OPERATOR'S MANUAL

650221-X

INCLUDING: OPERATION, INSTALLATION & MAINTENANCE

INCLUDE 6641X-X AIR MOTOR, 65106-X LOWER PUMP, FORM 3637-2

GENERAL INFORMATION SHEET

3" AIR MOTOR 4:1 RATIO 2 1/4" STROKE 650221-X TWO-BALL STAINLESS STEEL PUMP 55 GALLON

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

SERVICE KITS

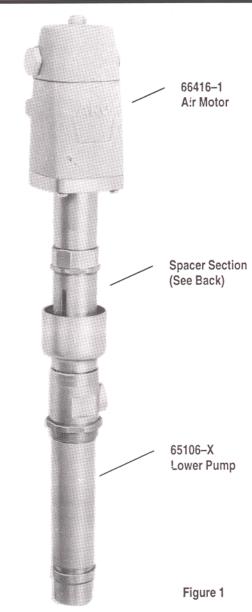
- Use only genuine ARO replacement parts to assure compatible pressure rating and longest service life.
- 637066–B for repair of Air Motor Section.
- 637010 for repair of Lower Pump 65106.
- 637010–4 for repair of Lower Pump 65106–4.
- 637011 for general repair of Lower Ball Check.

GENERAL DESCRIPTION

WARNING: DO NOT EXCEED MAXIMUM OPERATING PRESSURE OF 600 P.S.I. (41.3 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.

- This MODEL MANUAL is one of four documents needed to properly support an ARO pump model. Ref: Part A. 650XXX–XXX–X MODEL (OPERATOR'S) MANUAL, Part B. GENERAL INFORMATION, Part C. MOTOR (OPERATOR'S) MANUAL, Part D. LOWER PUMP END (OPERATOR'S) MANUAL. These forms are available from the factory if needed.
- The two-ball design provides for easy priming of the lower foot valve. The double acting feature is standard in all ARO industrial pumps, material is delivered to the pump discharge outlet on both the up and down stroke.
- The motor is connected to the lower pump end with a spacer tube and solvent cup-this allows for lubrication of the upper packing gland-and to prevent air motor contamination because of normal wear and eventual leakage through the material packing gland.
- Operating at excessive pressures will shorten the life of the pump.



MODEL NO.	LOWER PUMP
650221	65106
650221-4	65106-4



PUMP DISASSEMBLY

NOTE: All threads are right hand.

- 1. Loosen (3) lock nut and unscrew entire pump from the air motor base. This will expose (1) retaining screw. (Refer to Figure 2.)
- 2. Unscrew (1) retaining screw to remove pump assembly from air
- 3. Unscrew (2) shoulder nut to remove (1) retaining screw.

PUMP ASSEMBLY

1/4" NPTF

Air Inlet

NOTE: Clean all parts thoroughly before assembly.

- 1. Slide (1) retaining screw over air motor rod as shown in Figure 2.
- 2. Screw (2) shoulder nut to air motor rod.
- 3. Screw (1) retaining screw to lower pump plunger.
- 4. Screw lower pump end to air motor base.
- 5. Screw (3) lock nut to screw lower pump end to air motor.

TROUBLE SHOOTING

PROBLEM

_ Cause, solution.

Pump will not cycle.

- _ No pressure to motor, See motor manual.
- _ Restricted return lines, clean obstruction.
- _ Damaged motor, service motor.
- Be sure to eliminate any possible non-punnp problems before suspe

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pecting pump malfunction and continuing.	
Pump problems will typically occur in one of two areas:	
1. The Air Motor Section.	
2. The Lower Pump Section.	*.
_ Determine which section is affected.	, 90604 "U" Cup
	90598 Washer
SPACER SECTION	Y147-112-S
ITEM PART NO DESCRIPTION A 90609 Retaining Screw	Retaining Ring
A \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	90640 Adapter
C 90606 Lock Nut	(Torque to 100, 105 Ft. 11.)
	53 9/32" (1852 mm)
Air Motor Rod	(1002 11111)
/ / / / / / / / / / / / / / / / / / /	
	Spacer Section
A	
Retaining Screw	
(Clean threads and apply Loctite	3/4" NPTF
242 Nut Lock)	Material Outlet
B Shoulder Nut	
Shoulder Hut	
Plus	
Plunger	33.25"
	(845 mm)
C	
Lock Nut	
(Torque Nut to 50–65 Ft–Lbs.)	<u> </u>
Spacer Tube	1 1/4" NPSM
Figu	Material Inlet
rigu	II G &
	P/N 97999–58: