

[Manuals.plus](#) /

› [IMAYCC](#) /

› IMAYCC Bike Motor Kit 100cc Motorized Bike Kit 2 Stroke Gas Bicycle Engine Conversion Kit Fit for 26-28" Bikes (100CC Black) - Instruction Manual

IMAYCC 2STROKE Engine 100CC KITS

IMAYCC 100cc 2-Stroke Gas Bicycle Engine Conversion Kit

Model: 2STROKE Engine 100CC KITS

Brand: IMAYCC

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, maintenance, and troubleshooting of your IMAYCC 100cc 2-Stroke Gas Bicycle Engine Conversion Kit. This kit is designed to convert standard 26-28 inch bicycles with V-frames into motorized bicycles, offering enhanced mobility and speed. Please read this manual thoroughly before beginning installation or operation to ensure safe and correct usage.



VS

Ordinary bicycle



Gasoline-powered Motorcycle

Image: Visual comparison illustrating the difference between a standard bicycle and one equipped with the IMAYCC engine kit, highlighting the conversion's outcome.

SETUP AND INSTALLATION

The installation of the IMAYCC 100cc engine kit requires basic hardware skills and tools. The process typically takes 2-4 hours for experienced individuals. If you are new to engine kit installations, it is recommended to review instructional videos and guides available online, such as searching for "IMAYCC Bicycle Engine Kit" on video platforms, in addition to following these instructions.

Compatibility

This engine kit is suitable for most 26-28 inch wheeled bicycles, including mountain bikes, cruisers, and road bikes, provided they have a V-frame. A minimum of 10 inches of clearance between the bottom bracket and the top bar of the frame is required for proper fitment.

Suitable for 26-28 Inch Bikes



Maximum front pipe diameter:	40mm	Maximum rear pipe diameter:	35mm
Number of sprocket teeth:	44 teeth	Number of chain teeth:	110 knots

Image: A diagram illustrating the required dimensions and clearance on a bicycle frame for the engine kit to be installed correctly, including maximum pipe diameters and sprocket/chain teeth counts.

Package Contents

Before beginning installation, verify that all components are present in your kit. The kit includes the following:

- Engine (100cc, 2-stroke)
- Fuel Tank (3L, black teardrop)
- Carburetor
- Exhaust Pipe (Chrome-plated muffler)
- Sprocket (44-tooth chrome drive)
- Chain (415 heavy duty)
- Chain Cover
- Clutch Lever
- Tensioner

- Rubber Pad Cleats
- Spark Plug
- Fuel Filter
- Round Rubber Pads
- Clutch Lever Sleeve
- Throttle Handle
- Spark Plug Wrench
- CDI Ignition
- 6mm Drill Bit
- 4mm Drill Bit
- Exhaust Manifold Mounting Piece
- Chain Remover
- Kill Switch
- Throttle Cable
- Clutch Cable
- Bolts (with Spring Washers and Nuts)
- 3.5mm Multi-Purpose Fish Head Wrenches
- Allen Wrench (1/4 Short Set of 10mm Internal and External Hexagon Sockets)
- Fuel Line Clamp
- Fuel Line
- Small Spring
- Large Spring
- Exhaust Manifold
- Black Phillips Screwdriver
- Tie Tape
- Fuel Tank Switch
- Gear Removal Tool



Image: A comprehensive layout of all parts and tools included in the IMAYCC 100cc bicycle engine conversion kit, clearly labeled for identification.

Fuel Tank Installation

The 3L teardrop fuel tank is designed for easy installation. Ensure the leak-proof gasket is properly seated. Always close the fuel valve (UP=OFF, DOWN=ON) when parking the bicycle to prevent leaks.



Image: A step-by-step diagram illustrating the correct procedure for installing the fuel tank, including the fuel line connection and valve operation.

Wiring Connection

Proper wiring is crucial for engine operation. Follow these connections:

- **Point 1:** Blue wire and blue wire connection.
- **Point 2:** Black wire and black wire connection.
- **Point 3:** White wire does not need to be connected; it should be wrapped with electrical tape for insulation.

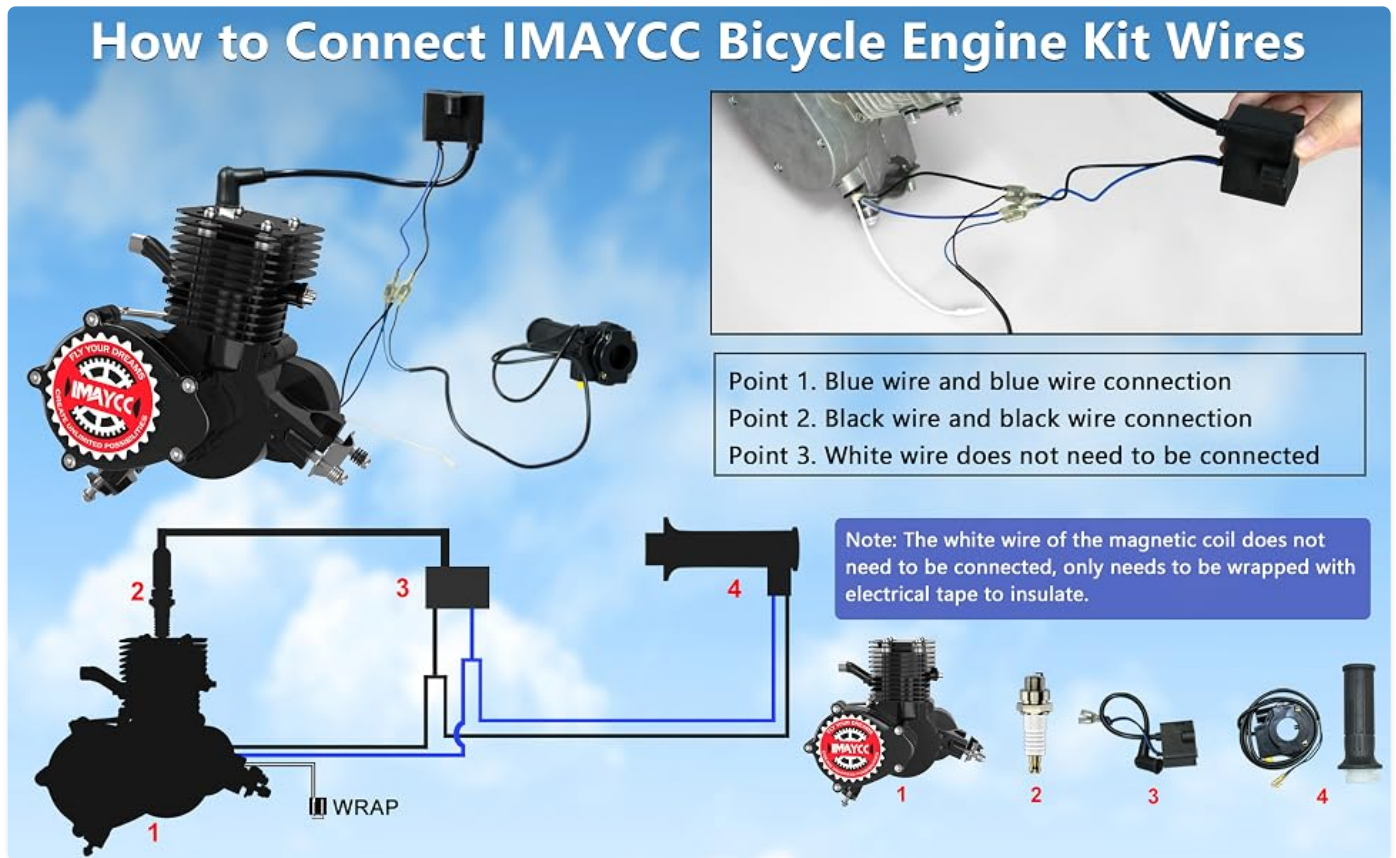


Image: A detailed wiring diagram showing the connections between the engine, CDI ignition, kill switch, and throttle handle.

OPERATING INSTRUCTIONS

Fuel Mixture

The engine operates on a mixture of 90# gasoline and engine oil. The mixing ratio is critical for engine longevity and performance:

- **For new equipment (first 500km):** 16:1 (Gasoline:Engine Oil)
- **After run-in period (after 500km):** 20:1 (Gasoline:Engine Oil)

Ensure the fuel and engine oil are thoroughly mixed before adding to the fuel tank.

Starting the Engine

The engine is started using the foot pedal. Engage the clutch, pedal the bicycle to gain some speed, then release the clutch to engage the engine. The CDI ignition system will initiate combustion.

Performance and Usage

The 100cc engine provides a power output of 2kw at 6500rpm, allowing for faster riding speeds. When driving on smooth roads, a speed of 35-40km/h is recommended, with a maximum speed limit of 50km/h. The fuel consumption is approximately 2.5L per 100km.

MAINTENANCE

Regular maintenance is essential to ensure the longevity and reliable operation of your motorized bicycle. Always perform maintenance in a well-ventilated area and ensure the engine is cool.

- **Pre-Ride Checks:** Before each ride, inspect all bolts and connections for tightness. Vibrations from engine operation can cause components to loosen over time. Consider using thread locker on critical bolts, especially exhaust bolts, to prevent loosening.
- **Spark Plug:** Periodically check the spark plug for fouling and wear. Replace as necessary to ensure efficient ignition.
- **Chain Tension:** The drive chain tensioner may require periodic adjustment, particularly during the break-in period as the chain stretches. Maintain proper chain tension to prevent slipping and excessive wear.
- **Fuel System:** Regularly inspect fuel lines and connections for any signs of leaks. Ensure the fuel filter is clean.
- **Carburetor:** Keep the carburetor clean and ensure it is securely mounted to prevent air leaks.



Image: A person engaged in maintenance on a bicycle, with the IMAYCC engine kit installed, symbolizing the DIY aspect of upkeep.

TROUBLESHOOTING

This section addresses common issues that may arise during the installation or operation of your engine kit. Many problems can be resolved with careful inspection and adjustment.

- **Engine Does Not Start:**
 - Check fuel supply: Ensure the fuel tank has the correct fuel mixture and the fuel valve is open.
 - Spark plug: Verify the spark plug is clean and producing a spark. Replace if necessary.
 - Carburetor: Ensure the carburetor is securely tightened and not leaking fuel. A loose carburetor can prevent proper starting.
 - Wiring: Double-check all electrical connections as per the wiring diagram.
- **Fuel Leaks:**
 - Fuel Tank: Ensure the fuel tank cap is tight and the fuel valve is closed when not in use. Inspect the tank for cracks or loose fittings.
 - Carburetor: Check all carburetor gaskets and connections. Tighten any loose screws.
- **Chain Slipping/Coming Off:**

- Chain Alignment: Ensure the engine, sprocket, and bicycle chain are perfectly aligned. Misalignment can cause the chain to slip.
- Chain Tension: Adjust the chain tensioner to maintain appropriate chain tautness.
- Sprocket Installation: Verify the rear sprocket is securely mounted and properly aligned with the wheel.

- **Excessive Vibration/Noise:**

- Loose Components: Re-check all mounting bolts for the engine, exhaust, and other components.
- Engine Mounts: Ensure engine mounts are secure and not damaged.

- **Poor Performance (e.g., 4-stroking, fouled spark plugs):**

- Fuel Mixture: Verify the fuel-to-oil ratio is correct for the engine's run-in status.
- Carburetor Adjustment: The carburetor may require fine-tuning. Consult online resources or a professional if unsure.

For persistent issues, it is recommended to consult a qualified mechanic or refer to additional online resources and communities dedicated to motorized bicycle kits.

SPECIFICATIONS

Key technical specifications for the IMAYCC 100cc 2-Stroke Gas Bicycle Engine Conversion Kit:

Feature	Specification
Engine Type	Single-cylinder, Air-cooled, Two-stroke
Engine Displacement	100cc
Engine Power/Speed	2kw / 6500rpm
Starting Method	Foot Pedal Starting
Ignition Method	CDI Ignition
Fuel Tank Capacity	3 Liters
Recommended Fuel Type	90# Gasoline
Fuel & Engine Oil Mixing Ratio (New)	16:1
Fuel & Engine Oil Mixing Ratio (Run-in)	20:1
Sprocket Tooth Count	44 teeth
Chain Length	110 knots (415 heavy duty chain)
Compatible Bike Wheel Size	26-28 inches
Product Dimensions	17.6 x 8.2 x 17.6 inches
Item Weight	26.46 Pounds



Image: A diagram illustrating the physical dimensions of the IMAYCC 100cc 2-stroke bicycle engine, showing its height and width.

WARRANTY AND SUPPORT

IMAYCC is committed to providing high-quality products and customer satisfaction. If you encounter any quality problems with your product, IMAYCC offers one year of long-term guidance or free replacement of brand new products. For any product support, inquiries, or assistance with troubleshooting, please utilize the 'Contact Seller' option available within your Amazon order details. Our support team is available to assist you.



Image: A visual reminder to contact the seller for any product support needs, emphasizing customer assistance.

