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Weima WM7B-500H

Weima WM7B-500H Crawler Dumper Instruction Manual

Model: WM7B-500H

1. Introduction

The Weima WM7B-500H mini crawler dumper is designed for efficient transport of various loads, including sand, garden waste, and bulk goods, across diverse terrains. Equipped with a hydraulic lifting system for the dump bed, this unit simplifies material handling tasks. Its robust design and powerful engine ensure reliable performance in demanding environments such as gardens, greenhouses, farms, and construction sites.

2. Safety Instructions

Always prioritize safety when operating the WM7B-500H crawler dumper. Failure to follow these instructions can result in serious injury or property damage.

- **Read the Manual:** Thoroughly read and understand this entire instruction manual before operating the dumper.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including safety glasses, hearing protection, sturdy footwear, and gloves.
- **Operator Qualification:** Only trained and authorized personnel should operate this equipment.
- **Work Area:** Ensure the work area is clear of bystanders, especially children and pets. Maintain a safe distance from obstacles and other equipment.
- **Stability:** Operate the dumper on stable, level ground whenever possible. Be aware of the maximum climbing ability and avoid excessively steep slopes, especially when loaded.
- **Load Capacity:** Do not exceed the maximum load capacity of 500 kg. Overloading can lead to instability and damage.
- **Engine Safety:** Ensure proper ventilation when operating the engine. Never refuel while the engine is running or hot.
- **Maintenance:** Perform all maintenance tasks with the engine off and cooled. Disconnect the spark plug wire to prevent accidental starting.
- **Emergency Stop:** Familiarize yourself with the location and operation of the emergency stop controls.

3. Product Overview

The Weima WM7B-500H is a compact and powerful crawler dumper designed for versatility and ease of use. Key components include the robust chassis, crawler tracks, a hydraulic dump bed, and a reliable Weima WM170F gasoline engine.

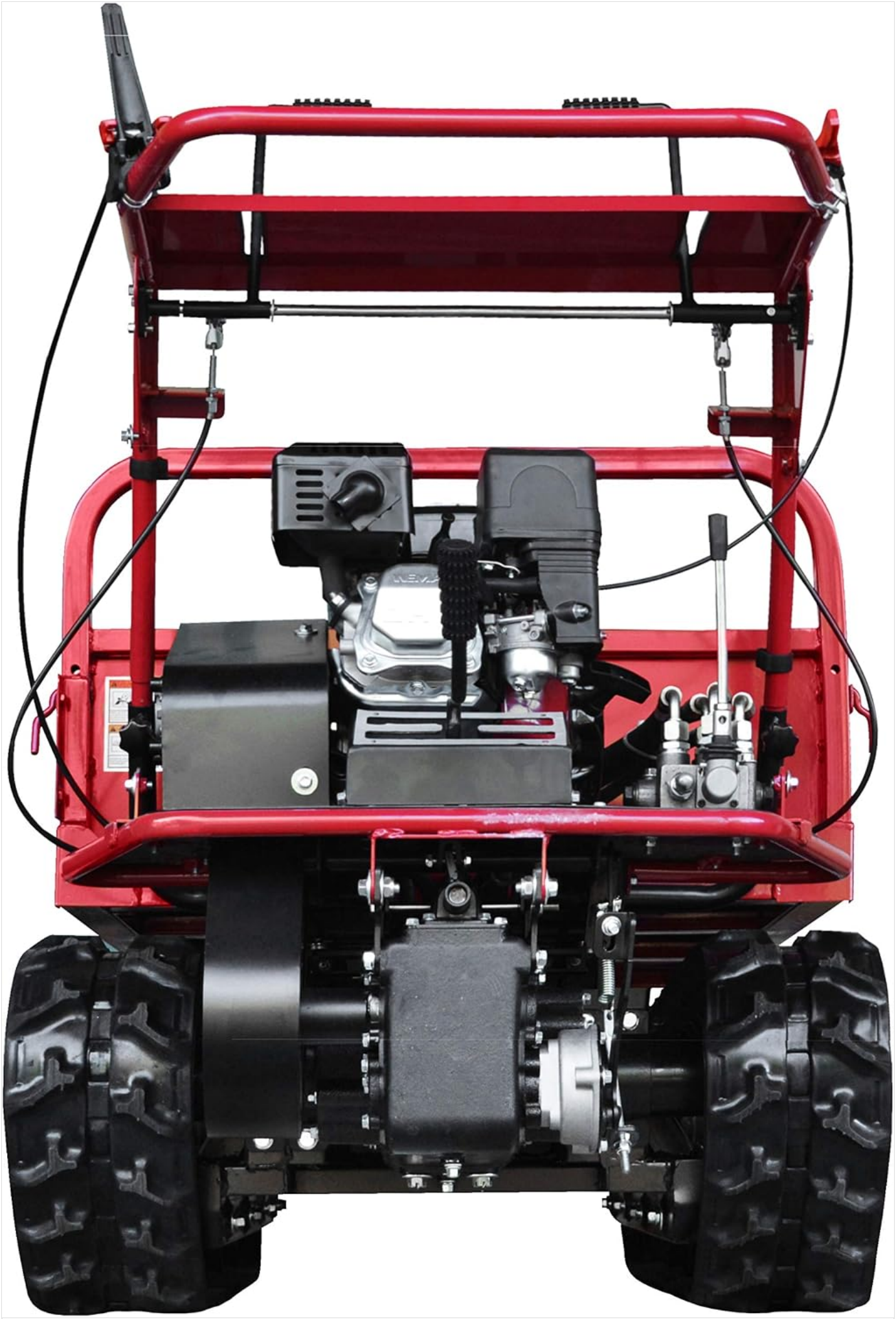


Figure 3.1: Side view of the Weima WM7B-500H Crawler Dumper, highlighting the 500kg payload capacity and track system.



Figure 3.2: Angled view of the Weima WM7B-500H, showing the dump bed and engine compartment.

Key Features:

- **Hydraulic Dump Bed:** Facilitates easy unloading of materials with a tilting device up to 50 degrees.
- **Weima WM170F Engine:** A 7 PS (5 kW), 212 cm^3 4-stroke engine provides reliable power.
- **Gear Transmission:** Features a four-speed gearbox (3 forward, 1 reverse) for optimal speed selection.
- **Expandable Loading Area:** Side panels of the dump bed can be opened to increase the loading area.
- **Crawler Tracks:** Provides excellent traction and maneuverability on various terrains.

4. Setup

Before initial operation, ensure the dumper is properly assembled and prepared.

1. **Unpacking:** Carefully remove the dumper and all components from its packaging. Inspect for any shipping damage.
2. **Assembly:** Follow the specific assembly instructions provided in the separate assembly guide (if applicable). Ensure all bolts and fasteners are securely tightened.
3. **Fluid Checks:**
    - **Engine Oil:** Check the engine oil level and fill with recommended oil (0.6 L capacity) if necessary.
    - **Transmission Oil:** Verify the transmission oil level (3.6 L capacity).
    - **Fuel:** Fill the fuel tank with unleaded gasoline (3.6 L capacity). Do not overfill.
4. **Controls Familiarization:** Locate and understand the function of all controls, including the throttle, gear shift lever, hydraulic lift lever, and emergency stop.
5. **Pre-Operation Check:** Before each use, perform a visual inspection for loose parts, leaks, or damage. Ensure tracks are free of debris.

5. Operating Instructions

Follow these steps for safe and effective operation of your Weima WM7B-500H crawler dumper.

5.1 Starting the Engine

1. Ensure the dumper is on level ground and the gear shift is in neutral.
2. Open the fuel valve.
3. Set the choke lever to the 'ON' position (cold engine).
4. Pull the recoil starter handle firmly until the engine starts.
5. Once the engine is running, gradually move the choke lever to the 'OFF' position. Allow the engine to warm up for a few minutes.

5.2 Driving the Dumper

1. With the engine running, select the desired gear (3 forward, 1 reverse) using the gear shift lever.
2. Slowly engage the clutch lever to begin moving.
3. Control speed using the throttle lever.
4. Steer the dumper using the steering levers. Pulling one lever will brake the corresponding track, allowing the dumper to turn.
5. Maintain a safe speed, especially when carrying a load or operating on uneven terrain. The minimum turning radius is 2.5 meters.

5.3 Using the Hydraulic Dump Bed

The hydraulic system allows for easy tilting of the dump bed.

1. Position the dumper at the desired unloading location.
2. Engage the hydraulic lift lever to raise the dump bed. The bed can tilt up to 50 degrees.
3. Once unloaded, lower the dump bed by engaging the hydraulic lower lever.
4. Ensure the dump bed is fully lowered and secured before moving the dumper.



Figure 5.1: The WM7B-500H with its hydraulic dump bed in the raised position for unloading.



Figure 5.2: Close-up view of the hydraulic cylinder mechanism responsible for lifting the dump bed.

5.4 Stopping the Engine

1. Move the throttle lever to the 'IDLE' position.
2. Turn the engine switch to the 'OFF' position.
3. Close the fuel valve.

6. Maintenance

Regular maintenance is crucial for the longevity and safe operation of your dumper. Always ensure the engine is off and cooled before performing any maintenance.

6.1 Daily Checks

- Check engine oil and fuel levels.

- Inspect tracks for wear, damage, or debris.
- Verify all controls operate smoothly.
- Check for any visible leaks (fuel, oil, hydraulic fluid).

6.2 Regular Maintenance (Weekly/Monthly)

- **Engine Oil Change:** Change engine oil after the first 20 hours of operation, then every 50 hours or annually.
- **Air Filter:** Clean or replace the air filter regularly, especially in dusty conditions.
- **Spark Plug:** Inspect and clean the spark plug. Replace if worn.
- **Track Tension:** Check and adjust track tension as needed to ensure proper operation and prevent premature wear.
- **Lubrication:** Lubricate all moving parts and pivot points as indicated in the detailed service manual.
- **Fasteners:** Check and tighten all nuts, bolts, and fasteners.



Figure 6.1: Detailed view of the crawler tracks and support rollers, which require regular inspection and maintenance.

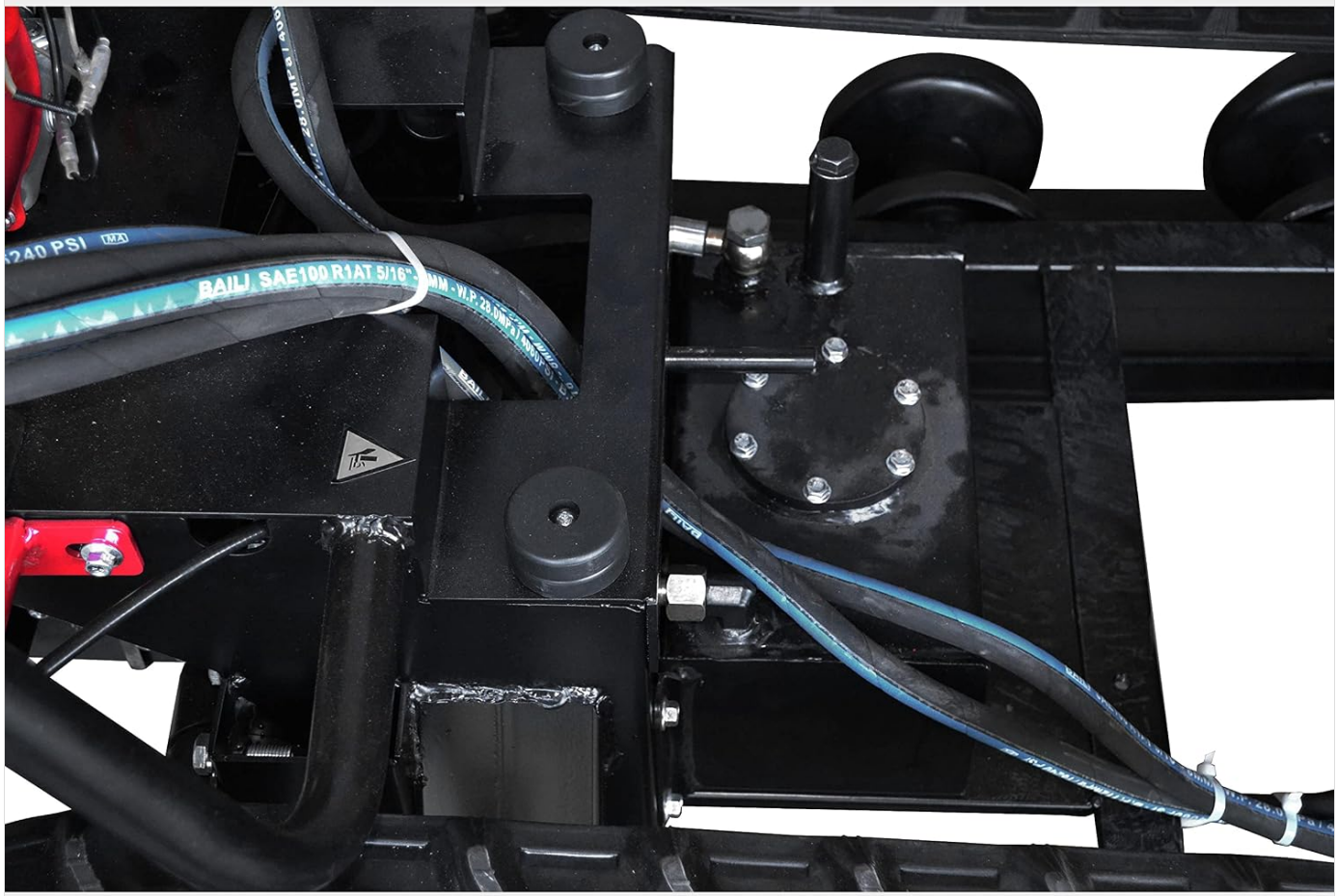


Figure 6.2: Rear view showing the Weima WM170F engine and control levers, important for fluid checks and general maintenance.

7. Troubleshooting

This section provides solutions to common operational issues. For problems not listed here, contact customer support.

Problem	Possible Cause	Solution
Engine does not start	No fuel; Choke incorrect; Spark plug faulty; Fuel valve closed	Check fuel level; Adjust choke; Clean/replace spark plug; Open fuel valve
Loss of power during operation	Air filter clogged; Low fuel; Overload	Clean/replace air filter; Refuel; Reduce load
Hydraulic dump bed not lifting	Low hydraulic fluid; Hydraulic pump issue; Control lever malfunction	Check hydraulic fluid level; Inspect pump and lines; Check lever linkage

Problem	Possible Cause	Solution
Dumper pulls to one side	Uneven track tension; Steering linkage issue	Adjust track tension; Inspect steering mechanism

8. Technical Specifications

Detailed technical data for the Weima WM7B-500H Crawler Dumper.

Feature	Specification
Model	WM7B-500H
Dump Bed Dimensions (L x W x H)	85 × 57 × 29 cm
Tilting Device	Hydraulic (up to 50°)
Maximum Load Capacity	500 kg
Maximum Climbing Ability (unloaded)	25°
Drive System	Gear transmission
Gear Shift	3 Forward, 1 Reverse
Minimum Turning Radius	2.5 m
Net Weight	290 kg
Engine Model	Weima WM170F
Engine Type	EURO 5, OHV, Single-cylinder, 4-stroke, Forced cooling
Displacement	212 cm^3
Maximum Engine Power	5 kW / 7 PS
Starting System	Recoil starter
Fuel Tank Volume	3.6 L
Engine Oil Volume	0.6 L
Transmission Oil Volume	3.6 L
Fuel Consumption	395 g / kW·h
Material	Metal
Color	Red
GTIN	06971472300971

9. Warranty and Support

Your Weima WM7B-500H crawler dumper comes with a manufacturer's warranty and dedicated support.

9.1 Warranty Information

This product is covered by a **2-year warranty** from the date of purchase. The warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims. The warranty does not cover damage due to misuse, neglect, unauthorized modifications, or normal wear and tear.

9.2 Customer Support

For technical assistance, spare parts, or warranty service, please contact your authorized Weima dealer or customer support. All Weima devices are supplied with necessary certifications and user manuals.
Please have your model number (WM7B-500H) and GTIN (06971472300971) ready 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.

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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.

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