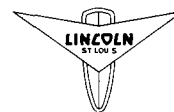


PRESSURE PRIMER (PILE DRIVER) FOR 30 GAL. FIBRE DRUM



Model 1723

Series "A"

SPECIFICATIONS

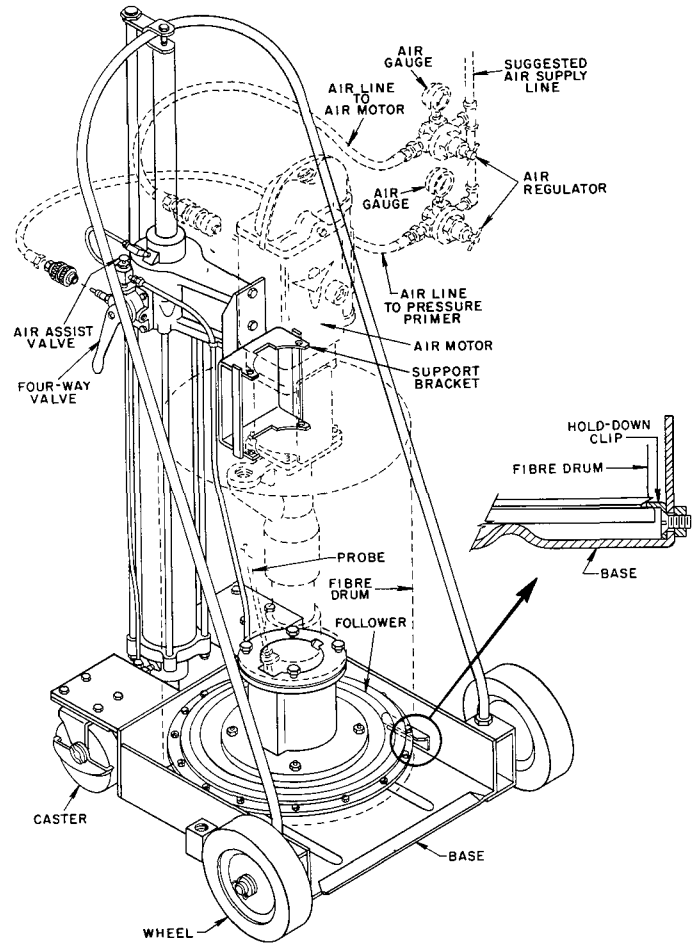
Size — 32½" length x 31¼" width x 71¼" height.
Elevator travel — 30"
Operating air pressure — 30-200 PSIG.
Normal air pressure required for pressure primer - 40 PSIG.
Normal air pressure required for follower extraction—40PSIG.

DESCRIPTION

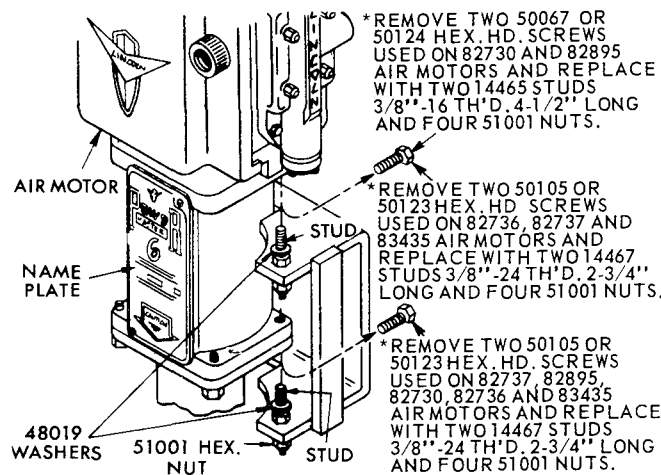
Model 1723 is designed to accommodate the 2100 Series Pile Driver Pumps. It consists of a base, an elevator and an air assist follower. The unit has two wheels on the front and two casters with foot lever brakes on the rear. The rear wheel brakes are for anchoring the Pressure Primer when a 30-gallon drum is pushed onto the base. Two small angles bolted inside of the center of the sides of the base serve as hold-down clips for the drum, fitting into the groove around the base of the fibre drum. The three sides of the base, plus the hold-down clips, also serve the purpose of lining up the center of the drum with the center of the follower automatically when the drum is pushed onto the unit.

A four-way valve is provided for directing the flow of compressed air when operating the unit. Forward position of the valve handle provides lowering, back position provides lift and with the handle on center, no motion or air escape exists.

A support bracket is provided for the mounting of the Pile Driver Pump to be used with this unit. The casting of follower bolts directly on the bottom flange of the pump.



TO MOUNT PILE DRIVER PUMP TO SUPPORT BRACKET



Remove the Hex. Hd. screws from the Air Motor as illustrated and replace with the studs and nuts that are furnished with the Model 1723 Pressure Primer.

* **NOTE:** Because of the different lengths and thread sizes of these studs, it is important that the proper studs are selected when bolting the Pile Driver Pump to the support bracket. In all installations, the studs should be installed on the side of the Air Motor opposite the name plate. Use washers on studs as needed to fill gaps.

Bolt the follower to the bottom flange of the pump with the screws and nuts provided and tighten securely. An opening in the follower casting is provided for the probe used with these pumps.

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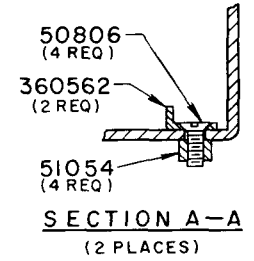
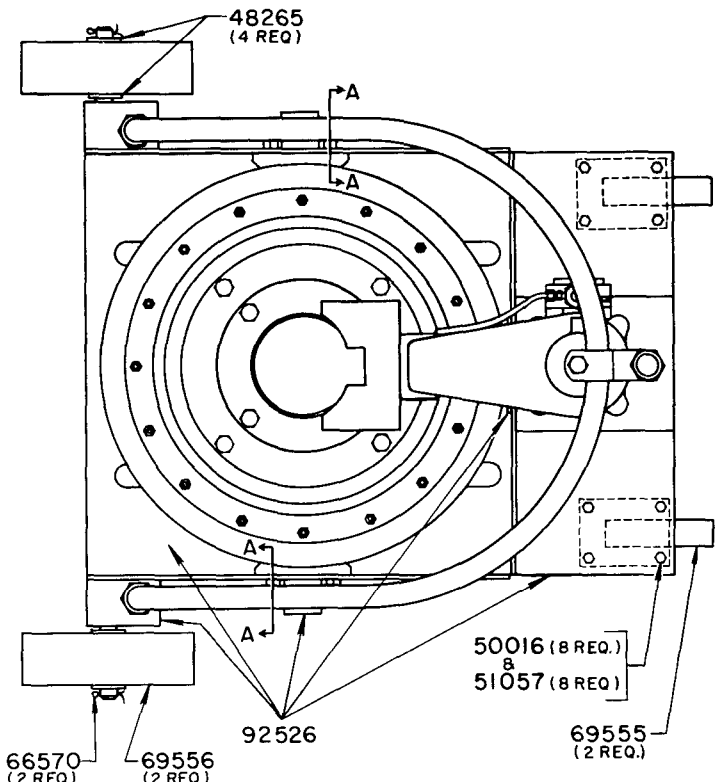
A DIVISION OF
McNEIL
CORPORATION

SECTION — **A34**

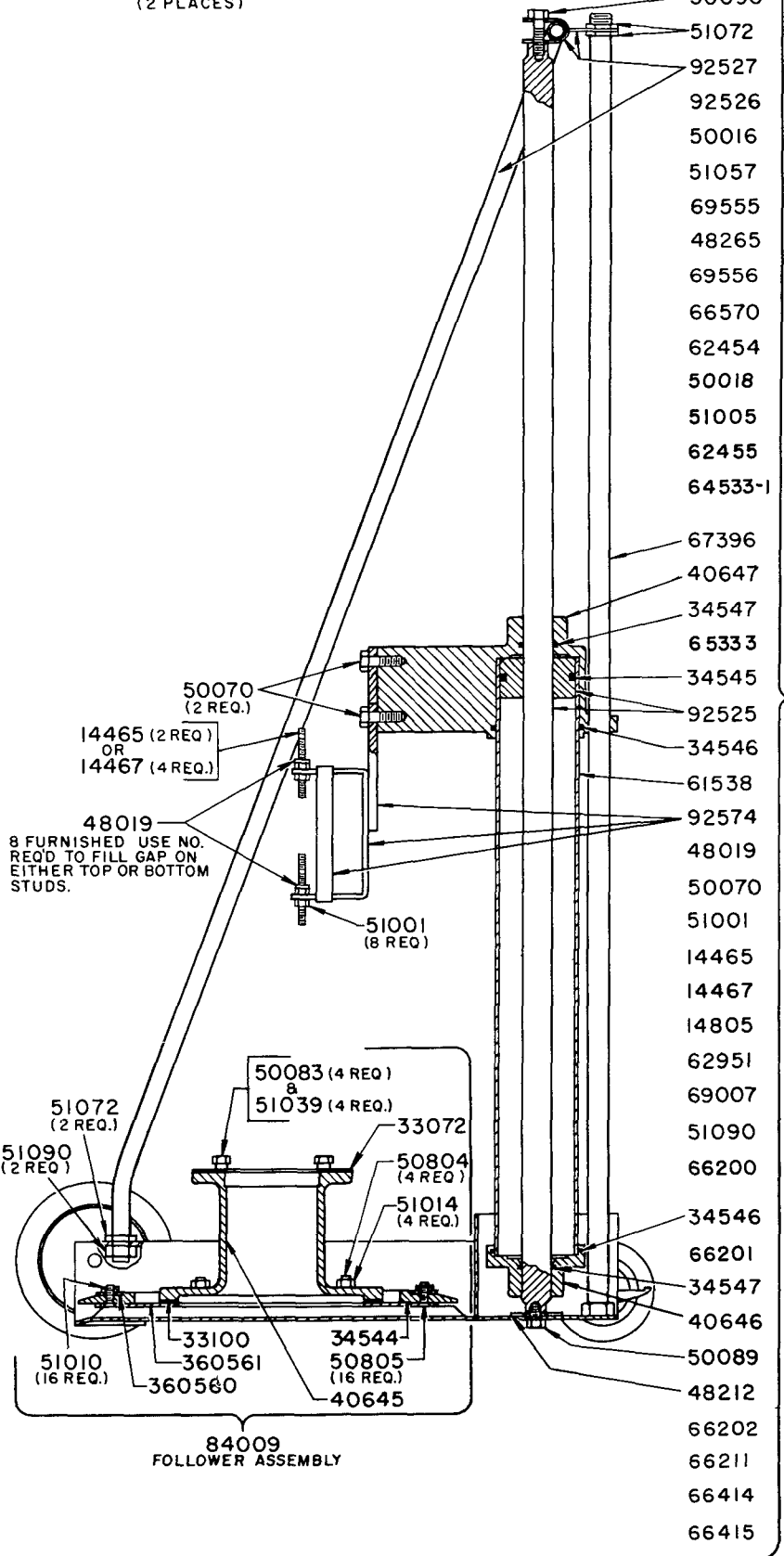
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REPAIR PARTS LIST

| Part No. | Description | Part No. | Description |
|----------|------------------|----------|-------------------------------------|
| 14465 | Stud | 51090 | Nut |
| 14467 | Stud | 61538 | Tube |
| 14805 | Tie Rod | 62454 | Tube |
| 33072 | Follower Gasket | 62455 | Tube |
| 33100 | Follower Gasket | 62951 | Nylon Tubing |
| 34544 | Wiper | 64533-1 | Tubing Clip |
| 34545 | O-Ring | 65333 | Name Plate |
| 34546 | O-Ring | 66200 | Male Tube Connector |
| 34547 | O-Ring | 66201 | Male Elbow Tube Connector |
| 40645 | Follower Casting | 66202 | Self Tapping Screw |
| 40646 | Cylinder End | 66211 | Male Tube Connector |
| 40647 | Support | 66414 | Male Elbow Tube Connector |
| 48019 | Washer | 66415 | Male Tube Connector |
| 48212 | Washer | 66570 | Cotter Pin |
| 48265 | Washer | 67396 | Tube |
| 50016 | Screw | 69007 | Four-Way Valve |
| 50018 | Screw | 69555 | Caster |
| 50070 | Screw | 69556 | Wheel |
| 50083 | Cap Screw | 83784 | Air Valve Assembly |
| 50089 | Screw | 83995 | Line Check |
| 50090 | Screw | 84009 | Follower Assembly |
| 50804 | Screw | 84011 | Pressure Primer & Elevator Assembly |
| 50805 | Screw | 92525 | Piston & Rod Assembly |
| 50806 | Screw | 92526 | Base Assembly |
| 51001 | Nut | 92527 | Support Tube & Bracket Assembly |
| 51005 | Nut | 92574 | Support Bracket Assembly |
| 51010 | Nut | 360560 | Upper Wiper Ring |
| 51014 | Nut | 360561 | Lower Wiper Ring |
| 50139 | Nut | 360562 | Hold-Down Clip |
| 51054 | Nut | 630104 | Plug |
| 51057 | Nut | 632004 | Socket |
| 51072 | Nut | | |



- 632004
- 630104
- 83784
- 83995
- 50090
- 51072
- 92527
- 92526
- 50016
- 51057
- 69555
- 48265
- 69556
- 66570
- 62454
- 50018
- 51005
- 62455
- 64533-1
- 67396
- 40647
- 34547
- 65333
- 34545
- 92525
- 34546
- 61538
- 92574
- 48019
- 50070
- 51001 (8 REQ)
- 14465 (2 REQ) OR 14467 (4 REQ)
- 48019 (8 FURNISHED USE NO. REQ. TO FILL GAP ON EITHER TOP OR BOTTOM STUDS.)
- 51072 (2 REQ.)
- 51090 (2 REQ.)
- 50083 (4 REQ) & 51039 (4 REQ.)
- 33072
- 50804 (4 REQ.)
- 51014 (4 REQ.)
- 34546
- 66201
- 34547
- 40646
- 50089
- 48212
- 66202
- 66211
- 66414
- 66415



© INDICATES CHANGE

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 "back" position. This lifts the pump high enough so that a drum of material may be positioned beneath the pump and follower. Drum is located and held in place by the two hold-down clips.
2. Remove probe from the bottom flange of the pump.
3. Move the valve handle to the forward 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 drum and apply pressure priming force on top of the material in the drum. This forces any air which may be trapped beneath the follower to escape through the probe opening. Replace the probe. When material is being pumped, the valve handle should be left in the forward (lower) position to assist the pumping action. However, the air pressure should be held below the point that would cause the wiper ring to bypass the material in the drum. More pressure 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. Connect air supply line to air motor to start pump operating. Four-way valve handle of Pressure Primer should be in the "forward" position. Continue operating pump until material flows from bleeder plug opening. Disconnect air supply line from air motor to shut off pump and tighten bleeder plug. Connect air supply line to air motor again and open control valve at the end of 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. Use probe to remove air pocket.

TO REMOVE EMPTY DRUM

When material drum is empty, remove the probe from the bottom flange of the pump and move four-way valve handle to the "back" position, raising the pumping unit and withdrawing the follower from the drum. A second and superior way of removing the follower from the drum is to leave the probe screwed in, move the valve handle to the "back" position to raise the pumping unit and at the same time manually depress the button of the air assist valve to direct air beneath the follower. It is very important that the fibre drum bottom is firmly held by the angle hold-down clips so that the air assist pressure may not rupture and blow out the bottom of the drum. An advantage of this method is that the material which is in the follower casting cavity is not disturbed and less material is left in the drum.

MATERIAL AGITATION

Some materials may require agitation. Remove bleeder valve from pump outlet body and install a shut-off valve. Remove pipe plug from bottom flange of pump and install other end of hose into this threaded hole. To agitate material, shut-off valve is opened with control valve closed. Shut-off valve is closed when dispensing material.

