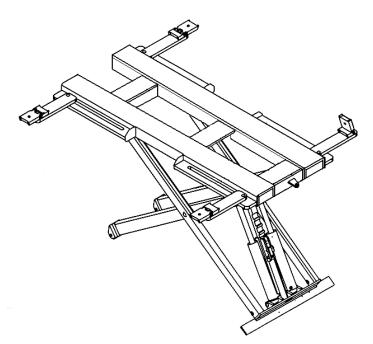


INSTALLATION and OPERATION MANUAL



MIDRISE

MODEL JBC6501E / JBC6501A 6,500 LB. CAPACITY

READ THIS INSTRUCTION MANUAL THOROUGHLY BEFORE INSTALLING, OPERATING, SERVICING OR MAINTAINING THE LIFT. SAVE THIS MANUAL.



309 EXCHANGE AVENUE, CONWAY, ARKANSAS, 72032 TEL: 501-450-1500 FAX: 501-450-1585

NOV 2007 REV.B 6-3294

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1. SAFETY INSTRUCTIONS

- 1. <u>**CAUTION**</u> When using this lift, basic safety precautions should always be followed, including the following:
- 2. Read all instructions in this manual and on the lift thoroughly before installing, operating, servicing or maintaining the lift.
- The Midrise lift is designed for tire, brake and body work. It is not recommended for under vehicle work. If this type of work is being done, use (4) adequate capacity & height safety stands at (4) appropriate lifting point on the vehicle. Safety stands are available from your dealer.



- 4. Inspect your Midrise lift daily. Do not operate if it malfunctions or has damaged parts.
- 5. Never attempt to overload the lift. The manufacturer's rated capacity is shown on the serial number tag.
- 6. **DO NOT OVERRIDE** the automatic safety devices incorporated into the lift. Work on the vehicle only when the mechanical safety lock on the lift is activated.
- 7. Only trained and authorized personnel should operate the lift. Do not allow customers or bystanders to operate the lift or be in the work area.
- 8. Before driving over lift, position the arms to the drive-through position to ensure unobstructed clearance. Do not hit or run over arms as this could damage the lift and/or vehicle.
- 9. Position the lifting arms or rubber lift blocks to contact the vehicle manufacturer's recommended lifting points. Raise the lift until the pads contact the vehicle. Check pads for secure contact with the vehicle, then raise the lift to the mechanical safety working height.
- 10. Always keep the lift area free of obstruction and debris. Grease and oil spills should be cleaned up immediately.

NOTE: When positioning a vehicle over the lift, take time to center the load front to-rear and side-to-side. The removal or installation of some vehicle parts may cause a critical shift in the center of gravity and may cause the vehicle to become unstable. 11. Before driving over the lift make certain that the lift is completely in the down position, the lifting arms are in the stowed position and that the lifting pads are in the down position.

NOTE: DO NOT ATTEMPT TO OPERATE THE LIFT IF ANY PART IS NOT WORKING PROPERLY OR IF YOU HAVE NOT READ THE COMPLETE OPERATING INSTRUCTION MANUAL.

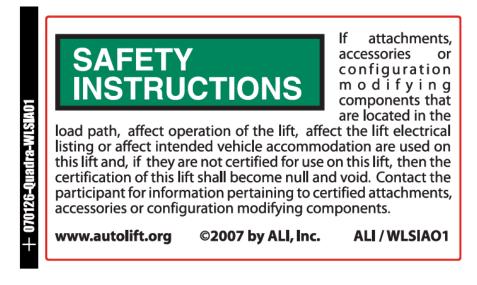
- 12. Never raise vehicle with passengers inside.
- 13. Before lowering check area for any obstructions.
- 14. Before removing the vehicle from the lift area, position the arms to the drivethru position to prevent damage to the lift and /or vehicle.
- 15. Do not remove hydraulic fittings while under pressure.

For additional safety instructions regarding lifting, lift types, warning labels, preparing to lift, vehicle spotting, vehicle lifting, maintaining load stability, emergency procedures, vehicle lowering, lift limitations, lift maintenance, good shop practices, installation, operator training and owner/employer responsibilities, please refer to "Lifting It Right" (ALI/SM) and "Safety Tips" (ALI/ST).

For additional instruction on general requirements for lift operation, please refer to "Automotive Lift-Safety Requirements For Operation, Inspection and Maintenance" (ANSI/ALI ALOIM).

Installation shall be performed in accordance with ANSO/ALI ALIS, Safety Requirements for Installation and Service of Automotive Lifts.

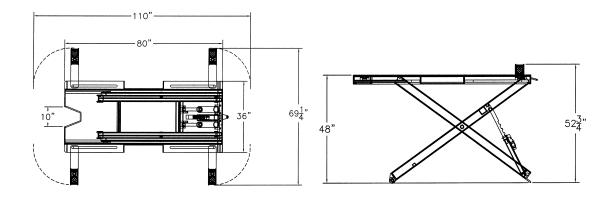
<u>ATTENTION!</u> This lift is intended for indoor installation only. It is prohibited to install this product outdoors. Operating environment temperature range should be 41 - 104 °F (5 – 40 °C). Failure to adhere will result in decertification, loss of warranty, and possible damage to the equipment.



2. GENERAL SPECIFICATIONS

Maximum Capacity: Maximum Lift Height: Down Position Height: Shipping Weight: Lift Time: Power Requirements:

| 6,500 lbs. | 2948 kg. | | | | |
|-----------------------------|----------|--|--|--|--|
| 48" | 1219mm | | | | |
| 4 7/8" | 124mm | | | | |
| 1000 lbs. | 454 kg. | | | | |
| 60 seconds | | | | | |
| 115 V / 1 PH - 1 H.P. Motor | | | | | |



3. TOOLS REQUIRED

7/16" wrench 5/16" socket 5/8" wrench Side cutters

4. SHIPPING CONTENTS

The complete Midrise Lift is contained in two (2) packages. The main structure is packaged onto a shipping skid. The main structure comes fully assembled with lifting arms, main rollers and hydraulics. The remaining items come in an accessory box.

Accessory Box Contains:

- Power Pack and Tow Cart
- Required Hardware

Customer Care Kit: (inside accessory box)

- ALI manual "Lifting It Right"
- Automotive Lift Safety Tips
- Automotive Lift, Operation, Inspection and Maintenance manual
- "ALI" Quick Reference Guide
- Owner's manual

5. INSTALLATION INSTRUCTIONS

When lift arrives on site, please read the owner's manual and check for any freight damage. Also, check the contents to make sure no parts are missing before starting assembly.

5.1 UNPACKING PROCEDURE

Remove the metal strapping from the main structure package and slide the lift off the shipping skid. Open the accessory box and check the contents of the box.

NOTE: The Power Unit is already installed on the Tow Cart

5.2 ASSEMBLY INSTRUCTIONS

Install the handle onto the Power Unit Tow Cart. Align the hole and fasten together using the 1/4"-20UNC x 3/4" LG. hex head bolt and lock washer supplied. See Section 4.4 for safety pedal installation.

5.3 HYDRAULIC SYSTEM INSTALLATION

- 1. Remove breather cap and add 1.1 gallon (4 liters) of ISO 32 (10 Hydraulic weight) hydraulic oil to the Power Unit.
- 2. Reinstall the filler breather cap onto the Power Unit.
- **3.** Attach the 90° elbow from the hardware kit to the power unit by removing the red plastic cap.
- 4. Connect the 3/8" NPT-M end of the 12ft. long hydraulic hose to the 3/8" 90 degree fitting that is already installed on the short hydraulic hose at the front of the lift.
- 5. Install the 1/4" JIC female end of the 12' long hydraulic hose to the outlet fitting on the power pack.
- 6. Plug the power pack utility cord into an approved 110 Volt outlet.

5.4 HYDRAULIC SYSTEM BLEEDING PROCEDURE

NOTE: Make certain lift area is clear from debris and any obstructions. See section 6 for operating instructions.

- 1. Raise the lift a few inches off the floor. Check for any hydraulic leaks.
- **2.** Lower the lift completely
- 3. Repeat this procedure.
- 4. Raise the lift to full height.
- 5. Attach the safety release pedal to the front angle with self tapping screws provided with the pedal on the outside (See exploded view on pg. 10).
- **6.** Assemble linkage to pedal release bar with retainer provided in the hardware kit (#34 in exploded view on pg.10).
- 7. Press safety pedal to disengage safety mechanism.
- **8.** Lower lift completely.
- 9. Raise and lower lift several times while checking for proper operation.
- **10.** The hydraulic system is self bleeding

6. POSITIONING INSTRUCTIONS

NOTE: Please review ALI safety card attached to tow cart and inspect lift for mechanical fitness before using.

NOTE: Lifts <u>must</u> only be installed on "level" concrete floors, with a minimum thickness of three (3) inches. Concrete must have a minimum strength of 4,000 psi, and should be aged 30 days prior to installation.

- 1. To move lift, insert the lifting tab of the Power Tow Cart to the lifting bracket on the Mid-Rise. Tilt the cart back and move the Mid-Rise into position in the center of the work area or bay.
- **2.** Remove the Power Tow Cart from the lifting bracket of the Mid-Rise and roll the cart to the front of the bay.
- **3.** Plug the electric utility cord into an approved 110V outlet.
- **4.** With the lifting arms in the stowed position, in line with the main frame, drive a vehicle over the lift.
- **NOTE:** When positioning a vehicle over the lift, take time to equalize the load front-to-rear and side-to-side.
- **NOTE:** The Midrise lift may be used as a frame contact lift or as a platform lift, depending on the type of vehicle being worked on and the manufacturer recommended lifting points for that vehicle.
- **NOTE:** Obstructions hanging down from the vehicle may be damaged when lifting. Always check between the vehicle and the contact points on the lift.
- 5. When in use as a frame contact lift, slide the lifting arms freely along the length of the arm support to the desired position. The flip up lift pads have three (3)

positions, select and position as recommended to contact the correct lifting points for this vehicle.

NOTE: Some vehicles may require optional riser adapters to reach the manufacturer's recommended lift points.

When in use as a platform lift, move the lifting arms into the stowed position, in line with the main frame. Position the four (4) rubber lifting blocks on top of the platform.

NOTE: Leave additional room for any desired aisle or work area. Recommended clearance around lift is three feet (3 ft). Recommended overhead clearance is a minimum twelve feet (10 ft) ceiling providing 4 feet for the maximum lift height and 6 feet for the supported vehicle. For vehicles taller than 6 feet it is recommended that the user provides additional overhead clearance or a shut off mechanism to stop the lift from raising the vehicle too high. Ensure clearance conforms to local building and fire codes.

6.1 FINAL CHECK OF ASSEMBLED LIFT

| 1. | Check for hydraulic leaks. | | | | |
|----|--|--|--|--|--|
| 2. | . Check that LOCTITE has been applied to all hardware where required | | | | |
| 3. | Check adjustment of safety release | | | | |
| 4. | Check all fasteners, tighten if necessary. | | | | |
| 5. | Operate lift to full stroke then lower to ground while checking for proper functionality. | | | | |
| 6. | Ensure Customer Care Kit is complete and given to operator. | | | | |
| | a. Operation Manual | | | | |
| | b. ANSI / ALI Lift It Right Manual | | | | |
| | c. ANSI / ALI Safety Tip Card | | | | |
| | d. ANSI / ALI ALIS Safety Requirements for Installation and Service of Automotive Lifts | | | | |
| | e. ANSI / ALI Quick Reference Guide | | | | |
| 7. | Train end user on operation of lift. | | | | |

6.2 OPERATION TEST WITH VEHICLE

- 1. Lower lift to ground.
- 2. Drive vehicle on to lift and locate the arms as per the "Lift it Right" manual.
- 3. Raise lift to and lower onto 3-4 lock positions during full rise to ensure all locks are working correctly.
- 4. Check lowering speed and smooth decent rate.
- 5. Lower lift to ground and drive vehicle off lift.

If any problems occur during the final checkout or operation of the lift please contact customer service at 1-800-268-7959

7. OPERATING INSTRUCTIONS

- 1. Raise the lift by pressing the "UP" button on the front face of the Power Unit.
- 2. Continue raising the lift until the mechanical safety "CLICKS" into position. The safety has five positions between lift heights of 24" and 48". Always lower the lift in order to fully engage the mechanical safety lock when the desired working height is reached.
- **3.** To lower the lift; first disengage the safety by raising the lift 1" and pressing the safety release pedal. Next, push the lever on the Power Unit.
- **4.** Lower the lift to the fully down position.
- NOTE: The safety mechanism automatically resets when the lift is raised again.
- **5.** Reposition the lifting arms to the stowed position and/or remove the rubber lift blocks.
- 6. Remove the vehicle by driving forward or reverse off the lift.
- **7.** If the Midrise lift will not be used for any given period of time unplug the power cord.

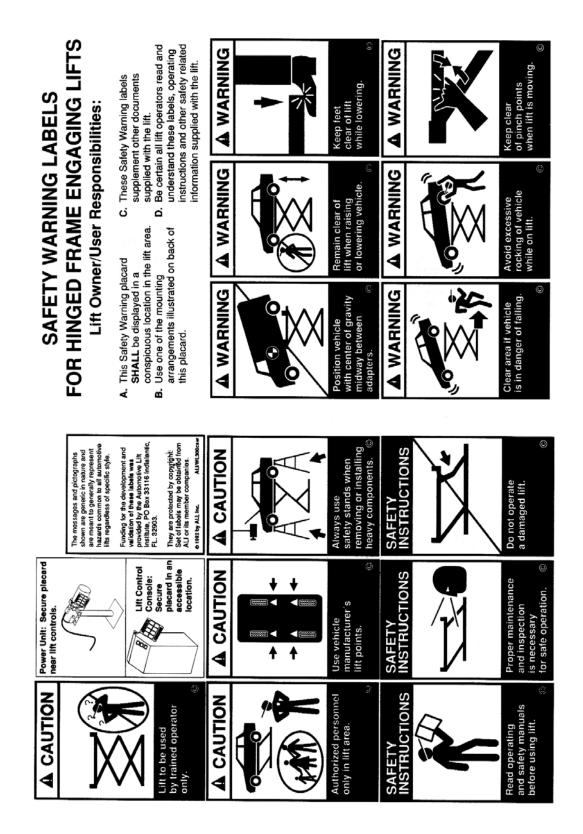
8. RECOMMENDED MAINTENANCE

8.1 DAILY MAINTENANCE

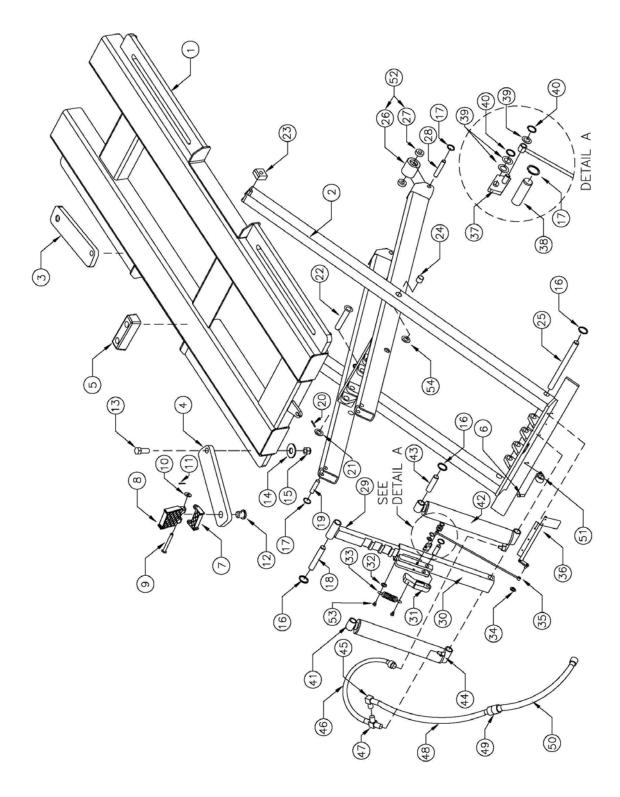
- **1.** Check general operation of lift.
- 2. Check operation of mechanical safety lock engaging and disengaging.
- 3. Check condition of floor in roller area for cracks and debris.
- 4. Check position of hydraulic hose, ensure that a vehicle positioned on the lift or the lift itself will not damage the hose.
- 5. Check condition of electrical cord before plugging into an approved 110V power supply.

8.2 MONTHLY MAINTENANCE

- 1. Check all hydraulic hoses, fittings and cylinders for leaks.
- 2. Check level of oil in power unit reservoir when unit is in the lowered position. Add more if required.
- 3. Check and lubricate safety release device and glide blocks.
- **4.** Inspect 110V plug end and cable.
- 5. Inspect rollers on tow cart and main structure.
- 6. Inspect lift area for debris and concrete condition.



10. PARTS MANUAL10.1 MIDRISE MAIN FRAME ASSEMBLY



ITEM NO. QTY. DESCRIPTION

| 1 | 1 | DECK ASSEMBLY | 4-1147 |
|---------------|---------------|---|---------|
| 2 | 1 | SCISSOR ASSEMBLY | 4-0943 |
| $\frac{2}{3}$ | $\frac{1}{2}$ | ARM (RIGHT FRONT / LEFT REAR) | 2-1809 |
| | | | |
| 4 | 2 | ARM (LEFT FRONT / RIGHT REAR) | 2-1808 |
| 5 | 4 | RUBBER BLOCK | 6-1074 |
| 6 | 4 | SELF TAPPING SCREW #12 X ¹ /2" LG. | 6-1134 |
| 7 | 4 | LOW ADAPTER | 3-0583 |
| 8 | 4 | HIGH ADAPTER | 3-0582 |
| 9 | 4 | CENTER PIN | 1-1099 |
| 10 | 4 | FLAT WASHER ¹ /2" I.D. | 6-0063 |
| 10 | 4 | COTTER PIN $1/8$ " X 1 $\frac{1}{2}$ " LG. | 6-0267 |
| | | | |
| 12 | 4 | ADAPTER PIN | 1-1091 |
| 13 | 4 | ARM BOLT | 1-1076 |
| 14 | 4 | FLAT WASHER 1" I.D. | 6-1106 |
| 15 | 4 | LOCK NUT 1"- 8 UNC | 1-1385 |
| 16 | 8 | EXTERNAL SNAP RING 1" | 6-0581* |
| 17 | 10 | EXTERNAL SNAP RING 34" | 6-2445* |
| 18 | 1 | SAFETY UPPER PIN | 1-2342 |
| 19 | 2 | HINGE PIN | 1-2336 |
| 20 | $\frac{2}{2}$ | SPRING PIN 3/16" X 1 ¼" LG. | 6-0749 |
| | 2 | | |
| 21 | 2 | KEEPER WASHER | 1-0725 |
| 22 | 2 | SCISSOR PIN | 1-2373 |
| 23 | 2 | GLIDE BLOCK | 1-2335 |
| 24 | 8 | FIBRE WOUND BEARING | 6-1620 |
| 25 | 1 | LOWER CYLINDER MOUNTING PIN | 1-2343 |
| 26 | 2 | ROLLER | 1-0807 |
| 27 | 4 | BEARING | 6-0751 |
| 28 | 2 | ROLLER PIN | 1-2338 |
| 29 | 1 | SAFETY RACK | 2-1821* |
| 30 | 1 | SAFETY OUTER | 3-0844* |
| 31 | 1 | SAFETY LOCK | 1-2371* |
| 32 | 1 | FLAT WASHER #10 I.D. | 6-0816* |
| 32 | | SPRING | 1-1115* |
| | 1 | | |
| 34 | 1 | RETAINER 5/16" | 6-2470* |
| 35 | 1 | PUSHROD | 2-1822* |
| 36 | 1 | SAFETY PEDAL ASSEMBLY | 2-1823 |
| 37 | 1 | SAFETY RESET | 1-2370* |
| 38 | 1 | SAFETY LOCK PIN | 1-2337* |
| 39 | 3 | FLAT WASHER 21/64" ID x 19/32" OD x 0.062 | 6-3265* |
| 40 | 2 | EXTERNAL SNAP RING 5/16" | 6-2449* |
| 41 | 1 | HYDRAULIC CYLINDER (P.S.) | 3-0839 |
| 42 | 1 | HYDRAULIC CYLINDER (D.S.) | 3-0838 |
| 43 | 2 | UPPER CYLINDER MOUNTING PIN | 1-2340 |
| 44 | $\frac{2}{2}$ | FLOW CONTROL 90° ELBOW | 6-1638 |
| 44 | 1 | | 6-2467 |
| | 1 | 90° SWIVEL ELBOW | |
| 46 | 1 | HYDRAULIC HOSE 13" | 1-2368 |
| 47 | 1 | SWIVEL TEE | 6-2466 |
| | | | |

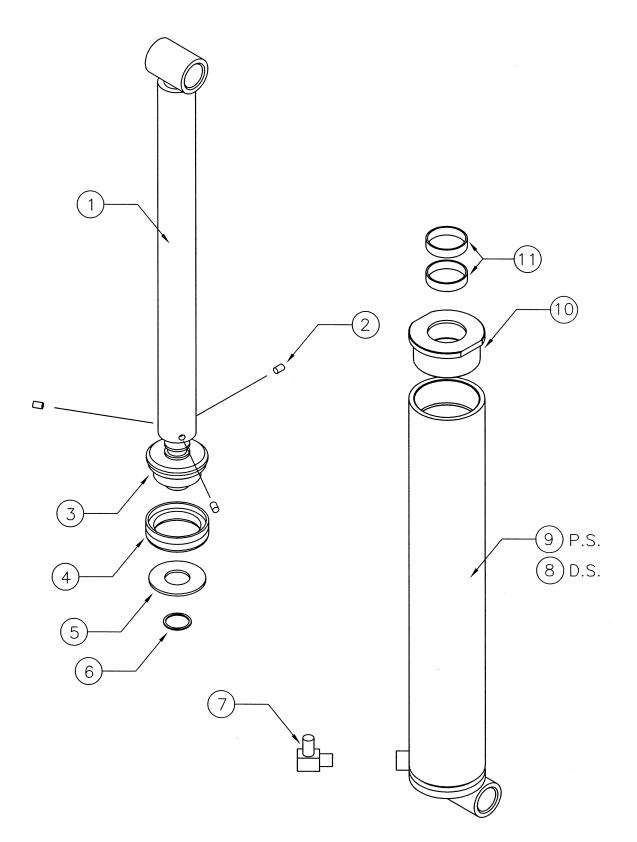
ITEM NO. QTY. DESCRIPTION

PART NO.

PART NO.

| 48 | 1 | HYDRAULIC HOSE 19" LG. | 1-0858 |
|----|---|-------------------------------------|----------|
| 49 | 1 | 3/8" NPT-F STRAIGHT HYDRAULIC STEEL | 70531931 |
| 50 | 1 | HYDRAULIC HOSE 12' | 2-0602 |
| 51 | 1 | TUBE CLAMP ¹ /2" | 6-0536 |
| 52 | 2 | ROLLER ASSEMBLY KIT (W/ ROLLER | 0-0191 |
| 53 | 2 | SELF TAPPING SCREW #10 X 3/8" LG. | 6-0169* |
| 54 | 4 | THRUST WASHER | 6-0807 |

NOTE: ITEMS MARKED WITH (*) ARE PART OF *SAFETY ASSEMBLY KIT # 0-0900*.



10.4 HYDRAULIC CYLINDER ASSEMBLY - PARTS LIST

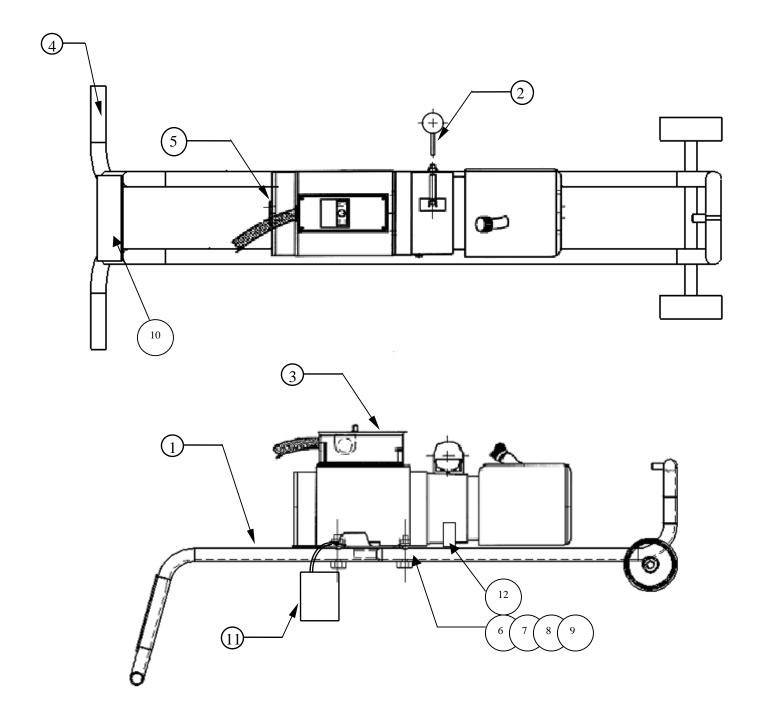
ITEM NO. QTY. DESCRIPTION

PART NO.

| 1 2 | 1 3 | PISTON TUBE WELDMENT SET SCREW | 2-1827 6-0580 |
|--------|--------|-----------------------------------|------------------|
| 3 | 1 | PISTON | 2-1806 |
| 4 | 1 | PISTON SEAL KIT | 6-2915* |
| 5 | 1 | KEEPER WASHER | 1-1148* |
| 6 | 1 | EXTERNAL SNAP RING | 6-0581* |
| 7 | 1 | FLOW CONTROL 90° ELBOW | 6-1638 |
| 8 | 1 | CYLINDER TUBE (D.S.) | 2-1828 |
| 9 | 1 | CYLINDER TUBE (P.S.) | 2-1829 |
| 10 | 1 | GLAND | 1-2345 |
| 11 | 2 | WEAR RING | 6-2093 |

NOTE: PART NUMBERS MARKED WITH AN ASTERIX (*) ARE CONTAINED IN REPAIR KIT NUMBER 0-1287 (1 CYL.) AND 0-1288 (2 CYL.)

10.5 POWER UNIT TOW CART



10.6 POWER UNIT TOW CART - PARTS LIST

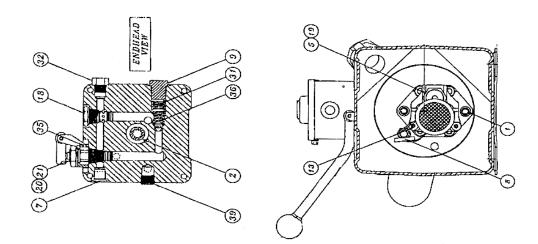
ITEM NO. QTY. DESCRIPTION

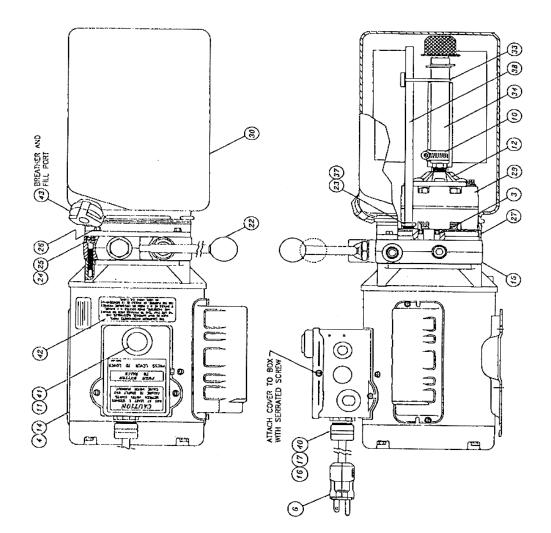
PART NO.

| 1 | 1 2 | STAND (WITH WHEELS AND HUB CAP NUTS) 4" DIA PLASTIC WHEELS | 4-0207-01 6-0753 |
|----|--------|---|---------------------|
| • | 2 | HUBCAP NUTS | 6-1833 |
| 2 | I | ADAPTER-MACHINED W/ ORIFICES (.035"DIA) | 1-1063 |
| 3 | 1 | POWER PACK 115/230V 1PH 60HZ 1 HP | 6-2249 |
| 4 | 2 | GRIP HANDLE | 6-0758 |
| 5 | 1 | PLUG | 6-1711 |
| 6 | 4 | HEX BOLT 1/4"-20UNC | 6-0028 |
| 7 | 4 | LOCKWASHER 1/4" I.D. | 6-0056 |
| 8 | 4 | FLAT WASHER 5/16" I.D. | 6-0295 |
| 9 | 4 | HEX NUT 1/4"-20UNC | 6-0032 |
| 10 | 1 | DECAL "OPERATING INSTRUCTIONS" | 6-2469 |
| 11 | 1 | ALI PLACARD | 6-0990 |
| 12 | 1 | 90° ELBOW | 6-1093 |
| * | 1 | COMPLETE TOWCART W/ ELECTRIC POWER | 4-0955 |

** SEE NEXT PAGE FOR THE POWER UNIT ASSEMBLY

10.7 POWER UNIT #6-2249 (AB-1425) 115-230V/1PH/60Hz





10.8 POWER UNIT PARTS LIST

#6-2249 (AB-1425) 115-230V/1PH/60Hz

| ITEM | QTY. | DESCRIPTION | PART # |
|------|------|---|--------|
| 1 | 2 | BOLT 5/16"-24 x 2 3/4" TORX G8 | 6-2298 |
| 2 | 1 | COUPLING SAE 9T-20/40 1.260" | 6-0774 |
| 3 | 1 | SEAL SHAFT 0.500" x 1.00" x 0.25" | 6-2158 |
| 4 | 1 | MOTOR AC PSC #613000 115/230 1 HP 1PH BLK | 6-2299 |
| 5 | 1 | WASHER 0.338" x 0.625" x 0.060" STEEL | 6-2159 |
| 6 | 1 | CORDSET 16/3 SJO 8FT 115V PLUG | 6-2300 |
| 7 | 1 | PACKAGE PLUG 9/16" SAE | 6-2301 |
| 8 | 1 | PLUMBING MAGNET | 6-2162 |
| 9 | 1 | RELIEF VALVE CAP ASSEMBLY | 6-1089 |
| 10 | 1 | PLUMBING CLAMP HOSE ADJ INLET | 6-2166 |
| 11 | 2 | ELECTRIC STAKON NUT | 6-2302 |
| 12 | 1 | COVER ASS'Y SUCTION | 6-2165 |
| 13 | 2 | SCREW TAPTITE M6x1.0 12MM TORX | 6-2164 |
| 14 | 1 | NAMEPLATE, SERIAL | |
| 15 | 1 | ENDHEAD UNIVERSAL AUTOHOIST | 6-2155 |
| 16 | 1 | ELECTRIC CORD GRIP 3/4" NPT | 6-2303 |
| 17 | 1 | ELECTRIC PIPENUT 3/4" | 6-2304 |
| 18 | 1 | VALVE CARTRIDGE CHECK | 6-1087 |
| 19 | 1 | VALVE LOAD DELAY | 6-2305 |
| 20 | 1 | NUT ³ /4"-16 x 1"HEX x 0.250 STEEL | 6-2167 |
| 21 | 1 | WASAHER ¾" INT. TOOTH LOCK | 6-2168 |
| 22 | 1 | BRACKET HANDLE ASS'Y REL BLACK | 6-0776 |
| 23 | 1 | COMPRESSION TUBE NUT | 6-2153 |
| 24 | 4 | BOLT M6 x 1.0 35MM SOC HD | 6-2169 |
| 25 | 4 | WASHER 1/4" LOCK HI-COLLAR | 6-2170 |
| 26 | 4 | BOLT #12-24 x .50 HEX WSHRHD | 6-1091 |
| 27 | 1 | O-RING 2-348 BUNA | 6-0875 |
| 28 | 1 | COVER ASSY SUCTION | 6-2165 |
| 29 | 1 | PUMP ASS'Y 0.8 SHORT SPLINE | 6-2306 |
| 30 | 1 | TANK PLASTIC 6.7 CT 11.0" BLACK | 6-2307 |
| 31 | 1 | SPRING 0.480" x 0.063" x 0.42" COMP | 6-2151 |
| 32 | 1 | PLUMBING PLUG 5/16" SAE | 6-2157 |
| 33 | 1 | CABLE TIE 8" LONG WHITE | 6-1846 |
| 34 | 1 | PLUMBING ASS'Y INLET 6.61 (3) | 6-2308 |
| 35 | 1 | VALVE CARTRIDGE RELEASE MANUAL | 6-0880 |
| 36 | 1 | RELIEF ASSEMBLY FIXED 260 BAR | 6-1326 |
| 37 | 1 | COMPRESSION TUBE SLEEVE | 6-2154 |
| 38 | 1 | RETURN HOSE 3/8" OD x 10.0" | 6-2310 |
| 39 | 1 | PLUMBING PLUG 3/8"NPT | 6-2161 |
| 40 | 2 | ELECTRIC REDUCER WASHER | 6-2311 |
| 41 | 1 | WIRING ASSEMBLY AC 1PH FENNER | 6-2156 |
| 42 | 1 | LABEL INSTALLATION AUTOHOIST | 6-2136 |
| 43 | 1 | BREATHER CAP & BLADDER | 6-1376 |

11. AVAILABLE ACCESSORIES

| 3000 lb max capacity each | Poly Pad Adapter (set of 4) | 2500 lb max capacity each | High Lift Truck Extension Mid-Rise / 2- Post (set of 2) |
|---------------------------|--|---------------------------|--|
| | Frame Contact Lift Blocks (set of 4) | | |

Accessories may not be available for all models. Contact supplier for availability and part numbers.