

DESCRIPTION

The Model 8570-4 Portable, Low Pressure, Hand Operated Pump is designed to dispense gear lubrication from 120 lb. drums of the full or semi-open head type. A large knock-out opening holds the nozzle when not in use.

An automatic shut-off valve, located in the lower assembly, assures that the unit will not pump air when the container is empty.

A Model 3681 Gear Oil Meter measures the flow of lubricant. The meter has a reset pointer and is calibrated in 1/4 pints (to eight pints).

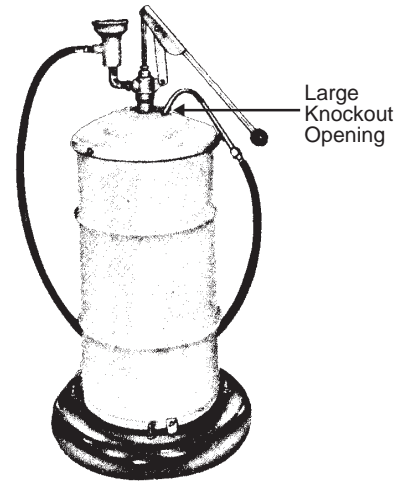


Figure 1: Model 8570-4 Gear Lubricant Pump

PREPARING FOR USE

1. Use pin 324739 and two cotter pins 43651 to fasten bracket-lever assembly 324726 to top of pump rod 328257-7 (Figure 3).

2. Use pin 324749 and two cotter pins 43651 to fasten link 324741 to body 328254-3 (Fig. 3).

NOTE: Make sure to bend cotter pins after insertion through pins.

3. Remove low level cutoff assembly 321285 and lower gasket 131472 by unscrewing adapter 324868

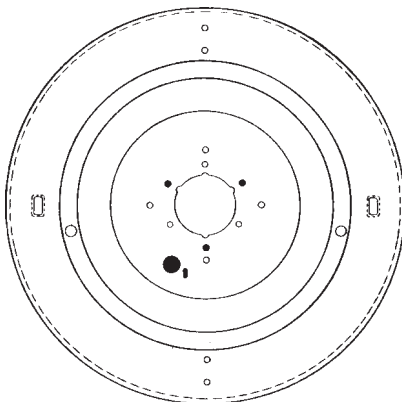


Figure 2: Cover Template for Knockout

from tube 324744-2 (Fig. 3).

4. Place cover and seal assembly 323496-A4 topside up on workbench (Fig. 4). Punch out knockout plugs corresponding to blackened holes in Fig. 2.

5. Slide cover and seal assembly onto tube 324744-2 until the top is flush with underside of body 328254-3 (Figures 3 and 4).

6. Align all holes and use three hex cap screws 77787, three lockwashers 172207-1 and three hex nuts 77650 to fasten cover and seal assembly to body (Fig. 4).

7. Reinstall low level cutoff assembly by reversing step 3.

8. Place drum of lubricant on dolly 316315-4. Adjust and tighten brackets 315928 and tighten thumb screws 52983 securely (Figure 4).

9. Place assembled pump into drum of lubricant.

10. Put three thumb screws 48018 into three side holes of cover and seal assembly and tighten so cover is held securely to drum (Fig. 4).

FOR FURTHER SERVICE, CONTACT YOUR LOCAL ALEMITE DISTRIBUTION CENTER



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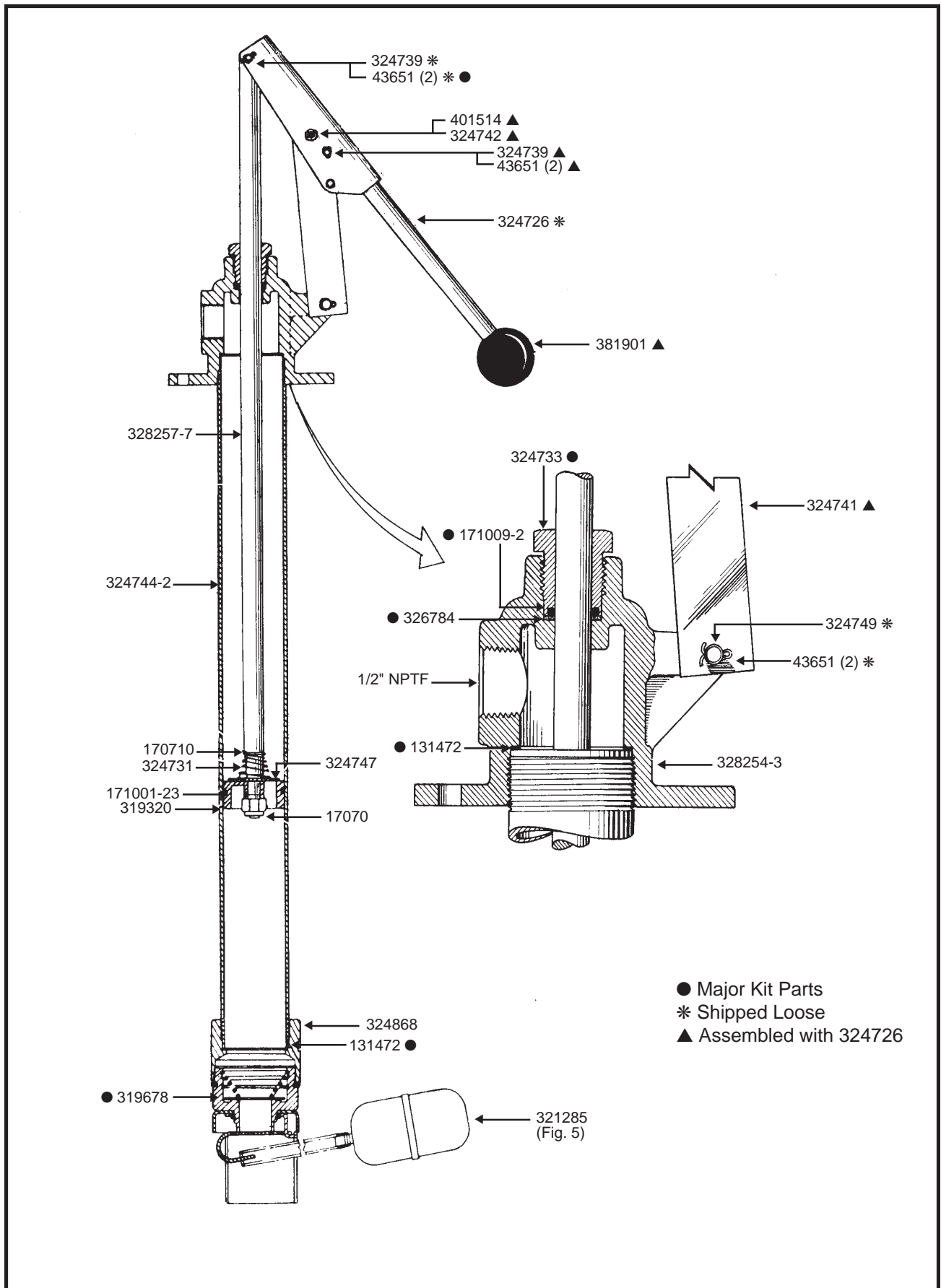


Figure 3: Components of Hand-Pump Assembly

11. Screw hose 317809-5F into outlet of meter 3681 and attach nozzle 306610 to hose.

Manual clockwise rotation of pointer will damage meter.

NOTE: Rest nozzle in large knockout hole when not in use (Fig. 1).

2. Insert nozzle into fill hole.

OPERATION

1. Set meter to zero by turning pointer in counterclockwise direction.

3. Work handle up and down using full strokes until meter indicates desired amount of lubricant has been pumped.

IMPORTANT: Make sure nozzle is clean before using.

CAUTION: Do not turn pointer clockwise to zero.

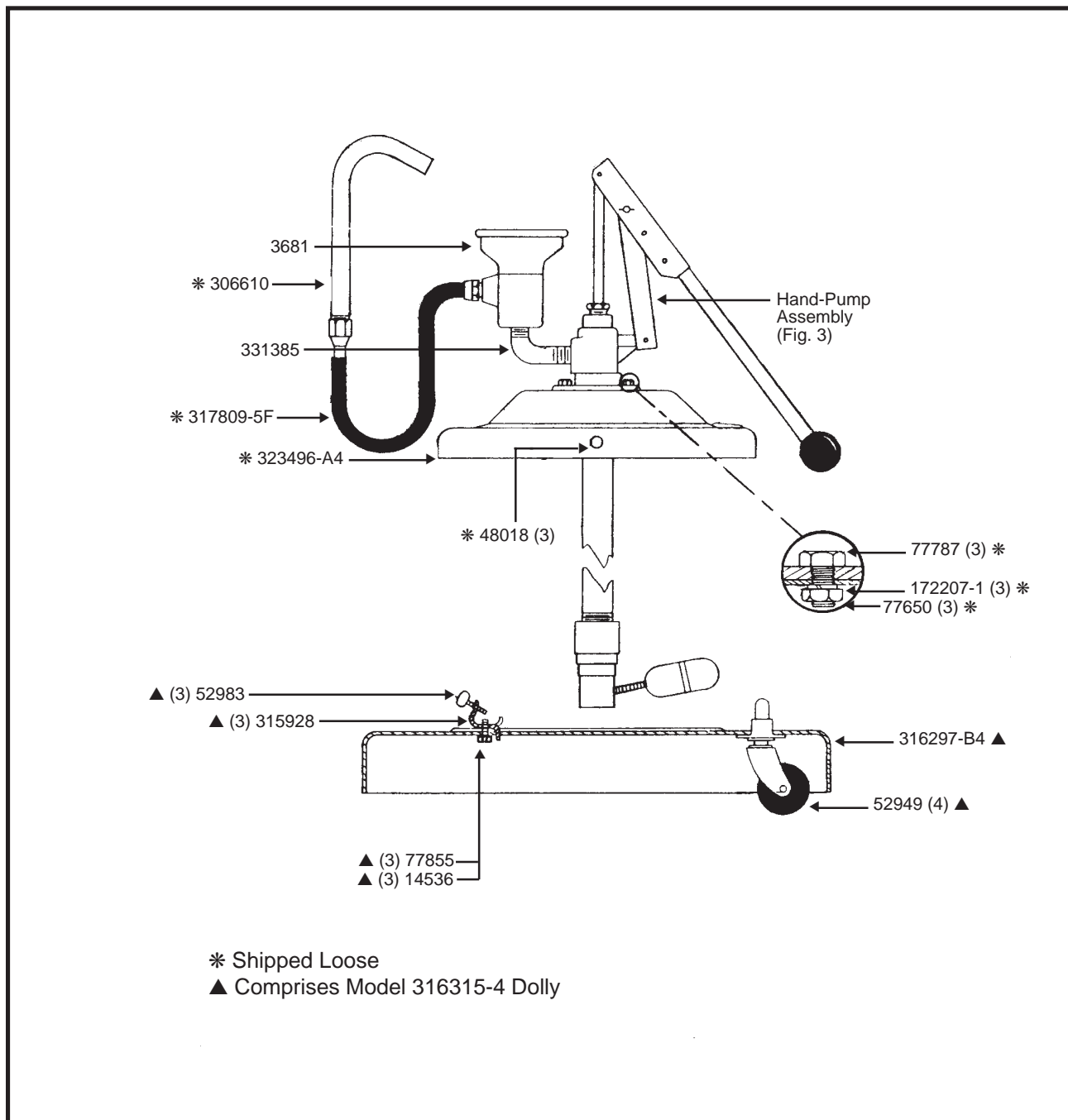


Figure 4: Components of Model 8570-4 Hand Pump with 316315-4 Dolly

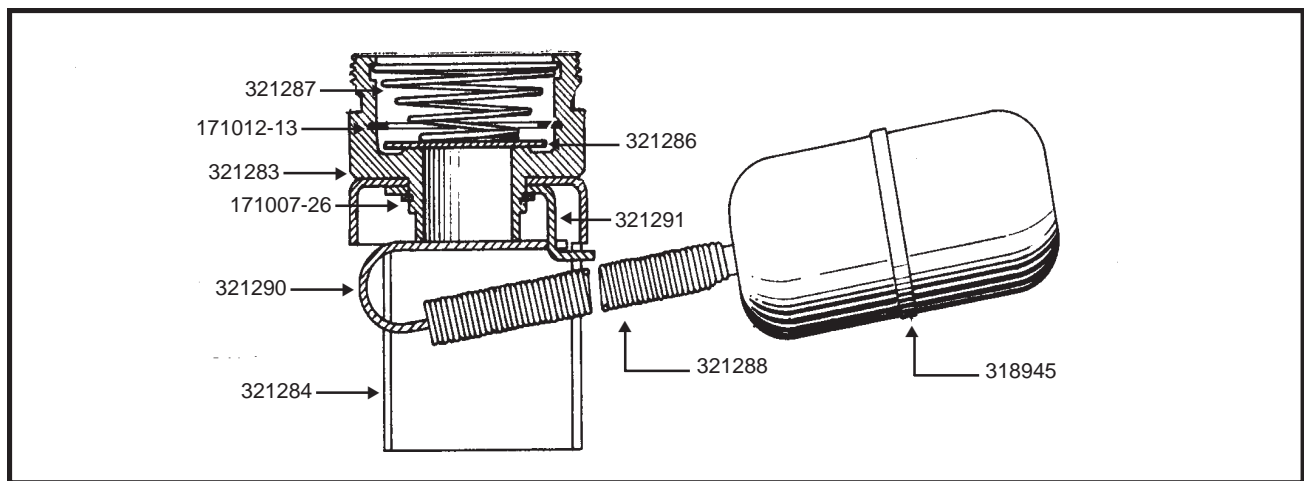


Figure 5: Model 321285 Low-Level Cutoff Assembly

4. Remove nozzle from fill hole.

MAINTENANCE

1. Check all connections for tightness.
2. Check level of lubricant in drum.
3. Periodically check for worn or damaged parts and make necessary replacements. (See Major Repair Kit Chart and Disassembly procedure).
4. Before transferring pump assembly to a new drum, make sure foot valve 321281 in low level cutoff assembly 321285 is completely seated and does not stick (Fig. 5).
5. Before a period of prolonged disuse, clean pump assembly completely with a solvent recommended by manufacturer of lubricant.

SERVICE

DISASSEMBLY

1. Remove hose 317809-5F from gear oil meter 3681 (Fig. 4).
2. Remove meter from elbow 331385 (Fig. 4).

NOTE: Consult instruction sheet SER 3680 for service instructions on meter. If elbow requires removal, reassemble with 55 ft. lbs. torque and position upright.

3. Remove low level cutoff assembly 321285 and lower gasket 131472 by unscrewing adapter 324868 from tube 324744-2 (Fig. 3).

4. Remove three hex cap screws 77787, three lockwashers 172207-1 and three hex nuts 77650. Slide cover and seal assembly 323496-A4 off pump tube 324744-2 (Figures 3 and 4).

5. Unscrew tube 324744-2 from body 328254-3 and pull completely off rod 328257-7 (Fig. 3).

NOTE: Upper gasket 131472 may fall out of position. Remove at step 8.

6. Remove two cotter pins 43651 and pin 324739 inserted at top of rod and bracket and lever assembly 324726 (Fig. 3).

7. Remove two cotter pins 43651 and pin 324739 from body 328254-3. Lift bracket and lever assembly and attached link 324741 off body.

8. Pull exposed rod out of body and remove upper gasket 131472 (Fig. 3).

9. Remove plug 324733, "O" ring 171009-2 and gasket 326784 from body cavity (Fig. 3).

NOTE: Lightly grease "O" ring before reinstalling. Do not overtighten plug at reassembly.

10. Remove nut 17070, plunger body 319320, valve 324747, spring 324731 and "E" retaining ring 170710 from bottom of rod (Fig. 3).

NOTE: Make sure plunger body is oriented correctly at reassembly.

CAUTION: Do not scratch pump rod.

11. Remove "O" ring 171001-23 from plunger body 319320 (Fig. 3).

NOTE: Grease "O" ring lightly at reassembly.

12. Unscrew adapter 324868 (Fig. 3) from valve adapter 321283 (Fig. 5).

13. Remove "O" ring 319678 (Fig. 3) from valve adapter 321283 (Fig. 5).

NOTE: Lightly grease "O" ring at reassembly.

REFER TO FIG. 5 DURING STEPS 15-18

14. Remove spring 321287, inverted retainer ring 171012-13 and foot valve 321286 from cavity of adapter 321283.

15. Remove retainer ring 171007-26 and slide pilot washer 321291 off adapter 321283 and base 321284.

16. Disconnect cutoff valve 321290 from pilot washer.

17. Remove one end of spring 321288 from curved end of cutoff valve and the other end from float assembly 318945.

NOTE: Put open, first coil end of spring onto cutoff valve at reassembly.

18. Clean and check disassembled parts for wear and make necessary replacements. Use all parts contained in Major Repair Kit 394053-2.

CAUTION: Worn or damaged parts would cause improper functioning of unit. Never reuse them.

19. Reassemble by reversing steps 1-17.

Repair Kit

394053-2 For use on Low-Pressure Hand Pump		
Part No.	Description	Qty.
43651	Cotter Pin, 1/16" x 1/2" long	2
131472	Gasket, 1-9/16" O.D.	2
171009-2	"O" Ring, 1/2" I.D. x 5/8" O.D.	1
319678	"O" Ring (Special) 1-61/64" O.D.	1
324733	Plug	1
326784	Gasket, 1/2" I.D. x 3/4" O.D.	1

PARTS LIST - Model 8570-4 Automatic Transmission Fluid Pump (Figure 4)		
Part No.	Description	Qty.
■ 3681	Oil Meter	1
48018	Thumbscrew, 1/4-28 x 1-1/8" long	3
77650	Hex Nut, 1/4-20	3
77787	Hex-Head Cap Screw, 1/4-20 x 5/8" long	3
✚ 172207-1	Lockwasher, 7/8" O.D.	3
306610	Nozzle Assembly	1
* 316315-4	Dolly	1
317809-5F	Hose Assembly, 5.3 feet long	1
323496-A4	Cover and Seal Assembly	1
331385	Elbow	1
* ✚	Low-Pressure Hand-Pump Assembly	1

* See separate parts list.
 ■ See parts list in SER 3680.
 ✚ Not available as a separate purchased part.

PARTS LIST - Model 316315-4 Dolly (Figure 4)

Part No.	Description	Qty.
+ 14536	Washer, 7/8" O.D.	3
52949	Caster	4
52983	Thumbscrew, 5/16-18 Threads	3
77855	Hex Screw, 5/16-18	3
315928	Bracket	3
+ 316297-B4	Welded Base Assembly	1

+ Not available as a separate purchased part.

PARTS LIST - Low-Pressure Hand Pump Assembly (Figure 3)

Part No.	Description	Qty.
+ 17070	Elastic Stop Nut, 5/16-18	1
● 43651	Cotter Pin, 1/16" x 1/2" long	6
● 131472	Gasket, 1-9/16" O.D.	2
+ 170710	Type "E" Retaining Ring	1
171001-23	"O" Ring, 1-1/4" I.D. x 1-1/2" O.D.	1
● 171009-2	"O" Ring, 1/2" I.D. x 5/8" O.D.	1
319320	Plunger Body	1
● 319678	"O" Ring (Special) 1-61/64" O.D.	1
* 321285	Low-Level Cutoff	1
+ 324726	Bracket & Lever Assembly	1
324731	Conical Spring, 1-1/16" long	1
● 324733	Plug	1
324739	Pin, 1/4" dia. x 1-7/32" long	2
+ 324741	Link	1
+ 324742	Stud, 10-32 x 1-11/32" long	1
+ 324744-2	Tube, 24-3/4" long	1
324747	Valve, 1-1/4" O.D.	1
324749	Steel Pin, 1/4" dia. x 31/32" long	1
+ 324868	Adapter	1
● 326784	Gasket, 1/2" I.D. x 3/4" O.D.	1
328254-3	Outlet Body	1
+ 328257-7	Rod, 1/2" dia. x 27-13/16" long	1
381901	Knob, 1-15/16" diameter	1
+ 401514	Elastic Stop Nut, 10-32	1

- Repair Kit Part
- * See separate parts list.
- + Not available as a separate purchased part.

PARTS LIST - Model 321285 Low-Level Cutoff (Figure 5)

Part No.	Description	Qty.
+ 171007-26	..... Retaining Ring (Ext.), 59/64" O.D.	1
+ 171012-13	..... Inverted Retaining Ring	1
318945	..... Float Assembly	1
+ 321283	..... Adapter	1
+ 321284	..... Base	1
321286	..... Foot Valve	1
321287	..... Spring, 3/4" long	1
+ 321288	..... Spring, 4-1/4" long	1
321290	..... Cutoff Valve	1
+ 321291	..... Pilot Valve	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

Deleted: 316297-P, 316315-P, 319315, 323496, 332823

Changed: 3681 was 3680