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› [Powerhorse](#) /

› [Powerhorse OHV Horizontal Engine - 212cc, 6 HP, 3/4in. x 2 7/16in. Shaft User Manual](#)

Powerhorse 3250128

Powerhorse OHV Horizontal Engine User Manual

Model: 3250128

1. INTRODUCTION

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your Powerhorse OHV Horizontal Engine. Please read this manual thoroughly before operating the engine to ensure proper use and to prevent injury or damage.

The Powerhorse 212cc OHV Horizontal Engine is designed to provide reliable power for various equipment, featuring a robust 212cc, 6 HP design with 9 ft.-lbs. Gross Torque. Key features include a cast iron cylinder sleeve for durability, dual ball bearings, a forged-steel crankshaft, and a CDI ignition system with recoil start.



Figure 1: Front view of the Powerhorse 212cc OHV Horizontal Engine.

2. SAFETY INFORMATION

Always prioritize safety when operating or maintaining the engine. Failure to follow safety instructions can result in serious injury or death.

- **Read the Manual:** Understand all instructions and warnings before use.
- **Ventilation:** Operate the engine in a well-ventilated area to avoid carbon monoxide poisoning.
- **Fuel Handling:** Handle fuel with extreme care. Fuel is highly flammable. Store in approved containers.
- **Hot Surfaces:** The engine and exhaust system become very hot during operation and remain hot for a period after shutdown. Avoid contact.
- **Low Oil Shutdown:** The engine is equipped with a low oil shutdown system to prevent damage. Do not bypass this safety feature.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, such as safety glasses and gloves, when operating or servicing the engine.

3. SETUP AND INSTALLATION

Before starting the engine, ensure it is properly installed and all necessary fluids are at the correct levels.

1. **Mounting:** Securely mount the engine to a stable, level surface using appropriate hardware. Ensure proper alignment with the driven equipment.

2. **Add Engine Oil:** Fill the crankcase with the recommended type and amount of engine oil. The engine features a low oil shutdown system, so proper oil level is critical for operation and engine protection. Refer to the oil fill cap for recommended oil type.
3. **Add Fuel:** Fill the fuel tank with fresh, clean gasoline. Do not overfill. Ensure the fuel cap is securely tightened.
4. **Air Filter Check:** Verify the air filter is clean and properly installed. The air filter is crucial for engine longevity.



212CC, 6 HP

POWERFUL

Figure 2: Engine showing the air filter housing and label indicating cleaning frequency.

4. OPERATING INSTRUCTIONS

Follow these steps to start and operate your Powerhorse engine.

1. **Fuel Valve:** Open the fuel valve (if equipped).
2. **Choke:** Move the choke lever to the 'CHOKE' position if starting a cold engine. For a warm engine, the choke may not be necessary.
3. **Engine Switch:** Move the engine ON/OFF switch to the 'ON' position.

4. **Start:** Pull the recoil starter handle firmly and smoothly until the engine starts. The recoil start features a compression release for easier starting.
5. **Choke Adjustment:** Once the engine starts, gradually move the choke lever to the 'RUN' position as the engine warms up.
6. **Throttle:** Adjust the throttle lever to the desired engine speed.

To stop the engine, move the engine ON/OFF switch to the 'OFF' position and close the fuel valve.



Figure 3: Engine highlighting the low oil shutdown and recoil start features.

5. MAINTENANCE

Regular maintenance is essential for the longevity and optimal performance of your engine.

- **Engine Oil:** Check oil level before each use. Change engine oil after the first 5 hours of operation, then every 50 hours or annually, whichever comes first.
- **Air Filter:** Clean the air filter every 50 hours of use, or more frequently in dusty conditions. Replace if damaged.
- **Spark Plug:** Inspect the spark plug annually or every 100 hours. Clean or replace as needed.
- **Fuel System:** Drain the fuel tank and carburetor if storing the engine for an extended period (over 30 days) to prevent fuel degradation.

- **General Cleaning:** Keep the engine clean, especially cooling fins, to prevent overheating.

6. TROUBLESHOOTING

This section provides solutions for common operational issues.

Problem	Possible Cause	Solution
Engine will not start	No fuel; Low oil level; Engine switch OFF; Choke incorrect; Fouled spark plug	Add fuel; Add oil; Turn switch ON; Adjust choke; Clean/replace spark plug
Engine runs poorly	Dirty air filter; Stale fuel; Incorrect throttle setting	Clean/replace air filter; Drain and refill with fresh fuel; Adjust throttle
Engine overheats	Blocked cooling fins; Low oil level; Overloaded	Clean cooling fins; Check/add oil; Reduce load

7. SPECIFICATIONS

Specification	Value
Model Number	3250128
Engine Type	OHV Horizontal Engine
Displacement	212cc
Horsepower (HP)	6 HP
Gross Torque	9 ft.-lbs.
Shaft Size	3/4in. x 2 7/16in.
Weight	38.6 pounds
Manufacturer	Powerhorse



Figure 4: Rear view of the engine, showing the output shaft.

8. WARRANTY AND SUPPORT

Powerhorse engines are built for reliability and durability. For specific warranty details, please refer to the warranty card included with your product or contact Powerhorse customer support directly.

For technical assistance, parts, or service inquiries, please contact our dedicated customer and technical support team. Contact information can typically be found on the Powerhorse website or on your product packaging.