

HOFMANN



INSTALLATION and OPERATION MANUAL



WHEELTRON

BLA9144 / BLA9172

(9000LB.)

BLA12172

(12,000 LB)

**READ and SAVE THIS
INSTRUCTION MANUAL**

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USA



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CANADA



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1. SAFETY INSTRUCTIONS

When using this lift, basic safety precautions should always be followed, including the following:

1. Read all instructions in this manual and on the lift.
2. Inspect lift daily. Do not operate if it malfunctions or problems have been encountered.
3. Never attempt to overload the lift. The manufacturer's rated capacity is shown on the identification label on the power side column. Do not override the operating controls or the safety devices.
4. Only trained and authorized personnel should operate the lift. Do not allow customers or bystanders to operate the lift or be in the lift area.
5. **Caution! Never work under the lift unless the mechanical safety locks are engaged.**
6. Always keep the lift area free of obstruction and debris. Grease and oil spills should always be cleaned up immediately.
7. Never raise vehicle with passengers inside.
8. Before lowering check area for any obstructions.
9. To protect against the risk of fire, do not operate lift in the vicinity of open containers of flammable liquids.
10. Adequate ventilation should be provided when working on internal combustion engines.

SAVE THESE INSTRUCTIONS

2. SPECIFICATIONS

Maximum Capacity:

Overall Width:

Width Between Runways:

Overall Length (144" W/B):

Overall Length (155" W/B):

Overall Length (172" W/B):

Max. Raised Height:

Min. Lowered Height:

Lifting Time:

Power Requirements:

Shipping Weight (144" W/B):

Shipping Weight (172" W/B):

| | | | |
|-----------------|---------|-----------------|---------|
| 9000 lbs. | 4100 kg | 12000 lbs. | 5450 kg |
| 84" | 2134 mm | 92" | 2337 mm |
| 36" | 914 mm | 36" | 914 mm |
| 234" | 5944mm | N/A | N/A |
| 245" | 6300mm | N/A | N/A |
| 264" | 6706 mm | 264" | 6706 mm |
| 72" | 1829 mm | 72" | 1829 mm |
| 8 3/4" | 222 mm | 8 3/4" | 222 mm |
| 60 Sec. | | 60 Sec. | |
| 230V, 1Ph, 60Hz | | 230V, 1Ph, 60Hz | |
| 3450 lbs. | 1565 kg | N/A | N/A |
| 3560 lbs. | 1615 kg | 4980 lbs. | 1615 kg |

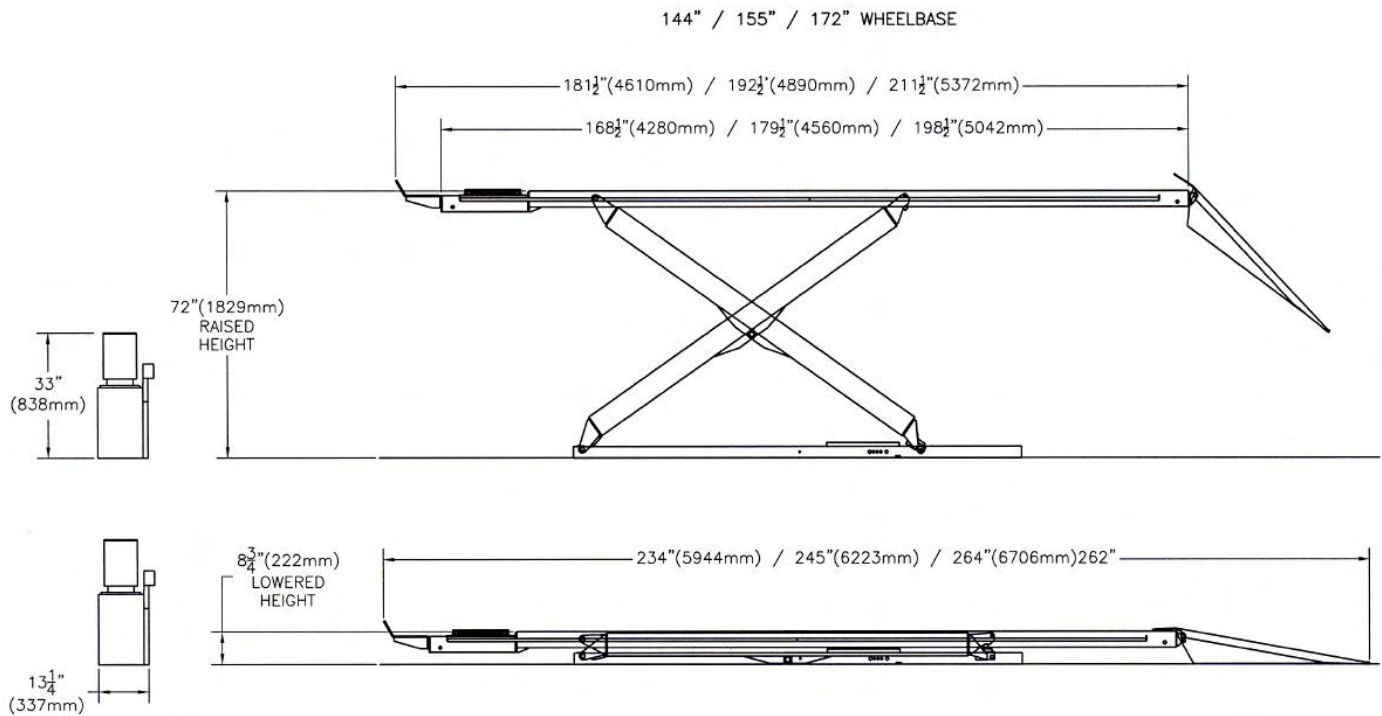


Figure 1 -Lift Dimensions

3. CONTENTS

The complete lift is contained in two (2) packages:

1. The **main structural components** are pre-assembled and packaged one on top of the other.
2. The remaining parts are packed in an **accessory box**.

Main Structural Components includes:

1pc. - Left Side Main Frame Assembly; Runway, Scissors and Base Frame

1pc. - Right Side Main Frame Assembly; Runway, Scissors and Base Frame

Note: Hydraulic lines in base frames have been factory installed

4. TOOLS REQUIRED FOR INSTALLATION

- * Rotary Hammer Drill or Similar, ¼" and ½" Concrete Drill Bits
- * 4' Level
- * SAE Wrenches and Sockets
- * Hammer
- * Pry Bar
- * Chalk Line
- * Tape Measure
- * Side Cutters
- * Screw Drivers
- * Hydraulic Fluid ISO 32 (10 weight hydraulic oil) - (20 liters / 5.3Gal.)

5. INSTALLATION INSTRUCTIONS

When the lift arrives on site, please read the owner's manual completely. Check the contents to make sure no parts are missing before starting installation. Gather all the tools listed and make sure the installation instructions are fully understood before commencing with the installation.

IMPORTANT: It is the user's responsibility to provide a satisfactory installation area for the lift. Lifts should only be installed on level concrete floors with a minimum thickness of five (5) inches or 130 mm. Concrete must have a minimum strength of 4000 psi or 30 MPa and should be aged thirty (30) days prior to installation. Please consult the architect, contractor or engineer if doubt exists as to the strength and feasibility of the floor to enable proper lift installation and operation.

It is the user's responsibility to provide all wiring for electrical hook-up prior to installation and to insure that the electrical installation conforms to local building codes. Where required, it is the user's responsibility to provide an electrical isolation switch located in close proximity to the lift that will enable emergency stop capability and isolate electrical power from the lift for any servicing requirements.

5.1 BAY LAYOUT

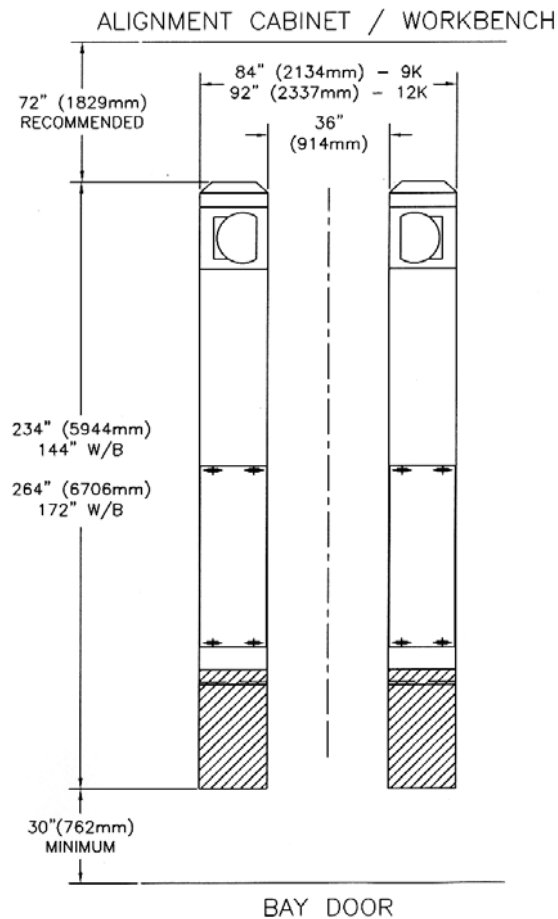


Figure 2 - Typical Bay Layout (Surface Mount)

IMPORTANT: DO NOT UNBOLT SHIPPING CLAMPS HOLDING EACH MAIN FRAME ASSEMBLY TOGETHER UNTIL INSTRUCTED TO DO SO.

1. After selecting the location best suited for your lift, draw a line parallel to the front of the lift, approximately 72" (1829mm) back from the cabinet/work bench area. This will be the approximate location of the front of the lift.

NOTE: Check the installation area for obstructions. (Overhead; light fixtures, heating ducts, ceiling, and In-ground; floor drains, electrical, etc.)

2. Mark on the floor an outline matching the dimensions listed.

| | |
|------------------------------|--|
| 144" (3658mm) W/B | Overall dimensions are 234" (5944mm) x 84" (2134mm). |
| 172" (4369mm) W/B 9K | Overall dimensions are 264" (6706mm) x 84" (2134mm). |
| 172" (4369mm) W/B 12K | Overall dimensions are 264" (6706mm) x 92" (2337mm). |

3. Draw a center line down the middle of the outline starting at the front of the lift location and ending at the rear approach ramps.

4. Draw two lines parallel to the center line 18" (457mm) 9,000 lb. / 20" (508mm) 12,000 lb., on either side to locate the inside of the baseframes.
5. Draw a line parallel to the front of the lift or pit (flushmount) and align the front of each base frame assembly onto this line.

144" (3658mm) W/B 39" (991mm) back from the front of the lift
172" (4369mm) W/B 49" (1321mm) back from the front of the lift

6. Check the floor in the outline for the highest point using a four (4) foot level. Mark this location, reference will be made to it later during the leveling procedure.

5.2 UNPACKING PROCEDURE

Cut and remove the metal banding straps that hold the accessory box (and sliding Jack Beams if so equipped) and place in a convenient location near the installation area.

Cut and remove the metal banding straps surrounding the Two Main Frame Assemblies. Position the Main Frame Assemblies in the location previously marked in the bay layout.

NOTE: To distinguish between the left and right Main Frame Assemblies, ensure that the jack beam rails should be facing each other. All measurements are to be taken from the front of the lift.

Check that the inside of the base frames are 18" (457mm) away from the center line at both the front and rear of each mainframe assembly and that the front of each base frame is on the line drawn in step 5 of the bay layout Section 5.1.

5.3 HYDRAULIC INSTALLATION

NOTE: When working with hydraulics it is important to keep all components clean. All hydraulic connections are 37 ½° JIC flares.

1. Select a position best suited for the power pack.
2. Remove the breather filler cap and fill with 20 liters/5.3Gal. of ISO 32 hydraulic fluid (10 weight).
3. Connect the two (2) 21' (6401mm) long hydraulic hoses to the hydraulic outlet ports on the valve assembly of the power pack using the two 90deg elbows (3/8" JIC-M, 3/8" JIC-F) located in the hardware kit. Refer to Figure 3.
4. Locate the opposite ends of the two (2) 21' (6401mm) long hydraulic hoses. Connect to the two inlet ports of the lift, the inlet ports are located on the left side of the Left Main Frame Assembly. Refer to Figure 3.
5. Connect one end of the center hydraulic line to the outlet side of the Left Main Frame Assembly and the other end to the inlet side of the Right Main Frame Assembly. Tighten the hydraulic line in place so that it runs along the floor giving it a low profile.

IMPORTANT: THE SHIPPING CLAMPS HOLDING EACH MAIN FRAME ASSEMBLY TOGETHER MUST BE UNBOLTED BEFORE CONNECTING ELECTRICAL POWER. THERE ARE TWO (2) CLAMPS ON EACH ASSEMBLY.

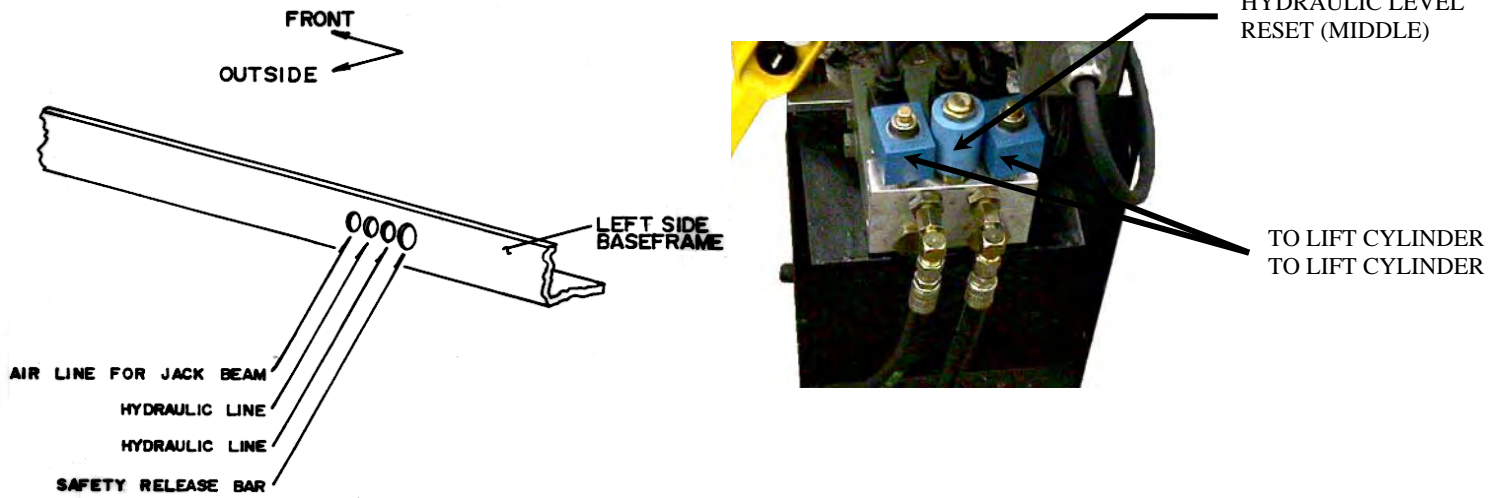
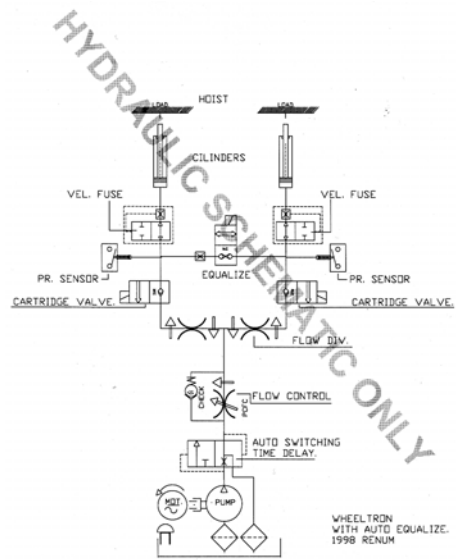


Figure 3 - Hydraulic Connections



Hydraulic Schematic

5.4 ELECTRICAL INSTALLATION

IMPORTANT: ALL FINAL ELECTRICAL CONNECTIONS SHOULD BE MADE BY A QUALIFIED ELECTRICIAN.

Please refer to Figure 4, the electrical diagram. Note: All electrical connections have been made and customer power supply can be connected using the 12" cable extending from the back of the contactor box.

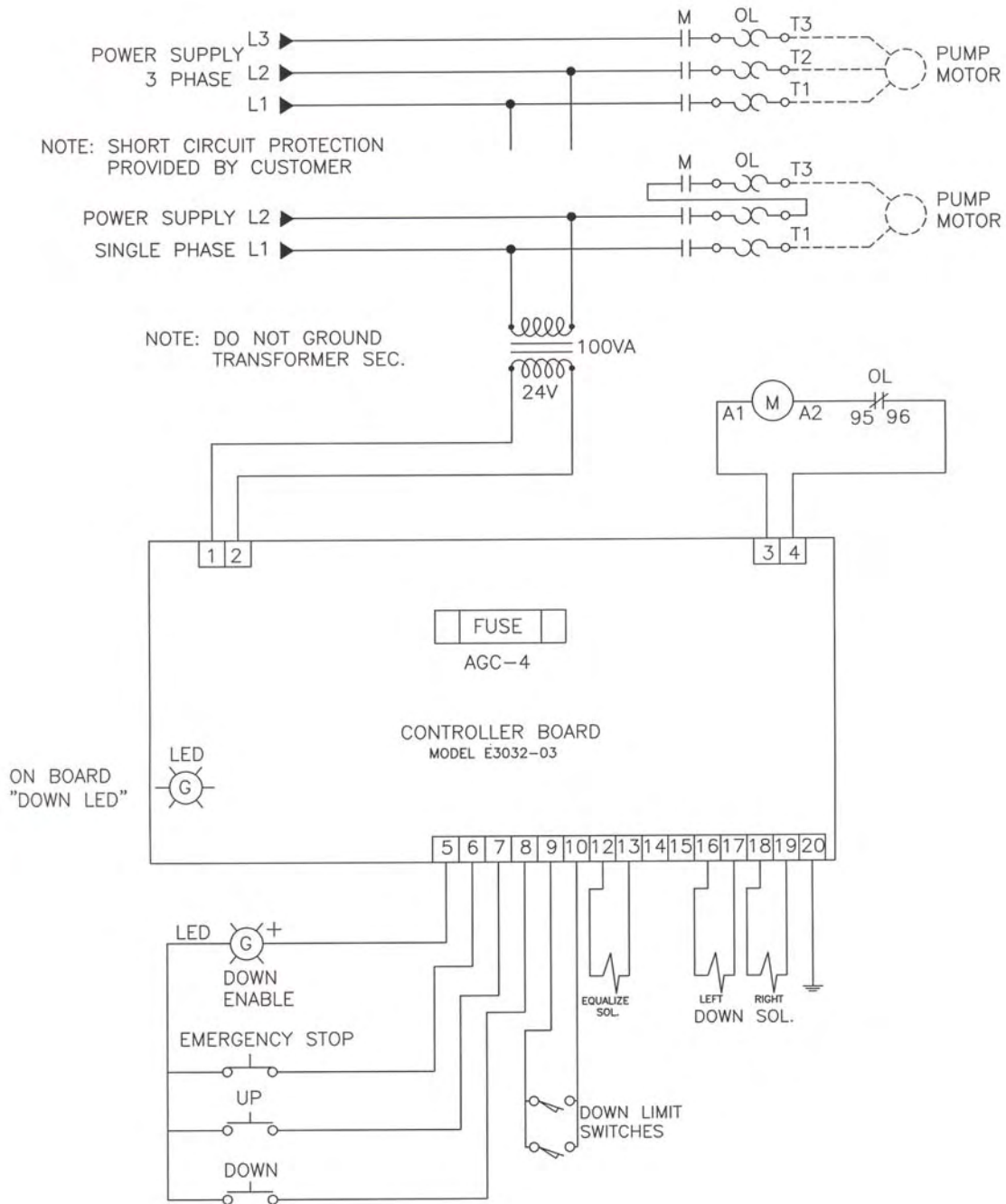


Figure 4 - Electrical Schematic; 220 Volt, 3Ph.

5.5 BLEEDING PROCEDURE

1. Once the main electrical power supply has been connected, turn the equalization adjustment fully clockwise. The equalization adjustment is located on the powerpack controller board, see Figure 4.
2. Press the up control button and raise the lift 10” (254mm) above the ground. If the LED does not illuminate, continue pressing the up button until the LED comes on.
3. Lower the lift to the ground and hold the down button until the LED light goes off. This will release air from the hydraulic system. Note: If the LED is not illuminated the lift will not lower – press the up button and raise the lift until the LED comes on. Once the LED is illuminated, the lift can be lowered.
4. Repeat these steps 3-4 times to completely bleed the system of air. Check the lift for hydraulic leaks at all connections. When complete, turn the equalization adjustment fully counter clockwise.
5. After bleeding, it is recommended that the filter assembly fitting (between the hydraulic hose and the powerpack – see Figure 3) be cleaned. Place the fitting on a workbench and use an air gun to blow through the filter in the opposite direction to flow from the lift.

5.6 AIR LINE INSTALLATION

1. Remove the air line fittings from the accessory box.
2. Raise the lift until the deck is at a suitable working height. Lower the lift until mechanical safety locks engage.
3. Assemble the fittings to the front of the right side deck as shown in Figure 5. Connect the 3/8” polytube from the inside of the deck to the fitting assembly.
4. Assemble the fittings to the rear of the right side deck as shown in Figure 5. Connect the 3/8” polytube from the inside of the deck to the fitting assembly.
5. Remove one recoil hose from the accessory box and connect it to the rear fitting assembly as shown in Figure 5. Run the recoil hose under the deck and connect the opposite end to the air line on the scissors using the 3/8”JIC-M x 1/4”NPT-F adapter from the hardware kit.
6. Connect the 21' (6401mm) long 3/8” braided hose (located in the accessory box) to the air inlet on the left baseframe.

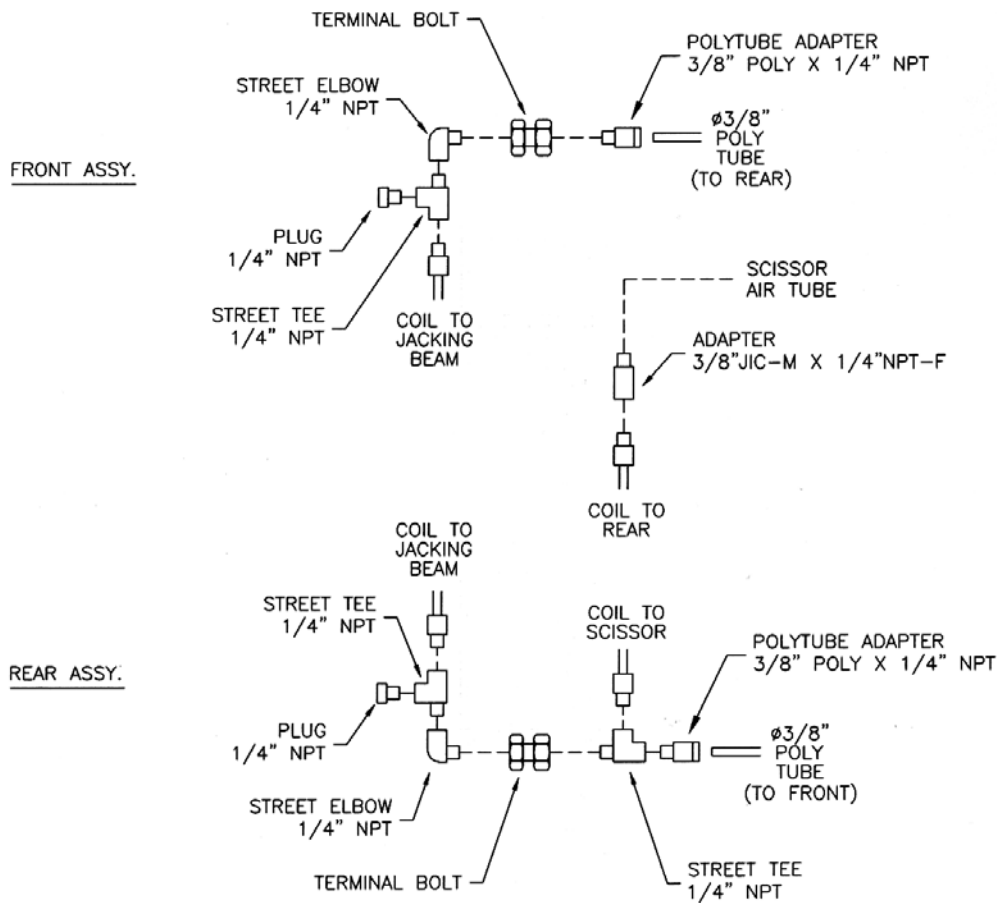


Figure 5 – Air Line Connections

5.7 MECHANICAL SAFETY INSTALLATION:

1. At this point, run the lift to full height and turn off the power supply to the power pack.
2. Slide each of the safety release rods through the holes closest to the rear of each baseframe.

NOTE: Install the rod with the flat section in the middle of the rod on top and pointing up toward the front of the deck when the slots on either end are parallel to the ground. Refer to Figure 6.

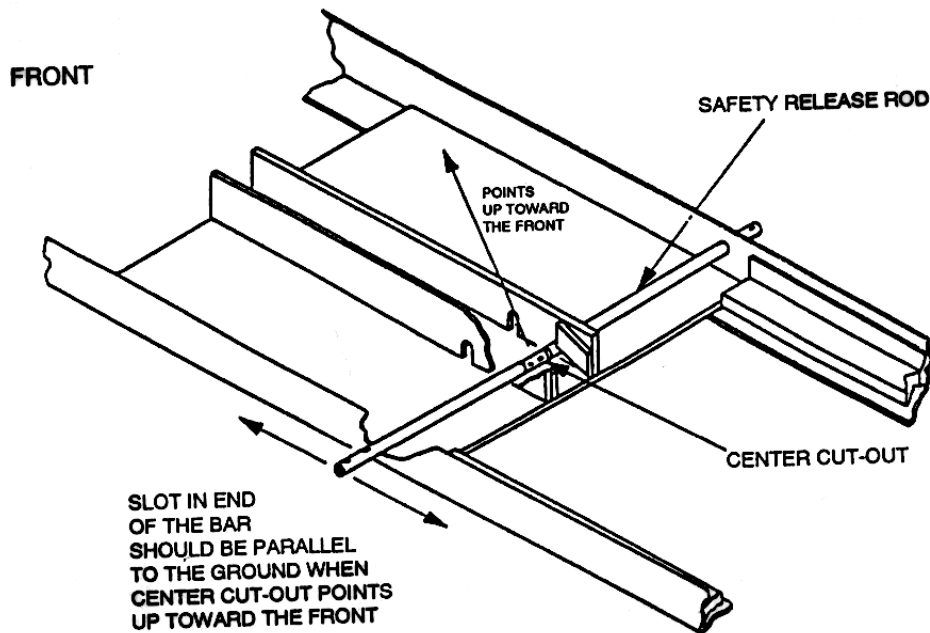


Figure 6 - Safety release rod location.

3. Install the rectangular safety release tab using two (1); 1/4" - 20UNC x 3/4"lg. cap screw and lock washers. The safety release tab bolts to the surface of the safety release rod located under the mechanical safety locks.
4. Install foot pedals on the outside of each safety release rod, using two (2); 1/4" - 20UNC x 1 1/4"LG. hex bolts, nuts and lockwashers for each pedal.
5. Install the foot pedal safety guards. The safety guards should be installed on each baseframe using the 1/4" - 20UNC x 3/4"LG. hex bolts and lockwashers provided.
6. Install the safety release connecting rod between the safety bars using 1/4" - 20UNC x 1 1/4" long hex bolt, nut and lockwasher, using one on each side.
7. Place the safety bar weldments back in their engaged position. **Turn power back on.**
8. Make sure there are no people, tools, or obstructions under the platforms before stepping on the safety pedal, then press down button on the control. Stop lowering at approximately 3 feet from the floor. Release the foot pedal and lower the lift down onto its safeties.
9. **FOR THOSE UNITS EQUIPPED WITH SLIDING JACK BEAM(S) NOW IS THE TIME TO INSTALL THE JACK(S).** Lower lift and consult instructions supplied with each Jacking Beam.
10. Turn on the shop air supply and check for leaks. The air supply line should have an operating pressure of 90-120psi (6-8bar).

5.8 LEVELING PROCEDURE

1. The highest point on the floor, noted from Section 5.1 step 6 is the point from which the base frame will be leveled from. Raise the lift to full height and, using a four (4) foot level across the base frames, verify again that this is the highest point.
2. Starting at the corner closest to the highest point, check along the length of the base frame edge with the four foot level and shim as required. **NOTE THE FIVE CRITICAL POSITIONS THAT SHIMS MUST BE PLACED ON EACH BASE FRAME OF EACH MAIN FRAME ASSEMBLY.** Refer to Figure 7.
3. Continue shimming across that base frame from side to side, and front to rear.
4. Once one frame is completely leveled, level the inside rails of the base frames to one another.
5. Now level the remaining outside half of the last base frame by placing the level across that unit and shimming as required.
6. A quick check across, along and between each base frame will ensure the leveling procedure was carried out successfully.

LEVELING EXAMPLE:

Assuming that the front right corner is the highest point level in the following order:

- Shim along side "A"
- Shim across from side "A" to side "B" (check along side "B" from front to back)

The Right Side base frame should now be leveled.

- Shim across from side "B" to side "C" (check along side "C" from front to back)
- Shim across from side "C" to side "D" (check along side "D" from front to back)
- Shim along side E & side F (locking Mechanism)

Both base frames should now be leveled from front to back and side to side.

NOTE: Base frame leveling should be performed as a reference before main leveling of the decks. One last check before anchoring is to make sure that there is 36" between the baseframes.

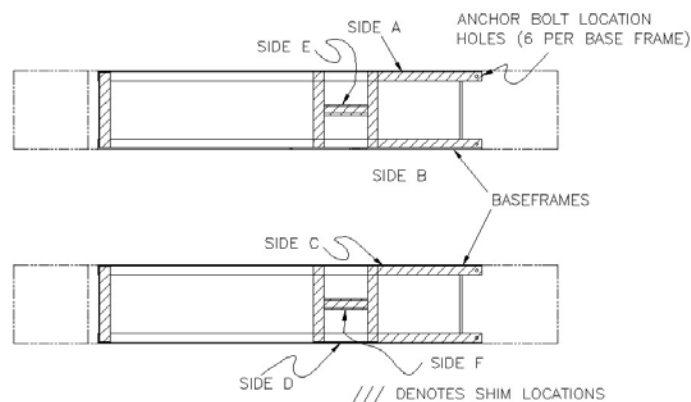


Figure 7 - Leveling Procedure Example

5.9 ANCHORING PROCEDURE:

NOTE: Check operation of lift (up/down) and movement of jack beams before anchoring the lift

1. Using a rotary hammer drill and a ½" concrete drill bit, drill through the floor in the six (6) anchor bolt locations on each of the base frames. Make sure that the ½" concrete drill is in good condition. Refer to Figure 8.
2. Insert the ½" x 4 ½" long wedge anchor bolts supplied, place a flat washer and nut on each anchor. Tighten securely.
3. Torque all anchor bolts to 55 ft. lbs.
4. With all anchor bolts torqued as specified operate the lift checking its full operation.

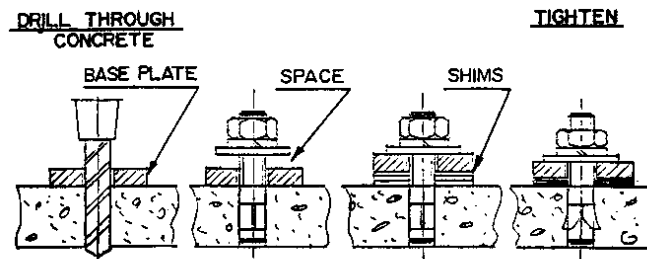


Figure 8 - Anchoring

5.10 INSTALLATION OF COVERS, WHEEL STOPS AND APPROACH RAMP:

1. Locate and install the center cover over the mechanical safety release connecting rod and center connecting hydraulic line. Install using the four (4) ¼" - 20 UNC x ¾" long hex head bolts, flat washers and lock washers.
2. Check to make sure that the safety release connecting rod does not bind during operation.
3. Locate and install protective line covers over all air and hydraulic supply lines.
4. Using a rotary hammer drill and a ¼" concrete drill bit, drill all line cover locations. Using the ¼" nail-in anchors supplied, fasten the line covers to the floor.
5. Locate and install the two (2) front wheel stops; one (1) to the front of each of the runways using the six (6) 1/2" - 13 UNC x 1 1/2" long hex head bolts, flat washers, and lock washers.
6. Install the approach ramps using ramp pins, washers, and cotter pins.

6. OPERATING INSTRUCTIONS

NOTE: In case of power failure, the manual override can be used to lower the lift. To operate the manual override, first remove red plastic tamper proof cap from each of the two solenoids connected to the hydraulic lines. Unscrew the center needle valves on each of these 2 solenoids simultaneously to the fully counterclockwise position. The lift will then lower to the ground (Note: a second person may be required to disengage the safeties).

6.1 RAISING THE LIFT

1. If the lift is equipped with Sliding Jack Beam(s) be sure that the Beam(s) are positioned at the front or mid travel of the lift, fully down, with the risers removed and stored. Never store Jack Beam(s) at the rear of the lift.
2. Be sure that the lift is fully lowered before attempting to load or unload a vehicle.
3. Position the vehicle on the lift ensuring the resulting load on each deck is distributed as evenly as possible.

NOTE: The vehicle is positioned correctly when the distance from the center of the tires to the inside edge of the runways is equal on both runways, for the front and rear tires.

4. Check that there are no obstructions above the lift that could damage the lift or vehicles.
5. Raise the lift by pressing the up button on the remote pendant control. Raise the lift up past the desired working height until the mechanical safety drops into position. Press the down button to lower the lift down onto both of the mechanical safeties. Note: If the LED is not illuminated the lift will not lower – press the up button and raise the lift until the LED comes on. Once the LED is illuminated, the lift can be lowered.
6. Continue depressing down button until L.E.D. shuts off. (To allow lift to equalize automatically)

NOTE: NEVER WORK UNDER A VEHICLE OR THE LIFT UNLESS IT IS POSITIONED ON BOTH MECHANICAL SAFETIES!

6.2 LOWERING THE LIFT

1. Check that there are no obstructions under the lift or vehicle. Be sure that the Sliding Jack Beams are fully lowered and positioned at the front or mid section of the lift.
2. Raise the lift by pressing the up button until the mechanical safety bars are off their stops, and the LED light illuminates. Stop raising.
3. Depress the safety release pedal to disengage the mechanical safety locking bars. Continue to hold the pedal while depressing the down button on the remote pendant control.
4. Continue lowering until the lift is approximately 34" (864mm) above the floor. Then release the mechanical safety release pedal, allowing the mechanical safety locking bars to be reset for their next use. Continue to depress the down button until the lift is completely lowered and LED light goes off for leveling of both runways.

NOTE: The operator must always keep their attention on the operation of the lift while raising or lowering.

5. Be sure that the lift is completely lowered before removing the vehicle from the lift.

7. RECOMMENDED MAINTENANCE

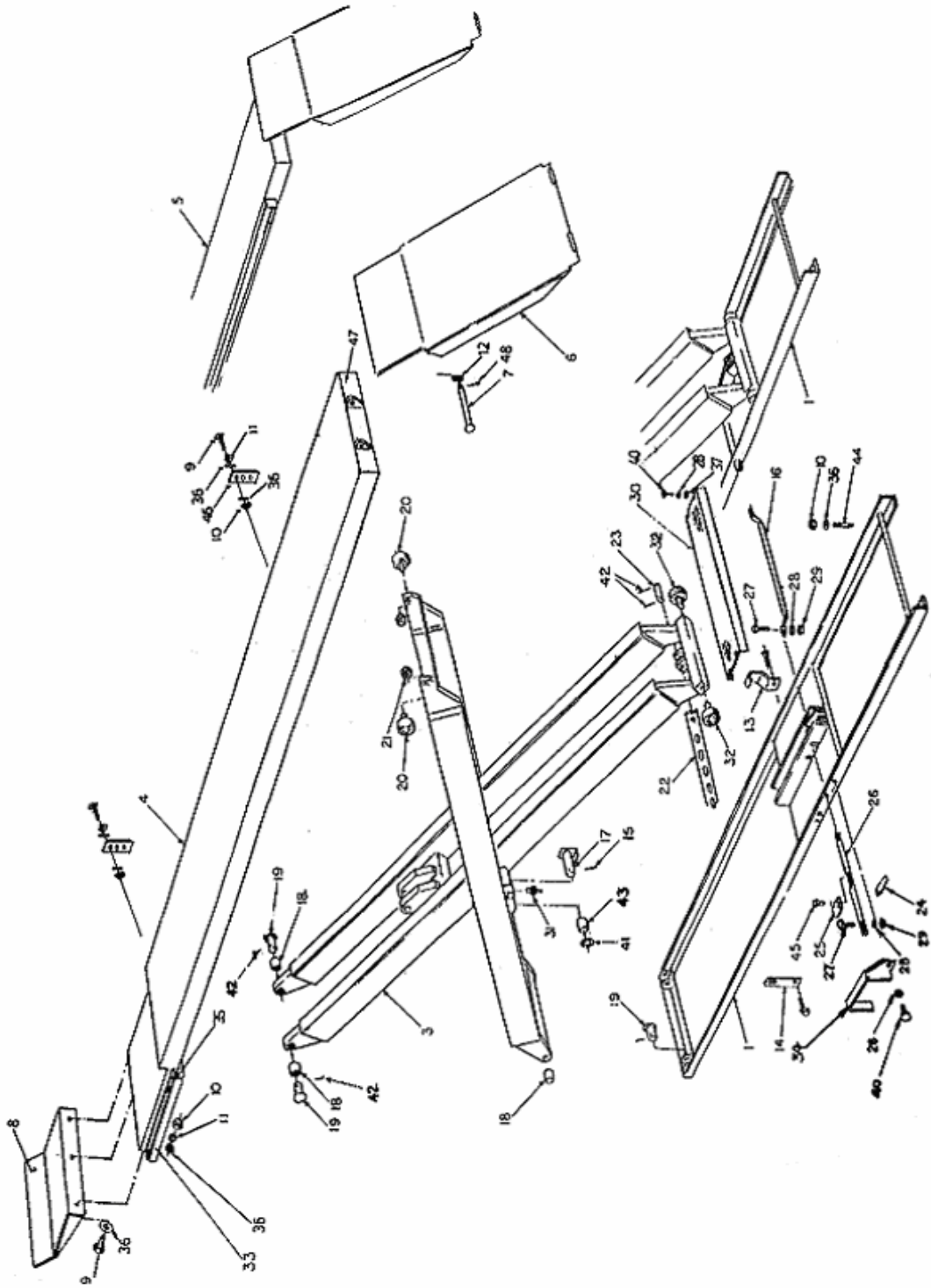
1. The lift should be greased at least once every two months. There are six (6) points on each lift that will take grease: four (4) on the scissors hinges and one on each of the two (2) hydraulic cylinder rod eyelet's.
2. The fluid level in the reservoir should be checked periodically. Be sure that the lift is fully lowered when checking. The hydraulic fluids should be changed once every five years. Use only ISO 32 hydraulic fluid.
3. The roller tracks should always be kept clean and free of debris. This area should be checked before any raising or lowering of the lift.
4. Inspect the operation of the lift daily. Raise and lower fully.
5. Inspect electrical and mechanical operations of all switches, electrical and mechanical.
6. Lifts equipped with full floating rear slip plates and front radius turning plates, require to be disassembled and cleaned once every 3 months. More frequently with lifts that are in areas with more exposure to sand and salt.

NOTE: Locking pins should always be installed on front and rear plates before attempting to drive a vehicle on or off the lift.

QUARTELY REAR SLIP PLATE MAINTENANCE

1. Remove top Slip Plate covers by first removing the four (4) shoulder bolts on each cover.
2. Remove polyethylene bearing cages insuring that all the delrin bearings remain in the cages. Additional delrin bearings may be purchased if required.
3. Clean runway surface and touch up any paint wear with a rust resistant paint. Allow paint to dry thoroughly.
4. To obtain optimum performance, the position of the slip plate bearing cage should be rotated every quarter to change the wear pattern. With the first quarter maintenance, flip the bearing cage over to the opposite side. With the second quarter maintenance, rotate the bearing cage end-to-end. With the third quarter maintenance, flip bearing cage over to the opposite side. Fourth quarter maintenance should see the bearing cage rotated back to the position it started in.
5. Quarterly maintenance will optimize performance and contribute to longer slip plate life.

8. PARTS MANUAL
WHEELTRON ASSEMBLY

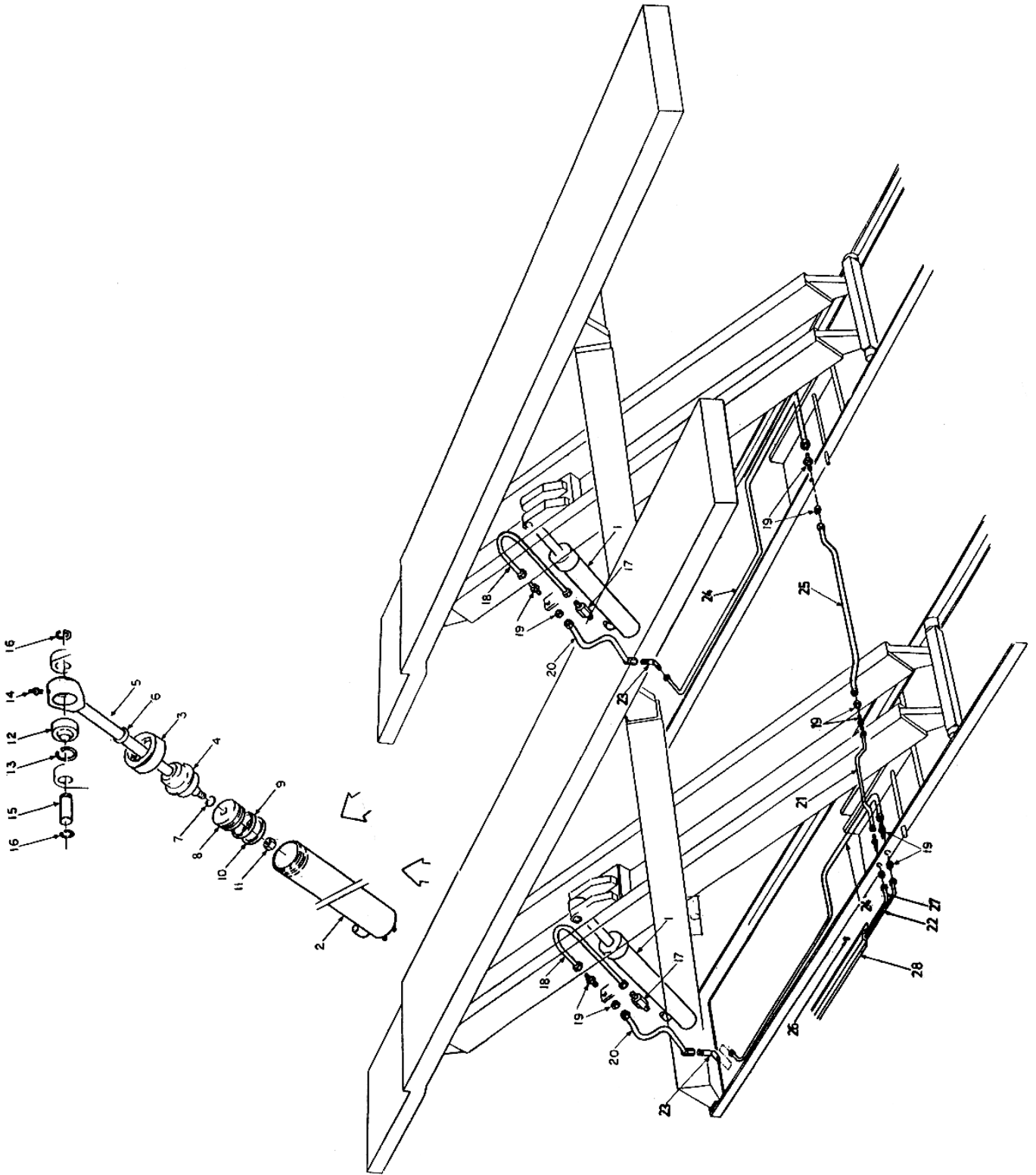


WHEELTRON - PART LIST

| ITEM | QTY. | DESCRIPTION | PART # |
|-------------|-------------|--|---------------|
| 1 | 2 | BASE FRAME WELDMENT, 9K | 4-0160 |
| | 2 | BASE FRAME WELDMENT, 12K | 4-0160 |
| 3 | 2 | SCISSOR WELDMENT | 4-0002 |
| 4 | 1 | 9K ALIGNMENT DECK, LEFT SIDE (144"W/B) | 4-0379 |
| | 1 | 9K ALIGNMENT DECK, LEFT SIDE (155"W/B) | 4-1071 |
| | 1 | 9K ALIGNMENT DECK, LEFT SIDE (172"W/B) | 4-0415 |
| | 1 | 12K ALIGNMENT DECK, LEFT SIDE (172"W/B) | 4-0158 |
| 5 | 1 | 9K ALIGNMENT DECK, RIGHT SIDE (144"W/B) | 4-0380 |
| | 1 | 9K ALIGNMENT DECK, RIGHT SIDE (155"W/B) | 4-1070 |
| | 1 | 9K ALIGNMENT DECK, RIGHT SIDE (172"W/B) | 4-0416 |
| | 1 | 12K ALIGNMENT DECK, RIGHT SIDE (172"W/B) | 4-0159 |
| 6 | 2 | RAMP ASSEMBLY W/ ROLLER | 3-0905 |
| 7 | 4 | RAMP PIN | 1-1887 |
| 8 | 2 | FRONT WHEEL STOP | 2-0851 |
| 9 | 6 | HEX BOLT, 1/2" - 13UNC X 1 1/2"LG. | 6-0291 |
| 10 | 18 | HEX NUT, 1/2" - 13UNC | 6-0035 |
| 11 | 6 | LOCK WASHER, 1/2" I.D. | 6-0059 |
| 12 | 4 | 3/4" I.D. FLAT WASHER | 6-0738 |
| 13 | 2 | SHIPPING BRACKET | 2-0112 |
| 14 | 2 | FLAT SHIPPING BRACKET | 2-0266 |
| 15 | 4 | SPRING PIN, 3/16" X 2" LG. | 6-0146 |
| 16 | 1 | SAFETY RELEASE CONNECTING ROD | 2-0071 |
| 17 | 4 | FULCRUM PIN, 1 1/4" DIA. | 1-0106 |
| 18 | 8 | BUSHING, 1" I.D. | 6-0085 |
| 19 | 8 | END HINGE PIN, 1" DIA. | 1-0107 |
| 20 | 4 | CAM FOLLOWER | 6-0637 |
| 21 | 4 | JAM NUT, 5/8" - 18UNF | 6-0040 |
| 22 | 2 | SAFETY BAR WELDMENT | 2-1683 |
| 23 | 2 | SAFETY PIN | 1-0547 |
| 24 | 2 | SAFETY PEDAL (9K) | 2-0194 |
| | 2 | SAFETY PEDAL (12) | 2-0742 |
| 25 | 2 | SAFETY RELEASE TAB | 1-2169 |
| 26 | 2 | SAFETY RELEASE ROD (9K) | 2-2133 |
| | 2 | SAFETY RELEASE ROD (12K) | 2-2134 |
| 27 | 6 | HEX BOLT, 1/4" - 20UNC X 1 1/4" LG. | 6-0027 |
| 28 | 14 | LOCK WASHER, 1/4" I.D. | 6-0056 |
| 29 | 6 | HEX NUT, 1/4" - 20UNC | 6-0032 |
| 30 | 1 | CENTER COVER (9K) | 3-0365 |
| | 1 | CENTER COVER (12K) | 3-0371 |
| 31 | 4 | GREASE NIPPLE | 6-0000 |
| 32 | 4 | CAM FOLLOWER | 6-0077 |
| 33 | 2 | PULL OUT STEP ASSEMBLY | 2-0362 |
| | | * NO PULL OUT STEP ASSEMBLY FOR 12K MODEL | |
| 34 | 2 | TOE GUARD (9K) | 1-0086 |
| | 2 | TOE GUARD (12K) | 1-0698 |
| 35 | 2 | SAFETY WALK TAPE | 1-0749 |
| 36 | 24 | PLAIN WASHER, 1/2" I.D. | 6-0063 |
| 37 | 4 | FLATWASHER, 1/4" I.D. | 6-0060 |
| 40 | 8 | HEX BOLT, 1/4" - 20UNC X 3/4" LG. | 6-0178 |

| ITEM | QTY. | DESCRIPTION | PART # |
|------|------|--|--------|
| 41 | 4 | WASHER | 1-0140 |
| 42 | 14 | COTTER PIN, 1/8" X 2"LG. | 6-0115 |
| 43 | 4 | BUSHING, 1 1/4" I.D. | 6-0084 |
| 44 | 12 | 9K WEDGE ANCHOR, 1/2" X 4 1/2" LG. | 6-0140 |
| | 16 | 12K WEDGE ANCHOR, 1/2" X 4 1/2" LG. | 6-0140 |
| 45 | 2 | FLAT HD., 1/4"-20UNC X 3/4" LG | 6-1086 |
| 46 | 2 | T/B BRACKET (12K) FOR AIR KIT, D.S. ONLY | 1-0636 |
| | 2 | HEX BOLT, 1/2" - 13UNC X 1 1/2" LG. | 6-0291 |
| | 2 | HEX NUT, 1/2" - 13UNC | 6-0035 |
| | 4 | PLAIN WASHER, 1/2" I.D. | 6-0063 |
| | 2 | LOCK WASHER, 1/2" I.D. | 6-0059 |
| 47 | 2 | ADAPTER PLATE (12K) | 1-2319 |
| | 6 | HEX BOLT, 1/2" - 13UNC X 1 1/2" LG. | 6-0291 |
| | 6 | HEX NUT, 1/2" - 13UNC | 6-0035 |
| | 12 | PLAIN WASHER, 1/2" I.D. | 6-0063 |
| | 6 | LOCK WASHER, 1/2" I.D. | 6-0059 |
| 48 | 4 | COTTER PIN 1/8" X 1 1/2" | 6-0978 |

WHEELTRON HYDRAULICS

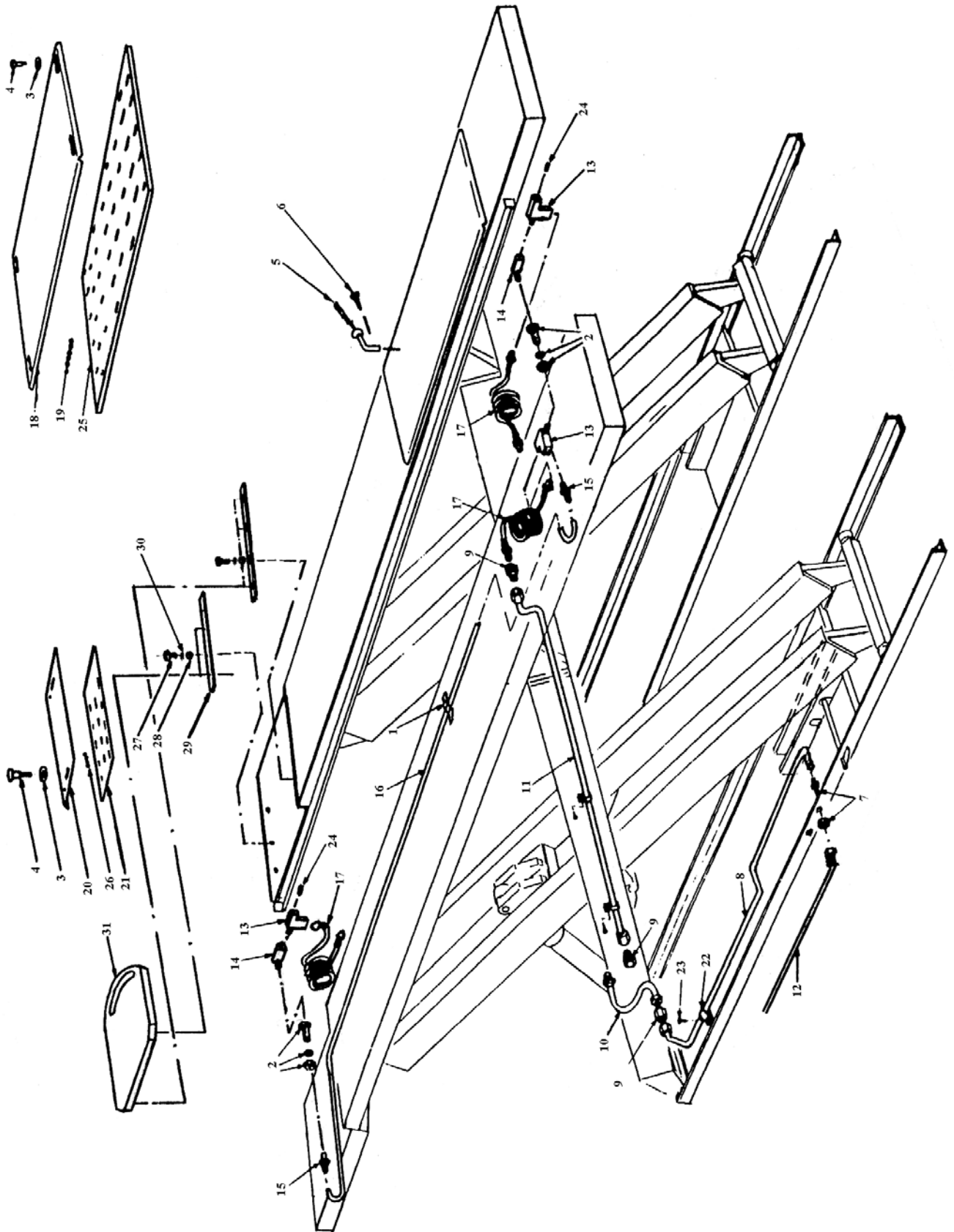


WHEELTRON - HYDRAULICS PART LIST

| ITEM | QTY. | DESCRIPTION | PART # |
|-------|------|---|--------|
| 1 | 2 | HYDRAULIC CYLINDER | 3-0000 |
| 1-2 | 1 | TUBE WELDMENT | 2-0000 |
| 1-3 | 1 | NUT GLAND | 1-0011 |
| 1-4 | 1 | GLAND | 1-0008 |
| 1-5 | 1 | ROD WELDMENT | 2-0001 |
| 1-6* | 1 | WIPER RING | 6-0001 |
| 1-7* | 1 | 'O' RING | 6-0002 |
| 1-8 | 1 | PISTON | 1-0007 |
| 1-9* | 1 | SEAL RING | 6-0003 |
| 1-10* | 1 | WEAR RING | 6-0004 |
| 1-11 | 1 | NYLON INSERT LOCK NUT, 7/8"-14UNF | 6-0005 |
| 1-12 | 1 | BEARING | 6-0007 |
| 1-13 | 1 | RETAINING RING | 6-0070 |
| 1-14 | 1 | GREASE NIPPLE | 6-0000 |
| 15 | 2 | PIN | 1-0029 |
| 16 | 4 | RETAINING RING | 6-0340 |
| 17 | 2 | VELOCITY FUSE | 6-0422 |
| 18 | 2 | TUBE ASSEMBLY, CYLINDER | 1-0093 |
| 19 | 6 | BULKHEAD, CONNECTOR 3/8"JIC C/W JAM NUT | 6-0013 |
| 20 | 2 | HOSE ASSEMBLY | 2-2136 |
| 21 | 1 | TUBE ASSEMBLY | 2-0848 |
| 22 | 1 | HYDRAULIC HOSE ASSEMBLY | 2-2050 |
| 23 | 2 | BULKHEAD, 90° ELBOW 3/8"JIC M C/W JAM NUT | 6-0012 |
| 24 | 2 | TUBE ASSEMBLY | 2-0849 |
| 25 | 1 | TUBE ASSEMBLY (9K) | 2-0065 |
| | 1 | TUBE ASSEMBLY (12K) | 2-0519 |
| 26 | 20 | CONCRETE NAIL, 1/4" x 1" | 6-0141 |
| 27 | 1 | HYDRAULIC HOSE ASSEMBLY | 2-1049 |
| 28 | 5 | LINE COVER | 2-1104 |

*HYDRAULIC CYLINDER SEAL KIT PART # 0-0007

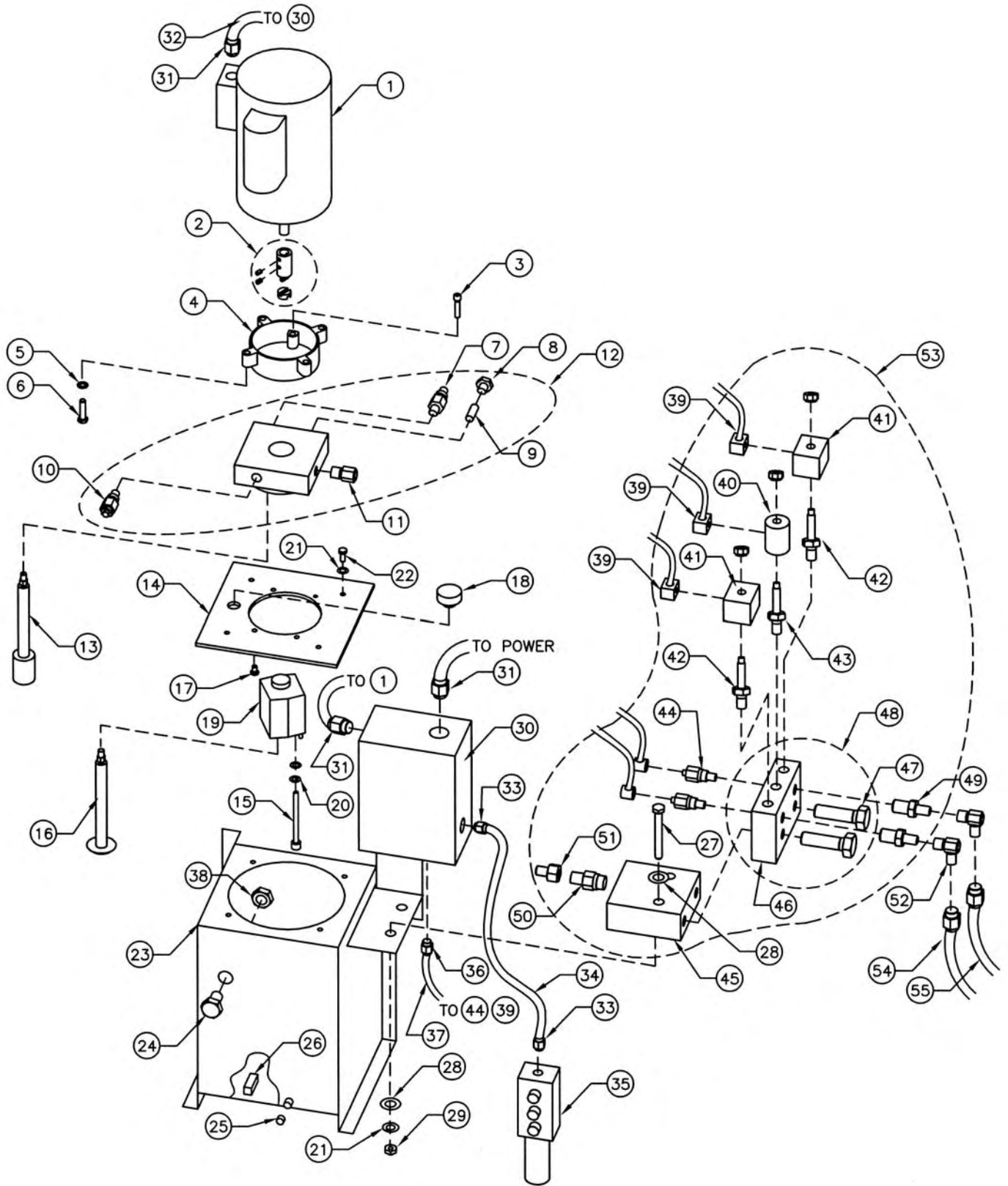
WHEELTRON OPTIONS



WHEELTRON - OPTIONS PART LIST

| ITEM | QTY. | DESCRIPTION | PART # |
|------|-------------|--|--------|
| 1 | 5 | FRAME CLIP | 6-0500 |
| 2 | 2 | TERMINAL BOLT, 3/4"-16m W/1/4 NPT F | 6-0167 |
| 3 | 12 | FLAT WASHER | 6-0426 |
| 4 | 12 | SHOULDER BOLT, 3/8" X 5/8"LG. | 6-0069 |
| 5 | 8 | LOCKING PIN ASSEMBLY | 2-2184 |
| 6 | 8 | SELF TAP SCREW #10 X 1/2"LG. | 6-0505 |
| 7 | 1 | BULKHEAD, CONNECTOR 3/8"JIC C/W JAM NUT | 6-0013 |
| 8 | 1 | TUBE ASSEMBLY | 3-0017 |
| 9 | 3 | ADAPTER, 3/8"JIC M TO 1/4"NPT F | 6-0118 |
| 10 | 1 | HOSE ASSEMBLY | 1-0119 |
| 11 | 1 | TUBE ASSEMBLY | 2-0062 |
| 12 | 1 | 3/8"DIA. PVC BRAIDED HOSE, 22'LG. (C/W FITTINGS) | 6-1345 |
| 13 | 3 | STREET TEE 1/4"NPT | 6-0014 |
| 14 | 2 | STREET ELBOW | 6-0015 |
| 15 | 2 | POLYTUBE STRAIGHT ADAPTER, 3/8" X 1/4"NPT | 6-0710 |
| 16 | 1 | HOSE 144"W/B | 1-0120 |
| 17 | 3 | 12' COILED HOSE | 6-0337 |
| 18 | 2 | REAR SLIP PLATE WELDMENT | 3-0197 |
| 19 | 1 SET (225) | BALL BEARING, 1/4"DIA. | 6-0829 |
| 20 | 2 | FRONT POSITIONING PLATE WELDMENT | 2-0841 |
| 21 | 2 | FRONT BEARING CAGE | 1-1070 |
| 22 | 4 | TUBE CLAMP | 6-0170 |
| 23 | 4 | SELF TAP SCREW, #10 X 3/8"LG. | 6-0169 |
| 24 | 2 | PLUG, 1/4"NPT | 6-0282 |
| 25 | 2 | REAR BEARING CAGE | 3-0196 |
| 26 | 1 SET (70) | BALL BEARING, 1/4" DIA. | 6-0829 |
| 27 | 16 | HEX HD. BOLT, 1/4"-20UNC X 3/4"LG. | 6-0178 |
| 28 | 16 | FLATWASHER, 1/4" I.D. x 3/4"OD, PLATED | 6-0060 |
| 29 | 4 | RETAINING BAR | 2-1391 |
| 30 | 16 | LOCKWASHER, 1/4"DIA. | 6-0056 |
| 31 | 2 | WHEELTRON TURNPLATE | 4-0375 |

9,000 LB WHEELTRON POWER PACK

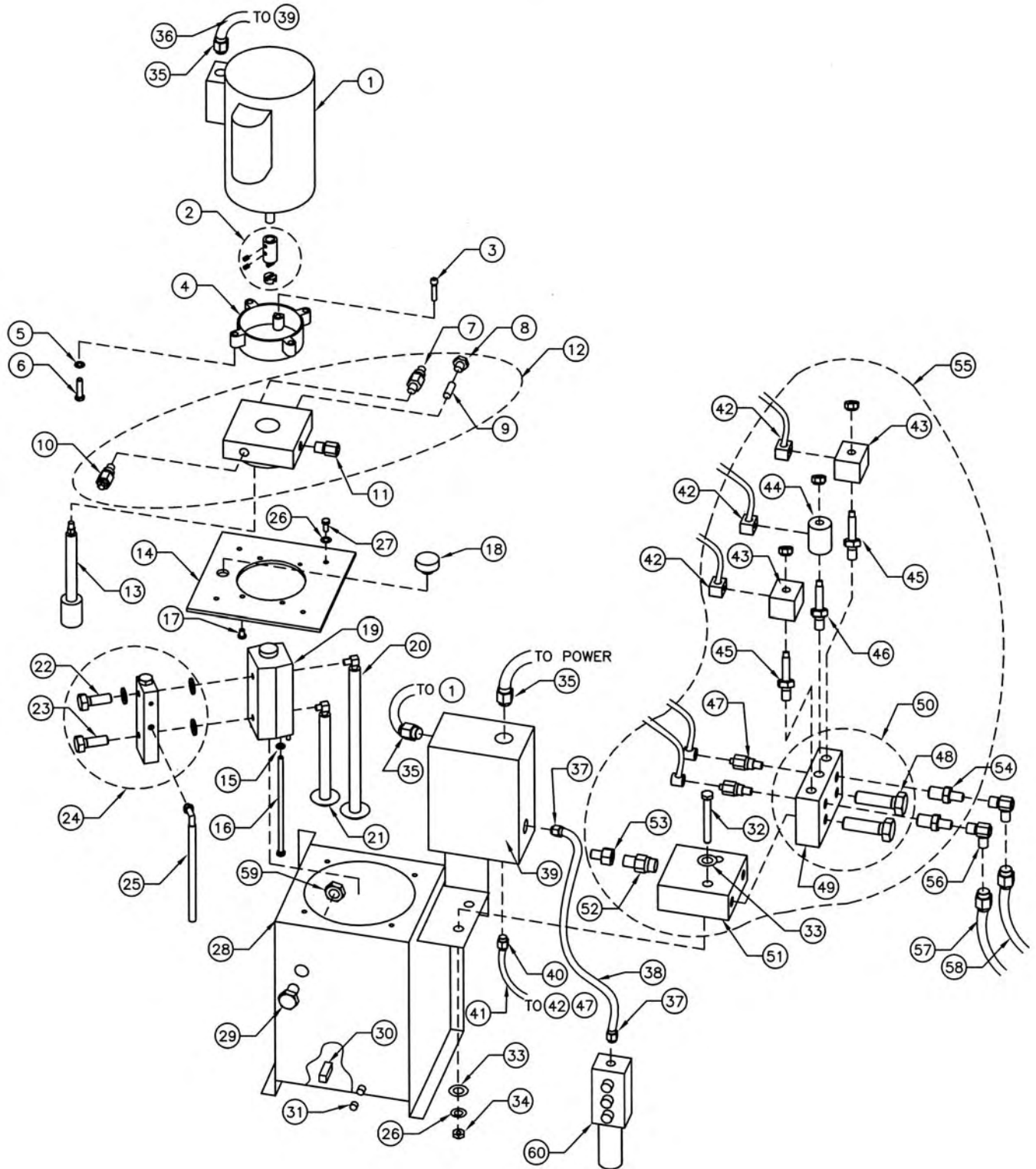


9,000 LB WHEELTRON POWER PACK - PARTS LIST

| ITEM NO. | QTY. | DESCRIPTION | PART NO. |
|----------|------|---|----------|
| 1A | 1 | MOTOR, 220V, 1 PHASE | 6-0087 |
| 1B | 1 | MOTOR, 220V, 3 PHASE | 6-0446 |
| 1C | 1 | MOTOR, 575V, 3 PHASE | 6-0447 |
| 2 | 1 | MOTOR COUPLER | 6-2537 |
| 3 | 2 | CAP SCREW, SOCKETHEAD, 5/16"-18UNC x 1 1/2" LG | 6-2534 |
| 4 | 1 | BELLHOUSING | 6-2507 |
| 5 | 4 | LOCKWASHER, INTERNAL TOOTH, 3/8" | 6-2547 |
| 6 | 4 | CAP SCREW, HEX HEAD, 3/8"-16UNC x 1 1/2" LG | 6-2558 |
| 7 | 1 | AUTO SWITCHING VALVE | 6-2273 |
| 8 | 1 | PLUG, 3/8" (INCLUDES "O"-RING) | 6-2519 |
| 9 | 1 | FLOW CONTROL , 1.5 – 2 GPM | 6-2272 |
| 10 | 1 | RELIEF VALVE (4100 PSI) | 6-2264 |
| 11 | 1 | SWIVEL ADAPTER (1/4" NPT MALE TO 3/8" JIC | 6-2270 |
| 12 | 1 | MAIN BODY ASSEMBLY (INCLUDES 7,8,9,10,11) | 6-2545 |
| 13 | 1 | RETURN FILTER ASSEMBLY | 6-2546 |
| 14 | 1 | MOUNTING PLATE | 6-2521 |
| 15 | 2 | CAP SCREW, SOCKET HEAD, 5/16"-18UNC x 3 1/4" LG | 6-2536 |
| 16 | 1 | INLET STRAINER ASSEMBLY | 6-2535 |
| 17 | 4 | CAP SCREW, BUTTIONHEAD, 5/16"-18UNC x 1/2" LG | 6-2524 |
| 18 | 1 | FILLER / BREATHER CAP | 6-2523 |
| 19 | 1 | PUMP | 6-2268 |
| 20 | 4 | LOCKWASHER, 5/16" | 6-0674 |
| 21 | 4 | LOCK WASHER, 1/4" | 6-0056 |
| 22 | 4 | CAP SCREW, HEX HEAD, 1/4"-20UNC x 3/4" LG | 6-0178 |
| 23 | 1 | OIL RESERVOIR | 4-0740 |
| 24 | 1 | OIL LEVEL SIGHT PLUG | 6-0517 |
| 25 | 1 | PLUG, SOCKETHEAD, 3/8" NPT | 6-0102 |
| 26 | 1 | MAGNET | 6-0405 |
| 27 | 2 | CAP SCREW, HEX HEAD, 1/4"-20 UNC x 2 3/4" LG | 6-0648 |
| 28 | 4 | FLAT WASHER, 1/4" | 6-0060 |
| 29 | 4 | NUT, HEX, 1/4"-20UNC | 6-0032 |
| 30A | 1 | CONTACTOR ASSEMBLY, 220V, 1PH INCLUDES: | |
| | 1 | PRINTED CIRCUIT BOARD | 6-2125 |
| | 2 | FUSE 2A 600V | 6-2178 |
| | 1 | CONTACTOR BOX, 1 PH, 24V COIL | 6-2148 |
| | 1 | TRANSFORMER, 220V | 6-2126 |
| 30B | 1 | CONTACTOR ASSEMBLY, 220V, 3 PHASE INCLUDES: | |
| | 1 | PRINTED CIRCUIT BOARD | 6-2125 |
| | 2 | FUSE 2A 600V | 6-2178 |
| | 1 | CONTACTOR BOX, 3 PH, 24V COIL | 6-2120 |
| | 1 | TRANSFORMER, 220V | 6-2126 |
| | 1 | THERMAL OVERLOAD, 6 – 9.2A | 6-2176 |

| | | | |
|---------|-------|---|--------|
| 30C | 1 | CONTACTOR ASSEMBLY, 460V, 3 PHASE INCLUDES: | |
| | 1 | PRINTED CIRCUIT BOARD | 6-2125 |
| | 2 | FUSE 2A 600V | 6-2178 |
| | 1 | CONTACTOR BOX, 3 PH, 24V COIL | 6-2120 |
| | 1 | TRANSFORMER, 460V | 6-2171 |
| | 1 | THERMAL OVERLOAD, 2.7 – 4.2A | 6-2175 |
| 30D | 1 | CONTACTOR ASSEMBLY, 575V, 3 PHASE INCLUDES: | |
| | 1 | PRINTED CIRCUIT BOARD | 6-2125 |
| | 2 | FUSE 2A 600V | 6-2178 |
| | 1 | CONTACTOR BOX, 3 PH, 24V COIL | 6-2120 |
| | 1 | TRANSFORMER, 575V | 6-2147 |
| | 1 | THERMAL OVERLOAD, 1.8 – 2.8A | 6-2174 |
| 31A | 3 | ½” STRAIN RELIEF CONNECTOR (1 PHASE) | 6-1370 |
| 31B | 3 | ½” STRAIN RELIEF CONNECTOR (3 PHASE) | 6-0094 |
| 32A | 1 | MOTOR CABLE (1 PHASE) | 1-0104 |
| 32B | 1 | MOTOR CABLE (3 PHASE) | 1-1824 |
| 33 | 1 | 3/8” STRAIN RELIEF CONNECTOR | 6-0093 |
| 34 | 1 | REMOTE CONTROL CABLE | 6-1989 |
| 35 | 1 | REMOTE HAND CONTROL, 2 BUTTON W/ LED | 6-2038 |
| 36 | 5 | ¼” STRAIN RELIEF CONNECTOR | 6-0092 |
| 37 | 15 FT | COIL / PRESSURE SWITCH CABLE | 8-0306 |
| 38 | 5 | ½” CONDUIT LOCKNUT | 6-1610 |
| 39 | 3 | DIN CONNECTOR (24V) | 6-2236 |
| 40 | 1 | ROUND COIL (24V) | 6-2114 |
| 41 | 2 | SQUARE COIL (24V) | 6-2128 |
| 42 | 2 | SPOOL VALVE (C/W MANUAL OVERRIDE) | 6-2129 |
| 43 | 1 | SPOOL VALVE (RESQUARE) | 6-1364 |
| 44 | 2 | PRESSURE SWITCH (INCLUDES BONDED SEAL) | 6-2548 |
| 45 | 1 | FLOW DIVIDER | 6-2549 |
| 46 | 1 | MANIFOLD | 6-2551 |
| 47 | 2 | BANJO BOLT (INCLUDES BONDED SEAL) | 6-2550 |
| 48 | 1 | MANIFOLD ASSEMBLY (INCLUDES 46-47) | 6-2552 |
| 49 | 2 | FILTER FITTING (BSP 3/8” MALE TO 3/8” JIC MALE) | 6-2127 |
| 50 | 1 | FILTER FITTING (BSP ½” MALE TO 3/8” JIC MALE) | 6-2553 |
| 51 | 1 | ADAPTER (3/8” JIC MALE TO 3/8” JIC FEMALE W/ | 6-2559 |
| 52 | 2 | 90° ELBOW (3/8” JIC MALE TO 3/8” JIC FEMALE | 6-0813 |
| 53 | 1 | FLOW DIVIDER ASSEMBLY (INCLUDES 39 TO 51) | 6-2315 |
| 54 | 1 | DRIVER SIDE HYDRAULIC HOSE | 2-1049 |
| 55 | 1 | PASSENGER SIDE HYDRAULIC HOSE | 2-2050 |
| ***NOTE | | PUMP ASSEMBLY (INCLUDES 2 TO 20) | 6-2110 |
| | | COMPLETE POWERPACK ASSEMBLY, 220V, 1 PHASE | 0-0722 |
| | | COMPLETE POWERPACK ASSEMBLY, 220V, 3 PHASE | 0-0759 |
| | | COMPLETE POWERPACK ASSEMBLY, 460V, 3 PHASE | 0-0818 |
| | | COMPLETE POWERPACK ASSEMBLY, 575V, 3 PHASE | 0-0760 |

12,000 LB WHEELTRON POWER PACK



12,000 LB WHEELTRON POWER PACK - PARTS LIST

| ITEM NO. | QTY. | DESCRIPTION | PART NO. |
|----------|------|---|----------|
| 1A | 1 | MOTOR, 220V, 1 PHASE | 6-0087 |
| 1B | 1 | MOTOR, 220V, 3 PHASE | 6-0446 |
| 1C | 1 | MOTOR, 575V, 3 PHASE | 6-0447 |
| 2 | 1 | MOTOR COUPLER | 6-2537 |
| 3 | 2 | CAP SCREW, SOCKET HEAD, 5/16"-18UNC x 1 1/2" LG | 6-2534 |
| 4 | 1 | BELLHOUSING | 6-2507 |
| 5 | 4 | LOCKWASHER, INTERNAL TOOTH, 3/8" | 6-2547 |
| 6 | 4 | CAP SCREW, HEX HEAD, 3/8"-16UNC x 1 1/2" LG | 6-2558 |
| 7 | 1 | AUTO SWITCHING VALVE | 6-2273 |
| 8 | 1 | PLUG, 3/8" (INCLUDES "O"-RING) | 6-2519 |
| 9 | 1 | FLOW CONTROL , 1.5 – 2 GPM | 6-2272 |
| 10 | 1 | RELIEF VALVE (5400 PSI) | 6-2265 |
| 11 | 1 | SWIVEL ADAPTER (1/4" NPT MALE TO 3/8" JIC | 6-2270 |
| 12 | 1 | MAIN BODY ASSEMBLY (INCLUDES 7,8,9,10,11) | 6-2557 |
| 13 | 1 | RETURN FILTER ASSEMBLY | 6-2546 |
| 14 | 1 | MOUNTING PLATE | 6-2521 |
| 15 | 4 | LOCKWASHER, 5/16" | 6-0674 |
| 16 | 2 | CAP SCREW, HEX HEAD, 5/16"-18UNC x 6 1/2" LG | 6-2533 |
| 17 | 4 | CAP SCREW, BUTTIONHEAD, 5/16"-18UNC x 1/2" LG | 6-2524 |
| 18 | 1 | FILLER / BREATHER CAP | 6-2523 |
| 19 | 1 | TANDEM PUMP | 6-2527 |
| 20 | 1 | LONG INLET STRAINER ASSEMBLY | 6-2528 |
| 21 | 1 | SHORT INLET STRAINER ASSEMBLY | 6-2529 |
| 22 | 1 | BANJO BOLT (INCLUDES 2 WASHER SEALS) | 6-2525 |
| 23 | 1 | BANJO BOLT (INCLUDES 2 "O"-RINGS AND 1 | 6-2526 |
| 24 | 1 | UNLOADING MANIFOLD ASSEMBLY(INCLUDING | 6-2555 |
| 25 | 1 | RETURN TUBE ASSEMBLY | 6-2532 |
| 26 | 4 | LOCKWASHER, 1/4" | 6-0056 |
| 27 | 4 | CAP SCREW, HEX HEAD, 1/4"-20UNC x 3/4" LG | 6-0178 |
| 28 | 1 | OIL RESERVOIR | 4-0740 |
| 29 | 1 | OIL LEVEL SIGHT PLUG | 6-0517 |
| 30 | 1 | MAGNET | 6-0405 |
| 31 | 1 | PLUG, SOCKETHEAD, 3/8" NPT | 6-0102 |
| 32 | 2 | CAP SCREW, HEX HEAD, 1/4"-20UNC x 2 3/4" LG | 6-0648 |
| 33 | 4 | FLAT WASHER, 1/4" | 6-0060 |
| 34 | 4 | NUT, HEX, 1/4"-20UNC | 6-0032 |
| 35A | 3 | 1/2" STRAIN RELIEF CONNECTOR (1 PHASE) | 6-1370 |
| 35B | 3 | 1/2" STRAIN RELIEF CONNECTOR (3 PHASE) | 6-0094 |
| 36A | 1 | MOTOR CABLE (1 PHASE) | 1-0104 |
| 36B | 1 | MOTOR CABLE (3 PHASE) | 1-1824 |
| 37 | 1 | 3/8" STRAIN RELIEF CONNECTOR | 6-0093 |
| 38 | 1 | REMOTE CONTROL CABLE | 6-1989 |
| 39A | 1 | CONTACTOR ASSEMBLY, 220V, 1PH INCLUDES: | |
| | 1 | PRINTED CIRCUIT BOARD | 6-2125 |
| | 2 | FUSE 2A 600V | 6-2178 |
| | 1 | CONTACTOR BOX, 1 PH, 24V COIL | 6-2148 |
| | 1 | TRANSFORMER, 220V | 6-2126 |

| | | | |
|---------|---|---|--------|
| 39B | 1 | CONTACTOR ASSEMBLY, 220V, 3 PHASE INCLUDES: | |
| | 1 | PRINTED CIRCUIT BOARD | 6-2125 |
| | 2 | FUSE 2A 600V | 6-2178 |
| | 1 | CONTACTOR BOX, 3 PH, 24V COIL | 6-2120 |
| | 1 | TRANSFORMER, 220V | 6-2126 |
| | 1 | THERMAL OVERLOAD, 6 – 9.2A | 6-2176 |
| 39C | 1 | CONTACTOR ASSEMBLY, 460V, 3 PHASE INCLUDES: | |
| | 1 | PRINTED CIRCUIT BOARD | 6-2125 |
| | 2 | FUSE 2A 600V | 6-2178 |
| | 1 | CONTACTOR BOX, 3 PH, 24V COIL | 6-2120 |
| | 1 | TRANSFORMER, 460V | 6-2171 |
| | 1 | THERMAL OVERLOAD, 2.7 – 4.2A | 6-2175 |
| 39D | 1 | CONTACTOR ASSEMBLY, 575V, 3 PHASE INCLUDES: | |
| | 1 | PRINTED CIRCUIT BOARD | 6-2125 |
| | 2 | FUSE 2A 600V | 6-2178 |
| | 1 | CONTACTOR BOX, 3 PH, 24V COIL | 6-2120 |
| | 1 | TRANSFORMER, 575V | 6-2147 |
| | 1 | THERMAL OVERLOAD, 1.8 – 2.8A | 6-2174 |
| 40 | 5 | ¼” STRAIN RELIEF CONNECTOR | 6-0092 |
| 41 | 5 | COIL / PRESSURE SWITCH CABLE | 1-0105 |
| 42 | 3 | DIN CONNECTOR (24V) | 6-2236 |
| 43 | 2 | SQUARE COIL (24V) | 6-2128 |
| 44 | 1 | ROUND COIL (24V) | 6-2114 |
| 45 | 2 | SPOOL VALVE (C/W MANUAL OVERRIDE) | 6-2129 |
| 46 | 1 | SPOOL VALVE (RESQUARE) | 6-1364 |
| 47 | 2 | PRESSURE SWITCH (INCLUDES BONDED SEAL) | 6-2548 |
| 48 | 2 | BANJO BOLT (INCLUDES BONDED SEAL) | 6-2550 |
| 49 | 1 | MANIFOLD | 6-2551 |
| 50 | 1 | MANIFOLD ASSEMBLY (INCLUDES 48-49) | 6-2552 |
| 51 | 1 | FLOW DIVIDER | 6-2549 |
| 52 | 1 | FILTER FITTING (BSP ½” MALE TO 3/8” JIC MALE) | 6-2553 |
| 53 | 1 | ADAPTER (3/8” JIC MALE TO 3/8” JIC FEMALE) | 6-2559 |
| 54 | 2 | FILTER FITTING (BSP 3/8” MALE TO 3/8” JIC MALE) | 6-2127 |
| 55 | 1 | FLOW DIVIDER ASSEMBLY (INCLUDES 42 TO 54) | 6-2315 |
| 56 | 2 | 90° ELBOW (3/8” JIC MALE TO 3/8” JIC FEMALE) | 6-0813 |
| 57 | 1 | DRIVER SIDE HYDRAULIC HOSE | 2-1049 |
| 58 | 1 | PASSENGER SIDE HYDRAULIC HOSE | 2-2050 |
| 59 | 5 | ½” CONDUIT LOCKNUT | 6-1610 |
| 60 | 1 | REMOTE HAND CONTROL, 2 BUTTON W/ LED | 6-2038 |
| ***NOTE | | PUMP ASSEMBLY (INCLUDES 2 TO 25) | 6-2262 |
| | | COMPLETE POWERPACK ASSEMBLY 220V, 1 PHASE | 0-0768 |
| | | COMPLETE POWERPACK ASSEMBLY 220V, 3 PHASE | 0-0769 |
| | | COMPLETE POWERPACK ASSEMBLY 460V, 3 PHASE | 0-0819 |
| | | COMPLETE POWERPACK ASSEMBLY 575V, 3 PHASE | 0-0770 |

