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Mantis 7920

Mantis 7920 2-Cycle Plus Tiller / Cultivator Sure-Grip Handles Instruction Manual

1. Introduction

This manual provides essential information for the safe and effective operation and maintenance of your Mantis 7920 2-Cycle Plus Tiller / Cultivator with Sure-Grip handles. Please read and understand all instructions before using the product. This tiller is designed for various tilling and cultivating needs in gardens and outdoor spaces.



Figure 1: The Mantis 7920 2-Cycle Plus Tiller / Cultivator, showcasing its compact design and Sure-Grip handles.

2. Safety Information

WARNING: Improper use or care of this tiller or failure to wear proper protection can result in serious injury. Read and understand the rules for safe operation and all instructions in this manual. Wear hearing and eye protection.

- Always wear appropriate personal protective equipment (PPE), including eye protection, hearing protection, and sturdy footwear.
- Ensure the work area is clear of debris, rocks, and other obstacles before operation.
- Keep bystanders, especially children and pets, at a safe distance from the operating tiller.
- Never operate the tiller in wet conditions or on excessively steep slopes.
- Before performing any maintenance or adjustments, always turn off the engine and disconnect the spark plug wire.

3. Product Features

- **Powerful 2-Cycle Engine:** Commercial-grade engine for efficient tilling and cultivating.
- **Sure-Grip Handles:** Ergonomically designed for comfortable and secure operation.
- **Lightweight Design:** Entire unit weighs only 20 pounds, enhancing maneuverability.
- **Fold-Down Handlebars:** For easy storage and transport.
- **Patented Serpentine Tines:** Guaranteed for the lifetime of the unit against breakage, providing 10-inch tine depth.
- **Easy Starting:** Features push-button priming and a convenient on/off switch.



Figure 2: A close-up of the Sure-Grip handles on the Mantis 7920 Tiller, designed for comfortable and secure operation.

4. Assembly

The Mantis 7920 Tiller is designed for straightforward assembly. Follow these general steps:

1. **Unpack Components:** Carefully remove all parts from the packaging and lay them out.
2. **Attach Handlebars:** Secure the Sure-Grip handlebars to the main unit using the provided fasteners. Ensure they are tightened securely.
3. **Connect Cables:** Route and connect the throttle and kill switch cables according to the diagrams in the detailed manual.
4. **Inspect Tines:** Verify that the serpentine tines are correctly installed and secured.
5. **Fuel and Oil:** Fill the fuel tank with the appropriate 2-cycle fuel mixture and check the oil level as per engine specifications.



Figure 3: Front perspective of the Mantis 7920 Tiller, detailing the engine housing and the robust tines designed for soil cultivation.

5. Operating Instructions

1. **Fueling:** Use a fresh 2-cycle fuel mixture (gasoline and 2-cycle oil at the recommended ratio).
2. **Starting the Engine:**
    - Ensure the on/off switch is in the 'ON' position.
    - Press the primer bulb several times until fuel is visible.
    - Set the choke to the 'CLOSED' position (for cold starts).
    - Pull the starter rope firmly until the engine attempts to start.
    - Once it sputters, move the choke to the 'OPEN' position and pull the starter rope again until the engine runs smoothly.

3. **Tilling:** Hold the Sure-Grip handles firmly. Engage the throttle to start the tines rotating. Guide the tiller over the soil, allowing the tines to penetrate. For deeper tilling, make multiple passes or pull the tiller backward.
4. **Stopping the Engine:** Release the throttle and move the on/off switch to the 'OFF' position.



Figure 4: The Mantis 7920 Tiller actively cultivating soil in a garden, demonstrating its effectiveness in breaking up earth.

▶ **Watch video online**
Mantis Gas Tiller Sales Video

Video 1: This official video provides a visual guide to the Mantis Gas Tiller, showcasing its assembly, starting procedure, and various applications in a garden setting. It highlights the tiller's ease of use and effectiveness in preparing soil.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Mantis Tiller.

- **Clean After Each Use:** Remove soil, debris, and plant matter from the tines and engine housing.
- **Check Tines:** Regularly inspect tines for wear, damage, or entanglement. Replace worn or damaged tines promptly.

- **Air Filter:** Clean or replace the air filter as recommended in the engine manual.
- **Spark Plug:** Inspect and clean the spark plug periodically. Replace if worn or fouled.
- **Fuel System:** Drain the fuel system before long-term storage to prevent fuel degradation issues.



Figure 5: A detailed view of the patented serpentine tines of the Mantis 7920 Tiller, engineered for efficient and deep soil penetration.

7. Troubleshooting

- **Engine Fails to Start:**
  - Check fuel level and ensure fresh fuel mixture.
  - Verify spark plug connection and condition.
  - Ensure choke is set correctly for starting.
- **Loss of Power During Operation:**
  - Clean or replace the air filter.
  - Check for clogged fuel lines or carburetor.

- Ensure tines are not entangled with debris.

- **Excessive Vibration:**
  - Inspect tines for damage or imbalance.
  - Check for loose fasteners on the unit.

8. Specifications

Attribute	Value
Brand	Mantis
Model Number	7920
Power Source	Gas Powered (2-Cycle)
Item Weight	20 Pounds
Product Dimensions	54"D x 13"W x 40"H
Tine Depth	10 inches
Material	Metal, Plastic
Color	Red
Operation Mode	Manual

9. Warranty and Support

The Mantis 7920 2-Cycle Plus Tiller / Cultivator comes with a**2-year limited warranty**. For warranty claims, technical support, or to order replacement parts, please refer to the contact information provided in your product packaging or visit the official Mantis website.

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