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› BOUDECH 196cc 6.5HP Tiller Cultivator User Manual

## BOUDECH 6-W-DIT-MUXT-AV

# BOUDECH 196cc 6.5HP Tiller Cultivator User Manual

Model: 6-W-DIT-MUXT-AV

## 1. IMPORTANT SAFETY INFORMATION

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Read and understand all safety warnings and instructions before operating this tiller cultivator. Failure to follow these instructions may result in serious injury or death.

- **Personal Protective Equipment:** Always wear appropriate safety gear, including eye protection, hearing protection, sturdy footwear, and gloves.
- **Fuel Safety:** Handle gasoline with extreme care. Store fuel in approved containers, away from ignition sources. Refuel outdoors in a well-ventilated area with the engine off and cool. Do not smoke while refueling.
- **Moving Parts:** Keep hands, feet, and clothing away from rotating tines and other moving parts. Ensure the engine is off and parts have stopped moving before performing any adjustments or maintenance.
- **Work Area:** Clear the work area of debris, rocks, and other objects that could be thrown by the tines. Keep bystanders, especially children and pets, at a safe distance.
- **Slope Operation:** Exercise extreme caution when operating on slopes. Till across the face of slopes, not up and down. Avoid excessively steep slopes.
- **Engine Exhaust:** Operate the engine in a well-ventilated area. Engine exhaust contains carbon monoxide, which is a colorless, odorless, and deadly gas.
- **Maintenance:** Perform all maintenance as described in this manual. Disconnect the spark plug wire before performing any service or maintenance to prevent accidental starting.

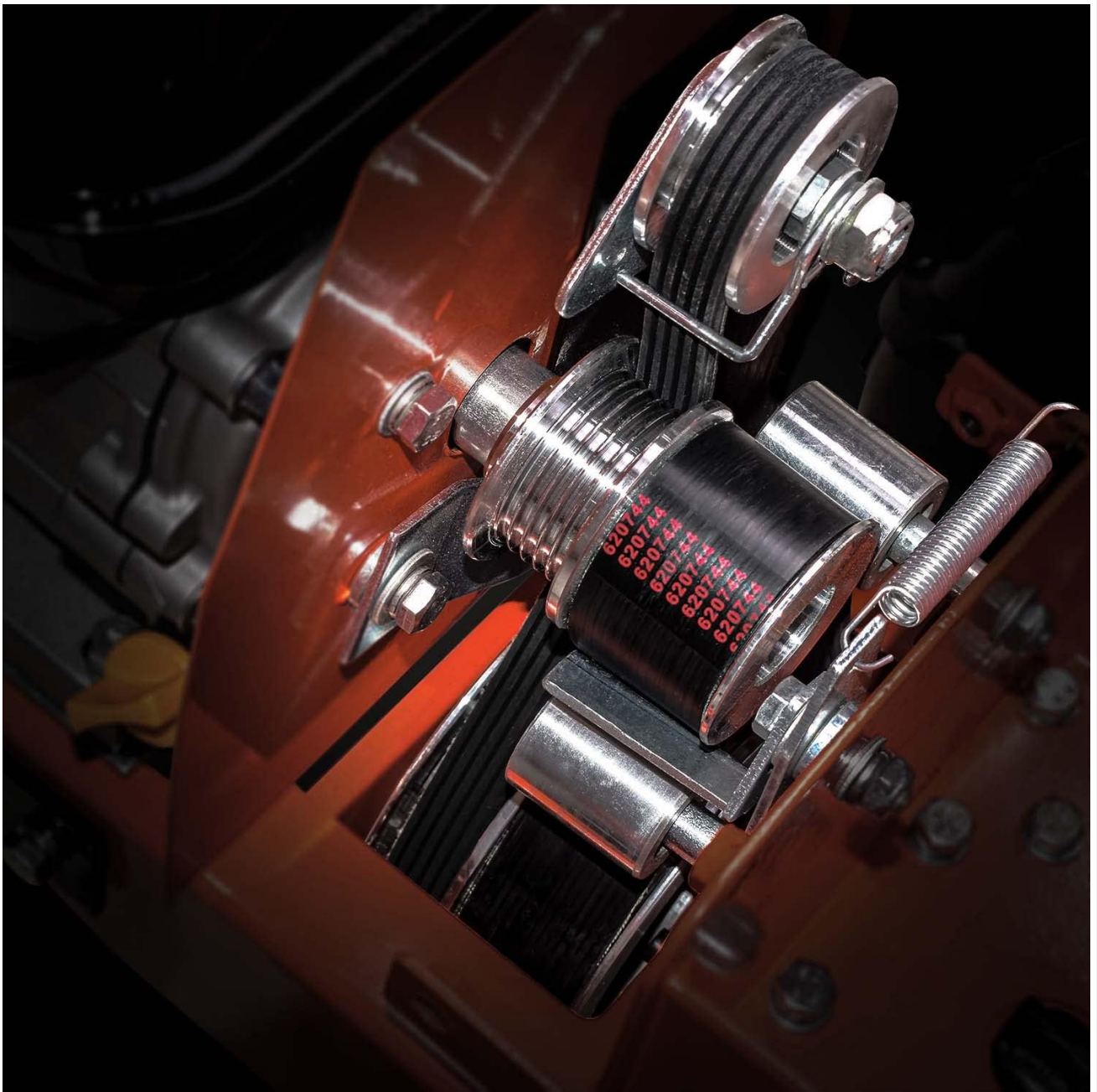
## 2. PRODUCT OVERVIEW AND COMPONENTS

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The BOUDECH 196cc 6.5HP Tiller Cultivator is designed for preparing soil for planting, weeding, and general garden maintenance. Familiarize yourself with its main components.



Overall view of the BOUDECH 196cc 6.5HP Tiller Cultivator.



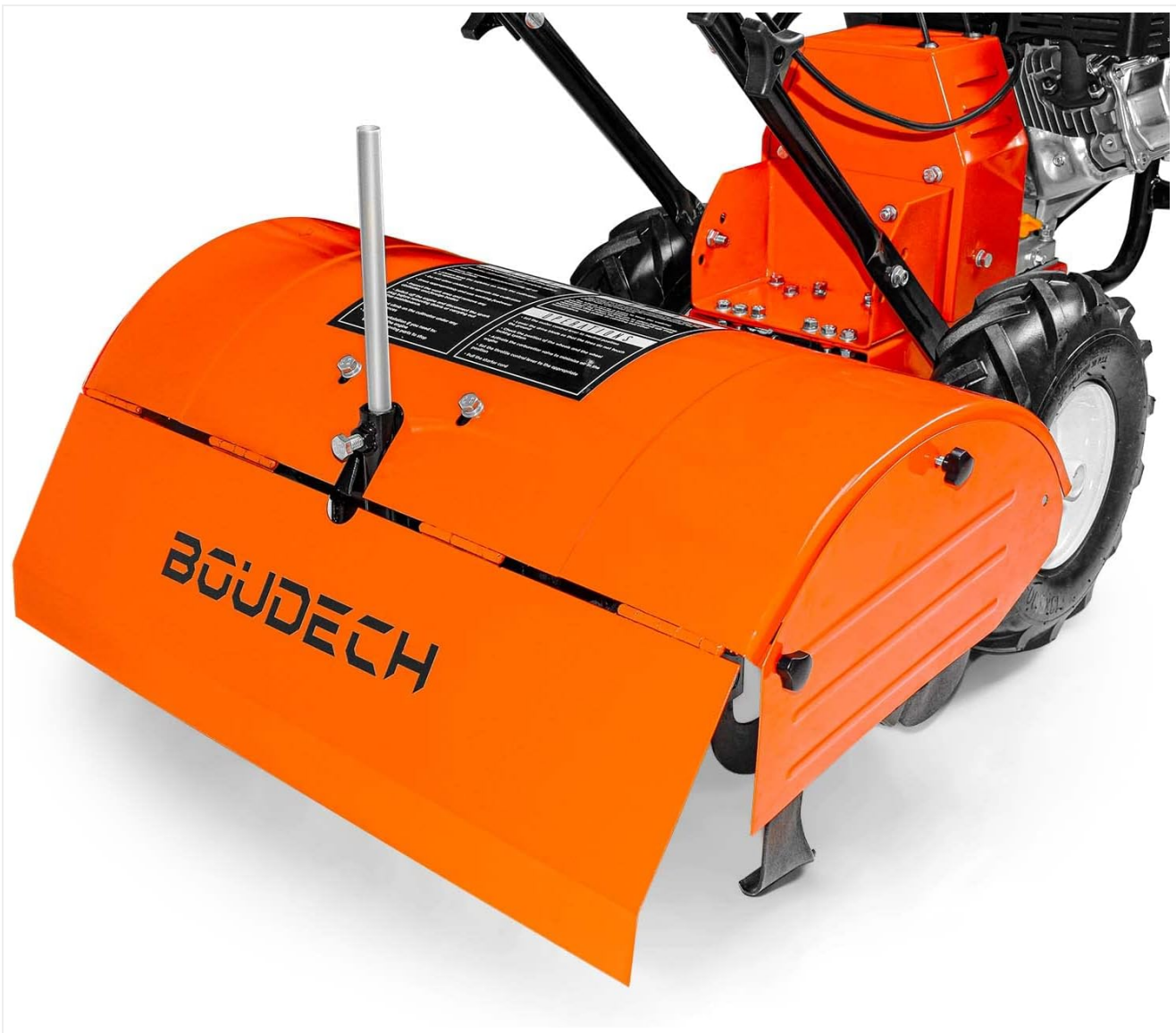
Side view highlighting the engine and tines.



Close-up of the engine cover, indicating 6.5 horsepower.



Detail of the engine, showing the OHV (Overhead Valve) design.



View of the robust tines and the orange protective shield.

### 3. SETUP AND ASSEMBLY

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Your tiller cultivator may require some assembly before first use. Follow these general steps for assembly. Refer to the included assembly diagram for specific part identification.

#### Unpacking

- Carefully remove all components from the packaging.
- Check for any damage during shipping. Contact your dealer if any parts are damaged or missing.
- Ensure all packing materials are removed from the unit.

#### Handlebar Assembly

- Attach the lower handlebars to the main frame using the provided bolts and nuts.
- Secure the upper handlebars to the lower handlebars, ensuring all control cables are routed correctly and not pinched.

#### Wheel and Tine Assembly

- Mount the transport wheels to their respective axles, securing them with pins or bolts.
- Attach the tines to the tine shaft, ensuring they are oriented correctly for proper rotation. Use the provided

fasteners to secure them firmly.



Dimensional drawing of the tiller, showing approximate overall dimensions (Length: 140cm, Width: 75cm, Height: 60cm).

## 4. OPERATING INSTRUCTIONS

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Follow these steps for safe and effective operation of your tiller cultivator.

### Pre-Operation Checks

- **Fuel Level:** Check the fuel tank. Fill with fresh, unleaded gasoline if necessary. Do not overfill.
- **Engine Oil Level:** Check the engine oil dipstick. Add recommended engine oil if the level is low. Refer to the engine manual for oil type and capacity.
- **Air Filter:** Ensure the air filter is clean and properly installed.
- **Fasteners:** Verify that all nuts, bolts, and screws are tight.

### Starting the Engine

1. Move the tiller to a level, open area.
2. Turn the fuel valve to the 'ON' position.
3. Move the choke lever to the 'FULL CHOKE' position (for cold starts).
4. Move the throttle lever to the 'FAST' position.
5. Grasp the starter rope handle firmly and pull it slowly until resistance is felt, then pull quickly and smoothly. Repeat until the engine starts.
6. Once the engine starts, gradually move the choke lever to the 'OFF' position as the engine warms up.

### Tilling Operation

- Adjust the tilling depth using the depth stake or wheel adjustment mechanism. For initial passes, set a shallower depth.
- Engage the tines. The tiller will pull itself forward. Guide it steadily.
- Overlap each pass slightly to ensure complete coverage.
- For deeper tilling, make multiple passes, increasing the depth with each pass.

### Stopping the Engine

- Move the throttle lever to the 'SLOW' or 'IDLE' position.
- Move the engine switch to the 'OFF' position.
- Turn the fuel valve to the 'OFF' position.

## 5. MAINTENANCE

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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.

### Engine Oil Change

- Change the engine oil after the first 5 hours of operation, then every 25-50 hours or annually, whichever comes first.
- Drain old oil when the engine is warm. Refill with the recommended type and amount of new oil.

## Air Filter Cleaning/Replacement

Clean the air filter every 50 hours of use or more frequently in dusty conditions.

1. Remove the air filter cover.
2. Carefully remove the foam and paper filter elements.
3. Clean foam elements with warm, soapy water, rinse, and allow to dry completely. Lightly oil foam elements before reinstallation.
4. Tap paper elements to remove loose dirt. Replace if heavily soiled or damaged.
5. Reassemble the air filter and cover.



Exploded view showing the air filter cover, foam filter element, and base for cleaning and replacement.

## Spark Plug Inspection

- Inspect the spark plug annually or every 100 hours.
- Clean carbon deposits and check the electrode gap. Replace if worn or fouled.

## Tine Maintenance

- After each use, clean soil and debris from the tines.
- Inspect tines for wear, damage, or bending. Replace worn tines to maintain tilling efficiency.



View of the belt and pulley system, which should be inspected periodically for wear and tension.

## Storage

- For long-term storage, drain the fuel tank or add a fuel stabilizer.
- Clean the entire machine thoroughly.
- Store in a dry, protected area.

## 6. TROUBLESHOOTING

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This section provides solutions to common operational issues. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Engine will not start	No fuel; stale fuel; spark plug issue; choke not set correctly; low oil level	Check fuel level; use fresh fuel; inspect/clean/replace spark plug; adjust choke; check oil level and add if low.
Engine runs poorly or lacks power	Dirty air filter; stale fuel; incorrect throttle setting; spark plug issue	Clean or replace air filter; use fresh fuel; adjust throttle; inspect/clean/replace spark plug.
Tiller not cultivating effectively	Worn or bent tines; incorrect tilling depth; soil too hard	Inspect and replace worn tines; adjust tilling depth; make multiple passes or pre-water hard soil.
Excessive vibration	Loose fasteners; bent tines; debris wrapped around tines	Check and tighten all fasteners; inspect tines for damage and replace if necessary; clear any debris from tines.

## 7. SPECIFICATIONS

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Key technical specifications for the BOUDECH Tiller Cultivator Model 6-W-DIT-MUXT-AV.

- **Model Number:** 6-W-DIT-MUXT-AV
- **Engine Type:** 4-stroke, Gasoline Engine
- **Engine Displacement:** 196 cc
- **Engine Power:** 6.5 HP
- **Working Width:** 70 cm
- **Tilling Depth:** 35 cm
- **Product Dimensions (L x W x H):** 140 x 75 x 60 cm (approximate, based on diagram)
- **Material:** Metal
- **Item Weight:** 68 kg
- **Power Source:** Gasoline Engine

## 8. WARRANTY AND SUPPORT

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This product is covered by a manufacturer's warranty against defects in materials and workmanship. Please refer to your purchase documentation for specific warranty terms and duration.

### Customer Support

For technical assistance, spare parts, or warranty claims, please contact your retailer or the BOUDECH customer service department. Have your model number (6-W-DIT-MUXT-AV) and purchase date available when contacting support.

*Contact information for support is typically provided with your purchase receipt or on the manufacturer's official website.*