

INCLUDING:

OPERATION, INSTALLATION, & MAINTENANCE

ALSO INCLUDE SERVICE SHEETS: 6641X-X AIR MOTOR MANUAL.

640028 FOLLOWER PLATE, 636077

SWIVEL, 636103 CONTROL HANDLE

RELEASED: 8-13-73

REVISED: 6-21-10

(REV. 02) IPP/PSE

612612-D PORTABLE CHASSIS LUBRICATOR

120 LB. DRUM
CABINET STYLE

50:1 RATIO

USE SERVICE KITS

637066 for 66410 Air Motor Ass'y.

637021 for Lower End Pump Ass'y.



WARNING: HIGH PRESSURE DEVICE

IMPROPER USAGE OF EQUIPMENT COULD RESULT IN SERIOUS INJURY. THE POSSIBILITY OF INJECTION INTO THE FLESH IS A POTENTIAL HAZARD. NEVER ALLOW ANY PART OF THE HUMAN BODY TO COME IN FRONT OF OR IN DIRECT CONTACT WITH THE MATERIAL OUTLET.

AN INJECTION INJURY CAN BE SERIOUS! IF INJECTION SHOULD OCCUR, CONTACT A QUALIFIED PHYSICIAN FOR IMMEDIATE TREATMENT OF SUCH INJURIES.

DO NOT EXCEED MAXIMUM WORKING PRESSURE OF 7500 PSI [517 BAR] AT 150 PSI [10 BAR] AIR PRESSURE.

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

LOWER PUMP END

The 50:1 ratio is an expression of the relationship between the effective air motor area and the effective lower pump end area. When 150 P.S.I. (10 bar) of air pressure is supplied to the air motor, the lower pump end will develop the maximum working pressure of 7500 P.S.I. (517 bar). As the fluid control is opened, the flow rate will increase as the air motor cycle rate increases to keep up with the demand.

SAFETY INSTRUCTIONS

Use ARO replacement parts to assure compatible pressure rating. Read All Warning and Safety Instructions carefully before operation of this unit.

Heed All Warnings.

WARNING

1. **Never allow any part of the human body to come in front of or in direct contact with the material outlet.** Accidental operation of the pump could cause an injection into the flesh. If injection occurs, medical aid must be immediately obtained from a physician.
2. **Component Rupture** — This unit is capable of producing high fluid pressure as stated on the pump model plate. To avoid component rupture and possible injury **do not exceed 75 cycles per minute or operate at an air inlet pressure greater than 150 P.S.I. (10 bar).**
3. **Servicing** — Before servicing, cleaning or removing any component, always disconnect or shut-off power source and carefully relieve all fluid pressure from the system.

CAUTION: When pumping, flushing or recirculating volatile solvents, the area must be adequately ventilated.

INSTALLATION

In remote installations, do not connect reel or control handle to material line until the following has been accomplished after mounting pump to desired location:

1. Before connecting pump, first blow out material line with air.
2. Connect fluid hose to pump material outlet.
3. Pump has been tested in grease and a small amount remains in the pump end. Grease must be flushed from unit before placing into operation.
4. To flush system of grease, immerse material inlet hose from lower pump end into a 5 gallon pail of compatible solvent. Place the material outlet end of the outlet fluid hose in the pail of compatible solvent to complete the system.

AIR MOTOR SECTION

The air motor section is removable from the lower pump end for easier servicing. Consult air motor operator's manual for parts list and proper manual disassembly and assembly procedures.

CAUTION: Materials and solvent being pumped must be compatible with the parts of the pump that become wetted when in contact with material or solvent. Wetted parts consist of the following: PTFE, Vellumoid, Polysulfide Rubber and Celcon.

CAUTION: Keep solvents away from heat, sparks and open flames, keep containers closed when not in use.

WARNING:

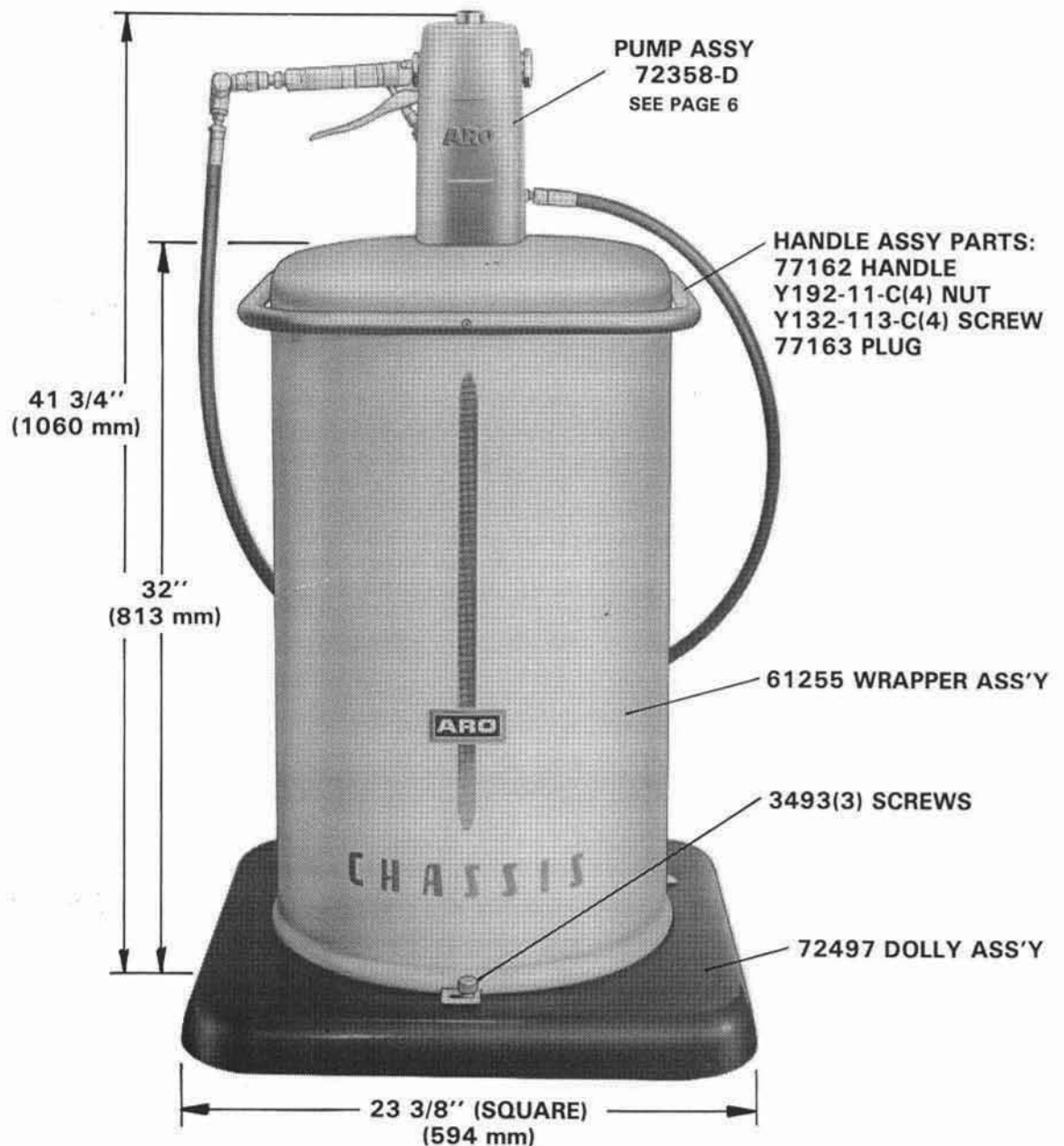
PREVENT STATIC SPARKING if static sparking occurs, fire or explosion could result. Pump, dispensing valve, and containers must be grounded when handling inflammable fluids such as solvents, paints, lacquers, etc. and wherever discharge of static electricity is a hazard.

Use grounded hoses (static wire) and be sure the object being serviced is grounded, if it can produce a static charge.

Continuity (a good static wire connection) of a hose can be checked by using an ohmmeter. Place one probe on one hose fitting and the other probe on the other hose fitting, continuity or proper grounding through hose is good when a reading is obtained on the ohmmeter.

5. Regulate air pressure from 30 to 50 P.S.I. (2-3 bar). Connect air supply to air motor inlet. Pump will start cycling. Let pump cycle slowly for a few minutes until kerosene is purged from pump.
6. Disconnect air supply. Remove pump from solvent.
7. Now connect pump and pump small amount of lubricant through line. This lubricant should be discarded.

The above procedure will clear any foreign material out of lines and insure line is not obstructed, thus aiding in trouble-free operation.



INCLUDED BUT NOT SHOWN ARE: 73934 SOCKET
73935 NUT

FIGURE 1

612612-D PORTABLE CHASSIS LUBRICATOR 50:1 RATIO

AIR AND LUBE REQUIREMENTS

Excessive air pressure will shorten the life of the pump. **Do Not** operate pump above recommended maximum air pressure of 150 pounds per square inch (10 bar) or 75 cycles per minute. Failure to observe warnings may cause personal injury and damage to the pump. If necessary, an air regulator should be installed to maintain the desired pressure when pump is in operation.

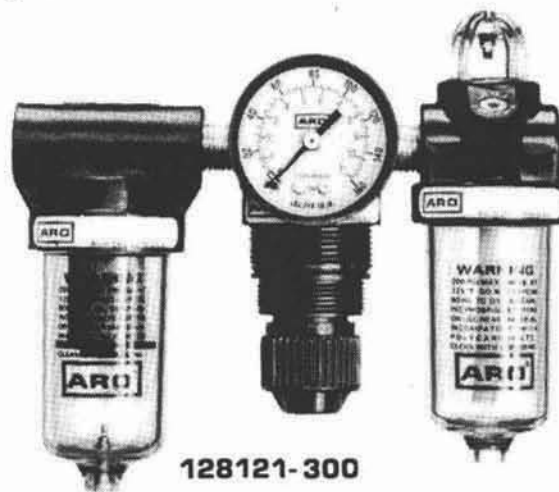
Filtered and oiled air will allow the pump to operate more efficiently and yield a longer life to operating parts and mechanisms.

Keep oiler supplied with a good grade of S.A.E. No. 90W non-detergent gear oil.

A filter capable of filtering particles larger than 50 microns should be used with an oiler.

FILTER-REGULATOR-LUBRICATOR combination (F-R-L) Model 128121-300 is recommended for use with this pump. The capacity of the individual Filter-Regulator-Oiler is adequate to provide clean (40

micron), regulated, and oiled air for the pump. (See Figure 2).



OPERATING INSTRUCTIONS

Be sure material hose, lines and other components are able to withstand pressures developed by pump.

1. When pump is flushed of kerosene and ready to operate, connect air line to the pump. Be certain that air supply does not exceed recommended maximum air pressure of 150 P.S.I. (10 bar).

CAUTION: Do not allow pump to operate when out of material.

2. Allow pump to cycle slowly and prime with material and bleed all air from system.

When removing gun from grease fitting, do not pull straight off. Move gun until coupler is about 45° angle to fitting and then pull off. This will greatly increase the life of the coupler.

3. Connect main air line to connector on air motor inlet. Regulate the air pressure to allow pump to cycle slowly. Allow pump to prime with material for 1 minute to get all air out of pump hose and control handle.

MAINTENANCE

If the pump is to be inoperative for a lengthy period of time (a few hours) disconnect air and relieve all pressure from system.

Disassembly should be done on a clean work bench with clean cloths to keep parts clean.

If replacement parts are necessary, consult parts list for identification.

Before assembling, lubricate parts where required. When assembling "O" rings or parts adjacent to "O" rings, care must be exercised to prevent damage to "O" ring and "O" ring groove surfaces.

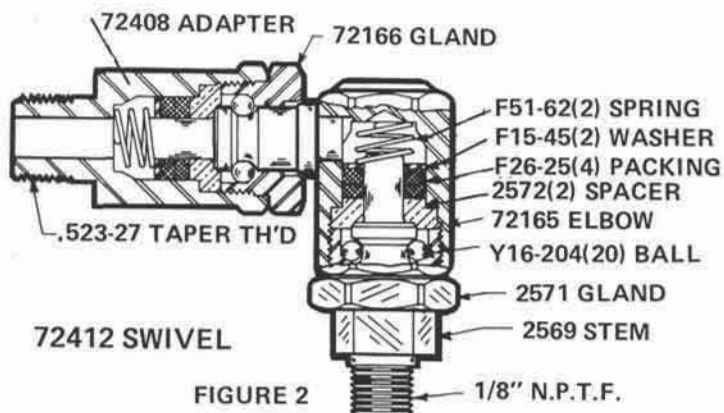
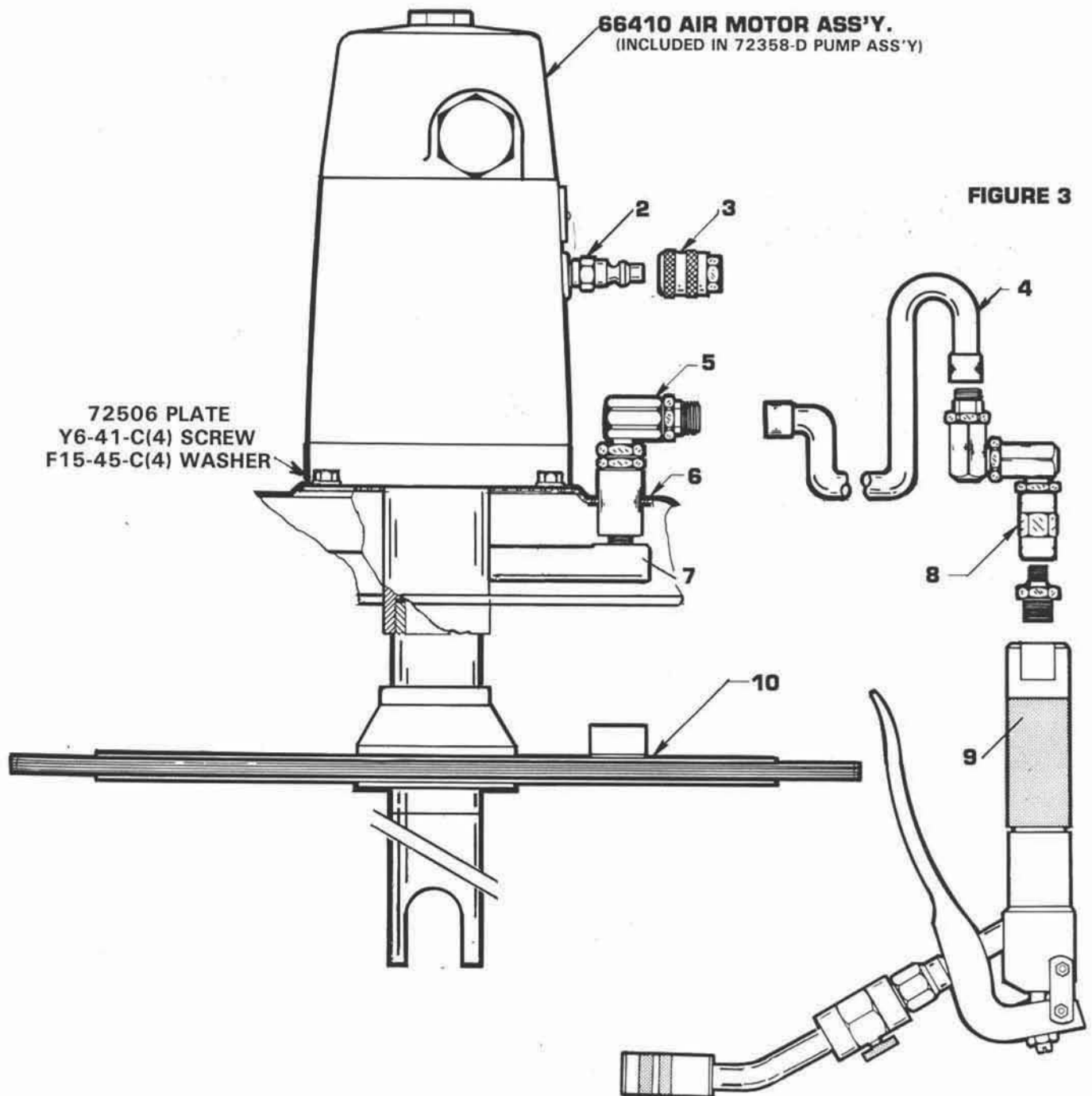
TROUBLE SHOOTING

Should pump operate, but dispense little or no lubricant, check for:

1. Inadequate supply of lubricant.
2. Improper feeding of lubricant into pump. This condition is known as "channeling" and is often indicated by light-colored frothy grease coming from control handle. Also, grease in container will not be level, but will cling to side of container and slope down to suction tube inlet. It usually occurs at cool temperatures and can be corrected by using the follower plate 640028.
3. Dirt or foreign matter between 60940 Foot Valve and 6797 Valve Seat, or other cause which may be preventing foot valve from properly seating on downstroke of piston.

If unit should be completely fail to operate, the following procedure will be helpful in determining the cause:

1. Check air pressure at pump to insure air line is not obstructed and air is being supplied to pump.
2. If insufficient air is not the trouble, disconnect 210 Speed Coupler at pump and then detach hose and gun at 72412 Swivel. **Remove slowly as pressure may be built up in pump.** Hold rag at this point and apply air to pump. If pump now operates, there is obstruction in material, reel, or control handle. If, however, pump will still not operate, consult local dealer.



ACCESSORIES LIST

PART NO.	DESCRIPTION
2 2608	CONNECTOR
3 210	COUPLER
4 624201-06	HOSE
5 72412	SWIVEL (AT LEFT)
6 72526	Grommet
7 72413	Adapter
8 636077	Z Swivel*
9 636103	Control Handle*
10 640028	Follower Plate*

*SEE OPERATOR'S MANUAL

LOWER PUMP END PARTS LIST

MODEL
612612-D

BASIC PUMP ASS'Y.
72358-D

**LOWER
PUMP END**
72359

**AIR
MOTOR**
66410

NOTE: 66410 AIR MOTOR IS USED ON PUMP BELOW. SEE
6641X-X AIR MOTOR MANUAL FOR PARTS LIST.

72358-D PUMP ASSY

(INCLUDES 66410 AIR MOTOR AND PARTS SHOWN BELOW)

