

DESCRIPTION

The 7149-4 series of Alemite Bucket Pumps are designed to deliver lubricant to bearings of off the road equipment with various types of grease fittings.

These pumps develop from 2500 to 5000 psi, delivering about 1/3 ounce per stroke with the lever attached to pump in the normal center position. The lubricant container has a capacity of 35 pounds.

See chart below for the various models in the 7149-4 series which are covered by this instruction sheet.

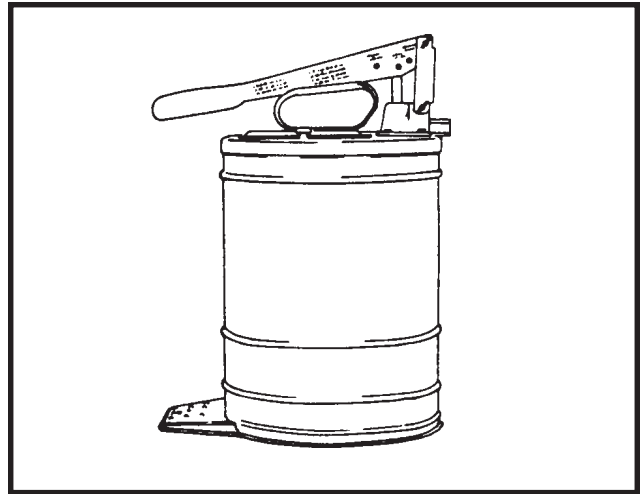


Figure 1: Model 7149-A4 Bucket Pump

MODEL CHART

MODEL	PAGE	COMPONENTS IN ADDITION TO 7149-4 BUCKET PUMP	
7149-A4		322434	Hose Assembly
7149-C4		6617-G	Hydraulic Coupler and Hose Assembly
7149-D4		317854-5F 43706 A-112 A-336 50491 171134	Hose Angle Body Bushing Pin-Type Fitting Coupler Plug Button
7149-E4		6616-G A-1188 171134	Hose and Coupler Assembly Button Head Fitting Plug Button
7149-F4		6615-G 171134 322108	Hose and Coupler Assembly Plug Button Button Head Fitting
7149-H4		322434 322630	Hose Assembly Loader Kit

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ASSEMBLY

To assemble the basic Bucket Pump Model 7149-4, proceed as follows: (See Figure 2)

1. Attach link 322092-7 to pump body 322115-6 with pin 322109-2 and secure with cotter pin 172212-14.
2. Attach lever 322418-2 to link with other pin and secure with cotter pin.

3. Attach lever to pump plunger with stud 322423 and wingnuts 79882 through one of the three holes provided (see adjustment instructions on page 6).

4. See further instructions for specific model.

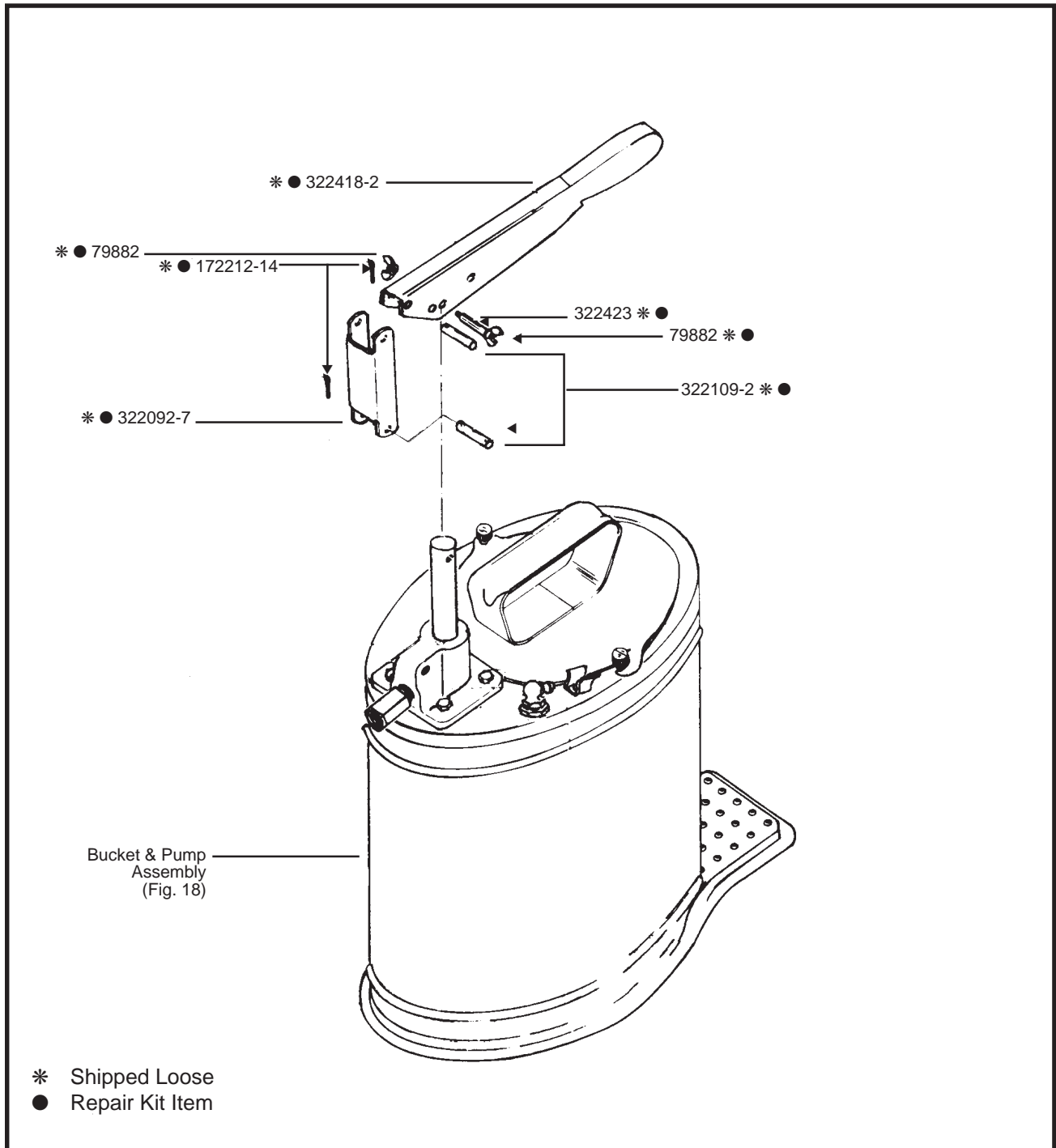


Figure 2: Components of Model 7149-A4 Bucket Pump

MODEL 7149-A4:
(Figures 3 and 4)

Thread hose assembly 322434 into check valve 317210 and tighten.

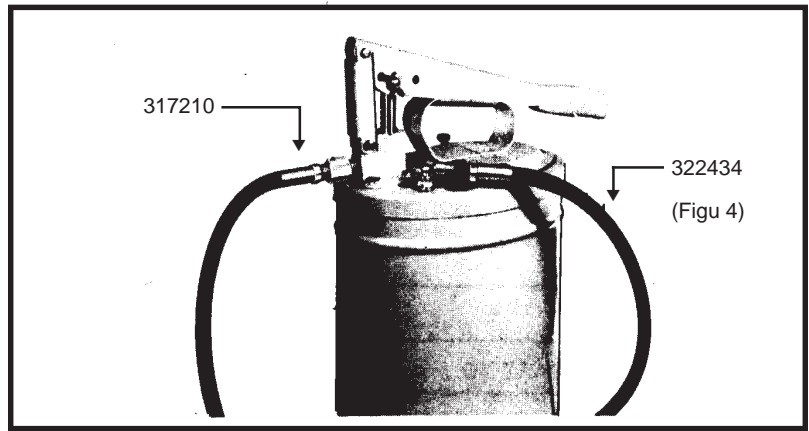


Figure 3: Model 7149-A4 Bucket Pump

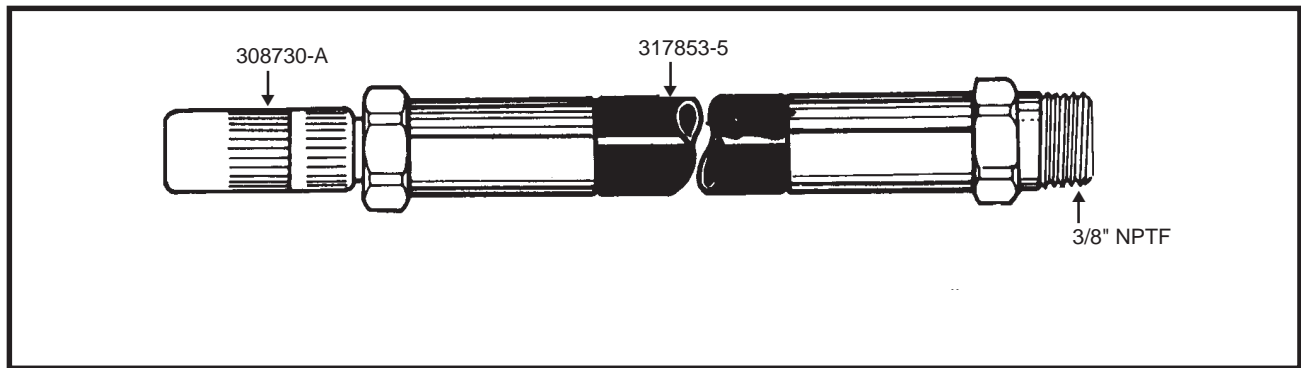


Figure 4: Model 322434 Hose Assembly (for Models 7149-A4 and 7149-H4)

MODEL 7149-C4:
(Figures 5 and 6)

Thread hydraulic coupler and hose assembly 6617-G into check valve 317210 and tighten.

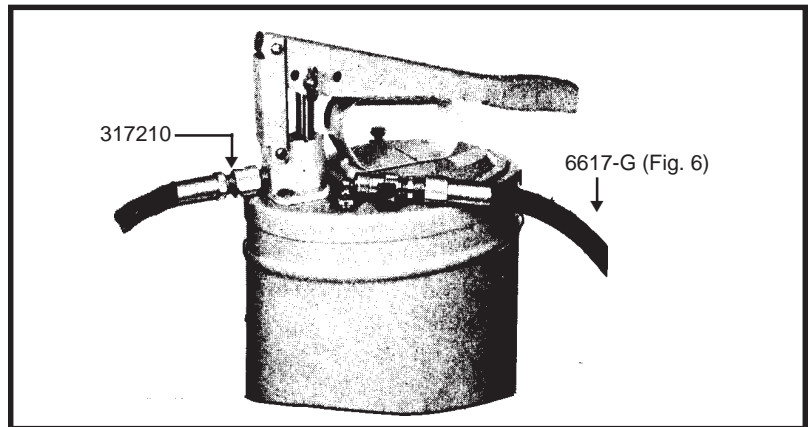


Figure 5: Model 7149-C4 Bucket Pump

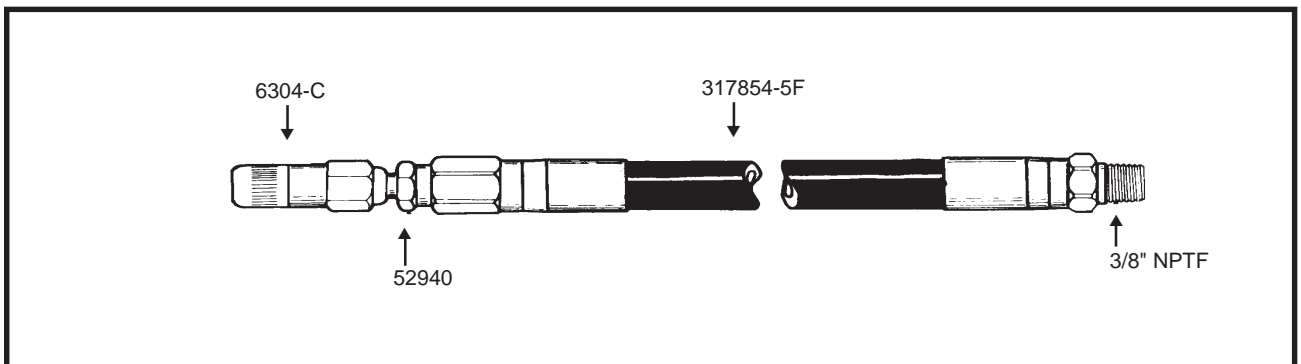


Figure 6: Model 6617-G Hydraulic Coupler and Hose Assembly (for Model 7149-C4)

MODEL 7149-D4:

(Figures 7 and 8)

1. Unthread the 1/8" NPT hydraulic fitting 311199 from bushing A-112. Thread angle body 43706 into bushing and pin type fitting A-336 into angle body.

2. Remove hose clip 322576, screw 170343, lockwasher 172207-1 and nut 77650 from container and replace with plug button 171134.

3. Assemble hose 317854-5F, bushing A-112 and coupling assembly 50491 as shown in Figure 8.

Screw hose and coupling assembly into check valve 317210 and tighten.

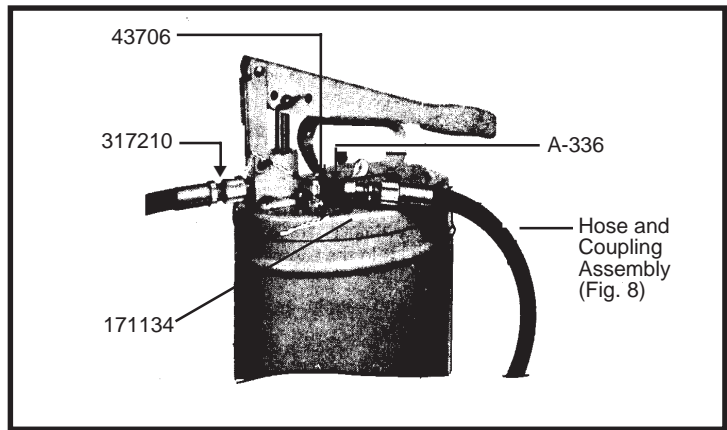


Figure 7: Model 7149-D4 Bucket Pump

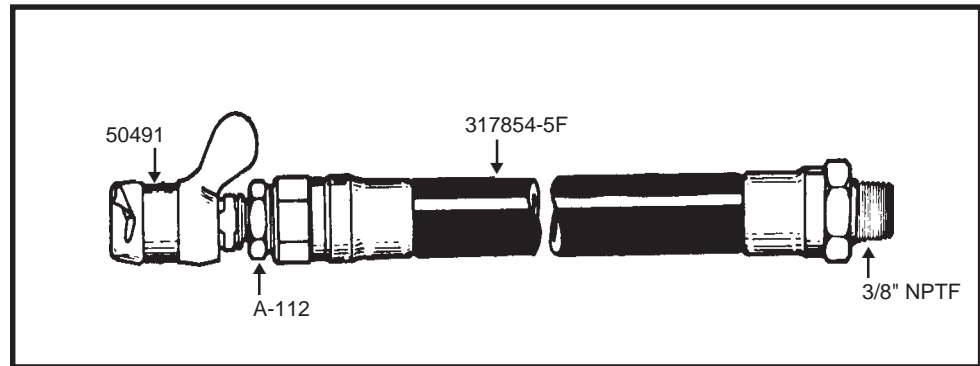


Figure 8: Hose and Coupling Assembly (for Model 7149-D4)

MODEL 7149-E4:

(Figures 9 and 10)

1. Remove hose clip 322576, screw 170343, lockwasher 172207-1 and nut 77650 from container and replace with plug button 171134.

2. Unthread bushing A-112 with hydraulic fitting 311199 from container and replace with button head fitting body A-1188.

2. Thread hose and coupler assembly 6616-G into check valve 317210.

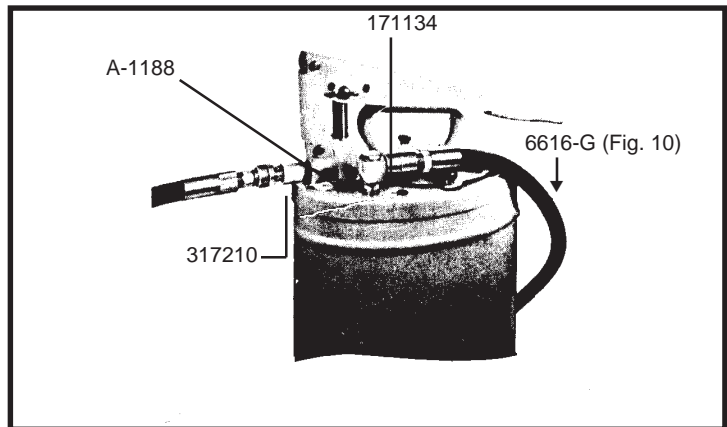


Figure 9: Model 7149-E4 Bucket Pump

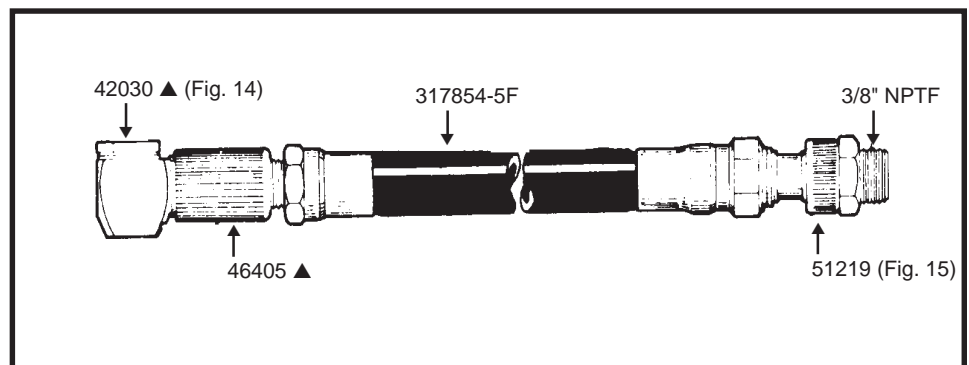


Figure 10: Model 6616-G Hose and Coupling Assembly (for Model 7149-E4)

MODEL 7149-F4:
(Figures 11 and 12)

1. Unthread bushing A-112 and hydraulic fitting 311199 from container and replace with button head fitting plug 322108.

2. Remove hose clip 322576, screw 170343, lockwasher 172207-1 and nut 77650 from container and replace with plug button 171134.

3. Thread hose and coupler assembly 6615-G into check valve 317210.

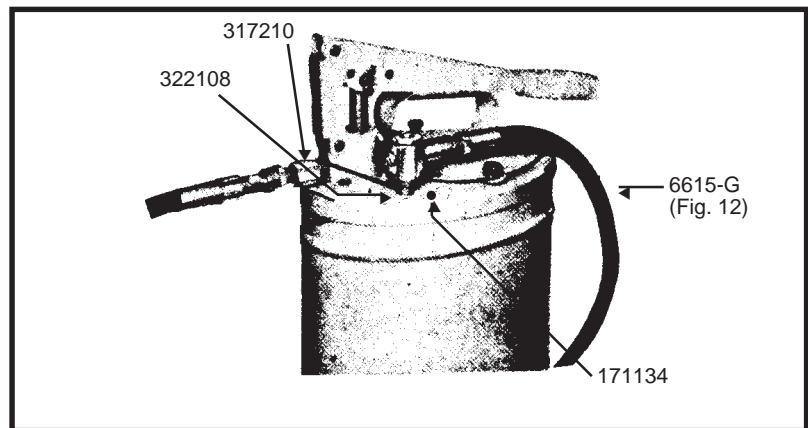


Figure 11: Model 7149-F4 Bucket Pump

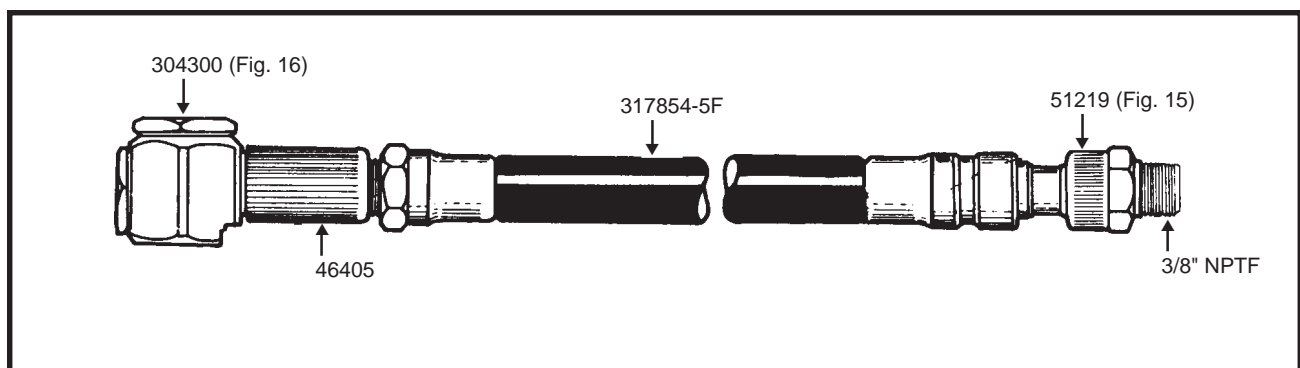


Figure 12: Model 6615-G Hose and Giant Coupler Assembly (for Model 7149-F4)

MODEL 7149-H4:
(Figures 13 and 18)

1. Thread loader adapter 322989 into check valve 317210.

2. Thread loader valve 306741 into loader adapter.

3. Thread hose assembly 322434 into loader adapter.

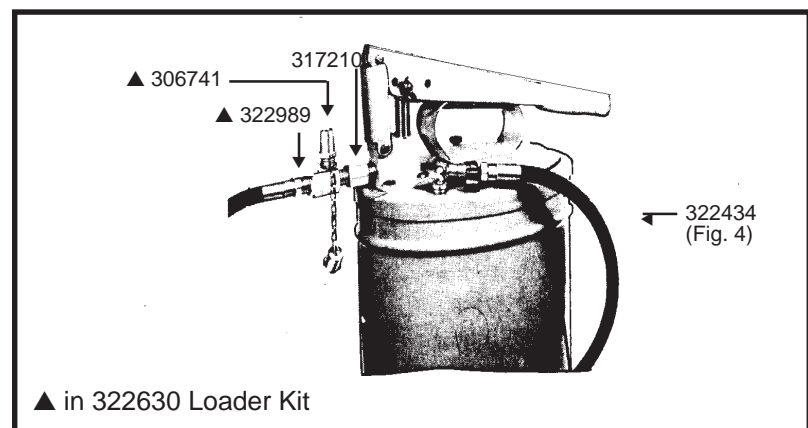


Figure 13: Model 7149-H4 Bucket Pump

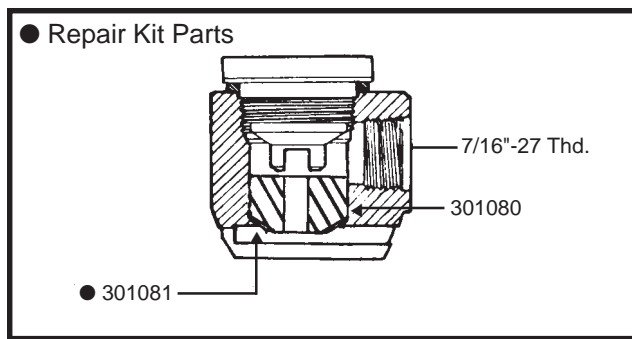


Figure 14: Model 42030 Standard Button-Head Coupler

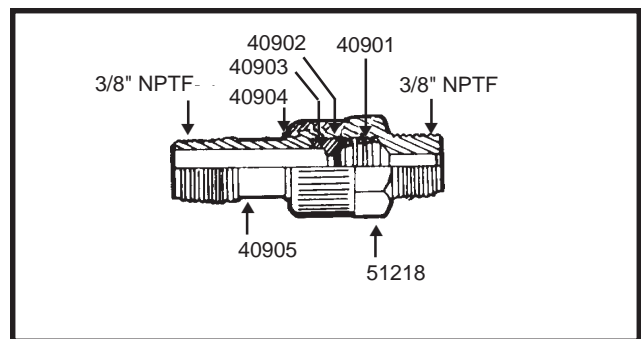


Figure 15: Model 51219 Hose Swivel

OPERATION

TO FILL CONTAINER:

1. Raise lever and wipe off top of container.
2. Loosen knurled thumb screws and slide cover to one side.
3. Fill container with lubricant, being careful that no air pockets are formed.

TO USE:

1. Check condition of hose and check to see that all connections are secure.
2. Set lever at appropriate position (See Figure 17).
 - A. for light weight lubricants and warm temperatures.
 - B. for lubricants of medium thickness.
 - C. for cold weather and/or thick lubricants.

(To change positions remove wing nut 79882 and slide pin 322423 with other wing nut still attached into alternate hole.)

3. Wipe fitting and coupler and place coupler on fitting.
4. Pump lubricant into bearing. Remove coupler.
5. Wrap hose around bucket and attach coupler to fitting on top of container. On most models, this fitting serves as a pressure release and allows excess lubricant to run back into container.

IF PUMP FAILS TO BUILD UP PRESSURE OR DELIVER LUBRICANT:

1. Check to see if lubricant level is low or if air

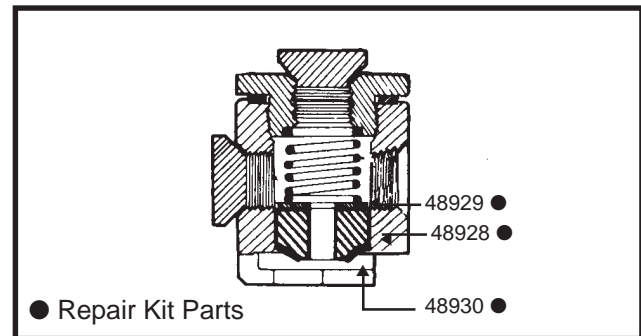


Figure 16: Model 304300 Giant Button-Head Coupler

- pockets have developed allowing air to enter pump.
2. Check hose and connection for leaks.
3. If pressure still fails to build up, pump must be overhauled with Major Repair Kit 398724, or replaced.

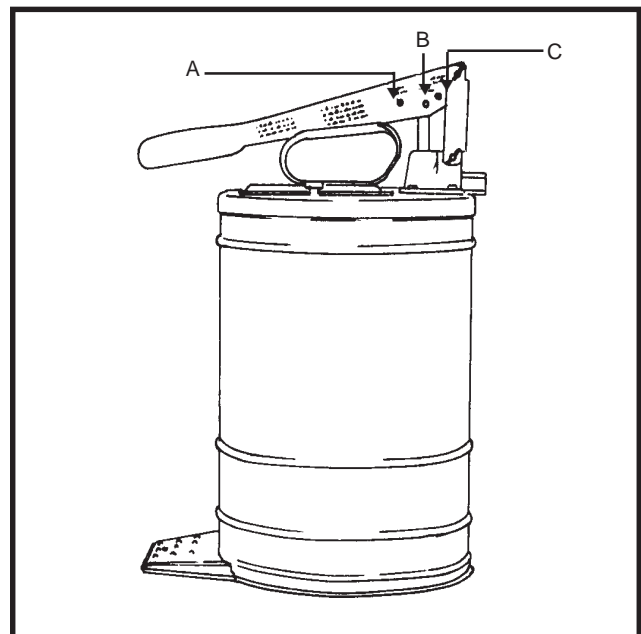


Figure 17: Lever Positions for Lubricants in Bucket Pump

SERVICE**DISASSEMBLY:**

(Figures 2 and 18)

1. Remove wingnut 79882 from stud 322423 and remove stud from lever 322418-2 and plunger 337417-1.
2. Remove cotter pins 172212-14 and pins 322109-2 from lever and link 322092-7, allowing lever and link to be removed.
3. Unscrew knobs 322425 and remove cover 322110-6.
4. If gasket 50784 is to be replaced, pull off gasket and scrape mating surface of container 322100-6 clean. When reassembling, gasket should be cemented to container with suitable gasket cement.
5. Remove check valve 317210 from pump body 322115-6.

6. Unscrew four hex head cap screws 77786 and remove pump assembly from container.

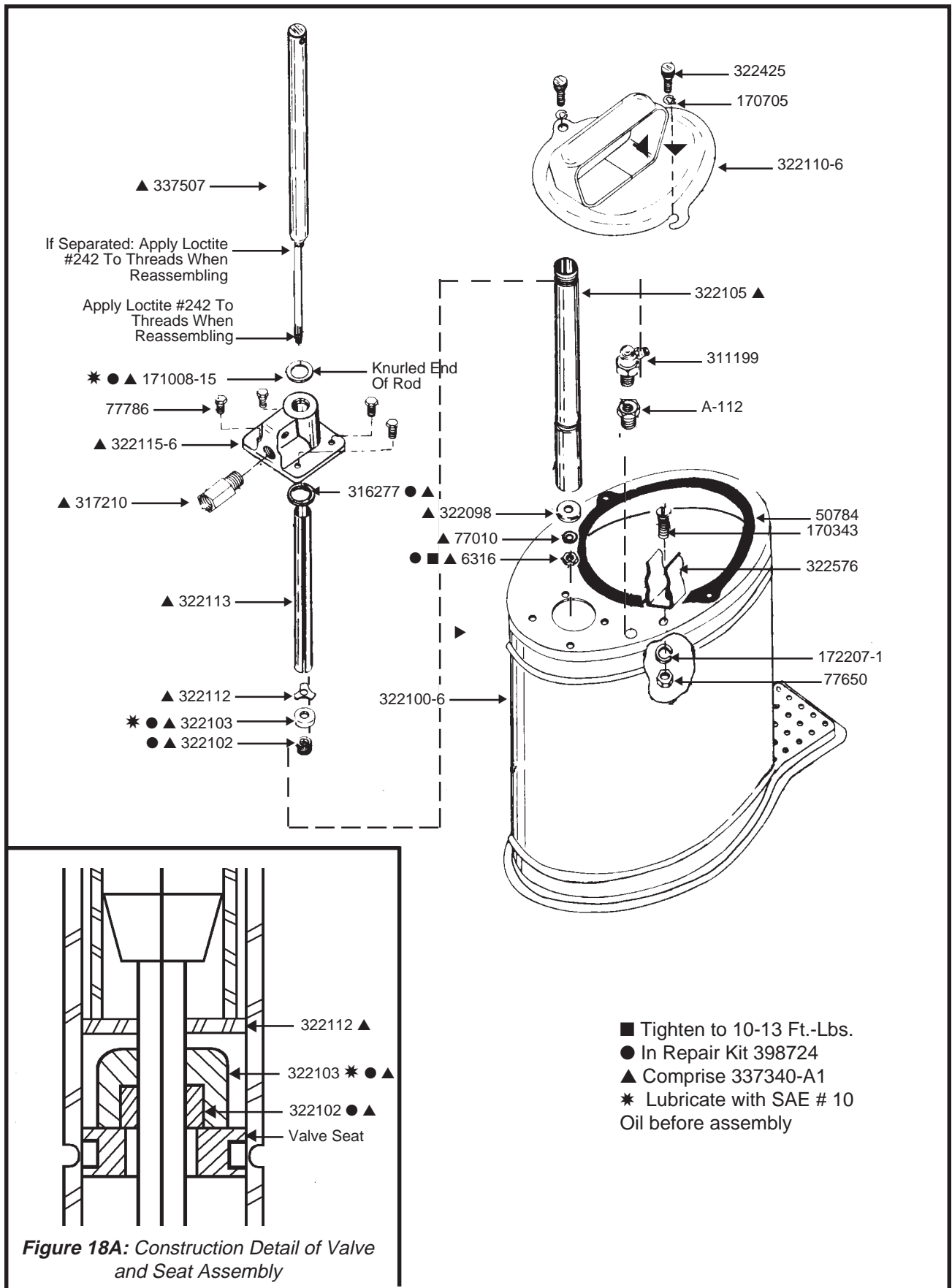
7. Remove nut 6316, lockwasher 77010 and cup 322098 from Rod 337418.

8. Unscrew pump tube 322105 from pump body and remove aluminum gasket 316277, stop tube 322113, washer 322112, valve 322103 and sleeve 322102 from rod. Note that end of stop tube with four holes goes nearest pump body.

9. Pull plunger and rod up from pump body and remove rubber quad ring 171008-15 from groove in bore of pump body. Handle carefully to avoid scratches or nicks on plunger or bore of pump body.

REASSEMBLY:

To reassemble, reverse the above procedure, being certain that plunger, quad ring, valve and sleeve are well lubricated with light grease and that valve and quad ring are not damaged during installation.



Major Repair Kit

398724 For 7149-4 Series Bucket Pumps		
Part No.	Description	Qty.
171008-15	Quad Ring, 3/4" I.D. x 1" O.D.	2
172212-14	Cotter Pin, 3/32" x 5/8" long	3
316277	Aluminum Gasket, 1-1/16" O.D.	1
322102	Sleeve	1
322103	Valve	1
6316	Nut, Hex, 5/16" - 24	1

Minor Repair Kits

398726 For 304300 Giant Button-Head Coupler		
Part No.	Description	Qty.
48928	Rubber Seal, 11/16" O.D.	10
48929	Flat Washer, 11/16" O.D.	10
48930	Cone Washer, 11/16" O.D.	10

398727 For 42030 Standard Button-Head Coupler		
Part No.	Description	Qty.
301080	Rubber Seal, 9/16" O.D.	10
301081	Flat Washer, 9/16" O.D.	10

PARTS LIST - Model 7149-A4 Bucket Pump (Figures 3 and 4)		
Part No.	Description	Qty.
* 7149-4	Bucket Pump Assembly	1
▲ 308730-A	Hydraulic Coupler	1
▲ 317853-5	Hose	1
322434	Hose Assembly	1
* See separate parts list		
▲ Included in Hose Assembly 322434		

PARTS LIST - Model 7149-C4 Bucket Pump (Figures 5 and 6)		
Part No.	Description	Qty.
▲ 6304-C	Hydraulic Coupler	1
6617-G	Hose & Coupler Assembly	1
* 7149-4	Bucket Pump Assembly	1
▲ 52940	Adapter	1
▲ 317854-5F	Hose	1
* See separate parts list		
▲ Included in Hose Assembly 6617-G		

PARTS LIST - Model 7149-D4 Bucket Pump (Figures 7 and 8)

Part No.	Description	Qty.
A-112	Bushing	1
A-336	Pin-Type Fitting	1
* 7149-4	Bucket Pump Assembly	1
43706	Angle Body	1
50491	Coupler	1
171134	Plug Button	1
317854-5F	Hose	1

* See separate parts list

PARTS LIST - Model 7149-E4 Bucket Pump (Figures 9 and 10)

Part No.	Description	Qty.
A-1188	Button-Head Fitting	1
6616-G	Hose & Coupler Assembly	1
* 7149-4	Bucket Pump Assembly	1
▲ 42030	Button-Head Coupler (Figure 14)	1
▲ 46405	Check Valve	1
▲ * 51219	Hose Swivel (Figure 15)	1
171134	Plug Button	1
● ▼ 301080	Rubber Seal, 9/16" O.D.	1
● ▼ 301081	Flat Washer, 9/16" O.D.	1
▲ 317854-5F	Hose	1

● Repair Kit Part

* See separate parts list

▲ Included in Hose & Coupler Assembly 6616-G

▼ Included in Button-Head Coupler 42030

PARTS LIST - Model 7149-F4 Bucket Pump (Figures 11 and 12)

Part No.	Description	Qty.
6615-G	Hose & Coupler Assembly	1
* 7149-4	Bucket Pump Assembly	1
▲ 46405	Check Valve	1
● ▼ 48928	Rubber Seal, 11/16" O.D.	1
● ▼ 48929	Flat Washer, 11/16" O.D.	1
● ▼ 48930	Cone Washer, 11/16" O.D.	1
▲ * 51219	Hose Swivel (Figure 15)	1
171134	Plug Button	1
▲ 304300	Giant Button-Head Coupler (Figure 16)	1
▲ 317854-5F	Hose	1
322108	Button-Head Fitting Plug	1

● Repair Kit Part

* See separate parts list

▲ Included in Hose Assembly 6615-G

▼ Included in Giant Button-Head Coupler 304300

PARTS LIST - Model 7149-H4 Bucket Pump (Figures 13 and 14)

Part No.	Description	Qty.
* 7149-4	Bucket Pump Assembly	1
▼ 306741	Loader Valve	1
▲ 308730-A	Hydraulic Coupler	1
▲ 317853-5	Hose	1
322434	Hose Assembly	1
322630	Loader Kit	1
+ ▼ 322989	Loader Adapter	1
<p>* See separate parts list ▲ Included in Hose Assembly 322434 ▼ Included in Loader Kit 322630 + Not available as a separate purchased part</p>		

PARTS LIST - Model 7149-4 Bucket Pump Assembly (Figure 18)

Part No.	Description	Qty.
A-112	Bushing	1
50784	Large Oval Cork Gasket	1
77650	Hex Nut, 1/4-20	1
+ 170343	Screw, 1/4-20 x 7/16" long	1
170705	Retaining Ring	2
+ 172207-1	Lock Washer, 1/4" I.D.	1
+ 311199	Hydraulic-Fitting	1
322100-6	Shell Assembly	1
322110-6	Cover Assembly	1
322425	Knob	2
322576	Spring Clip	1
* 377340-A1	Pump-Tube Assembly	1
* +	Lever and Link Assembly (Figure 2)	1
<p>* See separate parts list + Not available as a separate purchased part</p>		

PARTS LIST - Model 337340-A1 Pump-Tube Assembly (Figure 18)

Part No.	Description	Qty.
+ 6316	Hex Nut, 5/16-24	1
+ 77010	Internal-Tooth Lock Washer, 5/16"	1
77786	Hex-Head Cap Screw, 1/4-20 x 1/2" long	4
● 171008-15	Quad Ring, 3/4" I.D. x 1" O.D.	1
● 316277	Aluminum Gasket, 1-1/16" O.D.	1
317210	Check Valve	1
322098	Cup	1
● 322102	Sleeve	1
● 322103	Valve	1
322105	Tube Assembly	1
322112	Three-Point Star Washer, 11/32" I.D.	1
322113	Tube	1

PARTS LIST - Model 337340-A1 Pump-Tube Assembly (Figure 18) (Continued)

Part No.	Description	Qty.
322115-6	Pump Body	1
337507	Rod Assembly	1

● Repair Kit Part
 + Not available as a separate purchased part

PARTS LIST - Lever and Link Assembly (Figure 2)

Part No.	Description	Qty.
79882	Wing Nut, 5/16-18	2
● 172212-14	Cotter Pin, 3/32" x 5/8" long	2
322092-7	Link	1
322109-2	Pin, 1-9/16" long	2
322418-2	Lever	1
322423	Stud, 1-19/32" long	1

● Repair Kit Part

PARTS LIST - Model 51219 Hose Swivel (Figure 15)

Part No.	Description	Qty.
+ 40901	Spring	1
+ 40902	Retaining Washer	1
+ 40903	Leather Cup	1
+ 40904	Swivel Nut	1
+ 40905	Swivel Stud	1
+ 51218	Adapter	1

+ Not available as a separate purchased part

NOTE: The parts listed in this instruction sheet are for reference identification in the instructions and illustrations. Some of them are not available as separate parts and these are noted in the parts list. Standard items such as nuts, bolts, etc. should be purchased at a hardware store. Refer to the current parts price list and bulletins before ordering parts, and always give the part number, quantity, description and model where used when ordering parts. Parts availability and prices are subject to change without notice.

PARTS CHANGES SINCE LAST PRINTING

Added Nut 6316 to Major Repair Kit 398724