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LDH-ME20

Generic LDH-ME20 Mini Excavator User Manual

Model: LDH-ME20 | Brand: Generic

1. Introduction

This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your Generic LDH-ME20 Mini Excavator. Please read this manual thoroughly before operating the machine to ensure proper usage and to prevent accidents or damage.
The Generic LDH-ME20 is a compact and versatile mini excavator designed for various tasks in construction, agriculture, and landscaping. It features a powerful 14HP Kubota D722 diesel engine and a robust hydraulic system.

2. Safety Information

WARNING: Failure to follow these safety instructions could result in serious injury or death.

- Always wear appropriate personal protective equipment (PPE), including hard hat, safety glasses, hearing protection, and steel-toed boots.
- Ensure the work area is clear of personnel, obstacles, and overhead power lines before starting operation.
- Never operate the excavator under the influence of alcohol or drugs.
- Perform a pre-operation inspection before each use.
- Familiarize yourself with all controls and their functions before operating the machine.
- Maintain a safe distance from trenches and unstable ground.
- Lower the bucket and turn off the engine when leaving the operator's seat.
- Refer to local regulations and safety standards for heavy equipment operation.

3. Setup and Pre-Operation Checks

Before operating your mini excavator, perform the following checks:

1. **Fuel Level:** Check the diesel fuel tank. The fuel capacity is 3.96 gallons. Use only clean diesel fuel.
2. **Engine Oil:** Verify the engine oil level using the dipstick. Add oil if necessary, referring to the engine manufacturer's specifications.
3. **Hydraulic Fluid:** Check the hydraulic fluid reservoir level. Ensure it is within the recommended range.
4. **Coolant Level:** Inspect the engine coolant level.

5. **Track Condition:** Examine the tracks for damage or excessive wear. The track width is 7.09 inches.
6. **Controls and Levers:** Ensure all control levers and pedals move freely and return to their neutral positions.
7. **Safety Switch:** Verify the functionality of the safety switch of the pilot control.
8. **Lights:** Check the LED working light for proper operation.
9. **Attachments:** Ensure the bucket and any other attachments are securely fastened.



Figure 3.1: Key components of the Generic LDH-ME20 Mini Excavator, highlighting the LED working light, bucket hydraulic cylinder, pilot control safety switch, enhanced bucket with teeth, and enhanced dozer blade.



Figure 3.2: The Kubota D1105 engine, which powers the mini excavator, rated at 14 horsepower. This image helps in locating the engine for maintenance checks.

4. Operating Instructions

Operating the mini excavator requires careful attention to controls and surroundings. Always ensure you are in a stable and comfortable position in the driving console.



Figure 4.1: The ergonomic driving console, designed for single-person operation with accessible control levers and a comfortable seat.

4.1 Starting the Engine

1. Ensure the safety switch is engaged.
2. Turn the ignition key to the 'ON' position.
3. Wait for the pre-heat indicator (if applicable) to turn off.
4. Turn the ignition key to the 'START' position until the engine fires. Release the key immediately.
5. Allow the engine to warm up for a few minutes before beginning operation.

4.2 Basic Operation

- **Driving:** Use the track control levers to move the excavator. The walking speed is 0-1.12 mph.
- **Digging:** Utilize the joystick controls for boom, arm, and bucket movements. The maximum excavation depth is 66.93 inches, and the maximum excavation radius is 120.47 inches.
- **Unloading:** Position the bucket over the desired unloading area. The maximum unloading height is 70.87 inches.

- **Dozing:** Use the dozer blade control to raise or lower the blade for grading or backfilling. The bulldozer shovel width/height is 35.71/7.87 inches.
- **Swinging:** Use the swing control to rotate the upper structure of the excavator.

Your browser does not support the video tag.

Video 4.2: This video demonstrates the mini excavator in operation, showcasing its digging capabilities and maneuverability in a work environment. It provides a visual guide to the machine's functionality.

4.3 Stopping the Engine

1. Lower the bucket and dozer blade to the ground.
2. Engage the parking brake.
3. Turn the ignition key to the 'OFF' position.
4. Remove the key.

5. Maintenance

Regular maintenance is crucial for the longevity and optimal performance of your mini excavator.

- **Daily Checks:** Perform all pre-operation checks daily.
- **Engine Maintenance:** Follow the Kubota D722 engine manual for specific service intervals for oil changes, filter replacements (fuel, oil, air), and coolant checks.
- **Hydraulic System:** Regularly inspect hydraulic hoses and fittings for leaks or damage. Replace hydraulic fluid and filters as recommended by the manufacturer.
- **Lubrication:** Grease all pivot points, pins, and bushings regularly to reduce wear.
- **Track Tension:** Check and adjust track tension as needed to prevent premature wear and ensure proper operation.
- **Cleaning:** Keep the machine clean, especially around the engine and hydraulic components, to prevent overheating and contamination.

6. Troubleshooting

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

- **Engine Fails to Start:**
  - Check fuel level.
  - Ensure battery connections are secure and the battery is charged.
  - Verify the safety switch is engaged.
  - Check for clogged fuel filters.
- **Loss of Hydraulic Power:**
  - Check hydraulic fluid level.
  - Inspect for hydraulic leaks.

- Check hydraulic filter for clogging.

- **Overheating Engine:**
  - Check coolant level.
  - Clean radiator fins.
  - Ensure fan belt is intact and properly tensioned.

- **Unusual Noises:**
  - Investigate the source of the noise immediately.
  - Could indicate loose components, worn bearings, or hydraulic issues.

If you cannot resolve an issue using these steps, contact customer support.

7. Specifications

Detailed technical specifications for the Generic LDH-ME20 Mini Excavator.



Specifications

Working weight of complete machine: 2028.25 lbs	Engine: Kubota D722
Bucket capacity: 1.06 ft³	Maximum power: 14 hp
Walking speed low/high: 0-1.12 mph	Theoretical fuel consumption: 0.13-0.32 gal/h
Climbing ability: 15%	Rated set pressure of main pump: 3625.94 psi
A Maximum excavation height: 100.79 in	Maximum flow of main pump: 5.71 gal/min
B Maximum unloading height: 70.87 in	Multiple valve: 4 Mechanical+4 Hydraulically Controlled
C Maximum excavation depth: 66.65 in	
E Maximum excavation radius: 120.47 in	SHIPPING DIM: 115.16" x 37.72" x 95.35"
Bulldozer shovel width/height: 35.71/7.87 in	SHIPPING WEIGHT: 2535 lbs

Figure 7.1: Overview of the mini excavator with a comprehensive list of its technical specifications.

Specification	Value
Model Number	LDH-ME20
Engine Model	Kubota D722
Rated Power/Speed	14HP / 3600rpm
Fuel Type	Diesel
Displacement	43.8 in^3
Fuel Capacity	3.96 gal
Bucket Capacity	1.06 ft^3
Maximum Digging Radius	120.47 in
Maximum Excavation Depth	66.93 in
Maximum Unloading Height	70.87 in
Overall Machine Size (LxWxH)	115.2" x 40" x 95.3"
Track Width	7.09 in
Shipping Weight	2535 lbs
Material	Alloy Steel
Operation Mode	Hydraulic

8. Warranty and Support

The manufacturer is committed to providing quality products and reliable customer support.

- **Satisfaction Guarantee:** The product relies on excellent quality.
- **Customer Service:** Our team is available 24 hours a day to assist with any questions or concerns.
- **Returns and Exchanges:** A 7-day return and exchange service is provided to ensure peace of mind with your purchase.

For technical assistance, parts, or warranty inquiries, please contact our customer support team through the vendor's contact information provided at the point of purchase.

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