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## KATOOL AM120SD

# KATOOL AM120SD 12000lbs Two-Post Car Lift Instruction Manual

Model: AM120SD | Brand: KATOOL

## 1. INTRODUCTION AND OVERVIEW

This manual provides comprehensive instructions for the safe and efficient operation, installation, and maintenance of your KATOOL AM120SD 12000lbs Two-Post Car Lift. Designed for professional automotive environments, this heavy-duty lift features a 4.0HP motor and a single-point locking system for enhanced safety and productivity. Please read this manual thoroughly before installation or operation to ensure proper usage and to prevent injury or damage.



Figure 1: KATOOL AM120SD 12000lbs Two-Post Car Lift in operation, lifting a blue vehicle. This image illustrates the lift's capacity and design.

## 2. SAFETY INFORMATION

Always prioritize safety when operating heavy machinery. Failure to follow safety instructions can result in serious injury or death. Ensure all personnel are trained and aware of potential hazards.

- **Read the Manual:** Understand all operating procedures and safety warnings before use.
- **Qualified Personnel:** Only trained and authorized individuals should operate this equipment.
- **Proper Installation:** Ensure the lift is installed on a level, solid concrete foundation capable of supporting the lift's weight and maximum load.
- **Load Capacity:** Never exceed the maximum rated lifting capacity of 12,000 lbs.
- **Vehicle Placement:** Center the vehicle properly on the lift arms and ensure all four lift pads are securely positioned under the vehicle's designated lifting points.
- **Locking Mechanisms:** Always engage the safety locking mechanisms before working under the vehicle.

- **Clear Area:** Keep the area around the lift clear of obstructions and unauthorized personnel during operation.
- **Regular Inspection:** Perform daily and weekly checks as outlined in the Maintenance section.

### 3. PRODUCT FEATURES

- **Superior 12,000-lb Heavy-Duty Lifting Capacity:** Built for demanding professional environments, this 2-post lift offers an exceptional 12,000-lb lifting capacity, making it a robust solution for auto repair shops, fleet maintenance centers, and dealerships.
- **High-Efficiency 4.0HP Electric Motor System:** Equipped with a powerful 4.0HP motor, this lift provides faster rise times, smoother operation, and consistent performance under heavy loads, ensuring quick and efficient lifting.
- **Advanced Single-Point Locking System:** The innovative Single Point Lock mechanism enhances safety by securely locking the lift at various height positions, providing peace of mind during extended operations.
- **Maximum Working Height of 70.87 Inches:** With an industry-leading maximum lifting height of 70.87 inches, this model offers outstanding overhead clearance for technicians to perform repairs, maintenance, and inspections with ease.
- **Ultra-Low 4.25-Inch Minimum Height:** Featuring an ultra-low minimum lifting height of just 4.25 inches, this lift easily accommodates vehicles with extremely low ground clearance, including sports cars and lowered sedans, without requiring additional adapters or ramps.

### 4. SPECIFICATIONS

Specification	Value
Brand	KATOOL
Model	AM120SD
Load Capacity	12000 Pounds
Maximum Lifting Height	70.87 Inches
Minimum Lifting Height	4.25 Inches
Motor Power	4.0HP
Voltage	220V
Style	Hydraulic
Material	Alloy Steel
Color	Black
Item Weight	1492 pounds
Package Dimensions	118 x 30 x 18 inches
Automotive Fit Type	Universal Fit

Specification	Value
UPC	610883970262, 658808496756

## 5. SETUP AND INSTALLATION

Proper installation is crucial for the safety and functionality of your KATOOL AM120SD lift. It is highly recommended that installation be performed by qualified professionals. Refer to the detailed installation video below for visual guidance.

Video 1: WEIZE 12000LBS Car Lift Installation Video. This comprehensive video guides you through the entire installation process, from unboxing to final setup.

### Installation Steps Overview:

- 1. Unpacking and Inspection:** Carefully unbox all components. Check for any damage or missing parts.
- 2. Site Preparation:** Ensure the installation site has a level concrete floor of sufficient thickness and strength to support the lift and its maximum load.
- 3. Column Placement:** Position the two main columns according to the provided dimensions, ensuring proper spacing and alignment.
- 4. Anchoring:** Securely anchor the columns to the concrete floor using the provided expansion bolts.
- 5. Hydraulic System Setup:** Connect the hydraulic hoses and power unit. Fill the reservoir with the recommended hydraulic oil.
- 6. Cable Routing:** Route the equalization cables and safety tripwires through the columns and pulleys as instructed.
- 7. Arm Installation:** Install the lifting arms, ensuring the correct two-stage and three-stage arms are placed at the front and rear respectively.
- 8. Electrical Connection:** Connect the 220V power supply to the motor, ensuring proper grounding.
- 9. Initial Test Run:** Perform a test run without a vehicle to check for smooth operation, proper synchronization, and engagement of safety locks.

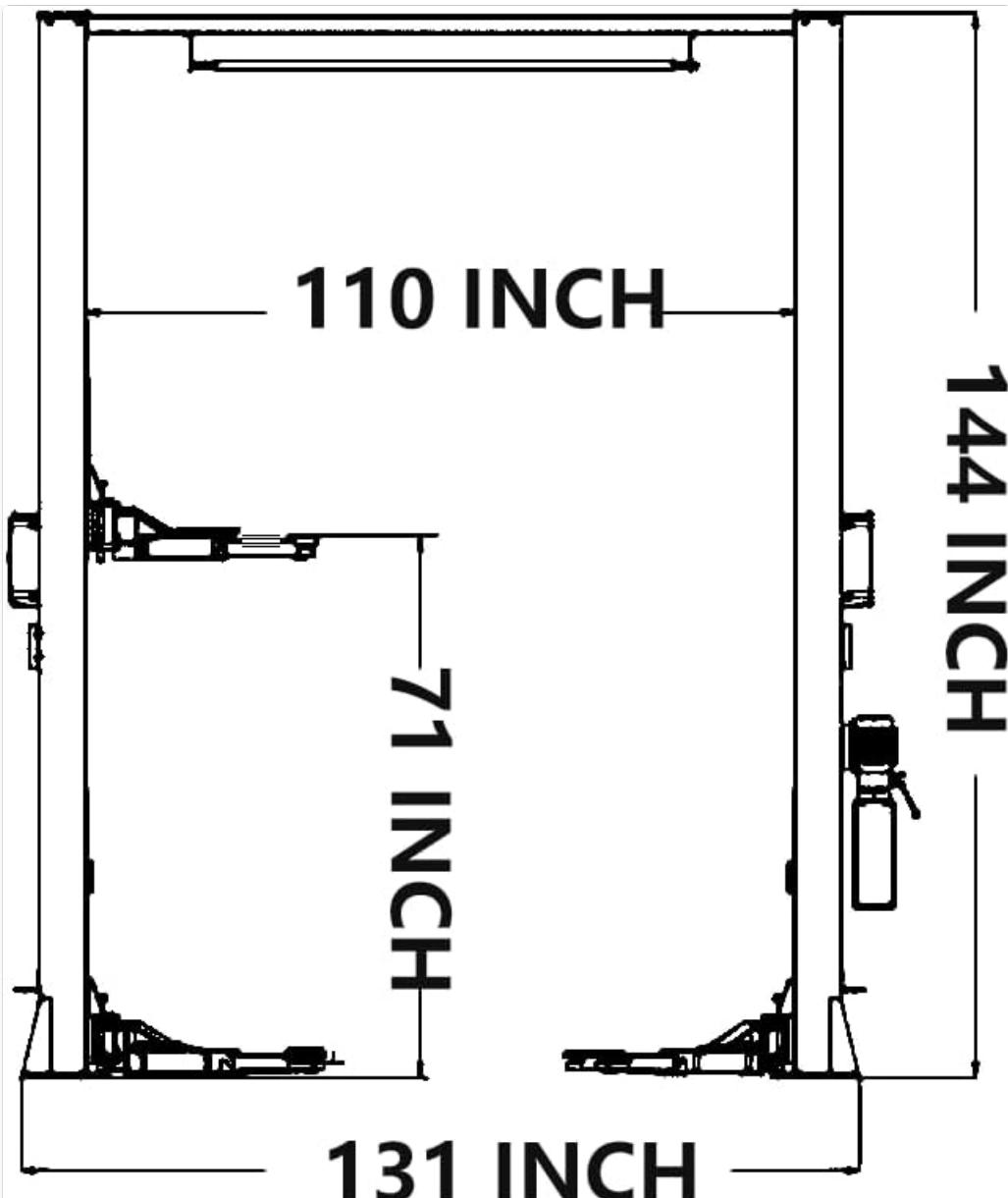


Figure 2: Dimensional diagram of the KATOOL AM120SD lift, showing total height (144 inches), width between posts (110 inches), and maximum lifting height (71 inches).

## 6. OPERATING INSTRUCTIONS

Follow these steps for safe and effective operation of your KATOOL AM120SD Two-Post Car Lift.

Video 2: KATOOL AM120SD Detail Video. This video demonstrates the lift's operation, including vehicle positioning and lifting sequence.

### Lifting a Vehicle:

- 1. Position Vehicle:** Drive the vehicle onto the lift, ensuring it is centered between the columns.
- 2. Adjust Arms:** Swing the lift arms into position under the vehicle's designated lifting points. Ensure the two-stage arms are at the rear and three-stage arms are at the front.
- 3. Adjust Lift Pads:** Adjust the height of the lift pads to make firm contact with the vehicle's frame. Use height adjustment pads as needed for vehicles with varying chassis heights.
- 4. Initial Lift:** Press the 'UP' button on the power unit to slowly raise the vehicle a few inches off the ground.

5. **Check Stability:** Carefully check that the vehicle is stable and securely supported on all four pads.
6. **Full Lift:** Continue pressing the 'UP' button to raise the vehicle to the desired working height.
7. **Engage Safety Locks:** Once at the desired height, lower the lift slightly until the safety locks engage with an audible 'click'. This transfers the load from the hydraulic system to the mechanical locks.

### Lowering a Vehicle:

1. **Raise Slightly:** Press the 'UP' button briefly to lift the vehicle off the safety locks.
2. **Disengage Locks:** Pull the single-point lock release handle to disengage the safety locks.
3. **Lower Vehicle:** Press the 'DOWN' lever on the power unit to slowly lower the vehicle. Ensure the area below is clear.
4. **Retract Arms:** Once the vehicle is fully on the ground, swing the lift arms clear before driving the vehicle off the lift.



Figure 3: The KATOOL AM120SD lift highlighting its maximum lifting height of 70.87 inches and key safety features for secure operation.

## 7. MAINTENANCE AND CARE INSTRUCTIONS

Regular maintenance is essential to ensure the longevity and safe operation of your KATOOL AM120SD lift.

### Daily Use:

- **Safety Device Check:** Check if the safety device can lock into place and if the linkage is functioning properly. Repair or replace any potential hazards promptly.

### Weekly Inspection:

- **Steel Wire Inspection:** Inspect the steel wire for looseness or broken strands.
- **Sliding Blocks:** Observe the sliding blocks on the internal platform of the columns and apply grease as needed. If wear on one side exceeds 20%, it will no longer be securely gripped by the columns and should be replaced in a timely manner.

### Bi-Weekly Check:

- **Hydraulic Hose Connections:** Inspect all hydraulic hose connections for leaks or ruptures, and repair or replace them as necessary.

### Monthly Maintenance:

- **Fastener Check:** Check if all screws and nuts are tightened properly. After a test run, retighten all screws and nuts.

## 8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter with your KATOOL AM120SD lift.

Problem	Possible Cause	Solution
Lift does not raise	No power, low hydraulic fluid, motor issue	Check power supply, add hydraulic fluid, inspect motor connections.
Lift lowers unevenly	Unequal cable tension, hydraulic leak	Adjust cable tension, check for hydraulic leaks and repair.
Safety locks not engaging	Obstruction, worn components, cable issue	Clear obstructions, inspect and replace worn parts, check cable routing.
Excessive noise during operation	Low hydraulic fluid, loose components, motor issue	Check hydraulic fluid level, tighten all fasteners, consult a technician for motor inspection.

## 9. WHAT'S IN THE Box

The KATOOL AM120SD 12000lbs Two-Post Car Lift package includes the following components:

- Two-Post Car Lift (Main Assembly)
- Power Unit (4.0HP, 220V)

- Hydraulic Hoses
- Lifting Arms (Two-stage and Three-stage)
- Lift Pads and Height Adapters
- Equalization Cables and Pulleys
- Safety Locking Mechanisms and Release Handle
- Mounting Hardware (Expansion Bolts, Nuts, Washers)
- Instruction Manual

## 10. WARRANTY AND SUPPORT

KATOOL is committed to providing high-quality products and customer satisfaction. For any questions, technical assistance, or warranty claims, please contact KATOOL Customer Support.

- **Customer Support:** For assistance, please refer to the contact information provided with your purchase or visit the official KATOOL website.
- **Protection Plans:** Extended protection plans may be available for purchase to cover your investment beyond the standard warranty.
- **Returns:** This product is eligible for 30-day easy returns. Please refer to the seller's return policy for details.