



Manuals.plus /

› **Champion Power Equipment** /

› Champion Power Equipment 19-Inch Counter Rotating Rear Tine Tiller User Manual

Champion Power Equipment 100380

Champion Power Equipment 19-Inch Counter Rotating Rear Tine Tiller User Manual

Model: 100380

Brand: Champion Power Equipment

1. INTRODUCTION

This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your Champion Power Equipment 19-Inch Counter Rotating Rear Tine Tiller. Please read this manual thoroughly before operating the equipment to ensure proper use and to prevent injury or damage.

The Champion 19-Inch Rear Tine Tiller is designed to efficiently prepare soil for gardening and landscaping tasks. Its powerful engine and counter-rotating tines make it suitable for breaking new ground, aerating soil, mixing amendments, and cultivating between rows.

2. IMPORTANT SAFETY INFORMATION

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

- Always keep away from people and animals while operating the tiller.
- Use extreme caution when handling fuel and oil. Ensure proper ventilation and avoid open flames.
- Operate the tiller only on stable, even terrain. Avoid steep slopes or uneven surfaces that could cause the machine to tip.
- Wear appropriate personal protective equipment (PPE), including sturdy footwear, eye protection, and hearing protection.
- Before performing any maintenance or clearing debris, always turn off the engine and disconnect the spark plug wire.
- Do not allow children or untrained individuals to operate the tiller.

3. PRODUCT COMPONENTS

Familiarize yourself with the main components of your tiller:



Figure 3.2: Side view of the tiller, showing the engine, handle assembly, and the rear tines with their protective shield.



Figure 3.3: Close-up view of the 13.8-inch hardened steel tines, designed for efficient soil shredding.








TYPE	ROTATION	PRIMARY OPERATION		SECONDARY OPERATION	
		Tines	Wheels	Tines	Wheels
Cultivator	Standard (SRT)	 Forward	×	×	
Front Tine Tiller	Dual (DRT)	 Forward	×	 Reverse	×
Rear Tine Tiller	Counter (CRT)	 Reverse	 Forward	 Forward	 Reverse

Figure 3.4: Chart illustrating different tiller types and their rotation mechanisms, including Counter Rotating Rear Tine (CRT) for deep tilling.

4. SETUP AND ASSEMBLY

Your Champion Tiller requires some assembly before first use. Follow these general steps:

1. Unpack all components from the shipping carton.
2. Attach the handle assembly to the main unit, securing it with the provided hardware.
3. Connect all control cables (throttle, forward/reverse) according to the diagrams in the separate assembly guide.
4. Ensure all bolts and fasteners are tightened securely before adding fluids.
5. Add engine oil (0.6-quart capacity, 10W-30 recommended) and gasoline (0.9 gallons capacity) to their respective reservoirs. Refer to the engine manual for specific oil and fuel requirements.

Note: A detailed assembly guide is included with your product. Please refer to it for step-by-step instructions and diagrams.

5. OPERATING INSTRUCTIONS

This section covers the basic operation of your tiller.

5.1 Starting the Tiller

1. Ensure the fuel valve is open and the engine switch is in the "ON" position.
2. If the engine is cold, apply the choke.
3. Pull the recoil starter handle firmly until the engine starts.
4. Once started, gradually open the choke as the engine warms up.

5.2 Tilling Operation

The tiller features counter-rotating tines and self-propelled agricultural tires for efficient tilling.

- To move forward and engage the tines, hold down the right-hand handle control. The self-propelled wheels will assist in moving the tiller forward.
- To move backward, pull the left-hand trigger control.
- Adjust the tilling depth using the easy-adjust depth gauge at the rear of the tiller. This allows for consistent depth and improved balance.
- For best results, make multiple passes over tough or virgin soil, gradually increasing the tilling depth with each pass.

Your browser does not support the video tag.

Video 5.1: Official product video demonstrating the 19-Inch Counter Rotating Rear Tine Tiller in operation, showcasing its self-propelled movement and tilling capabilities in various soil conditions.

6. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your tiller.

- **Engine Oil:** Check oil level before each use and change according to the engine manual's schedule. Use recommended 10W-30 oil.
- **Air Filter:** Inspect and clean the air filter regularly, especially in dusty conditions. Replace if damaged.
- **Spark Plug:** Inspect and clean the spark plug periodically. Replace if worn or fouled.
- **Tines:** Regularly inspect tines for wear or damage. Clear any tangled roots, weeds, or debris from the tines and axle after each use.
- **Fuel:** Use fresh, clean gasoline. For long-term storage, drain the fuel tank or use a fuel stabilizer.
- **General Cleaning:** Keep the tiller clean from dirt and debris. Wipe down the engine and frame.

7. TROUBLESHOOTING

Here are some common issues and their potential solutions:

Problem	Possible Cause	Solution
Engine does not start	No fuel; Engine switch OFF; Choke not set; Old fuel; Fouled spark plug; Low oil.	Add fresh fuel; Turn engine switch ON; Set choke for cold start; Drain old fuel and refill; Clean/replace spark plug; Add oil to proper level.
Tiller not tilling effectively	Tines clogged with debris; Tines worn; Depth gauge set too high.	Clear debris from tines (engine OFF!); Replace worn tines; Adjust depth gauge lower.
Excessive vibration	Debris wrapped around tines/axle; Loose components.	Clear debris from tines/axle (engine OFF!); Check and tighten all fasteners.

If issues persist, contact Champion Power Equipment customer support.

8. SPECIFICATIONS

Feature	Detail
Brand	Champion Power Equipment
Model Number	100380
Engine Displacement	212cc
Tilling Width	19 inches
Tilling Depth	Up to 8 inches
Tine Type	Counter Rotating Rear Tine (CRT)
Tine Size	13.8-inch hardened steel
Tire Size	13-inch agricultural tires
Power Source	Gasoline
Fuel Capacity	0.9 gallons
Oil Capacity	0.6 quarts (10W-30 recommended)
Item Weight	160.9 pounds
Product Dimensions	58.7"D x 19.7"W x 49.6"H
UPC	817198020051

9. WARRANTY AND SUPPORT

Champion Power Equipment stands behind its products with comprehensive support.

- **Warranty:** This product includes a 2-year limited warranty.
- **Technical Support:** Enjoy free lifetime technical support from dedicated experts.
- **Service Centers:** Champion Power Equipment has a nationwide network of service centers for product support and repairs.
- For customer support, please refer to the contact information provided in your product packaging or visit the official Champion Power Equipment website.