

# OPERATOR'S MANUAL

# SP0646S2XXXXXXX

## INCLUDING: OPERATION, INSTALLATION AND MAINTENANCE.

RELEASED: 3-24-10  
(REV. 01)

INCLUDE MANUALS: AF0646S2XXXXXX Extrusion Pump (97999-1508), 66731-X Follower Plate (pn 97999-213), 67342-X Follower Assembly (pn 97999-1099), 67347-X Follower Assembly (pn 97999-1102), RM051S-XXX-XX Single Post Lift / Ram (pn 97999-1335), & S-636 General Information (pn 97999-636)

**6" AIR MOTOR**  
**46:1 RATIO**  
**6" STROKE**

## SINGLE POST RAM PACKAGE 5 GALLON



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

**It is the responsibility of the employer to place this information in the hands of the operator. Keep for future reference.**

### SERVICE KITS

- Use only genuine ARO® replacement parts to assure compatible pressure rating and longest service life.
- **637489** for repair of air motor section.
- **104302** for repair of P39124-100 filter / regulator.
- **104453** for repair of P39344-100 filter / regulator.
- **637465** for repair of lift / ram seals.
- **637307-X43** for repair lower end pump section.

### MODEL DESCRIPTION CHART

SP 06 46 S 2 XXXXX XX X			
<b>Package</b> SP - Single Post			
<b>Air Motor Size</b> 06 - 6"			
<b>Pump Ratio</b> 46 - 46:1			
<b>Check Type / Wetted Materials</b> S - Chop Check / Carbon Steel			
<b>Mount Style</b> 2 - 5 gallon (35 lbs)			
<b>Lower Pump End Options</b> Refer to pump model operator's manual			
<b>Follower Assembly</b> E3 - 67342-1    EA - 66732-1    T8 - 67347-11 E1 - 67342-2    EB - 66732-1    T7 - 67347-12 E5 - 67342-3    A8 - 67347-1 EC - 66732        A7 - 67347-2			
<b>Package Option</b> 0 - None - Basic Control for Ram only 2 - Advanced Ram and Pump Controls			

SP0646S2XXXXXXX

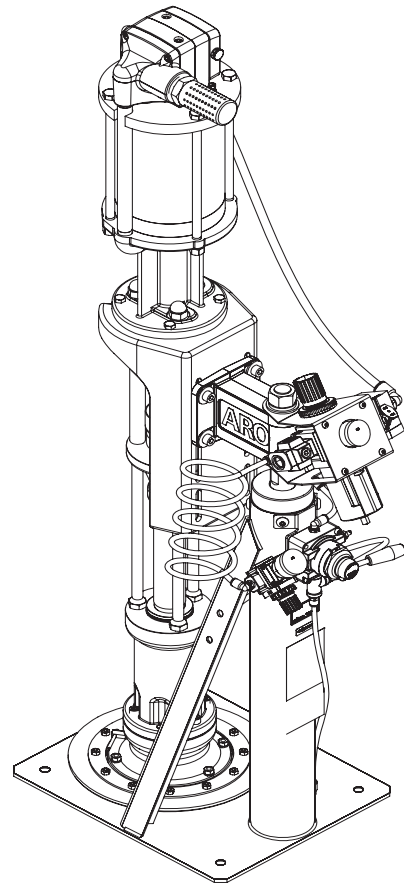


Figure 1

### GENERAL DESCRIPTION

By delivering a smooth, continuous bead of the proper size, an ARO system helps the operator maintain both production rate and produce high 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 and easy lifting of the pump assembly from the container.

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 allows the need for daily system clean-up.

**airpumping.co.uk**

Unit 16, Upminster Trading Park, Warley St., Upminster, Essex, RM14 3PJ, ENGLAND

**ARO**  **Ingersoll Rand**  
Industrial Technologies

## INSTALLATION

The SP0646S2XXXXXXX Ram System comes completely assembled. Remove the unit from the crate and place on a level surface. Install the material hose and dispensing device as required. When the following instructions are observed, heavy

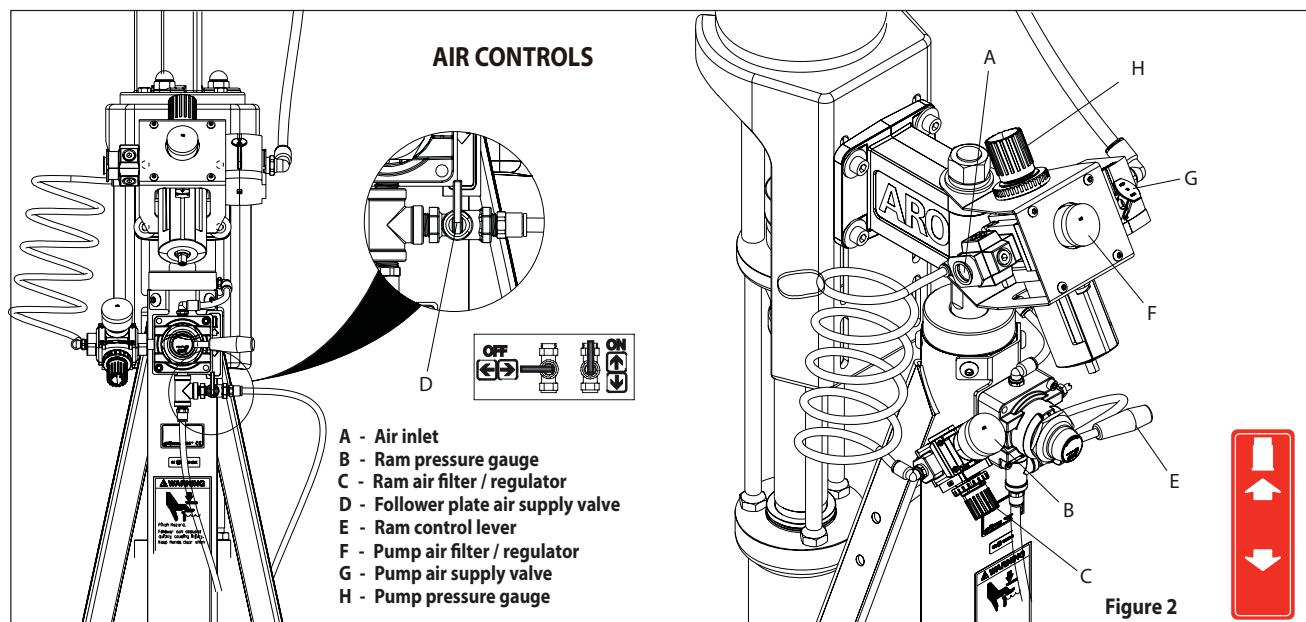
paste materials can be pumped directly from their original drum without air inclusion or excessive waste. The follower plate creates an air tight seal as well as clean-wiping action in its progressive downward movement into the drum.

## OPERATING INSTRUCTIONS

### OPERATING INSTRUCTIONS / INITIAL SET-UP PROCEDURE

**⚠ WARNING STAND CLEAR WHEN RAISING OR LOWERING THE LIFT.**

Read the warnings on page 3 of RM051S-XXX-XX Single Post Lift / Ram Operator's Manual.



#### TO RAISE THE LIFT, (THE FIRST TIME):

1. Take note of the pump / drum clearance above. Be certain the lift / ram is clear of any objects above. Also, refer to "Operating and Safety Precautions" found on page 3 of RM051S-XXX-XX Single Post Lift / Ram Operator's Manual.
2. Connect the air supply (115 p.s.i. / 7.9 bar max.) to the air inlet. Adjust the air pressure on the lift / ram pressure regulator (turn the knob clockwise) to 20 p.s.i. (1.4 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 "neutral" (center) position.
5. Once the lift / ram assembly and pump are in the "up" position, place and center an opened drum of material on the lift / ram base.
6. Lubricate the lower follower wiper plate seal with grease. NOTE: Make certain the grease is compatible with the material being dispensed. This ensures a smooth fit into the drum, as well as prevents curing type compounds from bonding to the seal.
7. Check the vent plug on the 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 the compound at this point (see RM051S-XXX-XX Operator's Manual).

#### TO LOWER LIFT:

**⚠ WARNING PINCH HAZARD. Follower can descend quickly, causing injury. Keep hands clear when aligning with container.** Read the warnings on page 3 of RM051S-XXX-XX Single 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.

**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. Open the pump air supply valve. Adjust the air pressure on the pump filter / regulator (turn the pump regulator knob clockwise) until the pump begins to cycle.
4. Trigger the gun to prime the pump with material.

#### TO RAISE LIFT, (NORMAL OPERATION):

1. Close the pump air supply valve.
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 "neutral" (center) position.

#### TO CHANGE THE DRUM:

**NOTE:** The control valve lever must be in the "neutral" position and the pump air supply valve should be closed.

1. To avoid damage, DO NOT OVER PRESSURIZE THE DRUM.
2. Open the follower plate air supply valve to allow air under the follower plate.
3. Shift the control valve lever to the "up" position.
4. Place and center a new drum into position. Remove the cover.

## PARTS LIST / SP0646S2XXXXXXX

Item	Description (size)	Qty	Part No.
1	Pump Assembly	(1)	AF0646S1XXXXXX
2	Male Elbow	(1)	59756-58
3	Single-Post Lift / Ram	(1)	RM051S-XXX-XX
4	Follower Assembly (see model description chart on page 1)	(1)	
5	Washer	(1)	Y13-6-C
6	Cap Screw (3/8" - 16 x 1-1/2")	(4)	Y6-67-C
7	Lock Washer (3/8")	(4)	Y14-616-C
8	Nut (3/8" - 16)	(4)	Y12-6-C
9	Wet-Sol "Plus" (1 quart) (not shown)	(1)	66333-B

Item	Description (size)	Qty	Part No.
10	Tubing (5/16" o.d. x 30")	(1)	94980-(2)
11	Tubing (1/2" o.d. x 33")	(1)	94978-(1)
12	Cap Screw	(4)	Y99-63-C
①	Bulk Tubing (1/2" o.d. x 100')	(1)	94978-100
②	Bulk Tubing (5/16" o.d. x 100')	(1)	94980-100

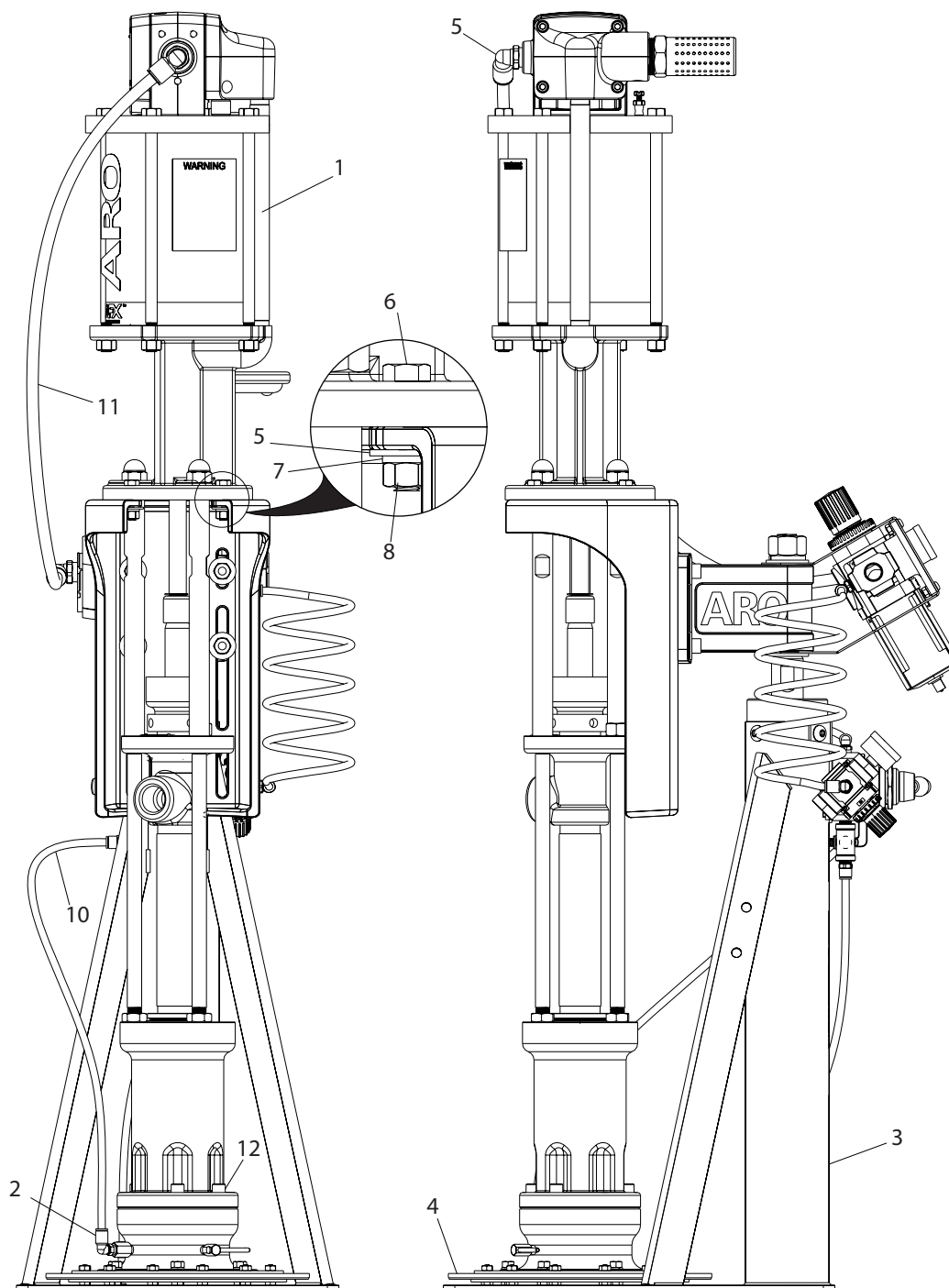
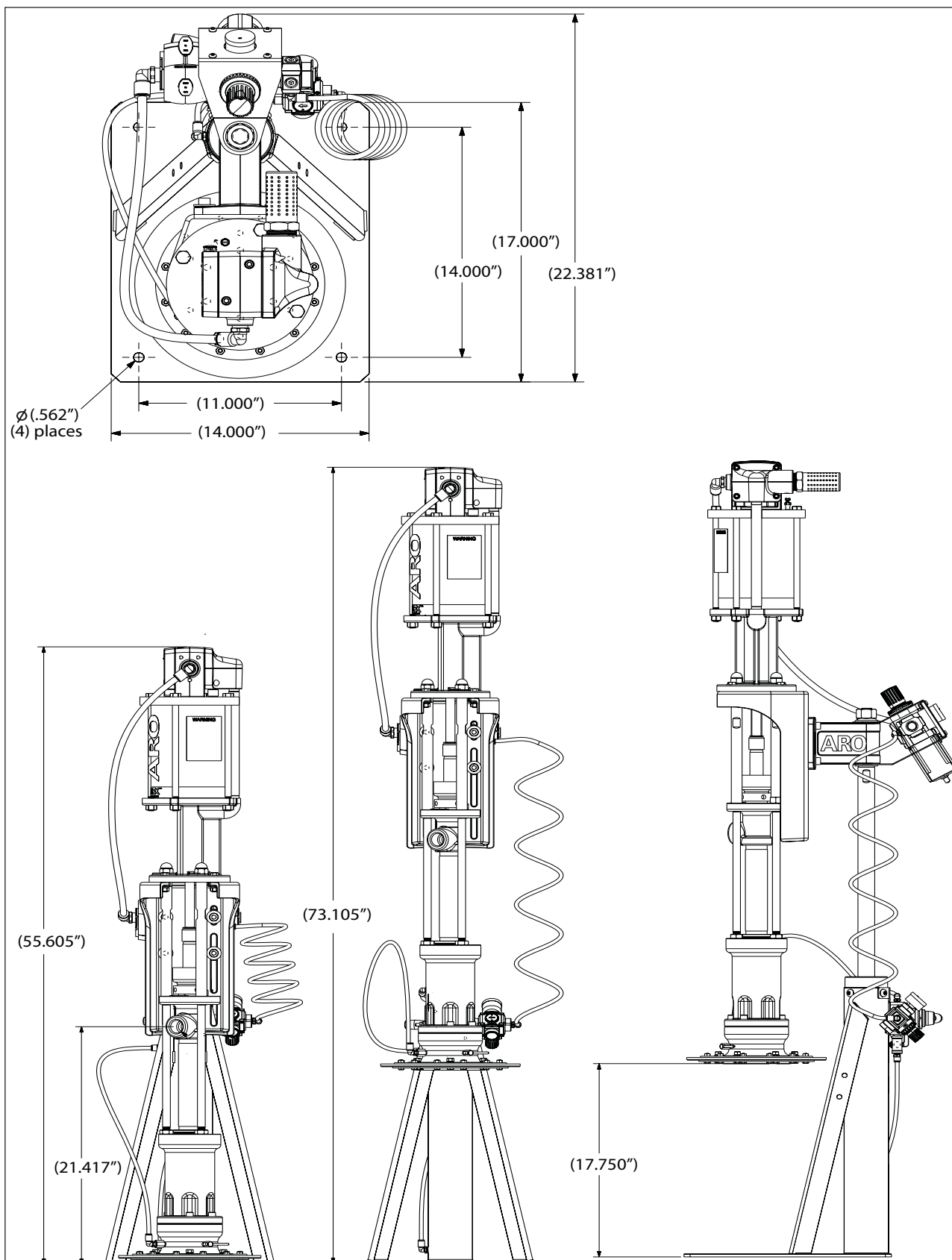


Figure 3

## DIMENSIONAL DATA



**Figure 4**