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> [MotoTec X4 150cc 4-Stroke Gas Dirt Bike Instruction Manual](#)

MotoTec MT-DB-X4-150cc

MotoTec X4 150cc 4-Stroke Gas Dirt Bike Instruction Manual

Model: MT-DB-X4-150cc

1. INTRODUCTION

This manual provides essential information for the safe operation, assembly, maintenance, and troubleshooting of your MotoTec X4 150cc 4-Stroke Gas Dirt Bike. Please read this manual thoroughly before operating the vehicle to ensure proper use and to prevent injury or damage.



The MotoTec X4 150cc is designed for off-road use, featuring a robust 4-stroke engine, manual transmission, and durable construction suitable for various outdoor environments.

2. SAFETY INFORMATION

Operating a dirt bike can be hazardous. Always prioritize safety. Failure to follow these instructions may result in serious injury or death.

- **Age Restriction:** Recommended for riders aged 16 and above.
- **Protective Gear:** Always wear a helmet, eye protection, gloves, long pants, and sturdy footwear.
- **Supervision:** Younger riders should always be supervised by a responsible adult.
- **Pre-Ride Inspection:** Before each ride, check brakes, tire pressure, chain tension, and ensure all fasteners are tight.
- **Riding Environment:** Ride only in designated off-road areas. Avoid public roads, uneven terrain, and areas with obstacles.
- **Fuel Handling:** Gasoline is highly flammable. Refuel in a well-ventilated area with the engine off and cool. Do not smoke while refueling.
- **Weight Limit:** Do not exceed the maximum rider weight of 220 lbs.
- **Proposition 65 Warning:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

3. PACKAGE CONTENTS

Upon unpacking, verify that all items are present:

- MotoTec X4 150cc Dirt Bike (partially assembled)
- Keys
- Instruction Manual (this document)

4. SETUP AND ASSEMBLY

The MotoTec X4 150cc Dirt Bike requires some assembly. It is recommended that assembly be performed by an individual with mechanical experience.



Figure 2: Front view of the dirt bike, showing components requiring assembly.

1. **Unpacking:** Carefully remove all components from the packaging. Inspect for any shipping damage.
2. **Handlebar Installation:** Attach the handlebars to the triple clamps. Ensure they are centered and tightened securely.
3. **Front Wheel Installation:** Install the front wheel, ensuring the axle is properly seated and tightened. Verify brake caliper alignment.
4. **Front Fender Installation:** Mount the front fender.
5. **Fluid Checks:** Check engine oil levels. The bike is shipped with initial oil, but it is highly recommended to drain and replace with fresh engine oil suitable for 4-stroke engines before first use.
6. **Greasing:** Grease all moving parts, including axles and suspension linkage points, to ensure smooth operation and longevity.
7. **Fastener Check:** Thoroughly inspect all nuts, bolts, and fasteners for proper tightness. Re-tighten as necessary.
8. **Chain Tension:** Adjust the drive chain tension to the recommended specifications. The chain should not be excessively tight.
9. **Fuel:** Fill the fuel tank with appropriate gasoline.

5. OPERATING INSTRUCTIONS

Familiarize yourself with the controls before attempting to ride.



Figure 3: Side view of the dirt bike, illustrating key operational components.

1. Starting the Engine:

- Ensure the fuel petcock is in the 'ON' position.
- Turn the ignition key to the 'ON' position.
- If the engine is cold, engage the choke.
- Press the electric start button or use the kick start lever.
- Once started, disengage the choke as the engine warms up.

2. Shifting Gears: The bike features a 5-speed manual transmission with a clutch lever (1-N-2-3-4-5).

- Pull the clutch lever fully.
- Shift the gear lever.
- Slowly release the clutch lever while applying throttle to engage the gear.

3. Braking: The bike is equipped with front and rear disc brakes.

- Apply both front and rear brakes smoothly and simultaneously for effective stopping.
- Avoid sudden or harsh braking, especially on loose surfaces.

4. Stopping the Engine: Turn the ignition key to the 'OFF' position or use the engine kill switch.

6. MAINTENANCE

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



Figure 4: Engine and carburetor detail, showing areas for inspection and maintenance.

- **Oil Change:** Change the engine oil frequently, especially after the initial break-in period. Refer to the engine specifications for recommended oil type (e.g., Summer, Winter grades).
- **Air Filter:** Clean or replace the air filter regularly, particularly when riding in dusty conditions.
- **Chain Maintenance:** Keep the drive chain clean, lubricated, and properly tensioned. Adjust as needed to prevent excessive slack or tightness.
- **Brake Inspection:** Regularly check brake pads for wear and brake fluid levels. Ensure brakes are responsive.
- **Tire Pressure:** Maintain correct tire pressure as specified in the specifications section or on the tire sidewall.
- **Fastener Checks:** Periodically re-check all nuts, bolts, and fasteners for tightness. Vibrations from riding can cause them to loosen.
- **Spark Plug:** Inspect and clean or replace the spark plug as part of routine maintenance.

7. TROUBLESHOOTING

This section addresses common issues you might encounter.

- **Engine Not Starting:**
 - Check if the fuel petcock is open.
 - Ensure there is fuel in the tank.

- Verify the ignition key is 'ON' and the kill switch is in the 'RUN' position.
- Check the spark plug for fouling or damage.
- Ensure the battery for electric start is charged.
- **Fuel Leaks:** If fuel is leaking from the carburetor overflow or other areas:
 - Immediately turn off the fuel petcock.
 - Inspect fuel lines and connections for damage or loose clamps.
 - A leaking carburetor may indicate a stuck float or debris in the float bowl. Professional inspection is recommended.
- **Loss of Power:**
 - Check the air filter for clogging.
 - Inspect the spark plug.
 - Ensure proper fuel flow to the carburetor.
- **Excessive Noise/Vibration:**
 - Check for loose fasteners throughout the bike.
 - Inspect the exhaust system for cracks or loose connections.
 - Examine the chain and sprockets for wear or misalignment.

8. SPECIFICATIONS

Feature	Specification
Motor	150cc 4-Stroke Single Cylinder Air Cooled (CB150D)
Displacement	144.6 ml
Max Power	8.6 HP @ 8500 RPM
Max Torque	7.37 ft-lb @ 7500 RPM
Compression	9.2:1
Transmission	Manual Wet Multi-Plate with Clutch Lever (1-N-2-3-4-5)
Engine Start	Electric Start & Kick Start (12v battery)
Carburetor	Nibbi PE28J
Drive Train	#520 Chain (T, T Sprockets)
Fuel Tank Capacity	6.5 Liter / 1.72 Gallons
Wheelbase	1320 mm
Front Tire	80/100-19 (19 inch)
Rear Tire	100/90-16 (16 inch)
Seat Height	35 inches
Max Rider Weight	220 lbs

Ground Clearance	315mm
Frame	Central Tube High Strength Steel Frame (Chromoly steel)
Front Forks	Inverted Hydraulic Adjustable Forks 51x54x830mm, Travel 180mm
Rear Shock	Non-Adjustable Shock, Travel 90mm
Swing Arm	560mm Steel
Rims	1.6x19, 2.15x16 Aluminum Gravity Cast
Front Brake	Dual Piston, 240mm Disc
Rear Brake	Single Piston, 240mm Disc
Dimensions (L x W x H)	76 x 32 x 47 inches
Dry Weight	231 lbs
Top Speed	56 mph (with adjustable speed limiter)
Recommended Age	16+

9. WARRANTY INFORMATION

The MotoTec X4 150cc Dirt Bike comes with a **60-day parts replacement warranty**. This warranty covers manufacturing defects in parts. Please retain your proof of purchase for warranty claims. For specific terms and conditions, refer to the warranty documentation included with your product or contact MotoTec customer support.

10. SUPPORT

For further assistance, technical support, or to order replacement parts, please contact MotoTec customer service. Contact information can typically be found on the MotoTec website or on your purchase receipt.

When contacting support, please have your model number (MT-DB-X4-150cc) and purchase date readily available.