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LIAUHO IPGR4GF

LIAUHO Jackshaft Garage Door Opener Instruction Manual

Model: IPGR4GF

1. Product Overview

This manual provides instructions for the LIAUHO Jackshaft Garage Door Opener, a 3:1 reduced drive heavy-duty hoist designed for lifting roll-up garage doors, warehouse doors, and roller shutters. Crafted from high-quality galvanized iron, this opener offers durability and efficient operation for doors weighing up to 331 lbs (150 kg).



Image 1.1: Overview of the LIAUHO Jackshaft Garage Door Opener components and its smooth operation features, including ball bearings and a 3:1 transmission ratio.

2. Safety Information

Read all instructions carefully before installation and operation. Failure to follow these instructions may result in serious injury or property damage.

- Always wear appropriate safety gear, including gloves and eye protection, during installation and maintenance.
- Ensure the garage door is in good working condition and properly balanced before installing the opener.
- Keep hands and clothing clear of moving parts, especially the chain and gears, during operation.
- Do not allow children to operate or play near the garage door opener.
- Mount the opener securely to a stable structure capable of supporting its weight and operational forces.
- Regularly inspect the chain, gears, and mounting hardware for wear or damage. Replace worn parts immediately.

3. Product Components

The LIAUHO Jackshaft Garage Door Opener package includes the following main components:

- 1 x Garage Door Jackshaft Chain Hoist
- Chain (8m / 26ft length)
- Gear Wheel
- Mounting Bracket
- Other Accessories for Assembly

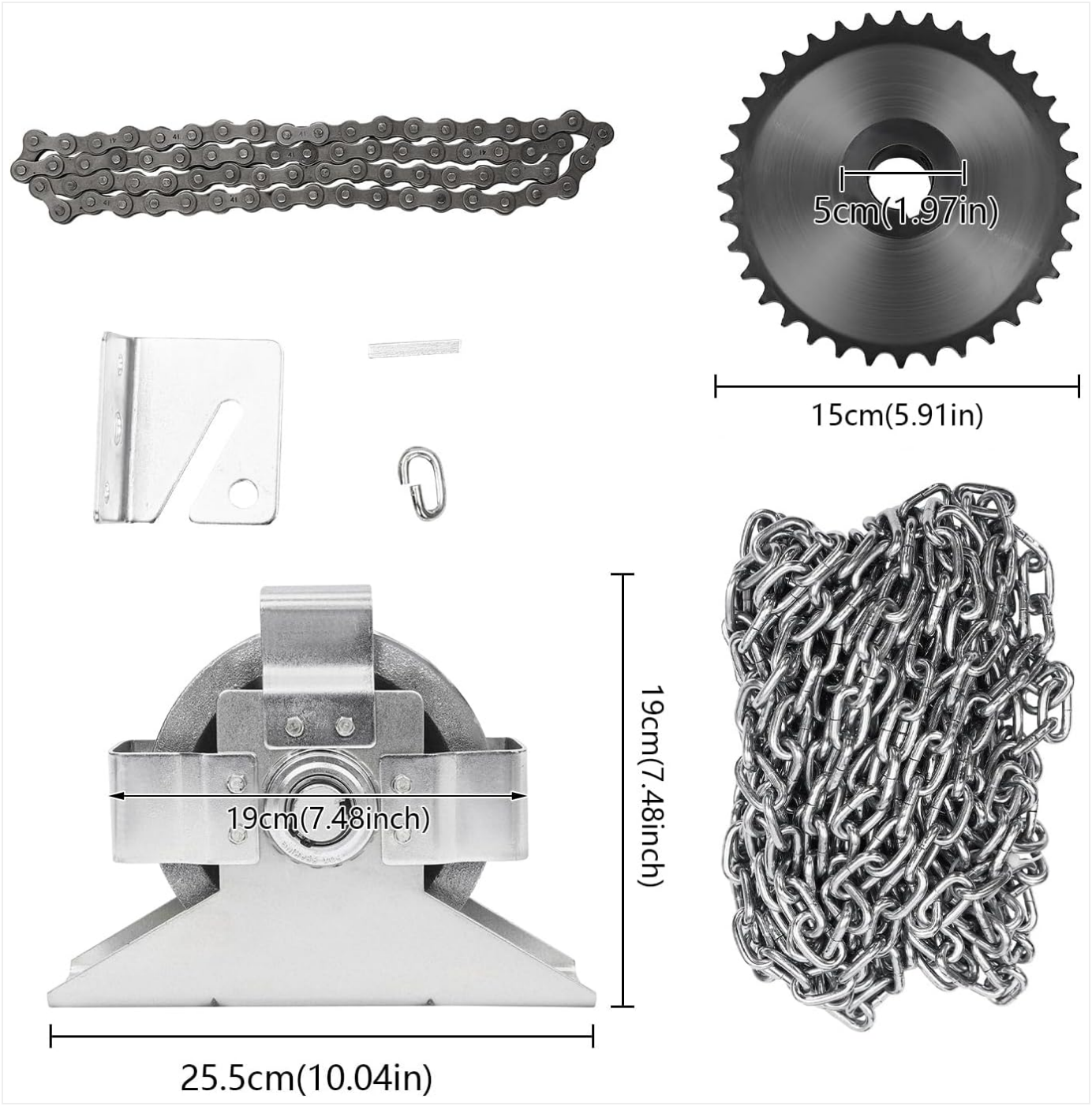


Image 3.1: Detailed view of the included components and their dimensions, including the hand puller, gear, and chain.

4. Setup and Installation

This jackshaft chain hoist is designed for freestanding installation and is suitable for vertical lift doors. Ensure you have all

necessary tools and safety equipment before beginning.

1. **Determine Mounting Location:** Identify a suitable, sturdy location on the wall adjacent to the garage door shaft. The hoist should be positioned to align correctly with the door's shaft.
2. **Secure Mounting Bracket:** Attach the mounting bracket firmly to the wall using appropriate fasteners (not included, ensure they are suitable for your wall material and the hoist's weight).
3. **Install Hoist:** Mount the jackshaft chain hoist onto the secured bracket. Ensure it is level and stable.
4. **Connect to Door Shaft:** Attach the gear wheel to the garage door's shaft. The large 5.91-inch diameter gear is designed for efficient power transfer.
5. **Install Chain:** Route the 26-foot chain around the hoist's drive sprocket and the gear wheel on the door shaft. Ensure the chain is properly tensioned but not overly tight, allowing for smooth movement.
6. **Test Operation:** Before full use, manually operate the chain to ensure the door moves smoothly up and down without obstruction or excessive friction.

Note: *For doors or vertical lift doors exceeding 14 feet in height, additional chain length may be required (sold separately).*



Image 4.1: The jackshaft garage door opener installed on a roll-up door, illustrating the 3:1 ratio and the 5.91-inch gear for easy lifting.



Image 4.2: Examples of suitable applications for the opener, including garages, warehouses, and roller shutters.

5. Operating Instructions

The LIAUHO Jackshaft Garage Door Opener features a 3:1 reduction drive system, making it easy to lift heavy doors with minimal effort.

1. **To Open the Door:** Pull the chain downwards. Due to the 3:1 transmission ratio, approximately three full pulls of the chain will raise the door by one meter.
2. **To Close the Door:** Pull the chain upwards. The ball bearings minimize friction, ensuring silent and stable door movement during both opening and closing.
3. **Smooth Operation:** The large 5.91-inch diameter gears optimize energy efficiency, reducing the physical effort required for lifting.

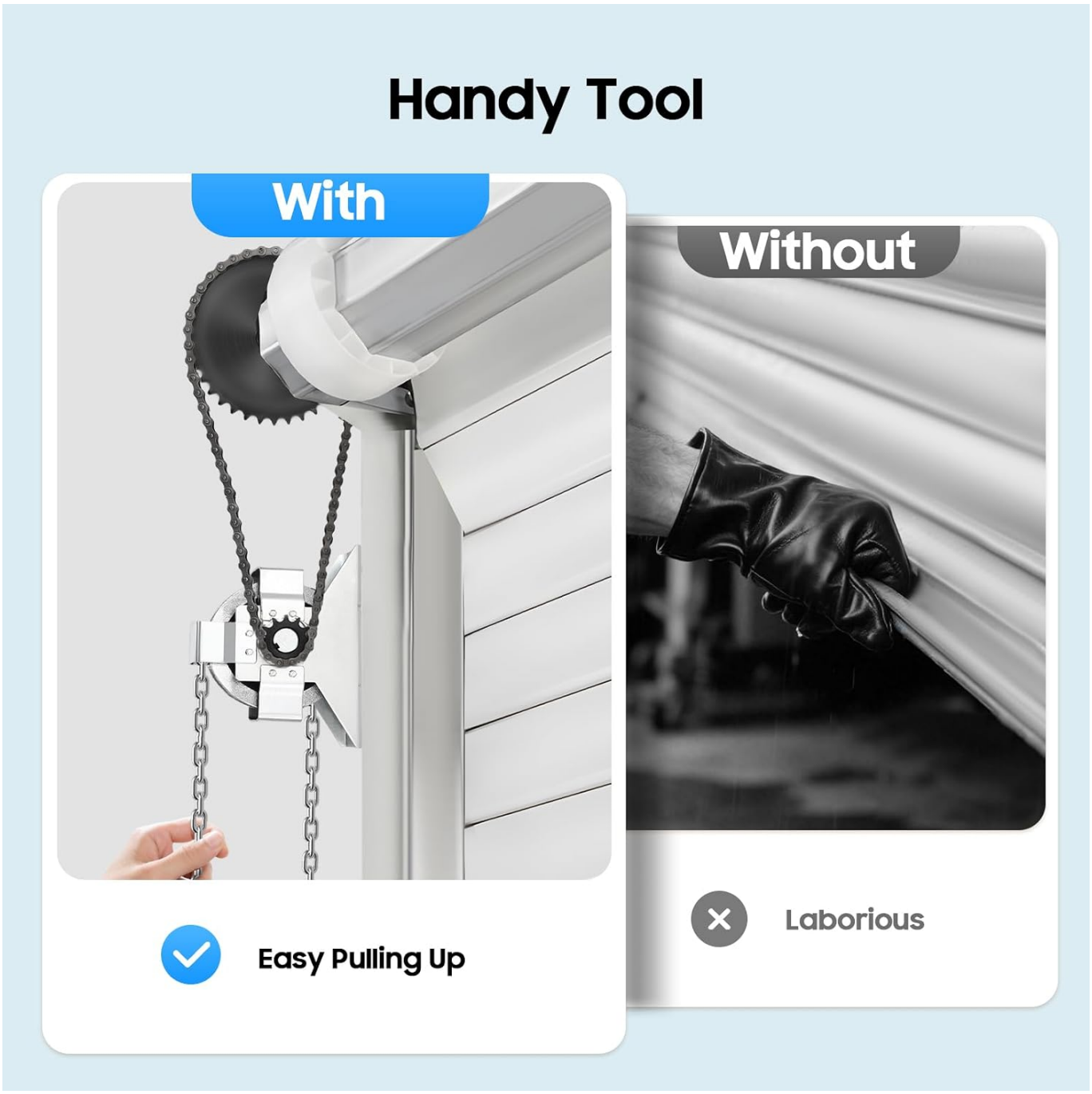


Image 5.1: Illustrates the ease of pulling up a garage door with the LIAUHO opener compared to manual lifting.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your jackshaft garage door opener.

- **Lubrication:** Periodically inspect the chain and gears for adequate lubrication. Apply a suitable lubricant designed for chains and metal gears as needed to ensure smooth operation and prevent rust.
- **Chain Tension:** Check the chain tension regularly. It should be taut enough to prevent slipping but not so tight as to cause excessive wear on the gears or bearings.
- **Inspection:** Annually inspect all components, including the chain, gears, mounting hardware, and ball bearings, for signs of wear, corrosion, or damage. Replace any worn or damaged parts immediately.
- **Cleaning:** Keep the hoist and chain free from dirt, dust, and debris, which can interfere with smooth operation.

7. Troubleshooting

If you encounter issues with your LIAUHO Jackshaft Garage Door Opener, refer to the following common troubleshooting steps:

- **Door is difficult to lift:**
  - Check if the chain is properly lubricated.
  - Ensure the chain tension is correct.
  - Verify that the garage door itself is balanced and moves freely without the hoist.
- **Excessive noise during operation:**
  - Lubricate the chain and gears.
  - Inspect for any foreign objects caught in the chain or gears.
  - Check for loose mounting hardware.
- **Chain slipping:**
  - Adjust chain tension.
  - Inspect the gear teeth for wear or damage.

8. Specifications

Feature	Specification
Brand	LIAUHO
Model Number	IPGR4GF
Material	Iron (Galvanized)
Color	Silver
Transmission Ratio	3:1
Chain Length	8m (26ft)
Load Bearing Capacity	Approx. 150kg (331lbs)
Gear Outer Diameter	15cm (5.91in)
Hand Puller Dimensions (W*H)	25.5cm * 19cm (10.04in * 7.48in)
Installation Type	Freestanding
Included Components	1*Garage Door Jackshaft Chain Hoist, Other Accessories for Assembly

9. Warranty Information

For warranty details, please refer to the specific warranty documentation provided with your purchase or contact LIAUHO customer service directly. Keep your proof of purchase for warranty claims.

10. Customer Support

If you have any questions, require technical assistance, or need to report an issue, please contact LIAUHO customer service through the retailer where the product was purchased or refer to the contact information provided in your product packaging.

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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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