

[Manuals.plus](#) /

› [YIYIBYUS](#) /

› YIYIBYUS 2.3HP 2 Stroke Outboard Motor (Model QC-585) User Manual

YIYIBYUS QC-585

YIYIBYUS 2.3HP 2-Stroke Outboard Motor User Manual

Model: QC-585

1. INTRODUCTION

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your YIYIBYUS 2.3HP 2-Stroke Outboard Motor, Model QC-585. This 52cc gas-powered engine is designed for use with fishing boats, dinghies, and inflatable boats, offering a power output of 1.7kW (2.3HP) and an operating speed range of 4500-8500 RPM. Constructed from durable aluminum and PP materials, it features a non-contact electronic ignition system for reliable performance. Please read this manual thoroughly before initial use to ensure proper handling and to prevent injury or damage.

Widely Applicable

Enjoying Private Time



Fishing



Surfing



Vacation



Applicable Boat Length: $\leq 2.4\text{m}/7.87\text{ft}$

Figure 1.1: The YIYIBYUS 2.3HP 2-Stroke Outboard Motor is suitable for various recreational boating activities such as fishing, surfing, and general leisure.

2. SAFETY INFORMATION

Operating any marine engine requires adherence to strict safety guidelines. Failure to follow these instructions can result in serious injury or death.

- **Read the Manual:** Always read and understand the entire instruction manual before operating the motor.
- **Personal Flotation Device:** Always wear a U.S. Coast Guard-approved personal flotation device (PFD) when operating or riding in a boat.
- **Fuel Handling:** Gasoline is highly flammable. Refuel in a well-ventilated area with the engine off and cool. Avoid spilling fuel. Do not smoke or use open flames near fuel.
- **Ventilation:** Ensure adequate ventilation when operating the engine, especially in enclosed spaces, to prevent carbon monoxide buildup.
- **Emergency Stop:** Familiarize yourself with the emergency shutdown rope and button. Always attach the shutdown rope to

yourself or your clothing while operating the motor.

- **Propeller Safety:** Keep hands, feet, and clothing clear of the propeller at all times, especially when the engine is running or being started. Never operate the engine out of water.
- **Children and Pets:** Keep children and pets away from the motor, especially during operation and refueling.
- **Maintenance:** Perform all maintenance with the engine off and the spark plug cap disconnected to prevent accidental starting.



Figure 2.1: The emergency shutdown rope and button are critical safety features. Always ensure the shutdown rope is attached to the operator during use.

3. PACKAGE CONTENTS

Upon unpacking, please verify that all the following components are present:

- YIYIBYUS 2.3HP 2-Stroke Outboard Motor Unit
- Mounting Bracket (pre-attached or separate)

- Tool Kit (for basic assembly and maintenance)
- Fuel Mixing Bottle
- User Manual (this document)

4. SETUP AND INSTALLATION

Proper installation is crucial for safe and efficient operation.

4.1 Mounting the Motor

1. Position the motor on the boat's transom. Ensure the mounting bracket clamps securely grip the transom.
2. Tighten the fixing screws on the mounting bracket firmly to prevent movement during operation.
3. Adjust the motor's height so that the propeller is adequately submerged in the water, typically with the anti-cavitation plate just below the waterline.
4. Adjust the trim angle for optimal performance and steering. The motor features an adjustable angle greater than 120 degrees for convenient steering.

Adjustable Design



Adjustable
Angle



Aluminum



PP



Figure 4.1: The adjustable mounting bracket allows for secure attachment and height/angle customization on various boat transoms.



Figure 4.2: Ensure the fixing screws are tightened securely to prevent the motor from detaching during operation.

4.2 Bracket Installation Video

Your browser does not support the video tag.

5. FUEL AND OIL MIXTURE

This is a 2-stroke engine and requires a specific fuel-to-oil mixture. Using incorrect fuel or mixture ratio will damage the engine and void the warranty.

- **Fuel Type:** Use unleaded gasoline with an octane rating of 87 or higher.
- **Oil Type:** Use high-quality 2-stroke engine oil specifically designed for air-cooled engines.
- **Mixing Ratio:** The recommended fuel mixing ratio is **25:1** (25 parts gasoline to 1 part 2-stroke oil).

5.1 Mixing Procedure

1. Use the provided fuel mixing bottle for accurate measurement.
2. Pour the required amount of 2-stroke oil into the mixing bottle first.
3. Add the corresponding amount of gasoline to achieve the 25:1 ratio.
4. Securely close the bottle and shake it gently to ensure thorough mixing.
5. Pour the mixed fuel into the motor's fuel tank (capacity: 850ml / 0.22gal).

Caution: Always mix fuel in a well-ventilated area away from ignition sources. Store mixed fuel in an approved container.

Large Fuel Tank & Fuel-efficient

Saving Fuel & Reducing Expenses



0.22gal Large Fuel Tank

Avoiding Frequent Refueling



Efficient Carburetor

0.39gal/h Fuel Consumption Rate



Figure 5.1: The motor features an integrated fuel tank with an 850ml capacity and an efficient carburetor for optimal fuel consumption.

6. OPERATING INSTRUCTIONS

Follow these steps for starting and operating your outboard motor.

6.1 Pre-Operation Checks

- Ensure the motor is securely mounted to the transom.
- Check that the fuel tank contains the correct 25:1 mixed fuel.
- Verify the emergency shutdown rope is attached to the operator.
- Inspect the propeller for any damage or obstructions.

6.2 Starting the Engine

1. Ensure the motor is in neutral (if applicable) and the propeller is clear.

2. If the engine is cold, engage the choke.
3. Pull the starter rope firmly and smoothly until the engine starts. Do not pull the rope to its full extension.
4. Once the engine starts, gradually disengage the choke as the engine warms up.

6.3 Throttle and Steering Control

The motor features an ergonomic control lever for acceleration and steering.

- **Acceleration:** Rotate the control lever to increase or decrease engine RPM. The infinitely variable speed control allows for precise adjustment.
- **Steering:** The motor's steering angle is greater than 120 degrees, providing excellent maneuverability. Turn the tiller handle in the desired direction of travel.



Figure 6.1: The ergonomic control lever allows for easy acceleration and steering adjustments, providing infinitely variable speed control.

6.4 Stopping the Engine

To stop the engine, either press the shutdown button or pull the emergency shutdown rope.

6.5 Product Overview Video

Your browser does not support the video tag.

Video 6.1: This video provides a general overview of the YIYIBYUS 2.3HP 2-Stroke Outboard Motor in operation.

7. MAINTENANCE

Regular maintenance ensures the longevity and reliable performance of your outboard motor.

- **After Each Use:** Flush the engine with fresh water if operated in saltwater to prevent corrosion. Wipe down the exterior.
- **Propeller Inspection:** Regularly check the propeller for damage, fishing line, or debris. Remove any obstructions.
- **Spark Plug:** Inspect the spark plug periodically for wear or fouling. Replace if necessary according to manufacturer specifications.
- **Fuel System:** Check fuel lines for cracks or leaks. Ensure the fuel cap is sealed properly.
- **Heat Dissipation:** Ensure the heat dissipation holes on the engine cover are clear of debris to allow for timely transfer of hot air and prevent overheating.



Figure 7.1: The engine features heat dissipation holes to prevent overheating during extended operation. Keep these clear.

8. TROUBLESHOOTING

This section addresses common issues you might encounter.

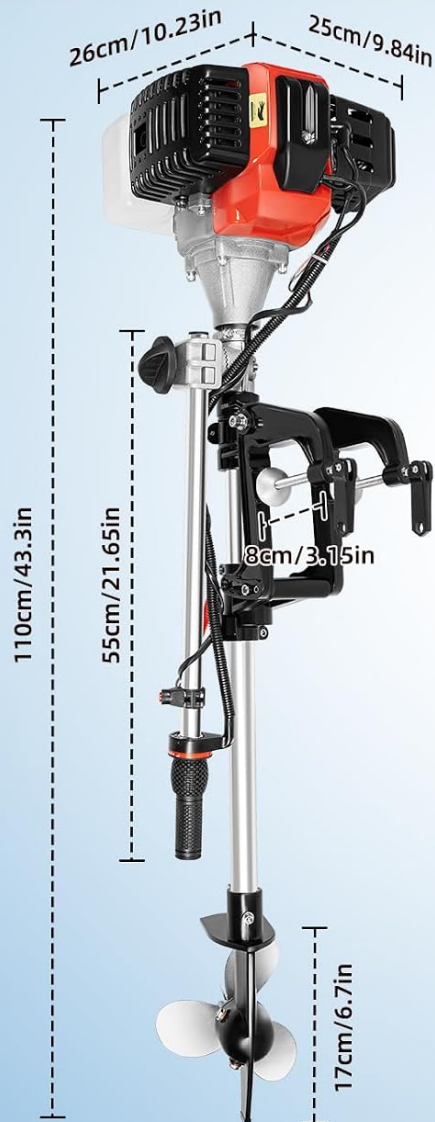
- **Engine Will Not Start:**
 - Check fuel level and ensure correct 25:1 fuel/oil mixture.
 - Verify spark plug is clean and properly connected.
 - Ensure the emergency shutdown button is not engaged and the rope is properly inserted.
 - Check if the choke is correctly applied for a cold start.
- **Engine Runs Poorly or Lacks Power:**
 - Inspect the fuel filter for clogs.
 - Check for water or debris in the fuel.
 - Examine the propeller for damage or entanglement.
 - Ensure the carburetor is clean and functioning correctly.
- **Excessive Noise:**
 - Ensure all mounting bolts and screws are tight.
 - Check for loose components or vibrations.

- Verify the propeller is not damaged or unbalanced.

9. SPECIFICATIONS

Parameter	Value
Power	1.7kW / 2.3HP
Displacement	52cc
Engine Type	2-Stroke
Idle Speed	2800-3200 RPM
Operating Speed	4500-8500 RPM
Fuel Mixing Ratio	25:1 (Gasoline:2-Stroke Oil)
Fuel Tank Volume	850ml / 0.22gal
Shaft Length	70cm / 27.55inch
Materials	Aluminum, PP
Steering Angle	> 120°
Noise Level	80-110dB
Item Weight	9.55 kg
Model Number	QC-585

Specifications



 Power:	1.7kw/2.3HP
 Displacement:	52cc
 Type:	2-stroke
 Noise:	80-110dB
 Idle Speed:	2800-3200rpm
 Working Speed:	4500-8500rpm

Figure 9.1: Detailed specifications and dimensions of the YIYIBYUS 2.3HP 2-Stroke Outboard Motor.

10. WARRANTY AND SUPPORT

Your YIYIBYUS 2.3HP 2-Stroke Outboard Motor (Model QC-585) is covered by a **1-year manufacturer's warranty** from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

For warranty claims, technical support, or inquiries regarding replacement parts, please contact your retailer or the manufacturer directly. Please have your model number (QC-585) and proof of purchase available when contacting support.

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