

! WARNING

PLEASE READ THE ENTIRE CONTENTS OF THIS MANUAL PRIOR TO INSTALLATION AND OPERATION. BY PROCEEDING YOU AGREE THAT YOU FULLY UNDERSTAND AND COMPREHEND THE FULL CONTENTS OF THIS MANUAL. FORWARD THIS MANUAL TO ALL OPERATORS. FAILURE TO OPERATE THIS EQUIPMENT AS DIRECTED MAY CAUSE INJURY OR DEATH.

! CAUTION
The safe operating temperature range for this product is 41° F. - 104 °F.

REV E 04/26/2012
p/n 5900034

INSTALLATION AND OPERATION MANUAL

COMMERCIAL GRADE ROLLING BRIDGE JACKS

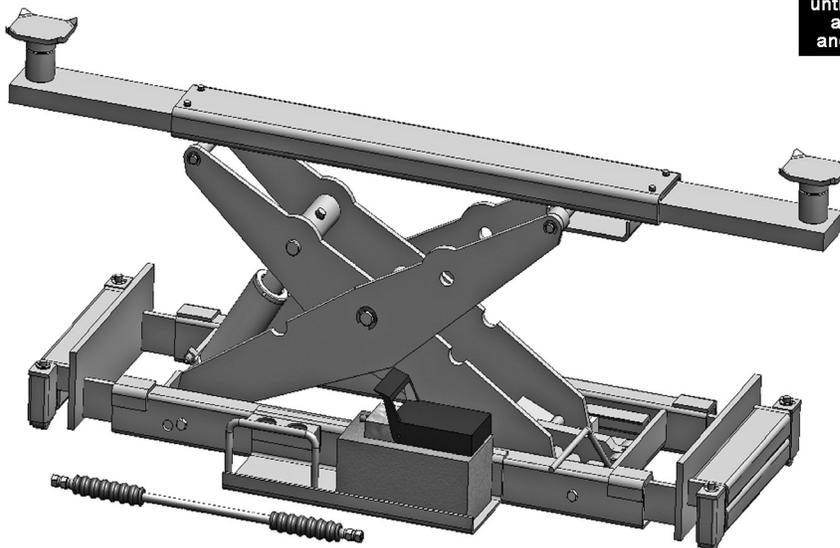
MODELS:

RJ-45; RJ-45S; RJ-6;
RJ-7; RJ-9; RJ-12;
RJ-15; RJ-18; RJ-25.

READ FIRST



Do not operate this machine until you read and understand all the dangers, warnings and cautions in this manual.



RJ-6 shown

Keep this operation manual near the machine at all times. Make sure that ALL USERS read this manual.

SHIPPING DAMAGE CLAIMS

When this equipment is shipped, title passes to the purchaser upon receipt from the carrier. Consequently, claims for the material damaged in shipment must be made by the purchaser against the transportation company at the time shipment is received.

BE SAFE

Your new lift was designed and built with safety in mind. However, your overall safety can be increased by proper training and thoughtful operation on the part of the operator. **DO NOT** operate or repair this equipment without reading this manual and the important safety instructions shown inside.



1645 Lemonwood Dr.
Santa Paula, CA. 93060, USA
Toll Free 1-800-253-2363
Tel: 1-805-933-9970
Fax: 1-805-933-9160
www.bendpak.com

This page intentionally left blank.

4,500; 6,000; 7,000; 9,000; 12,000; 15,000; 18,000; 25,000 POUND CAPACITY, COMMERCIAL GRADE ROLLING BRIDGE JACKS

This instruction manual has been prepared especially for you.
Your new jack is the product of over 35 years of continuous research, testing and development;
it is the most technically advanced lift on the market today.

READ THIS ENTIRE MANUAL BEFORE INSTALLATION & OPERATION BEGINS.

RECORD HERE THE JACK AND
POWER UNIT INFORMATION WHICH IS
LOCATED ON THE SERIAL NUMBER
DATA PLATES ON THE LIFT AND
ON THE POWER UNIT

  		
1645 Lemonwood Dr., Santa Paula, CA 93060 USA Tel: 1-805-933-9970 Fax: 1-805-933-9160 www.bendpak.com		
Model No.	Lifting Capacity	Serial No.
Date of Mfg.	Power Unit No.	Voltage / Amperage

Power Unit Model # _____
Power Unit Date Of Mfg. _____
Power Unit Serial # _____

This information is required when calling for parts or warranty issues.

PRODUCT WARRANTY

BendPak's Rolling Jack Lifts are covered under warranty for one year on equipment structure, to be free of defects in material and workmanship. Power units, hydraulic cylinders, and all other assembly components such as turnplates, slip plates, cables, chains, valves, switches etc. are covered under warranty for one year against defects in material or workmanship under normal use. BendPak Inc. shall repair or replace at their option for the warranty period those parts returned to the factory freight prepaid which prove upon inspection to be defective. BendPak Inc. will pay labor costs for the first 12 months only on parts returned as previously described.

The warranty does not extend to...

- ◆ defects caused by ordinary wear, abuse, misuse, shipping damage, improper installation, voltage or lack of required maintenance;
- ◆ damages resulting from purchaser's neglect or failure to operate products in accordance with instructions provided in the owner's manuals) and/or other accompanying instructions supplied;
- ◆ normal wear items or service normally required to maintain the product in a safe operating condition;
- ◆ any component damaged in shipment;
- ◆ other items not listed but may be considered general wear parts;
- ◆ damage caused by rain, excessive humidity, corrosive environments or other contaminants.

THESE WARRANTIES DO NOT EXTEND TO ANY COSMETIC DEFECT NOT INTERFERING WITH EQUIPMENT FUNCTIONALITY OR ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL LOSS, DAMAGE, OR EXPENSE THAT MAY RESULT FROM ANY DEFECT, FAILURE, OR MALFUNCTION OF A BENDPAK INC. PRODUCT OR THE BREACH OR DELAY IN PERFORMANCE OF THE WARRANTY.

WARRANTY IS NOT VALID UNLESS WARRANTY CARD IS RETURNED.

IMPORTANT NOTICE !

Do not attempt to install this jack if you have never been trained on basic automotive lift installation procedures. Never attempt to lift components without proper lifting tools such as forklift or cranes. Stay clear of any moving parts that can fall and cause injury. These instructions must be followed to ensure proper installation and operation of your lift. Failure to comply with these instructions can result in serious bodily harm and void product warranty. Manufacturer will assume no liability for loss or damage of any kind, expressed or implied resulting from improper installation or use of this product.

PLEASE READ ENTIRE MANUAL PRIOR TO INSTALLATION.

DEFINITIONS OF HAZARD LEVELS

Identify the hazard levels used in this manual with the following definitions and signal words:



DANGER !

Watch for this symbol: It Means: Immediate hazards which will result in severe personal injury or death.



WARNING !

Watch for this symbol: It Means: Hazards or unsafe practices which could result in severe personal injury or death.



CAUTION !

Watch for this symbol: It Means: Hazards or unsafe practices which may result in minor personal injury, product or property damage.

OWNER'S RESPONSIBILITY

To maintain the jack and user safety, the responsibility of the owner is to read and follow these instructions:

- ◆ Follow all installation and operation instructions.
- ◆ Make sure installation conforms to all applicable Local, State, and Federal Codes, Rules, and Regulations; such as State and Federal OSHA Regulations and Electrical Codes.
- ◆ Carefully check the lift for correct initial function.
- ◆ Read and follow the safety instructions. Keep them readily available for machine operators.
- ◆ Make certain all operators are properly trained, know how to safely and correctly operate the unit, and are properly supervised.
- ◆ Allow unit operation only with all parts in place and operating safely.
- ◆ Carefully inspect the unit on a regular basis and perform all maintenance as required.
- ◆ Service and maintain the unit only with authorized or approved replacement parts.
- ◆ Keep all instructions permanently with the unit and all decals on the unit clean and visible.

BEFORE YOU BEGIN

Receiving:

The shipment should be thoroughly inspected as soon as it is received. The signed bill of lading is acknowledgement by the carrier of receipt in good condition of shipment covered by your invoice. If any of the goods called for on this bill of lading are shorted or damaged, do not accept them until the carrier makes a notation on the freight bill of the shorted or damaged goods. Do this for your own protection.

NOTIFY THE CARRIER AT ONCE if any hidden loss or damage is discovered after receipt and request the carrier to make an inspection. If the carrier will not do so, prepare a signed statement to the effect that you have notified the carrier (on a specific date) and that the carrier has failed to comply with your request.

IT IS DIFFICULT TO COLLECT FOR LOSS OR DAMAGE AFTER YOU HAVE GIVEN THE CARRIER A CLEAR RECEIPT. File your claim with the carrier promptly. Support your claim with copies of the bill of lading, freight bill, invoice, and photographs, if available. Our willingness to assist in helping you process your claim does not make BendPak responsible for collection of claims or replacement of lost or damaged materials.

TABLE OF CONTENTS

<u>Contents</u>	<u>Page No.</u>
Warranty / Serial Number Information	3
Definitions of Hazard Levels	4
Owner's Responsibility	4
Before You Begin	4
Installer /Operator/ Protective Equipment	6
Introduction	7
Safety / Warning Instructions	7
Tools Required	8
Step 1 / Verifying Lift Installation	8
Step 2 / Rolling Jack Capacities	8
Step 3 / Adjusting Lift / Jack Orientation	9-10
Step 4 / Installing Jack on Rails	11-12
Step 5 / Connecting Air Supply	12
Step 6 / Test Jack / Final Adjustments	12-13
Step 7 / Operation / Maintenance	13-19
Optional Equipment Installation	20-21
Installation Form	22
Part Number Lists	23-30



DANGER !
 IT IS THE RESPONSIBILITY OF THE OWNER /
 INSTALLER OF THIS ROLLING BRIDGE JACK TO
 ENSURE THAT THE LIFT UPON WHICH THE ROLLING
 BRIDGE JACK IS INSTALLED HAS BEEN PROPERLY
 INSTALLED ACCORDING TO THE MANUFACTURER'S
 SPECIFICATIONS.

Failure to follow danger, warning, and caution instructions may lead to serious personal injury or death to operator or bystander or damage to property.



Please read entire manual prior to installation. Do not operate this machine until you read and understand all the dangers, warnings and cautions in this manual. For additional copies or further information, contact:

**INSTALLER / OPERATOR
 PLEASE READ AND FULLY
 UNDERSTAND.
 BY PROCEEDING YOU AGREE TO /
 CERTIFY THE FOLLOWING.**

BendPak Inc. / Ranger Products

1645 Lemonwood Dr.

Santa Paula, CA. 93060

1-805-933-9970

www.bendpak.com

**INSTALLER / OPERATOR
 PROTECTIVE EQUIPMENT**

◆ I have visually inspected the lift on which the Rolling Bridge Jack is to be installed and verified the lift to be in good condition and free of defects. I understand that installing a rolling jack on a lift in poor condition could cause lift failure resulting in personal injury or death.

Personal protective equipment helps makes installation and operation safer, however, it does not take the place of safe operating practices. Always wear durable work clothing during any installation and/or service activity. Shop aprons or shop coats may also be worn, however loose fitting clothing should be avoided. Tight fitting leather gloves are recommended to protect technician hands when handling parts. Sturdy leather work shoes with steel toes and oil resistant soles should be used by all service personnel to help prevent injury during typical installation and operation activities.

◆ I understand that this Rolling Bridge Jack is to be installed **ONLY** on a lift manufactured by BendPak Incorporated and that the capacity of the Rolling Bridge Jack(s) is consistent with the maximum capacity of the lift that it being installed on.

Eye protection is essential during installation and operation activities. Safety glasses with side shields, goggles, or face shields are acceptable. Everyday eyeglasses only have impact resistant lenses, they are not safety glasses. Back belts provide support during lifting activities and are also helpful in providing worker protection. Consideration should also be given to the use of hearing protection if service activity is performed in an enclosed area, or if noise levels are high.

◆ I understand that a level floor is required for proper installation and level lifting.



◆ I understand that I am responsible if my floor is of questionable slope and that I will be responsible for all charges related to pouring a new level concrete slab if required and any charges.

◆ I will assume full responsibility for the concrete floor and condition thereof, now or later, where the above equipment model(s) are to be installed. Failure to follow danger, warning, and caution instructions may lead to serious personal injury or death to operator or bystander or damage to property.

◆ I understand that BendPak lifts are designed to be installed in indoor locations only. Failure to follow installation instructions may lead to serious personal injury or death to operator or bystander or damage to property or lift.



THIS SYMBOL POINTS OUT IMPORTANT SAFETY INSTRUCTIONS WHICH IF NOT FOLLOWED COULD ENDANGER THE PERSONAL SAFETY AND/OR PROPERTY OR YOURSELF AND OTHERS AND CAN CAUSE PERSONAL INJURY OR DEATH. READ AND FOLLOW ALL INSTRUCTIONS IN THIS MANUAL BEFORE ATTEMPTING TO OPERATE THIS MACHINE.

INTRODUCTION

1. Carefully remove the crating and packing materials. **CAUTION!** Be careful when cutting steel banding material as items may become loose and fall causing personal harm or injury.

IMPORTANT SAFETY INSTRUCTIONS !

Read these safety instructions entirely!

IMPORTANT NOTICE !

Do not attempt to install this lift if you have never been trained on basic automotive lift installation procedures.

Never attempt to lift components without proper lifting tools such as forklift or cranes.

Stay clear of any moving parts that can fall and cause injury.

1. **READ AND UNDERSTAND** all safety warning procedures before operating jack.

2. **KEEP HANDS AND FEET CLEAR.** Remove hands and feet from any moving parts. Keep feet clear of lift when lowering. Avoid pinch points.

3. **KEEP WORK AREA CLEAN.** Cluttered work areas invite injuries.

4. Consider work area environment. Do not expose equipment to rain. **DO NOT** use in damp or wet locations. Keep area well lit.

5. **ONLY TRAINED OPERATORS** should operate this lift. All non-trained personnel should be kept away from work area. Never let non-trained personnel come in contact with, or operate lift.

6. **USE LIFT CORRECTLY.** Use lift in the proper manner. Never use lifting adapters other than what is approved by the manufacturer.

7. **DO NOT** override self-closing lift controls.

8. **REMAIN CLEAR** of lift when raising or lowering vehicle.

9. **CLEAR AREA** if vehicle is in danger of falling.

10. **ALWAYS ENSURE** that the safeties are engaged before any attempt is made to work on or near vehicle.

11. **DRESS PROPERLY.** Non-skid steel-toe footwear is recommended when operating lift.

12. **DANGER!** Shut off and disconnect the air supply when installing the Rolling jack pump and when the Pump is not in use or before breaking any connections in the system.



13. **MAINTAIN WITH CARE.** Keep lift clean for better and safer performance. Follow manual for proper lubrication and maintenance instructions. Keep control handles and/or buttons dry, clean and free from grease and oil.

14. **STAY ALERT.** Watch what you are doing. Use common sense. Be aware.

15. **CHECK FOR DAMAGED PARTS.** Check for alignment of moving parts, breakage of parts or any condition that may affect its operation. Do not use lift if any component is broken or damaged.

16. **NEVER** remove safety related components from the lift. Do not use lift if safety related components are damaged or missing.

17. Keep hair, loose clothing, fingers, and all parts of body away from moving parts

18. Use only as described in this manual. Use only manufacturer's recommended attachments

19. **ALWAYS WEAR SAFETY GLASSES.** Everyday eyeglasses only have impact resistant lenses, they are not safety glasses

20. **SAVE THESE INSTRUCTIONS.**

TOOLS REQUIRED

- | | |
|--|---|
| <ul style="list-style-type: none"> ◆ Hex-Key / Allen Wrench Set ◆ Medium Crescent Wrench ◆ Shop Crane or other heavy lifting device | <ul style="list-style-type: none"> ◆ Medium Flat Screwdriver ◆ Tape Measure: @ 25 Foot ◆ Air Fitting (to connect air supply) |
|--|---|

NOTE: An air supply (20 CFM (.57 M³/MIN.) AND 100 PSI / 7 BAR MINIMUM) will be required for operation.

IMPORTANT NOTE!

These instructions must be followed to ensure proper installation and operation of your Rolling Bridge Jack. Failure to comply with these instructions can result in serious bodily harm and void product warranty. Manufacturer will assume no liability for loss or damage of any kind, expressed or implied resulting from improper installation or use of this product.

PLEASE READ ENTIRE MANUAL PRIOR TO INSTALLATION !

STEP 1

(Verifying Lift Installation)



OPERATING TEMPERATURE.

Operate Rolling Bridge Jack only between temperatures of 41° -104° F.

DANGER !

IT IS THE RESPONSIBILITY OF THE OWNER / INSTALLER OF THIS ROLLING BRIDGE JACK TO ENSURE THAT THE LIFT UPON WHICH THE ROLLING BRIDGE JACK IS INSTALLED HAS BEEN PROPERLY INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

STEP 2

(Rolling Jack Capacities)



DANGER !

The AXLE WEIGHT of the vehicle being raised should not exceed the maximum capacity of the Rolling Bridge Jack. Consult the vehicle manufacturer for specifications.

Before installing your new Rolling Bridge Jack, verify the following aspects of the installation of the lift where Rolling Bridge Jacks are being installed. The aspects of the lift installation that need to be verified should include, but are not limited to;

1. LIFT LOCATION / PROPER ALIGNMENT
2. OVERHEAD OBSTRUCTIONS.
3. CORRECT FLOOR COMPOSITION/ REQUIREMENTS.
4. OPERATING TEMPERATURE.
5. INDOOR INSTALLATION ONLY.
6. OPERATION MANUALS ON HAND .
7. OPERATORS PROPERLY TRAINED.

THE MAXIMUM LIFTING CAPACITY OF THESE JACKS ARE DESCRIBED BELOW

MODEL	MAX JACK CAPACITY	MAX VEHICLE WEIGHT FRONT AXLE	MAX VEHICLE WEIGHT REAR AXLE
RJ-45/S	4,500 Lbs/ 2,041 Kgs	4,500 Lbs/ 2,041 Kgs	4,500 Lbs/ 2,041 Kgs
RJ-6	6,000 Lbs / 2,721 Kgs	6,000 Lbs / 2,721 Kgs	6,000 Lbs / 2,721 Kgs
RJ-7	7,000 Lbs / 3,175 Kgs	7,000 Lbs / 3,175 Kgs	7,000 Lbs / 3,175 Kgs
RJ-9	9,000 Lbs / 4,082 Kgs	9,000 Lbs / 4,082 Kgs	9,000 Lbs / 4,082 Kgs
RJ-12	12,000 Lbs / 5,443 Kgs	12,000 Lbs / 5,443 Kgs	12,000 Lbs / 5,443 Kgs
RJ-15	15,000 Lbs / 6,804 Kgs	15,000 Lbs / 6,804 Kgs	15,000 Lbs / 6,804 Kgs
RJ-18	18,000 Lbs / 8,165 Kgs	18,000 Lbs / 8,165 Kgs	18,000 Lbs / 8,165 Kgs
RJ-25	25,000 Lbs / 11,340 Kgs	25,000 Lbs / 11,340 Kgs	25,000 Lbs / 11,340 Kgs

STEP 3

(Adjusting Lift / Jack Orientation)

1. Following the manufacturer's instructions in the lift manual, lower the lift to the ground. (If using a shop crane, you may need to lock the lift on the first Safety Lock to make room for the legs of the Shop Crane.)

2. If adjustable, adjust the Runway of the lift to the desired width. Be sure to check the specifications of the lift and the Rolling Bridge Jacks to be sure that the Rolling Bridge Jack can be adjusted to the desired Runway width. (See Fig. 3.1 & 3.2)

Fig. 3.1

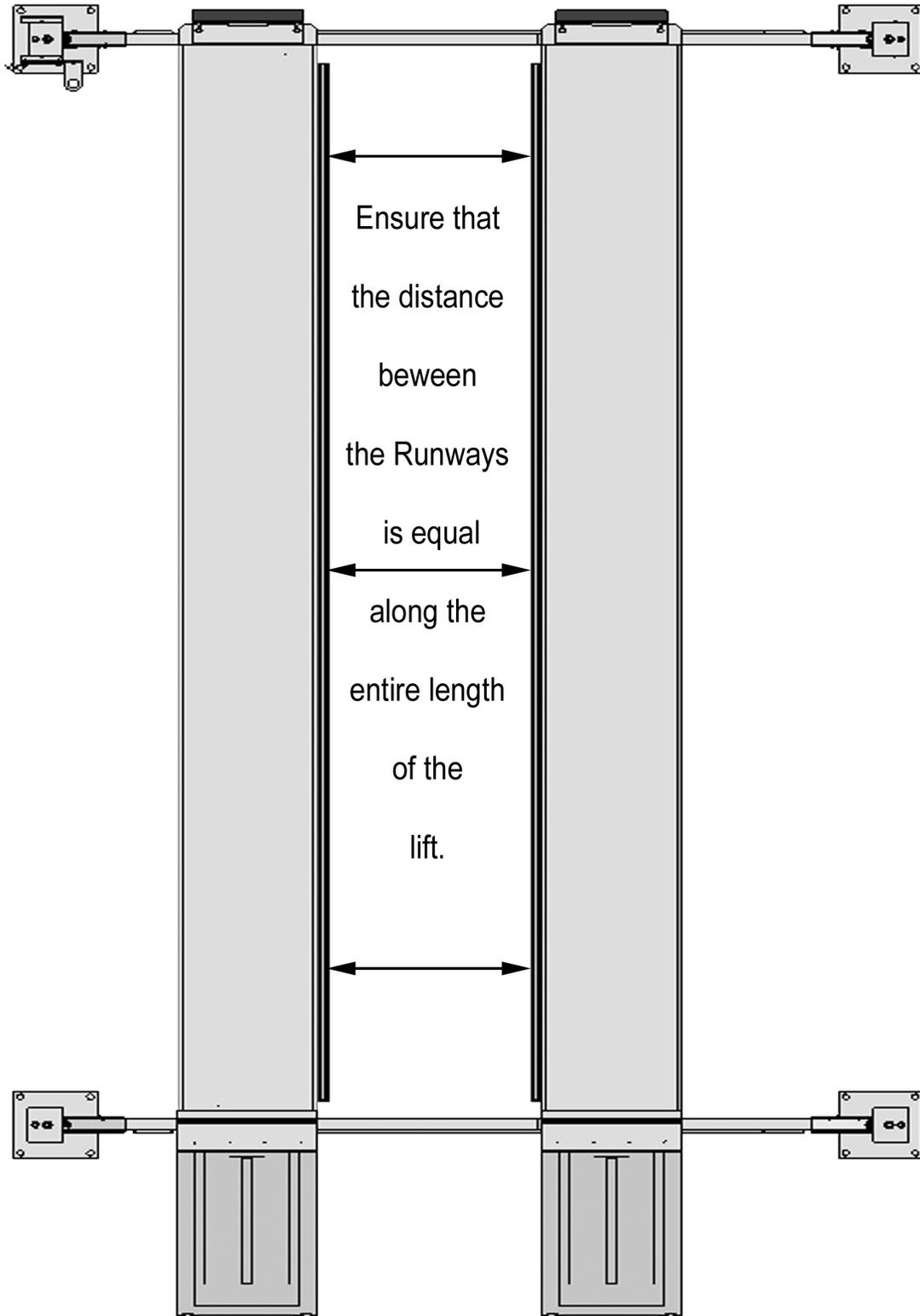
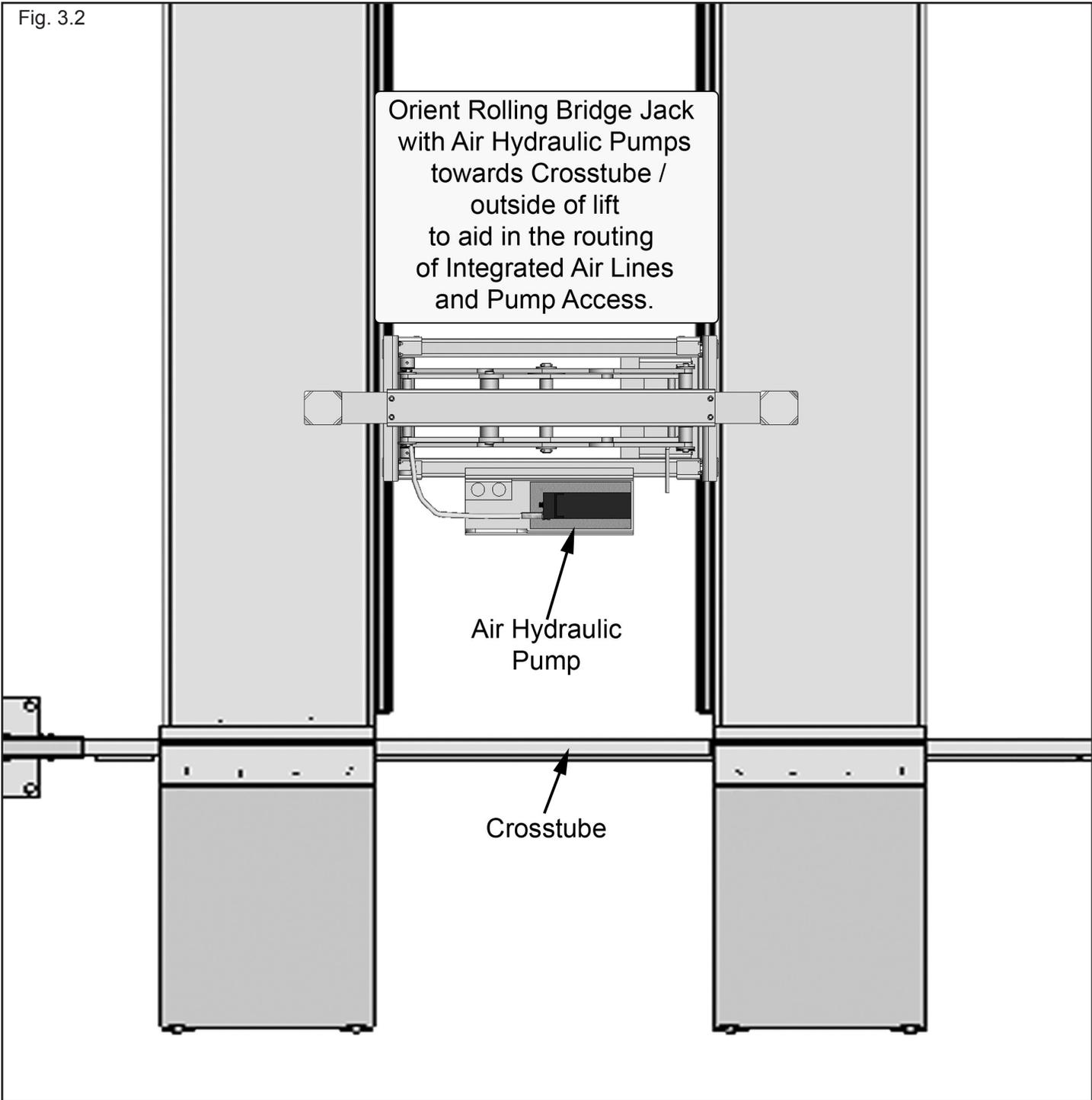


Fig. 3.2

Orient Rolling Bridge Jack
with Air Hydraulic Pumps
towards Crosstube /
outside of lift
to aid in the routing
of Integrated Air Lines
and Pump Access.

Air Hydraulic
Pump

Crosstube

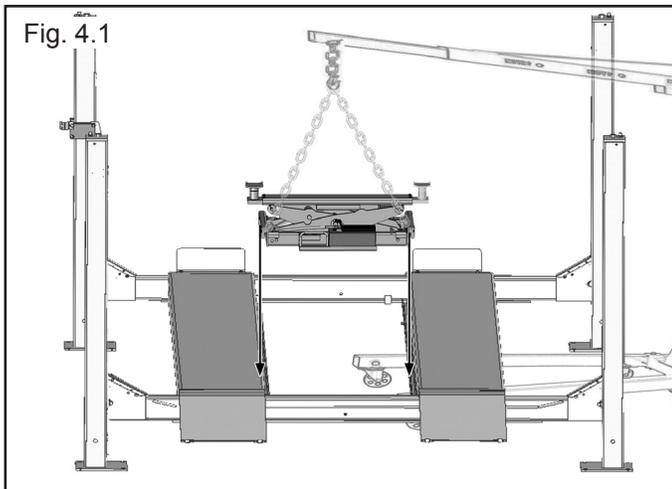


STEP 4
(Installing Jack on Rails)



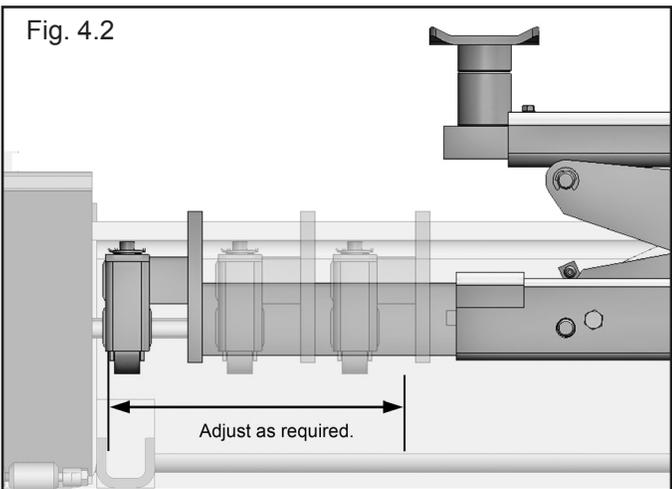
WARNING!
When removing or moving the Rolling Bridge Jack from shipping pallet pay close attention as the Jack may move and can cause injury. Prior to removing the strapping or bolts make sure the Jack is held securely by a fork lift or some other heavy lifting device.

1. Lower the Rolling Bridge Jack all the way down.
2. Using a shop crane, forklift or other lifting device raise the Rolling Bridge Jack and place it in between the Runways. (See Fig. 4.1)



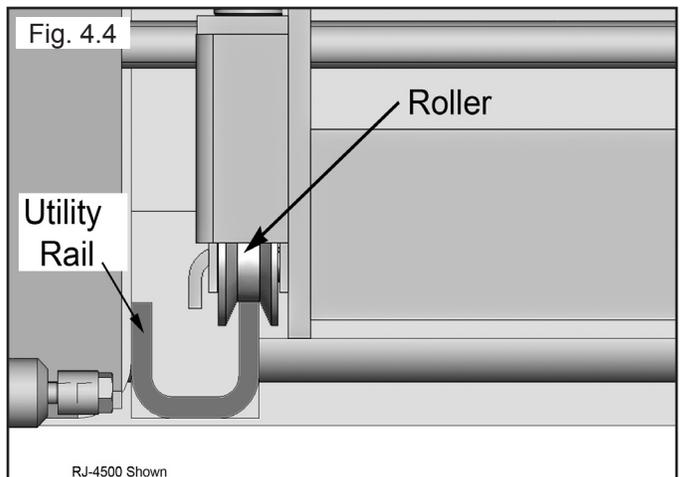
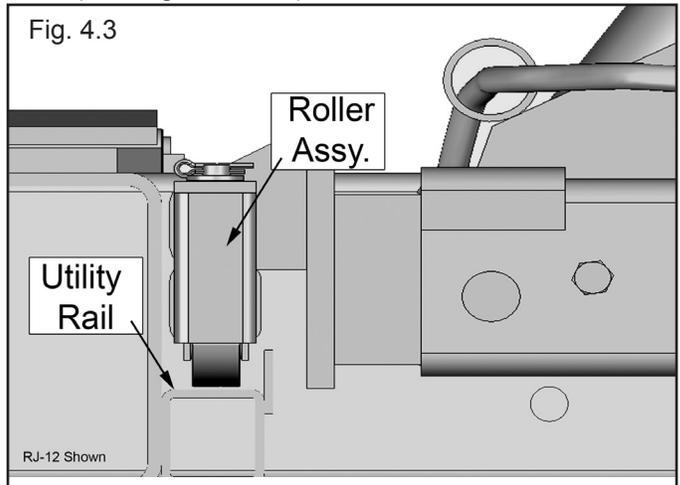
3. Lower the Rolling Bridge Jack to just above the Utility Rails on the inside of the Runways.
4. Adjust the Rolling Bridge Jack Ends to the correct width. (See Fig. 4.2)

NOTE: 18-25K models do not have adjustable arms.



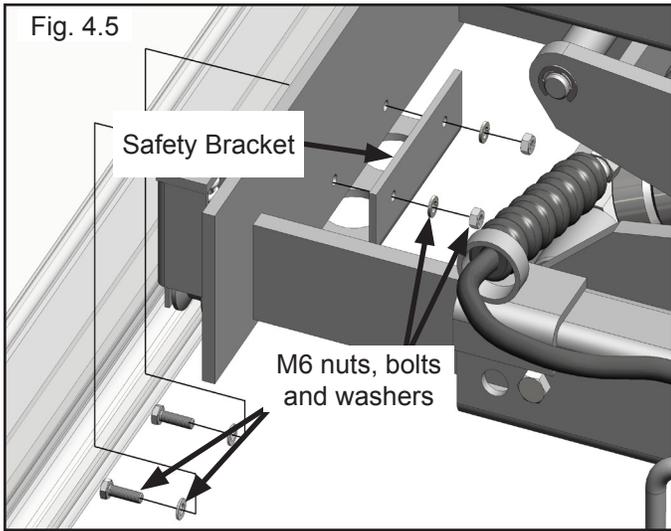
WARNING!
Read and understand all instructions before using this jack. Adjust rolling jack telescoping ends until rollers rest securely on runway tracks as shown. NEVER use rolling jack unless safety bracket is installed. REMAIN CLEAR of elevated rolling jack unless visual confirmation is made that jack rollers are secure on runway tracks. BE CAREFUL WHEN ADJUSTING ROLLING JACK OR LIFT RUNWAYS to prevent rolling jack from becoming separated from runway tracks. Failure to read, understand and follow these instructions may cause death or serious injury.

5. When the desired width is reached, lower the Rolling Bridge Jack into the Utility Rails. Double check that all 4 Rollers are seated properly in or on the Utility Rails. (See Fig. 4.3 & 4.4)



6. Ensure that the Utility Rail Channel is clean of debris, tools etc.
7. Locate the Safety Brackets. Install brackets on the Rolling Bridge Jack Ends using the provided M6 hardware. (See Fig 4.5)

NOTE: Only 4.5, 6K, & 7K models include Safety Brackets.



8. Repeat the process for the other Rolling Bridge Jack if installing in pairs.

9. Raise the lift up off the ground so that the Rolling Bridge Jack is off the ground and lower the lift onto the first safety stop if not already done in Step 3.



ENSURE THAT THE LIFT IS RESTING ON THE SAFETIES BEFORE PROCEEDING.

10. Check the clearance and movement of the Rolling Bridge Jack by sliding the Rolling Bridge Jack forward and rearward on the rails. Check that the Rollers are centered on the Rails at all points along the rail's length. Adjustment of the Rolling Bridge Jack Arms or the Runway width may be necessary to assure proper operation.

STEP 5

(Connecting Air Supply)



DANGER!

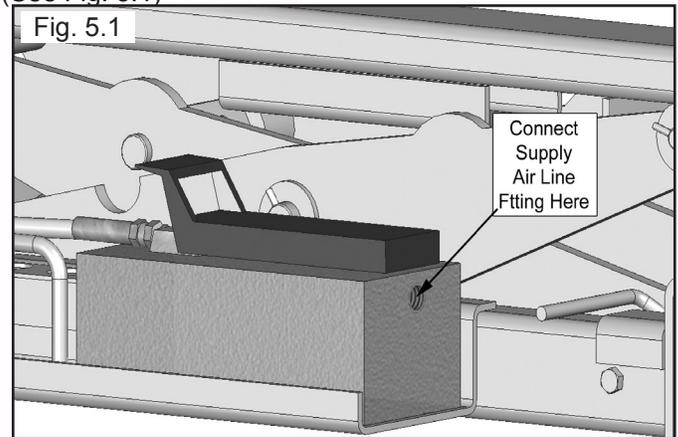
DISCONNECT AND / OR RELEASE THE PRESSURE FROM THE AIR SUPPLY SYSTEM / HOSES BEFORE PERFORMING ANY INSTALLATION OR MAINTENANCE OF THE AIR SUPPLY SYSTEM.

DANGER!

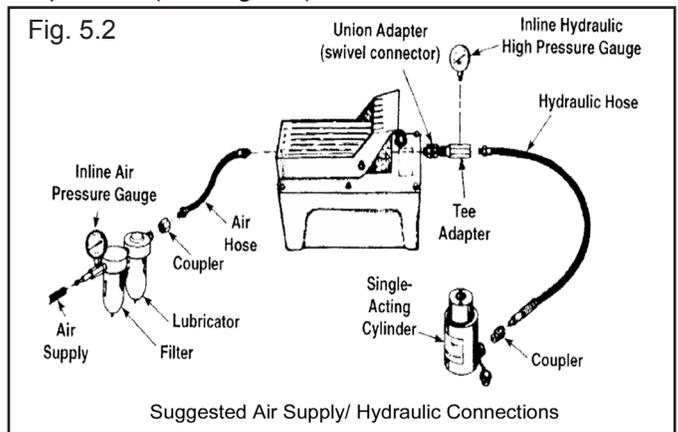
THE AIR SUPPLY SHOULD BE TO 20 CFM (.57 M³/MIN.) AND 100 PSI (7 BAR). AIR SUPPLY SHOULD BE REGULATED TO A MAXIMUM OF 125 PSI (8.6 BAR)

Refer to page 20 if installing with the Optional Rolling Bridge Jack Airline Kit.

1. Remove the thread protector from the air inlet of the Pump. Select and install the threaded fittings (not supplied) which are compatible with your air supply. The air supply should be 20 CFM (.57 M³/MIN) and 100 PSI (7 BAR) to obtain the rated hydraulic pressure. Air Supply should be regulated to a maximum of 125 PSI (8.6 BAR) (See Fig. 5.1)



2. An appropriate air line regulator, water separator and lubricator should be installed on the Air Supply line. The absence of these items will void the warranty on pneumatic components. (See Fig. 5.2)



STEP 6

(Start Up / Final Adjustments)



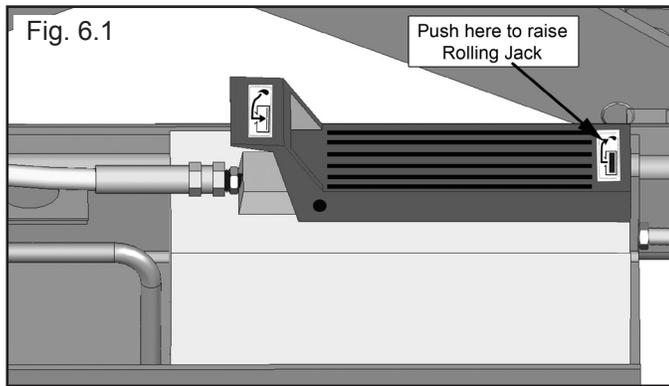
CAUTION!

DURING THE START-UP PROCEDURE, OBSERVE ALL OPERATING COMPONENTS AND CHECK FOR PROPER INSTALLATION AND ADJUSTMENT. DO NOT ATTEMPT TO RAISE VEHICLE UNTIL A THOROUGH OPERATIONAL CHECK HAS BEEN COMPLETED.

1. Make sure the Pump reservoir is full using 10-WT hydraulic oil. (See page 15 for fluid level/refilling instructions)

2. Raise the Jack **WITHOUT** a vehicle to check for proper operation of the Rolling Bridge Jack.

3. Depress the Pedal on the lifting end to raise the Jack through the full range of the Jack. (See Fig. 6.1)

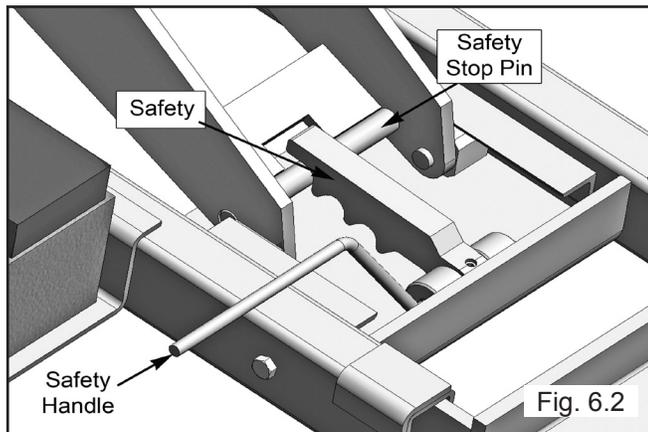


Under certain circumstances it may be necessary to prime the Air Hydraulic Pump Unit. Refer to the manual that came with the pump for these instructions.



DANGER!
VISUALLY CONFIRM THAT ALL PRIMARY SAFETY LOCKS ARE ENGAGED BEFORE ENTERING WORK AREA.
 Suspension components used on this Jack are intended to raise and lower the Jack only and are not meant to be load holding devices. Remain clear of elevated Jack unless visual confirmation is made that all primary Safety Locks are fully engaged and the lift is LOWERED onto the Safety Locks. Refer to installation /operation manual for proper Safety Lock procedures and /or further instruction.

4. Lower the Jack onto the nearest Safety Stop Pin. When the Jack is loaded with a vehicle make sure the Jack is resting on the Safety Stop Pin prior to performing any work on the vehicle. (See Fig. 6.2)

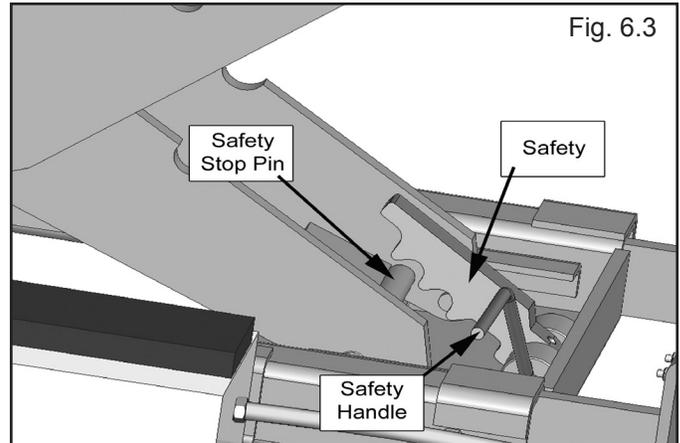


To lower the Rolling Bridge Jack:

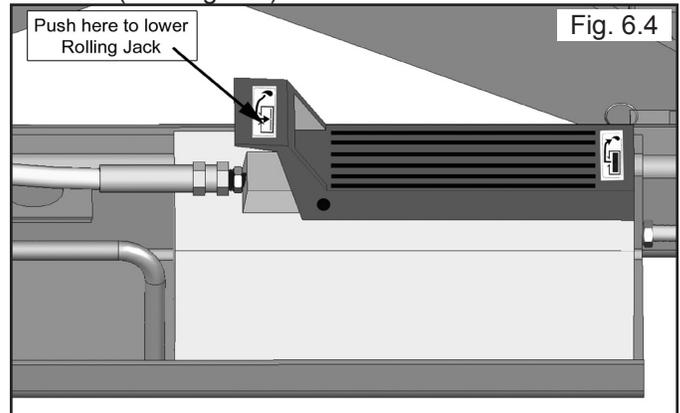
When lowering the Jack PAY CAREFUL ATTENTION that all personnel and objects are kept clear. ALWAYS keep a visual line of sight on the Jack AT ALL TIMES.

1. Raise the lift up so that the Safety is off the Safety Stop Pin.

2. Flip the Safety Handle up Off the Safety Stop Pin. (See Fig. 6.3)



3. Press the Pedal on the lowering end. Note: the Pedal can lock in the lowering position to facilitate lowering of the Jack. (See Fig. 6.4)



POST-INSTALLATION CHECK-OFF

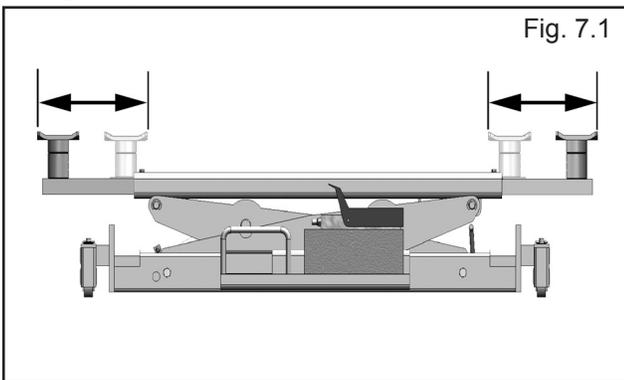
- ◆ Check For Hydraulic Leaks
- ◆ Check Fluid Level
- ◆ Lubrication of Critical Components
- ◆ Check For Overhead Obstructions
- ◆ Runways Level
- ◆ All Screws, Bolts, and Pins Secured
- ◆ Surrounding Area Clean
- ◆ Operation, Maintenance and Safety Manuals on Site
- ◆ Perform an Operational Test With a Typical Vehicle

STEP 7 (Operation)

1. Load the vehicle on the lift following the manufacturer's instructions.

To raise vehicle on Rolling Bridge Jack:

2. Position vehicle tires in the center of each runway.
3. Set parking brake or use wheel chock to hold vehicle in position.
4. Before raising vehicle, be sure all personnel are clear of the lift and surrounding area. Pay careful attention to overhead clearances. Determine the proper lift points on the vehicle by referring to the manufacturer's specification or an approved lifting guide.
5. Check and keep clean the Utility Rail channels clean of debris, tools, or other objects that may hinder the movement of the Rolling Jacks.
6. Adjust the Rolling Jack Arms so that the lift pads will make contact with the appropriate lifting points on the vehicle as specified by the manufacturer of the vehicle. (See Fig. 7.1)



7. Raise the Rolling Bridge Jack by pushing on the Raise end of the pedal of the Air Hydraulic Pump. Keep an eye on the jack as the lift pads make contact with the vehicle to ensure that proper contact is maintained as the weight of the vehicle is supported by the Jack.

8. Stop raising the jack just as the vehicle is raised off the lift runways. Confirm the vehicle is stable and properly seated before lifting the vehicle to the final desired height.

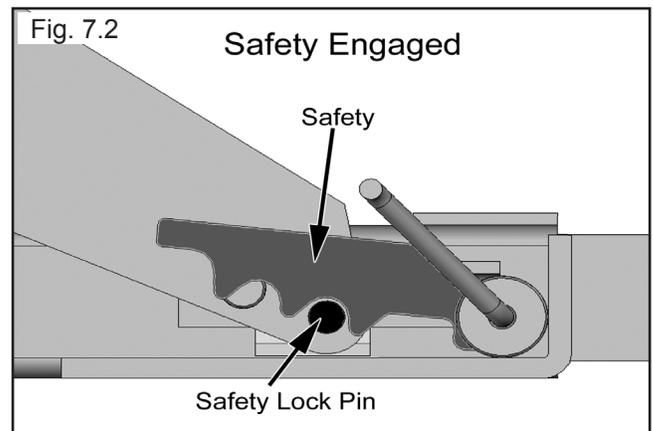


DANGER!

VISUALLY CONFIRM THAT ALL PRIMARY SAFETY LOCKS ARE ENGAGED BEFORE ENTERING WORK AREA.

Suspension components used on this Jack are intended to raise and lower Jack only and are not meant to be load holding devices. Remain clear of elevated Jack unless visual confirmation is made that all primary Safety Locks are fully engaged and the lift is LOWERED onto the Safety Locks, Refer to installation /operation manual for proper Safety Lock procedures and /or further instruction.

9. After vehicle is raised to the desired height, lower the jack onto the nearest safety lock. **ALWAYS ENSURE ALL SAFETY LOCKS ON LIFT AND JACKS ARE ENGAGED** before entering work area. (See Fig. 7.2)

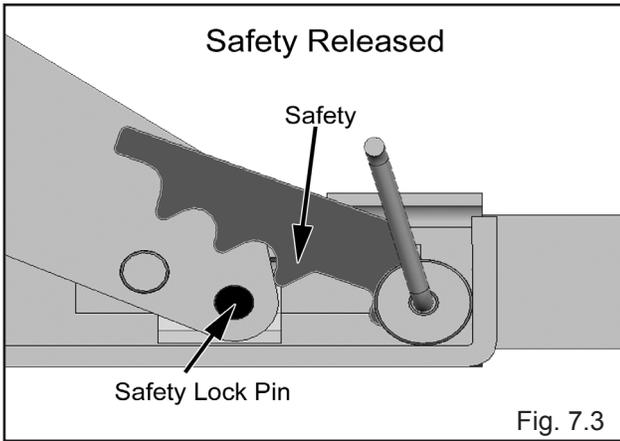


To lower vehicle on Rolling Bridge Jack:

1. Before lowering vehicle, be sure all personnel are clear of the lift and surrounding area. Pay careful attention to overhead clearances. Ensure all tools and equipment have been cleared from under the Jack.

2. Raise the Jack off of the Safety Locks by pressing the Raise end of the pedal of the Air Hydraulic Pump. Make sure you raise the Jack to allow adequate clearance for the Locks to clear.

3. Flip the Safety Handle up to raise the Safety off the Safety Lock Pin. (See Fig. 7.3)



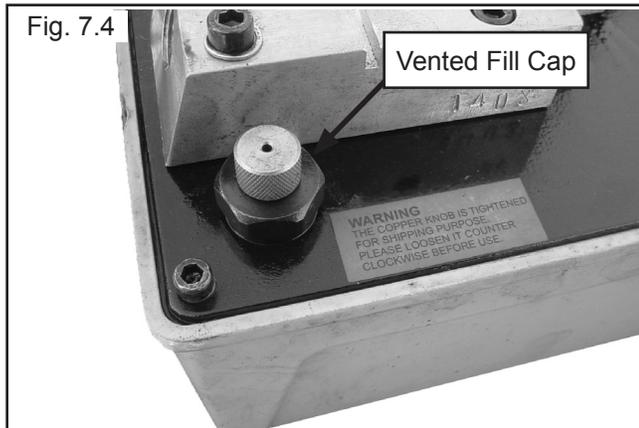
4. Push the Lowering side of the Pedal on the Air Hydraulic Pump until the lift has descended completely.



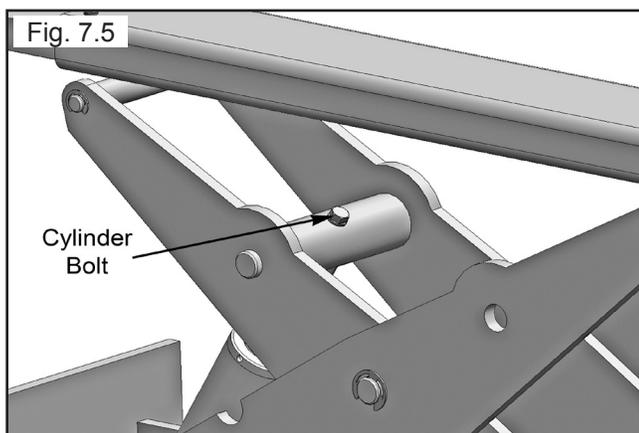
When lowering the lift **PAY CAREFUL ATTENTION** that all personnel and objects are kept clear. **ALWAYS** keep a visual line of site on the lift **AT ALL TIMES**.

WEEKLY MAINTENANCE

1. Check oil level in Pump and fill if necessary. To check oil level remove vented fill cap. Technician should visibly be able to see the oil level inside the hole. Insert a dip-stick or piece of plastic into the tank until it hits the bottom. Remove the stick and measure the amount. The oil level should be 3 3/8" to 3 1/2" inches deep.
(See Fig 7.4)

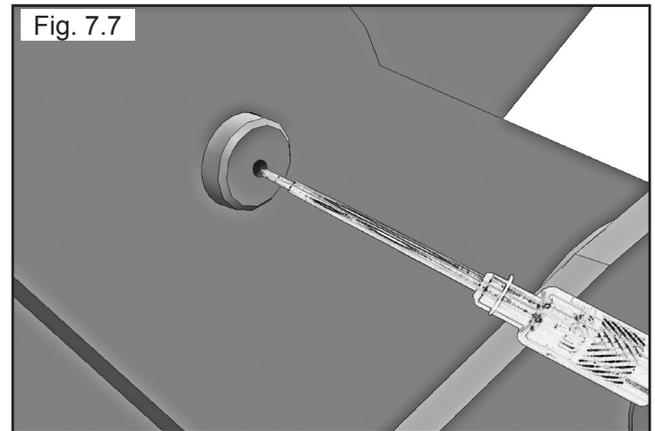
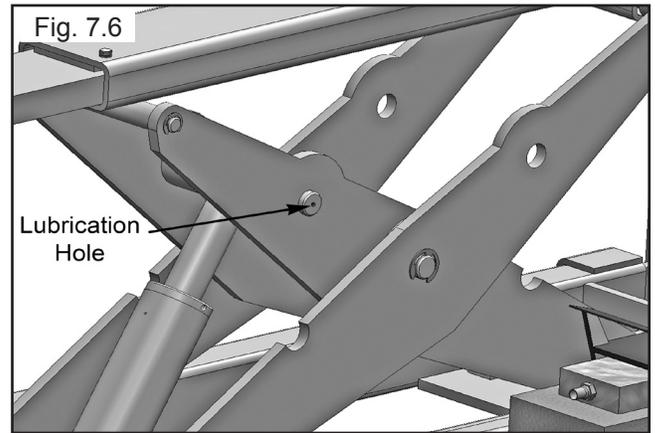


2. Lubricate all rollers with general purpose oil or WD-40.
3. Check all Hose connections, bolts and pins to ensure proper mounting.
4. Lubricate Safety lock pivot points with general purpose oil or WD-40.
5. Check and tighten Cylinder Bolt. (See Fig. 7.5)



MONTHLY MAINTENANCE

1. Lubricate the Cylinder Pin and Main Hinge Pin with all purpose grease using a needle point lube coupler.
(See Fig. 7.6 & 7.7)



2. Check Safety Locks to ensure they are in good operating condition.
 3. Make a visual inspection of **ALL MOVING PARTS** and check for excessive signs of wear.
 4. Replace **ALL FAULTY PARTS** before lift is put back into operation.
- ◆ **NEVER EXCEED THE RATED CAPACITY** of lift.



- ◆ **DO NOT USE LIFT** if any component is found to be defective or worn.
- ◆ **NEVER OPERATE LIFT** with any person or equipment below.
- ◆ **ALWAYS STAND CLEAR** of lift when lowering or raising.
- ◆ **ALWAYS INSURE SAFETY LOCKS ARE ENGAGED** before entering work area.
- ◆ **NEVER LEAVE LIFT IN ELEVATED CONDITION** unless all four safety locks are engaged.

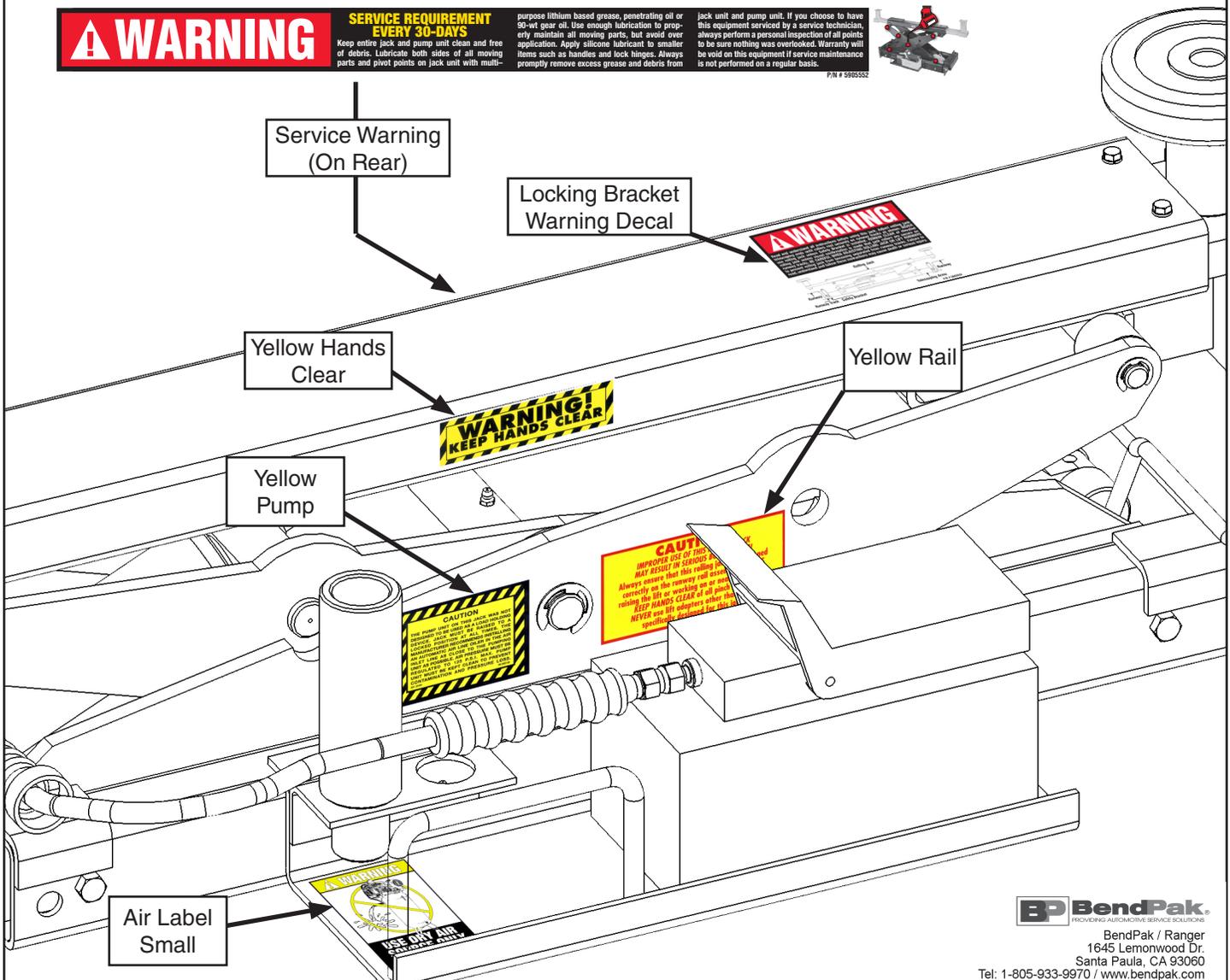
ROLLING BRIDGE JACK SAFETY LABEL PLACEMENT GUIDELINES

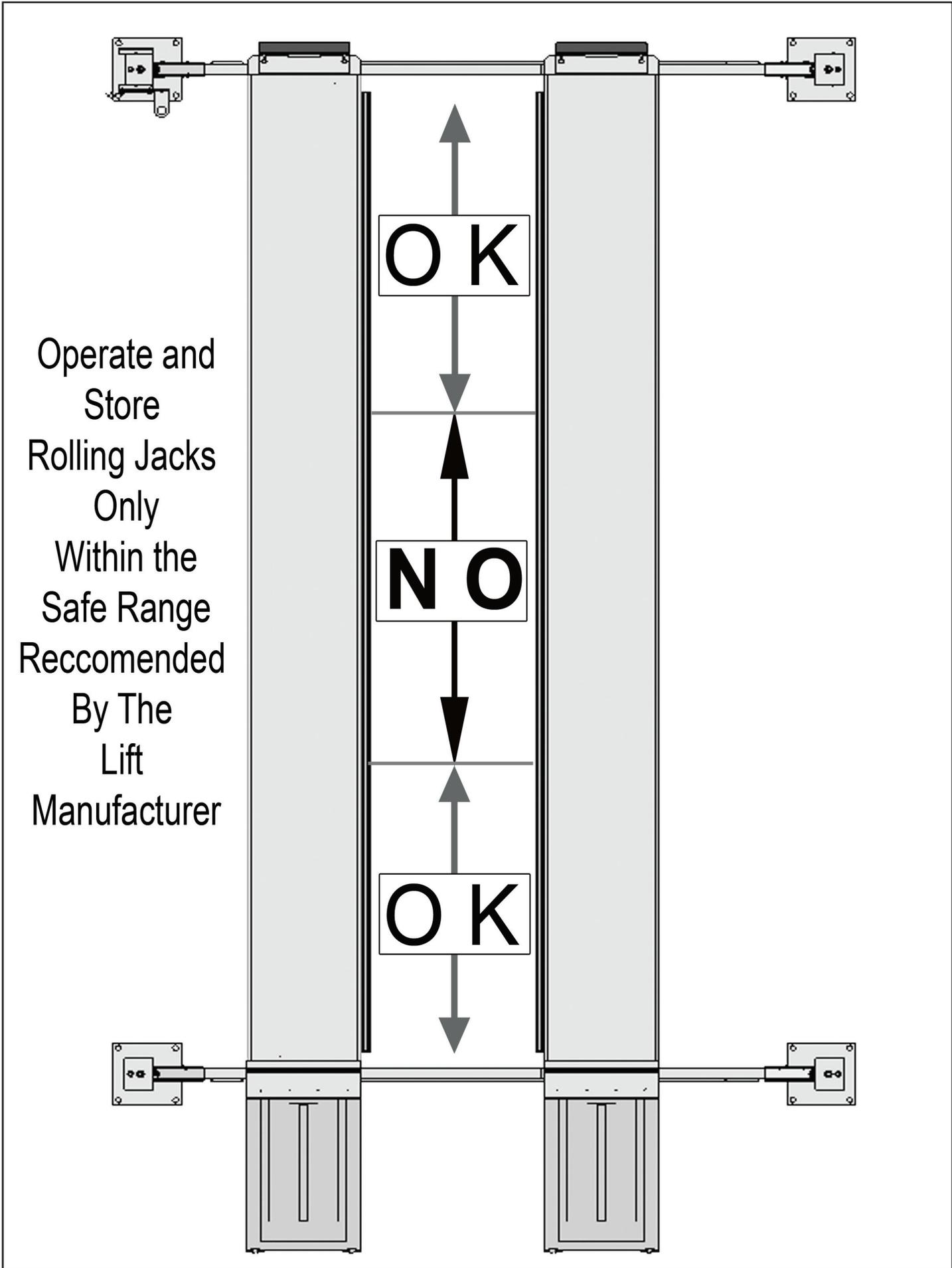


WARNING!

THESE SAFETY LABELS ARE PROVIDED FOR THIS PRODUCT FOR THE PROTECTION OF THE OPERATOR AND ANY PERSON(S) WORKING NEAR THE LIFT. THE SAFETY STICKERS MUST BE INSTALLED AS PER THE INSTRUCTIONS BELOW, PRIOR TO THE COMPLETION OF INSTALLATION. FAILURE TO PROPERLY INSTALL WARNING LABELS COULD FAIL TO WARN AND LEAD TO SERIOUS PERSONAL INJURY OR DEATH TO OPERATOR OR BYSTANDER OR DAMAGE TO PROPERTY. BE SURE EVERYONE WHO OPERATES THIS EQUIPMENT UNDERSTANDS ALL THE INFORMATION, CAUTION, WARNING, AND DANGER LABELS. KEEP ALL LABELS CLEAN SO THEY ARE LEGIBLE. THIS APPLIES TO ALL CAUTION, WARNING, AND DANGER LABELS. IT IS THE OWNER'S RESPONSIBILITY TO PROVIDE INFORMATION TO ALL OPERATORS FOR SAFE OPERATION OF THIS LIFT. REPLACE ANY DAMAGED OR WORN LABELS. ONCE ANY PART OF A LABEL BECOMES ILLEGIBLE, IT SHOULD BE REPLACED. THE PART NUMBERS FOR THE LABELS ARE LOCATED IN THE LOWER RIGHT CORNER OF THE LABEL. REPLACEMENT LABELS MAY BE ORDERED THROUGH YOUR DEALER OR THE ADDRESS BELOW. WHEN INSTALLING AND/OR REPLACING LABELS, BE SURE THE SURFACE IS CLEAN AND DRY, PEEL THE BACKING OFF THE LABEL, AND APPLY TO THE SURFACES AS SHOWN BELOW. BE SURE TO WIPE WITH A CLEAN CLOTH TO RUB OUT ALL AIR BUBBLES.

Note: RJ-7 shown





Safe Lift Operation

Automotive and truck lifts are critical to the operation and profitability of your business. The safe use of this and other lifts in your shop is critical in preventing employee injuries and damage to customer's vehicles. By operating lifts safely you can ensure that your shop is profitable, productive and safe.

Safe operation of automotive lifts requires that only trained employees should be allowed to use the lift.

TRAINING SHOULD INCLUDE, BUT NOT LIMITED TO:

- ◆ Proper positioning of the vehicle on the runway. (See manufacturers minimize wheel base loading requirements.)
- ◆ Use of the operating controls.
- ◆ Understanding the lift capacity.
- ◆ Proper use of jack stands or other load supporting devices.
- ◆ Proper use, understanding and visual identification of safety lock devices and their operation.
- ◆ Reviewing the safety rules.
- ◆ Proper housekeeping procedures (lift area should be free of grease, oil, tools, equipment, trash, and other debris).
- ◆ A daily inspection of the lift should be completed prior to its use. Safety devices, operating controls, lift arms and other critical parts should be inspected prior to using the lift.
- ◆ All maintenance and repairs of the lift should be completed by following the manufacturer's requirements. Lift repair parts should meet or exceed OEM specifications. Repairs should only be completed by a qualified lift technician.
- ◆ The vehicle manufacturer's recommendations should be used for spotting and lifting the vehicle.

LIFT OPERATION SAFETY

- ◆ It is important that you know the load limit. Be careful that you do not overload the lift . If you are unsure what the load limit is, check the data plate found on one of the lift columns or contact the manufacturer.
- ◆ The center of gravity should be followed closely to what the manufacturer recommends.
- ◆ Always make sure you have proper overhead clearance. Additionally, check that attachments, (vehicle signs, campers, antennas, etc.) are not in the way.
- ◆ Be sure that prior to the vehicle being raised, the doors, trunk, and hood are closed securely.
- ◆ Prior to being raised, make sure there is no one standing closer than six feet from the lift.
- ◆ After positioning the vehicle on the lift runways, set the emergency brake, make sure the ignition is off, the doors are closed, overhead obstructions are cleared, and the transmission is in neutral.
- ◆ Double check that the automatic chock devices are in position and then when the lift is raised, observe the chocks
- ◆ Put pads or adapters in the right position under the contact points that have been recommended.
- ◆ The lift should be raised just until the vehicle's wheels are about one foot off the ground. If contact with the vehicle is uneven or it appears that the vehicle is not sitting secure, carefully lower the lift and readjust.
- ◆ Always consider potential problems that might cause a vehicle to slip, i.e., heavy cargo, undercoating, etc.
- ◆ Pay attention when walking under a vehicle that is up on the hydraulic lift.



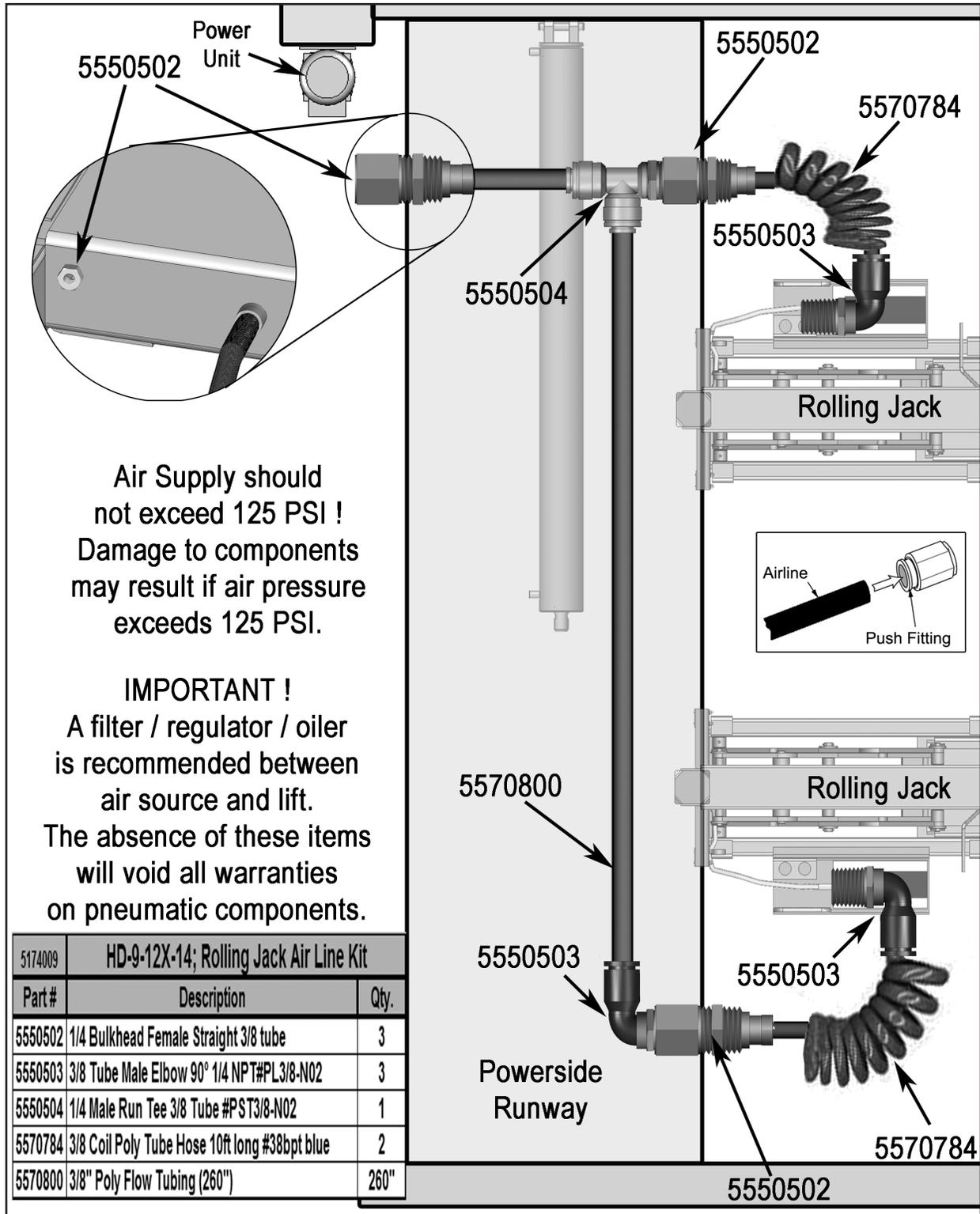
- ◆ **DO NOT** leave the controls while the lift is still in motion.
- ◆ **DO NOT** stand directly in front of the vehicle or in the bay when vehicle is being loaded or driven into position.
- ◆ **DO NOT** Go near vehicle or attempt to work on the vehicle when being raised or lowered.
- ◆ **REMAIN CLEAR** of lift when raising or lowering vehicle.
- ◆ **DO NOT** rock the vehicle while on the lift or remove any heavy component from vehicle that may cause excessive weight shift.
- ◆ **DO NOT** lower the vehicle until people, materials, and tools are clear.
- ◆ **ALWAYS ENSURE** that the safeties are engaged and lowered on to the safety ladders before any attempt is made to work on or near vehicle.
- ◆ Some vehicle maintenance and repair activities may cause the vehicle to shift. Follow the manufacturer's guidelines when performing these operations. The use of jack stands or alternate lift points may be required when completing some repairs.
- ◆ **READ AND UNDERSTAND** all safety warning procedures before operating lift.
- ◆ **KEEP HANDS AND FEET CLEAR.** Remove hands and feet from any moving parts. Keep feet clear of lift when lowering. Avoid pinch points.
- ◆ **ONLY TRAINED OPERATORS** should operate this lift. All non-trained personnel should be kept away from work area. Never let non-trained personnel come in contact with, or operate lift.
- ◆ **USE LIFT CORRECTLY.** Use lift in the proper manner. Never use lifting adapters other than what is approved by the manufacturer.
- ◆ **DO NOT** override self-closing lift controls.
- ◆ **CLEAR AREA** if vehicle is on danger of falling.
- ◆ **STAY ALERT.** Watch what you are doing. Use common sense. Be aware.
- ◆ **CHECK FOR DAMAGED PARTS.** Check for alignment of moving parts, breakage of parts or any condition that may affect its operation. Do not use lift if any component is broken or damaged.
- ◆ **NEVER** remove safety related components from the lift. Do not use lift if safety related components are damaged or missing.
- ◆ When the lift is being lowered, make sure everyone is standing at least six feet away.
- ◆ Be sure there are no jacks, tools, equipment, left under the lift before lowering.
- ◆ Always lower the vehicle down slowly and smoothly.

OPTIONAL INTEGRATED AIR LINE KIT FOR ROLLING BRIDGE JACKS

(HD-9-12X-14 Kit shown. Contact Your BendPak Dealer for kits for other lift models.)

HD-9-12X-14 Rolling Jack Air Line Kit Installation Part # 5174009

REV 01-06-09



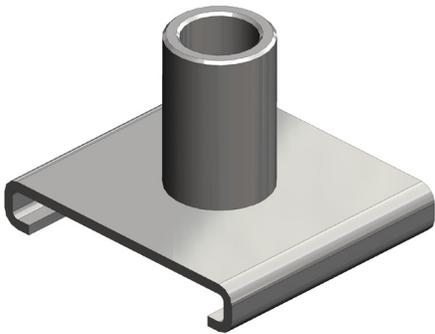
NOTE:

Holes in the runways for the integrated air line kit may have been an optional modification on some lift models. Contact BendPak technical support for assistance if adding Rolling Jacks /Air Line Kit after purchase.

**OPTIONAL SLIDE ON LIFT PAD ADAPTERS
FOR RJ-45 ONLY**

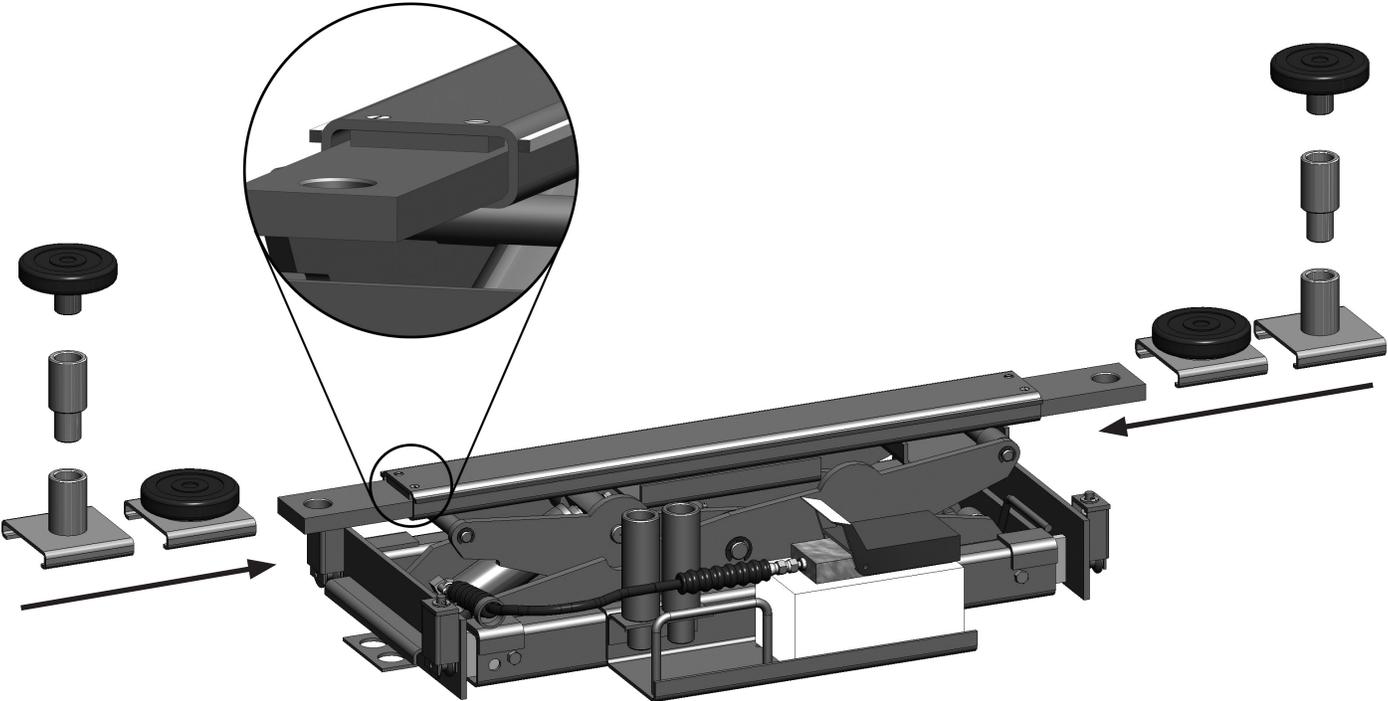


**SHORT ROUND LIFT
PAD ASSEMBLY**



LIFT PAD WELDMENT BASE

Slide the channels of the Slide on Lift Pad Adapters onto the rails located on the Top Arm Tube. Adjust the position of the Slide on Lift Pad Adapters so that the lift pads will make contact with the appropriate lifting points on the vehicle as specified by the manufacturer of the vehicle.



Optional Equipment available through your Authorized BendPak Dealer.

INSTALLATION FORM

Customer Name:		Date of Installation:
Company Name:		
Street Address:		
City:	State:	Zip:
Phone:	Fax:	

Pre-Install Agreement

I, (the undersigned) acting as the owner of the business listed above assume responsibility for any permits required, either state or county mandated, related to the installation and/or operation of this equipment. I assume responsibility for the concrete floor and condition thereof, now or later, where the above equipment model(s) are installed. I will assume all liability for losses, damages (including loss of use), expenses, demands, claims, and judgments in connection with or arising out of any personal injury or alleged damage to property, sustained or alleged to have been sustained in connection with, or to have arisen out of the condition and/or drilling of the concrete near or adjacent to the equipment model(s) listed above. If my employee(s) offer assistance of any kind during installation of the above equipment model(s) I hold the manufacturer and installation company harmless of all liability for losses, damages, expenses, claims, and judgments in connection with or arising out of any personal injury or alleged damage to property, sustained or alleged to have been sustained in connection with the installation of the above equipment model(s).

I understand that the lifts above are supplied with concrete fasteners meeting the criteria of the American National Standard "Automotive Lifts - Safety Requirements for Construction, Testing, and Validation" ANSI/ALI ALCTV-1998, and that I will be responsible for all charges related to any special regional structural and/or seismic anchoring requirements specified by any other agencies and/or codes such as the Uniform Building Code (UBC) and/or International Building Code (IBC).

Customer Signature: _____ Print Name: _____ Date: _____

Post-Installation Check-Off

- | | |
|---|---|
| <input type="checkbox"/> Base and Columns Properly Shimmed And Stable | <input type="checkbox"/> Lubrication of Critical Components |
| <input type="checkbox"/> Anchor Bolts Tightened | <input type="checkbox"/> Lift Adapters |
| <input type="checkbox"/> Runways Properly Attached and Secured | <input type="checkbox"/> Check For Overhead Obstructions |
| <input type="checkbox"/> Electric Power Supply Confirmed | <input type="checkbox"/> Runways Level |
| <input type="checkbox"/> Cables / Chains Adjusted Properly | <input type="checkbox"/> All Screws, Bolts, and Pins Secured |
| <input type="checkbox"/> Safety Locks Functioning Properly | <input type="checkbox"/> Surrounding Area and Lift Clean In Appearance |
| <input type="checkbox"/> Check For Hydraulic Leaks | <input type="checkbox"/> Proper Operation, Maintenance and Safety Explained |
| <input type="checkbox"/> Oil Level | <input type="checkbox"/> Operation and Safety Manual(s) Left at Site |

I, (the undersigned) confirm that the above installation procedure(s) were completed. I understand that I will be responsible for maintaining this equipment as outlined in the accompanied **Installation and Operation Manual** and **ANSI/ALI ALOIM Safety Requirements for Operation, Inspection and Maintenance**. I understand that personal injury and/or damage to property can occur if the above equipment model(s) are not maintained or used improperly and take full responsibility for training my employees on proper use and maintenance of this equipment. I hold the manufacturer and installation company harmless of all liability for losses, damages (including loss of use), expenses, demands, claims, and judgments in connection with or related to improper use, improper training, or lack of required maintenance. I understand that the warranty does not cover replacement of parts worn or damaged due to normal use or lack of required maintenance

Customer Signature: _____ Print Name: _____ Date: _____

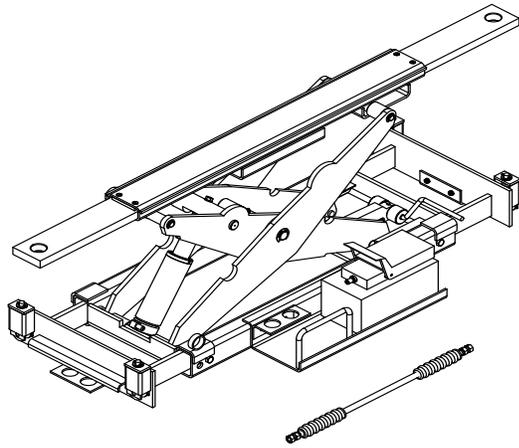
Installer Signature: _____ Print Name: _____ Date: _____

Installer Company Name: _____

Street Address: _____

City: _____ State: _____ Zip: _____

Phone: _____ Phone (Other): _____



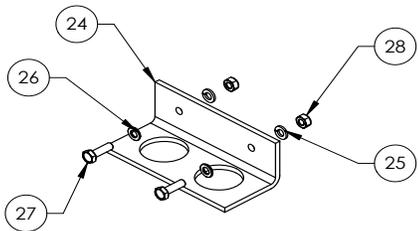
ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5600124	RJ-45/677 MAIN BODY BASE WELDMENT	1	D
2	5502200	CYLINDER ASSEMBLY Ø2.0 x 4.375	1	B
3	5212111	RJ-45 SCISSOR ASSEMBLY	1	B
4	5746031	RJ-45/677/9 CYLINDER HINGE ROD	1	B
5	5215112	RJ-45 EXTENSION ARM TUBE ASSEMBLY	1	D
6	5746036	RJ-45/677/9 SCISSOR PIN ROLLER TUBE	1	B
7	5746034	RJ-45/677/9 SCISSOR PIN	1	B
8	5746044	RJ-45 SCISSOR CHANNEL SPACER	2	B
9	5746033	RJ-45/677/9 SHORT SCISSOR PIN	1	B
10	5741122	RJ-45 SAFETY	1	B
11	5701072	RJ-45/677 SAFETY HANDLE	1	B
12	5215331	RJ-45/77 BASE EXTENSION ARM ASSEMBLY	2	B
13	5504006	RJ-SERIES HOSE ASSY 0.6 4mm x 600mm DS	1	B
14	5535120	AIR HYDRAULIC PUMP	1	-
15	5530132	HHB 378-16 x 2-1/4" GR8/CL 10.9	1	-
16	5541140	WASHER 3/8" S1	1	-
17	5530138	HHB M10 x 1.5 x 25	4	-
18	5530054	SSS M10x1.5x12	2	-
19	5530053	SSS M6x1x10	2	-
20	5530013	NUT M10 x 1.5 NL	4	-
21	5540109	F RING Ø16mm OD DIN 6799 0160	4	-
22	5550293	FTG RST-04 JIC x 0.6 NPT x 0.62 ID	1	-
23	5530086	FTG HLB-04 NPT x 0.4 JIC	1	-
24	5701314	RJ-45/677/9 HEIGHT ADAPTER BRACKET	2	B
25	5545026	WASHER M6 x Ø12 S1	4	-
26	5545003	M6 FLAT WASHER	4	-
27	5530093	HHB M6 x 1 x 20	4	-
28	5535357	NUT M6 x 1.0 NL	4	-

NOTE: UNLESS OTHERWISE SPECIFIED.

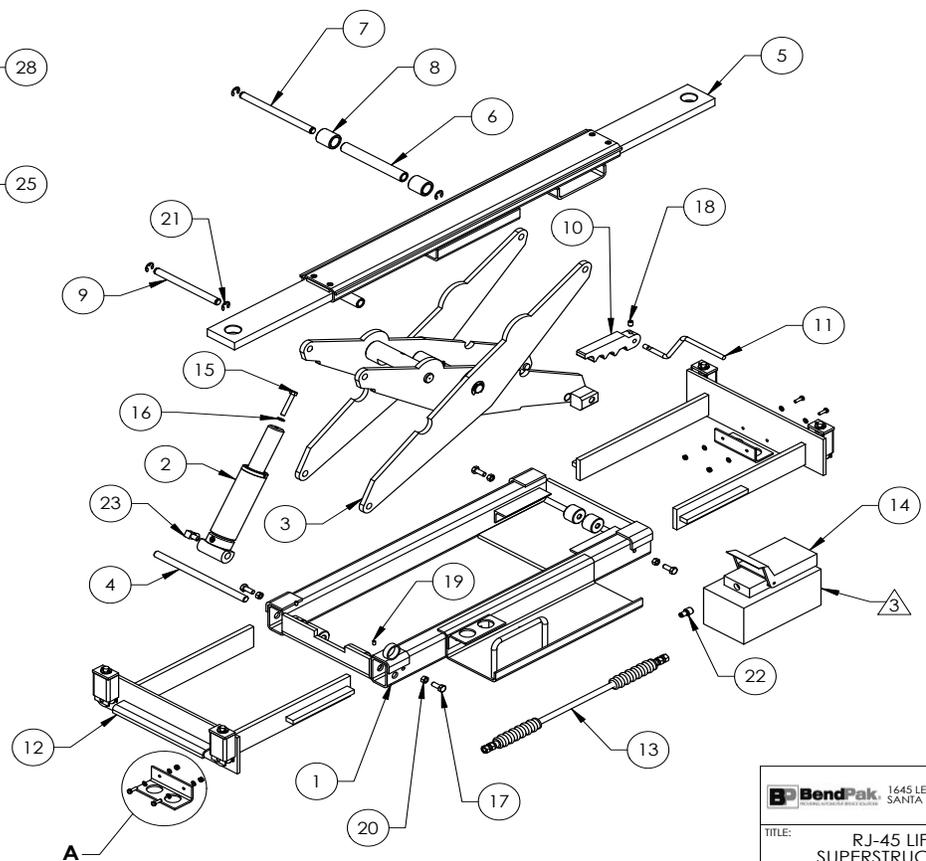
1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ASSEMBLE ITEMS AS SHOWN
3. AIR HYDRAULIC PUMP MUST BE INSTALLED USING THE INCLUDED BOLTS.
4. SHIP 5701314, 5545026, 5545005, 5530093, 5535357 IN PARTS BOX

NEXT ASSEMBLY
5220056

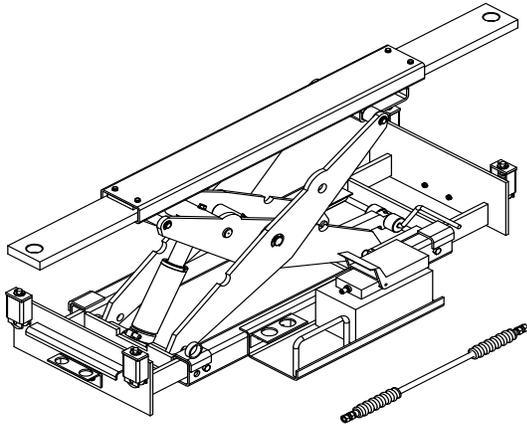
DO NOT SCALE DRAWING	NAME	DATE	1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DIMENSIONS ARE IN MM	DRAWN	AC 12/09/2009	
	CHECKED		TITLE: RJ-45 LIFT SUPERSTRUCTURE
	THIRD ANGLE PROJECTION		SIZE: DWG. NO. 5205286 REV M
MATERIAL: ---	<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.</small>		SCALE: 1:12 SHEET 1 OF 2



DETAIL A
SCALE 1 : 4



1645 LEMONWOOD DR. SANTA PAULA, CA 93060
TITLE: RJ-45 LIFT SUPERSTRUCTURE
SIZE: DWG. NO. 5205286 REV M
SCALE: 1:12 SHEET 2 OF 2



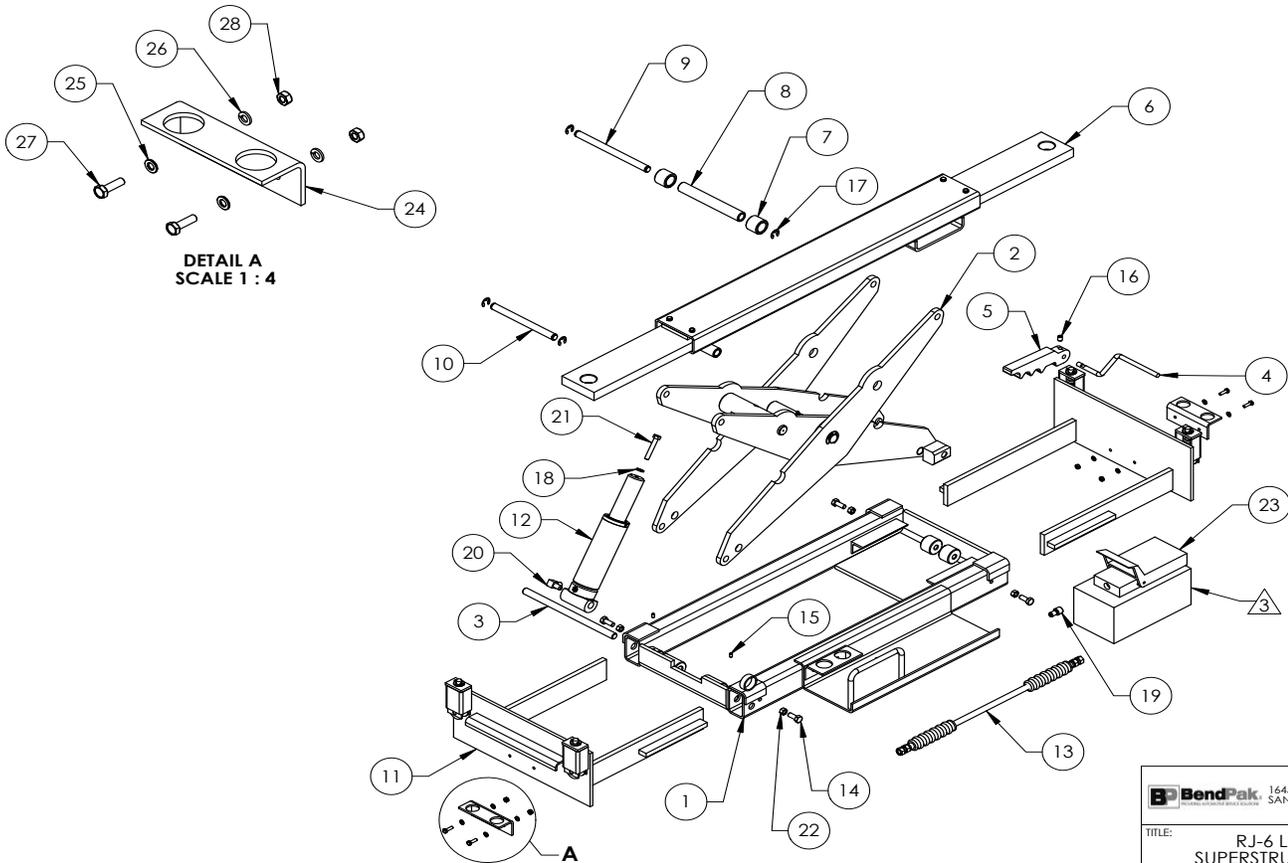
ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600124	RJ-45/617 MAIN BODY BASE WELDMENT	1	D
2	5215110	RJ-6/7/9 SCISSOR ASSEMBLY	1	B
3	5746031	RJ-45/617/9 CYLINDER HINGE ROD	1	B
4	5701072	RJ-45/617 SAFETY HANDLE	1	B
5	5731616	RJ-6/7/9 SAFETY	1	B
6	5215057	RJ-6/7 EXTENSION ARM TUBE ASSEMBLY	1	B
7	5742036	RJ-6/7/9 SCISSOR CHANNEL SPACER	2	B
8	5746035	RJ-45/617/9 SCISSOR PIN ROLLER TUBE	1	B
9	5746034	RJ-45/617/9 SCISSOR PIN	1	B
10	5746033	RJ-45/617/9 SHORT SCISSOR PIN	1	B
11	5215354	RJ-6 BASE EXTENSION ARM ASSEMBLY	2	D
12	5092000	CYLINDER ASSEMBLY 2.0 x 4.375	1	B
13	5570804	RJ-SERIES HOSE ASSY 26.4mm x 600mm DS	1	B
14	5530738	HHB M10 x 1.5 x 25	4	-
15	5530055	SSS M6x1x10	2	-
16	5530054	SSS M10x1x2	2	-
17	5540109	E RING 16mm OD DIN 6799 0160	4	-
18	5545130	WASHER 3/8" S	1	-
19	5530423	FIG RST -04 JIC x 06 NPT x 062 ID	1	-
20	5550086	FIG ELB-04 NPT x 04 JIC	1	-
21	5530132	HHB 3/8"-16 x 2-1/4 GR8/CL 10.9	4	-
22	5545024	NUT M10 x 1.5 NL	4	-
23	5585120	AIR HYDRAULIC PUMP	1	-
24	5701410	RJ-6 ROLLER RAIL LOCKING BRACKET	2	A
25	5545005	M6 FLAT WASHER	4	-
26	5530052	WASHER M6 x 012 SL	4	-
27	5530093	HHB M6 x 1 x 20	4	-
28	5535357	NUT M6 x 1.0 NL	4	-

NOTE: UNLESS OTHERWISE SPECIFIED.

- SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- ASSEMBLE ITEMS AS SHOWN
- AIR HYDRAULIC PUMP MUST BE INSTALLED USING THE INCLUDED BOLTS
- SHIP 5701410, 5545026, 5545005, 5530093, 5535357 IN PARTS BOX

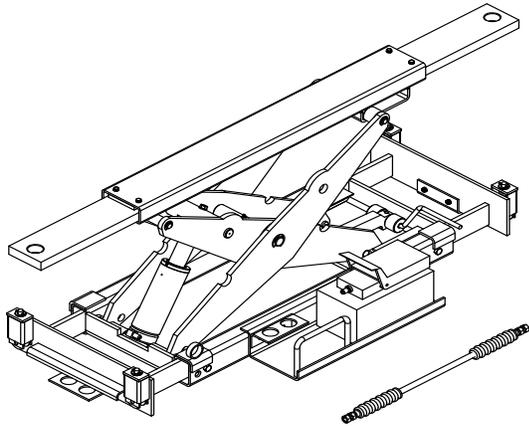
NEXT ASSEMBLY
5260057

DO NOT SCALE DRAWING	NAME	DATE	1445 LEMONWOOD DR. SANTA PAULA, CA 93060
DIMENSIONS ARE IN MM	AC	02/17/2010	
	CHECKED	TITLE: RJ-6 LIFT SUPERSTRUCTURE	
	THIRD ANGLE PROJECTION		SIZE DWG. NO. REV A 5205287 L
MATERIAL: ---	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.		
SCALE: 1:12	SHEET 1 OF 2		



DETAIL A
SCALE 1:4

1445 LEMONWOOD DR. SANTA PAULA, CA 93060			
TITLE: RJ-6 LIFT SUPERSTRUCTURE			
SIZE	DWG. NO.	REV	
A	5205287	L	
SCALE: 1:12		SHEET 2 OF 2	

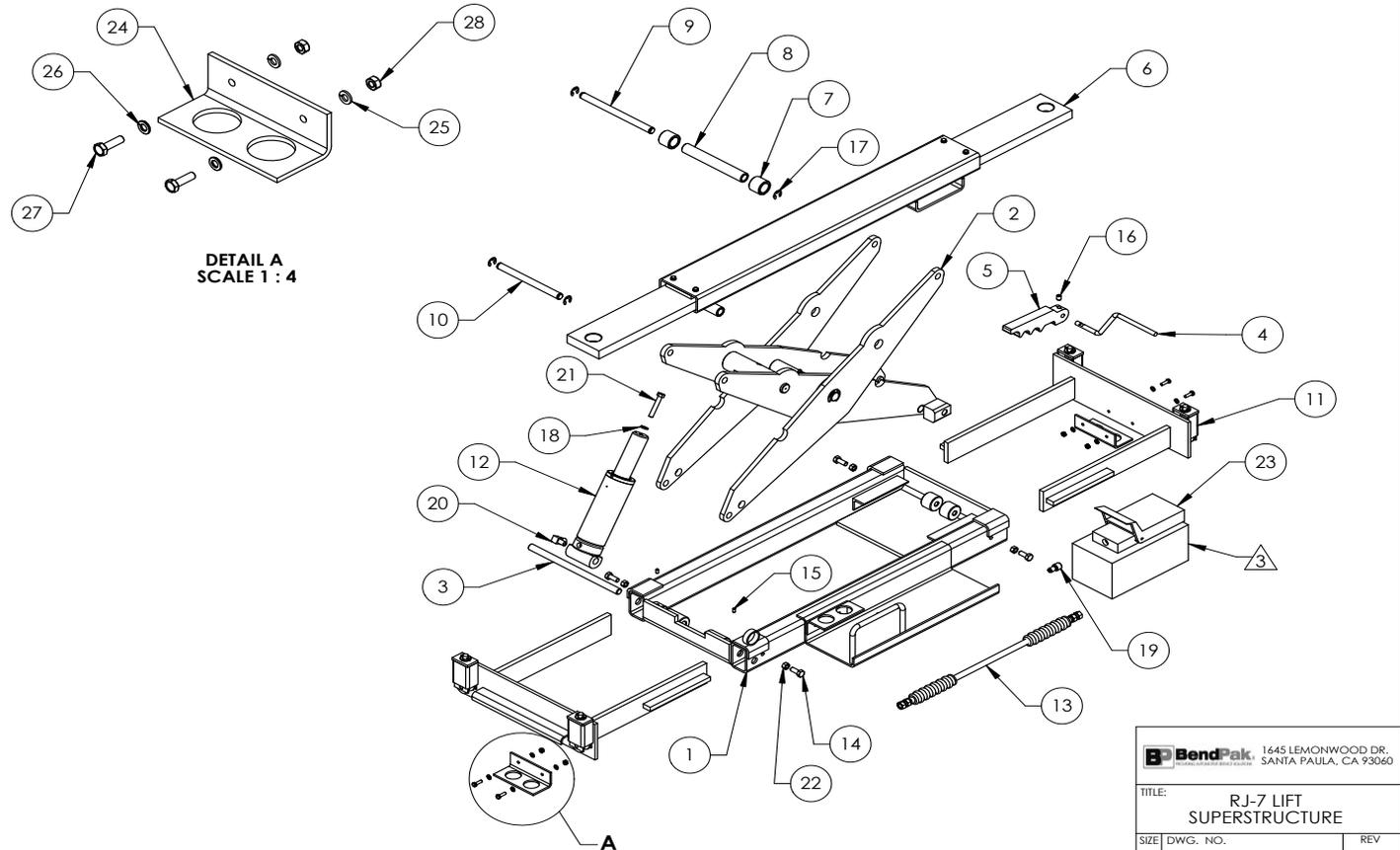


ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5500174	RJ-45/6/7 MAIN BODY BASE WELDMENT	1	D
2	52151101	RJ-6/7/9 SCISSOR ASSEMBLY	1	F
3	5746031	RJ-45/6/7/9 CYLINDER HINGE ROD	1	F
4	5701072	RJ-45/6/7 SAFETY HANDLE	1	B
5	5731216	RJ-6/7/9 SAFETY	1	B
6	5215057	RJ-6/7 EXTENSION ARM TUBE ASSEMBLY	1	B
7	5746036	RJ-6/7/9 SCISSOR CHANNEL SPACER	2	B
8	5746035	RJ-45/6/7/9 SCISSOR PIN ROLLER TUBE	1	B
9	5746034	RJ-45/6/7/9 SCISSOR PIN	1	B
10	5746034	RJ-45/6/7/9 SHORT SCISSOR PIN	1	B
11	5215331	RJ-45/7 BASE EXTENSION ARM ASSEMBLY	2	F
12	5502205	CYLINDER ASSEMBLY 22.25 x 4.375	1	B
13	5507806	RJ-SERIES HOSE ASSY 22.4mm x 600mm DS	1	B
14	5530738	HHB M10 x 1.5 x 25	4	-
15	5530055	SSS M6 x 1.0	2	-
16	5530054	SSS M10 x 1.5 x 12	1	-
17	5540109	E RING Ø16mm OD DIN 6799 0160	4	-
18	5545130	WASHER 3/8" SL	1	-
19	5550493	FTG EST-04 JIC x .06 NPT x .062 ID	1	-
20	5550684	FTG FLE-04 NPT x .04 JIC	1	-
21	5530132	HHB 3/8" -16 x 2-1/4" CR8/CL 10.9	1	-
22	5535013	NUT M10 x 1.5 NI	4	-
23	5535120	AIR HYDRAULIC PUMP	1	-
24	5701314	RJ-45/6/7/9 HEIGHT ADAPTER BRACKET	2	-
25	5545026	WASHER M6 x Ø1.2 SL	4	-
26	5545005	M6 FLAT WASHER	4	-
27	5530093	HHB M6 x 1 x 20	4	-
28	5535357	NUT M6 x 1.0 NI	4	-

NOTE: UNLESS OTHERWISE SPECIFIED.

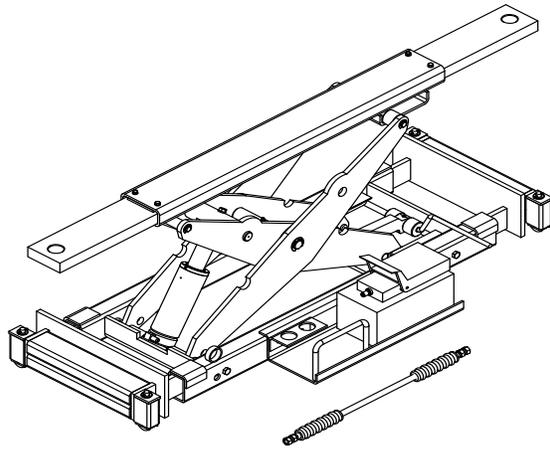
- SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
- ASSEMBLE ITEMS AS SHOWN
- AIR HYDRAULIC PUMP MUST BE INSTALLED USING THE INCLUDED BOLTS
- SHIP 5701314, 5545026, 5545005, 5530093, 5535357 IN PARTS BOX

DO NOT SCALE DRAWING	NAME	DATE	1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DIMENSIONS ARE IN MM	DRAWN	AC	
	CHECKED		TITLE: RJ-7 LIFT SUPERSTRUCTURE
	THIRD ANGLE PROJECTION		SIZE DWG. NO. 5205285
MATERIAL: ---			REV L
SIZE: ---	<small> PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED HEREIN IS THE PROPERTY OF BENDPAK INC. NO REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED. </small>		SCALE: 1:12
NEXT ASSEMBLY: 5240055			SHEET 1 OF 2



DETAIL A
SCALE 1 : 4

1645 LEMONWOOD DR. SANTA PAULA, CA 93060		
TITLE: RJ-7 LIFT SUPERSTRUCTURE		
SIZE DWG. NO. A 5205285	REV L	
SCALE: 1:12		SHEET 2 OF 2



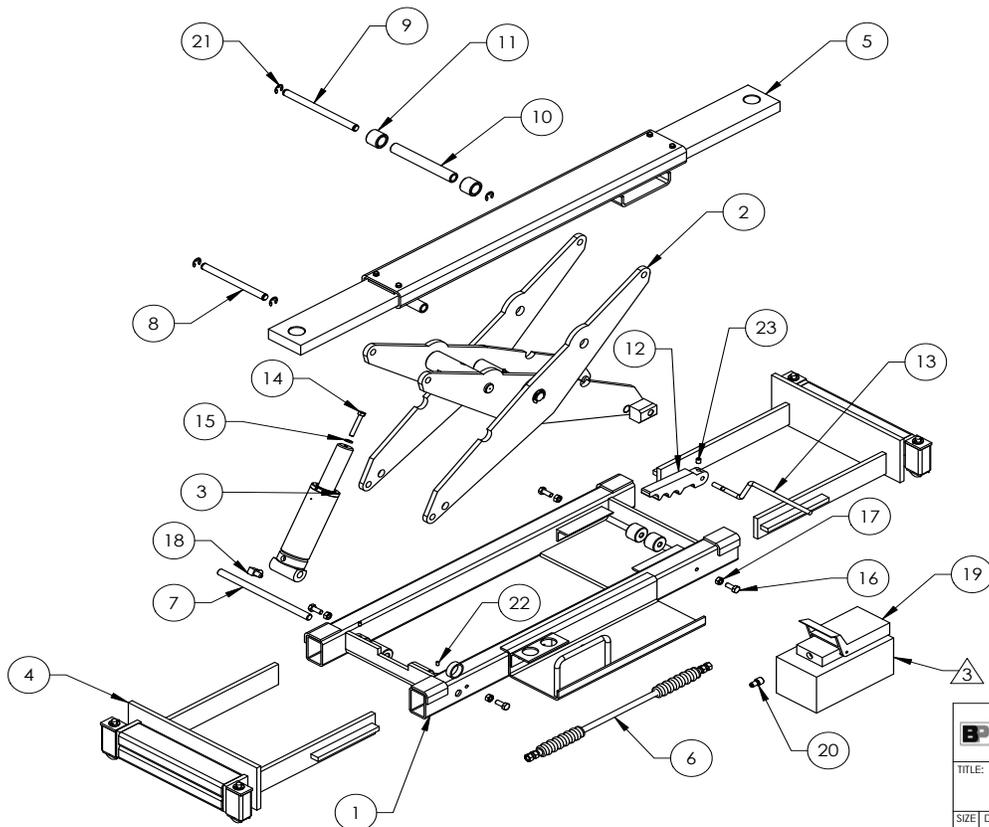
ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600360	RJ-9 BASE WELDMENT	1	C
2	5215110	RJ-6779 SCISSOR ASSEMBLY	1	F
3	5502205	CYLINDER ASSEMBLY Ø2.25 x 4.375	1	B
4	5210942	RJ-9000 ARM EXTENSION ASSEMBLY	2	A
5	5210151	RJ-9000 EXTENSION ARM TUBE ASSEMBLY	1	A
6	5708067	RJ-SERIES HOSE ASSY Ø8.4mm x 600mm DS	1	B
7	5746031	RJ-45/6779 CYLINDER HINGE ROD	1	B
8	5746033	RJ-45/6779 SHORT SCISSOR PIN	1	B
9	5746034	RJ-45/6779 SCISSOR PIN	1	B
10	5746032	RJ-45/6779 SCISSOR PIN ROLLER TUBE	1	B
11	5746036	RJ-6779 SCISSOR CHANNEL SPACER	2	B
12	5731612	RJ-6779 SAFETY	1	B
13	5701209	RJ-9000 SAFETY HANDLE	1	A
14	5530182	HHB 3/8" - 16 x 2 1/4" G88/CL 10.9	1	-
15	5545130	WASHER 3/8" SL	1	-
16	5530738	HHB M10 x 1.5 x 25	4	-
17	5535928	NUT M10 x 1.5	4	-
18	5530082	FIG ELB-04 NPT x -04 JIC	4	-
19	5585120	AIR HYDRAULIC PUMP	1	-
20	5550493	FIG RST-04 JIC x -06 NPT x 062 ID	1	-
21	5540109	F RING Ø1.6mm OD DIN 6799 0140	4	-
22	5530055	SSS M6x1x10	2	-
23	5530054	SSS M10x1.5x12	1	-

NOTE: UNLESS OTHERWISE SPECIFIED.

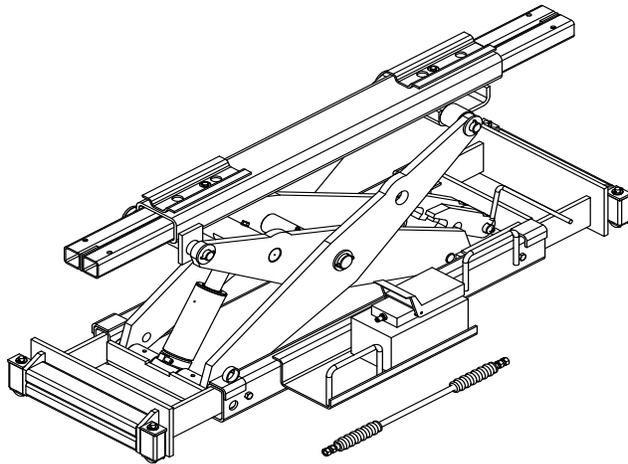
1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
2. ASSEMBLE ITEMS AS SHOWN
3. AIR HYDRAULIC PUMP MUST BE INSTALLED USING THE INCLUDED BOLTS

NEXT ASSEMBLY
5260037

DO NOT SCALE DRAWING	NAME	DATE	1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DIMENSIONS ARE IN MM	DRAWN AC	12/02/2009	
	CHECKED		TITLE: RJ-9 LIFT SUPERSTRUCTURE
	THIRD ANGLE PROJECTION		SIZE DWG. NO. REV
MATERIAL: ---			A 5205194 J
SIZE: ---	<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.</small>		SCALE: 1:12 SHEET 1 OF 2



1645 LEMONWOOD DR. SANTA PAULA, CA 93060			
TITLE: RJ-9 LIFT SUPERSTRUCTURE			
SIZE	DWG. NO.	REV	
A	5205194	J	
SCALE: 1:12			SHEET 2 OF 2

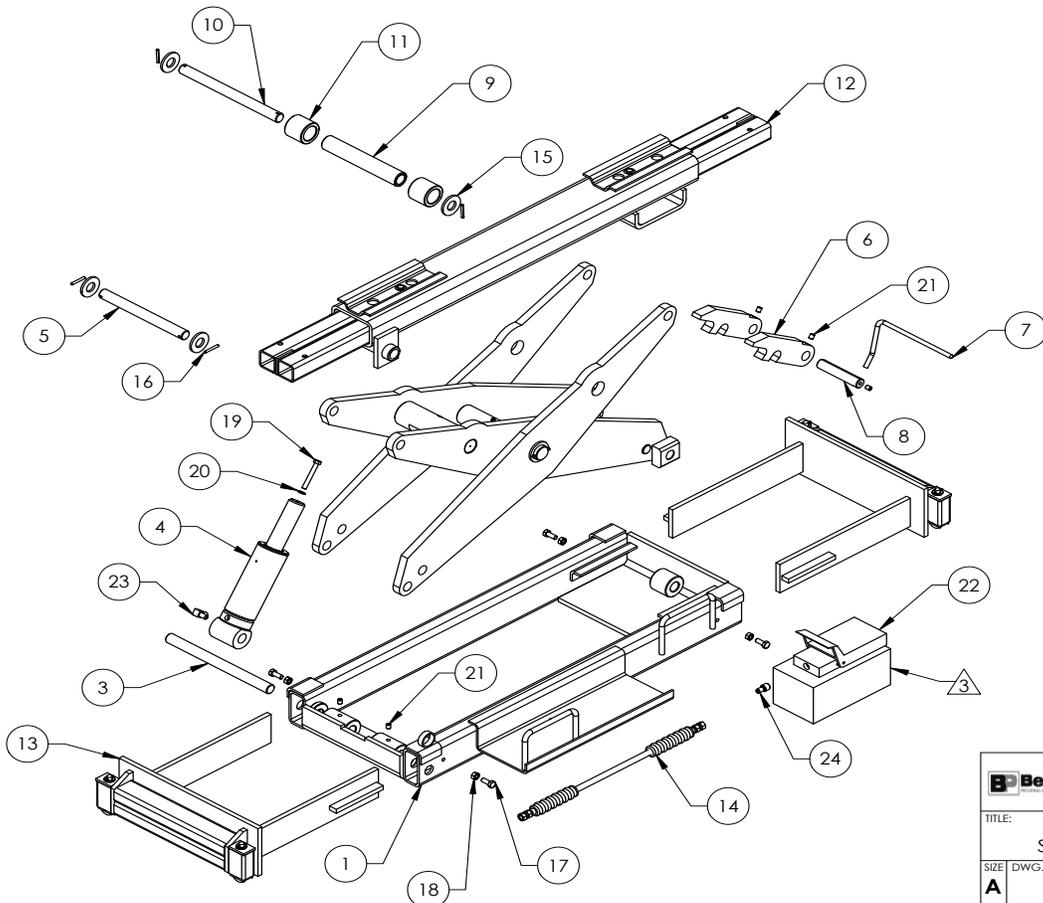


ITEM NO	PART NUMBER	DESCRIPTION	QTY	REV
1	5600363	RJ-12000/15000 BASE WELDMENT	1	B
2	5215181	RJ-12000/15000 SCISSOR ASSEMBLY	1	F
3	5210409	RJ-12000/15000 CYLINDER PIVOT PIN	1	A
4	5202210	CYLINDER ASSEMBLY 62.5 x 4.375	1	A
5	5742105	RJ-12000/15000 UPPER ROLLER SHAFT	1	A
6	5300913	RJ-12000/15000 SAFETY	2	A
7	5300871	RJ-12000/15000/18000/25000 SAFETY HANDLE	1	B
8	5742155	RJ-12000/15000/18000/25000 SAFETY PIN	1	A
9	5716102	RJ-12000/15000 LONG UPPER TUBE SPACER	1	A
10	5505107	RJ-12000/15000 UPPER ARM PIVOT PIN	2	A
11	5716101	RJ-12000/15000 SPACER	2	A
12	5210294	RJ-12000/15000 TOP EXTENSION ASSEMBLY	1	C
13	5210241	RJ-12000/15000 ARM EXTENSION ASSEMBLY	2	A
14	5570806	RJ-SERIES HOSE ASSY 26.4mm x 600mm DS	1	B
15	5742154	RJ-12000/15000 BEARING WASHER	4	A
16	5505134	SPRING PIN M5 x 40	4	-
17	5530738	HHB M10 x 1.5 x 25	4	-
18	5535228	RUI M10 x 1.5	4	-
19	5530121	HHB 3/8" - 16 x 2-3/4" GR8/CL 10.9	1	-
20	5545130	WASHER 3/8" SL	1	-
21	5530054	SSS M10x1.5x12	5	A
22	5585120	AIR HYDRAULIC PUMP	1	-
23	5550082	FIG ELB-04 NPT x -04 JIC	1	-
24	5550493	FIG RST-04 JIC x -06 NPT x .062 ID	1	-

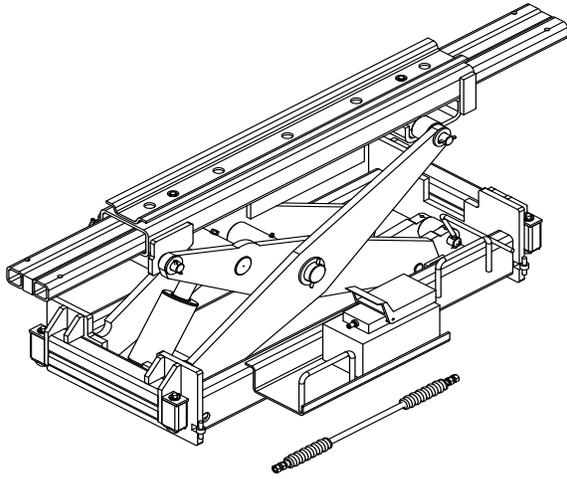
NOTE: UNLESS OTHERWISE SPECIFIED.
 1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
 2. ASSEMBLE ITEMS AS SHOWN
 AIR HYDRAULIC PUMP MUST BE INSTALLED USING THE INCLUDED BOLTS

DO NOT SCALE DRAWING	NAME	DATE	1445 LEMONWOOD DR. SANTA PAULA, CA 93060
DIMENSIONS ARE IN MM	DRAWN	AC 12/09/2009	
	CHECKED		TITLE: RJ-12/15 LIFT SUPERSTRUCTURE
	THIRD ANGLE PROJECTION		SIZE DWG. NO. REV
MATERIAL: ---			A 5205195 K
SIZE: ---	<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.</small>		SCALE: 1:12 SHEET 1 OF 2

NEXT ASSEMBLY
5260033



1445 LEMONWOOD DR. SANTA PAULA, CA 93060
TITLE: RJ-12/15 LIFT SUPERSTRUCTURE
SIZE DWG. NO. REV
A 5205195 K
SCALE: 1:12 SHEET 2 OF 2

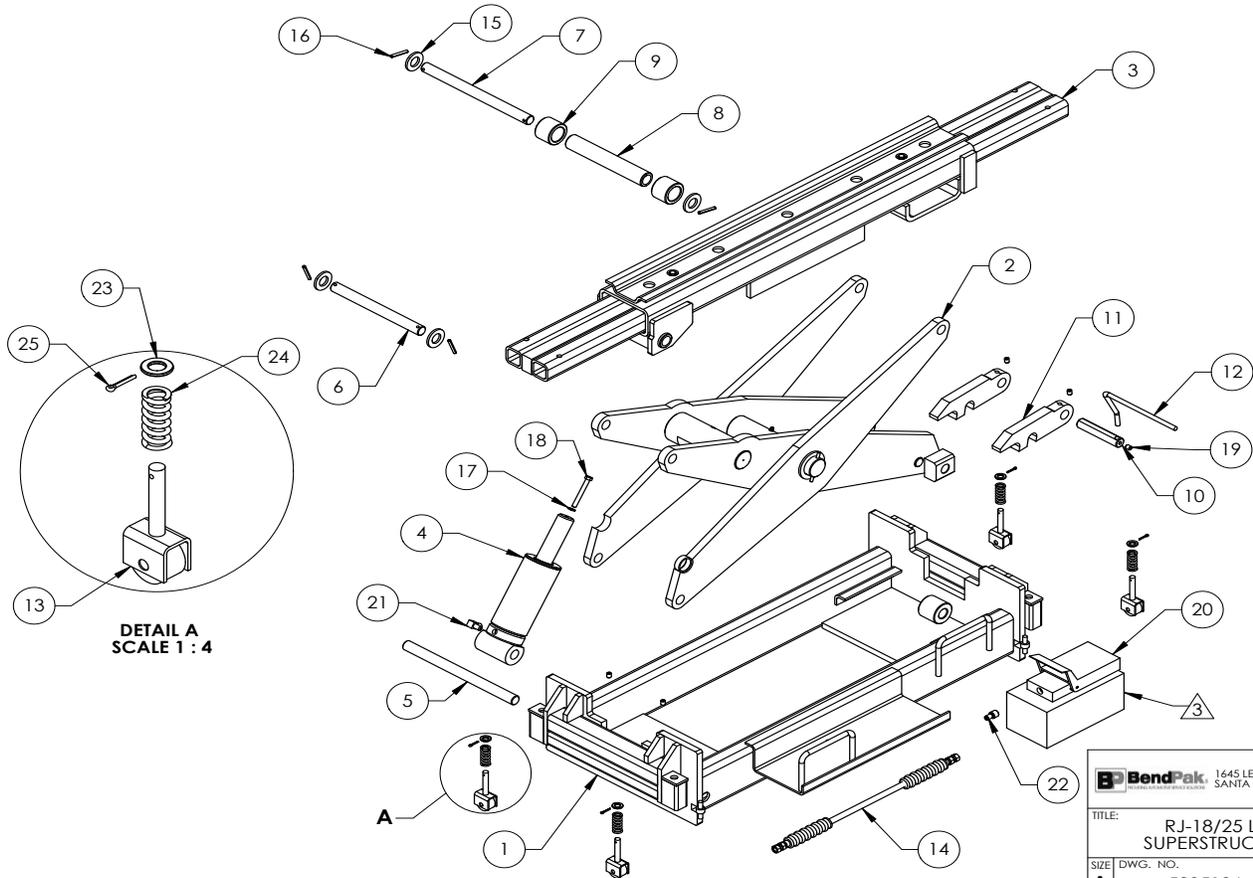


ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5400355	RJ-18000/25000 BASE WELDMENT	1	C
2	5215180	RJ-18000/25000 SCISSOR ASSEMBLY	1	B
3	5215334	RJ-18000/25000 UPPER EXTENSION ARM ASSEMBLY	1	B
4	5502167	CYLINDER ASSEMBLY Ø3.0 x 4.5	1	B
5	5745057	RJ-18000/25000 CYLINDER PIVOT PIN	1	A
6	5746628	RJ-18000/25000 SMALL UPPER PIVOT SHAFT	1	A
7	5746094	RJ-18000/25000 LONG UPPER PIVOT SHAFT	1	A
8	5755118	RJ-18000/25000 LONG UPPER TUBE SPACER	1	B
9	5746629	RJ-18000/25000 SPACER	2	A
10	5746155	RJ-12000/15000/18000/25000 SAFETY PIN	1	A
11	5300813	RJ-12000/15000 SAFETY	2	A
12	5300871	RJ-12000/15000/18000/25000 SAFETY HANDLE	1	B
13	5210150	RJ-9000/12000/15000/18000/25000 RAIL ROLLER ASSEMBLY	4	A
14	5570806	RJ-SERIES HOSE ASSY Ø6.4mm x 600mm DS	1	B
15	5736508	RJ-18000/25000 RETAINING WASHER	4	A
16	5505106	SPRING PIN M6 x 50	4	-
17	5545130	WASHER 3/8" SL	1	-
18	5530133	HHB 3/8" - 16 x 3" GR8/CL 10.9	1	-
19	5530054	SSS M10x1.5x1.2	5	A
20	558120	AIR HYDRAULIC PUMP	1	-
21	5550086	FTG ELB-04 NPT x .04 JIC	1	-
22	5550493	FTG RST-04 JIC x .04 NPT x .062 ID	1	-
23	5545347	WASHER M12 FLAT WASHER	4	-
24	5540125	SPRING 22 x 50mm	4	-
25	5550006	COTTER PIN Ø3.2 x 20mm	4	-

NOTE: UNLESS OTHERWISE SPECIFIED.
 1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING
 2. ASSEMBLE ITEMS AS SHOWN
 AIR HYDRAULIC PUMP MUST BE INSTALLED USING THE INCLUDED BOLTS

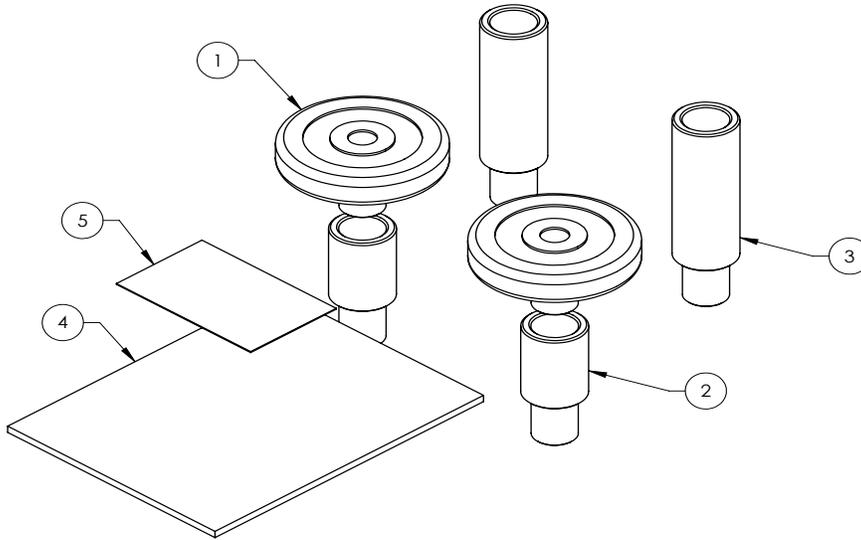
NEXT ASSEMBLY
5220034

DO NOT SCALE DRAWING	NAME	DATE	1645 LEMONWOOD DR. SANTA PAULA, CA 93060
DIMENSIONS ARE IN MM	AC	12/07/2009	
	CHECKED		TITLE: RJ-18/25 LIFT SUPERSTRUCTURE
	THIRD ANGLE PROJECTION		SIZE DWG. NO. REV
MATERIAL: ---			A 5205196 L
SIZE: ---	<small>PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED ON THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.</small>		SCALE: 1:12 SHEET 1 OF 2



DETAIL A
SCALE 1 : 4

1645 LEMONWOOD DR. SANTA PAULA, CA 93060		
TITLE: RJ-18/25 LIFT SUPERSTRUCTURE		
SIZE DWG. NO.	REV	
A 5205196	L	
SCALE: 1:12		SHEET 2 OF 2



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5215507	ROUND LIFT PAD ADAPTER ASSEMBLY	2	D
2	5746390	GP/XPR/RJ/MD-6XP SHORT LIFT PAD EXTENSION (113mm LG.)	2	B
3	5746395	GP/XPR/RJ LONG LIFT PAD EXTENSION (182mm LG.)	2	B
4	5900034	RJ SERIES INSTALLATION MANUAL	1	-
5	5900151	BENDPAK #90 WARRANTY CARD	1	-

DO NOT SCALE DRAWING
 DIMENSIONS ARE IN MM
 DRAWN AC 01/05/2010
 CHECKED MT 03/08/2012
 BENDPAK 1645 LEMONWOOD DR. SANTA PAULA, CA 93060



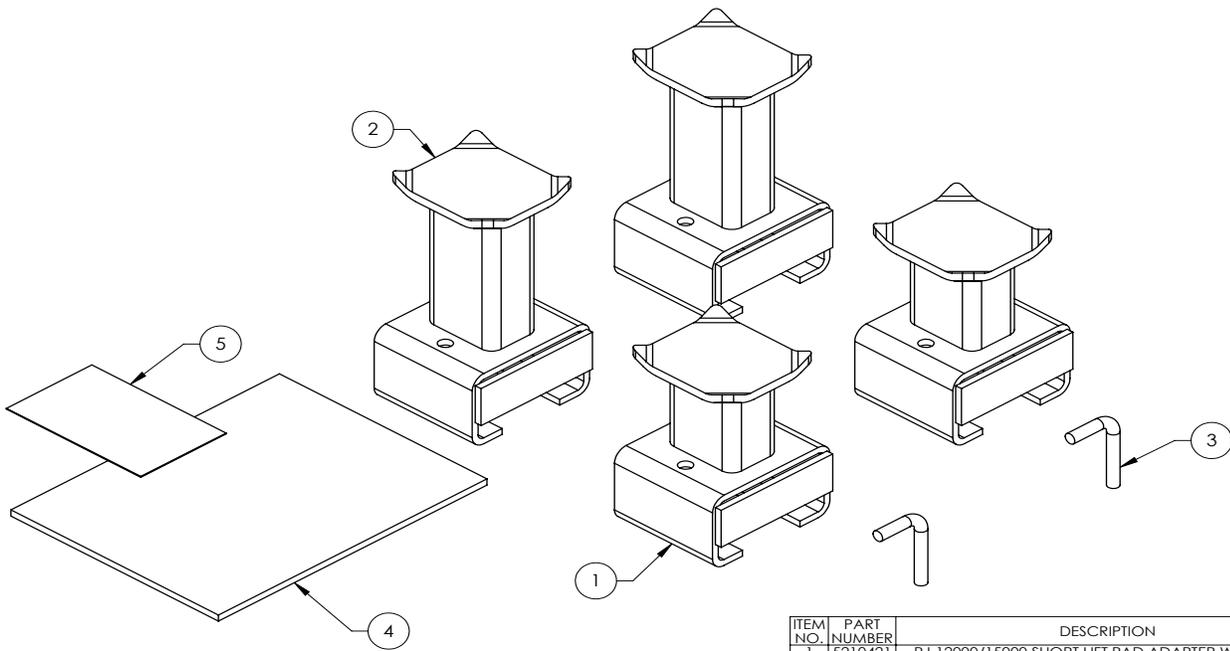
TITLE: RJ-45/6/7/9 PARTS BOX

NEXT ASSEMBLY	MATERIAL:
5220037	---
5220055	---
5220056	---
5220057	---

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.

SIZE DWG. NO. REV
 A 5250115 E
 SCALE: 1:4 SHEET 1 OF 1

NOTE: UNLESS OTHERWISE SPECIFIED.
 1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING



ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5210421	RJ-12000/15000 SHORT LIFT PAD ADAPTER WELDMENT	2	A
2	5210422	RJ-12000/15000 LONG LIFT PAD ADAPTER WELDMENT	2	A
3	5745054	RJ-12000/15000/18000/25000 HEIGHT ADAPTER RETAINER PIN	2	A
4	5900034	RJ SERIES INSTALLATION MANUAL	1	A
5	5900151	BENDPAK #90 WARRANTY CARD	1	A

DO NOT SCALE DRAWING
 DIMENSIONS ARE IN MM
 DRAWN AC 01/05/2010
 CHECKED MT 03/08/2012
 BENDPAK 1645 LEMONWOOD DR. SANTA PAULA, CA 93060



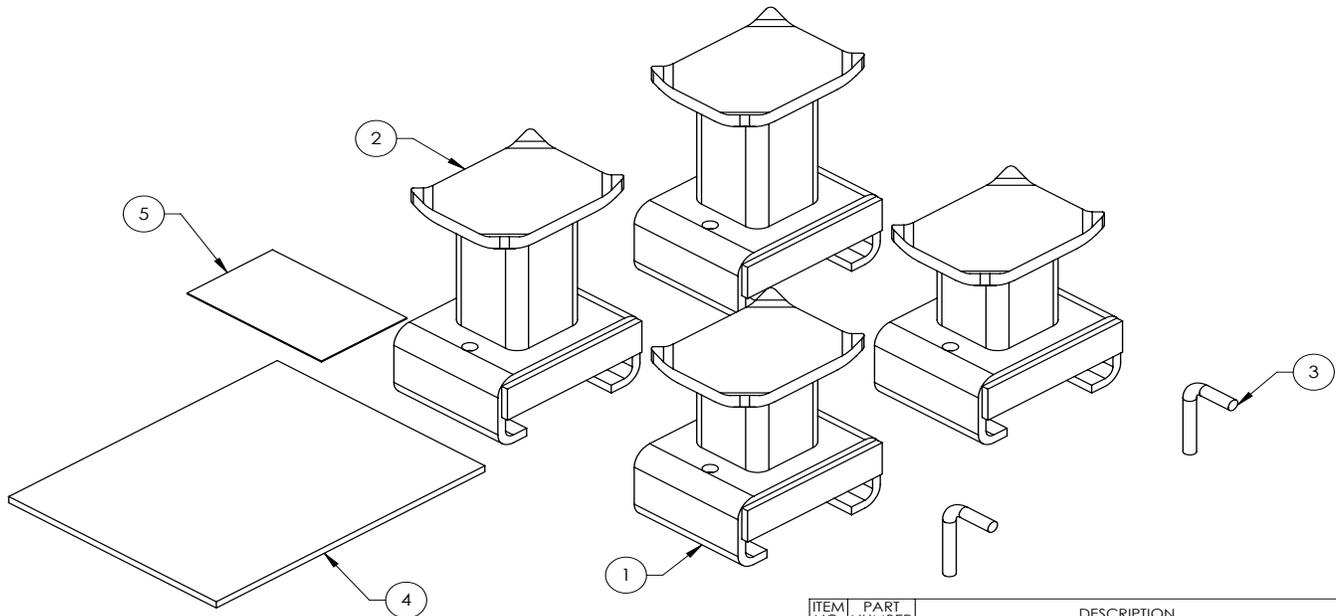
TITLE: RJ-12/15 PARTS BOX

NEXT ASSEMBLY	MATERIAL:
5220033	---

PROPRIETARY AND CONFIDENTIAL
 THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.

SIZE DWG. NO. REV
 A 5250116 C
 SCALE: 1:4 SHEET 1 OF 1

NOTE: UNLESS OTHERWISE SPECIFIED.
 1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING

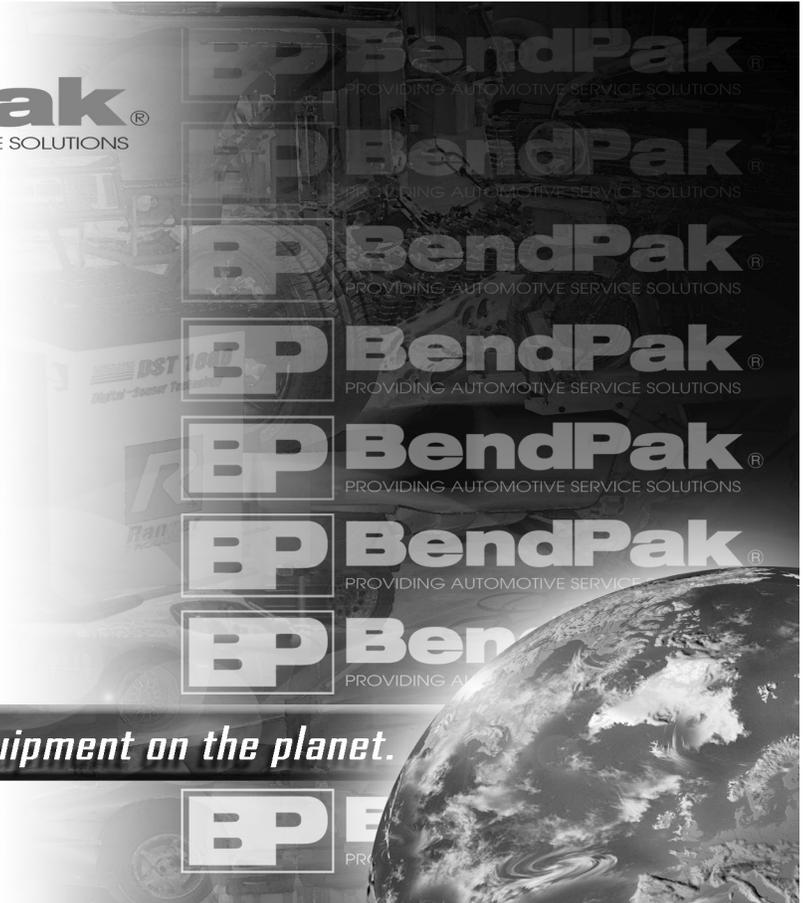


ITEM NO.	PART NUMBER	DESCRIPTION	QTY	REV
1	5210423	RJ-18000/25000 SHORT HEIGHT ADAPTER WELDMENT	2	A
2	5210424	RJ-18000/25000 LONG HEIGHT ADAPTER WELDMENT	2	A
3	5745054	RJ-12000/15000/18000/25000 HEIGHT ADAPTER RETAINER PIN	2	A
4	5900034	RJ SERIES INSTALLATION MANUAL	1	-
5	5900151	BENDPAK #90 WARRANTY CARD	1	-

DO NOT SCALE DRAWING		NAME	DATE	J645 LEMONWOOD DR. SANTA PAULA, CA 93060
DIMENSIONS ARE IN MM		DRAWN	AC 01/05/2010	
		CHECKED	MT 02/03/2011	TITLE: RJ-18000/25000 PARTS BOX
		THIRD ANGLE PROJECTION		
MATERIAL:	---	PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF BENDPAK INC. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF BENDPAK INC. IS PROHIBITED.		SIZE DWG. NO. REV A 5250117 B
SCALE:	---	SCALE: 1:4		SHEET 1 OF 1

NOTE: UNLESS OTHERWISE SPECIFIED.
 1. SEE SHIPPING INSTRUCTIONS FOR FINAL PACKAGING

NEXT ASSEMBLY
 5280034



The best automotive service equipment on the planet.

**For Parts Or Service
Contact:**

**BendPak Inc. / Ranger Products
1645 Lemonwood Dr.
Santa Paula, CA. 93060**

**Tel: 1-805-933-9970
Toll Free: 1-800-253-2363
Fax: 1-805-933-9160**

**www.bendpak.com
www.rangerproducts.com**

p/n 5900034

