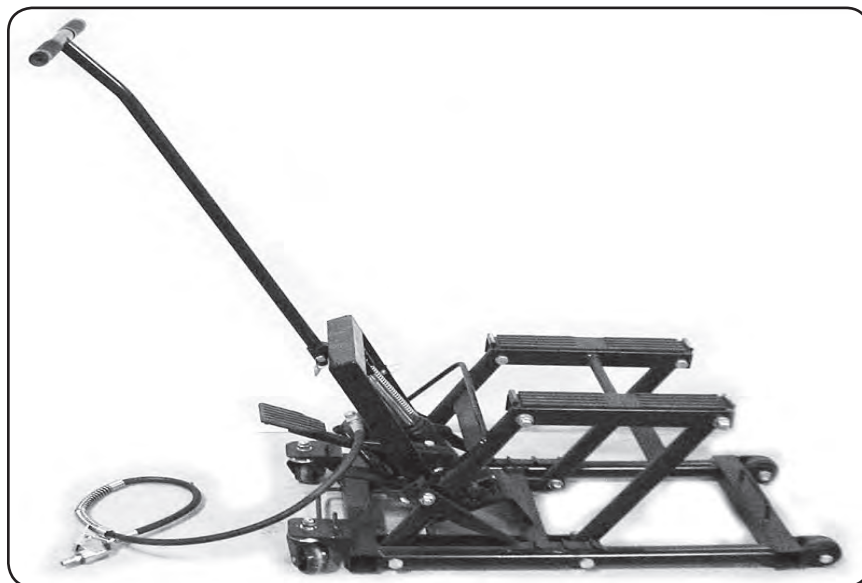


AIR OVER HYDRAULIC ATV/MOTORCYCLE LIFT

SET UP AND OPERATING INSTRUCTIONS



**Read this material before using this product.
Failure to do so can result in serious injury.
SAVE THIS MANUAL.**

SAVE THIS MANUAL

Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference.

Safety Alert Symbol and Signal Words

In this manual, on the labeling, and all other information provided with this product:



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

CAUTION

CAUTION, used with the safety alert symbol, indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

CAUTION

CAUTION, without the safety alert symbol, is used to address practices not related to personal injury.

IMPORTANT SAFETY INSTRUCTIONS

INSTRUCTIONS PERTAINING TO A RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS

WARNING – When using tools, basic precautions should always be followed, including the following:

General




- a. To reduce the risks of electric shock, fire, and injury to persons, read all the instructions before using the tool.

Work area

- a. Keep the work area clean and well lighted. Cluttered benches and dark areas increase the risks of electric shock, fire, and injury to persons.
- b. Do not operate the tool in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust. The tool is able to create sparks resulting in the ignition of the dust or fumes.
- c. *Keep bystanders, children, and visitors away while operating the*

tool. Distractions are able to result in the loss of control of the tool.

Personal safety

- a. **Stay alert. Watch what you are doing and use common sense when operating the tool. Do not use the tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating the tool increases the risk of injury to persons.
- b. **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair increases the risk of injury to persons as a result of being caught in moving parts.
- c. **Avoid unintentional starting. Be sure the switch is off before connecting to the air supply.**
- d. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations.
- e.  **Use safety equipment.** A dust mask, non-skid safety shoes and a hard hat must be used for the applicable conditions. Wear heavy-duty work gloves during use.
- f.  **Always wear eye protection.** Wear ANSI-approved safety goggles.
- g.  **Always wear hearing protection when using the tool.** Prolonged expo-

sure to high intensity noise is able to cause hearing loss.

- h. **Risk of Electric Shock. This tool is not provided with an insulated gripping surface.** Contact with a "live" wire will also make exposed metal parts of the tool "live" and shock the operator.

Tool use and care


- a. **Use clamps or another practical way to secure and support the ATV or Motorcycle on the platform.** Holding the work by hand or against the body is unstable and is able to lead to loss of control.
- b. **Do not force the tool.** Use the correct tool for the application. The correct tool will do the job better and safer at the rate for which the tool is designed.
- c. **Do not use the tool if the switch does not turn the tool on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- d. **Disconnect the tool from the air source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool unintentionally. Turn off and detach the air supply, safely discharge any residual air pressure, and release the throttle and/or turn the switch to its off position before leaving the work area.
- e. **Store the tool when it is idle out of reach of children and other untrained persons.** A tool is dangerous in the hands of untrained users.

- f. **Maintain the tool with care.** A properly maintained tool reduces the risk of binding and is easier to control.
- g. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that affects the tool's operation.** If damaged, have the tool serviced before using. Many accidents are caused by poorly maintained tools. There is a risk of bursting if the tool is damaged.
- h. **Use only accessories that are identified by the manufacturer for the specific tool model.** Use of an accessory not intended for use with the specific tool model, increases the risk of injury to persons.

Service

- a. ***Tool service must be performed only by qualified repair personnel.***
- b. **When servicing a tool, use only identical replacement parts. Use only authorized parts.**
- c. **Use only the lubricants supplied with the tool or specified by the manufacturer.**

Air source





- a.  **Never connect to an air source that is capable of exceeding 125 psi.** Over pressurizing the tool may cause bursting, abnormal operation, breakage of the tool or serious injury to persons. Use only clean, dry, regulated compressed air at the rated pressure or within the rated pressure range as marked on the tool. Always verify prior to using the tool that the air source has been adjusted to the

rated air pressure or within the rated air-pressure range.

- b. ***Never use oxygen, carbon dioxide, combustible gases or any bottled gas as an air source for the tool.*** Such gases are capable of explosion and serious injury to persons.

SYMBOLS AND SPECIFIC SAFETY INSTRUCTIONS

Symbol Definitions

| Symbol | Property or Statement |
|---|--|
| n_o | No-load speed |
| .../min | Revolutions or reciprocation per minute |
| PSI | Pounds per square inch of pressure |
| ft-lb | Foot-pounds of torque |
| BPM | Blows per minute |
| CFM | Cubic Feet per Minute flow |
| SCFM | Cubic Feet per Minute flow at standard conditions |
| NPT | National pipe thread, tapered |
| NPS | National pipe thread, straight |
|  | WARNING marking concerning Risk of Eye Injury. Wear ANSI-approved eye protection. |
|  | WARNING marking concerning Risk of Hearing Loss. Wear hearing protection. |
|  | WARNING marking concerning Risk of Respiratory Injury. Wear NIOSH-approved dust mask/respirator. |
|  | WARNING marking concerning Risk of Explosion. |

Specific Safety Instructions

1. The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.
2. Strap (not included) ATV/Motorcycle to Lift before use.
3. Center load directly over Saddle Platform (7) before use.
4. Do not exceed the maximum 1500 lb. weight capacity of this tool. **Be aware of dynamic loading!** Dropping or bouncing load may briefly create excess load causing product failure.
5. Obey the manual for the air compressor used to power this tool.
6. Do not exceed the maximum 125 PSI air pressure limit of this tool.
7. Install an in-line shutoff valve to allow immediate control over the air supply in an emergency, even if a hose is ruptured.
8. Do not leave Lift unattended during use.
9. Use this tool with both hands only. Using tools with only one hand can result in loss of control.
10. Do not leave any load on the Lift for an extended period of time. This Lift is not designed as a storage device. Remove motorcycle or ATV from Lift immediately after completing service operation.
11. Use only on flat, level surface able to support the weight of the Lift, the vehicle, and any tools that will be located in the work area.
12. Do not use Lift to move the motorcycle or ATV. This Lift is designed to lift the vehicle in place only.
13. Do not use Lift for any aircraft purpose.
14. For indoor use only.
15. Do not ride on this Lift. It is not a toy. Riding on Lift may cause personal injury.
16. Do not lower the vehicle quickly. Press the Release Pedal (18) gently when lowering to slowly lower the vehicle.
17. NEVER allow the vehicle to drop suddenly.
18. **WARNING** The brass components of this product contain lead, a chemical known to the State of California to cause birth defects (or other reproductive harm). (California Health & Safety code 25249.5, et seq.)



SAVE THESE INSTRUCTIONS.

SPECIFICATIONS

| | |
|--------------------------|---------------|
| Maximum Lifting Capacity | 1500 LBS |
| Maximum Lifting Height | 17" Off Floor |
| Collapsed Height | 4-1/2" |
| Maximum Air Pressure | 125 PSI |
| Air Inlet | 1/4" -18 NPT |
| Weight | 77 lb. |

INITIAL TOOL SET UP/ ASSEMBLY



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Unpacking

When unpacking, check to make sure that the item is intact and undamaged. If any parts are missing or broken, please contact the manufacturer.

The following items are included in the package:

- Basic Lift Assembly
- Air Hydraulic Pump
- Foot Pedal
- Hardware Kit
- Owner's Manual

NOTE: This air tool may be shipped with a protective plug covering the air inlet. Remove this plug before set up.

Air Supply

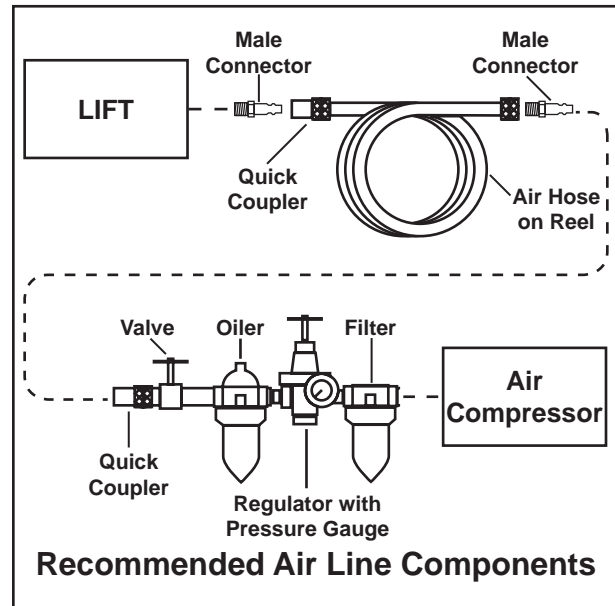
WARNING

TO PREVENT EXPLOSION:



Use only clean, dry, regulated, compressed air to power this tool. Do not use oxygen, carbon dioxide, combustible gases, or any other bottled gas as a power source for this tool.

NOTE: Incorporate an in-line oiler, shut-off valve, regulator with pressure gauge, and filter for best service, as shown in the following diagram. **An in-line shutoff valve is an important safety device because it controls the air supply even if the air hose is ruptured.**



1. Note: If an automatic oiler system is not used, add a few drops of Pneumatic Tool Oil to the airline connection before operation. Add a few more drops after each hour of continual use.

2. Attach an air hose to the compressor's air outlet. Connect the air hose to the air inlet of the tool. Other components, such as a connector and quick coupler, will make operation more efficient, but are not required.

⚠WARNING! TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:

Do not install a female quick coupler on the tool. Such a coupler contains an air valve that will allow the air tool to retain pressure and operate accidentally after the air supply is disconnected.

Note: Air flow, and therefore tool performance, can be hindered by undersized air supply components.

3. The air hose must be long enough to reach the work area with enough extra length to allow free movement while working.
4. Make sure the tool's throttle or switch is in the off position; refer to Operation section for description of controls.
5. Close the in-line safety valve between the compressor and the tool.
6. Turn on the air compressor according to the manufacturer's directions and allow it to build up pressure until it cycles off.
7. Adjust the air compressor's output regulator so that the air output is enough to properly power the tool, but the output will not exceed the tool's maximum air pressure (125 PSI) at any time. Adjust the pressure gradually, while checking the air

output gauge to set the right pressure range.

8. Inspect the air connections for leaks. Repair any leaks found.
9. If the tool will not be used at this time, turn off and detach the air supply, safely discharge any residual air pressure, and release the throttle and/or turn the switch to its off position to prevent accidental operation.

Note: Residual air pressure should not be present after the tool is disconnected from the air supply. However, it is a good safety measure to attempt to discharge the tool in a safe fashion after disconnecting to ensure that the tool is disconnected and not powered.

Assembly



Read the **ENTIRE IMPORTANT SAFETY INFORMATION** section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Inspect tool before use, looking for damaged, loose, and missing parts. If any problems are found, do not use tool until repaired.

1. Mount the Air / Hydraulic Ram Assembly (23) to the Base Assembly (5) using Bolts (20), Washers (21) and Nuts (22) from the supplied hardware kit.
2. Attach the Piston Bar (17) to the Brace Frame (12) using Ram Pin (15). Secure the Ram Pin (15) with the Locking Pin (14). Next attach the

Spring between the Pin and the Bolt at the base of the Pump.

3. Insert the Foot Pedal (18) into the Bracket that is part of the Ram Assembly and secure it with Bolt (16).
4. Insert the T-Handle (13) into the socket on the Brace Frame (12). Fix in place using the Locking Pin (14).

Before First Use

Pour 5 drops of good quality pneumatic oil lubricant into the Air Supply Inlet of the Control Valve (24). Connect the air supply and operate for 3 seconds to distribute the lubricant.

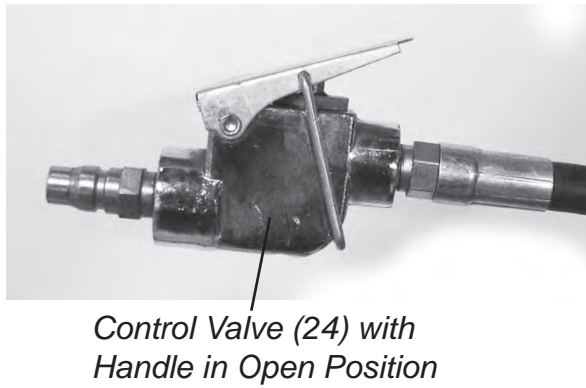
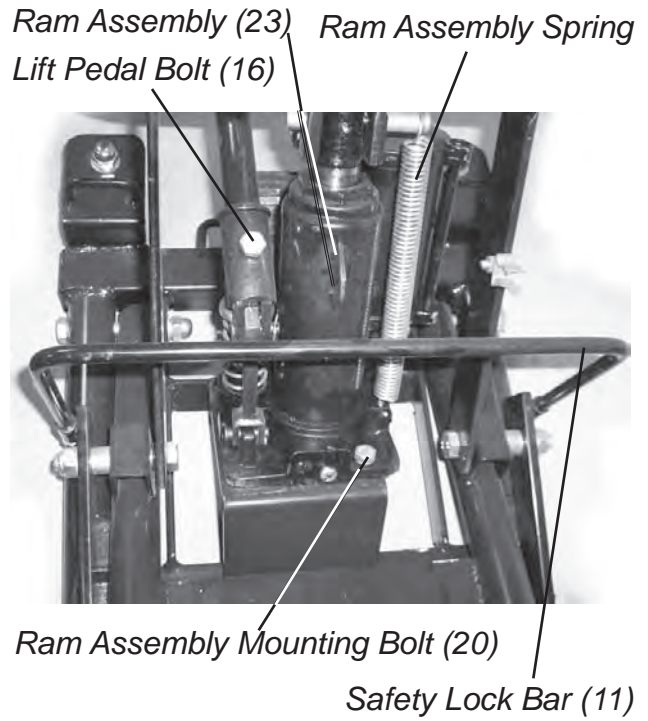
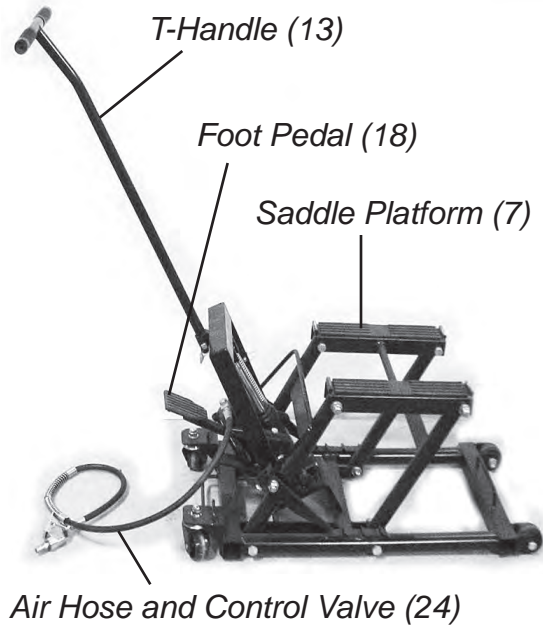
Purging air from the hydraulic system:

1. For Manual Operation:
Press and hold the Release Pedal (19) then pump the Foot Pedal (18) 15 to 20 times.
2. For Air Operation:
Connect the Air Supply Inlet of the Control Valve (24) to the air supply hose. Fully press the Release Pedal (19), then turn on the Control Valve (24) and let the Pump work for 30 seconds to eliminate any air in the hydraulic system.
3. Test the Lift without a load by raising and lowering it. Lower it slowly by pressing the Release Pedal (19) slowly. If the lift operates properly you have completed this process. If the Lift does raise or lower smoothly and controllably, repeat the purging process.

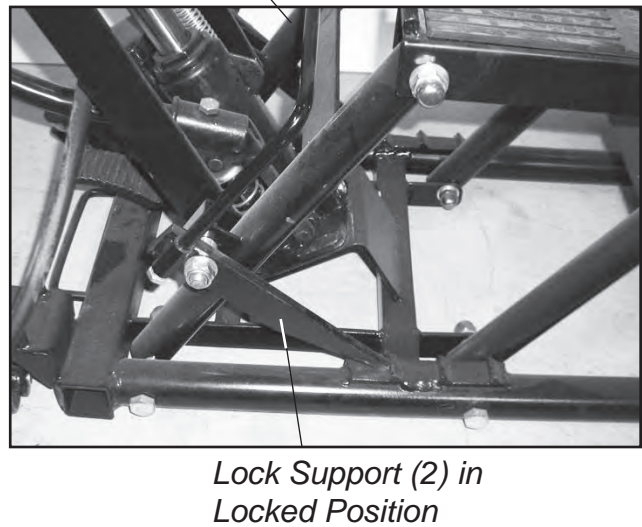
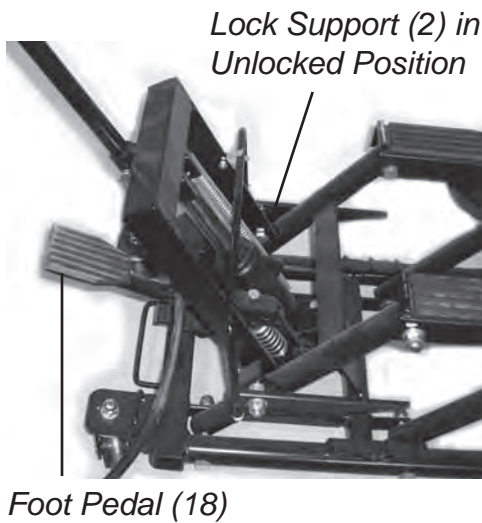
Adding hydraulic fluid to the Air Ram:

1. Remove the Oil Plug (30a) by gently lifting it out using a flat-head screw driver.
2. Fill new hydraulic fluid through the hole, replace the Oil Plug (30a).
3. Purge air from the hydraulic system. See Instructions above.

IMPORTANT COMPONENTS OF THE LIFT



Safety Lock Bar (11)



OPERATING INSTRUCTIONS

▲WARNING TO PREVENT SERIOUS INJURY:

Do not adjust or tamper with any control or component in a way not specifically explained within this manual. Improper adjustment can result in tool failure or other serious hazards.

1. Before Lifting any motorcycle, it must be securely fastened to the Saddle Platform (7) Tie-down straps (not included) or other suitable method.
2. Refer to the manufacturer's motorcycle or ATV service manual for recommended tie-down points.
3. Route the air hose along a safe route to reach the work area without creating a tripping hazard or exposing the air hose to possible damage. The air hose must be long enough to reach the work area with enough extra length to allow free movement while working.
4. There must not be hazardous objects (such as utility lines or foreign objects) nearby that will present a hazard while working.
5. If an automatic oiler is not used, add a few drops of Pneumatic Tool Oil to the airline connection before use. Add a few drops more after each hour of continual use.
6. Position the Lift and the load in a safe and suitable area as discussed above.
7. Press the Release Pedal (19) to fully lower the lift.
8. Use the T-Handle (13) to position the Lift under the load.
9. Connect the air supply hose to the Air Inlet Fitting of the Control Valve (24). Squeeze the handle of the Control Valve (24). If a pressurized air source is not available, pump the Foot Pedal (18) repeatedly to contact the load.
10. Once the Saddle Platform (7) is in contact with the load, release the Handle of the the Control Valve (24), or stop pumping.
11. Ensure that the load is securely positioned on the Saddle. Use Tie-down straps (not included) or other strong straps to secure the load to the Saddle.
12. With the load safely secured on the Saddle Platform, squeeze the handle of the Control Valve (24), or pump the Foot Pedal (18) repeatedly to raise the load to the desired height. Release the Control Valve (24) or stop pumping.
13. With the load at the desired height, immediately engage the Safety Bar (11) so the Saddle cannot lower unexpectedly. Push the Safety Bar forward to engage the Lock Support (2) in the notches in the side rail of the Frame Base.
14. Once the load has been lifted, do not move the Lift around. This Lift is not designed to transport any load.
15. When work has been completed on the load, clear all tools away from the area.
16. Disengage the Safety Bar (11) from the side rail of the Frame Base.

17. Press the Release Pedal (19) and GENTLY lower the load. NEVER allow the load to come down quickly or suddenly.
18. With the load fully lowered, remove the Straps (not included). Check to be sure the load remains stable.
19. Roll the lift away from the item.
20. To prevent accidents, detach the air supply. Clean external surfaces of the lift with clean, dry cloth. Then store the tool indoors out of children's reach.

USER-MAINTENANCE INSTRUCTIONS



Procedures not specifically explained in this manual must be performed only by a qualified technician.

WARNING

TO PREVENT SERIOUS INJURY

FROM ACCIDENTAL OPERATION:

Turn off the tool, detach the air supply, safely discharge any residual air pressure in the tool, and release the throttle and/or turn the switch to its off position before performing any inspection, maintenance, or cleaning procedures.

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:

Do not use damaged equipment. If abnormal noise, vibration, or leaking air occurs, have the problem corrected before further use.



TO PREVENT EXPLOSION:


Lubricate the tool only with specified lubricants. Lubricate the air inlet using only pneumatic tool oil. Other lubricants may damage the mechanism and may be highly flammable, causing an explosion.

Cleaning, Maintenance, and Lubrication

Note: These procedures are in addition to the regular checks and maintenance explained as part of the regular operation of the air-operated tool.

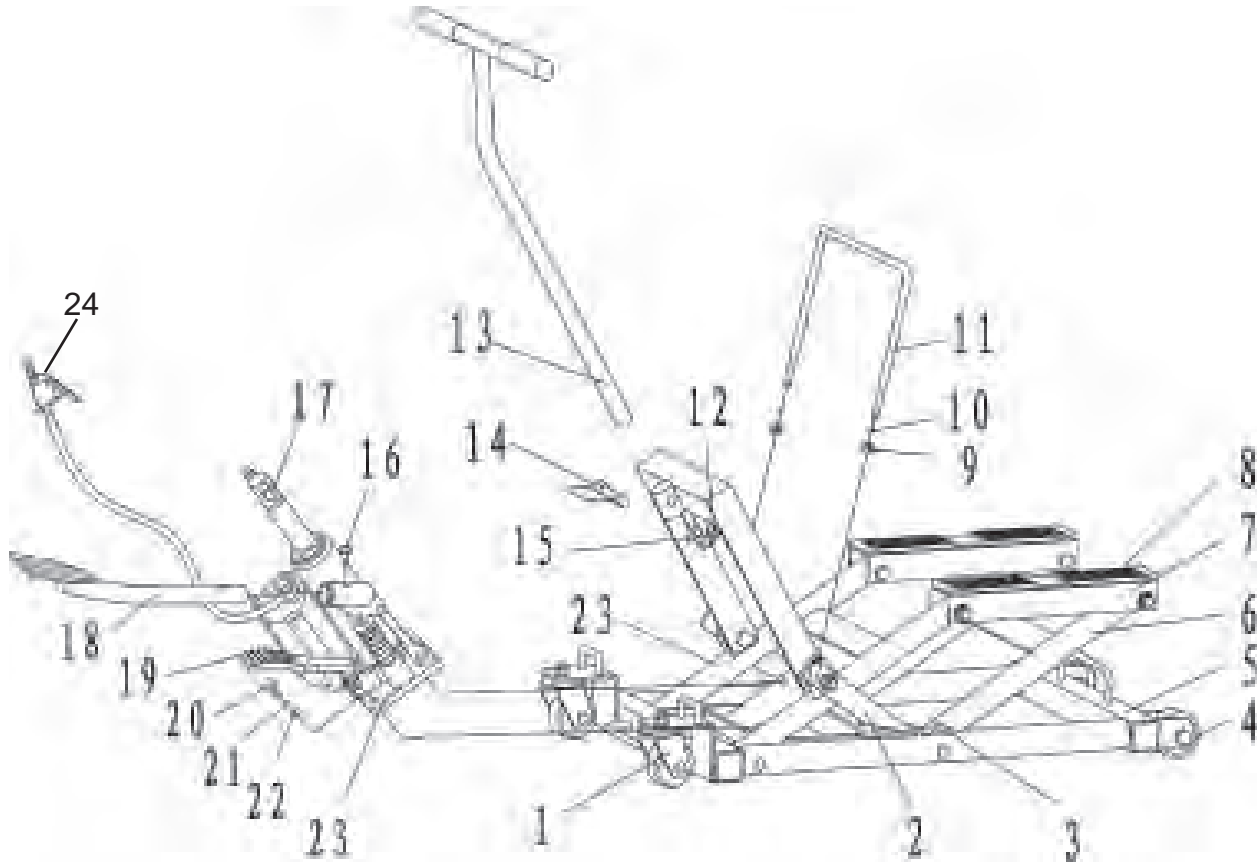
- 1. Daily - Air Supply Maintenance:**
Every day, perform maintenance on the air supply according to the component manufacturers' instructions. The lubricator's oil level needs to be maintained and the moisture filter must be regularly drained. Performing routine maintenance on the air supply will allow the tool to operate more safely and will also reduce wear on the tool.
- 2. Weekly - Pivot Point Lubrication and Safety Inspection:**
Lubricate the pivot points of the tool, using white lithium grease. Inspect for loose fasteners or any damage to the Lift. Repair immediately or mark "Out of Service" until repairs are made.
- 3.** If the jack becomes fails to lift you may need to add oil to the cylinder,

Troubleshooting

| Problem | Possible Causes | Likely Solutions |
|---|--|---|
| Decreased lifting power or lift fades. | <ol style="list-style-type: none"> 1. Not enough air pressure and/or air flow. 2. Obstructed trigger. 3. Incorrect lubrication or not enough lubrication. 4. Air leaking from loose connection. 5. Air Ram air or hydraulic seals leaking. Low hydraulic oil level. 6. Mechanism contaminated. | <ol style="list-style-type: none"> 1. Check for loose connections and make sure that air supply is providing enough air flow (CFM) at required pressure (PSI) to the tool's air inlet. Do not exceed maximum air pressure (125 PSI). 2. Clean around trigger to ensure free movement. 3. Lubricate using air tool oil and grease according to directions. 4. Make sure connections are properly assembled and tight. 5. Have qualified technician examine and repair if necessary. 6. Have qualified technician clean and lubricate mechanism. Install in-line filter in air supply as stated in Initial Set Up: Air Supply. |
| Severe air leakage. (Slight air leakage is normal, especially on older tools.) | <ol style="list-style-type: none"> 1. Cross-threaded air line components. 2. Loose connections. 3. Damaged Control Valve (24) or housing. 4. Dirty, worn or damaged valve. | <ol style="list-style-type: none"> 1. Check for incorrect alignment and uneven gaps. If cross-threaded, disassemble and replace damaged parts before use. 2. Tighten air line connections. 3. Replace damaged components. 4. Clean or replace valve assembly. |
| <div style="display: flex; align-items: center;">  <p>Follow all safety precautions whenever diagnosing or servicing the tool. Disconnect air supply before service.</p> </div> | | |

PARTS LIST AND ASSEMBLY DIAGRAM

Note: Part numbers on this page refer to the Lift Tool as shown in the Assembly Diagram on this page. Do not confuse these part numbers with part numbers for the Air Ram and Pump Assembly, which have an “a” suffix, and are listed on page 15.



| Item # | Description | QTY |
|--------|----------------------|-----|
| 1 | Caster Assembly | 2 |
| 2 | Lock Support | 2 |
| 3 | Stops | 2 |
| 4 | Front Wheels | 2 |
| 5 | Frame Base Assembly | 1 |
| 6 | Lifting Arm Assembly | 1 |
| 7 | Saddle Platform | 2 |
| 8 | Rubber Pads | 2 |
| 9 | Nut 8m | 2 |
| 10 | Lock Washer 8m | 2 |
| 11 | Safety Lock Bar | 1 |
| 12 | Brace Frame | 1 |

| Item # | Description | QTY |
|--------|---------------|-----|
| 13 | T-Handle | 1 |
| 14 | Locking Pin | 1 |
| 15 | Ram Pin | 1 |
| 16 | Pedal Bolt | 1 |
| 17 | Ram Piston | 1 |
| 18 | Foot Pedal | 1 |
| 19 | Release Pedal | 1 |
| 20 | Bolt 8m x 25 | 2 |
| 21 | Washer 8m | 2 |
| 22 | Nut 8m | 2 |
| 23 | Ram Assembly | 1 |
| 24 | Control Valve | 1 |

PARTS LIST FOR AIR RAM AND PUMP

Note: This parts list is for the Air Ram and Pump Assembly. Please refer to Assembly diagram on following page (16).

| Part | Description | QTY |
|------|--------------------|-----|
| 1a | Release Valve Bolt | 2 |
| 2a | Rubber O-Ring | 2 |
| 3a | Adjust Valve Bolt | 2 |
| 4a | Small Washer | 2 |
| 5a | Spring | 3 |
| 6a | Ball Base | 3 |
| 7a | Ball 4m | 2 |
| 8a | Ball 6m | 4 |
| 9a | Rubber Seal | 1 |
| 10a | Release Bolt | 1 |
| 11a | Valve | 1 |
| 12a | O-Ring | 1 |
| 13a | Release Bar | 1 |
| 14a | Y Type Seal | 1 |
| 15a | Base | 1 |
| 16a | Pressure Circle | 1 |

| Part | Description | QTY |
|------|-------------------|-----|
| 17a | Piston Bar | 1 |
| 18a | Cap | 1 |
| 19a | Seal | 1 |
| 20a | Steel Washer | 2 |
| 21a | Ram Pipe | 1 |
| 22a | O-Seal | 1 |
| 23a | Cotter Pin | 1 |
| 24a | Piston | 1 |
| 25a | Steel Filter | 2 |
| 26a | Nylon Seal | 1 |
| 27a | Washer | 1 |
| 28a | Ram Pipe | 1 |
| 29a | Outer Pipe | 1 |
| 30a | Oil Plug | 1 |
| 31a | Nylon Seal | 1 |
| 32a | Air Pump Assembly | 1 |

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

AIR RAM AND PUMP ASSEMBLY DIAGRAM

Note: All parts for the Air Ram and Pump Assembly have an “a” suffix, such as “19a”. Do not confuse these part numbers with the part numbers for the Lift Tool which are listed on page 14, and have no suffix.

