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MotoTec MT-Phantom-49cc

MotoTec Phantom 49cc 2-Stroke Gas Pocket Bike Instruction Manual

Model: MT-Phantom-49cc

INTRODUCTION

This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your MotoTec Phantom 49cc 2-Stroke Gas Pocket Bike. Please read this manual thoroughly before operating the vehicle to ensure proper use and to prevent injury or damage.

SAFETY INFORMATION

Operating a gas-powered pocket bike can be dangerous if proper safety precautions are not followed. Always prioritize safety.

- **Age Recommendation:** This product is recommended for ages 13 and up. Adult supervision is required for all riders under 18.
- **Protective Gear:** Always wear a helmet, eye protection, gloves, and appropriate riding attire (long sleeves, long pants, sturdy shoes) when operating the pocket bike.
- **Rider Weight Limit:** Do not exceed the maximum rider weight of 170 lbs (77 kg).
- **Operating Environment:** Operate the pocket bike only in safe, open areas away from traffic, pedestrians, and obstacles. Avoid wet, uneven, or slippery surfaces.
- **Fuel Handling:** Gasoline is highly flammable. Handle fuel in a well-ventilated area, away from open flames or sparks. Turn off the engine before refueling.
- **Pre-Ride Inspection:** Before each ride, check tire pressure, brake function, chain tension, and ensure all nuts and bolts are secure.
- **No Passengers:** This pocket bike is designed for a single rider only. Do not carry passengers.
- **Engine Heat:** The engine and exhaust system become very hot during operation and can cause burns. Avoid contact with these parts.

SETUP AND INITIAL ASSEMBLY

Your MotoTec Phantom pocket bike requires some assembly before its first use. A basic tool kit is typically included.

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any shipping damage.
2. **Handlebar Installation:** Attach the handlebars to the steering column. Ensure they are centered and tightened securely. The handlebars are angle adjustable.

3. **Wheel and Fender Attachment:** If not pre-assembled, attach the front wheel and fender. Ensure all fasteners are tightened to manufacturer specifications.
4. **Fluid Checks:**
 - **Fuel Mixture:** This is a 2-stroke engine. It requires a specific mixture of unleaded gasoline and 2-stroke oil. The manufacturer recommends a **32:1 fuel/oil ratio**. Mix the fuel and oil thoroughly in a separate container before adding to the fuel tank.
 - **Brake Fluid:** Check brake fluid levels if applicable (for hydraulic systems) or ensure mechanical brakes are properly adjusted.
5. **Tire Pressure:** Inflate tires to the recommended pressure, typically found on the tire sidewall.
6. **General Inspection:** Before the first ride, double-check all nuts, bolts, and fasteners for tightness. Ensure the chain is properly tensioned and lubricated.



Image: Front view of the MotoTec Phantom pocket bike, showing the handlebars and front wheel assembly.

OPERATING INSTRUCTIONS

Starting the Engine

1. **Fuel Tank:** Ensure the fuel tank contains the correct 32:1 gasoline/2-stroke oil mixture. The tank capacity is 1.25 liters.
2. **Fuel Valve:** Turn the fuel valve to the "ON" position.
3. **Choke:** Locate the choke lever on the carburetor. For a cold engine, move the choke lever to the "ON" or "CLOSED" position.
4. **Prime:** Locate the primer bulb on the carburetor. Press the primer bulb several times until fuel is visible in the fuel lines and the bulb feels firm.
5. **Pull Start:** With the choke on, pull the starter cord firmly and smoothly 2-3 times.
6. **Choke Off:** Once the engine attempts to start or fires, immediately move the choke lever to the "OFF" or "OPEN" position.
7. **Final Start:** Pull the starter cord again with the choke off and the throttle slightly open until the engine starts. Do not pull with the choke on after the initial attempts, as this can flood the engine.

8. **Warm-up:** Allow the engine to warm up for a minute or two before riding.

Riding the Pocket Bike

- **Throttle Control:** The pocket bike features a variable twist-grip throttle. Twist the grip gently to accelerate.
- **Braking:** The bike is equipped with front and rear disk brakes. Apply both brakes smoothly and evenly to slow down or stop. Avoid sudden, hard braking, especially with the front brake, to prevent loss of control.
- **Steering:** Use the handlebars to steer. Lean into turns for better control.
- **Stopping the Engine:** To stop the engine, locate the kill switch (usually on the handlebars) and press it. Alternatively, turn the fuel valve to the "OFF" position and allow the engine to run out of fuel.



Image: Side view of the MotoTec Phantom pocket bike, highlighting the engine and exhaust components.

MAINTENANCE

Regular maintenance is crucial for the longevity and safe operation of your pocket bike.

- **Chain Maintenance:** Regularly inspect the drive chain for proper tension and lubrication. Adjust tension as needed and apply chain lubricant to prevent wear and rust.
- **Brake Inspection:** Check brake pads for wear and ensure brake levers operate smoothly. Adjust brake cables for proper stopping power.
- **Tire Pressure:** Maintain correct tire pressure as specified on the tire sidewall.
- **Spark Plug:** Inspect and clean the spark plug periodically. Replace if fouled or worn.
- **Air Filter:** Clean or replace the air filter regularly, especially if riding in dusty conditions.
- **Fasteners:** Periodically check all nuts, bolts, and fasteners for tightness. Vibrations from operation can cause them to loosen.
- **Fuel System:** If storing the bike for an extended period, drain the fuel tank and carburetor to prevent fuel degradation and clogging.



Image: Rear view of the MotoTec Phantom pocket bike, showing the rear wheel, chain, and disc brake.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Engine does not start	<ul style="list-style-type: none"> No fuel or incorrect fuel mixture Choke not used correctly Spark plug fouled or faulty Kill switch engaged Carburetor flooded 	<ul style="list-style-type: none"> Check fuel level and ensure correct 32:1 mixture. Follow starting procedure: choke on for cold start, then off. Prime bulb. Clean or replace spark plug. Ensure kill switch is in the "RUN" position. If flooded, turn off choke, hold throttle wide open, and pull start several times to clear excess fuel.
Loss of power or poor performance	<ul style="list-style-type: none"> Incorrect fuel mixture Clogged air filter Fouled spark plug Exhaust restriction 	<ul style="list-style-type: none"> Verify 32:1 fuel/oil ratio. Clean or replace air filter. Clean or replace spark plug. Check exhaust for blockages.
Brakes not effective	<ul style="list-style-type: none"> Worn brake pads Loose brake cable Air in hydraulic system (if applicable) 	<ul style="list-style-type: none"> Inspect and replace brake pads if worn. Adjust brake cable tension. Consult a qualified technician for hydraulic brake bleeding.

SPECIFICATIONS

Motor:	49cc 2-Stroke, Air Cooled, EPA Approved
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Engine Start:	Pull Start
Gas Tank Capacity:	1.25 liters
Cruising Range:	Approximately 20 miles per tank
Fuel/Oil Ratio:	Unleaded Gasoline / 2-stroke Oil 32:1
Transmission:	Centrifugal (chain drive)
Pocket Bike Dimensions (L x W x H):	40in x 21in x 23in
Seat Height:	18.5in
Recommended Age:	13+
Max Rider Weight:	170 lbs
Frame:	Rigid Steel
Front Tire:	90/65-6.5 Pneumatic (11 inch)
Rear Tire:	110/50-6.5 Pneumatic (11 inch)
Brakes:	Front & Rear Disk Brakes
Throttle:	Variable twist-grip
Seat:	Padded (single rider)
Handlebars:	Angle Adjustable
Product Weight:	43 lbs
Box Dimensions:	43x15x26 inches
Manufacturer:	MotoTec

WARRANTY AND SUPPORT

The MotoTec Phantom 49cc Gas Pocket Bike comes with a **30-day parts replacement warranty**. This warranty covers manufacturing defects in materials and workmanship for a period of 30 days from the date of purchase.

For warranty claims, technical support, or inquiries regarding replacement parts, please contact MotoTec customer service. Keep your proof of purchase for warranty validation.

Note: Damage resulting from improper assembly, maintenance, misuse, abuse, accidents, or unauthorized modifications is not covered under warranty.