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> PROYAMA 40cc 4-Cycle Gas Tiller Cultivator PT400 Instruction Manual

## PROYAMA PT400

# PROYAMA 40cc 4-Cycle Gas Tiller Cultivator PT400 Instruction Manual

Model: PT400 | Brand: PROYAMA

## 1. INTRODUCTION

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This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your PROYAMA 40cc 4-Cycle Gas Tiller Cultivator (Model PT400). Please read this manual thoroughly before operating the equipment and keep it for future reference. This versatile 2-in-1 cultivator with an edger is designed for weeding, mixing, and aerating garden or flower bed soil, and for cleanly edging boundary surfaces.

## 2. SAFETY INFORMATION

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Always prioritize safety when operating power equipment. Failure to follow safety instructions can result in serious injury or property damage.

- Read and understand all instructions and safety warnings in this manual before use.
- Wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, gloves, and sturdy footwear.
- Ensure the work area is clear of bystanders, children, and pets.
- Never operate the tiller in wet conditions or on excessively steep slopes.
- Before performing any maintenance or adjustments, always turn off the engine and allow it to cool. Disconnect the spark plug wire to prevent accidental starting.
- Handle fuel with extreme care. Store fuel in an approved container in a well-ventilated area, away from ignition sources.
- Do not refuel a hot engine.
- Inspect the equipment for loose parts, damage, or wear before each use.

## 3. COMPONENTS OVERVIEW

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Familiarize yourself with the main parts of your PROYAMA Tiller Cultivator.



**Image 3.1:** Overview of the PROYAMA PT400 Tiller Cultivator, highlighting key components such as the 40cc single-cylinder 4-stroke engine, adjustable transport wheels, right control with throttle and stop switch, 32:1 ratio gearbox, and four 8.8-inch hardened steel tines.

- **40cc 4-Cycle Engine:** Provides power for tilling and edging.
- **Fuel Tank:** Holds gasoline.
- **Oil Fill Cap/Dipstick:** For checking and adding engine oil.
- **Starter Cord:** Used to manually start the engine.
- **Choke Lever:** Assists in starting a cold engine.
- **Throttle Control:** Adjusts engine speed.
- **Stop Switch:** Shuts off the engine.
- **Tines:** Hardened steel blades for cultivating and tilling soil.
- **Transport Wheels:** 8-inch flat-free wheels for easy maneuverability.
- **Edger Kit (Optional/Included):** Specialized blade for creating clean edges.

## 4. SETUP

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## 4.1 Assembly

Follow these steps to assemble your tiller cultivator. Refer to the assembly video for visual guidance.

1. Attach the handle assembly to the main unit. Secure with the provided fasteners.
2. Install the transport wheels. Ensure they are securely fastened for stability.
3. Connect the throttle cable and stop switch wiring according to the diagrams.

Your browser does not support the video tag.

**Video 4.1:** This video demonstrates the step-by-step assembly process for the PROYAMA 40cc 4-Stroke Cultivator, including attaching handles, wheels, and connecting controls.

## 4.2 Attaching the Edger Kit

The edger kit can be easily attached to transform your cultivator into an edger for clean boundary surfaces.

- Ensure the engine is off and cool.
- Remove the tines by detaching the retaining pins and washers.
- Slide the edger blade onto the shaft and secure it with the retaining pins and washers.
- Verify that the edger blade is firmly in place before operation.



### 4x8.8in Hardened Tines

Loosen soil and bust through weeds to create the perfect base for your garden (not suitable for breaking up hard, compact soil)

## PROYAMA

### Cultivator & Edger – designed to better your work

The Proyama PT400 4-cycle cultivator is a powerful and lightweight solution to maintaining your garden. The largest-in-class 40cc 4-Cycle engine requires no mixing of oil and fuel. It also produces less noise, and lower emissions. A variable speed control provides versatility when cultivating different soil types.



### Edger Kit For Cultivators

The Proyama Edger Kit for Cultivator easily attaches to any Proyama Cultivator, allowing the user to cleanly and efficiently edge boundary surfaces such as sidewalks and driveways.



### Adjustable Wheels

8 in flat-free wheels make it easy to move between jobs



### Depth Up To 8 Inches

Whether you're cultivating soil for a garden, planting a shrub or maintaining your lawn, this smart and sturdy design will get the job done



### 40cc 4-Stroke Engine

The largest-in-class 40cc 4-Cycle engine requires no mixing of oil and fuel. It also produces less noise, and lower emissions.

**Image 4.2:** Detailed view of the cultivator tines and the separate edger kit, illustrating how the edger attachment can be used for precise lawn and garden edging.

## 4.3 Adjusting Wheels

The 8-inch flat-free wheels are adjustable to suit different tilling depths and transport needs.

- To adjust the wheel height, locate the adjustment pins on the wheel assembly.
- Pull out the pins, slide the wheels to the desired height setting, and re-insert the pins securely.
- Higher wheel settings result in shallower tilling, while lower settings allow for deeper cultivation.

## 5. OPERATING INSTRUCTIONS

### 5.1 Fueling and Oiling

This 4-cycle engine requires no mixing of oil and fuel. Use fresh, unleaded gasoline and 4-cycle engine oil.

- **IMPORTANT:** When checking oil level or filling with oil, the engine must be tipped forward with the gas tank down.

- For first-time use, fill 4-cycle oil up to 80ML. Do not overfill.
- Fill the fuel tank with unleaded gasoline. Do not use E85 or mixed fuels.
- Wipe up any spilled fuel immediately.

## 5.2 Starting the Engine

Follow these steps to start your PROYAMA Tiller Cultivator. Refer to the starting video for visual guidance.

1. Ensure the fuel tank is filled and the oil level is correct.
2. Press the primer bulb several times until fuel is visible in the return line.
3. Move the choke lever to the "CHOKE" position.
4. Set the engine switch to the "ON" position.
5. Pull the starter cord firmly and smoothly until the engine starts.
6. Once the engine starts, gradually move the choke lever to the "RUN" position.
7. Allow the engine to warm up for a few moments before beginning operation.

Your browser does not support the video tag.

**Video 5.1:** This video provides a clear demonstration on how to properly start the PROYAMA 40cc 4-Stroke Cultivator, covering priming, choking, and pulling the starter cord.

## 5.3 Tilling and Cultivating

The tiller is ideal for weeding, mixing, and aerating garden soil. Adjust the wheel height to control tilling depth.

- Hold the handles firmly and engage the throttle.
- Allow the tines to penetrate the soil. Guide the tiller forward at a steady pace.
- For deeper cultivation, make multiple passes over the same area, gradually lowering the wheel height.
- Avoid forcing the tiller; let the tines do the work.



Image 5.2: The PROYAMA Tiller Cultivator being used to prepare soil for planting, demonstrating its effectiveness in breaking up and aerating garden beds.

## 5.4 Edging

When the edger kit is installed, the unit can create clean edges along sidewalks and driveways.

- Position the edger blade along the desired edge.
- Engage the throttle and guide the unit along the path, maintaining a consistent depth.
- Move slowly and steadily for best results.

## 6. MAINTENANCE

Regular maintenance ensures optimal performance and extends the life of your tiller cultivator. Always turn off the engine and disconnect the spark plug wire before performing any maintenance.

### 6.1 General Care

- Clean the unit after each use, removing soil, debris, and plant matter from the tines, engine, and housing.
- Store the tiller in a dry, well-ventilated area, away from direct sunlight and extreme temperatures.

## 6.2 Engine Maintenance

- **Oil Level Check:** Check the engine oil level before each use. Add 4-cycle oil as needed, ensuring the engine is tipped forward with the gas tank down for accurate measurement.
- **Oil Change:** Change the engine oil after the first 5 hours of operation, then every 25 hours or annually, whichever comes first.
- **Air Filter:** Inspect and clean the air filter regularly. Replace if damaged or excessively dirty.
- **Spark Plug:** Inspect the spark plug annually. Clean or replace as necessary.

## 6.3 Tine Care

- Inspect tines for wear or damage before each use. Replace worn or bent tines.
- Remove any tangled weeds or debris from the tines to prevent overheating and reduced performance.

## 7. TROUBLESHOOTING

This section addresses common issues you might encounter with your tiller cultivator.

Problem	Possible Cause	Solution
Engine does not start	No fuel, old fuel, incorrect choke position, spark plug issue, no oil.	Check fuel level, use fresh fuel, adjust choke, inspect/replace spark plug, ensure oil is filled to correct level. Refer to "Starting the Engine" section.
Engine runs poorly or stalls	Clogged air filter, stale fuel, dirty spark plug, carburetor issues.	Clean/replace air filter, drain and refill with fresh fuel, clean/replace spark plug. Consult a service technician if carburetor issues persist.
Tiller not cultivating effectively	Worn tines, incorrect tilling depth, tangled debris.	Inspect and replace worn tines, adjust wheel height for deeper tilling, clear debris from tines.
Excessive vibration	Loose components, bent tines, unbalanced wheels.	Check all fasteners, inspect tines for damage, ensure wheels are properly installed.

## 8. SPECIFICATIONS

Key technical specifications for the PROYAMA PT400 Gas Tiller Cultivator.

Feature	Detail
Brand	PROYAMA
Model Number	PT400
Engine Type	40cc 4-Cycle Gas Engine
Power Source	Gasoline
Max Power	1.5 HP
Engine Torque	1.6 FT-LB @ 5000 RPM
Tilling Width	6 inches (min), 12 inches (max)

Feature	Detail
Tilling Depth	Up to 8 inches
Tine Speed	250 RPM
Transport Wheels	8-inch flat-free
Wheel Diameter	7 inches
Net Weight	33 LB
UPC	795847768250

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or to purchase replacement parts, please contact PROYAMA customer service. Keep your purchase receipt and product model number (PT400) handy when contacting support.

Visit the official PROYAMA website for the most up-to-date information and contact details: [PROYAMA Store](#)

