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Weima WM7BL-400

Weima WM7BL-400 Mini-Dumper Instruction Manual

Model: WM7BL-400

1. Introduction

The Weima WM7BL-400 is a versatile mini-dumper designed for efficient transportation of various loads up to 400 kg. This unit is equipped with a reliable Weima WM168FB/P gasoline engine, a belt clutch for simplified maintenance, and a four-speed gearbox (3 forward, 1 reverse) to optimize speed for different tasks. Featuring 4.00 - 8 inch tires and a manual tipping system, the WM7BL-400 offers excellent maneuverability and productivity, making it suitable for use in gardens, greenhouses, farms, and construction sites. This manual provides essential information for the safe and effective operation, maintenance, and troubleshooting of your mini-dumper.



Figure 1: Front view of the Weima WM7BL-400 Mini-Dumper. This image shows the overall design of the dumper, including the red tipping bucket and the robust tires.

2. Safety Information

Operating the Weima WM7BL-400 requires adherence to safety precautions to prevent injury or damage. Always read and understand this manual before operation.

- **Read the Manual:** Familiarize yourself with all controls, safety decals, and operating procedures.
- **Personal Protective Equipment (PPE):** Always wear appropriate safety gear, including sturdy footwear, gloves, eye protection, and hearing protection.
- **Work Area:** Ensure the operating area is clear of bystanders, children, and pets. Maintain a safe distance from obstacles.
- **Fuel Handling:** Handle gasoline with extreme care. Refuel in a well-ventilated area with the engine off and cool. Do not smoke while refueling.
- **Engine Off:** Always turn off the engine, remove the spark plug cap, and allow the machine to cool before performing any maintenance, adjustments, or clearing blockages.
- **Slope Operation:** Exercise extreme caution when operating on slopes. Avoid steep inclines and always operate across slopes, not up and down, if possible.
- **Load Capacity:** Do not exceed the maximum load capacity of 400 kg. Overloading can lead to loss of control and damage.
- **Modifications:** Do not modify the machine. Unauthorized modifications can compromise safety and void the

warranty.

- **Stability:** Be aware of the machine's center of gravity, especially when loaded or operating on uneven terrain.

3. Setup and Initial Checks

Before operating your Weima WM7BL-400, perform the following setup and initial checks:

1. **Unpacking and Inspection:** Carefully unpack the dumper and inspect it for any shipping damage. Ensure all components listed in the packing list are present.
2. **Handlebar Assembly:** If the handlebars are not pre-assembled, attach them securely according to the diagrams provided in the included German manual. Ensure all bolts are tightened.
3. **Engine Oil Level:** Check the engine oil level using the dipstick. If low, add recommended engine oil (0.6 L capacity) to the appropriate mark. Refer to the engine manual for specific oil type.
4. **Transmission Oil Level:** Verify the transmission oil level. The transmission oil capacity is 1.5 L. Ensure it is at the correct level.
5. **Fuel Tank:** Fill the fuel tank with fresh, unleaded gasoline. The fuel tank capacity is 3.6 liters. Do not overfill.
6. **Tire Pressure:** Check the tire pressure of all four 4.00 - 8 inch tires. Ensure they are inflated to the manufacturer's recommended pressure for optimal performance and stability.
7. **Control Levers:** Ensure all control levers (throttle, clutch, gear selector, tipping lever) move freely and return to their neutral positions correctly.



Figure 2: Side view of the mini-dumper, highlighting the engine compartment and control handles. This view is useful for identifying engine components and initial setup points.

4. Operating Instructions

Follow these steps for safe and effective operation of your mini-dumper.

4.1. Starting the Engine

1. Ensure the dumper is on a level surface and the parking brake (if equipped) is engaged.
2. Move the throttle lever to the "CHOKE" position (for cold starts) or "FAST" position (for warm starts).
3. Turn the engine switch to the "ON" position.
4. Pull the recoil starter handle firmly until the engine starts.
5. Once the engine starts, gradually move the choke lever to the "RUN" position. Allow the engine to warm up for a few minutes before operation.

4.2. Driving the Mini-Dumper

1. With the engine running, select the desired gear using the gear selector lever (3 forward, 1 reverse). Start in a low gear for heavy loads or uneven terrain.
2. Slowly engage the clutch lever. The dumper will begin to move.
3. Control speed using the throttle lever.
4. Steer the dumper by gently guiding the handlebars. Be mindful of the minimum turning radius of 2.5 meters.
5. To stop, disengage the clutch and apply the brake lever.

4.3. Loading and Unloading

- **Loading:** Load materials evenly into the tipping bucket, ensuring the weight does not exceed 400 kg. Distribute the load to maintain stability.
- **Unloading:** Position the dumper at the desired unloading spot. Engage the parking brake. Use the manual tipping system to tilt the bucket up to 80 degrees, allowing the material to discharge.



Figure 3: The mini-dumper with its bucket in the tipped position, demonstrating the manual unloading mechanism. This feature simplifies material discharge.

5. Maintenance

Regular maintenance ensures the longevity and optimal performance of your Weima WM7BL-400. Always turn off the engine and disconnect the spark plug before performing any maintenance.

- **Engine Oil:** Check engine oil level before each use. Change engine oil after the first 5 hours of operation, then every 25-50 hours or seasonally.
- **Air Filter:** Inspect the air filter regularly. Clean or replace it more frequently in dusty conditions.
- **Spark Plug:** Inspect the spark plug annually or every 100 hours. Clean or replace as needed.
- **Transmission Oil:** Check transmission oil level periodically. Refer to the engine manual for recommended service intervals for changing transmission oil.
- **Tires:** Maintain correct tire pressure. Inspect tires for wear or damage.
- **General Cleaning:** Keep the dumper clean, especially the engine cooling fins, to prevent overheating. Remove any debris from moving parts.
- **Fasteners:** Periodically check all nuts, bolts, and fasteners for tightness and tighten as necessary.

6. Troubleshooting

This section addresses common issues you might encounter with your mini-dumper.

Problem	Possible Cause	Solution
Engine does not start	No fuel; Engine switch OFF; Choke incorrect; Faulty spark plug	Add fuel; Turn switch ON; Adjust choke; Clean/replace spark plug
Loss of power during operation	Low fuel; Clogged air filter; Overload; Incorrect engine oil level	Refuel; Clean/replace air filter; Reduce load; Check/add engine oil
Unusual vibrations or noise	Loose fasteners; Damaged components; Incorrect tire pressure	Tighten all fasteners; Inspect for damage, replace if necessary; Adjust tire pressure
Dumper does not move when clutch engaged	Incorrect gear selection; Clutch cable adjustment; Transmission issue	Select appropriate gear; Adjust clutch cable; Consult service professional

If you encounter problems not listed here or if solutions do not resolve the issue, contact a qualified service technician or the manufacturer.

7. Specifications

Detailed technical specifications for the Weima WM7BL-400 Mini-Dumper:

Feature	Specification
Model	Weima WM7BL-400
Engine Model	Weima WM168FB/P (EURO 5, single-cylinder, 4-stroke, forced cooling)
Engine Displacement	196 cm^3
Max. Engine Power	4 kW / 5.5 PS

Feature	Specification
Starting System	Recoil starter
Fuel Tank Capacity	3.6 liters
Engine Oil Volume	0.6 liters
Max. Load Capacity	400 kg
Tipping Bucket Dimensions	885 × 690 × 565 mm
Tipping System	Mechanical (up to 80°)
Max. Incline Capability	25° (unloaded)
Drive	Gear drive
Gears	3 Forward, 1 Reverse
Min. Turning Radius	2.5 m
Transmission Oil Capacity	1.5 liters
Tires	4.00 - 8 inch
Ground Clearance	130 mm
Dimensions (L×W×H)	1500 × 690 × 1050 mm
Net Weight	155 kg
GTIN	4260614712836

8. Warranty and Support

The Weima WM7BL-400 Mini-Dumper comes with a **2-year warranty**. All Weima devices are supplied with the necessary certifications. While a German manual is included with the product, this document serves as an English instruction manual.

For warranty claims, technical assistance, or spare parts, please contact your authorized Weima dealer or the manufacturer's customer support. Ensure you have your model number (WM7BL-400) and proof of purchase available when seeking support.

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