should only be performed by experienced operators.

6. MAINTENANCE

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

6.1 Chain Tensioning

Proper chain tension is vital for safe and efficient cutting. A loose chain can derail, and an overly tight chain can cause excessive wear and damage.

Chain Tensioning and Replacement Video

Your browser does not support the video tag.

Video: Instructions on how to properly tension and replace the chainsaw chain.

1. DO NOT adjust the tension adjuster before loosening the fixing nuts.
2. Use the wrench to loosen the fixing nuts.

- Then use a flat-head screwdriver to adjust the tension adjuster until the gap between the chain and the upside of the guide bar is 1-3mm. The chain should fit snugly against the underside of the guide bar.
- Tighten the fixing nuts completely.
- The new chain may produce slight deformation when used. It needs to tighten the chain again after 10 minutes of first use.

6.2 Cleaning and Storage

- Clean the air filter regularly to maintain engine performance.
- Remove sawdust and debris from the guide bar groove and sprocket area.
- Store the chainsaw in a dry, well-ventilated area, away from direct sunlight and heat sources.
- Drain the fuel tank if storing for extended periods.

7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Engine won't start	No fuel, incorrect fuel mix, fouled spark plug, flooded engine, chain brake engaged.	Check fuel level/mix, clean/replace spark plug, follow de-flooding procedure, disengage chain brake.
Chainsaw cuts poorly	Dull chain, incorrect chain tension, worn guide bar.	Sharpen chain, adjust chain tension, replace guide bar.
Chain not oiling	Empty oil tank, clogged oil port, damaged oil pump.	Fill oil tank, clean oil port, consult service center.
Excessive vibration	Loose components, damaged chain/bar, worn anti-vibration mounts.	Check all fasteners, inspect chain/bar for damage, consult service center.

Table: Common troubleshooting issues and their solutions.

8. SPECIFICATIONS

Technical specifications for the BILT HARD 18 Inch Gas Chainsaw.



Image: Visual representation of key chainsaw specifications.

Feature	Specification
Brand	BILT HARD
Model Number	TNA-0004
Power Source	Gas Powered

Feature	Specification
Engine Displacement	46 cc
Horsepower	2.4 hp
Chain Length	18 Inches
Item Weight	12.13 Pounds
Product Dimensions (L x W x H)	33.8" x 9.4" x 11"
Fuel Mix Ratio	40:1 (Gasoline:2-Cycle Oil)

9. WARRANTY AND SUPPORT

For warranty information, please refer to the warranty card included with your product or visit the official BILT HARD website. Keep your proof of purchase for any warranty claims.

10. CUSTOMER SUPPORT

If you have any questions, require technical assistance, or need to order replacement parts, please contact BILT HARD customer support through the following channels:

- Visit the BILT HARD Store on Amazon:[BILT HARD Store](#)
- Refer to the contact information provided in your product packaging.