

Lever-Operated Grease Gun

Description

Each model gun is designed for 3-way loading; cartridge, loader pump, and suction. Refer to **Page 4** for details.

The guns are spring-primed and contain an air bleed valve to aid the priming process. Each gun is also equipped with a Loader Fitting that allows filling directly from a hand-operated loader pump. See **Figure 6**.

The Lever of the gun is adjustable. Set the gun to the volume position and operate the Lever fully to deliver 1 ounce (28.4 grams) of grease in 16 strokes. Set it to the pressure position to develop up to 10,000 psi (690 Bars). See **Figures 1** and **7**.

The gun's Lever is also variable-stroke. Grease dispenses with a stroke as short as 1/2 " (12.7 mm).

These guns are designed with Buna-N (Nitrile) seals for compatibility with petroleum-based greases.

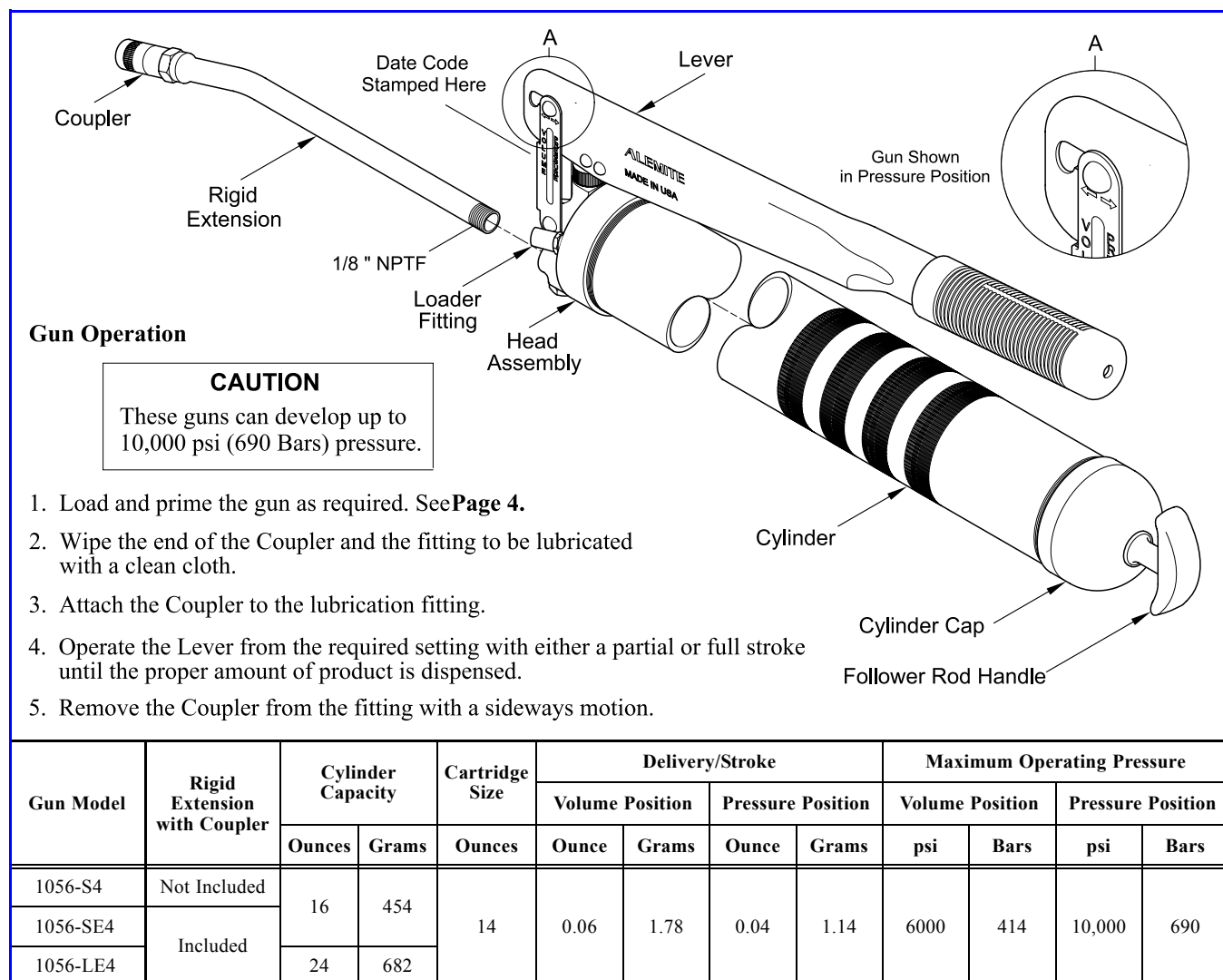


Figure 1 Lever-Operated Grease Gun Model 1056 Series - Models 1056-SE4 and 1056-LE4 Shown

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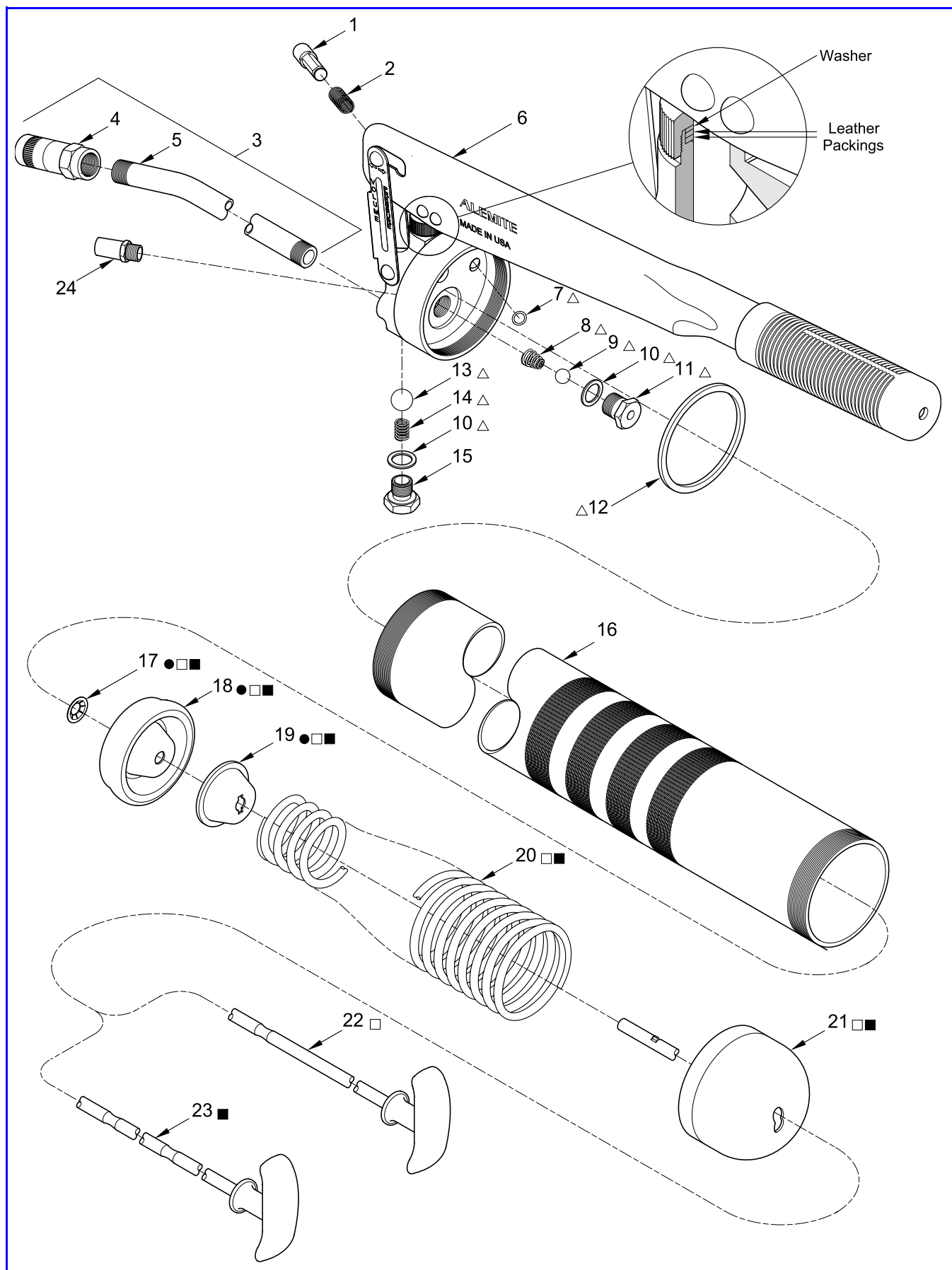


Figure 2 *Lever-Operated Grease Gun Model 1056 Series - Exploded View*

Item No.	Part No.	Description	Qty	Notes		Numeric Order Part # (Item #)
1		Stem, Bleed Valve	1			6304-B (4)
2		Spring	1			6638 (3)
3	6638	Coupler and Extension Assembly	1		Model 1056-SE4 & 1056-LE4	53986 (5)
4	6304-B	Coupler	1		Included with Item 3	171000-1 (7)
5	53986	Extension	1		Included with Item 3	171700-18 (9)
6		Head Assembly	1			171700-28 (13)
7	171000-1	O-Ring, 1/8 " ID x 1/4 " OD	1	△		303246 (15)
8		Spring	1	△		303247 (10)
9		Ball, 9/32 " Dia	1	△		303248 (14)
10		Gasket (Aluminum)	2	△		322610 (24)
11		Seat, Ball	1	△		336523 (12)
12	336523	Gasket (Nitrile)	1	△		337058 (18)
13		Ball, 7/16 " Dia	1	△		337059 (19)
14		Spring	1	△		337746 (11)
15		Plug, 9/16 " -20	1			337758 (2)
16	337826-3	Cylinder, 10-3/4 " Long	1		Model 1056-S4 & 1056-SE4	337759 (8)
	337826-4	Cylinder, 15 " Long	1		Model 1056-LE4	337812 (20)
17		Pushnut	1	● □ ■	● Kit contains a quantity of 5	337813 (20)
18		Follower (Nitrile)	1	● □ ■	● Kit contains a quantity of 5	337826-3 (16)
19		Plate, Back-Up	1	● □ ■	● Kit contains a quantity of 2	337826-4 (16)
20	337812	Spring, 13-1/4 " Long	1	□	Model 1056-S4 & 1056-SE4	337827-1 (21)
	337813	Spring, 18 " Long	1	■	Model 1056-LE4	338585 (17)
21		Cap	1	□ ■		338658 (1)
22		Rod and Handle (Single-Notch)	1	□	Model 1056-S4 & 1056-SE4	338797-A1 (6)
23		Rod and Handle (Double-Notch)	1	■	Model 1056-LE4	339550-1 (22)
24	322610	Fitting Assembly, Loader	1			339550-2 (23)
Legend: Part numbers left blank (or in <i>italics</i>) are not available separately ●△□■ designates a repair kit item						

Repair Kits

Part No.	Kit Symbol	Description
393604	●	Kit, Repair, Follower [Contains five (5) of items 17 and 18 and two (2) of item 19]
393636	△	Kit, Minor Repair
393524	□	Kit, Follower (Assembled) [for models 1056-S4 and 1056-SE4]
393525	■	Kit, Follower (Assembled) [for model 1056-LE4]

Loading the Gun

IMPORTANT: Warranty may be void if these procedures are not explicitly followed.

Cartridge Loading

1. Unscrew the Head Assembly from the Cylinder.
 2. Pull the Follower Rod outward from the Cylinder Cap.
 3. Engage the groove* in the Follower Rod with the slot in the Cylinder's Cap. See **Figure 3**.
 4. Remove the plastic cap from the cartridge and discard.
 5. Apply a film of grease to the exposed inside surface of the cartridge.
- NOTE:** This is only necessary for a virgin gun.
6. Insert the cartridge into the Cylinder (open end first) until the metal lip seats.
 7. Remove the tabbed seal from the cartridge and discard.
 8. Screw the Head Assembly onto the Cylinder.
 - Tighten the Head Assembly securely to the Cylinder.
 9. Disengage the Follower Rod from the slot in the Cylinder's Cap.
 10. Push and rotate the Follower Rod into the Cylinder.
 11. Prime the gun. Refer to the section entitled **Priming the Loaded Gun** for details.

Loading the Gun from a Loader Pump

WARNING

The gun is equipped with a low-pressure Loader Fitting. Do not substitute with a high-pressure grease fitting. Personal injury can occur due to excessive pressure.

The use of a grease fitting will void the warranty.

1. Wipe the Loader Fitting with a clean cloth.

* Engage the first groove on Model 1056-LE4. The second groove is used when filling from a loader pump or suction loading.

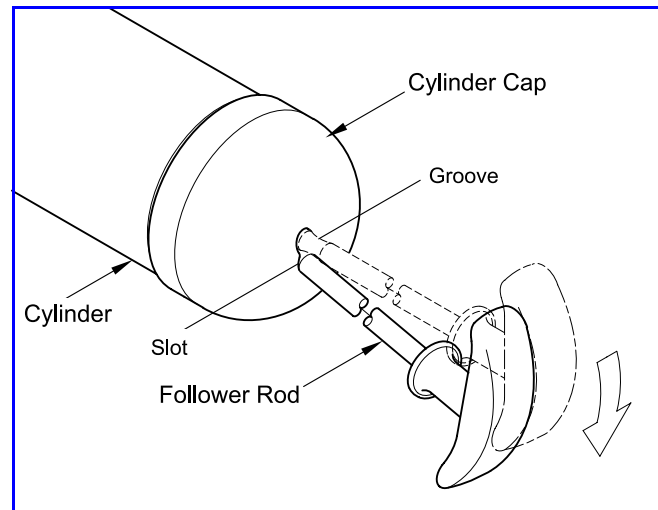


Figure 3 Follower Rod Engaged in Cylinder Cap Slot

CAUTION

The Loader Fitting on the gun must mate with the loader coupler. The pump may not operate if the components are not compatible.

2. Pull the Follower Rod outward from the Cylinder Cap. At the same time, rotate the Rod to allow the Locking Tabs access through the Back-Up Plate. See **Figure 4**.
3. Rotate the Rod and allow the Locking Tabs to contact the Back-Up Plate. See **Figure 5**.
4. Remove the cap on the pump's loader coupler.
5. Seat the Loader Fitting into the loader coupler. See **Figure 6**.

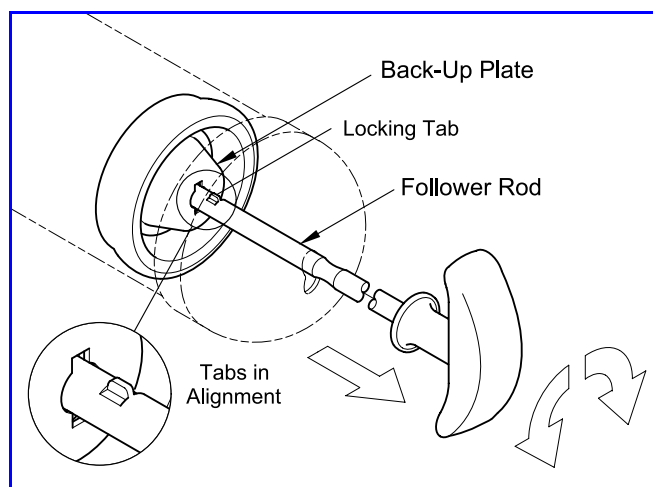


Figure 4 Follower Rod Locking Tabs Aligned with Back-Up Plate

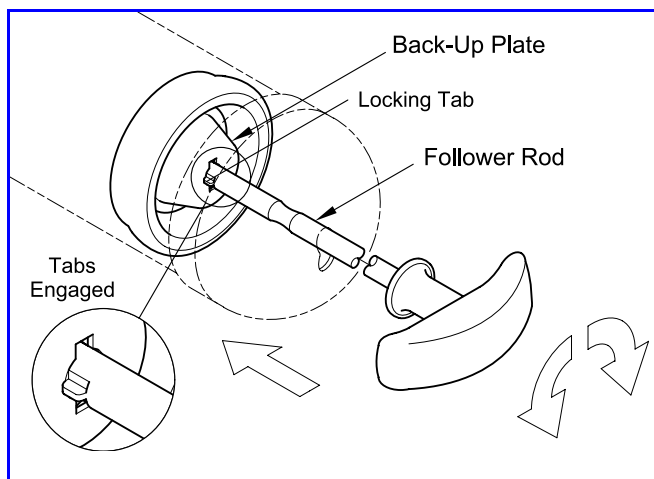


Figure 5 Follower Rod Engaged with Back-Up Plate

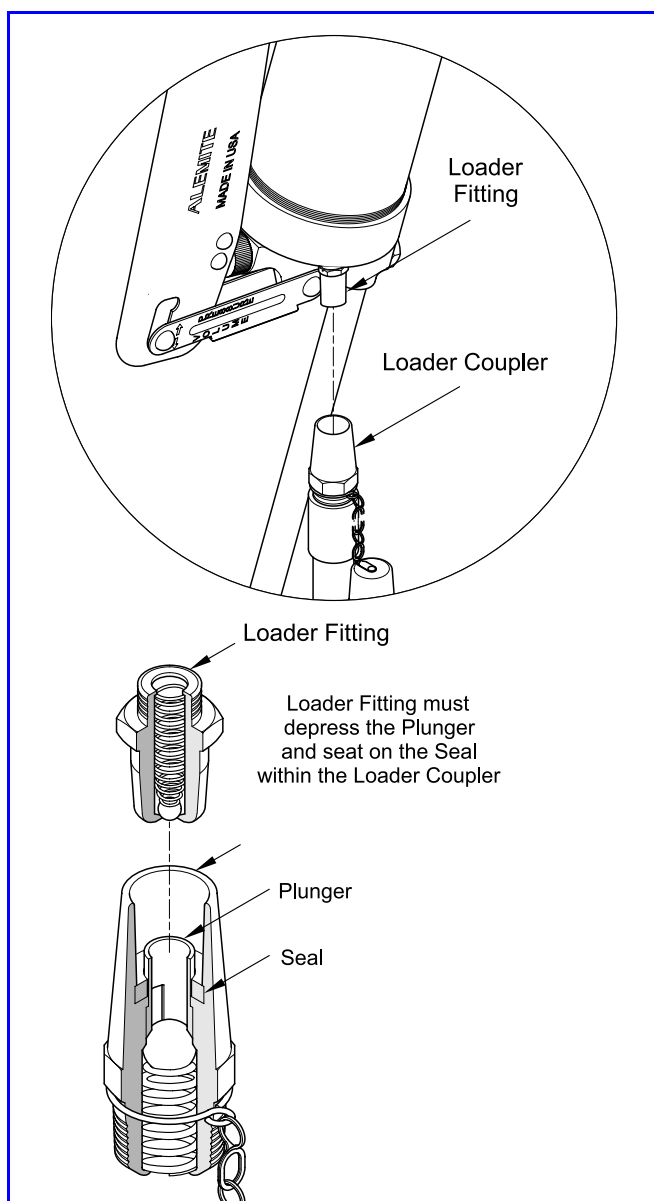


Figure 6 Loader Fitting and Loader Coupler
Section View

6. Operate the pump and view the movement of the Follower Rod.
7. Discontinue pump operation once the groove* on the Follower Rod is visible.
8. Push and turn the Follower Rod into the Cylinder.
9. Prime the gun. Refer to the section entitled **Priming the Loaded Gun** for details.

Suction Loading

1. Unscrew the Head Assembly from the Cylinder.
2. Insert the head of the Cylinder below the surface of the grease.
3. Slowly pull the Follower Rod outward from the Cylinder Cap until the groove* is visible.
4. Engage the groove in the Follower Rod with the slot in the Cylinder's Cap. See **Figure 3**.
5. Screw the Head Assembly onto the Cylinder.
 - Tighten the Head Assembly securely.
6. Push and rotate the Follower Rod into the Cylinder.
7. Prime the gun. Refer to the section entitled **Priming the Loaded Gun** for details.

Priming the Loaded Gun

Overview

Priming is the act of removing air and introducing grease into the gun's pumping mechanism.

Whether a gun primes is dependent on the:

- viscosity of the grease
- temperature of the grease
- condition of the gun

Operate the Gun

***IMPORTANT:** Make sure the gun is in the volume position. See **Figure 7**.*

In most cases the gun will prime simply by operating the Lever several times.

Should grease fail to appear, the Head Assembly must be bled.

* Locate the second groove on model 1056-LE4.

Force Prime

This process manually assists air within the Head Assembly to be bled at the Bleed Valve.

1. Make sure the Lever is in the volume and open position.
2. Pull the Follower Rod outward from the Cylinder Cap. At the same time, rotate the Rod to allow the Locking Tabs access through the Back-Up Plate. See **Figure 4**.
3. Rotate the Rod and allow the Locking Tabs to contact the Back-Up Plate. See **Figure 5**.
4. Depress the Bleed Valve and at the same time push the Follower Rod into the gun's Cylinder. See **Figure 7**.

Once the air is eliminated:

5. Operate the Lever of the gun several times.

Once grease appears:

6. Push and turn the Follower Rod into the Cylinder.

Loss of Prime

A situation may arise when only a portion of the grease within the gun dispenses.

The most common cause for this loss of prime is due to an air pocket in the grease.

The reasons previously stated as to whether a gun primes are additional conditions that can cause a loss of prime:

- viscosity of the grease
- temperature of the grease
- condition of the gun

Additional conditions are:

- damaged cartridge
- type of grease *

* Certain synthetic greases can react with the follower causing it to swell.

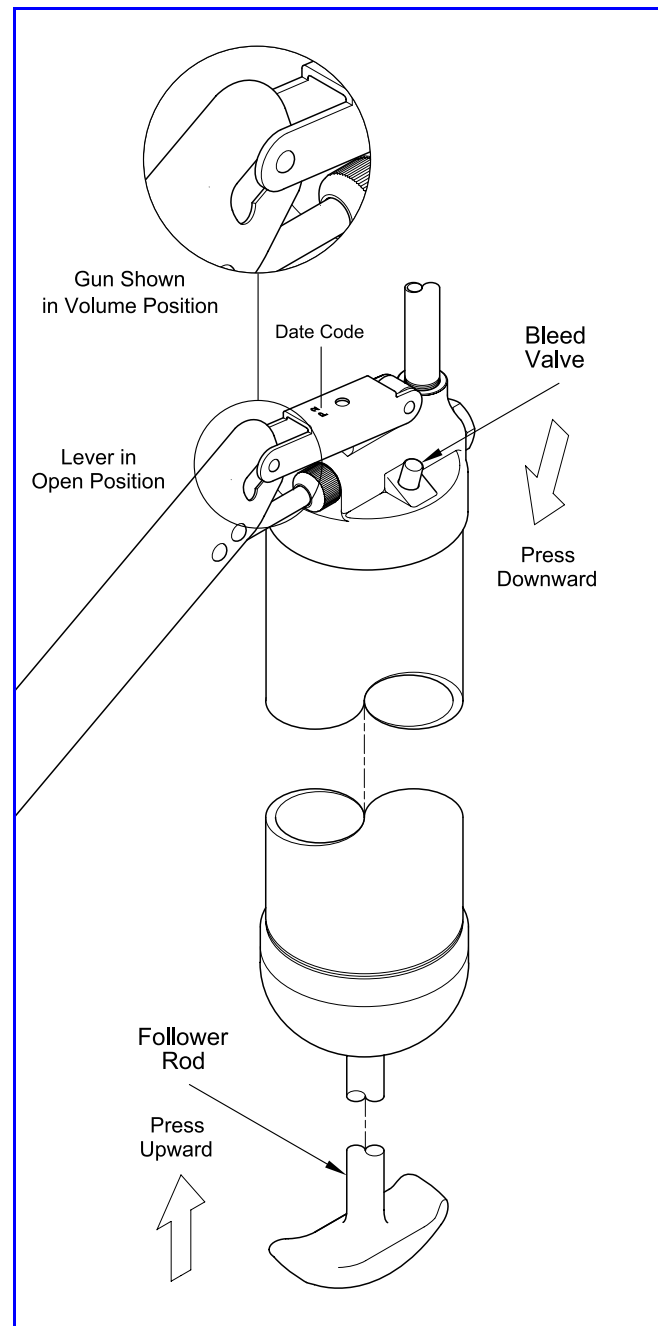


Figure 7 Force Priming the Gun

Troubleshooting Chart

Gun Indications	Possible Problems	Solution
Gun does not pump	Air within Head Assembly (6)	Force prime the gun
Gun lacks pressure	1. Worn or damaged Ball (9) and/or Ball Seat (11) 2. Ball Seat (11) loose 3. Worn or damaged Gasket (10) 4. Worn piston and/or bore in Head Assembly (6)	1. Use Minor Repair Kit 393636 2. Tighten Ball Seat (11) 3. Use Minor Repair Kit 393636 4. Replace gun
Gun does not hold pressure (pressure falls when lever is raised)	1. Worn or damaged Ball (13) 2. Worn or damaged ball seat in Head Assembly (6)	1. Use Minor Repair Kit 393636 2. Hammer Ball (13) into Head Assembly (6) to recondition seat
External Leakage		
Grease leakage visible at Cap (21)	1. Worn or damaged Follower (18) 2. Worn or damaged Rod and Handle Assembly (22 or 23) 3. Damaged Cylinder (16)	1. Use Follower Repair Kit 393604 2. Replace gun 3. Replace Cylinder (16)
Grease leakage visible between Cylinder (16) and Head Assembly (6)	1. Initial tightening of Cylinder (16) into Head Assembly (6) not sufficient 2. Worn or damaged Gasket (12)	1. Tighten Cylinder (16) into Head Assembly (6) 2. Replace Gasket (12)
Grease leakage visible at Plug (15)	1. Plug (15) loose 2. Worn or damaged Gasket (10)	1. Tighten Plug (15) 2. Use Minor Repair Kit 393636
Grease leakage visible at Extension (5)	Initial tightening of Extension (5) into Head Assembly (6) and/or Coupler (4) not sufficient	Tighten Extension (5) into Head Assembly (6) and Coupler (4) into the Extension
Grease leakage visible at Head Assembly (6)	1. Loader Valve Assembly (24) loose 2. Worn Bleed Valve O-Ring (7) 3. Worn or damaged piston and/or bore in Head Assembly (6).	1. Tighten Loader Valve Assembly (24) into Head Assembly (6) 2. Replace O-Ring (7) 3. Replace gun

Changes Since Last Printing

Changed Part Number of Items 22 and 23 and Order Listing

