

EBERTH GG1

EBERTH 6.5 HP Gasoline Engine (Model GG1) - Instruction Manual

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1. PRODUCT OVERVIEW

The EBERTH 6.5 HP / 4.8 kW gasoline engine is a robust and reliable four-stroke, single-cylinder engine with a 196 cm³ displacement. Designed for various applications, it features air cooling and a cable start mechanism. The engine operates efficiently at a maximum of 3600 rpm and includes an oil shortage safety system that automatically shuts down the engine if the oil level is too low, protecting it from damage.

This engine is suitable as a drive unit for a wide range of machinery, including go-karts, lawnmowers, lawn tractors, vibratory plates, power generators, snow blowers, log splitters, garden tillers, and cultivators. Its 19.05 mm diameter left-rotating shaft ensures compatibility with many existing setups. The package includes essential tools for initial commissioning and ongoing maintenance.

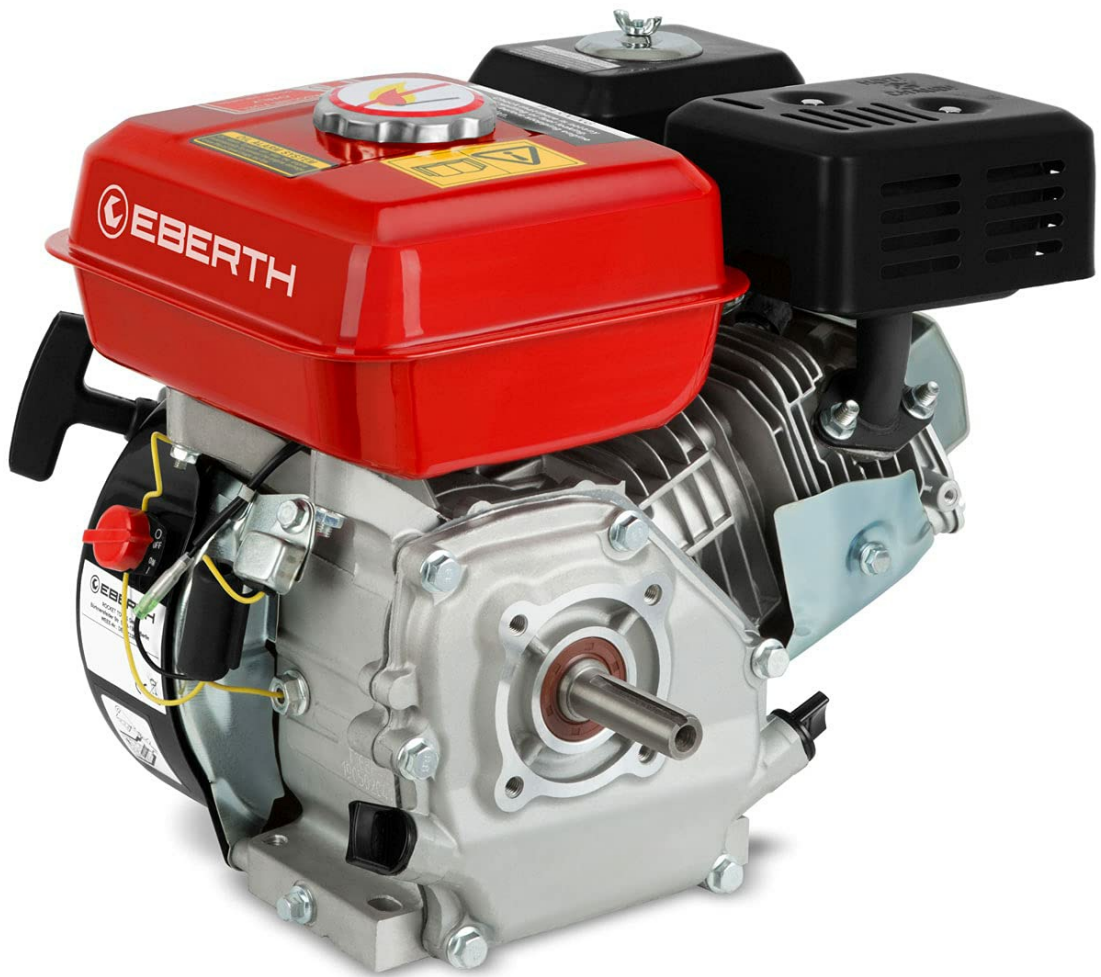


Figure 1: Front view of the EBERTH 6.5 HP Gasoline Engine.

2. SETUP AND INITIAL PREPARATION

Before operating the engine, proper setup is crucial for safety and performance. Follow these steps carefully:

2.1 Unpacking and Inspection

Carefully remove the engine and all components from the packaging. Inspect for any signs of damage during transit. Ensure all included accessories, such as the toolkit, are present.



Figure 2: Included toolkit for engine maintenance.

2.2 Adding Engine Oil

The engine is shipped without oil. It is essential to fill the crankcase with the recommended engine oil before the first start. Refer to the specifications for the correct oil type and capacity.

1. Place the engine on a level surface.
2. Remove the oil filler cap/dipstick.
3. Slowly add the recommended oil until it reaches the upper mark on the dipstick. Do not overfill.
4. Securely replace the oil filler cap/dipstick.



Figure 3: Illustration of checking and filling engine oil.

2.3 Adding Fuel

Use only unleaded gasoline with an octane rating of 95 RON or higher. The fuel tank capacity is 3.6 liters.

1. Ensure the engine is off and cool.
2. Open the fuel tank cap.
3. Fill the tank slowly, avoiding spills. Do not fill above the filter screen or to the very top of the tank to allow for fuel expansion.
4. Securely close the fuel tank cap.



Figure 4: Proper procedure for filling the fuel tank.

2.4 Mounting the Engine

The engine can be mounted as a replacement or primary power unit in various machines. Refer to the engine's dimensional drawing for mounting hole patterns and shaft details.

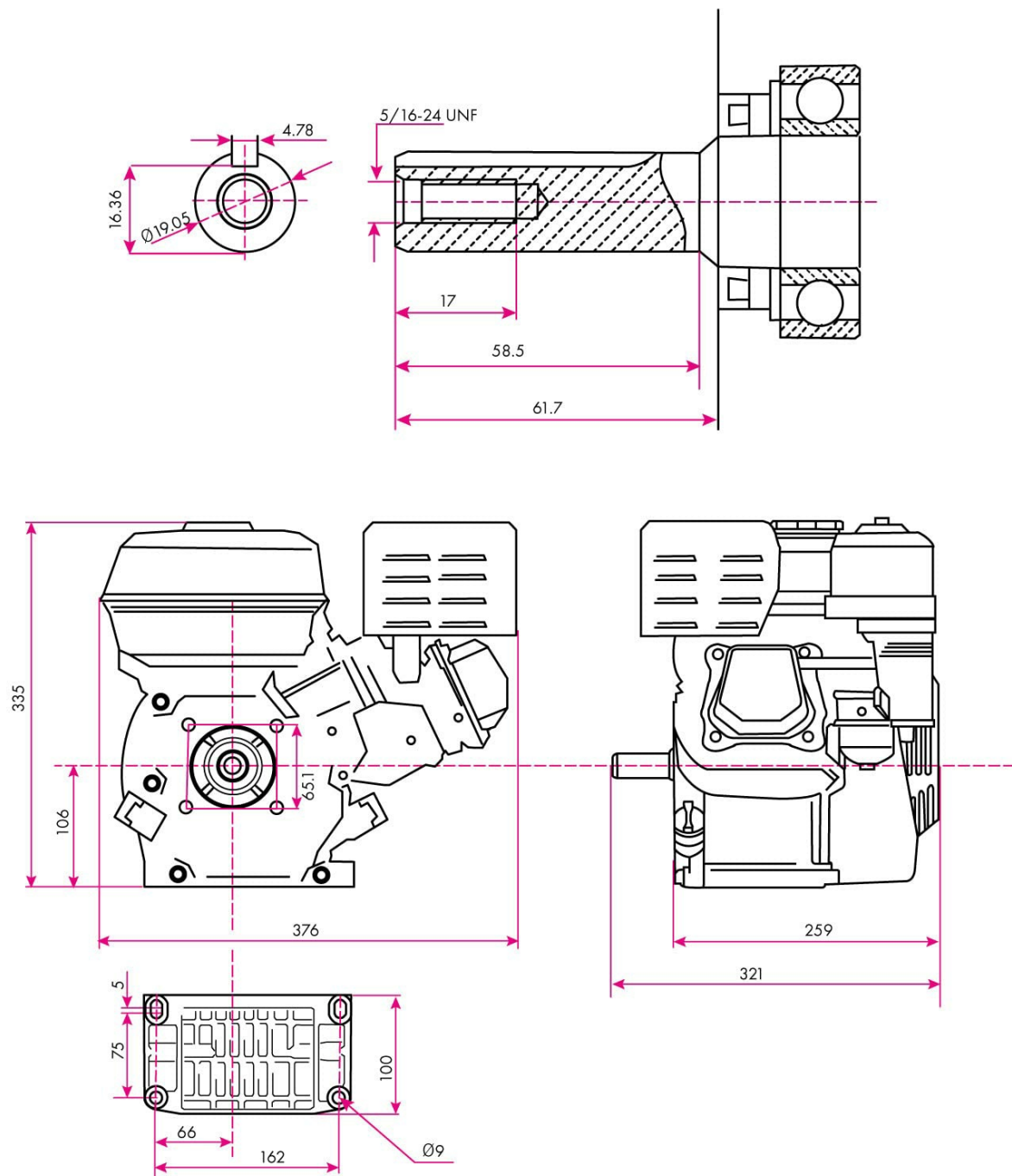


Figure 5: Engine diagram showing dimensions and mounting points.



Figure 6: Example of the engine being mounted onto a piece of equipment.

3. OPERATING INSTRUCTIONS

Familiarize yourself with the engine controls before starting.

3.1 Controls Overview

- **Fuel Valve:** Controls fuel flow to the carburetor.
- **Choke Lever:** Used for cold starts to enrich the fuel mixture.
- **Engine Switch:** Turns the ignition ON/OFF.
- **Recoil Starter:** Manual pull-cord for starting the engine.



Figure 7: Engine switch and identification label.

3.2 Starting the Engine

1. Ensure the engine has sufficient oil and fuel.

2. Open the fuel valve.
3. Move the choke lever to the 'CLOSED' position (for cold starts). For warm starts, the choke may not be necessary.
4. Set the engine switch to 'ON'.
5. Pull the recoil starter handle slowly until resistance is felt, then pull firmly and quickly. Do not let the rope snap back; guide it gently.
6. Once the engine starts, gradually move the choke lever to the 'OPEN' position.
7. Allow the engine to warm up for a few minutes before applying load.

3.3 Stopping the Engine

1. Reduce engine speed to idle.
2. Set the engine switch to 'OFF'.
3. Close the fuel valve for storage or extended periods of non-use.

4. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your EBERTH engine.

4.1 Daily Checks

- Check engine oil level.
- Inspect air filter for dirt.
- Check for any fuel or oil leaks.

4.2 Air Filter Maintenance

A dirty air filter can reduce engine performance and increase fuel consumption. Clean or replace the air filter regularly.

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 to air dry completely. Lightly oil the foam element with engine oil before reinstallation.
4. Replace the air filter element and cover.

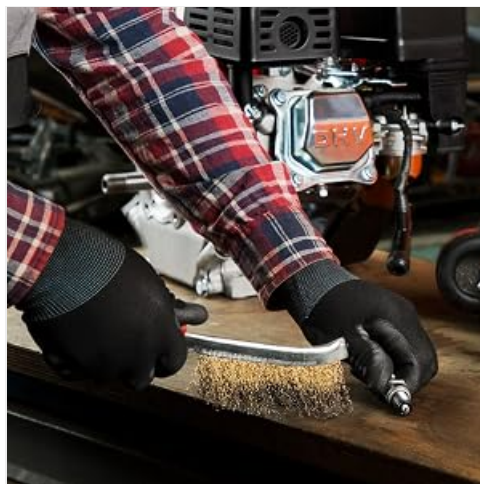


Figure 8: Steps for cleaning the air filter element.

4.3 Spark Plug Inspection and Cleaning

Inspect the spark plug periodically for wear and carbon buildup. Clean or replace as needed.

1. Remove the spark plug cap.
2. Use a spark plug wrench to remove the spark plug.
3. Inspect the electrode for wear and the insulator for cracks. Clean any carbon deposits with a wire brush.
4. Adjust the spark plug gap to the specified setting (refer to specifications).
5. Reinstall the spark plug and cap.



Figure 9: Cleaning carbon deposits from the spark plug.

4.4 Oil Change

Change the engine oil after the first 20 hours of operation, then every 50-100 hours or annually, whichever comes first.

1. Run the engine for a few minutes to warm the oil.
2. Place a suitable container under the oil drain plug.
3. Remove the oil filler cap/dipstick and the oil drain plug to allow the oil to drain completely.
4. Reinstall the oil drain plug and fill with new, recommended engine oil (refer to Section 2.2).

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your EBERTH engine.

5.1 Engine Will Not Start

- **No Fuel:** Check fuel level and ensure the fuel valve is open.
- **Incorrect Choke Position:** Adjust choke for cold or warm start conditions.
- **Engine Switch OFF:** Ensure the engine switch is in the 'ON' position.
- **Low Oil Level:** The oil shortage safety system will prevent starting if oil is too low. Check and fill oil.
- **Dirty Spark Plug:** Inspect and clean or replace the spark plug.
- **Stale Fuel:** Drain old fuel and refill with fresh gasoline.

5.2 Engine Runs Poorly or Lacks Power

- **Dirty Air Filter:** Clean or replace the air filter.
- **Dirty Spark Plug:** Inspect and clean or replace the spark plug.
- **Stale Fuel:** Use fresh fuel.

- **Carburetor Issues:** If problems persist, the carburetor may need cleaning or adjustment by a qualified technician.

6. TECHNICAL SPECIFICATIONS

Feature	Specification
Manufacturer	EBERTH
Model Reference	GG1
Product Dimensions (L x W x H)	40 x 34 x 36 cm
Weight	13 Kilograms
Shaft Size	19.05mm Ø
Color	Red
Material	Aluminum, Cast Iron
Power Type	Gasoline
Voltage	12 Volts (DC)
Power	4.8 KW
Horsepower	6.5 HP
Max Power	6.5 HP
Speed	3600 rpm
Cylinder Displacement	196 cc
Fuel Tank Capacity	3.6 Liters
Cooling System	Air Cooled
Starting Method	Cable Start (Recoil)
Special Features	Oil shortage safety, quiet operation, low fuel consumption
Included Components	Engine, user manual, toolkit

7. WARRANTY AND SUPPORT

The EBERTH 6.5 HP Gasoline Engine comes with a**2-year manufacturer's warranty**. This warranty covers defects in materials and workmanship under normal use and service.

For warranty claims, technical assistance, or spare parts inquiries, please contact EBERTH customer support. EBERTH maintains a comprehensive stock of spare parts to ensure quick availability and delivery, minimizing downtime for your equipment.

Please retain your proof of purchase for warranty validation.

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