AX, AXR, AXS, AXT & AT
Series Scissors Lifts

Installation, Operation
and Service Manual

Model #_________________________
Serial #_________________________
Date Placed in Service ____________

IMPORTANT: READ CAREFULLY
BEFORE INSTALLING OR OPERATING LIFT

Part orders are subject to a $50 minimum charge.

February 2013
This manual was current at the time of printing. To obtain the latest, most updated version, please contact Presto Lifts Customer Service Department or go to our website: www.PrestoLifts.com -- you will find a complete list of current owner’s manuals to print.
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**SECTION 1**

**INTRODUCTION**

This manual attempts to provide all of the information necessary for the safe and proper installation, operation and maintenance of Presto AX/AXR/AXS/AXT/AT Series Scissors Lifts. It is important that this manual be read by all personnel involved with the installation, maintenance or operation of the scissor lift. If the manual does not address an application, call your distributor or Presto Lifts for assistance. Additional manuals are available upon request at www.PrestoLifts.com.

The scissor lift has a nameplate that provides the load capacity rating, serial number and model identification. Please refer to these numbers when ordering parts or requesting further information.

The AX/AXR/AXS/AXT/AT Series Scissor Lifts are designed for lifting, lowering and positioning a wide variety of loads. **WHERE UNIQUE SITUATIONS ARISE, THAT ARE NOT COVERED IN THIS手册, CALL YOUR DISTRIBUTOR OR PRESTO LIFTS FOR INSTRUCTIONS.**

The AX/AXR/AXS/AXT/AT Series is designed for in-plant/non-hazardous location use only.

**CAUTION!**

Hazard or unsafe practice possibly resulting in personal injury or property damage.

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**SECTION 2**

**SAFETY**

The AX/AXR/AXS/AXT/AT Series Scissor Lifts are very powerful lifts capable of doing large amounts of work. They contain scissor legs, which are pneumatically actuated and are capable of causing serious injury or damage if adequate precautions are not taken. **DO NOT INSTALL OR OPERATE THESE LIFTS WITHOUT CAREFULLY READING THIS MANUAL.** Presto Lifts, Inc. has identified certain hazards which may occur during the installation, maintenance and use of these lifts.

The following system has been established for identification of potentially unsafe conditions or practices and is used throughout this manual.

**DANGER!** – Immediate hazard that will result in severe personal injury or death.

**WARNING!** – Hazard or unsafe practice that could result in severe personal injury or death.

**CAUTION!** – hazard or unsafe practice that could result in minor personal injury or property damage.

In the interest of safety, please read the entire manual carefully. You must understand the material in this manual before you install, use, or service the unit. If you have any question about any of the instructions in this manual, please contact Presto Lifts Inc. at 1-800-343-9322.
SECTION 3
INSTALLATION

A. INSPECTION:

Upon receipt of the AX/AXR/AXS/AXT/AT Scissor Lift, inspect the equipment completely to determine if there is any damage that occurred during shipment and that the lift is complete. Do not use the lift if there appears to be any damage. Check the following with the lift in the collapsed position:

1. Check for signs of damage, especially to the Airstroke Actuator™ and pneumatic components.
2. Check all connections and nuts/bolts for tightness.
3. Check base frames for flatness and for bent or damaged metal parts.

CAUTION!
Do not operate the lift before performing the installation procedures specified in section B. Severe damage to the lift may occur.

B. INSTALLING:

1. Floor Installation

a) Make sure that the floor in the installation area is flat, stable, relatively smooth and free from dirt, obstacles or surface defects.
b) Place the lift in the exact operating position.

CAUTION!

When moving the lift never attempt to pick it up by the cover. The lift should be picked up only by the base frame only. The use of a spreader strap/sling is suggested. If the lift has lifting eyebolts, attach a chain spreader and raise the lift from a center position. Be sure that the eye bolts are secured in place with locking nuts prior to lifting.

c) Make sure that the complete base of the lift is in contact with the floor. In order to provide complete contact with the floor, the base may be shimmed or grouted.

d) The lift frame must be anchored to the floor using (4) 3/4" diameter bolts, washers and nuts.
e) Locate and lag down hand control stand or foot control so as to provide easy access. Do not obstruct the operator's work area. Make pneumatic connections according to the information contained in Section 3C.

CAUTION!

Do not spot shim. The complete base must be in contact with the floor or shims.

d) The lift frame must be anchored to the floor using (4) 3/4" diameter bolts, washers and nuts.

2. Pit Mounted Installation

a) Build pit to standard pit dimension as outlined in figure 2, paying careful attention to raceway, clearance and height requirements.
b) The remaining steps are the same as required for floor installation. See section 3B.

WARNING!

Do not install lifts in pits unless they have an approved bevel edge top and fully exhausting pneumatic circuit.
C. PNEUMATICS:

AX/AXR/AXS/AT Scissor Lifts are designed for normal factory environments. Consult the distributor for unusual applications. If your lift is equipped with a turntable positioning lock, refer to Section 6B.

**CAUTION!**

All pneumatic connections should be performed by qualified authorized service personnel.

1. The lift requires a minimum of 80 PSI, 15 CFM, and clean dry air to function correctly.
2. Be certain that supply line is turned off and residual air has been purged from the line.
3. The lift is shipped with the control line attached to the control valve (B) and detached from the lift base. Route the control line safely to the base and make the connection (C).
4. Connect the supply line to the open port of the control valve (A).
5. Open the air supply and check the entire circuit for leaks. Secure as needed. See Fig. 3.

**WARNING!**
The lift is equipped with a tamperproof pressure regulator. The regulator has been factory preset and no attempt should be made to alter the setting. Resetting of the regulator or replacement with a component not supplied by Presto Lifts will void warranty and could result in serious bodily injury.

D. TESTING THE LIFT WITH NO LOAD:

1. Before testing the lift, clear the area of any loose material. Be sure the lift has no obstruction above it or on any side. Using the controls provided, briefly operate the lift (5-10 seconds). If the lift begins to rise and functions properly, continue to the full upright position.

**CAUTION!**

If the lift does not rise immediately, or there is any operational problem, stop it immediately. Refer to the troubleshooting section and correct the problem before continuing.

2. After raising the lift completely, lower the lift completely. It should lower slowly and smoothly. If satisfied with the lift’s operation, raise and lower the lift at different levels in order to familiarize yourself with the lift’s operation.

**SECTION 4**

**OPERATION**

A. METHOD OF OPERATION:
The control valve controls the flow of air to the Air Stroke Actuator™. As the actuator is pressurized, the scissor legs are forced apart causing the tabletop to rise. As air is released from the bag, the legs collapse and the top is lowered. A factory preset flow control ensures a smooth descent at a controlled speed.

**CAUTION!**

Do not maintain the control valve in the open position if the lift does not move or it has reached its up or down limits. Damage to the pneumatic system may result.
B. OPERATION PROCEDURES:

In order to operate the lift, follow these operating procedures:

1. Read and understand all the instructions before operating. If the lift has modifications or accessories, read and understand their functions.
2. Load the lift correctly. Refer to the attached nameplate for load capacity information.
   a) Load the lift only in the fully lowered position.
   b) *Do not* load the lift while it is running.
   c) *Do not* exceed the maximum rated load (note that load capacity is reduced due to side or end loading).
   d) Place load in the center of table.
   e) If the load is unstable or may become unstable, fasten it into position.
3. Operate the lift.
   a) To raise the lift, activate the hand control valve to the “up” position. Hold the valve open until the lift reaches the desired position or the lift reaches its full extension. The valve is spring-loaded and will return to center (closed) when the lever is released.
   b) To lower the lift, activate the hand control valve to the down position. Hold the valve open until the lift descends to the desired height or the lift reaches its fully lowered position. Move the valve briefly to the up position to stop downward movement.
4. Wait until the lift has come to a complete stop before unloading the lift.
5. Stand clear of the lift when operating in order to avoid injury.

**WARNING!**

a) Load the lift only in the collapsed position.
b) *Do not* stand, sit or climb onto the lift.
c) If the lift fails to move or exhibits strange movement or sound, stop immediately. *Do not* operate the lift until it has been checked and repaired.
d) *Do not* load or unload a moving lift.
e) Obey all warning labels.

SECTION 5

MAINTENANCE

Generally, the AX/AXR/AXS/AXT/AT Series of pneumatic scissor lifts will require little maintenance. However, routine maintenance and inspection will minimize cost of repairs and hazardous conditions.

**WARNING!**

Never go under or service lift with a load on the table or with the scissor mechanism loaded. If possible, service the lift in a down position.

**WARNING!**

If the pneumatic system requires repairs, shut off and lock out the air supply. Purge the system of any pressure before beginning any repairs.

A. SAFETY CHOCKS:

The AX/AXR/AXS/AXT/AT Series Lifts are designed to be maintained and serviced in a raised position. Maintenance chocks are provided for safely locking the lift in a raised position. Refer to Figure 2.

1. Chock Installation
   a) Completely remove any load from the lift platform.
   b) Raise the lift to its full height.
   c) Slip the maintenance chock (A) in place and insert the locking pin (B). Be sure to use both chocks.
   d) Lower the lift until the rollers come in...
contact with the maintenance chock.
e) Check that the maintenance chocks are securely in place.
f) Release all air pressure from the lift. The chocks are now supporting the lift.

2. Chock Removal
   a) Raise the lift to its full height.
   b) Remove the locking pin (B) and the maintenance chock (A).
   c) Lower the lift.

B. ROUTINE INSPECTION AND MAINTENANCE:

All routine inspection maintenance should be performed on a weekly basis.

1. With the lift unloaded and its fully raised position, check the pneumatic system for leaks.
   a) Check all fittings, lines and components for escaping air.
   b) In addition to listening for an audible hissing, perform a soap bubble test.
   c) If a leak exists, repair immediately.

   WARNING!
   Safety Chocks and/or safety pins must be installed on the lift while maintenance is being performed on the lift if it is in a partially raised position. Follow chocking procedures in Section 5B. These chocks and/or pins are provided and are attached to the lift. Contact Presto Lifts, Inc. for the recommended parts, if yellow safety chocks are not available.

1. Inspect the following:
   a. Check snap ring and shield on rollers. Replace if damaged.

2. Check Air Stroke Actuator™ for any signs of wear, chafing, nicks, splits, etc. Replace as specified in Section 5 (D).

3. Check rollers for signs of wear. Replace if damaged. Clear roller track of any debris. Refer to Figure 6.

4. Check roller snap ring and shield. Replace if damaged. Refer to Figure 6.

5. Tighten all visible nuts and bolts.

6. Bearings on all lifts are permanently lubricated and do not require servicing.

Figure 3: Pneumatic connections
C. TROUBLESHOOTING MAINTENANCE:

All servicing should be done by qualified personnel who have read and understand all of the information provided in the Operating, Installation and Maintenance sections of this manual.

LIFT MOVING SLOWLY OR NOT AT ALL
1. Check for obstructions.
2. Check for incoming air supply.
3. Check circuit for air leaks, loose connection, damaged hose, etc. Listen for air escaping.
4. Is lift overloaded? Check capacity.
5. Check control valve and regulator for sticking or jamming, repair or replace.

D. REMOVAL AND INSTALLATION OF AIR STROKE ACTUATOR™:

1. Chock the lift as specified and be sure air supply is locked out.
2. Remove the S.S braided hose (20) and brass nipple (19).
3. Remove the four 3/8-16 nuts (25) with a 9/16 deep socket. The Actuator will collapse as the last nut is removed.
4. Remove the four 3/8-16 hex head bolts (22) and washers (21). The Actuator will become free of the lift and may be removed.
5. Remove the four 3/8-16 (26) hex head bolts and lock washers (23) holding the plate (28) to the Actuator.
6. Unscrew the elbow (6).
7. Finally remove the four studs (24) from the Actuator end plates.
8. Installation is the reverse of removal. Be sure to use Teflon sealant on all pneumatic connections. Pump must be replaced.

E. REMOVAL AND INSTALLATION OF HAND/FOOT CONTROL:

1. Chock the lift as specified and be sure air supply is locked out.
2. Disconnect hose (8) and supply line.
4. Remove (2) securing nuts/bolts and remove valve from stand if a hand valve.
5. Installation is the reverse of removal. Be sure to use Teflon sealant on pneumatic connections.

SECTION 6

TURNTABLE

If your lift is equipped with a rotating turntable, the following operational/maintenance procedures apply.

A. INSPECTION:
As with the basic scissor lift, inspect the unit to be sure no damage has occurred in shipment and that the unit is complete.
1. Rotate the turntable by hand to be sure the table rotates freely without binding or unusual sounds.
2. Inspect for loose/ damaged connections and nuts/bolts.
SECTION 7

PNEUMATIC POSITIONING LOCK

B. INSTALLATION (IF EQUIPPED) OF PNEUMATIC POSITIONING LOCK:
The initial pneumatic connections differ from a standard lift and are specified below. All other installation, safety and use instructions should be observed. Refer to schematic Fig. 8 and Fig. 9.

1. Connect incoming air supply to inlet (A).
2. Connect supply line (B).
3. Connect control line (C) lifting.
4. Connect control line (D) lock.

Positioning Lock:
The lock is designed for holding the turntable in place; it is not designed to stop or brake a rotating load.

1. Manually rotate the turntable to the desired position.
2. With the turntable at rest, activate the lock control valve to the “on” position. This will lock the table in place.
3. Moving the control valve to “off” will release the lock and allow the turntable to rotate.

Figure 4: Pneumatic connections with lock
Call Parts Department with model and serial number to receive a quotation.

### Pneumatic Components Replacement List
Refer to Figure 5

<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
<th>AX10</th>
<th>AX20</th>
<th>AX40</th>
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Figure 5: Pneumatic components

Figure 6: Pneumatic components with turntable
Call Parts Department with model and serial number to receive a quotation.

**Turntable Positioning Lock Components Replacement List**

Refer to Figure 6

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</tbody>
</table>
Figure 7: Standard components
Call Parts Department with model and serial number to receive a quotation.

**Turntable Positioning Lock Components Replacement List**

*Refer to Figure 7*

<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
<th>AXR10</th>
<th>AXR20</th>
<th>ARX40</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Pneumatic Valve</td>
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<tr>
<td>2</td>
<td>Nameplate</td>
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<tr>
<td>3</td>
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<td>5</td>
<td>Elbow, Street</td>
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<td>3</td>
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<tr>
<td>6</td>
<td>Fitting</td>
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<td>2</td>
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<tr>
<td>7</td>
<td>Hose</td>
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<td>Plug</td>
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<td>10</td>
<td>Hose</td>
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<td>11</td>
<td>Regulator</td>
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<td>12</td>
<td>Screw</td>
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<td>2</td>
<td>2</td>
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<tr>
<td>13</td>
<td>Nut, Machine</td>
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<td>14</td>
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<td>Tee Male</td>
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<td>Tubing</td>
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<td>Elbow, 90 degree</td>
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<td>24</td>
<td>Nut, 5/8&quot;</td>
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<td>25</td>
<td>Washer, Lock</td>
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<td>26</td>
<td>Air Positioner</td>
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<td>Pad Positioning</td>
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<td>SS Hose Assembly</td>
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<td>Valve, Hand 2 Pts.</td>
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<td>32</td>
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<td>33</td>
<td>Female Tee 1/4&quot;</td>
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</table>
Call Parts Department with model and serial number to receive a quotation.

**Mechanical Components Replacement List**
*Refer to Figure 8*

<table>
<thead>
<tr>
<th>Location</th>
<th>Description</th>
<th>AXR10</th>
<th>AXR20</th>
<th>ARX40</th>
</tr>
</thead>
<tbody>
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<tr>
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<td>Washer, Lock</td>
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<tr>
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<td>Ring, External</td>
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<td>Retaining Ring</td>
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<tr>
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<td>Bronz, Center</td>
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<tr>
<td>12</td>
<td>Screw, Shoulder</td>
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<td>1</td>
<td>1</td>
</tr>
</tbody>
</table>

Figure 8: Mechanical components
Figure 9: Pneumatic schematic AX / AT

THE SYSTEM MAY EMPLOY 1 OR MORE AIR BAG ACTUATORS DEPENDING UPON THE RATED MACHINE CAPACITY.

CONNECTIONS INTERNAL TO MACHINE

FILTER/REGULATOR
WITH GAUGE BY OTHERS
SET AT 80 PSIG
15 CFM MINIMUM

EXHAUST

RELIEF VALVE

QUICK EXHAUST VALVE

4 WAY 5 PORT
FOOT THROTTLE VALVE
HAND VALVE
SPRING CENTER

EXHAUST
Ordering Replacement Parts

Presto Lifts has carefully chosen the components in your unit to be the best available for the purpose. Replacement parts should be identical to the original equipment. Presto Lifts will not be responsible for equipment failures resulting from the use of incorrect replacement parts or from unauthorized modifications to the unit.

Presto Lifts can supply all replacement parts for your lift. With your order, please include the model number and the serial number of the unit. You can find these numbers on the name plate. This plate is located within the scissors mechanism.

To order replacement parts, please call the Presto Parts Department. Parts are shipped subject to the following terms:

- FOB factory
- Returns only with the approval of our parts department.
- Credit cards preferred (except parts covered by warranty).
- Freight collect for truck (except parts covered by warranty).
- Freight – prepaid and invoice for small parcel shipments (except parts covered by warranty).

Parts replaced under warranty are on a “charge-credit” basis. We will invoice you when we ship the replacement part, then credit you when you return the worn or damaged part.

Presto Parts Department
50 Commerce Way
Norton, MA 02766

Telephone: 800-343-9322
FAX: 888-788-6496
Email: service@PrestoLifts.com
www.PrestoLifts.com
PARTS
Standard parts may be returned with a 20% restocking fee or $35.00 net, whichever is greater. Modified or custom-engineered parts are not returnable. Unfortunately, due to potentially concealed damage, all sales of electrical assemblies are final.

QUALITY ISSUES
Should you feel there is a quality problem, please contact the seller to ask questions and gather information on how to rectify the issue. Presto Lift Inc. reserves the right to determine potential credits, as a result of factory defects, based on its inspection of the merchandise.

GENERAL
All products shipped from our factory have passed Quality Assurance inspection and testing. The carrier of choice has signed for, and accepted the product in new working condition. The customer should inspect to ensure it is not received damaged, has no concealed damage or is not incomplete. Parts orders are determined to be complete based upon Presto Lift, Inc. inspection sheets and carrier shipping weights.
RETURN GOODS AUTHORIZATION POLICY

Presto Lifts provides the Return Goods Authorization (RGA) Policy, for specific models, as a courtesy to our distributors in the event they do not receive what they ordered. If a customer wishes to return a Presto Lifts product, please contact the Customer Service Department and request an RGA number. This request must be made on or before the fifteenth calendar day following the date of Presto Lifts’ invoice for the merchandise. Not all units are returnable. Quantity orders and special designs cannot be returned under any circumstances. Presto Customer Service reserves the right for final judgment on all product returns.

The RGA number must appear on the outside of any packaging material for a return to be accepted and processed by Presto Lifts. Customers shipping returns from the Continental US, Canada, or Mexico have thirty (30) days from date of RGA issue to have the product arrive at Presto Lifts’ facility. All merchandise must arrive Free on Board at Presto Lifts’ facility or the shipment will be refused and returned to the sender. All credits are issued less restocking and refurbishing charges, regardless if the merchandise was damaged in transit.

Return addresses: please refer to your RMA for the address to which your product should be returned.

Presto Lift Inc.
715 Highway 77
Manila, Arkansas 72442

Telephone: 800-343-9322
Fax: 888-788-6496
Presto Lifts Limited Warranty Policy

Presto Lifts warrants all of its products against defects in the welded structural frame and, if applicable, scissor legs from faulty material and workmanship for a period of five (5) years from the date of invoice.

A lifetime limited warranty is provided for the Airstroke ActuatorTM in all pneumatic lifts against any defect due to faulty material or workmanship.

All other components have a limited warranty against defects in faulty material and workmanship for a two (2) year period from the date of invoice date of invoice and 30 day limited warranty on labor. Please note that prior authorization from Presto Lifts is required on all warranty work.

There are no implied warranties of any kind, more specifically, there are no warranties of merchantability or fitness for any particular purpose. Presto Lifts' sole warranty shall be as set forth in this limited warranty.

Presto Lifts will elect to repair or replace a defective component without charge, if any components should become defective within the limited warranty period. Proof of purchase is required for warranty. The charge for shipping the defective component is the responsibility of the buyer and must be accompanied with an RGA number. The shipping charge to return the component to the buyer is the responsibility of Presto Lifts, Inc.

This limited warranty does not cover labor expense for removal or reinstallation of components after thirty days. This limited warranty shall not cover, among other things: damages resulting from foreign matter or water, failure to provide reasonable and necessary maintenance, and if applicable, use of product while charger is plugged into an AC outlet, or failure to follow operating instructions. The limited warranty is not valid for damage resulting from negligence, accident, unreasonable use, abuse or misuse, exceeding data plate capacities or altering the product without Presto Lifts authorization.

Presto Lifts expressly disclaims and excludes any liability for consequential, incidental, indirect or punitive damages or financial loss to people or property resulting from any breach of warranty or the operation or failure of this product.

Presto Lifts makes no representation that this product complies with local, state, or federal safety/product standards codes. Should this product fail to comply in any way with those codes, it shall not be considered a defect of materials or workmanship. Presto Lifts shall not be held liable for any damages resulting from noncompliance. It is the dealer's responsibility to exercise this limited warranty. This limited warranty is provided to the original purchaser (defined as the original end user) and is nontransferable. This constitutes the complete and final agreement involving Presto Lifts and limited warranty obligations for products.
MANY NEEDS REQUIRE MANY OPTIONS...

LET PRESTO MEET THOSE NEEDS!

Call Presto Sales for stock or customized lift inquiries:
800-343-9322

Email: sales@prestolifts.com