

OPERATOR'S MANUAL

TP0423X2XXXXXXXXXX

INCLUDING: OPERATION, INSTALLATION AND MAINTENANCE.

INCLUDE MANUALS: AF0423SXXXXXXXX-XX-X Extrusion Pump (97999-1499), AF0423TXXXXXXXX-XX-X Extrusion Pump (97999-1922), 66732-X Follower Plate (pn 97999-213), 67485-X Follower Assembly (pn 97999-1808), 67347-X Follower Assembly (pn 97999-1102), 67532-X Follower Assembly (pn 97999-1914), 67536-X Follower Assembly (pn 97999-1912), RM0525-X Two Post Lift / Ram (pn 97999-1345), and S-636 General Information (pn 97999-636).

RELEASED: 2-15-10
 REVISED: 11-26-21
 (REV: E)

4-1/4" AIR MOTOR
23:1 RATIO
6" STROKE

TWO 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 AF0460-XX air motor.
- **104217** for repair of P39124-120 filter / regulator.
- **104327** for repair of P39344-110 filter / regulator.
- **637466** for repair of lift / ram seals.
- **637074-X43-B** for repair of 66266-X43-B lower pump section on TP0423SXXXXXXXX models.
- **K1380TXXXXXXXX** for repair of 1380T11XX47 lower pump section on TP0423I2XXXXXXXX models.

MODEL DESCRIPTION CHART

TP 04 23 X 2 XXXXX XX X	
Package TP - Two Post	
Air Motor Size 04 - 4-1/4"	
Pump Ratio 23 - 23:1	
Check Type / Wetted Materials S - Chop Check / Carbon Steel T - Chop Check / Stainless Steel	
Mount Style 2 - 5 gallon (35 lbs)	
Lower Pump End Options Refer to pump model operator's manual	
Follower Assembly	
E1 - 67485-2	A7 - 67347-2
E3 - 67485-1	A8 - 67347-1
E5 - 67485-3	T7 - 67347-11
EA - 66732-1	T8 - 67347-11
EB - 66732-2	TU - 67532-1
EC - 66732	S2 - 67536-1
Package Option	
0 - None- Basic Control for Ram only	
2 - Advanced Ram and Pump Controls	

TP0423X2XXXXXXXXXX RAM PACKAGE

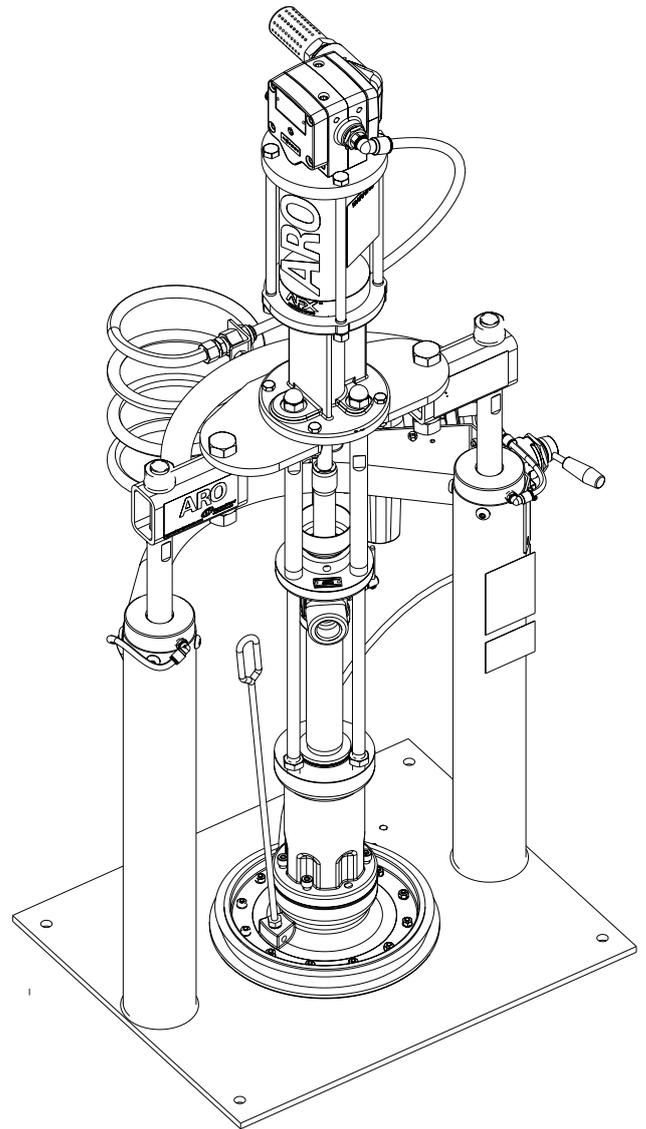


Figure 1

INSTALLATION

The TP0423X2XXXXXXX 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.

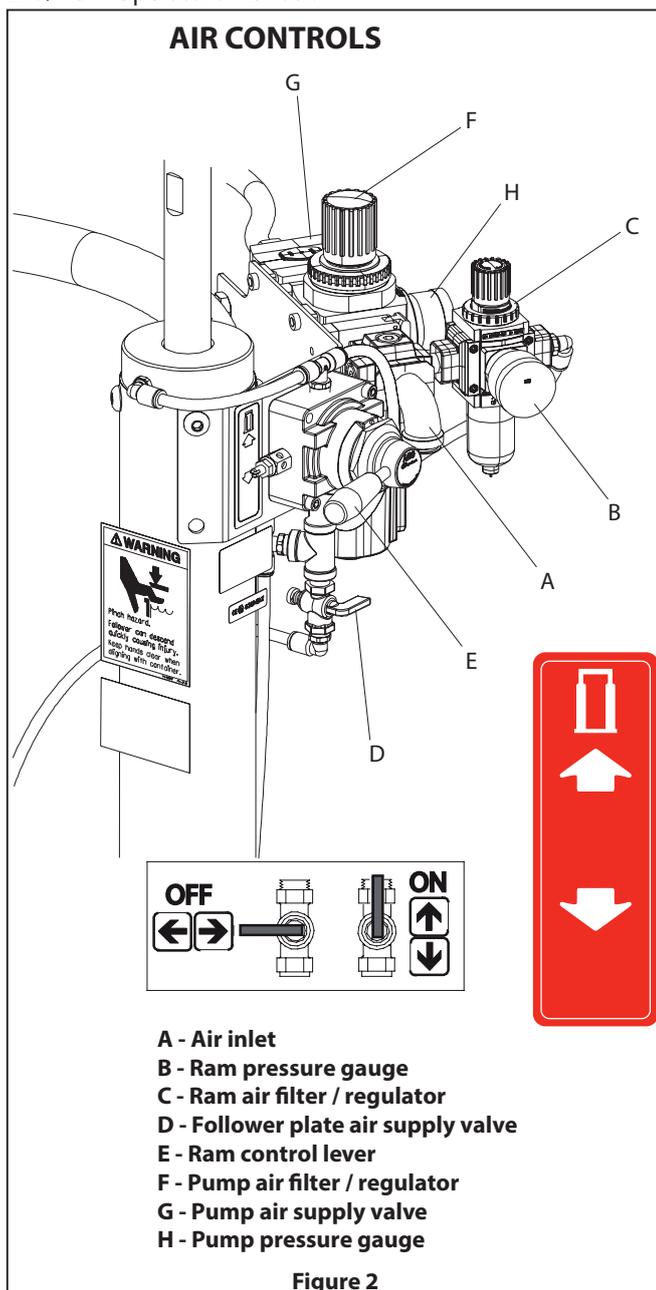
When the following instructions are observed, heavy paste materials can be pumped directly from their original drum without air inclusion or excessive waste. The follower plate creates an air tight seal as well as clean-wiping action in its progressive downward movement into the drum.

OPERATING INSTRUCTIONS

OPERATING INSTRUCTIONS / INITIAL SET-UP PROCEDURE

⚠ WARNING STAND CLEAR WHEN RAISING OR LOWERING THE LIFT.

Read the warnings on page 2 of RM052X-XXX-XX Two 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 2 of RM052X-XXX-XX Two Post Lift / Ram Operator's Manual.
2. Connect the air supply (150 psig / 10.3 bar max.) to the air inlet. Adjust the air pressure on the lift / ram pressure regulator (turn the knob clockwise) to 20 psig (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 5 gallon drum of material on the lift / ram base.
6. Lubricate the lower follower wiper plate seal with grease. This ensures a smooth fit into the drum, as well as prevents curing type compounds from bonding to the seal. **NOTE:** Make certain the grease is compatible with the material being dispensed.
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 RM052X-XXX-XX Operator's Manual).

LOWER LIFT:

⚠ WARNING PINCH HAZARD. Follower can descend quickly, causing injury. Keep hands clear when aligning with container. Read the warnings on page 2 of RM052X-XXX-XX 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. 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:

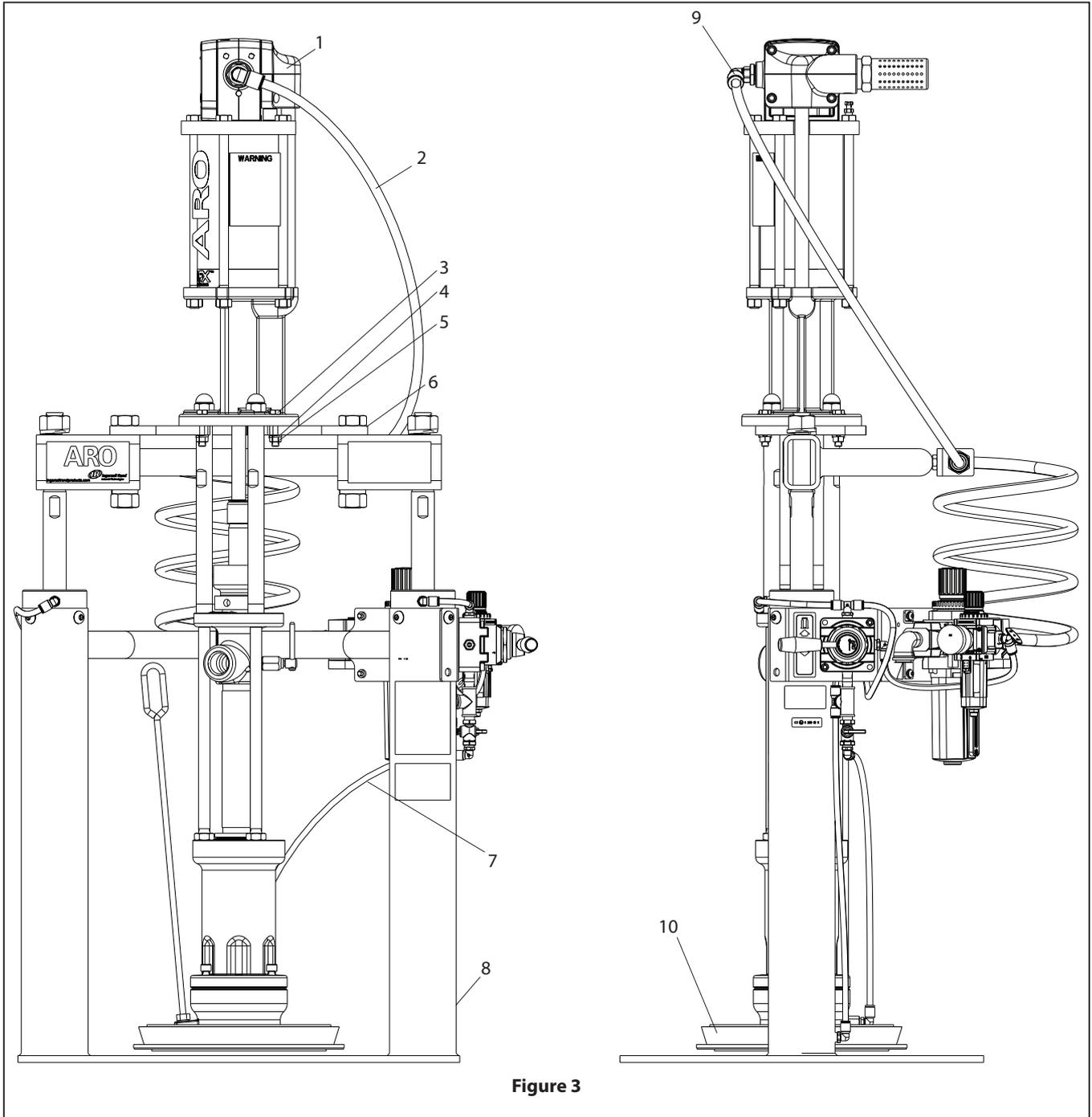
NOTE: The control valve lever must be in the "neutral" position.

1. To avoid damage, **DO NOT OVER PRESSURIZE THE DRUM.**
2. Open the follower plate 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 / TP0423X2XXXXXXX

Item	Description (size)	Qty	Part No.
1	Pump Assembly	(1)	AF0423S1XXXXX (for TP0423S2XXXXXXX)
		(1)	AF0423T1XXXXX (for TP0423T2XXXXXXX)
* 2	Tubing (1/2" OD x 33")	(1)	94978-(①)
3	Cap Screw (3/8" - 16 x 1-1/2")	(4)	Y6-68-C
4	Lock Washer (3/8")	(4)	Y14-616-C
5	Nut (3/8" - 16)	(4)	Y12-6-C
6	Mounting Plate	(1)	96737
* 7	Tubing (5/16" OD x 30")	(1)	94980-(②)

Item	Description (size)	Qty	Part No.
8	Two-Post Lift / Ram	(1)	RM052S-XXX-XX
* 9	90° Male Fitting (1/2 NPT x 1/2" OD)	(1)	59756-362
10	Follower Assembly (see model description on page 4)	(1)	
11	Wet-Sol "Plus" (1 quart) (not shown)	(1)	66333-B
①	Bulk Tubing (1/2" OD x 100')	(1)	94978-100
②	Bulk Tubing (5/16" OD x 100')	(1)	94980-100
* Included with RM052S-XXX-XX			



MODEL DESCRIPTION / FOLLOWER PLATE OPTIONS

Model	Pump Size	Follower Plate Material	Seal Type	Seal Material	Seal Diameter	Follower Asm.	
TP0423S2XXXXXA7X	Standard Footprint "A"	Aluminum	Single Tube	EPR	11.440" (290.6 mm)	67347-2	
TP0423S2XXXXXA8X				Nitrile		67347-1	
TP0423S2XXXXXT7X		Aluminum with PTFE Coating		EPR		67347-12	
TP0423S2XXXXXT8X				Nitrile		67347-11	
TP0423T2XXXXXTUX				EPR		67532-1	
TP0423S2XXXXXE1X		Carbon Steel, Electroless Nickel Coating		Single Lip		Nitrile / Polyethylene	11.614" (295.0 mm)
TP0423S2XXXXXE3X			Polyurethane / Polyethylene		11.437" (290.5 mm)	67485-1	
TP0423S2XXXXXE5X			Nitrile / Polyethylene		12.281" (311.9 mm)	67485-3	
TP0423T2XXXXXS2X		Stainless Steel	PTFE Coated Nitrile / Polyethylene		11.437" (290.5 mm)	67536-1	
TP0423S2XXXXXEAX		Carbon Steel, Electroless Nickel Coating	Double Lip		Polyurethane	11.609" (294.9 mm)	66732-1
TP0423S2XXXXXEBX					EPR		66732-2
TP0423S2XXXXXECX				Nitrile	66732		

DIMENSIONAL DATA

