

maXpeedingrods GO41DX

maXpeedingrods 15HP 420cc Gas Engine User Manual

Model: GO41DX

1. INTRODUCTION

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your maXpeedingrods 15HP 420cc 4-Stroke OHV Horizontal Shaft Gasoline Engine. Please read this manual thoroughly before operating the engine to ensure proper use and to prevent injury or damage.

The maXpeedingrods 15HP 420cc engine is a powerful 4-stroke OHV gasoline engine designed for a variety of applications. Its robust construction and efficient design make it suitable for equipment such as go-karts, log splitters, compressors, lawn mowers, water pumps, and pressure washers.



Figure 1: maXpeedingrods 15HP 420cc Gas Engine Overview

2. SPECIFICATIONS

Below are the detailed technical specifications for the maXpeedingrods 15HP 420cc Gas Engine:

Specification	Value
Shaft Diameter	1 inch (25.4mm)
Shaft Keyway	1/4 inch
Shaft Length	3.48 inches
Shaft End	3/8" Size 24 UNF - Drilled and Tapped
Shaft Orientation	Horizontal

Specification	Value
Bore x Stroke	90 x 66 mm
Displacement	420cc
Compression Ratio	8.0 : 1
Recommended Oil Type	SAE 10W-30
Fuel Tank Capacity	6 Liters
Oil Capacity	1.1 Liters
Model Number	GO41DX
Manufacturer	maXpeedingrods

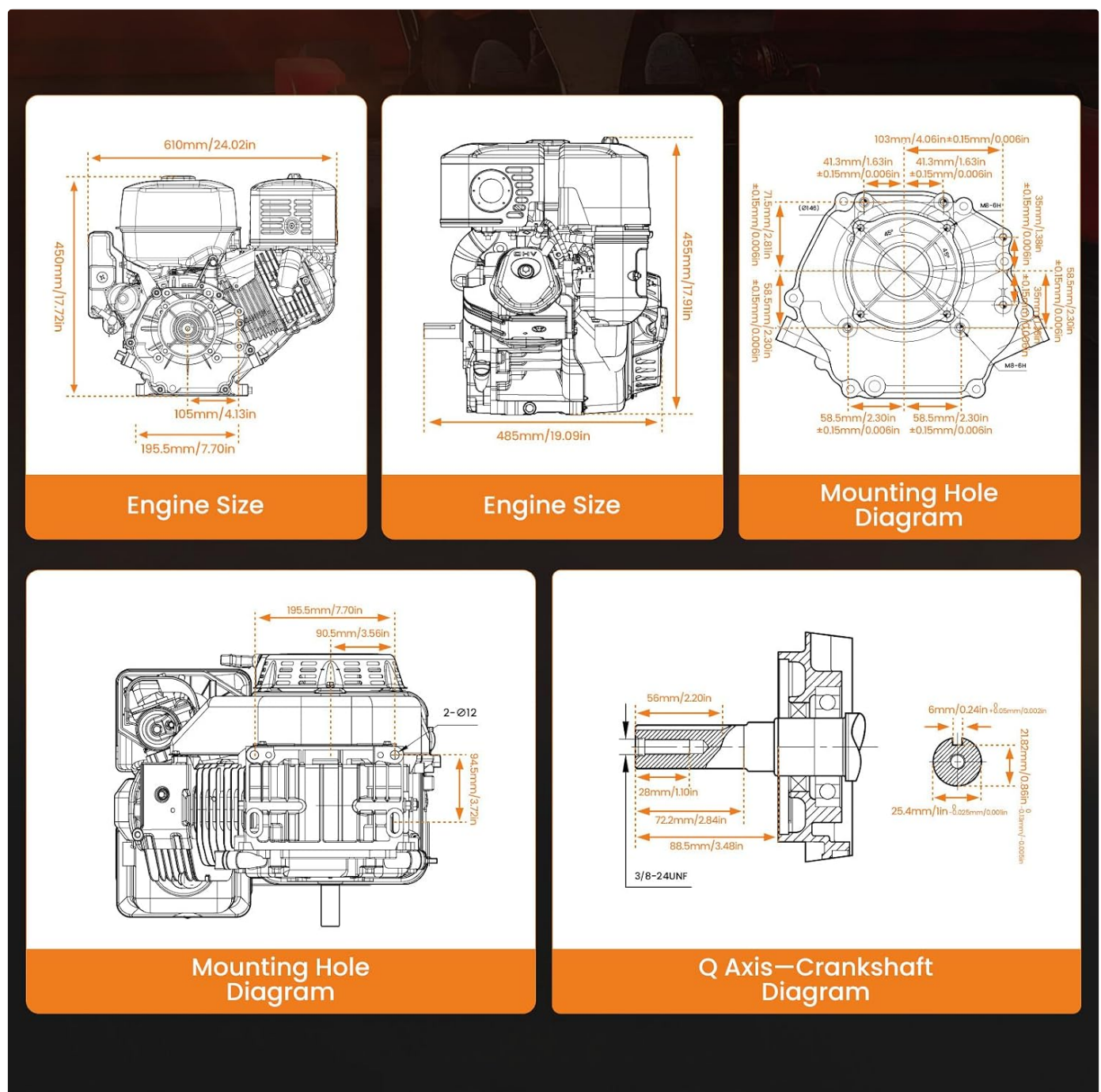


Figure 2: Engine Dimensions and Mounting Hole Diagram

OHV Design

Improve power output and fuel efficiency



Figure 3: Q-Axis Crankshaft Diagram

3. SAFETY INFORMATION

Your safety and the safety of others are very important. Always follow these safety precautions when operating or maintaining the engine.

- **Read the Manual:** Always read and understand the entire instruction manual before attempting to operate or service the engine.
- **Proper Ventilation:** Operate the engine in a well-ventilated area. Engine exhaust contains carbon monoxide, a colorless, odorless, poisonous gas.
- **Fuel Handling:** Handle gasoline with extreme care. Gasoline is highly flammable and its vapors are explosive. Refuel in a well-ventilated area with the engine off and cool. Do not smoke or allow flames or sparks near the engine or fuel tank.
- **Hot Surfaces:** The engine and exhaust system become very hot during operation and remain hot for a period after

shutdown. Avoid contact to prevent burns.

- **Moving Parts:** Keep hands, feet, hair, and clothing away from moving parts to prevent injury.
- **Eye Protection:** Always wear appropriate eye protection when operating or servicing the engine.
- **Children and Pets:** Keep children and pets away from the engine during operation and while it is cooling down.
- **Engine Condition:** Do not operate the engine if it is damaged or not in proper working order. Ensure all guards and covers are in place.

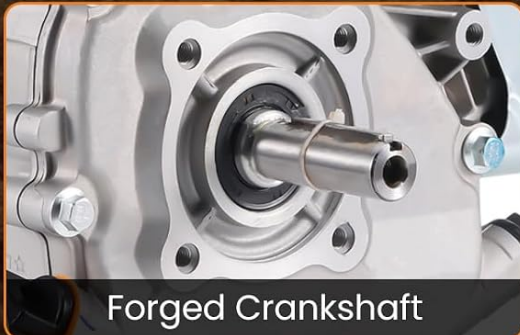
4. INITIAL SETUP

Before starting your maXpeedingrods engine for the first time, perform the following initial setup steps:

1. **Add Engine Oil:** The engine is shipped without oil. Add 1.1 liters of SAE 10W-30 engine oil to the crankcase. Ensure the engine is on a level surface when checking the oil level. Do not overfill.
2. **Add Gasoline:** Fill the fuel tank with fresh, unleaded gasoline. The fuel tank capacity is 6 liters. Do not overfill and ensure the fuel cap is securely tightened.
3. **Check Connections:** Verify that all hoses, wires, and fasteners are securely connected and tightened.
4. **Mounting:** Ensure the engine is securely mounted to its intended application according to the application's instructions and the engine's mounting hole diagrams (refer to Figure 2).

Stable Running

Ball bearing supported crankshaft for greater stability



Forged Crankshaft



Cast Iron Cylinder

Figure 4: Adding Oil and Fuel

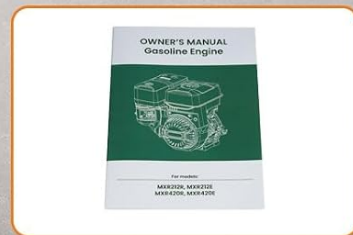
Accessories



Spark Plug Socket
Wrench



Oil Funnel



Owner's Manual

Figure 5: Included Accessories (Spark Plug Socket Wrench, Oil Funnel, Owner's Manual)

5. OPERATING INSTRUCTIONS

Follow these steps to start and operate your maXpeedingrods 15HP 420cc Gas Engine.

Starting the Engine

1. Move the fuel valve lever to the "ON" position.
2. **For Cold Start:** Turn the choke lever to the "START" position.
For Warm Start: Turn the choke lever to the "RUN" position. (Tip: Cold or Warm depends on the temperature of the engine body.)
3. Move the throttle lever away from the "SLOW" position, about 1/3 of the way toward the "FAST" position.
4. Press the engine switch to the "RUN" position.
5. Pull the recoil handle slowly until you feel increased resistance, then pull rapidly.

6. After the engine starts, turn the choke lever slowly to the "RUN" position.

Stopping the Engine

1. Move the throttle lever to the "SLOW" position.
2. Press the engine switch to the "STOP" position.
3. Turn the fuel valve lever to the "OFF" position.

Quick Operation Guide

Before Operation

Add SAE 10W-30 engine oil and gasoline.

Note: Low or no oil will fail to start.

Start The Engine

- ① Move the fuel valve lever to the "ON" position.
- ② (1) To start the engine in cold state, turn the choke lever to the "START" position.
(2) To start the engine in warm state, turn the choke lever to the "RUN" position.
Tip: Cold or Warm depends on the temperature of the engine body.
- ③ Move the throttle lever away from "SLOW" position, about 1/3 of the way toward the "FAST" position.
- ④ Press the engine switch to the "RUN" position.
- ⑤ Pull the recoil handle slowly until you feel increased resistance, then pull rapidly.
- ⑥ After the engine starts, then turn the choke lever slowly to the "RUN" position.



WARM STATE



COLD STATE

Figure 6: Quick Operation Guide for Engine Starting Procedure

6. MAINTENANCE

Regular maintenance is crucial for the longevity and optimal performance of your engine. Always ensure the engine is off and cool before performing any maintenance.

Oil Change

Change the engine oil after the first 20 hours of operation, and then every 50 hours or annually, whichever comes first. Use SAE 10W-30 oil.

1. Place a suitable container under the oil drain plug.
2. Remove the oil drain plug and the oil filler cap to allow the oil to drain completely.
3. Reinstall the oil drain plug and tighten it securely.
4. Refill with 1.1 liters of new SAE 10W-30 engine oil.
5. Reinstall the oil filler cap.

Air Filter Maintenance

Inspect the air filter every 25 hours of operation or more frequently in dusty conditions. Clean or replace as needed.

1. Remove the air filter cover.
2. Remove the foam filter element.
3. Wash the foam element in warm, soapy water, rinse thoroughly, and allow it to air dry completely. Lightly oil the foam element with engine oil and squeeze out excess.
4. Reinstall the foam element and air filter cover.

Spark Plug Inspection

Inspect the spark plug every 100 hours of operation or annually. Replace if necessary.

1. Remove the spark plug cap.
2. Use a spark plug wrench to remove the spark plug.
3. Check for carbon deposits, electrode wear, and proper gap. Clean or replace as needed.
4. Reinstall the spark plug and spark plug cap.



Figure 7: Internal Engine Components (Forged Crankshaft, Cast Iron Cylinder)

7. TROUBLESHOOTING

This section provides solutions to common problems you might encounter with your engine. If you cannot resolve an issue, contact customer support.

Problem	Possible Cause	Solution
Engine will not start	No fuel or low fuel level	Add fresh gasoline to the fuel tank.
Engine will not start	Low engine oil level	Add SAE 10W-30 engine oil to the correct level. The low oil sensor prevents starting.
Engine will not start	Choke in wrong position	Adjust choke lever according to cold or warm start procedure (refer to Section 5).

Problem	Possible Cause	Solution
Engine will not start	Engine switch in "STOP" position	Move engine switch to "RUN" position.
Engine runs rough or stalls	Stale fuel or water in fuel	Drain old fuel and refill with fresh gasoline.
Engine runs rough or stalls	Dirty air filter	Clean or replace the air filter (refer to Section 6).
Engine runs rough or stalls	Fouled spark plug	Inspect and clean or replace the spark plug (refer to Section 6).

8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your purchase or visit the official maXpeedingrods website. If you require technical assistance or have questions regarding your engine, please contact maXpeedingrods customer support.

You can find more information and contact details on the official maXpeedingrods store page:[maXpeedingrods Store](#)

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ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

