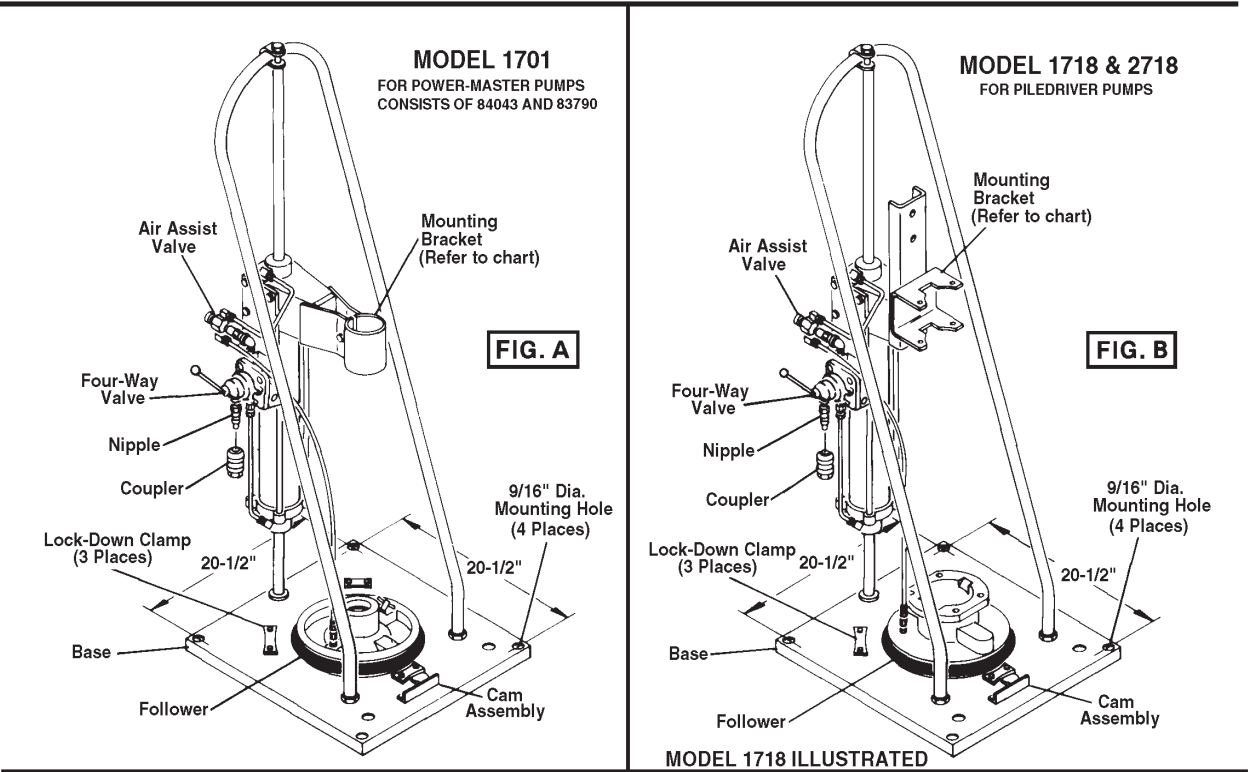


SPECIFICATIONS

5 GALLON CONTAINER SIZE

Size - 21-3/4" x 21-3/4" x 42-1/4" height
 Elevator travel - 17"
 Operating air pressure - 30-150 psi
 Normal air pressure required for pressure primer 40 psi
 Normal air pressure required for follower extraction - 60 psi



Models 1701 and 1718 are equipped with a four-way valve which permits the air supply to be coupled to the unit at all times. An air regulator and gauge (supplied by customer) is recommended between main air supply line and pump.

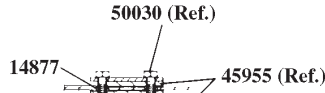
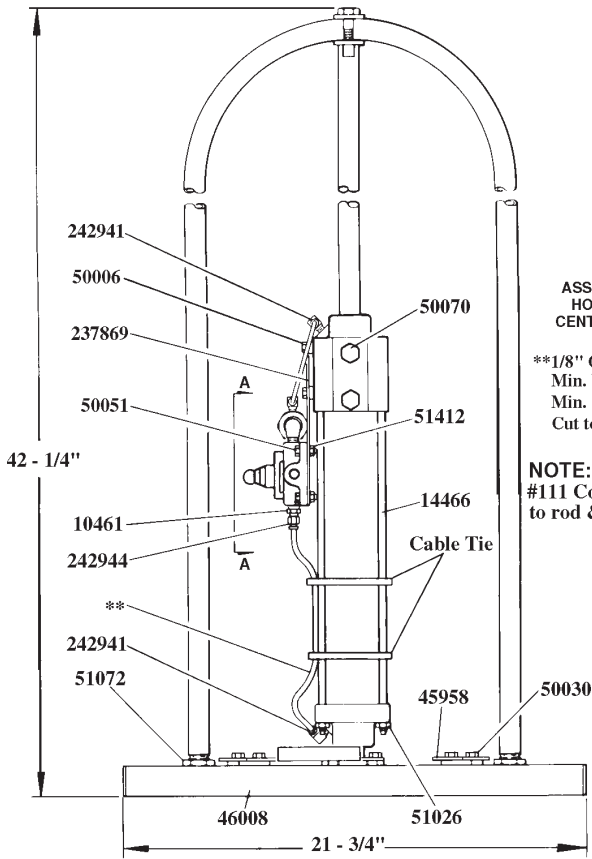
TO INSTALL POWER-MASTER PUMPS TO MODEL 1701 ELEVATOR (FIG. A)

Insert pumptube through support bracket and follower until the end of pumptube rests on pressure primer base. Tighten the three follower screws and the pump support securely.

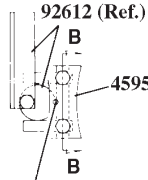
APPLICATION CHART

MODELS	PUMPTUBE TYPE	PRESSURE PRIMER	FOLLOWER	MOUNTING BRACKET
1718	Pile Driver	83790	84823	84392
2718	Pile Driver III	83790	84823	84784
1701	ALL Power Master	83790	84043	—

MODEL 83790 (SERIES "J")



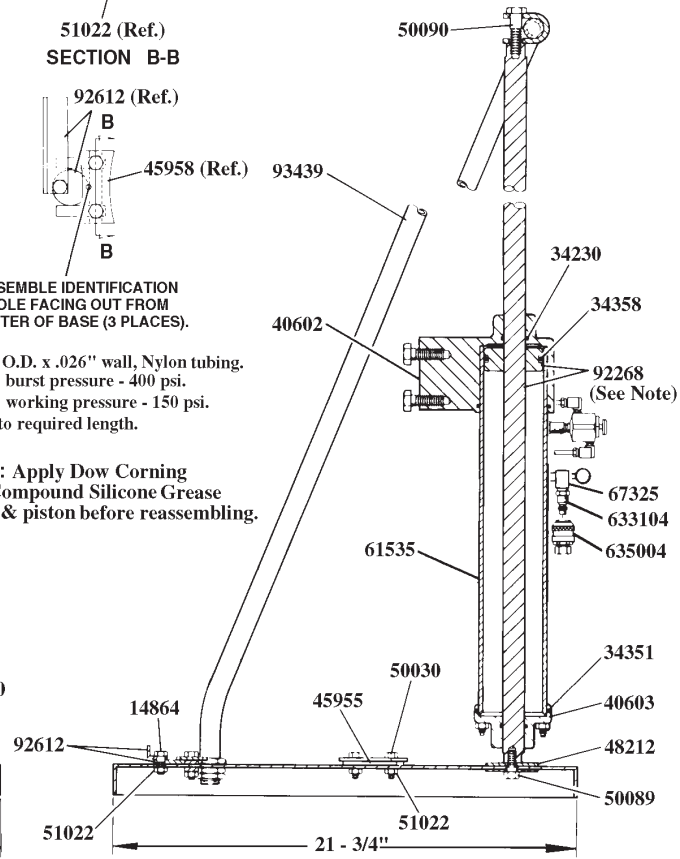
SECTION B-B



ASSEMBLE IDENTIFICATION HOLE FACING OUT FROM CENTER OF BASE (3 PLACES).

**1/8" O.D. x .026" wall, Nylon tubing.
Min. burst pressure - 400 psi.
Min. working pressure - 150 psi.
Cut to required length.

NOTE: Apply Dow Corning #111 Compound Silicone Grease to rod & piston before reassembling.

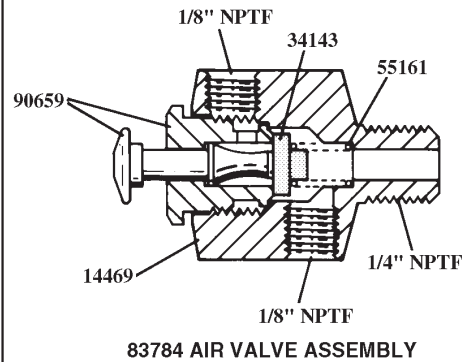
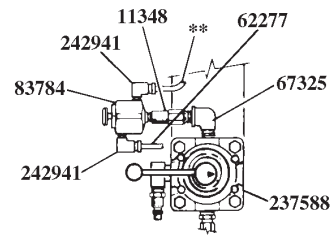
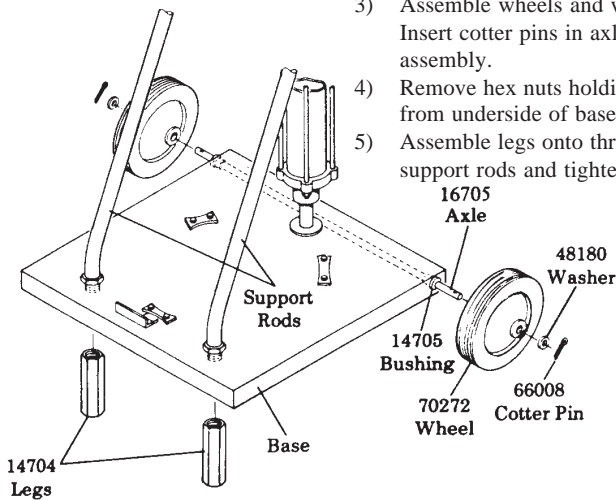


ACCESSORY

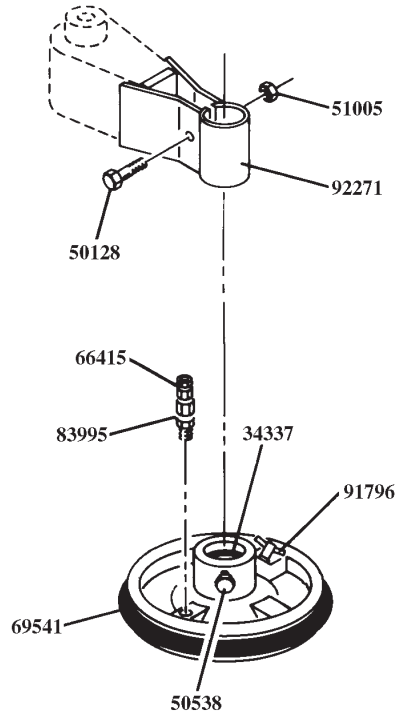
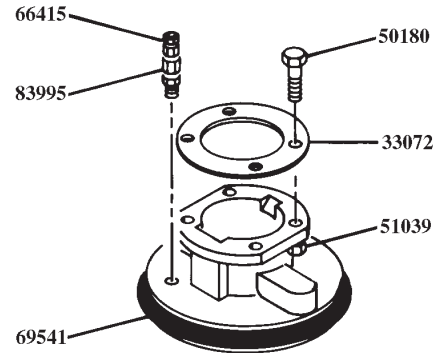
MODEL 83943 PORTABILITY KIT

FOR CONVERTING MODELS 1701, 1718 AND 2718 INTO PORTABLE UNITS.

- 1) Insert bushings in holes in side of base.
- 2) Insert axle through the bushings and base.
- 3) Assemble wheels and washers to axle. Insert cotter pins in axle to complete assembly.
- 4) Remove hex nuts holding support rods from underside of base.
- 5) Assemble legs onto threaded ends of support rods and tighten securely.



83784 AIR VALVE ASSEMBLY

MODEL 84043**MODEL 84823****RETAIN THIS INFORMATION FOR FUTURE REFERENCE**

When ordering replacement parts, list: Part Number, Description, Model Number and Series Letter.
LINCOLN provides a Distributor Network that stocks equipment and replacement parts.

SERVICE PARTS

Part	Qty.	Description	Part	Qty.	Description	Part	Qty.	Description
10461	1	Bushing	48212	2	Washer	*69541	1	Follower ring (Neoprene)
11348	1	Outlet adapter	50006	4	Screw	70272	2	Wheel
14466	4	Tie rod	50030	6	Bolt	83784	1	Air valve assembly
14469	1	Valve body	50051	4	Screw	83790	1	5 gallon pressure primer
14704	2	Leg	50070	2	Screw	83995	1	Line check
14705	2	Bushing	50089	1	Screw	84823	1	Follower assembly
14864	1	Cam bolt	50090	1	Screw	84043	1	Follower assembly
14877	2	Spacer	50128	1	Screw	90659	1	Valve assembly
16705	1	Axle	50180	4	Screw	91796	1	Tee handle plug
*33072	1	Follower gasket	50538	3	Screw	92268	1	Piston & piston rod assembly
*34143	1	Packing (Buna-N)	51005	1	Nut	92271	1	Bracket assembly
*34230	2	O-ring (Buna-N)	51022	7	Nut	92612	1	Cam assembly
*34337	2	O-ring (Buna-N)	51026	4	Nut	93383	1	Support bracket
*34351	2	O-ring (Buna-N)	51039	4	Nut	93439	1	Support tube & bracket assembly
*34358	1	O-ring (Buna-N)	51072	6	Nut	237588	1	Four-way valve
40602	1	Support casting	51412	4	Nut	237869	1	Bracket
40603	1	Cylinder end	*55161	1	Check spring	242941	4	90° tube connector
45955	4	Clamp base	61535	1	Tube	242944	1	Tube connector
45958	3	Clamp top	62277	1	Tube (21" long)	633104	1	Air nipple
46008	1	Base	66008	2	Cotter pin	635004	1	Air coupler
48180	2	Washer	67325	2	Street ell			

* Recommended service parts inventory

OPERATION

IMPORTANT: Be sure Four-Way valve handle is in the center position before attaching air supply line to Pressure Primer.

1. Move valve handle to the "counter-clockwise" (raise position). This lifts the pump high enough that a container of material may be positioned beneath the pump and the follower. Place container on base between the three lock-down clamps and turn the cam assembly to clamp container securely in place.
2. Remove the Vent Plug from the follower (on Model 1701) or the probe from the bottom flange of the pump (on Models 1718 & 2718).
3. Move the handle to the "clockwise" (lower position). This relieves air pressure from the top of the air cylinder and directs it to the bottom of the cylinder. Pump and follower lower into the container and apply pressure priming force on top of the material in the container. This forces any air which may be trapped beneath the follower to escape through the vent plug or probe opening. Replace the vent plug or probe. When material is being pumped, the valve handle should be left in the "clockwise" (lower position) to assist the pumping action. However, the air pressure should be held below the point that would be required for a heavier material than for a lighter material.

NOTE:

The Pressure Primer can be stopped in any position by moving the Four-Way Valve handle to the "center" position. If the valve handle is moved to the "center" position when the Pressure Primer is in the raised position, the air line can be removed and the Pressure Primer will remain up. The valve handle should always be moved to the "center" position when Pressure Primer is not in use.

TO PRIME PUMP

Open bleeder plug in pump outlet body. Connect air supply line to airmotor to start pump operating. Four-way valve handle of pressure primer should be in the "clockwise" (lower position). Continue operating pump until material flows from bleeder plug opening. Disconnect air supply line from airmotor to shut off pump and tighten bleeder plug. Connect air supply line to airmotor again and open control valve at the end of the delivery hose. Continue operating pump until material flows freely from control valve. Pump is now fully primed. If material does not flow freely, it is an indication that an air pocket may be trapped in the follower casting cavity. Remove vent plug from the follower (Model 1701) or probe (Model 1718 & 2718) to expel air pocket.

TO REMOVE EMPTY CONTAINER

The models have an air assist valve to aid in withdrawing the follower from the container. Leave the vent plug or probe screwed in, move the valve handle to the "counter-clockwise" (raise position) to raise the unit at the same time manually depress the button of the air assist valve to direct air beneath the follower. The lock-down clamps hold container, permitting the follower to be pulled free.

MATERIAL AGITATION

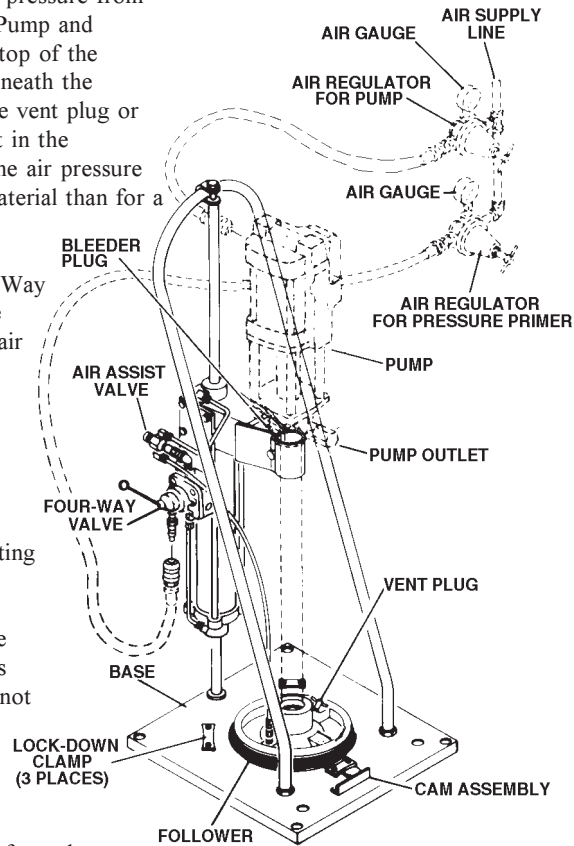
Some materials may require agitation.

On Model 1701 remove pipe plug from side of pump outlet body and Follower (See Fig. C).

On Model 1718 & 2718 remove bleeder valve from pump outlet body and plug from the bottom flange of pump (see Fig. D).

Install shut-off valve into pump outlet body. Install connecting hose from shut-off valve to follower (on Model 1701) or from shut-off valve to bottom flange of pump (on Model 1718 & 2718).

Shut-off valve is closed when dispensing materials. Shut-off valve is opened, with control valve closed for agitating materials.



MODEL 1701

