

OPERATOR'S MANUAL

650296

INCLUDING: OPERATION, INSTALLATION & MAINTENANCE

RELEASED: 6-28-95
(REV. A) IPP

ALSO INCLUDE MANUALS: 650891-X PUMP, 651616-X TWO POST LIFT/RAM & 651730 AIR MANIFOLD

8" AIR MOTOR
44:1 RATIO
6" STROKE

650296
CARBON STEEL
PUMP SYSTEM



READ THIS MANUAL CAREFULLY BEFORE INSTALLING,
OPERATING OR SERVICING THIS EQUIPMENT.

SERVICE KITS

- Use only genuine ARO replacement parts to assure compatible pressure rating and longest service life.
- 66614 for repair of Air Motor Section.
- 637071-XXX for repair of Lower Pump 66243-X.

GENERAL DESCRIPTION

⚠ WARNING DO NOT EXCEED MAXIMUM OPERATING PRESSURE OF 5,964 P.S.I. (416 BAR) AT 150 P.S.I. (10.4 BAR) AIR INLET PRESSURE.

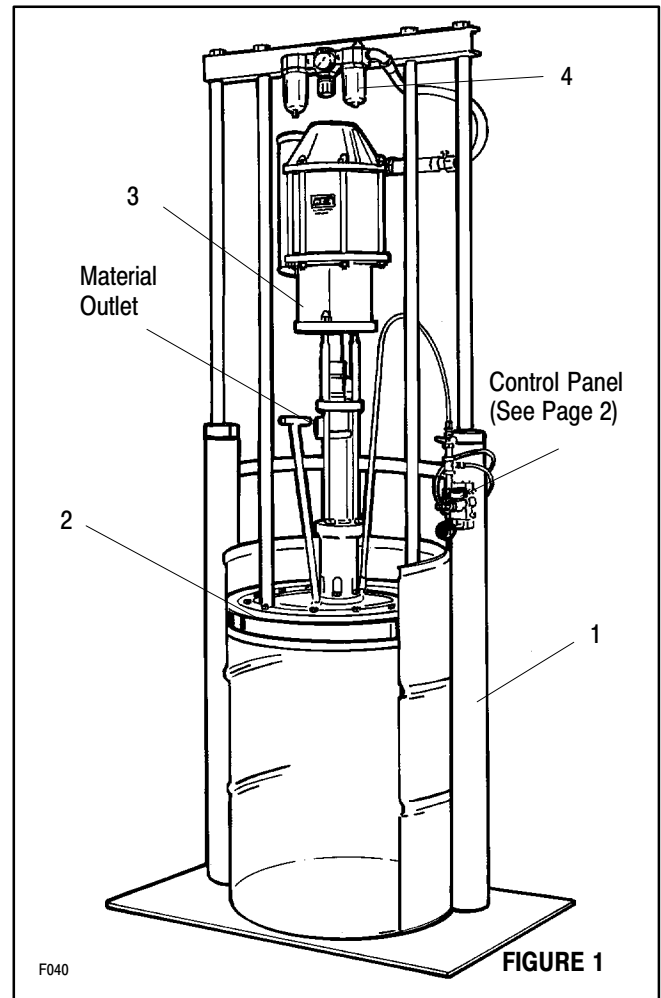
⚠ WARNING REFER TO GENERAL INFORMATION SHEET FOR ADDITIONAL SAFETY PRECAUTIONS AND IMPORTANT INFORMATION.

By delivering a smooth, continuous bead of the proper size, an ARO system helps the operator maintain both his production rate and produce quality standards. Maintained quality standards assures that the material benefits are realized. To further maximize operator production time, the ARO System has a built-in lift/ram feature for quick and easy drum changeover.

ARO Systems are totally enclosed, sealing the material in the system from air and moisture, preventing premature cure-out of the material. This allows for either continuous or intermittent use of the system and reduces the need for daily system clean-up.

Built-in lift capability allows for quick drum changeover and easy lifting of pump assembly from container.

The 44:1 ratio is an expression of the relationship between the effective air motor area and the effective lower pump area. When 150 PSI (10 bar) of air pressure is supplied to the air motor, the lower pump area will develop a maximum of 5,964 PSI (416 bar) of fluid pressure (at no flow) as the fluid control is opened, the flow rate will increase as the air motor cycle rate increases to keep up with the demand.



MAJOR COMPONENTS LIST

| Item | Description | Qty | Part No. | Item | Description | Qty | Part No. |
|------|----------------|-----|----------|------|---------------------|-----|------------|
| 1 | Two Post Ram | 1 | 67081 | 3 | Basic Pump Assembly | 1 | 650891-G43 |
| 2 | Follower Plate | 1 | 66516-1 | 4 | Air Manifold | 1 | 651730 |

THE ARO CORPORATION • ONE ARO CENTER • BRYAN, OHIO 43506-0151

☎ (419) 636-4242 • FAX (419) 636-2115
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INSTALLATION

The 650296 Chop-Check Dispensing System comes completely assembled. Remove unit from crate and place on a level surface. Install material hose and dispensing device as required.

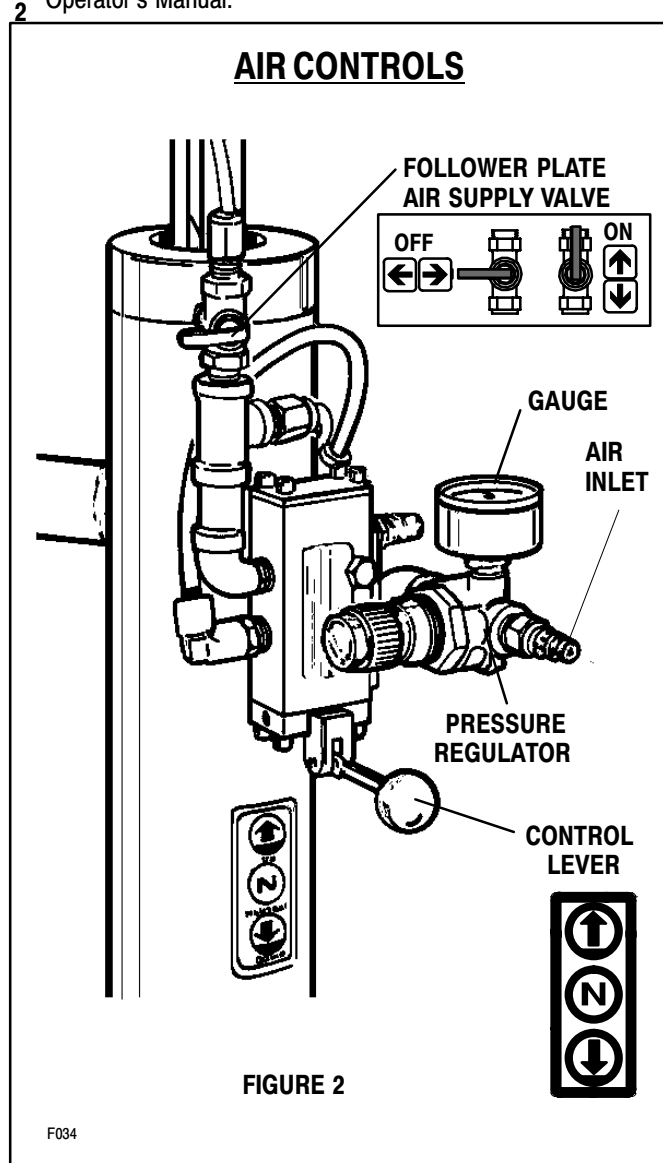
When the following instructions are observed, heavy paste materials can be pumped directly from their original 5 or 55 gallon drum without

air inclusion, or excessive waste. The follower plate creates an air tight seal as well as clean-wiping action in its progressive downward movement into the drum.

OPERATING INSTRUCTIONS

OPERATING INSTRUCTIONS / INITIAL SETUP PROCEDURE

⚠ WARNING **STAND CLEAR.** When raising or lowering the lift. Read the warning on page 2 of 651616-X Two Post Lift/Ram Operator's Manual.



TO RAISE LIFT, (THE FIRST TIME):

1. Take note of the pump/drum clearance above. Be certain the lift is clear of any objects above. Also refer to OPERATING AND SAFETY PRECAUTIONS found on page 2 of 651616-X Two Post Lift/Ram Operator's Manual.
2. Connect the air supply (160 PSI MAX) to the air inlet. Adjust (Turn Lift/Ram Pressure Regulator Knob Clockwise) air pressure on lift/ram pressure regulator to 20 P.S.I. (1.2 Bar)
3. Shift the control valve lever to the "UP" position.
4. Raise the Lift/Ram high enough to clear the height of the drum. Stop the lift upward travel by moving the control valve lever to the (center) "NEUTRAL" position.

REFER TO PAGE 3:

1. Once Lift/Ram assembly and pump are in the "UP" position, place and center an opened 5 or 55 gallon drum of material on the lift/ram base.
2. Lubricate lower follower wiper plate seal with any type grease. (silicone, vaseline, gear, etc.) This ensures a smooth fit into the drum as well as prevents curing type compounds from bonding to seal.
3. Check vent plug on follower plate to be sure it easily threads in and out. It is recommended to lubricate the threads of the plug to help prevent possible set up of compound at this point. **See 651616-X Operator's Manual.**

TO LOWER LIFT:

⚠ WARNING **PINCH HAZARD.** Follower can descend quickly causing injury. Keep hands clear when aligning with container. Read the warning on page 2 of 651616-X Two Post Lift/Ram Operator's Manual.

NOTE: Be certain the Follower Plate vent plug has been removed so that the air trapped between the follower and the material is allowed to escape from this vent. Captured air between the follower plate and drum will escape.

NOTE: The Lift/Ram may hesitate momentarily before starting downward, the air pressure inside the post air chamber must decrease before it will begin to descend.

1. Shift the control valve lever to the "DOWN" position and proceed to lower the pump.
2. Replace the vent plug once the material begins to ooze from the vent opening.
3. The unit is now ready for operation. Adjust (Turn pump regulator Clockwise) air pressure on pump Filter/Regulator until pump begins to cycle.
4. Trigger gun to prime pump with material.

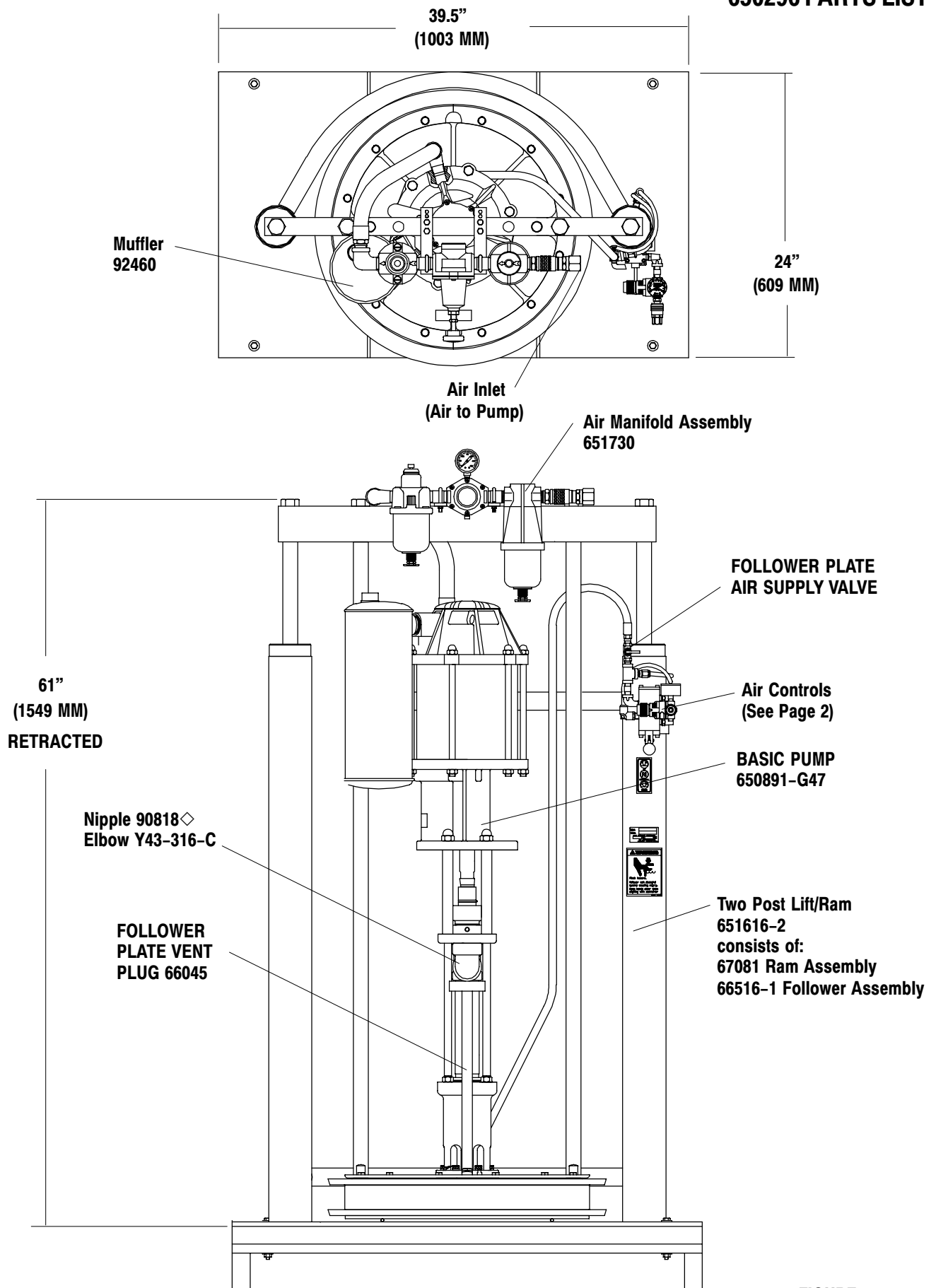
TO RAISE LIFT, (NORMAL OPERATION):

1. Adjust the Follower Plate Air Valve pressure up to approximately 8 psig. **DO NOT OVERPRESSURIZE THE DRUM** to avoid damage.
NOTE: Air from this valve will only pass when the Control Lever is in the "UP" position.
2. Shift the control valve lever to the "UP" position.
3. Raise the Lift/Ram high enough to clear the height of the drum. Stop the lift upward travel by moving the control valve lever to the (center) "NEUTRAL" position.

TO CHANGE DRUM:

NOTE: The Control Lever should be in the "NEUTRAL" position.

1. Unscrew thumb screw and remove old drum.
2. Place and center a new drum into position. Remove cover. Tighten thumb screw.



◇ Apply Anaerobic Pipe
Thread Sealant to Male
Threads

FIGURE 3

