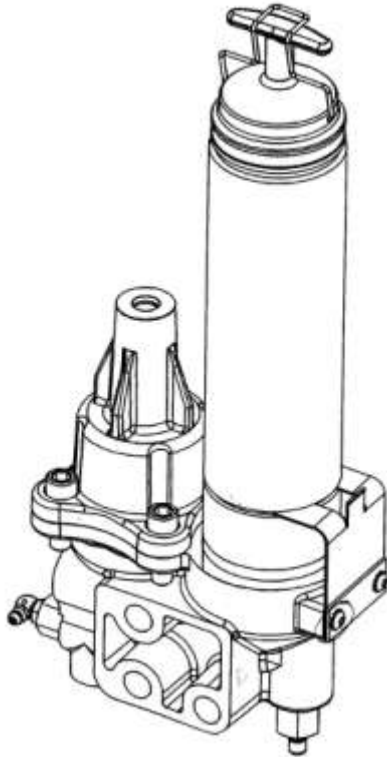


# **BreakerLube™**



Hydraulically Powered  
Automatic Grease  
Dispensing System for  
Breakers



## **OPERATION, MAINTENANCE and PARTS**



**READ THE MANUAL.** Do not operate or service this equipment unless you have carefully read and understand all instructions and warnings contained in this manual.



**Change Notice for Technical Manual 571279**

<b><u>Date</u></b>	<b><u>Page</u></b>	<b><u>Change</u></b>
4/19/05	--	Initial release of Manual 571279 for “AutoLube B”. (IMPORTANT NOTE: The exterior dimensions of the AutoLube B and the former model AutoLube IV are identical. Components, such as the cylinder block and piston, however, are different, as well as the operating specifications. Continue to use Manual 103831 for information such as parts and technical specifications for model AutoLube IV. Refer to the ID tag located on the pump head if model identification is in question. [85425] AutoLube B or [85429] Autolube IV.
3/22/07	Throughout	Remove all non-essential references to AutoLube IV. Revise technical specifications of 570968.
8/08	Throughout	Name change. “AutoLube B” simplified to “BreakerLube”. Pump number 570968 remains unchanged.
10/21/10	19,20,21	Section 11 Parts Information - Items unique to the BreakerLube pump [570968] are identified as 36,37,38,39 and 40. Items unique to AutoLube IV pump [103270] are identified as 2,3 and 4. (Note: For technical specifications on the AutoLube IV, continue to use Manual 103831.

Material presented in this publication, including descriptions, illustrations and specifications is subject to change without prior notice. Go to [www.alliedcp.com](http://www.alliedcp.com) for product or document updates.

## SAFETY INFORMATION

### Be Alert to Safety Messages

Safety messages appear throughout this manual and on labels affixed to the Allied equipment. Read and understand the information contained in the safety message before attempting to install, operate, service or transport the Allied equipment.

Keep all safety labels clean. Words and illustrations must be readable. Before operating this equipment, replace damaged or missing labels.

### Purpose of Safety Messages

The information provided in the safety message is important for your safety. These messages provide instructions on how to avoid injury from potential hazards associated with improper use, operation or handling of the Allied equipment. Read and follow the instructions of each safety message and be aware the consequence if these instructions are not followed.

Safety messages are arranged to provide the following information:

- Alert personnel to potential hazards
- Describe the severity of the hazard, if encountered
- Identify the nature of the hazard
- Instruct how to avoid the hazard

### Safety Alert Symbol



ATTENTION, BECOME ALERT, YOUR SAFETY IS INVOLVED.

The exclamation point within an equilateral triangle is the safety alert symbol. The symbol is used to draw attention to the presence of potential hazards.

### Signal Words

“DANGER”, “WARNING” and “CAUTION” are signal words used to express the different degrees of hazard seriousness. Learn to recognize and understand the severity and consequence associated with each of these signal words should a potentially hazardous condition be encountered.

“**DANGER**” identifies the highest degree of hazard seriousness. Its use is limited to the most extreme situations.

**DANGER** - Indicates an imminent hazard, which, if not avoided, **will** result in death or serious injury.

**WARNING** - Indicates an imminent hazard, which, if not avoided, **can** result in death or serious injury.

**CAUTION** - Indicates hazards which, if not avoided, **could** result in serious injury or damage to the equipment.

### Additional Precautionary Messages and Instructions



Additional precautionary messages and instructions found in this manual are preceded with – “**IMPORTANT**” and “**NOTE**”.

**IMPORTANT** - indicates instructions that if not followed, may cause damage to the equipment.

**NOTE** – Indicates instructions that highlight suggestions, which will result in enhanced installation, reliability, or operation.

## SAFETY INFORMATION (cont'd)

### Before Operating Any Equipment

 	<b>Read the Manual</b>
<p>This manual contains important information for the safe and proper use of the Allied attachment. Read, understand and follow all safety instructions described in this manual before installing, operating or servicing the Allied equipment.</p> <p>Read and understand all safety precautions and operating instructions found in the manuals provided by the carrier manufacturer. Do not operate the carrier, or perform any inspection, maintenance or service to its systems unless you are qualified.</p>	

### Qualified Person

For the purposes of this manual and product labels, a qualified person is one who:

- Has read, understands and adheres to the safety messages in this manual.
- Is competent in recognizing potential hazards and possess the knowledge and skills necessary to make prompt decisions resulting in appropriate actions to safeguard against personal injury and property damage.
- Has received adequate training in safe and proper installation, maintenance and operation for this Allied equipment.
- Is authorized to operate, service and transport the Allied equipment.

Allied cannot anticipate every possible circumstance that might involve a potential hazard. The warnings in this manual and labels affixed to the Allied attachment are therefore not all inclusive.

### Owner's Responsibilities

The equipment owner is responsible to ensure that only qualified personnel operate and service the Allied attachment.

Qualified personnel must adhere to the procedures explained in this manual, especially regarding personnel safety.

If necessary, the owner or safety/training personnel must expand upon these general instructions and adapt them to particular applications.

### General Construction Safety

Always follow procedures that promote safe conditions for workers and bystanders. The standard safety precautions expected and required of those working in construction shall include, but not limited to: locating existing underground service and utility lines, establishing pedestrian barriers and using personnel protection equipment, etc.

### Federal, State, Local and OSHA Construction Guidelines and Regulations

Use the Allied equipment in accordance with all federal, state and local regulations regarding construction practices and public safety. Identification of, and compliance to, governing regulations are the responsibility of the owner and operator.

In the United States, comply with the recommendations of the Occupational Safety and Health Administration standards of the U.S. Department of Labor. For OSHA construction guidelines contact your local federal government office or write:  
 U.S. Government Printing Office  
 Superintendent of Documents P.O. Box  
 371954 Pittsburgh, Pa. 15250-7954  
[www.osha.gov](http://www.osha.gov)

## SAFETY INFORMATION (cont'd)

Ask for Construction Industry OSHA Standards Stock #869-034-00107-6.

### Operational Safety Program

The safe and effective use of the Allied attachment depends upon proper installation, operation, maintenance and repair. Operational safety must encompass all of these factors.

Accident prevention through operational safety programs are most effective when the equipment owner further develops the program by taking into account his own experience in using and maintaining equipment.

Developing such programs will result in improved equipment life, performance and reduced downtime. Most importantly, it will minimize the risk of personal injuries and equipment damage.

### Intended Use

The lubricator is exclusively designed to dispense NLGI-2 type grease (Including Allied Chisel Paste) in hydraulic hammer applications and should be operated only with hydraulic power. Any other use not in accordance with the instructions contained in this manual will result in loss of claims for warranty and liability.

Operation or service other than in accordance with these instructions may subject the BreakerLube to conditions beyond its design capability. Improper operation, service or the use of non-Allied parts may expose the operator, service personnel, and bystanders to serious injury or result in equipment failure.

Responsibility for operation and safety lies at all times with the operator of the carrier. Allied assumes no liability for the results of actions not recommended in this manual

and specifically any damages resulting from:

- Incorrect usage of the BreakerLube.
- Exceeding maximum ratings as provided in Section 4.0 Specifications.
- Inadequate maintenance of the BreakerLube.
- Use of non-Allied spare parts.
- Use of grease, which is not or is only conditionally pumpable. Allied Chisel Paste is recommended.
- Any unauthorized modification of the system components. Contact Allied's Technical Service Department if modification is necessary.
- Insufficient lubricant or irregular pump refilling.
- Contaminated lubricants.
- Improper disposal of used or contaminated lubricants.

These exclusions apply to damage to the BreakerLube™, associated equipment and injury to personnel.

Warranty does not cover conditions, which in the reasonable judgment of Allied Construction Products, LLC, arise from misuse, negligence, alteration, accident, or lack of performance of necessary maintenance. For complete details of product warranty coverage, refer to form number 100785.

## TABLE OF CONTENTS

<b><u>SECTION</u></b>	<b><u>Page</u></b>	<b><u>SECTION</u></b>	<b><u>Page</u></b>
<b>DOCUMENT REVISIONS.....</b>	<b>i</b>	<b>5.0 INSTALLING BREAKERLUBE.....</b>	<b>6</b>
<b>SAFETY INFORMATION.....</b>	<b>ii</b>	5.1 Mounting Considerations.....	6
Be Alert to Safety Messages.....	ii	5.2 General Installation Instructions...	6
Purpose of Safety Messages.....	ii	<b>6.0 SERVICE &amp; MAINTENANCE</b>	<b>8</b>
Safety Alert Symbol.....	ii	6.1 Low Level Indicator.....	8
Signal Words – “DANGER”, “WARNING” and “CAUTION” .....	ii	6.2 Filling Pump with Grease or Changing Empty Cartridge.....	8
Additional Precautionary Messages...	ii	6.2.1 Replace Empty Cartridge.....	8
Before Operating any Equipment.....	iii	6.2.2 Install Grease Cartridge.....	9
Qualified Person.....	iii	6.3 Air Purging.....	9
Owner’s Responsibilities.....	iii	6.4 Spring Clip.....	9
General Construction Safety.....	iii	6.5 Manual Bulk Filling.....	10
Federal, State, Local & OSHA Construction Guidelines & Regulations.....	iii	6.6 Manual Filling with Hand Pump...	10
Operational Safety Program.....	iv	6.7 Pre-fill Lubricant Line.....	10
Intended Use.....	iv	6.8 Pump Output Adjustment.....	11
<b>TABLE of CONTENTS.....</b>	<b>v</b>	6.9 Daily Inspections.....	11
<b>1.0 INTRODUCTION.....</b>	<b>1</b>	6.10 Working in High / Low Temperatures.....	11
1.1 About This Manual.....	1	6.11 Working Underwater.....	11
<b>2.0 EQUIPMENT IDENTIFICATION.....</b>	<b>2</b>	<b>7.0 TROUBLESHOOTING.....</b>	<b>12</b>
2.1 Model Number Identification Tag	2	<b>8.0 REMOVAL &amp; STORAGE.....</b>	<b>13</b>
2.2 Record the Model Number.....	2	8.1 Remove BreakerLube.....	13
<b>3.0 OVERVIEW.....</b>	<b>3</b>	8.2 Remove Hoses.....	13
3.1 Product Description.....	3	8.3 Reattach After Idle Period.....	13
3.2 Operation.....	3	<b>9.0 INSTALLATION KITS.....</b>	<b>14</b>
<b>4.0 TECHNICAL INFORMATION</b>	<b>4</b>	<b>10.0 CHISEL PASTE.....</b>	<b>16</b>
4.1 General Specifications.....	4	<b>11.0 PARTS INFORMATION.....</b>	<b>17</b>
4.2 Dimension Diagrams.....	5		

## SECTION 1.0 INTRODUCTION

### 1.1 About This Manual

**Manual Part Number: 571279**

Technical Manual 571279 is applicable to the following Allied product(s):

**Name:** BreakerLube  
(Formerly AutoLube B)

**Model(s):** 570968 [85425]

**Serial Numbers:** N/A

**Years of Manufacture:** 2005 and above

Material presented in this manual, including illustrations and descriptions, is intended solely for use with the equipment identified above and may not be suitable for other models. Prior to use, confirm that the information recorded on the Equipment Identification Plate corresponds with the above. For the location of the ID Plate, refer to Section 2.0.

The Technical Manual outlines important information for the safe and proper use of the Allied equipment. Information includes:

- Safety Messages
- Technical Specifications
- Inspection & Maintenance
- Troubleshooting
- Installation Guidelines
- Removal & Storage
- Spare Parts Information

This manual is an integral part of this product. Keep it in a convenient location so that it is easily accessible for future reference.



## SECTION 2.0 EQUIPMENT IDENTIFICATION

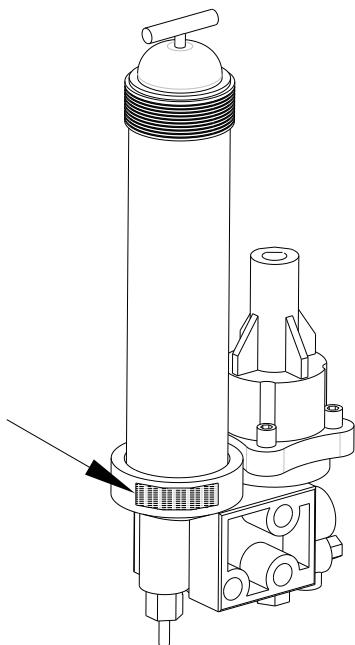
### 2.1 Model Number

The Model Number assigned to this equipment is printed on the Product Information Label. You will find this label affixed to the pump, just below the grease cartridge housing. Refer to Figure 2-1.

The product Identification label provides the following useful information:

- Product name
- Model number
- Maximum inlet pressure
- Manufacturer's name
- Address

Verify that the information contained on the label corresponds with the information provided in Section 1 of this manual.



**Fig. 2-1**  
**Product Information Label**

### 2.2 Record Product Information for Future Reference

- Copy the information from the Product Information Label to the space provided below.
- Indicate the date in which this equipment was placed into service.

Model: \_\_\_\_\_

In service date: \_\_\_\_\_

- Your local Allied dealer requires this information to better assist you with questions regarding parts, warranty, operation, maintenance, or repair.

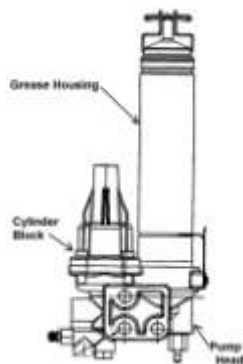
## SECTION 3.0 OVERVIEW

### 3.1 Product Description

BreakerLube™, is a hydraulically powered, automatic grease dispensing system. It is designed to mount directly on the hammer and works integrally with the carrier and hammer to provide a simple, effective and inexpensive method of lubricating the hammer's tool and bushings.

The BreakerLube System provides the following advantages:

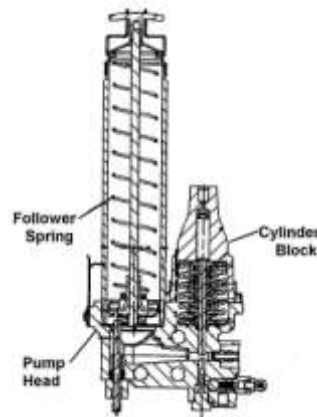
- Simple design.
- Compact size - mounts on the hammer.
- Adapts easily to different hammer models.
- Uses standard 14-oz. grease cartridge or may be bulk filled.
- No tools are required to change grease the cartridge.
- Primer vent valve.
- Adjustable output.
- Compatible with Allied Chisel Paste.



**Fig. 3-1  
Main Components**

### 3.2 Operation

When connected to the hammer's hydraulic line, the BreakerLube dispenses one shot of lubricant to the hammer's tool and bushings each time the hammer is activated.



**Fig. 3-2  
Internal Components**

1. The cylinder block houses the piston, plunger and spring set. Pressurizing the hydraulic port pushes the piston against the plunger.
2. Each downward stroke of the piston pushes the plunger into the grease chamber.
3. Grease from the chamber is pumped out the lubrication port. The output (per stroke) is regulated by how far the plunger travels. Output is adjusted by the metering plug.
4. The plunger and piston return back to the home position by the force from the springs.
5. The check valve prevents siphoning when the plunger returns.
6. The cycle is repeated every time the hammer is started and stopped.

## SECTION 4.0 TECHNICAL INFORMATION

### 4.1 General Specifications - 570968

<b>Table 4-1 BreakerLube™</b>		
<b>Item</b>	<b>Specification</b>	<b>Remarks</b>
<b>Weight</b>	16.3 lbs. [7.4kg]	Empty
	17.3 lbs. [7.8kg]	Full
<b>Height</b>	16.42 in. [417mm]	Refer to Figure 3-1
<b>Width</b>	7.28 in. [185mm]	Refer to Figure 3-1
<b>Depth</b>	3.31 in. [84mm]	Refer to Figure 3-1
<b>Hydraulic Pressure</b>	2500 - 3000 psi [172 - 206 bar]	The required oil pressure for operation.
<b>Maximum Hydraulic Pressure</b>	5000 psi [345 bar]	Maximum pressure at the hydraulic port
<b>Recharge Pressure</b>	1100 psi [75 bar]	The hydraulic port must reach 1100 psi for the pump to recharge.
<b>Output Pressure</b>	6500 psi [450 bar]	Maximum
<b>Output per Stroke</b>	0.018 cu. in. [0.3 cc]	With standard metering plug. Refer to Section 6.4. for optional metering plugs.
<b>Hydraulic Ratio @ Max Output and Pressure</b>	0.7:1	
<b>Grease Reservoir Volume</b>	14 oz. [429 cc]	Accepts standard 14 oz. cartridge, or may be bulk filled.
<b>Operating Temperature</b>	-10°F to 176°F [-23°C to 80°C]	
<b>Connecting Threads</b>	SAE #4 7/16-20 UNF	Hydraulic Port
	SAE #4 7/16-20 UNF	Lubricant Port
<b>Hose Size</b>	1/4-inch [6.35mm]	Hydraulic Line
	1/4-inch [6.35mm]	Lubricant Line

### 4.2 Dimension Diagram

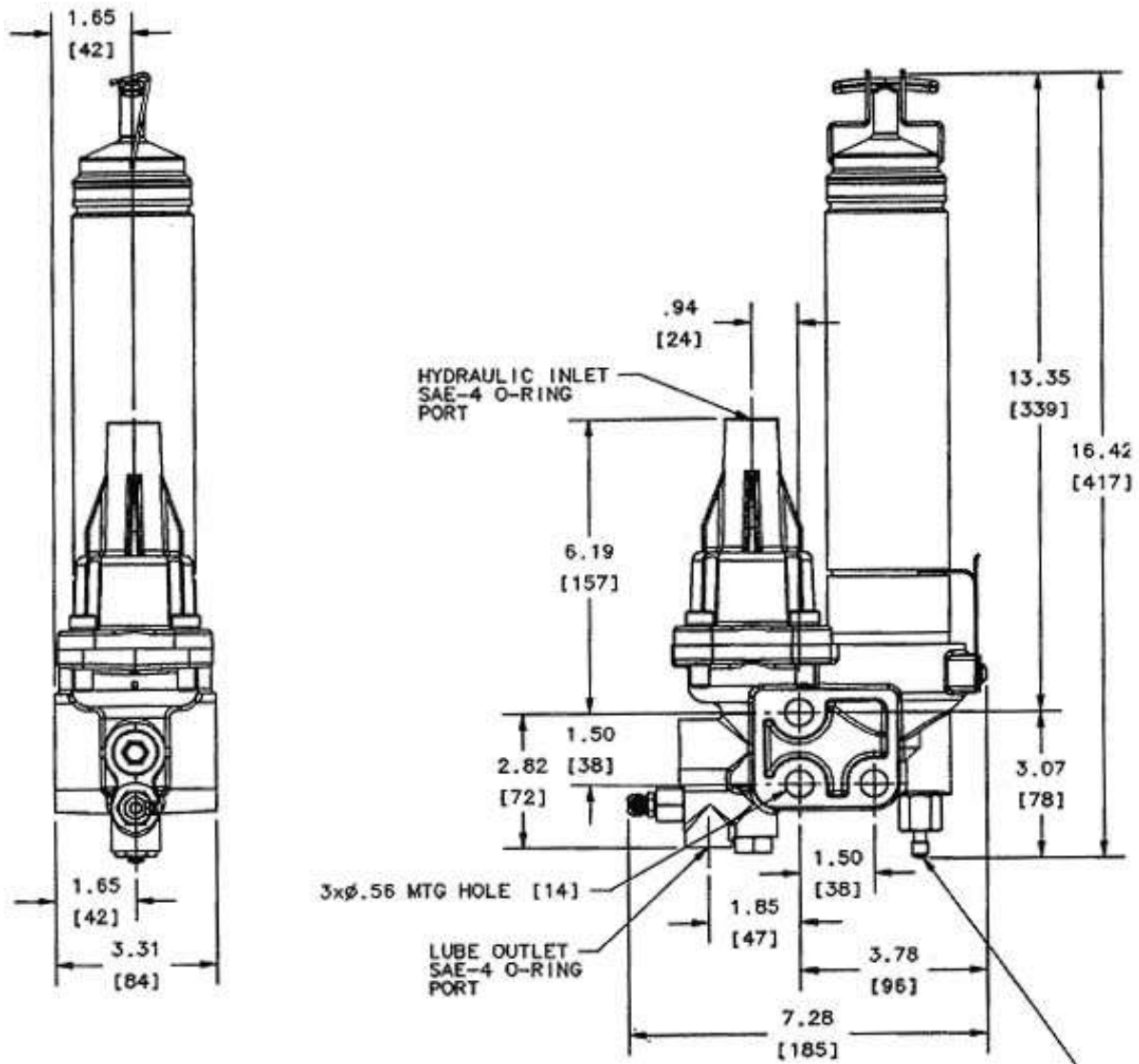


Fig. 4-1  
Pump 570968

## SECTION 5.0 INSTALLING BREAKERLUBE

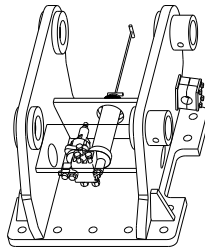
### 5.1 Mounting Considerations

The BreakerLube can be installed in any attitude, but for ease of servicing, be sure to observe the following recommendations when considering its location:

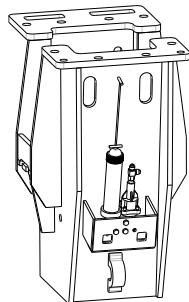
- Allow sufficient room for cartridge exchange
- Low level indicator within view of the operator
- Protection of pump and hoses against damage

Suitable mounting locations include:

- Top mounting bracket Figure 5-1
- Hammer housing Figure 5-2

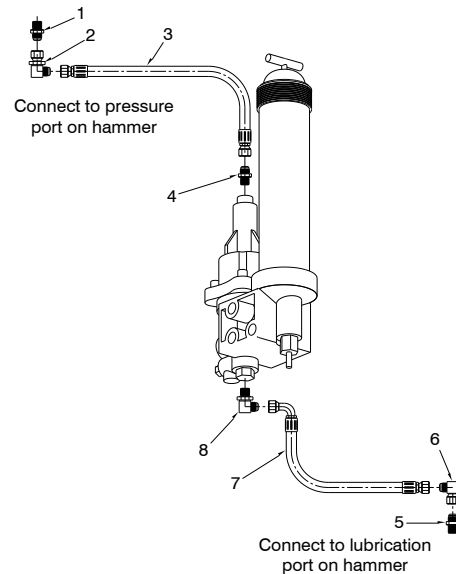


**Fig. 5-1**  
**Protected By the Top Mounting Bracket**



**Fig. 5-2**  
**Located Within View of Operator**

The BreakerLube operates simultaneously with the operation of the breaker. The hydraulic power needed to operate the lubricator will come from the breaker.



**Fig. 5-3**  
**Hydraulic and Lubricant Connections**

### 5.2 General Installation Instructions

Refer to Section 9.0 for a list of available kits. BreakerLube kits include installation instructions, hoses, connectors and hardware.

#### **! WARNING**



This equipment generates very high pressure. Use adequate protection to prevent splashing of material onto the skin or into the eyes. To avoid injury from injection, always relieve pressure from the pump and supply lines before servicing or repairing. If any fluid appears to penetrate the skin, seek immediate medical attention.

**WARNING**

Do not run any hydraulic lines through the operator's cab; they may leak or rupture, injuring the operator.

**IMPORTANT**

Avoid risk of fire or damage to the hoses from excessive heat. During welding shield all hydraulic hoses in the BreakerLube mounting vicinity.

**IMPORTANT**

Prevent damage to battery. Before performing welding, disconnect battery cables. Connect welder ground clamp close to welding point and make sure no electrical components are in ground path. Read and follow the instructions provided with the machinery used to power this Allied equipment for any additional safety precautions.



**IMPORTANT**

Care must be taken to ensure that fluids are contained while performing maintenance and service. Use a suitable container to collect fluids before any component containing fluids is disassembled. Clean up any spilled oil. Obey all local regulations for the disposal of these fluids.

**IMPORTANT**

Nominal inside diameter of the hydraulic line and lubricant line **MUST** be at least .25 in. (6.35mm)

## SECTION 6.0 SERVICE and MAINTENANCE

	<b>WARNING</b>
	<p>Avoid injury from injection, splashing fluid or moving parts. Always relieve pressure from hydraulic and lube lines before servicing or repairing. Wear protective eyewear. This equipment generates very high pressure. Use caution as material leaks from loose or ruptured components can inject fluid through the skin. Do not check for leaks with hands. If any fluid appears to penetrate the skin, seek immediate medical attention.</p>

<b>IMPORTANT</b>
<p>Never operate the hammer without grease. Tool and bushing will deteriorate rapidly if not sufficiently lubricated. Replace empty cartridges immediately. As the grease cartridge nears empty, the Low Level Indicator Rod will extend from bottom of pump.</p>

### 6.1 Low Level Indicator

The Low Level Indicator extends from bottom of pump when cartridge is empty. Refer to Figure 6-1.

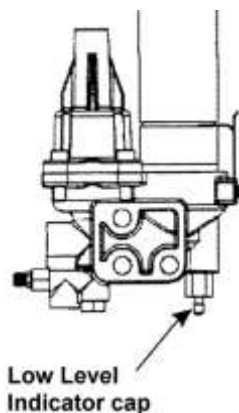



Fig. 6-1  
Low Level Indicator

### 6.2 Filling Pump with Grease or Changing Empty Cartridge

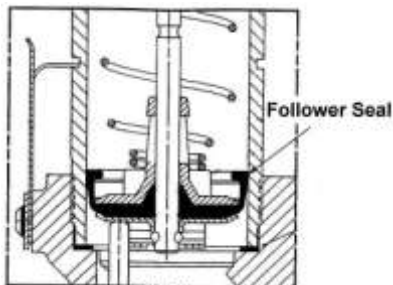
#### 6.2.1 Replace Empty Cartridge



Fig. 6-2  
Retaining Clip Attached to Follower Rod

	<b>CAUTION</b>
<p>Never service the BreakerLube while the hammer is operating. Ensure all loads are adequately supported before performing any service work. Service in safe work areas.</p>	

1. Turn off hammer.
2. Loosen the grease cartridge housing two full turns to break the seal.
3. Slide retaining clip off follower rod. Refer to Figure 6-2.
4. Pull the follower rod until it is fully extended. Latch the follower rod groove into slot in the tube cap.
5. Pull finger tab on spring clip until clip frees cartridge housing.
6. Unscrew housing from the pump head.
7. Carefully release the follower handle to eject the empty cartridge.



**Fig. 6-3 The Lip of the Follower Seal is Directed Toward Follower Handle (Cartridge Loading Position Shown)**

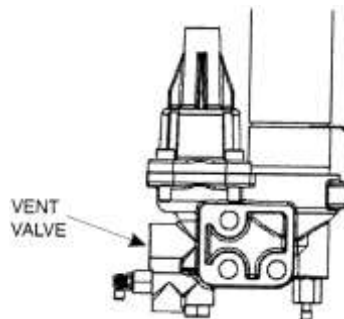
### 6.2.2 Install Grease Cartridge

1. If empty cartridge has not been removed, follow instructions in Section 6.2.1.
2. Visually check the follower seal. For cartridge loading, it must be installed as shown in Figure 6-3.
3. Pull follower rod out and latch.
4. Remove plastic cap from grease cartridge and insert cartridge into housing.
5. Remove pull-tab from cartridge.
6. Pull on spring clip (finger tab Figure 6-5) and install housing into pump head. Screw housing into pump head.
7. Release follower rod.
8. Purge air from pump. Follow instructions in Section 6.3.
9. Slip the retaining clip over the top of the follower handle.

### 6.3 Air Purging

1. Engage the follower rod with the follower by lightly pulling up and rotating the follower handle.

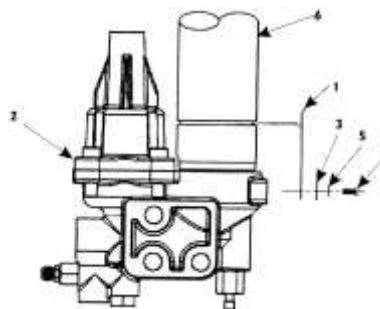
2. Push down on follower handle while pressing the button on Vent Valve to force any air pockets out of pump head. Wipe excess grease from Vent Valve.



**Fig. 6-4 Vent Valve**

### 6.4 Spring Clip

The spring clip has fingers that fit into a groove at the lower base of the grease cartridge housing. When the spring clip is tightened, the housing is held firmly in the pump head



**Fig. 6-5 Installing the Spring Clip**

#### **IMPORTANT**

**Before installing the spring clip, ensure that the gasket and grease cartridge housing are correctly in place.**

1. Assemble the spring clip to pump head using the plate, cap screws and lock washers as shown in Figure 6-5.



2. Adjust the fingers in the groove so that they hold the housing firmly to the pump head.

3. Tighten the two cap screws.

### 6.5 Manual Bulk Filling

**NOTE:** When filling the cartridge housing by either of these two methods: Manually (bulk) or Use of a hand pump Be sure the lip of the follower seal is directed toward the pump head.

1. Pull finger tab on reservoir retainer to disengage clip fingers from the housing groove.
2. Loosen the cartridge housing and remove from pump.
3. Check that the lip of the follower seal is oriented toward pump head.
4. Pack the bottom of the grease housing with grease to eliminate air pockets.
5. Dip the packed end of the housing about one inch into bulk container.
6. Slowly pull follower handle back while gradually pushing the housing deeper into the grease.
7. When the follower rod is fully extended, latch the rod in the housing cap.
8. Wipe excess grease from the outside of the housing.
9. Pull on spring clip finger tab and install housing into pump head. Screw housing into pump head.
10. If necessary, adjust spring clip as described in Section 6.4.
11. Slip retaining clip over the top of the follower handle.

### 6.6 Manual Filling with Hand Pump

**NOTE:** The cartridge housing can be replenished with a hand pump. To fill, remove Vent Valve and replace with Lube Fitting, part number 103284.

**NOTE:** When filling the cartridge housing by either of these two methods: Manually (bulk) or Use of a hand pump Be sure the lip of the follower seal is directed toward the pump head.

1. Remove Vent Valve and install Lube Fitting.
2. Slide retaining clip off follower rod. Engage the follower rod with the follower by lightly pulling up and rotating the follower handle.
3. Push the nozzle of the fill pump onto Lube Fitting (103284).
4. Observe follower rod while filling housing with hand pump. Cartridge housing is full when notch on follower rod is visible.
5. Disengage follower rod from follower and push follower rod into housing. Air purging is not required unless the housing was removed from the pump head.
6. Screw housing into pump head. If necessary, adjust spring clip by following details in Section 6.4.

### 6.7 Pre-fill Lubricant Line

#### IMPORTANT



**All lubricant lines must be completely purged of air pockets before operation. To fill grease line, disconnect lube line at hammer. Locate the grease nipple near vent valve. Using a hand grease gun, pump grease until all air pockets are purged.**

## 6.8 Pump Output Adjustment

The BreakerLube is equipped with metering plug part number 103281. If desired, the output can be adjusted by changing the metering plug with one of the optional plugs shown in Table 6-1.

Part Number	Output cu. in. [cc]
103680	0.006 [0.1]
103681	0.012 [0.2]
<b>103281 (Standard)</b>	<b>0.018 [0.3]</b>
103682	0.031 [0.5]

## 6.9 Daily Inspections

 <b>WARNING</b>	
	<p><b>Avoid injury from injection, splashing fluid or moving parts. Always relieve pressure from hydraulic and lube lines before servicing or repairing. Wear protective eyewear. This equipment generates very high pressure. Use caution as material leaks from loose or ruptured components can inject fluid through the skin. Do not check for leaks with hands. If any fluid appears to penetrate the skin, seek immediate medical attention.</b></p>

1. Before starting, visually inspect all hoses and connections to verify no leaks are occurring. Tighten all loose fittings.
2. Replace all damaged hoses.
3. Observe the position of the lubricant level indicator. The grease cartridge is empty when indicator is extended. Refer to Figure 6-1. Prompt replacement of empty cartridges is required to preserve uninterrupted delivery of lubricant to tool and bushings.

## 6.10 Working In High/Low Temperatures

The BreakerLube is powered by hydraulic oil from the carrier's hydraulic system. The oil temperature should never exceed 176°F (80°C).

The use of Allied Chisel Paste is recommended for all Allied models. Allied Chisel Paste can be used in a temperature range of 32° F to 122° F (0° C to 50° C).

If the system is to be used in temperatures below freezing, a cold weather paste must be used. In such cases, please consult Allied's Technical Service Department for recommended cold weather pastes.



## 6.11 Working Underwater

If the hammer is working underwater, the BreakerLube must be positioned on the carrier. The BreakerLube must remain above the surface of the water.

Tightened all fittings on the lubricant lines with particular care to avoid leaks.

For further details on underwater operation, contact Allied's Technical Service Department.

## SECTION 7.0 TROUBLESHOOTING



 <b>WARNING</b>	
	<p><b>Avoid injury from injection, splashing fluid or moving parts. Always relieve pressure from hydraulic and lube lines before servicing or repairing. Wear protective eyewear. This equipment generates very high pressure. Use caution as material leaks from loose or ruptured components can inject fluid through the skin. Do not check for leaks with hands. If any fluid appears to penetrate the skin, seek immediate medical attention.</b></p>



Problem	Cause	Remedy
<b>No Lubricant at Lubrication point</b>	Empty Lubricant cartridge	Install new cartridge. (Section 6)
	Lubricant cartridge installed incorrectly	Reinstall cartridge correctly. (Section 6)
	Follower seal damaged or positioned incorrectly	Check follower seal position. Replace follower seal if necessary. (Section 6)
	Pump draws air	Follower seal installed in wrong direction or damaged. Housing gasket damaged. Check valve malfunction.
	Air in pump or lubricant lines	Purge air until solid grease (no air bubbles) is discharged. (Section 6)
	Lubricant line blocked or restricted	Check hose, replace if necessary (maximum length 15 feet). Perform functional test with hose uncoupled. (Section 6)
	Hydraulic line to pump is closed or restricted	Open branch line from hammer pressure line.
	Insufficient pressure in hydraulic line to pump	Measure hydraulic pressure with gauge.
<b>Insufficient Lubricant Supply</b>	Incorrect metering plug	Install higher volume metering plug. (Table 6-1)
<b>Excessive Lubricant Supply</b>	Incorrect metering plug	Install lower volume metering plug. (Table 6-1)
<b>Incorrect Lubricant Supply</b>	Wrong type of lubricant	Observe lubricant recommendations. (Section 10)

If the BreakerLube fails to work properly and the cause cannot be immediately determined from the Troubleshooting Chart, contact Allied's Technical Service Department for further assistance.

## SECTION 8.0 REMOVAL AND STORAGE

### 8.1 Remove BreakerLube

	<b>CAUTION</b>
	Wear eye protection when operating or servicing this equipment.

	<b>CAUTION</b>
	Avoid injury from injection. This equipment generates very high pressure. Use caution as material leaks from loose or ruptured components can inject fluid through the skin. Always wear personal protective equipment when servicing or repairing this equipment. Never use hands to check for leaks. Use cardboard. Relieve pressure from hydraulic and lube lines before replacing grease cartridge. If any fluid appears to penetrate the skin, seek immediate medical attention. Regularly inspect hoses for damage. Replacement hoses must be the same type and pressure rating.

<b>IMPORTANT</b>
Contamination can affect operation and shorten life of components. Prevent dirt and debris from contaminating the pump and grease. Always clean the area around the ports and cartridge housing prior to removal.

<b>IMPORTANT</b>
Care must be taken to ensure that fluids are contained while performing maintenance and service. Use a suitable container to collect fluids before any component containing fluids is disassembled. Clean up any spilled oil. Obey all local regulations for the disposal of these fluids.

1. Relieve pressure from hydraulic and lube lines before service or repair.
2. Disconnect hydraulic and lubrication hoses from the BreakerLube.
3. Prevent contamination from entering the system. Plug openings to keep out dirt and debris.
4. Loosen and remove attachment bolts, nuts, and washers.
5. Remove the complete BreakerLube and store in a secure place.

**NOTE:** Reinstall mounting hardware on BreakerLube to avoid loss or damage.

### 8.2 Remove Hoses

Remove the two hoses connected at the hammer's hydraulic and lubrication ports. Cap the hose ends and thread plugs in to the open ports to prevent contamination.

### 8.3 Reattach BreakerLube After Idle Periods

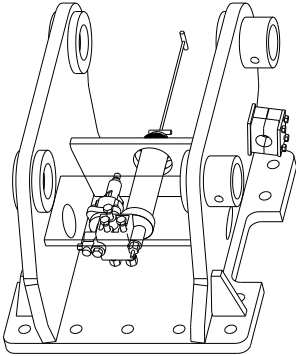
Clean the lubricant line and remove any blockages formed by residual lubricant.

Refer to SECTION 5.0 BreakerLube Installation.

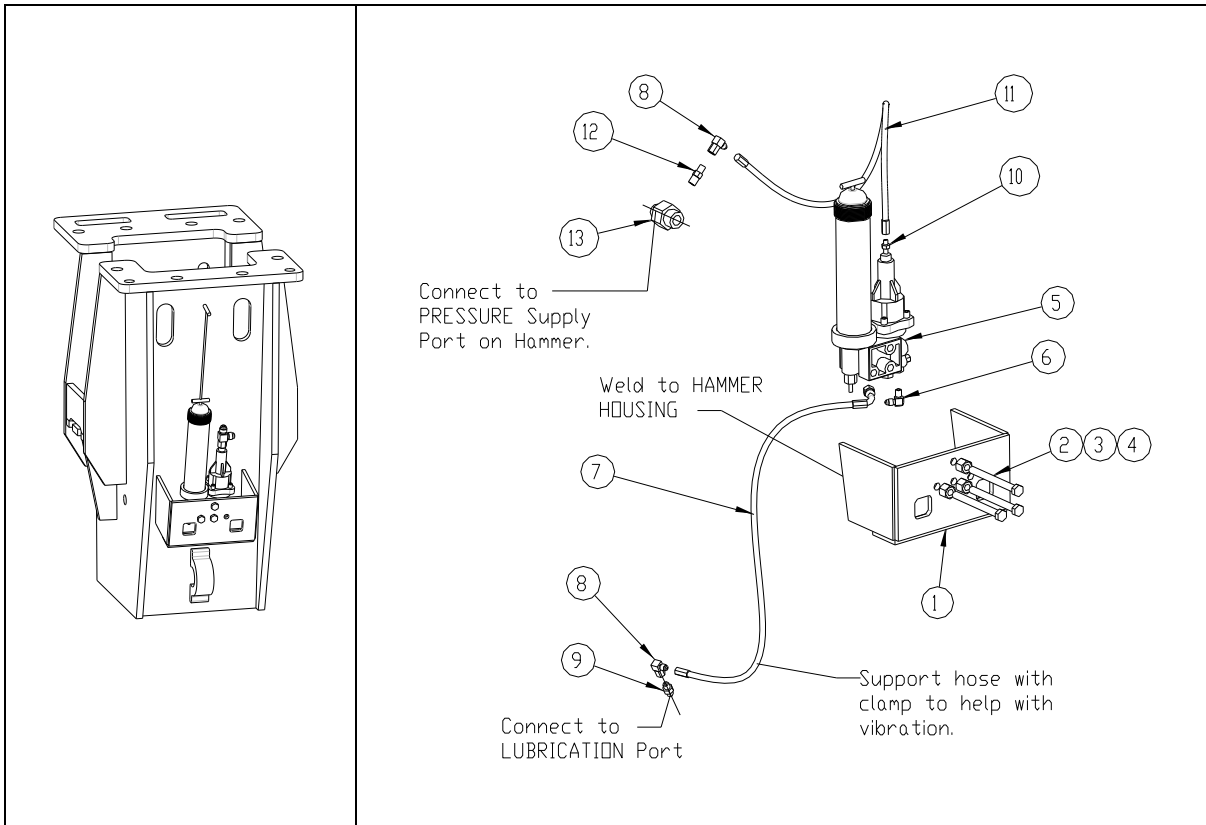
## SECTION 9.0 INSTALLATION KITS

The kits listed in Table 9-1 are designed for specific hammer models. The mounting location for the BreakerLube is typically on the top-mounting bracket, as shown in

Figure 9-1. Brackets include a pre-drilled mounting plate for mounting the BreakerLube within the protection of the mounting lugs.

<b>Table 9-1 BreakerLube™ Kits</b>		
<b>Kit No.</b>	<b>Hammer Model</b>	<b>Mounting Location</b>
571463	Sandvik BR927 (S27), BR1229 (S29)	 <p style="text-align: center;"><b>Fig. 9-1 Top mounting Bracket</b></p>
571282	Sandvik BR2064 (E64)	
572285	Sandvik BR2266 (E66N), BR2268 (E68)	
571277	Sandvik BR3890 (G90), BR4510 (G100), BR4511 (G110)	
572019	AR 110B	
571438	AR 120B, AR 130B, AR 140B, AR 160C, AR 170C	
572286	Sandvik BR2266 (E66N), BR2268 (E68)	Weld bracket to housing - Figure 9-2
571281	Sandvik BR3890 (G90), BR4510 (g100), BR4511 (G110)	Weld bracket to side plates
572569	AR 95, B	Weld bracket to side plates
570190	Rammer, Sandvik or Allied Skid-Steer Bracket	Weld bracket to skid-steer bracket

(Indicates Former Rammer Models)



**Fig. 9-2**  
BreakerLube located on housing

**Fig. 9-3**  
BreakerLube Kit

Item	Qty	Part No.	Description	Remarks / Specifications
1	1	103885	Bracket	
2	3	832023	HHCS	
3	3	708512	FL Washer	
4	3	813289	Hex Nut	
5	1	570968	Pump	
6	1	Varies	Connector	Items 6 thru 13 vary with hammer model. See kit instructions for details.
7	1	Varies	Hose	
8	2	Varies	Connector	
9	1	Varies	Connector	
10	1	Varies	Connector	
11	1	Varies	Hose	
12	1	Varies	Connector	
13	1	Varies	Connector	

## SECTION 10.0 Allied Chisel Paste

The hammer’s tool and bushings are made from high quality, heat-treated alloy steel. Yet, infrequent greasing and improper operating techniques will cause rapid deterioration and render both unusable. Replacing these parts can be costly, both in terms of down time and price.

When choosing a grease to lubricate the hammer’s tool and bushings, it’s important to recognize that the “right type” is equally important as “how much” and “how often”.

The use of Allied Chisel Paste is strongly recommended for all Allied hammer models. Developed as a specialty lubricant, Allied Chisel Paste provides metal surfaces with superior protection against friction related wear and damage.

Allied Chisel Paste is formulated with solid lubricants, which are key anti-friction ingredients. Solid lubricants, in addition to conventional liquid lubricants, are beneficial, especially in applications involving extreme pressure. Solids maintain a high-strength boundary between the tool and bushing that effectively reduces friction and the damage caused when side loads are generated.

In comparison, lubricants labeled as “General Purpose”, or “Multi-Purpose” typically do not contain solid lubricants. Lubricants of this type are less likely to provide the protection needed for use in hammer applications. These types are usually formulated with only a liquid lubricant. When subjected to heavy side loading, the lubricant is squeezed out, leaving nothing to protect the tool and bushing from friction related damage. And unless the label specifies it as a high temperature grease, it will lose its ability to cling when the tool gets hot.

Each time the breaker is put to work, the tool and bushing are subjected to extreme

pressure, heat and abrasive dust. Everyday wear-and-tear will take its toll and no other hammer component receives more punishment than the tool and bushing. But when attention is paid to maintenance, including timely lubrication, and with regular use of Allied Chisel Paste, and when operated by a skilled operator, wear of these parts will be minimized and service life extended.

### Allied Chisel Paste Specifications

- NLGI No. 2
- Synthetic Thickened, Petroleum Base Oil
- Solid lubricants include molybdenum disulfide (MoS<sub>2</sub>), graphite and copper
- Dropping Point 500° F Min.
- Oil Viscosity 750 to 850 SUS
- Temperature Range -20° F to 350° F Min
- Application methods include brushing, grease gun and all Allied automatic lubricators

**IMPORTANT**

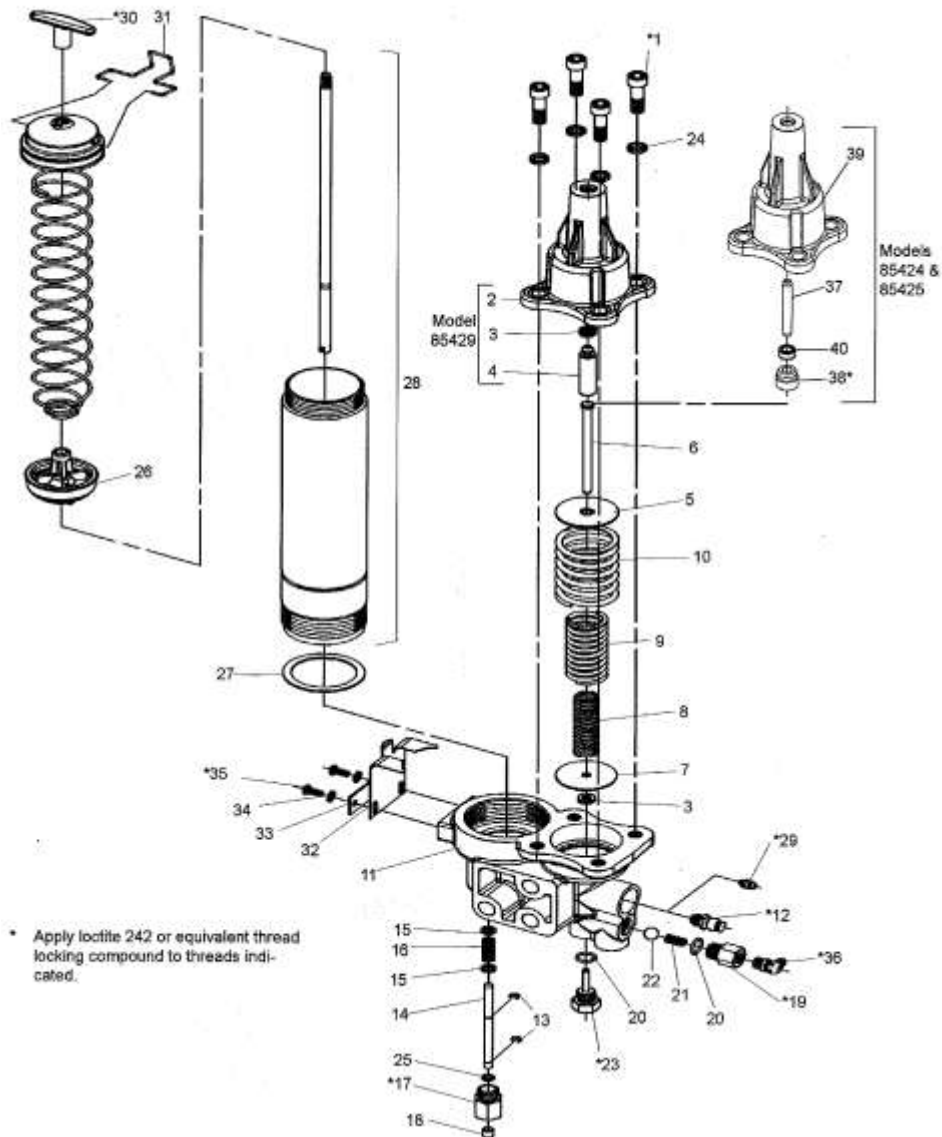
**APPLICATION RESTRICTION - Chisel Paste is NOT suitable for roller bearings as damage may result.**

<b>Table 10-1 Packaging / Ordering Information</b>	
<b>Packaging</b>	<b>Part No.</b>
14oz Tubes x 10	574430
14oz Tubes x 30	574431
14oz Tube. Fits BreakerLube and standard hand operated grease guns.	

## SECTION 11.0 PARTS INFORMATION

**IMPORTANT**

**Non-approved parts may cause loss of performance or equipment damage. Use only genuine Allied replacement parts to protect total warranty coverage.**



**Fig. 11-1**  
**Pump Assembly**  
**85425 [570968]**  
**85429 [103270]**



## SECTION 11.0 PARTS INFORMATION

Item	Qty	Part No.	Description	Remarks / Specifications
---	1	570968 <sup>(1)</sup>	Pump Assembly	BreakerLube (AutoLube B)
---	1	103270 <sup>(2)</sup>	Pump Assembly	(Former model AutoLube IV)
1	4	103271	Cap Screw	<sup>(b)</sup> 3/8-16 Socket Head
2	1	103272	Cylinder Block	<sup>(2)</sup>
3	2	103683	U-Cup	<sup>(a)</sup> <sup>(2)</sup>
4	1	571276	Piston	<sup>(2)</sup>
5	1	103274	Spring Retainer	
6	1	103275	Plunger	
7	1	103276	Washer	
8	1	103065	Spring	
9	1	103066	Spring	
10	1	103067	Spring	
11	1	103277	Pump Head	
12	1	103069	Vent Valve	<sup>(b)</sup>
13	2	103070	Retaining Ring	
14	1	103278	Indicator Rod	
15	2	103072	Washer	
16	1	103073	Spring	
17	1	103279	Bushing	<sup>(b)</sup>
18	1	103075	Indicator Cap	<sup>(a)</sup>
19	1	103280	Check Plug	<sup>(b)</sup>
20	2	103684	O-Ring	<sup>(a)</sup>
21	1	103077	Spring	

<sup>(1)</sup> For figures 11-1 and 11-2 follow reference to [85425] 570968

<sup>(2)</sup> For figures 11-1 and 11-2 follow reference to [85429] 103270

<sup>(a)</sup> Indicates items included in seal kit. Parts furnished in seal kit fit both 570968 & 103270 pumps.

<sup>(b)</sup> Apply Loctite 242 or equivalent to threads

## SECTION 11.0 PARTS INFORMATION (cont'd)

Item	Qty	Part No.	Description	Remarks / Specifications
---	1	570968 <sup>(1)</sup>	Pump Assembly	BreakerLube (AutoLube B)
---	1	103270 <sup>(2)</sup>	Pump Assembly	(Former model AutoLube IV)
22	1	103078	Check Ball	(a)
23	1	103281	Metering Plug	(b) Furnished in all units unless change is requested. For other plug options see Table 7-1.
24	4	814696	Lock washer	(a) 3/8 High Collar
25	1	103685	O-ring	(a)
26	1	103283	Follower Assembly	
27	1	103080	Packing	(a)
28	1	103081	Grease Cartridge housing	Includes Items 26 & 30
29	1	103284	Fill Fitting	
30	1	103285	Follower Handle	(b)
31	1	103087	Retainer Clip	
32	1	103088	Spring Clip	
33	1	103089	Plate	
34	1	798220	Lock washer	#10
35	1	103090	Cap Screw	(b) #10 Button Head
36	1	708717	Grease Fitting	(b) 90°
37	1	571274	Piston	(1)
38	1	571275	Packing Retainer	(b) (1)
39	1	571273	Cylinder Block	(1)
40	1	571276	U cup	(a) (1)
---	1	103286	Seal Kit	(a) Indicates items included in seal kit

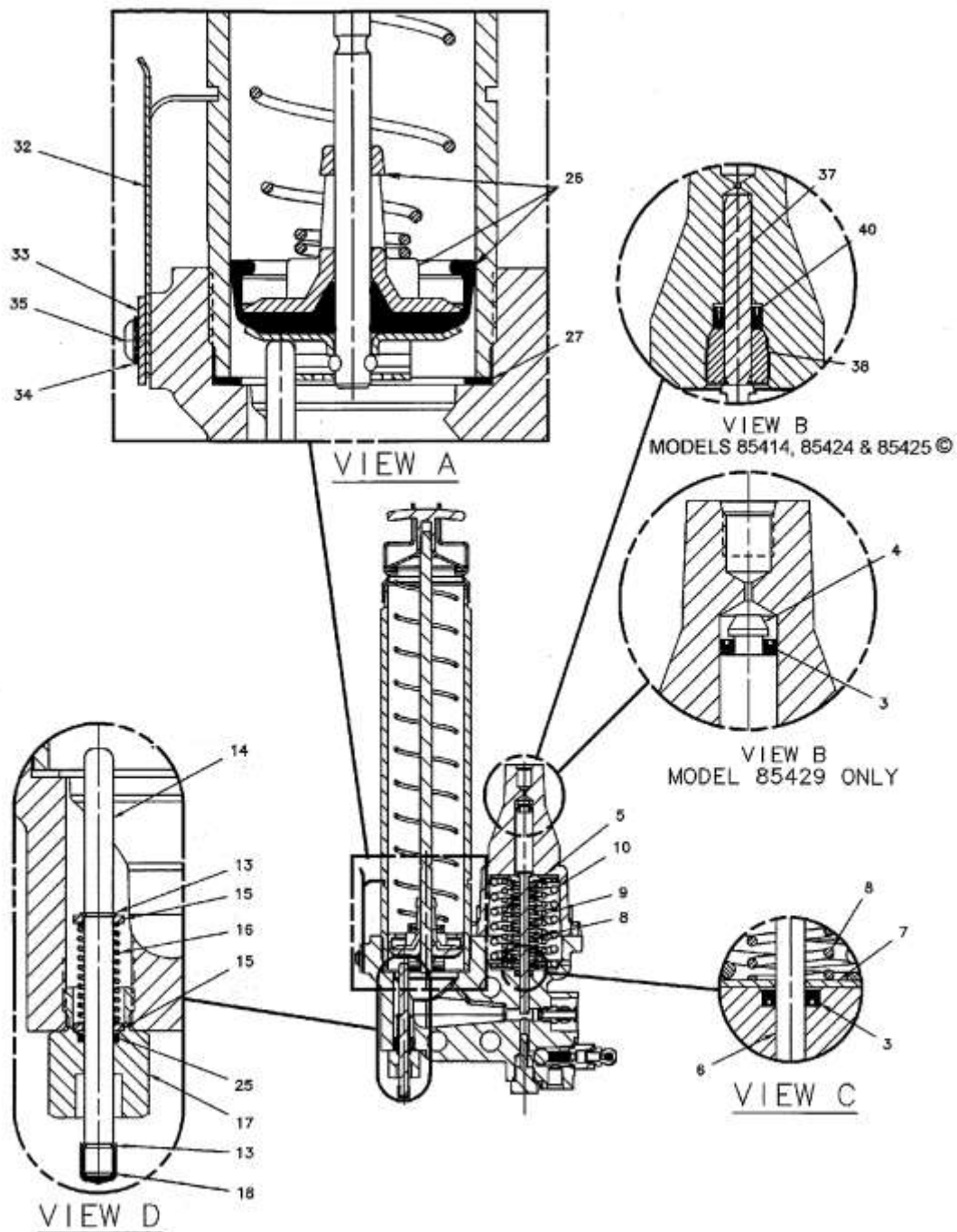
<sup>(1)</sup> Pump 570968 - Follow reference to [85425] in Figures 11-1 and 11-2

<sup>(2)</sup> Pump 103270 - Follow reference to [85429] in Figures 11-1 and 11-2

(a) Indicates items included in seal kit. Parts furnished in seal kit fit both 570968 & 103270 pumps.

(b) Apply Loctite 242 or equivalent to threads

## SECTION 11.0 PARTS INFORMATION



**Fig. 11-2**  
**Pump Assembly**  
**570968 [85425]**  
**103270 [85429]**







3900 Kelley Avenue, Cleveland, Ohio 44114  
Tel: 216-431-2600 Fax: 216-431-2601  
e-mail: [Sales@AlliedCP.com](mailto:Sales@AlliedCP.com)  
website: <http://www.AlliedCP.com>