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› KATOOL 15000lbs 2 Post Car Lift Instruction Manual

## KATOOL M150D

# KATOOL 15000lbs 2 Post Clearfloor Car Lift

Model: M150D / 15000lbs Lift

## 1. PRODUCT OVERVIEW

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The KATOOL 15000lbs 2 Post Clearfloor Car Lift is designed for professional and home garage use, providing robust and reliable vehicle lifting capabilities. This heavy-duty lift features a clearfloor design, dual hydraulic chain-drive cylinders, and a top-level hydraulic system for efficient and safe operation. It is engineered to handle vehicles up to 15,000 pounds, making it suitable for a wide range of automotive maintenance and repair tasks.



Figure 1.1: KATOOL 15000lbs 2 Post Clearfloor Car Lift. This image displays the complete two-post lift system, showcasing its robust black and red construction, ready for installation.

### Key Features:

- 15000lbs capacity two post lift, suitable for a wide range of vehicles.
- Symmetric clearfloor design, providing unobstructed workspace beneath the vehicle.
- Dual Hydraulic Chain-Drive Cylinders for smooth and powerful lifting.
- Top level hydraulic system with 220V/60HZ/1PH power requirement.
- Includes screw-on pad and extension support adaptor sets (+100mm) for versatile vehicle engagement.



Figure 1.2: Lift Dimensions and Capacity. This image highlights the lift's maximum capacity of 15,000 lbs, overall height of 176.8 inches (4490mm), and a passing width of 116 inches (2950mm), emphasizing safety, convenience, strong structure, and US team service.

## 2. SAFETY INFORMATION

Operating heavy machinery like a car lift requires strict adherence to safety protocols to prevent injury or damage. Read and understand all instructions before installation or operation.

- **Professional Installation Recommended:** Due to the complexity and safety critical nature of this equipment, professional installation by certified technicians is highly recommended.
- **Site Preparation:** Ensure the installation site has a level, reinforced concrete foundation capable of supporting the lift's weight and maximum load. Consult local building codes and engineering requirements.
- **Clearance:** Maintain adequate overhead and side clearance around the lift for safe operation and vehicle movement.
- **Electrical Requirements:** Ensure the electrical supply meets the specified 220V/60HZ/1PH requirements and is installed by a qualified electrician.

- **Load Capacity:** Never exceed the 15,000 lbs (6800 kg) maximum load capacity. Always center the vehicle on the lift arms.
- **Safety Locks:** Always engage the safety locks before working under a lifted vehicle. Never rely solely on hydraulic pressure.
- **Personal Protective Equipment (PPE):** Wear appropriate PPE, including safety glasses, gloves, and steel-toed boots, during installation, operation, and maintenance.
- **Emergency Procedures:** Familiarize yourself with emergency lowering procedures and the location of the main power disconnect.

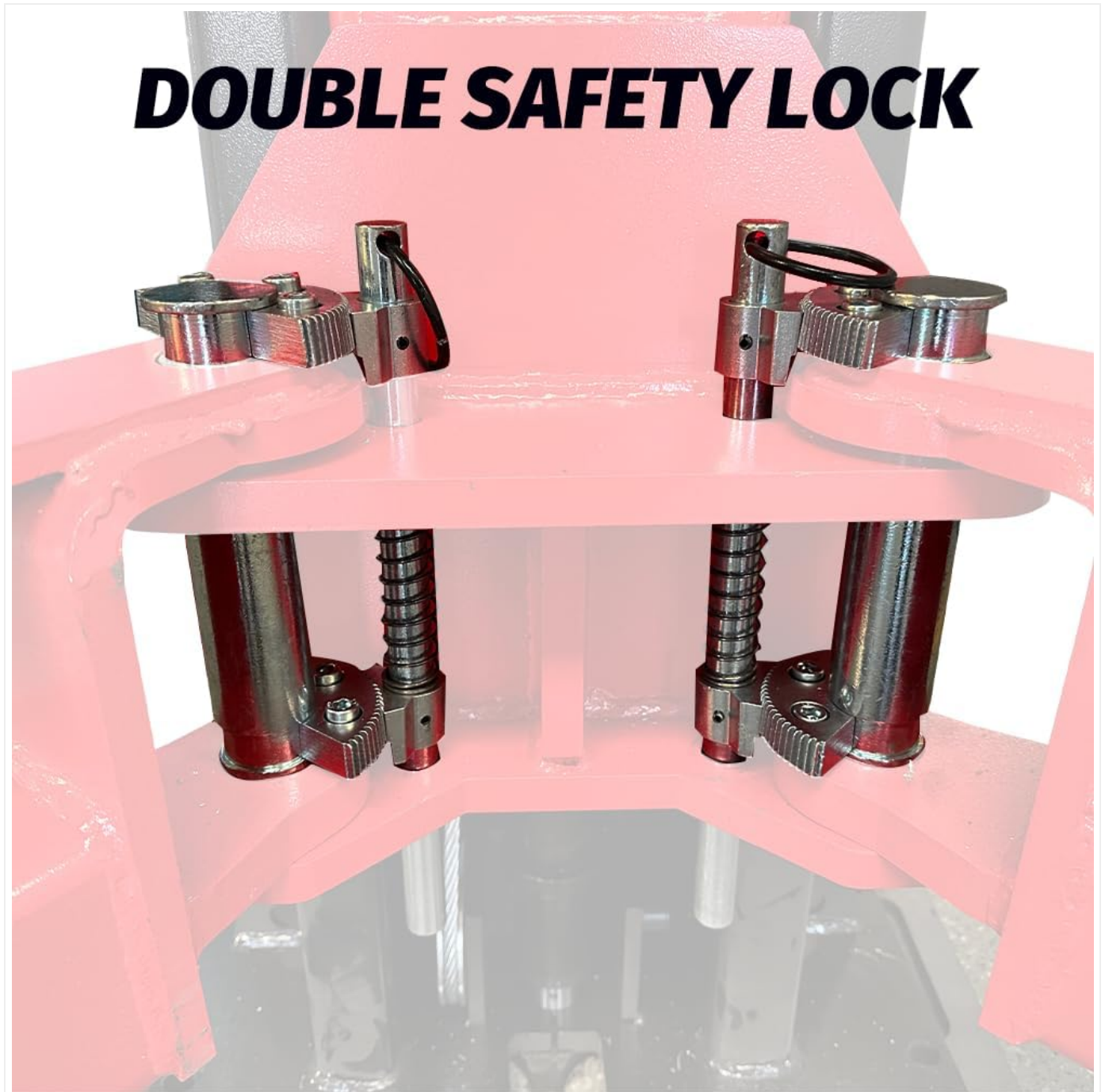


Figure 2.1: Double Safety Lock. This image shows a close-up of the double safety lock mechanism, crucial for securing the lift at desired heights and preventing accidental lowering.

### 3. COMPONENTS

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The KATOOL 15000lbs 2 Post Car Lift consists of several key components working in unison to provide safe and effective vehicle lifting.

- **Columns:** Two vertical support structures that house the lifting mechanisms.
- **Carriages:** Move up and down the columns, supporting the lift arms.
- **Lift Arms:** Adjustable arms that extend from the carriages to support the vehicle.
- **Screw-on Pads and Extensions:** Provide adjustable contact points for various vehicle frames.
- **Hydraulic Cylinders:** Dual chain-driven cylinders provide the lifting force.
- **Hydraulic Power Unit:** Contains the motor, pump, and reservoir for the hydraulic system.
- **Safety Locks:** Mechanical locking mechanisms that engage at various heights to secure the lift.
- **Equalization Cables:** Steel cables that ensure both carriages lift and lower synchronously.
- **Single Point Lock Release:** A centralized mechanism for disengaging all safety locks simultaneously.

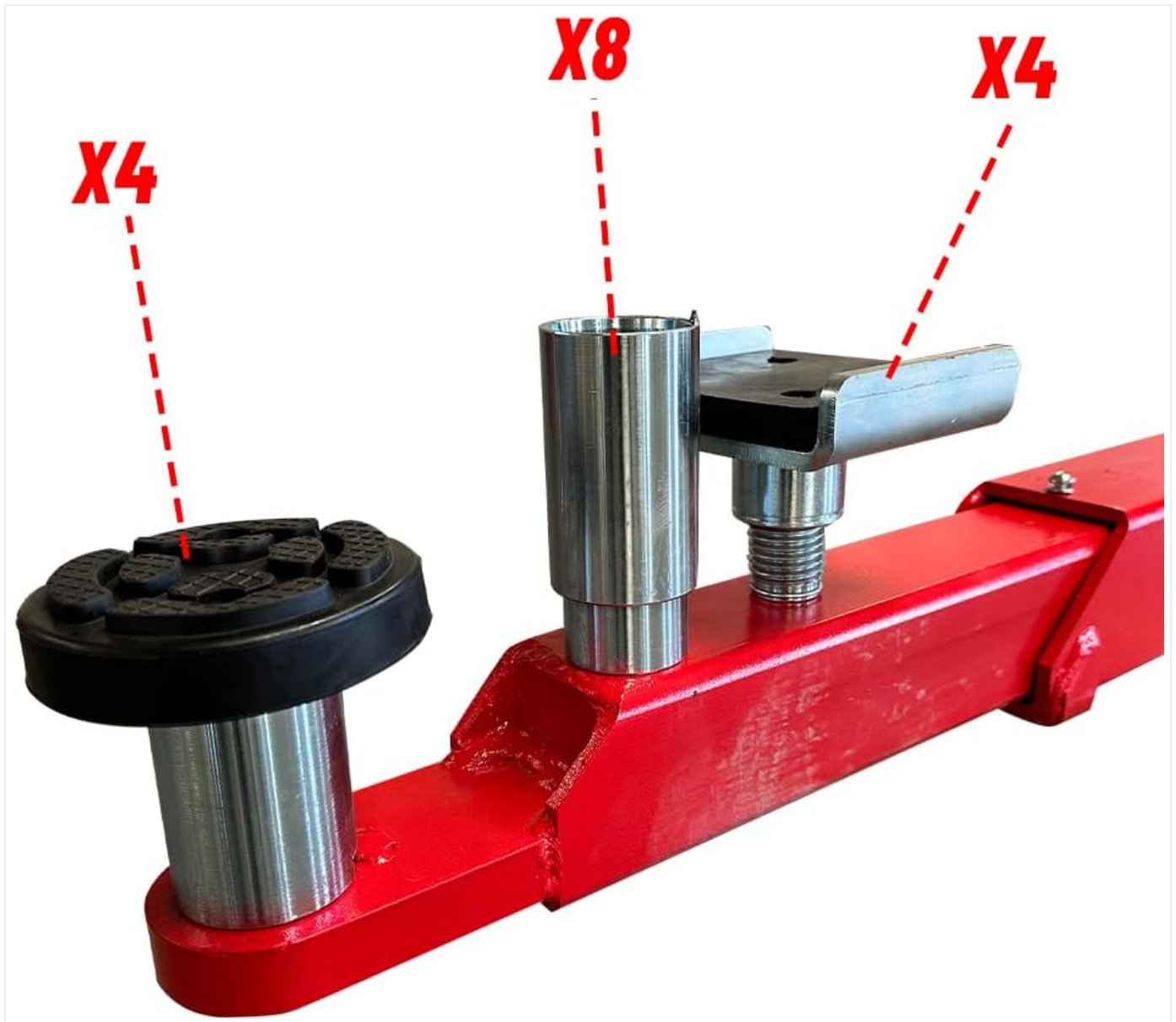


Figure 3.1: Screw-on Pad and Extension Support Adaptors. This image illustrates the various types of screw-on pads and extension adaptors (4x pads, 8x short extensions, 4x long extensions) that come with the lift, allowing for flexible vehicle engagement.



Figure 3.2: Adjustable Lift Arms. This image shows the robust, adjustable lift arms extending from the columns, designed to securely cradle a vehicle during lifting operations.

# ***SINGLE POINT LOCK RELEASE MORE SECURE***



Figure 3.3: Single Point Lock Release. This image displays the single point lock release lever, which allows for convenient and secure disengagement of all safety locks from one location.

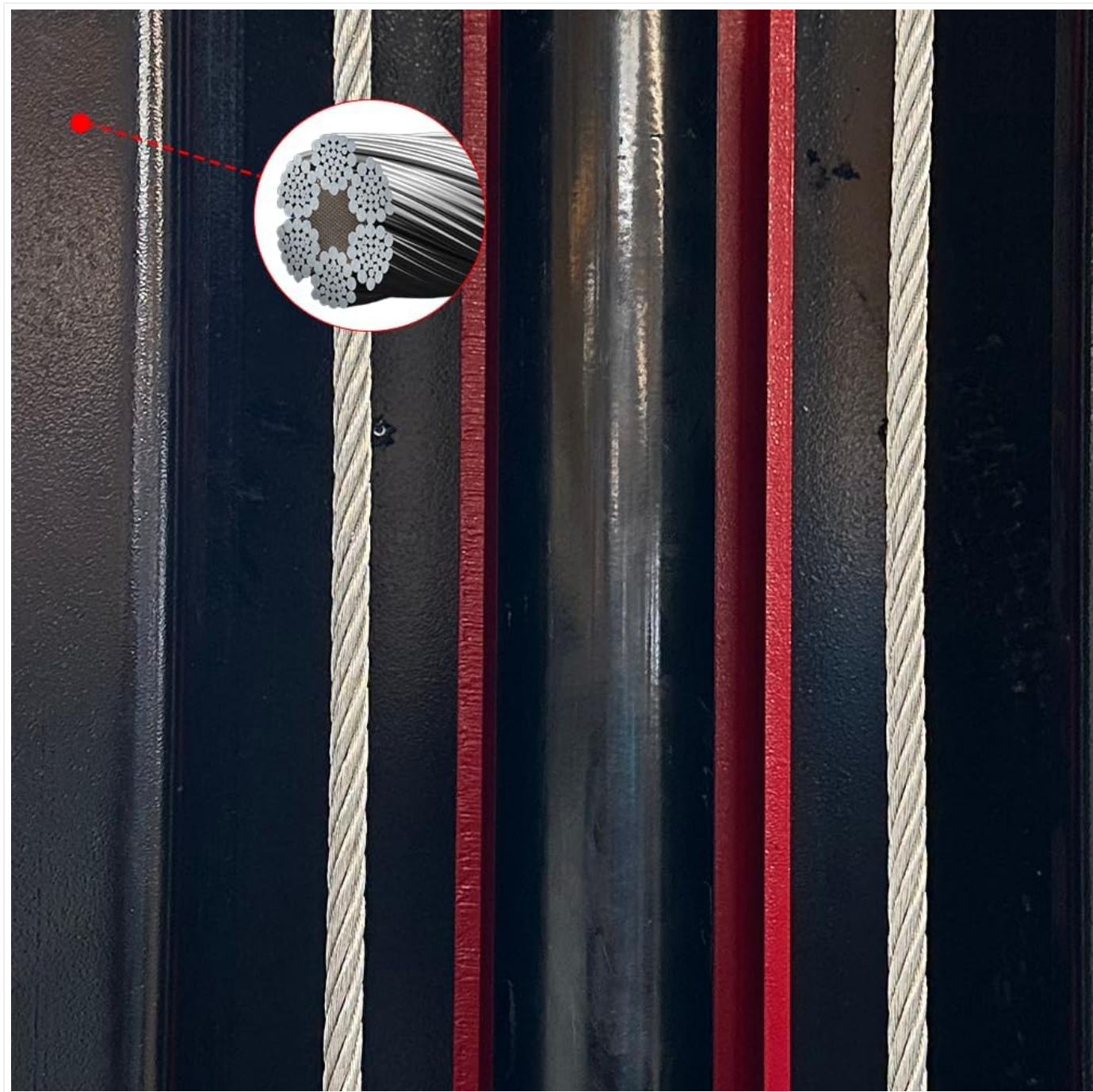


Figure 3.4: Steel Equalization Cables. A close-up view of the durable steel cables that ensure synchronized movement of both lift carriages, maintaining stability during operation.

## ***CYLINDER DIRECT DRIVE***



Figure 3.5: Cylinder Direct Drive. This image shows the hydraulic cylinder and chain-drive system, illustrating the direct drive mechanism responsible for the lift's powerful and reliable operation.

## **4. SETUP AND INSTALLATION**

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Proper installation is critical for the safe and reliable operation of your KATOOL 2 Post Car Lift. It is strongly recommended that installation be performed by qualified and experienced personnel.

### **4.1 Site Requirements:**

- **Foundation:** A level concrete floor, minimum 6 inches thick, with a compressive strength of at least 3000 PSI (20.7 MPa). Consult a structural engineer if unsure.

- **Overhead Clearance:** Sufficient height to fully raise the lift and the tallest vehicle you intend to service. Refer to specifications for maximum lift height.
- **Power Supply:** Dedicated 220V/60HZ/1PH electrical circuit with appropriate amperage and circuit protection.
- **Unloading:** Buyer is responsible for unloading the lift upon delivery. Equipment such as a forklift or tractor is required. If unable to unload, arrangements can be made for delivery to a local terminal for pickup.

## 4.2 Installation Steps (General Overview):

1. **Unpack and Inspect:** Carefully unpack all components and inspect for any shipping damage. Report any damage immediately.
2. **Position Columns:** Mark and position the two columns according to the provided dimensions in the detailed installation manual (not included here). Ensure they are perfectly plumb and aligned.
3. **Anchor Columns:** Drill holes and securely anchor the columns to the concrete floor using the specified anchor bolts.
4. **Install Carriages and Cables:** Mount the carriages onto the columns and route the equalization cables as per the manufacturer's instructions to ensure synchronized lifting.
5. **Install Hydraulic System:** Mount the hydraulic power unit, connect hydraulic hoses to the cylinders, and fill the reservoir with recommended hydraulic fluid.
6. **Electrical Connection:** Connect the power unit to the dedicated electrical supply. This step must be performed by a qualified electrician.
7. **Install Lift Arms and Pads:** Attach the adjustable lift arms and screw-on pads to the carriages.
8. **Test and Adjust:** Perform initial test lifts without a vehicle, checking for smooth operation, proper engagement of safety locks, and cable tension. Make any necessary adjustments.

## 5. OPERATING INSTRUCTIONS

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Follow these steps for safe and effective operation of your KATOOL 2 Post Car Lift.

1. **Pre-Operation Check:** Before each use, inspect the lift for any visible damage, leaks, or loose components. Ensure the area around the lift is clear of obstructions.
2. **Position Vehicle:** Drive the vehicle onto the lift, centering it between the columns. Ensure adequate clearance for the lift arms.
3. **Position Lift Arms:** Adjust the lift arms to extend and position the screw-on pads securely under the vehicle's designated lifting points. Ensure all four pads are making solid contact and the vehicle is balanced.
4. **Raise Vehicle:** Press and hold the "UP" button on the power unit. The lift will begin to raise. Observe the vehicle as it lifts to ensure stability and proper engagement.
5. **Engage Safety Locks:** Once the vehicle reaches the desired working height, lower the lift slightly until the safety locks engage. This will relieve hydraulic pressure and rest the vehicle on the mechanical locks. Never work under a vehicle supported only by hydraulic pressure.
6. **Lower Vehicle:** To lower the vehicle, ensure the area beneath is clear. Briefly raise the lift to disengage the safety locks (using the single point lock release lever). Then, press and hold the "DOWN" button or release lever to slowly lower the vehicle.
7. **Remove Vehicle:** Once the lift is fully lowered and the arms are clear, carefully drive the vehicle off the lift.

## 6. MAINTENANCE

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Regular maintenance is essential to ensure the longevity, safety, and optimal performance of your KATOOL 2 Post Car

Lift.

- **Daily/Before Use:**
  - Inspect all cables, chains, and hoses for wear, fraying, or damage.
  - Check for any hydraulic fluid leaks around cylinders, hoses, and fittings.
  - Ensure all safety locks engage and disengage properly.
- **Weekly/Monthly:**
  - Lubricate all moving parts, including chains, cables, and slide blocks, with appropriate grease or oil.
  - Check hydraulic fluid level and top off if necessary. Use only recommended hydraulic fluid.
  - Inspect anchor bolts for tightness. Re-torque if required.
  - Clean columns and carriages to prevent buildup of dirt and debris.
- **Annually:**
  - Have a qualified technician perform a thorough inspection of the entire lift system, including structural integrity, hydraulic system pressure, and electrical components.
  - Replace hydraulic fluid as per manufacturer's recommendation or if it appears contaminated.

## 7. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your KATOOL 2 Post Car Lift. For problems not listed here or if solutions do not resolve the issue, contact customer support.

| Problem                                | Possible Cause                                                              | Solution                                                                                                                              |
|----------------------------------------|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------|
| Lift does not raise.                   | No power, low hydraulic fluid, motor issue, clogged filter.                 | Check power supply and circuit breaker. Verify hydraulic fluid level. Inspect motor for operation. Clean or replace hydraulic filter. |
| Lift raises slowly or unevenly.        | Low hydraulic fluid, air in system, worn pump, unequal cable tension.       | Check fluid level. Bleed air from the system. Inspect pump. Adjust equalization cables.                                               |
| Lift drifts down after engaging locks. | Safety locks not fully engaged, internal cylinder leak, faulty check valve. | Ensure lift is lowered onto locks completely. Contact qualified technician for hydraulic system inspection.                           |
| Excessive noise during operation.      | Lack of lubrication, loose components, worn bearings in pump/motor.         | Lubricate all moving parts. Check and tighten all fasteners. Inspect pump/motor for wear.                                             |

## 8. SPECIFICATIONS

Detailed technical specifications for the KATOOL 15000lbs 2 Post Clearfloor Car Lift.

| Specification | Value               |
|---------------|---------------------|
| Load Capacity | 15000 lbs (6800 kg) |

| Specification            | Value                                                    |
|--------------------------|----------------------------------------------------------|
| Model                    | M150D (15000lbs Lift)                                    |
| Manufacturer Part Number | AS110D                                                   |
| Brand                    | KATOOL                                                   |
| Color                    | Black                                                    |
| Item Weight (Net)        | 1350 Pounds (612 kg)                                     |
| Automotive Fit Type      | Universal Fit                                            |
| Power Supply             | 220V/60HZ/1PH                                            |
| Design                   | Symmetric Clearfloor                                     |
| Lifting Mechanism        | Dual Hydraulic Chain-Drive Cylinders                     |
| Included Accessories     | Screw-on pad and extension support adaptor sets (+100mm) |

## 9. WARRANTY AND SUPPORT

For warranty information, technical support, or to order replacement parts, please contact KATOOL customer service. Refer to your purchase documentation for specific warranty terms and conditions.

If the item was damaged upon arrival, please take photos and contact KATOOL customer service immediately. Ensure to mark "damaged" on the receipt when receiving the shipment.

Visit the official KATOOL store for more information:[KATOOL Store on Amazon](#)

### 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.

Submit question

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