GZWSGHH 987699

GZWSGHH Excavator Demolition Hydraulic Hammer Breaker Instruction Manual

Model: 987699

1. Product Overview

The GZWSGHH Hydraulic Hammer Breaker is designed for efficient demolition tasks, suitable for mini excavators ranging from 0.6 to 1.5 tons. This robust attachment utilizes nitrogen hybrid power to deliver strong striking force, making it ideal for breaking concrete, pavement, masonry, and frozen ground. Its design emphasizes reliability and ease of use for various landscaping, construction, and light demolition applications.

Figure 1.1: GZWSGHH Hydraulic Hammer Breaker with included accessories and a mini excavator for scale.

2. Safety Information

Always prioritize safety when operating heavy machinery and attachments. Failure to follow safety guidelines can result in serious injury or property damage.

- **Read the Manual:** Thoroughly read and understand this entire instruction manual before installation, operation, or maintenance.
- **Personal Protective Equipment (PPE):** Always wear appropriate PPE, including hard hat, safety glasses, hearing protection, heavy-duty gloves, and steel-toed boots.
- **Machine Compatibility:** Ensure the hydraulic breaker is compatible with your excavator's weight class (0.6-1.5 tons) and hydraulic system specifications (flow rate, pressure).

- **Pre-Operation Check:** Before each use, inspect the breaker for any damage, loose connections, or leaks. Verify all pins and fasteners are secure.
- **Work Area Safety:** Clear the work area of bystanders, debris, and hidden utilities. Maintain a safe distance from the demolition site.
- **Hydraulic System Safety:** Relieve hydraulic pressure before connecting or disconnecting hoses. Be aware of high-pressure fluid hazards.
- **Proper Operation:** Do not operate the breaker if it is not functioning correctly. Avoid prolonged blank firing (operating without contact with material).
- **Transportation:** Securely attach the breaker to the excavator during transport.

3. Components and Accessories

The GZWSGHH Hydraulic Hammer Breaker package includes the following items:

- 1 x Hammer Body
- 2 x Mounting Pins
- 2 x Chisels (Demolition Tool Bits)
- 1 x Nitrogen Bottle (for charging accumulator)
- 2 x Hydraulic Hoses
- 1 x Tool Kit
- 1 x Pressure Gauge

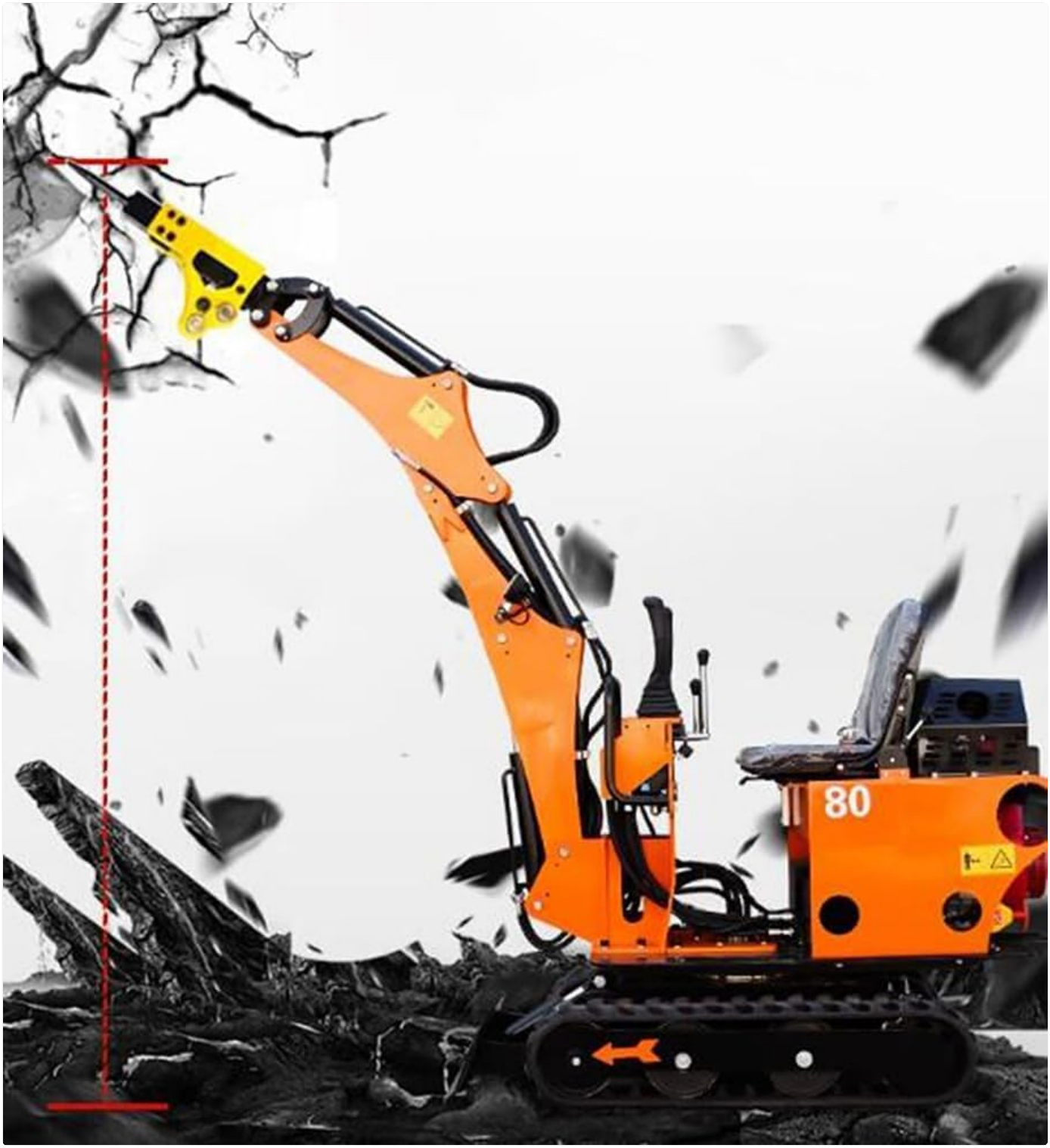

Figure 3.1: The main hammer body with a chisel installed.

4. Setup and Installation

Proper installation is crucial for safe and effective operation.

1. **Prepare Excavator:** Park the excavator on level ground, lower the boom, and shut off the engine. Engage the parking brake.
2. **Relieve Hydraulic Pressure:** Follow your excavator's manual to relieve all hydraulic pressure from the auxiliary lines.
3. **Attach Breaker:** Align the breaker's mounting bracket with the excavator's quick coupler or pin points. Insert the mounting pins and secure them with appropriate fasteners.

4. **Connect Hydraulic Hoses:** Connect the hydraulic hoses from the breaker to the excavator's auxiliary hydraulic lines. Ensure connections are tight and free of leaks. Refer to the excavator's manual for correct port identification (pressure and return lines).
5. **Install Chisel:** Insert the appropriate chisel into the breaker's tool holder. Secure it with the retaining pin or wedge system.
6. **Check Nitrogen Pressure:** Use the provided pressure gauge to check the nitrogen pressure in the breaker's accumulator. Adjust if necessary according to the specifications in Section 8. This step is critical for optimal performance and longevity.

Figure 4.1: The hydraulic breaker properly mounted on a mini excavator.

5. Operating Instructions

Follow these guidelines for effective and safe operation of the hydraulic breaker.

1. **Start Excavator:** Start the excavator and allow the hydraulic system to warm up to operating temperature.
2. **Positioning:** Position the excavator so the breaker is perpendicular to the material to be broken. Apply downward pressure to ensure the chisel makes firm contact.
3. **Begin Breaking:** Activate the auxiliary hydraulic circuit to begin the breaking action. Apply consistent, moderate downward pressure.

4. **Optimal Angle:** Maintain a 90-degree angle between the chisel and the material for maximum efficiency. Avoid excessive side loads on the chisel.
5. **Avoid Blank Firing:** Do not operate the breaker without the chisel firmly pressed against the material. Blank firing can cause internal damage to the breaker.
6. **Limit Continuous Operation:** Avoid continuous breaking in one spot for more than 30 seconds. Reposition the chisel to a new breaking point if the material does not break.
7. **Monitor Performance:** Pay attention to the sound and feel of the breaker. Unusual noises or vibrations may indicate an issue.

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Video 5.1: A short demonstration of the hydraulic breaker in action, showing its powerful breaking capability on rocky terrain.

Figure 5.1: The hydraulic breaker effectively breaking through a rock formation.

6. Maintenance

Regular maintenance extends the life of your hydraulic breaker and ensures safe operation.

- **Greasing:** Grease the chisel and tool holder regularly, typically every 2-4 hours of operation, or as specified by the manufacturer. Use high-quality chisel paste.
- **Chisel Inspection:** Inspect the chisel for wear, cracks, or bluntness. Replace worn chisels promptly to maintain efficiency and prevent damage to the breaker.
- **Hose and Connection Check:** Regularly inspect hydraulic hoses for wear, cracks, or leaks. Ensure all hydraulic connections are tight.
- **Nitrogen Accumulator:** Check the nitrogen pressure in the accumulator periodically (e.g., monthly or after 50 hours of operation). Maintain pressure within specified limits. Refer to Section 8 for pressure values.
- **General Cleaning:** Keep the breaker clean, especially around hydraulic connections and moving parts, to prevent contamination.
- **Storage:** When not in use, store the breaker in a clean, dry place. Apply a thin layer of grease to exposed metal parts to prevent corrosion.

Figure 6.1: Inspecting the chisel and lower body for wear and tear.

7. Troubleshooting

This section provides solutions for common operational issues.

Problem	Possible Cause	Solution
Low Impact Force	Low nitrogen pressure in accumulator; Worn chisel; Insufficient hydraulic flow/pressure from excavator.	Recharge nitrogen accumulator; Replace chisel; Check excavator hydraulic settings and pump.
Breaker Not Operating	Hydraulic hoses incorrectly connected; No hydraulic flow; Safety lockout engaged.	Verify hose connections; Check excavator auxiliary hydraulic activation; Disengage safety lockout.
Excessive Noise/Vibration	Loose mounting pins; Worn bushings; Operating without contact (blank firing).	Tighten mounting pins; Inspect and replace worn bushings; Ensure chisel is firmly against material before activating.
Hydraulic Leaks	Loose fittings; Damaged hoses or seals.	Tighten fittings; Replace damaged hoses or seals. Consult a qualified technician for internal leaks.

8. Specifications

Feature	Detail
Product Model	987699
Manufacturer	GZWSGHH Co., Ltd.
Compatible Excavator Weight	0.6 - 1.5 tons
Product Weight	Approximately 180 lbs (81.6 kg)
Working Pressure	80-110 kg/cm³ (1138-1564 PSI)
Flow Rate	10-30 l/min (2.6-7.9 GPM)
Impact Rate	500-1200 bpm (blows per minute)
Hose Diameter	1/2 inch
Chisel Diameter	35mm

Figure 8.1: Operational dimensions and reach capabilities.

9. Warranty and Support

For warranty information, technical support, or to order replacement parts, please contact GZWSGHH customer service. Keep your purchase receipt and product model number (987699) readily available when contacting support.

While specific warranty details are not provided in this manual, GZWSGHH is committed to product quality and customer satisfaction. Please refer to the product packaging or the seller's website for the most current warranty terms and conditions.