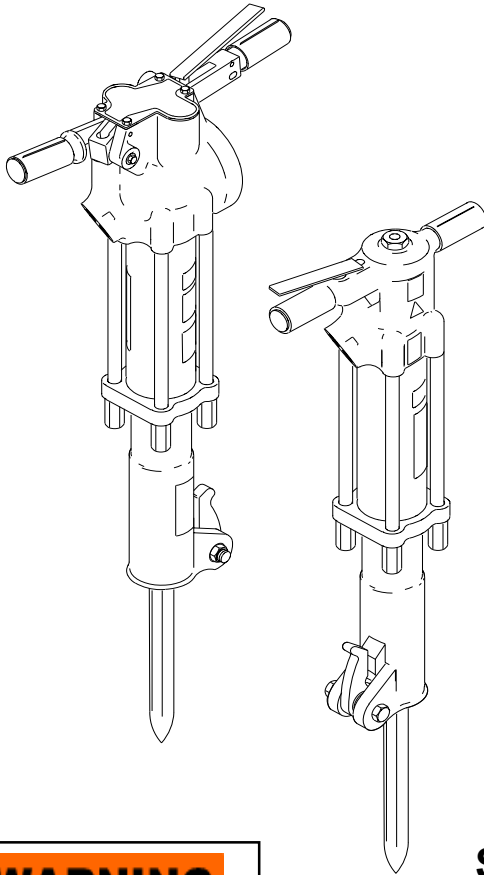


# BR67

## HYDRAULIC BREAKER



### **⚠ WARNING**

SERIOUS INJURY OR DEATH  
COULD RESULT FROM THE IM-  
PROPER REPAIR OR SERVICE  
OF THIS TOOL.

REPAIRS AND / OR SERVICE TO  
THIS TOOL MUST ONLY BE  
DONE BY AN AUTHORIZED AND  
CERTIFIED DEALER.

### Safety, Operation and Service User's Manual



Read  
The  
Manual



Wear  
Breathing  
Protection



Wear  
Hearing  
Protection



Wear  
Eye  
Protection

# STANLEY

®



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Works

OPS/SERVICE USA & CE VERSION  
31994 Ver 5 04/2003

#### Stanley Hydraulic Tools

3810 SE Naef Road  
Milwaukie, OR 97267-5698 USA  
Phone: (503) 659-5660  
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**SERVICING BR67 BREAKERS:** This manual contains safety, operation, Service and routine maintenance instructions. Stanley Hydraulic Tools recommends that servicing of hydraulic tools, other than routine maintenance, must be performed by an authorized and certified dealer. Please read the following warning.

## **WARNING**

**SERIOUS INJURY OR DEATH COULD RESULT FROM THE IMPROPER REPAIR OR SERVICE OF THIS TOOL.**

**REPAIRS AND / OR SERVICE TO THIS TOOL MUST ONLY BE DONE BY AN AUTHORIZED AND CERTIFIED DEALER.**

For the nearest authorized and certified dealer, call Stanley Hydraulic Tools at one of the numbers listed on the back of this manual and ask for a Customer Service Representative.

# CERTIFICATE OF CONFORMITY



I, the undersigned:

Winterling, David

Surname and First names

**Hereby certify that the construction plant or equipment specified hereunder:**

1. Manufacturer: **Stanley Hydraulic Tools, 3810 Naef Road, Milwaukie, Oregon USA**
2. Representative in the Union: **Stanley Svenska AB, Box 9054, 400 92 Göteborg, SWEDEN**
3. Category: **Hydraulic Hand Held Concrete Breaker**
4. Make: **Stanley Hydraulic Tools**
5. Type: BR6713801, BR6717201, BR6717202, BR6717801
6. Type serial number of equipment: **All**
7. Year of manufacture: **Beginning 2002**

Has been manufactured in conformity with the provisions of the Machinery Directive 98/37/EC

Harmonized standard applied: **EN 792-4**

We also declare that it meets the specification of Noise Directive 2000/14/EC, measured in accordance to the Conformity Evaluation Method set out in Annex VI para. 5 and evaluated during production as in Annex VI para. 6, 2 nd procedure.

8. Noise related value: **31 kg**
9. Measured sound power on equipment representative of this type: **107 LwA**
10. Guaranteed sound power level for this equipment: **112 LwA**

11. Notified body for EC directive 2000/14/EC: **0404** SMP Svensk Maskinprovning AB  
Fyrisborgsgatan 3  
754 50 Uppsala, SWEDEN

12. Special Provisions: **None**

Issued at Stanley Hydraulic Tools, Milwaukie, Oregon USA  
Date: 8/21/02

Signature

A handwritten signature in black ink, appearing to read "David Winterling".

Position: Engineering Manager

## SAFETY SYMBOLS

Safety symbols and signal words, as shown below, are used to emphasize all operator, maintenance and repair actions which, if not strictly followed, could result in a life-threatening situation, bodily injury or damage to equipment.



This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

**⚠ DANGER**

This safety alert and signal word indicate an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**⚠ WARNING**

This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**⚠ CAUTION**

This safety alert and signal word indicate a potentially hazardous situation which, if not avoided, may result in minor or moderate injury.

**CAUTION**

This signal word indicates a potentially hazardous situation which, if not avoided, may result in property damage.

**NOTICE**

This signal word indicates a situation which, if not avoided, will result in damage to the equipment.

**IMPORTANT**

This signal word indicates a situation which, if not avoided, may result in damage to the equipment.

Always observe safety symbols. They are included for your safety and for the protection of the tool.

**⚠ WARNING**

**SOME HYDRAULIC FLUIDS ARE FLAMMABLE, NEVER ALLOW THESE HYDRAULIC FLUIDS TO COME IN CONTACT WITH AN OPEN FLAME.**

**IF A HOSE WERE TO BURST OR IF A TOOL LEAK OCCURS NEXT TO AN OPEN FLAME, THESE HYDRAULIC FLUIDS WILL IGNITE AND COULD RESULT IN SERIOUS INJURY OR DEATH.**

## LOCAL SAFETY REGULATIONS

Enter any local safety regulations here. Keep these instructions in an area accessible to the operator and maintenance personnel.

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# SAFETY PRECAUTIONS





















Tool operators and maintenance personnel must always comply with the safety precautions given in this manual and on the stickers and tags attached to the tool and hose.

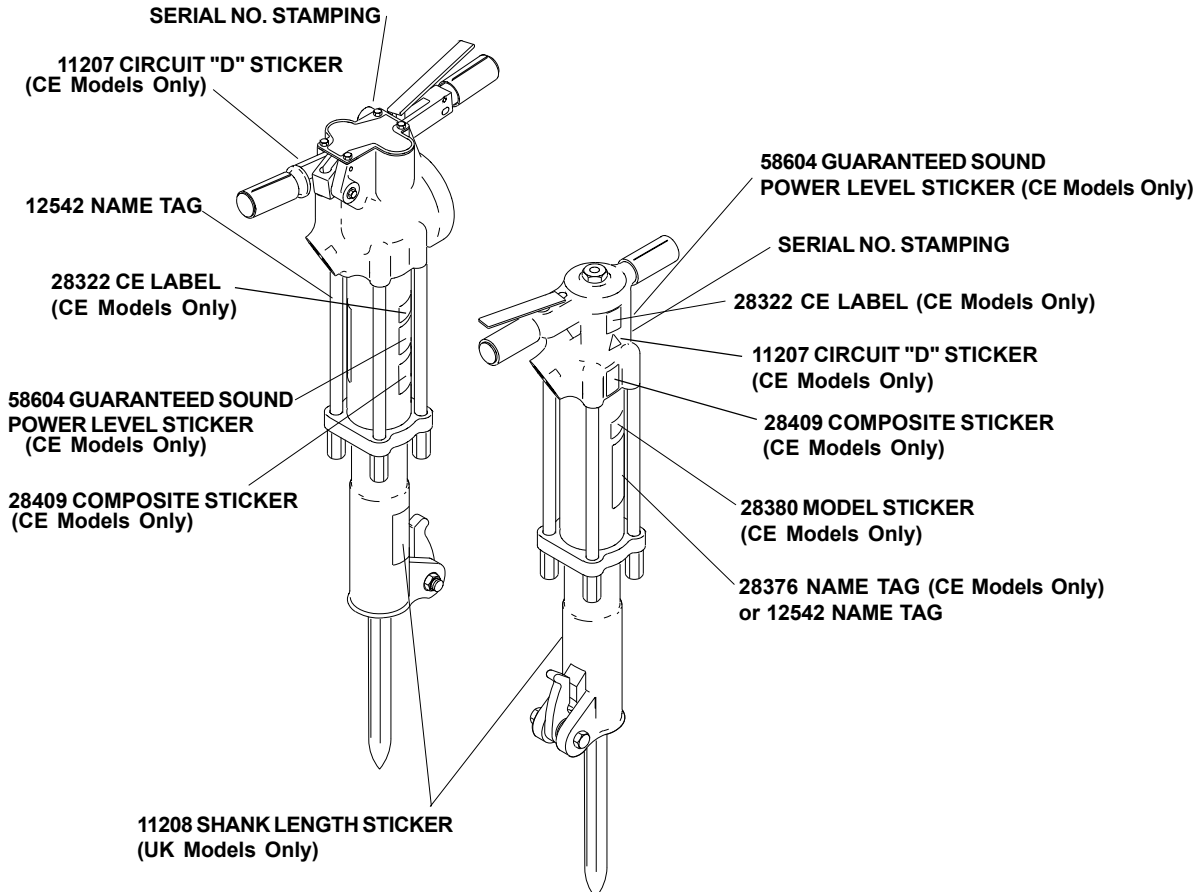
These safety precautions are given for your safety. Review them carefully before operating the tool and before performing general maintenance or repairs.

Supervising personnel should develop additional precautions relating to the specific work area and local safety regulations. If so, place the added precautions in the space provided on page 3.

This tool will provide safe and dependable service if operated in accordance with the instructions given in this manual. Read and understand this manual and any stickers and tags attached to the tool and hoses before operation. Failure to do so could result in personal injury or equipment damage.

-  Operator must start in a work area without bystanders. The operator must be familiar with all prohibited work areas such as excessive slopes and dangerous terrain conditions.
-  Establish a training program for all operators to ensure safe operations.
-  Do not operate the tool unless thoroughly trained or under the supervision of an instructor.
-  Always wear safety equipment such as goggles, head protection, and safety shoes at all times when operating the tool.
-  Do not inspect or clean the tool while the hydraulic power source is connected. Accidental engagement of the tool can cause serious injury.
-  Do not operate this tool without first reading the Operating Instructions.
-  Do not install or remove this tool while the hydraulic power source is connected. Accidental engagement of the tool can cause serious injury.
-  Never operate the tool if you cannot be sure that underground utilities are not present. Underground electrical utilities present an electrocution hazard. Underground gas utilities present an explosion hazard. Other underground utilities may present other hazards.
-  Do not wear loose fitting clothing when operating the tool. Loose fitting clothing can get entangled with the tool and cause serious injury.
-  Supply hoses must have a minimum working pressure rating of 2500 psi/175 bar.
-  Check fastener tightness often and before each use daily, also make sure all hose connections are tight.
-  The hydraulic circuit control valve must be in the "OFF" position when coupling or uncoupling the tool. Wipe all couplers clean before connecting. Failure to do so may result in damage to the quick couplers and cause overheating. Use only lint-free cloths.
-  Do not operate the tool at oil temperatures above 140° F/60° C. Operation at higher oil temperatures can cause operator discomfort and may cause damage to the tool.
-  Do not operate a damaged, improperly adjusted, or incompletely assembled tool.
-  To avoid personal injury or equipment damage, all tool repair, maintenance and service must only be performed by authorized and properly trained personnel.
-  Do not exceed the rated limits of the tool or use the tool for applications beyond its design capacity.
-  Always keep critical tool markings, such as labels and warning stickers legible.
-  Always replace parts with replacement parts recommended by Stanley Hydraulic Tools.

# TOOL STICKERS & TAGS



The safety tag (p/n 15875) at right is attached to the tool when shipped from the factory. Read and understand the safety instructions listed on this tag before removal. We suggest you retain this tag and attach it to the tool when not in use.

**DANGER**

1. FAILURE TO USE HYDRAULIC HOSE LABELED AND CERTIFIED AS NON-CONDUCTIVE WHEN USING HYDRAULIC TOOLS ON OR NEAR ELECTRICAL LINES MAY RESULT IN DEATH OR SERIOUS INJURY.  
  
BEFORE USING HOSE LABELED AND CERTIFIED AS NON-CONDUCTIVE ON OR NEAR ELECTRIC LINES BE SURE THE HOSE IS MAINTAINED AS NON-CONDUCTIVE. THE HOSE SHOULD BE REGULARLY TESTED FOR ELECTRIC CURRENT LEAKAGE IN ACCORDANCE WITH YOUR SAFETY DEPARTMENT INSTRUCTIONS.
2. A HYDRAULIC LEAK OR BURST MAY CAUSE OIL INJECTION INTO THE BODY OR CAUSE OTHER SEVERE PERSONAL INJURY.
  - A. DO NOT EXCEED SPECIFIED FLOW AND PRESSURE FOR THIS TOOL. EXCESS FLOW OR PRESSURE MAY CAUSE A LEAK OR BURST.
  - B. DO NOT EXCEED RATED WORKING PRESSURE OF HYDRAULIC HOSE USED WITH THIS TOOL. EXCESS PRESSURE MAY CAUSE A LEAK OR BURST.
  - C. CHECK TOOL HOSE COUPLERS AND CONNECTORS DAILY FOR LEAKS. DO NOT FEEL FOR LEAKS WITH YOUR HANDS. CONTACT WITH A LEAK MAY RESULT IN SEVERE PERSONAL INJURY.

**IMPORTANT**

READ OPERATION MANUAL AND SAFETY INSTRUCTIONS FOR THIS TOOL BEFORE USING IT.

USE ONLY PARTS AND REPAIR PROCEDURES APPROVED BY STANLEY AND DESCRIBED IN THE OPERATION MANUAL.

TAG TO BE REMOVED ONLY BY TOOL OPERATOR.

SEE OTHER SIDE 15875

**DANGER**

- D. DO NOT LIFT OR CARRY TOOL BY THE HOSES. DO NOT ABUSE HOSE. DO NOT USE KINKED, TORN OR DAMAGED HOSE.
3. MAKE SURE HYDRAULIC HOSES ARE PROPERLY CONNECTED TO THE TOOL BEFORE PRESSURING SYSTEM. SYSTEM PRESSURE HOSE MUST ALWAYS BE CONNECTED TO TOOL "IN" PORT. SYSTEM RETURN HOSE MUST ALWAYS BE CONNECTED TO TOOL "OUT" PORT. REVERSING CONNECTIONS MAY CAUSE REVERSE TOOL OPERATION WHICH CAN RESULT IN SEVERE PERSONAL INJURY.
4. DO NOT CONNECT OPEN-CENTER TOOLS TO CLOSED-CENTER HYDRAULIC SYSTEMS. THIS MAY RESULT IN LOSS OF OTHER HYDRAULIC FUNCTIONS POWERED BY THE SAME SYSTEM AND/OR SEVERE PERSONAL INJURY.
5. BYSTANDERS MAY BE INJURED IN YOUR WORK AREA. KEEP BYSTANDERS CLEAR OF YOUR WORK AREA.
6. WEAR HEARING, EYE, FOOT, HAND AND HEAD PROTECTION.
7. TO AVOID PERSONAL INJURY OR EQUIPMENT DAMAGE, ALL TOOL REPAIR MAINTENANCE AND SERVICE MUST ONLY BE PERFORMED BY AUTHORIZED AND PROPERLY TRAINED PERSONNEL.

**IMPORTANT**

READ OPERATION MANUAL AND SAFETY INSTRUCTIONS FOR THIS TOOL BEFORE USING IT.

USE ONLY PARTS AND REPAIR PROCEDURES APPROVED BY STANLEY AND DESCRIBED IN THE OPERATION MANUAL.

TAG TO BE REMOVED ONLY BY TOOL OPERATOR.

SEE OTHER SIDE 15875

SAFETY TAG P/N 15875 (shown smaller than actual size)

# TOOL STICKERS & TAGS

## BR67 BREAKER

SERIAL NO.  
 FLOW 7-9 GPM/26-34 LPM  
 PRESS 1500-2000 PSI  
 105-140 BAR  
 ACCUMULATOR CHG  
 600 PSI/42 BAR  
 NITROGEN



A name tag sticker is attached to the breaker.  
 Never exceed the flow and pressure levels  
 specified on this sticker.

The information listed on the name tag sticker  
 must be legible at all times. Replace this  
 sticker if it becomes worn or damaged. A re-  
 placement is available from your local Stanley  
 distributor.



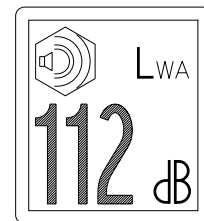
**CE STICKER p/n 28322**  
 (shown approx size)



**CIRCUIT "D" STICKER**  
 p/n 11207  
 (shown smaller than actual size)

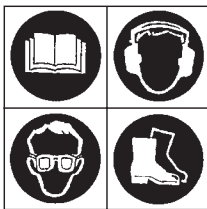


**STANLEY LABEL STICKER**  
 p/n 28376  
 (shown smaller than actual  
 size)

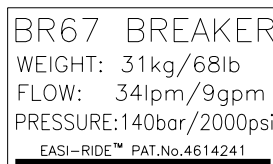


**GUARANTEED SOUND POWER  
 LEVEL STICKER**  
 p/n 58604  
 (shown smaller than actual size)

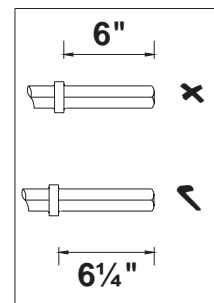
**NAME TAG STICKER p/n 12542**  
 or p/n 29203  
 (shown smaller than actual size)



**COMPOSITE STICKER**  
 p/n 28409  
 (shown smaller than actual size)



**MODEL No. LABEL**  
 p/n 28380  
 (CE Models Only)



**HEX SHANK STICKER p/n 11208**  
 (UK Models Only)

# HYDRAULIC HOSE REQUIREMENTS

## HOSE TYPES

Hydraulic hose types authorized for use with Stanley Hydraulic Tools are as follows:

- 1 Certified non-conductive
- 2 Wire-braided (conductive)
- 3 Fabric-braided (not certified or labeled non-conductive)

Hose **1** listed above is the only hose authorized for use near electrical conductors.

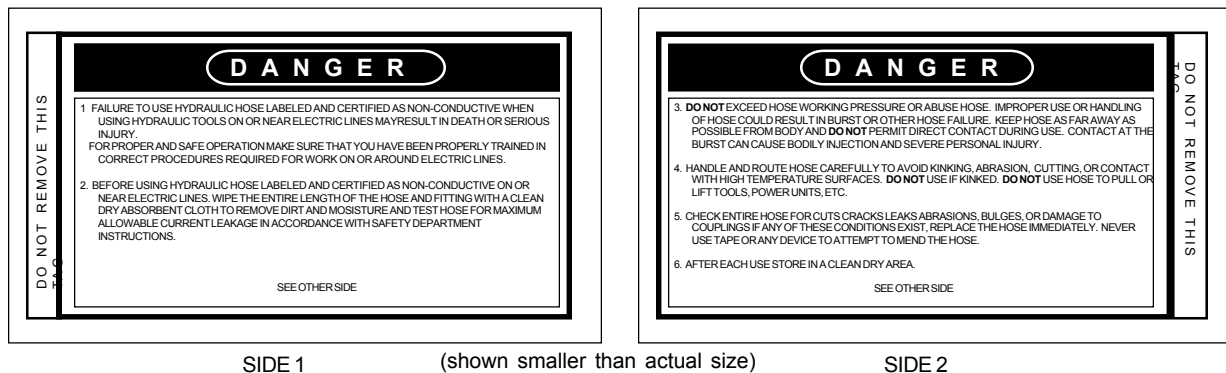
Hoses **2** and **3** listed above are **conductive** and **must never** be used near electrical conductors.

To help ensure your safety, the following DANGER tags are attached to all hose purchased from Stanley Hydraulic Tools. DO NOT REMOVE THESE TAGS.

If the information on a tag is illegible because of wear or damage, replace the tag immediately. A new tag may be obtained at no charge from your Stanley Distributor.

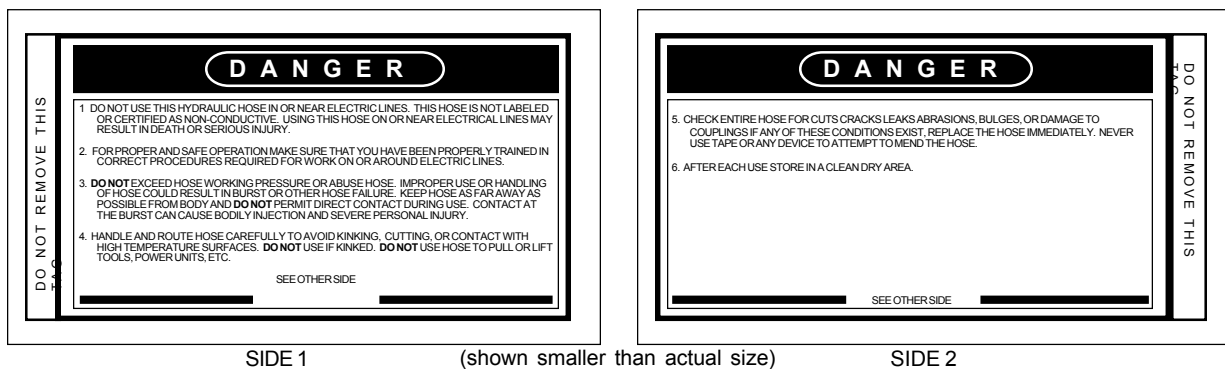
### 1 CERTIFIED NON-CONDUCTIVE HOSE

This tag is attached to all certified **non-conductive** hose.



### 2 AND 3 WIRE-BRAIDED AND FABRIC-BRAIDED (NOT CERTIFIED OR LABELED NON-CONDUCTIVE) HOSE

This tag is attached to all **conductive** hose.





## HOSE PRESSURE RATING

The rated working pressure of the hydraulic hose **must be equal or higher than** the relief valve setting on the hydraulic system.



# HTMA Requirements

Hydraulic System Requirements	Tool Category:		Type III
	 C	 D	
	Type I	Type II	
<b>Flow rate</b> Tool Operating Pressure <i>(at the power supply outlet)</i>	4-6 GPM (15-23 lpm) 2000 psi (138 bar)	7-9 GPM (26-34 lpm) 2000 psi (138 bar)	11-13 GPM (42-49 lpm) 2000 psi (138 bar)
<b>System relief valve setting</b> <i>(at the power supply outlet)</i>	2100-2250 (145-155 bar)	2100-2250 (145-155 bar)	2100-2250 (145-155 bar)
<b>Maximum back pressure</b> <i>(at tool end of the return hose)</i>	250 psi (17 bar)	250 psi (17 bar)	250 psi (17 bar)
Measured at a max. fluid viscosity of: <i>(at min. operating temperature)</i>	400 SSU (82 centistokes)	400 SSU (82 centistokes)	400 SSU (82 centistokes)
<b>Temperature</b> Sufficient heat rejection capacity to limit max. fluid temperature to: <i>(at max. expected ambient temperature)</i>	140° F (60° C)	140° F (60° C)	140° F (60° C)
Min. cooling capacity at a temperature difference of between ambient and fluid temps	3 hp (2.24 kW) 40° F (22° C)	5 hp (3.73 kW) 40° F (22° C)	7 hp (5.22 kW) 40° F (22° C)
<b>NOTE:</b> Do not operate the tool at oil temperatures above 140° F (60° C). Operation at higher temperatures can cause operator discomfort at the tool.			
<b>Filter</b> Min. full-flow filtration sized for flow of at least: <i>(For cold temp. startup and max. dirt-holding capacity)</i>	25 microns 30 GPM (114 lpm)	25 microns 30 GPM (114 lpm)	25 microns 30 GPM (114 lpm)
<b>Hydraulic fluid</b> Petroleum based <i>(premium grade, anti-wear, non-conductive)</i>			
Viscosity <i>(at min. and max. operating temps)</i>	100-400 SSU* (20-82 centistokes)	100-400 SSU* (20-82 centistokes)	100-400 SSU* (20-82 centistokes)
<b>NOTE:</b> When choosing hydraulic fluid, the expected oil temperature extremes that will be experienced in service determine the most suitable temperature viscosity characteristics. Hydraulic fluids with a viscosity index over 140 will meet the requirements over a wide range of operating temperatures.			

\*SSU = Saybolt Seconds Universal

**NOTE: These are general hydraulic system requirements. See tool Specification page for tool specific requirements.**

# Equipment Protection and Care

## NOTICE

In addition to the Safety Precautions on page 3 & 4 of this manual, observe the following for equipment protection and care.

- Make sure all couplers are wiped clean before connection.
- The hydraulic circuit control valve must be in the “OFF” position when coupling or uncoupling hydraulic tools. Failure to do so may result in damage to the quick couples and cause overheating of the hydraulic system.
- Always store the tool in a clean dry space, safe from damage or pilferage.
- Make sure the circuit PRESSURE hose (with male quick disconnect) is connected to the “IN” port. The circuit RETURN hose (with female quick disconnect) is connected to the opposite port. Do not reverse circuit flow. This can cause damage to internal seals.
- Always replace hoses, couplings and other parts with replacement parts recommended by Stanley Hydraulic Tools. Supply hoses must have a minimum working pressure rating of 2500 psi/172 bar.
- Do not exceed the rated flow (see Specifications) page 19 in the manual for correct flow rate and model number. Rapid failure of the internal seals may result.
- Always keep critical tool markings, such as warning stickers and tags legible.
- Do not force a small breaker to do the job of a large breaker.
- Keep tool bit sharp for maximum breaker performance. Make sure that tool bits are not chipped or rounded on the striking end.
- Never operate a breaker without a tool bit or without holding it against the work surface. This puts excessive strain on the breaker foot.
- Tool repair should be performed by experienced personnel only.
- Make certain that the recommended relief valves are installed in the pressure side of the system.
- Do not use the tool for applications for which it was not intended.

## PREOPERATION PROCEDURES

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### ● PREPARATION FOR INITIAL USE

Each unit as shipped has no special unpacking or assembly requirements prior to usage. Inspection to assure the unit was not damaged in shipping and does not contain packing debris is all that is required.

### ● CHECK HYDRAULIC POWER SOURCE

1. Using a calibrated flowmeter and pressure gauge, check that the hydraulic power source develops a flow of 7-9 gpm/26-34 lpm at 1500-2000 psi/105-140 bar.
2. Make certain the hydraulic power source is equipped with a relief valve set to open at 2100-2250 psi/145-155 bar minimum.
3. Check that the hydraulic circuit matches the tool for open-center (OC) operation.

### ● CHECK TOOL

1. Make sure all tool accessories are correctly installed. Failure to install tool accessories properly can result in damage to the tool or personal injury.
2. There should be no signs of leaks.
3. The tool should be clean, with all fittings and fasteners tight.

### ● CHECK TRIGGER MECHANISM

1. Check that the trigger operates smoothly and is free to travel between the "ON" and "OFF" positions.

### ● CONNECT HOSES

1. Wipe all hose couplers with a clean lint-free cloth before making connections.
2. Connect the hoses from the hydraulic power source to the hose couplers on the breaker. It is a good practice to connect the return hose first and disconnect it last to minimize or avoid trapped pressure within the breaker.
3. Observe flow indicators stamped on hose couplers to be sure that oil will flow in the proper direction. The female coupler is the inlet coupler.  
**NOTE: The pressure increase in uncoupled hoses left in the sun may result in making them difficult to connect. When possible, connect the free ends of operating hoses together.**

---

## OPERATING PROCEDURES

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1. Observe all safety precautions.
2. Move the hydraulic circuit control valve to the "ON" position.
3. Place the tool bit firmly on the surface to be broken.
4. Squeeze the trigger to start the breaker. Adequate down pressure is very important.

**NOTE:** Partially depressing the trigger allows the tool to operate at a slow speed, making it easy to start the tool bit into the surface to be broken.

---

## COLD WEATHER OPERATION

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If the breaker is to be used during cold weather, preheat the hydraulic fluid at low engine speed. When using the normally recommended fluids, fluid temperature should be at or above 50° F/10° C (400 ssu/82 centistokes) before use.

# SERVICE INSTRUCTIONS

Good maintenance practices will keep the breaker on the job and increase its service life.

A very important maintenance practice is to keep the hydraulic fluid clean at all times. Contaminated hydraulic fluid causes rapid wear and/or failure of internal parts.

Follow the procedures contained in the HYDRAULIC SYSTEM REQUIREMENTS section of this manual to ensure peak performance from the tool. Never disassemble the breaker unless proper troubleshooting procedures have isolated the problem to an internal part. Then, only disassemble it to the extent necessary to replace the defective part. KEEP CONTAMINANTS SUCH AS DIRT AND GRIT AWAY FROM INTERNAL PARTS AT ALL TIMES.

Always determine and correct the cause of the problem prior to reassembly. Further wear and tool failure can result if the original cause is not corrected.

## DISASSEMBLY

### PRIOR TO DISASSEMBLY

- Clean the exterior of the tool.
- Obtain a seal kit to replace all seals exposed during disassembly. Note the orientation of seals before removing them. Install new seals in the same position as original seals.

### HANDLE & ACCUMULATOR DISASSEMBLY Standard Handle Models Refer To Illustration 2.

1. Secure the breaker in a bench vise, with the “IN” and “OUT” ports up, clamping on the flow sleeve tube between the side rods. Soft vise jaws are recommended.

2. Remove the pigtail hose assemblies.

**Note:** The breaker is full of fluid and will drip from the ports when the hoses are removed.

3. Remove the valve cap assembly (74) from the top of the handle. Loosen the 5/8-inch hex charging valve lock nut 1-1/2 turns. Discharge the accumulator down to approximately 20 psi/1.4 bar.

### IMPORTANT

**Do not completely discharge the accumulator at this time.**

4. Remove the four side rod nuts (66). Remove the breaker foot assembly (61 or 87) by tapping the top of the flange with a plastic or rubber hammer to drive it from the flow sleeve tube (40). Remove the o-ring, rod wiper and cup seal (62, 63 & 65) from the foot using the proper o-ring tools to avoid damage to grooved surfaces.

5. Remove the handle assembly (59) from the flow sleeve assembly (40) by tapping on alternate ends of the side rods (46) with a plastic or rubber hammer while pulling on the handle.

### AUTOMATIC VALVE BODY & ACCUMULATOR ASSEMBLY

6. If the automatic valve body (56) remains in the handle assembly, the accumulator assembly and automatic valve body can be removed by placing a 3/4-inch hex deep socket with a 6-inch/15 cm extension over the charging valve (21) and tapping the extension with a plastic or rubber hammer.

**Note:** Make sure the thin washer (42) between the automatic valve body and the accumulator chamber (79) is properly located in its counterbore before driving the automatic valve body and accumulator out of the handle.

7. If the accumulator cylinder (70) remains inside the handle, it can be removed using the accumulator cylinder puller (Part Number 05640) which seats on the inside lower contour of the accumulator cylinder. Use a rod that extends through the charge valve hole in the handle and drive out the cylinder by tapping on the rod or use a slide hammer through the 1/2-inch/12.5 mm hole provided in the puller.

8. If the entire accumulator assembly was removed in step 4, discharge the accumulator assembly completely and proceed to step 7.

9. To remove the accumulator chamber and diaphragm (51) from the accumulator cylinder, Place

the assembly on disassembly tools (Part Numbers 05508 and 04910). Use a rag in the bottom of the flow sleeve removal tube (Part Number 04910) to protect the accumulator chamber. Drive the chamber and diaphragm out by tapping or pushing with an arbor press on the charge valve end while protecting the valve with a 3/4-inch hex deep socket.

10. Squeeze the accumulator diaphragm and slide it off the charge valve end of the accumulator chamber.

11. Remove the cup seal (43) and back-up washer (37) from the accumulator chamber.

12. Secure the accumulator chamber in a vise with soft jaws to remove the charging valve.

## **IMPORTANT**

**Avoid damage to the counterbore of the chamber.**

### **TRIGGER**

13. Remove the trigger (12) from the handle by driving out the 1/4-inch/6.4 mm diameter Spirol Pin.

### **VALVE SPOOL**

14. Remove the valve spool (7) by driving out two 3/16 x 1-3/8 inch/5 mm x 35 mm roll pins (77) and tap the end of the spool. The valve spring (8) will eject the spool from the bore bringing the washer and bushing with it.

15. Remove the valve spool spring by turning the handle on end.

16. Remove the orifice plug (30) from the bottom of the valve spool bore with a long 1 1/4-inch hex wrench.

## **HANDLE & ACCUMULATOR DISASSEMBLY Anti-Vibration Handle Models Refer to Illustration 1.**

1. Remove the modified plug (20) and discharge the accumulator completely.

2. Remove the four side rod nuts (66). Remove the foot assembly (61) by tapping the top of the flange with a plastic or rubber hammer to drive it from the flow sleeve tube (40). Remove the o-ring, rod seal and cup seal (62, 63 & 65) from the foot using the proper o-ring tools to avoid damage to grooved surfaces.

3. Remove the handle assembly from the flow sleeve assembly by tapping on alternate ends of the side rods with a plastic or rubber hammer while pulling on the handle.

4. If the automatic valve body (56) remains in the handle assembly, it can be removed by using a special tool (30939 sleeve & 05046 bearing puller).

5. The spacer is removed by using a 7/8 inch collet (30956 collet) and a bearing puller from the 05064 bearing puller kit.

6. The sintered filter (33) and o-rings (34) are removed by simply picking them out.

### **ACCUMULATOR**

7. Clamp the handle assembly in a vice with soft jaws and unscrew the charge valve (21). Make sure the accumulator has been discharged before removing the charge valve.

8. Unscrew the accumulator plug (52) using special tool 29135 accumulator plug wrench.

9. Lift out the accumulator diaphragm (51).

### **TRIGGER**

10. Remove 4 capscrews (9) and lift off the top plate (92).

11. Unscrew the two pivot screws (49) and lift out the two handles (11 & 13) and four springs (24 & 25). Remove the lever (10) and trigger (12) from the handle by driving out the roll pins (23).

### **VALVE SPOOL**

12. Remove the spirolox retaining ring, then remove the SAE plug (32) located at the bottom of the spool bore. Pick out the spring (8) and then push the valve spool (7) out.

## **FLOW SLEEVE TUBE DISASSEMBLY**

1. Follow steps 1 through 3 of the HANDLE AND ACCUMULATOR DISASSEMBLY for STANDARD HANDLES or steps 1 through 3 for ANTI-VIBRATION HANDLES.

2. If the automatic valve body remains in the flow sleeve tube, complete the following steps.

- a. Remove the washer (42) and piston (17).
- b. Place the split rings (p/n 04908) between the automatic valve body and flow sleeve tube.
- c. Place the flow sleeve assembly (with split rings in place) on the flow sleeve removal tube (p/n 04910) with the automatic valve body down.
- d. Using an arbor press and an aluminum disc or accumulator cylinder puller (p/n 05640) to protect the flow sleeve, push on the flow sleeve (45) to remove the automatic valve body.

## IMPORTANT

**Use a rag in the bottom of the removal tube to protect the automatic valve body when it drops out.**

- e. The automatic valve body, automatic valve (47), four 5/16 x 2-inch/8 mm x 51 mm push pins (54) from the flow sleeve and two 3/16 x 1-1/4 inch/5 mm x 32 mm push pins (48) from the automatic valve body will come out.

3. Remove the flow sleeve from the flow sleeve tube (40) as follows:

- a. Place the split ring (p/n 04908) on top of the flow sleeve removal tube (p/n 04910).
- b. Place the flow sleeve tube assembly on top of split rings.
- c. With an arbor press, and an aluminum disc or accumulator cylinder puller (p/n 05640) to protect the flow sleeve, push the flow sleeve out of the tube.

## IMPORTANT

**Use a rag in the bottom of the removal tube to protect the flow sleeve when it drops out.**

## FOOT DISASSEMBLY

1. Follow steps 2 and 3 of the HANDLE AND ACCUMULATOR DISASSEMBLY for STANDARD HANDLES or steps 3 and 4 for ANTI-VIBRATION HANDLES.
2. Remove the latch (67) by first removing the nut (68), washer (58) and bolt (60).
3. The detent (70) and spring (69) can be removed after the latch is removed.

4. The hex bushing (53) is removed by pressing it out using a 100 ton press.

## EASI-RIDE™ FOOT

To remove the collar support (83) and spring (82) follow the steps below.

1. Follow steps 2 and 3 above to remove the latch, detent and spring.
2. Press down on the collar support (83) from the latch end to retract it from the retaining ring (a long bolt with large washers may be placed through the foot assembly to hold the collar support in the retracted position).
3. Using a small punch, insert it through the hole in the foot (87) and press on the retaining ring (85). Hook the retaining ring with a hook type tool and pull it out.
4. Pull the collar support and spring out.
5. The hex bushing (81) is removed by pressing it out using a 100 ton press.

## ASSEMBLY

### PRIOR TO ASSEMBLY

- Clean all parts with a degreasing solvent.
- Ensure that all seals exposed during disassembly are replaced with new parts.
- Apply clean grease or o-ring lubricant to all parts during assembly.
- Obtain a seal kit so that all seals exposed during disassembly can be replaced. **Note:** For orientation of parts identified in the following procedures, see the parts illustration.

### HANDLE ASSEMBLY

Standard Handle Models  
Refer to Illustration 2.

1. Install the orifice plug (30) in the bottom of the valve spool bore with a long 1/4-inch hex wrench.
2. Replace (in this order) the spring (8), valve spool (Caution: the valve spool is a two peice spool, a spool and spool rod with an o-ring attached to the spool rod. Make sure the spool rod is properly seated in the spool and that they do not separate during installation into the valve spool bore. (7), bushing (4) (with wiper ring (3) toward stem end of valve spool) and washer (2) in the valve spool Bore.

Secure by driving the two 3/16 x 1-5/8 inch/5 x 41 mm spiro pins (77) through the handle on top of the washer.

3. Replace the trigger (12). Install a 1/4-inch/6.4 mm diameter spiro pin (72). To ease installation of the pin, align the trigger with a 1/4-inch/6 mm diameter rod or punch from the opposite side of the handle.

## HANDLE ASSEMBLY Anti-Vibration Handle Models Refer to Illustration 1.

1. Install the orifice plug (30) through the bottom port (OUT PORT) into the threaded hole near the bottom of the spool bore.

2. Place the accumulator valve block (50) on a bench top with trigger handle side down. Lubricate an o-ring (34) and place it into the bottom of the bore in the valve block. Place the sintered filter (33) on top of this o-ring. Lubricate another o-ring (34) and place it on top of the sintered filter.

3. Lubricate o-ring (35) and install it onto the spacer (36). Install the backup washer (37) and cup seal (43) (with lips facing out) into the bore in the spacer. Install the completed assembly into the accumulator valve block.

4. Install the SAE plug (32).

5. Turn the valve block over (trigger handle side up). Install (in this order) the spring (8), valve spool (Caution: the valve spool is a two piece spool, a spool and spool rod with an o-ring attached to the spool rod. Make sure the spool rod is properly seated in the spool and that they do not separate during installation into the valve spool bore. (7), bushing (with rod wiper (3), o-ring (6) and o-ring (5) installed) and washer into the valve spool bore. Secure by installing the spirolox retaining ring (1).

6. Install the springs (24) and (25).

7. Install the trigger (12) into the trigger handle (13) and secure with a spiro pin (23). Install the lever (10) into the trigger handle and secure with a spiro pin. Install the completed assembly onto the accumulator valve block and secure with a pivot screw (49) applied with Kopr-Kote antiseize compound and Loctite on the threads.

8. Install the handle (11) onto the accumulator valve block and secure with a pivot screw applied with Kopr-Kote antiseize compound and Loctite on the threads.

9. Place the top plate (92) over the top of the accumulator valve block and secure with 4 capscrews (9).

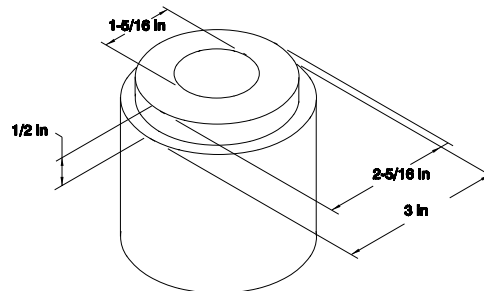
10. Set the completed assembly aside.

## FLOW SLEEVE TUBE ASSEMBLY

The best way to assemble the flow sleeve (45), automatic valve body (56) and piston (17) is by using an assembly fixture such as that shown in figure 1. The fixture permits the parts to be stacked vertically during the assembly process. After the parts are stacked, the handle assembly can then be placed on top of the stacked parts and tapped into place.

The assembly fixture shown in figure 1 should be constructed of aluminum or brass and should be at least 3-1/2 in/88 mm high but no more than 8 in/203 mm high.

The instructions in this section require the use of the assembly fixture shown in figure 1. If a fixture cannot be acquired, use an assembled foot assembly and clamp it into a vice.



**Figure 1.**

1. Lubricate the flow sleeve (45) and install it into the flow sleeve tube (40). Orientation is as shown in the parts illustration. The flow sleeve has a wide groove around the outside of one end. Install this end first. Then place the flow sleeve tube and flow sleeve on top of the assembly fixture shown in figure 1.

2. Apply grease and install an o-ring (44) onto the flow sleeve tube.

3. Apply lubricant and install 4 push pins (54) into the holes in the top of the flow sleeve. One end of each push pin contains a machined surface. This surface must be facing up as each push pin is installed. Each push pin must slide freely in or out of the hole in the flow sleeve. If a push pin does not slide freely or seems to stick, the hole may contain contamination or the top edge of the hole contains a burr. Remove burrs with a deburring tool, clean the

hole thoroughly and try the push pin again.

4. Tap the roll pin (55) into the hole on the automatic valve body (56).

5. Apply grease and install an o-ring (44) onto the valve body (56).

6. Lubricate and install 2 push pins (48) into the holes in the valve body. One end of each push pin contains a machined surface. This surface must be facing up as each push pin is installed. Each push pin must slide freely in or out of the hole in the valve body. If a push pin does not slide freely or seems to stick, the hole may contain contamination or the top edge of the hole contains a burr. Remove burrs with a deburring tool, clean the hole thoroughly and try the push pin again.

7. Lubricate the automatic valve (47) and install it into the valve body. The automatic valve must freely slide back and forth. If it does not, the valve body or valve may contain contaminants or the bore of the valve body contains burrs. Remove the push pins and scrub the bore of the valve body with emery cloth and then thoroughly clean the bore, push pin holes and valve. Reinstall the push pins and valve.

8. Grasp the automatic valve body and valve so that one or more fingers are gripping the valve to prevent it and the push pins from falling out when the valve body and valve are turned upside down (roll pin facing down). Place the assembly on top of the flow sleeve making sure the roll pin aligns with the appropriate hole in the flow sleeve.

9. Lubricate and install the piston (17) into the top of the automatic valve body.

10. Install the washer (42), smaller diameter first, over the stem of the piston and onto the automatic valve body.

11. If you are working with a standard handle model, proceed to the steps below. If you are working with an anti-vibration handle model, proceed to step 1. under "INSTALLING THE HANDLE ASSEMBLY, for Anti-Vibration Handle Models".

#### **ACCUMULATOR - Standard Handle Models Only**

12. Screw the charging valve (21) into the accumulator chamber.

13. Apply a light coating of WD-40 to the accumulator diaphragm (51) and accumulator chamber (79) and slide the accumulator diaphragm onto the accumulator chamber from the charging valve end.

14. Use grease or rubber lubricant on the inside of the accumulator cylinder (70) and the outside diameter of the diaphragm. Push the accumulator chamber and diaphragm, charging valve end first, halfway into the accumulator cylinder. The parts are assembled from the end of the cylinder with the chamfer on the outside diameter. Be sure the accumulator diaphragm is free of wrinkles and the seal bead is in its groove before completing the assembly. An arbor press is required to completely seat the assembly using short movements during the last 1/2-inch/12 mm of travel to gently seat the diaphragm.

### **IMPORTANT**

**Do not use a hammer or powered arbor press.**

15. Test charge the accumulator assembly as follows:

a. Place the accumulator assembly in a vise with soft jaws clamping on ends of the accumulator chamber. Do not overtighten the vise and distort the accumulator cylinder.

b. Loosen the charging valve lock nut 1-1/2 turns.

c. Charge the accumulator with nitrogen to 600 psi/41 bar. (It may be necessary to charge it 50-75 psi/3.4-5 bar high to overcome the pressure drop through the charging system.)

d. Check for leaks.

16. Apply grease and install a new o-ring (35) around the accumulator cylinder. Apply grease and install a new back-up washer (37) and cup seal (43) (lips facing out) in the accumulator chamber counterbore.

17. Install the accumulator assembly over the stem of the piston and down to the top of the automatic valve body.

### **INSTALLING THE HANDLE ASSEMBLY**

#### **Standard Handle Models**

**Refer to Illustration 2.**

1. Apply grease liberally to the o-ring surfaces on the accumulator, automatic valve body, flow sleeve tube and to the bore of the handle assembly.



2. Place the handle assembly over the top of the accumulator and then tap it down until the lower part of the handle block covers the o-ring on the flow sleeve tube.

3. Lay the completed handle and flow sleeve assembly over being careful to prevent movement of the flow sleeve when the assembly fixture is removed.

4. Place the completed assembly horizontally (oil ports up) in a vice with soft jaws and clamp on the flow sleeve tube.

5. Follow steps 1 through 6 of the "FOOT ASSEMBLY" for installation of the foot assembly.

6. Charge the accumulator with 600 psi/42 bar nitrogen as described in the "CHARGING THE ACCUMULATOR" section.

7. Install the valve cap (74).

## **INSTALLING THE HANDLE ASSEMBLY**

### **Anti-Vibration Handle Models**

**Refer to Illustration 1.**

1. Apply grease liberally to the o-ring surfaces on the automatic valve body, flow sleeve, the cup seal in the spacer and the bore of the handle assembly.

2. Place the handle assembly over the piston and automatic valve being careful to align the spacer with the stem of the piston. Tap the handle down until the lower part of the handle block covers the o-ring on the flow sleeve tube.

3. Lay the completed handle and flow sleeve assembly over being careful to prevent movement of the flow sleeve when the assembly fixture is removed.

4. Place the completed assembly horizontally (accumulator up) in a vice with soft jaws and clamp on the flow sleeve tube.

5. Follow steps 1 through 6 of the "FOOT ASSEMBLY" for installation of the foot assembly.

## **ACCUMULATOR**

6. Lubricate the diaphragm (51) inside and out with WD40 and install it into the handle.

7. Apply Kopr-Kote antiseize to the thread surfaces of the accumulator plug (52) and handle assembly and install the accumulator plug. Tighten to 200 lb. ft./270

Nm using special tool 29135 Accumulator Plug Wrench.

8. Install the charge valve (21).

9. Charge the accumulator with 600 psi/42 bar nitrogen as described in the "CHARGING THE ACCUMULATOR" section.

10. Install the plug (20).

## **FOOT ASSEMBLY**

1. If the hex bushing was removed, reinstall it using a 50 ton press making sure the hex is properly aligned for the tool bit.

2. If servicing an EASI-RIDE™ foot, install the spring (82) and collar support (83) followed by the retaining ring (85).

3. Apply grease and install the rod wiper (63) below the seal insert.

4. Install the seal carrier (64) into the bottom of the flow sleeve tube.

5. Apply grease and install the cup seal (65) into the seal carrier.

6. Apply grease and install the o-ring (62).

7. Install the spring (69) and detent (70). Install the two rubber sleeves (57). Place a washer (58) over the bolt (60), place the latch (67) between the two ears on the foot and push the bolt through it. Place a washer (58) on the thread end of the bolt and then thread on the nut (68). Tighten the nut until the treaded end of the bolt is even with the outside surface of the nut.

8. Install the foot over the side rods and into the flow sleeve tube.

9. Install the four side rod nuts. Tighten in 20 ft lb/25 Nm increments to 75 ft lb/100 Nm in a cross pattern.

# CHARGING THE ACCUMULATOR

## CHARGING THE ACCUMULATOR

To check or charge the accumulator the following equipment is required:

- Accumulator tester (Part Number 02835).
- Charging assembly (Part Number 15304) (includes a gauge w/snub valve, hose and fitting).
- NITROGEN bottle with a 800 psi/56 bar minimum charge.

1. On charge valves containing 5/8 inch hex locking nuts, first loosen the locking nut 1-1/2 turns.
2. Holding the chuck end of the Stanley tester (p/n 02835), turn the gauge fully counterclockwise to ensure the stem inside the chuck is completely retracted.
3. Thread the tester onto the charging valve of the tool accumulator (do not advance the gauge-end into the chuck end. Turn as a unit). Seat the chuck on the accumulator charging valve and hand tighten only.
4. Advance the valve stem by turning the gauge- end clockwise.
5. Connect the charge fitting on the hose to the charge valve on the 02835 Tester.

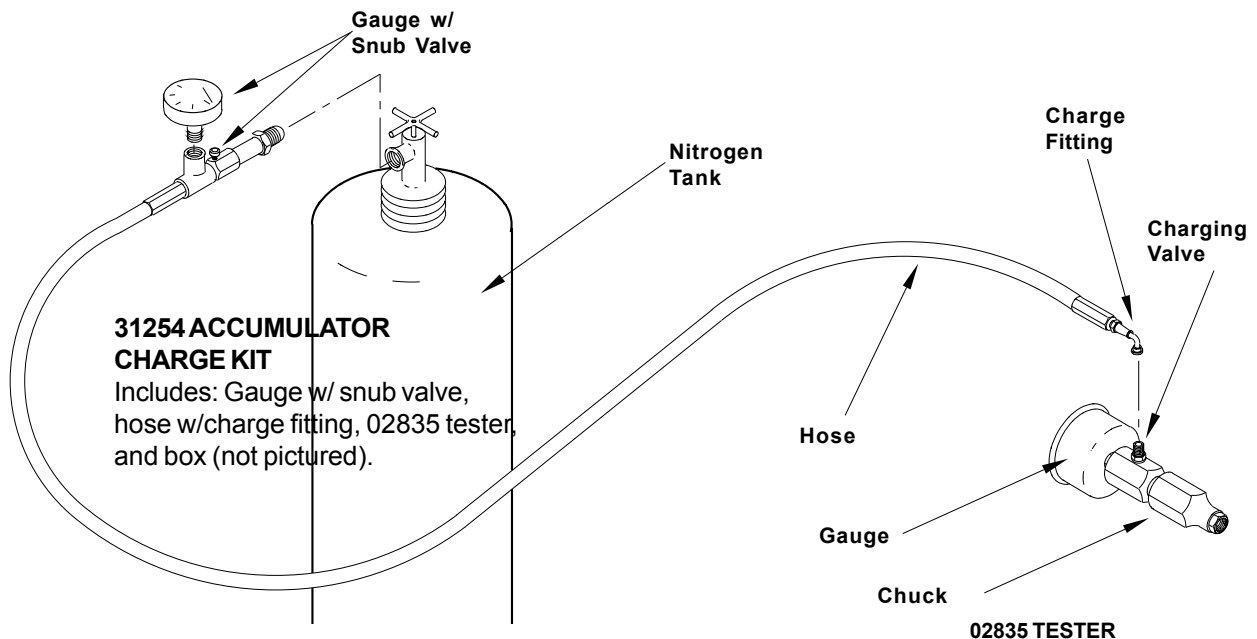
6. With the gauge and snub valve attached to the nitrogen bottle, and with the snub valve **closed**, open the nitrogen bottle valve.

NOTE: It may be necessary to adjust the charge at 650-700 psi/45-48 bar to overcome any pressure drop through the charging system.

7. While watching the pressure gage open the snub valve allowing the gauge to read 600 to 700 psi/42 to 48 bar, close the snub valve on the charging assembly and also on the nitrogen bottle, remove the charging assembly from the accumulator tester.
8. Turn the gauge end of the tester fully counterclockwise to retract the plunger in the chuck. Then remove the tester from the charge valve.
9. On charge valves containing 5/8 inch hex locking nuts, tighten the locking nut.

## TESTING THE ACCUMULATOR PRESSURE

1. Follow instructions 1 through 4 under "CHARGING THE ACCUMULATOR".
2. Read the pressure on the gauge (pressure should be between 500 & 600 psi/35 & 42 bar).
3. If the pressure is low, recharge the tool.



# TROUBLESHOOTING


If symptoms of poor performance develop, the following chart can be used as a guide to correct the problem.

supplying the correct hydraulic flow and pressure to the breaker as listed in the table. Use a flowmeter known to be accurate. Check the flow with the hydraulic oil temperature at least 80°F/27°C.

When diagnosing faults in operation of the tool, always check that the hydraulic power source is

Breaker does not run.	Power unit not functioning.	Check power unit for proper flow and pressure (7-9 gpm / 26-34 lpm, 2000 psi / 140 bar).
	Couplers or hoses blocked.	Remove restriction.
	Pressure and return line hoses reversed at ports.	Be sure hoses are connected to their proper ports.
	Mechanical failure of piston or automatic valve.	Have inspected and repaired by authorized dealer.
Breaker does not hit effectively.	Power unit not functioning.	Check power unit for proper flow and pressure (7-9 gpm / 26-34 lpm, 2000 psi / 140 bar).
	Couplers or hose blocked.	Remove restriction,
	Low accumulator charge (pressure hose will pulse more than normal).	Have recharged by authorized dealer.
	Fluid too hot (above 140° F / 60° C).	Provide cooler to maintain proper fluid temperature.
	Collar support not sliding freely in the foot bore (Easi-Ride™)	Remove, clean and replace as required.
Breaker operates slow.	Low oil flow from power unit.	Check power source for proper flow.
	High backpressure.	Check hydraulic system for excessive backpressure and correct as required.
	Orifice Plug Blocked.	Remove restriction.

# SPECIFICATIONS

Pressure Range .....	1500-2000 psi/104-140 bar
Blows Per Minute .....	1300 to 1800
Maximum Back Pressure .....	250 psi/17 bar
Flow Range .....	(HTMA Type II) 7-9 gpm/26-34 lpm
 EHTMA Category D .....	30 lpm @ 138 bar
Porting .....	-8 SAE O-ring
Couplers .....	HTMA/EHTMA Flush Face Type Male & Female
Connect Size and Type .....	3/8 in. Male Pipe Adapter
Hose Whips .....	Yes
Weight	
Standard Handle Model .....	67 lbs / 30 kg
Anti-Vibration Handle Model .....	75 lbs / 34 kg
Overall Length (Standard Handle) .....	27 in. / 69 cm
(Anti-Vibration Handle).....	29 in. / 73.6 cm
Overall Width - Standard Handle .....	16 in. / 40.6 cm
Overall Width - Anti-Vibration Handle .....	18 in. / 45.75 cm
Maximum Fluid Temperature .....	140° F/60° C
Sound Pressure Level at Operator.....	99 dBA
Guaranteed Sound Power Level .....	112 dBA
Vibration Level (Standard Handle Model) .....	20.0 m/s <sup>2</sup>
(Antivibration Handle Model).....	10.2 m/s <sup>2</sup>

# ACCESSORIES

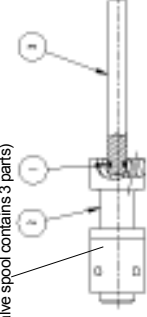
DESCRIPTION	PART NUMBER	
	1-1/8 in. Hex x 6 in. Shank	1-1/4 in. Hex x 6 in. Shank
Clays Spade, 5-1/2 in./13.9 cm Blade	02331	09262
Asphalt Cutter, 5 in./12.7 cm Blade, 11 in./27.9 cm long UC	02332	02335
Moil Point, 14 in./35.6 cm UC	02333	02336
Chisel, 3 in./76 mm, 14 in./35.6 cm long UC	02334	02337
Chisel, 1 in./25 mm, 14 in./35.6 cm long UC	03990	02338
Asphalt Wedge, 14 in./35.6 cm long UC	08106	08119
Ground Rod Driver, 1 inch Rod	04176	04367
Moil Point, Heavy Duty-18 inches long UC	n/a	04404
Clay Spade, 5-1/2 inch Blade	n/a	04405
Detachable Shank	n/a	17782
Brick Wedge	n/a	08118

# SPECIAL TOOLS

DESCRIPTION	PART NUMBER	USAGE
O-ring Tool Kit	04337	General Service of Seals
Spil Ring (Auto Valve Removal)	04908	Auto Valve Removal - Requires 04910
Spacer	04909	Flow Sleeve Installation
Flow Sleeve Removal Tube	04910	Used with 04908 & 05508
Accumulator Disassembly Tool	05508	For Standard Handle Models Only
Accumulator Cylinder Puller	05640	For Standard Handle Models Only
Accumulator Plug Wrench	29135	For Anti-Vibration Models Only
Sleeve	30939	Removal of Auto Valve Body from Handle - Anti-Vibration Models Only
Collet, 7/8 inch	30956	Removal of Spacer from Handle - Anti-Vibration Models Only (Part of 05064 Bearing Puller Kit)
Accumulator Tester	02835	Accumulator Charging
Accumulator Charge Kit	31254	Includes: 02835 Tester, 15304 Accumulator charge assy, and 372047 Box.
Accumulator Charge Assembly	15304	Includes: Liquid Filled Gauge w/Stub Valve, Hose w/Charge Fitting.

# BR67 PARTS LIST

Item No	ANTI-VIB HANDLE		STANDARD HANDLE		Description	Qty
	Without Trigger Lock	Part No	With Trigger Lock	Part No		
1	24067	24067	04055	04055	Retaining Ring	1
2	04055	04055	04056	04056	Washer	1
3	04056	04056	04057	04057	Rod Wiper	1
4	26451	26451	01362	01362	Bushing	1
5	02093	02093	02093	02093	O-ring, 5/16 x 7/16 x 1/16	1
6	02093	02093	04077	04077	O-ring, 1 1/16 x 7/8 x 3/32	1
7	20515	20515	04058	04058	Valve Spool (The valve spool contains 3 parts)	1
8	04058	04058	04058	04058	Spring	1
9	07628	07628	04058	04058	Cap screw	4
10	20511	20511	04058	04058	Lever	1
11	28369	28369	04053	11434	Handle	1
12	24958	24958	04053	11434	Trigger	1
13	29045	29045	04053	11434	Trigger Handle	1
14	28599	28599	04053	11434	Pin	1
15	24964	24964	04070	04070	Spring	1
16	16607	16607	04070	04070	SAE Plug, -10	1
17	24948	24948	04070	04070	Piston	1
18	29308	29308	04070	04070	Trigger Lock	1
19	20510	20510	04051	04051	Pin	1
20	20469	20469	04051	04051	Plug	1
21	21089	21089	09349	09349	Charge Valve	1
22	20500	20500	09349	09349	Valve Cap (Not Pictured)	1
23	20541	20541	09349	09349	Roll Pin	1
24	20498	20498	09349	09349	Spiral Pin	1
25	02494	02494	02494	02494	Spring	2
26	02494	02494	02494	02494	Spring	2
27	11207	11207	01605	01605	Handle Grip	2
28	01605	01605	09546	09546	Circuit Type "D" Sticker	2
29	09546	09546	04350	04350	O-ring	2
30	12832	12832	04350	04350	Hose Assy (Incl Item 28)	2
31	06891	06891	04350	04350	Office Plug	1
32	20510	20510	04350	04350	O-ring, -912, R17	1
33	26452	26452	04350	04350	Plug	1
34	04795	04795	04350	04350	Sintered Filter	1
35	16732	16732	04350	04350	O-ring, 2-218-70D	2
36	26448	26448	04350	04350	O-ring, 2-230-90D	1
37	04062	04062	04062	04062	Spacer	1
38	03973	03973	04062	04062	Back-up Washer	1
39	03972	03972	04062	04062	Male Coupler Body	1
40	04068	04068	04068	04068	Female Coupler Body	1
41	29203	29203	04068	04068	Flow Sleeve Tube	1
42	04064	04064	04068	04068	Name Tag, BR67	1
43	04063	04063	04068	04068	Washer	1
44	04054	04054	04068	04068	Cup Seal	1
45	04069	04069	04068	04068	O-ring, 2-7/8 x 3-1/8 x 1/8	2
46	04071	04071	04069	04069	Flow Sleeve	1
47	04065	04065	04069	04069	Slide Rod	1
48	04571	04571	04065	04065	Automatic Valve	1
49	20508	20508	04571	04571	Push Pin	2
50	26596	26596	04571	04571	Pivot Screw	2
51	26574	26574	04059	04059	Accumulator Valve Block	1
52	26449	26449	04059	04059	Accumulator Diaphragm	1
53	04081	04081	04081	04081	Accumulator Plug	1
54	04597	04597	04081	04081	Hex Bushing, 1-1/8 x 6 in. (for 04598 foot)	1
55	04067	04067	04067	04067	Hex Bushing, 1-1/4 x 6 in. (for 04598 foot)	4
56	07880	07880	07880	07880	Push Pin	1
57	04066	04066	04066	04066	Roll Pin	1
58	01269	01269	04066	04066	Automatic Valve Body	1
59	04985	04985	04066	04066	Rubber Sleeve	2
60	04983	04983	04985	04985	Spring Washer	2
61	04598	04598	07971	11435	Handle	1
			04983	04983	Bolt	1
			04598	04598	Foot (for 04081 or 04597 Hex Bushing) (Incl 63 & 64)	1
			04076	04076	Foot Assy, 1-1/8 x 6 in. Hex (USA & CE except UK models only) (Incl Items 53, 57, 58, 60, 61, 63, 64 & 66-70)	1



Item No	ANTI-VIB HANDLE		STANDARD HANDLE		Description
	Without Trigger Lock	Part No	With Trigger Lock	Part No	
	04599	04599	04599	04599	Foot Assy, 1-1/4 x 6 in. Hex (USA & CE except UK models only) (Incl Items 53, 57, 58, 60, 61, 63, 64 & 66-70)
62	04073	04073	08855	08855	Breaker Foot Assy, 1-1/8 Under/Water (Model-BR67 320 Only)
63	04074	04074	04073	04073	O-ring, 2-5/8 x 2-7/8 x 1/8 90D
64	05464	05464	04074	04074	Rod Wiper
65	04072	04072	05464	05464	Seal Insert
66	04075	04075	04072	04072	Cup Seal
67	01837	01837	04075	04075	Slide Rod Nut
68	04984	04984	01837	01837	Latch
69	04983	04983	04984	04984	Slop Nut
70	08411	08411	04983	04983	Spring
71	28322	28322	08411	08411	Delent
72	28409	28409	28322	28322	CE Sticker (CE models only)
73	58604	58604	28409	28409	Composite Sticker
74	04050	04050	58604	58604	Guaranteed Sound Power Level Sticker 112
75	04052	04052	04050	04050	Valve Cap Assy
76	00844	00844	04052	04052	O-ring, 1.047 x 1.279 x .116 90D
77	22891	22891	00844	00844	Spiral Pin
78	04061	04061	22891	22891	Spring Pin
79	11430	11430	04061	04061	Sticker
80	07517	07517	11430	11430	Accumulator Chamber
81	07518	07518	07517	07517	Spring
82	11230	11230	07518	07518	Hex Bushing, 1-1/8 x 6 in. (for 11614 EZ Foot)
83	07514	07514	11230	11230	Hex Bushing, 1-1/4 x 6 in. (for 11614 EZ Foot)
84	08115	08115	07514	07514	Hex Bushing, 1-1/4 x 6-1/4 in. (for 12294 EZ foot)
85	08116	08116	08115	08115	Spring
86	28380	28380	08116	08116	Collar Support, 1-1/8 in. (for 11614 EZ Foot)
87	07522	07522	28380	28380	Collar Support, 1-1/4 in. (for 11614 EZ Foot)
	12542	12542	07522	07522	Model Sticker (CE models only)
	11614	11614	12542	12542	Retaining Ring
	11614	11614	11614	11614	Name Tag
	12294	12294	11614	11614	Stanley Label
	07525	07525	12294	12294	Foot, EZ (for 07517 or 07518 Bushing) (USA & CE except UK models only) (Incl 64 & 87)
	07524	07524	07525	07525	Foot, EZ (for 11230 Bushing) (UK models only)
	11638	11638	07524	07524	Foot Assy, EZ, 1-1/4 x 6 Hex (USA & CE except UK models only) (Incl Items 57, 58, 60, 61, 63, 64, 66-70, 81-83, 85, 87)
88	01003	01003	11638	11638	Foot Assy, EZ, 1-1/4 x 6 Hex (USA & CE except UK models only) (Incl Items 57, 58, 60, 61, 63, 64, 66-70, 81-83, 85, 87)
89	11435	11435	01003	01003	Foot Assy, EZ, 1-1/4 x 6-1/4 Hex (UK models only) (Incl Items 53, 57, 58, 60, 61, 63, 64 & 66-70, 81-83, 85, 87)
90	11431	11431	11435	11435	Button
91	11432	11432	11431	11431	Handle
92	26450	26450	11432	11432	Lock Pin
93	11208	11208	26450	26450	Key
94	00077	00077	11208	11208	Top Plate
			00077	00077	Hex Shank Sticker (UK models only)
					Retaining Ring

**FOR MORE SPECIFIC DESCRIPTIONS OF THE VARIOUS BREAKER MODELS, SEE "MODEL DESCRIPTIONS" ON PAGE 8.**

**NOTE: Use Part Number and Part Name when ordering.**

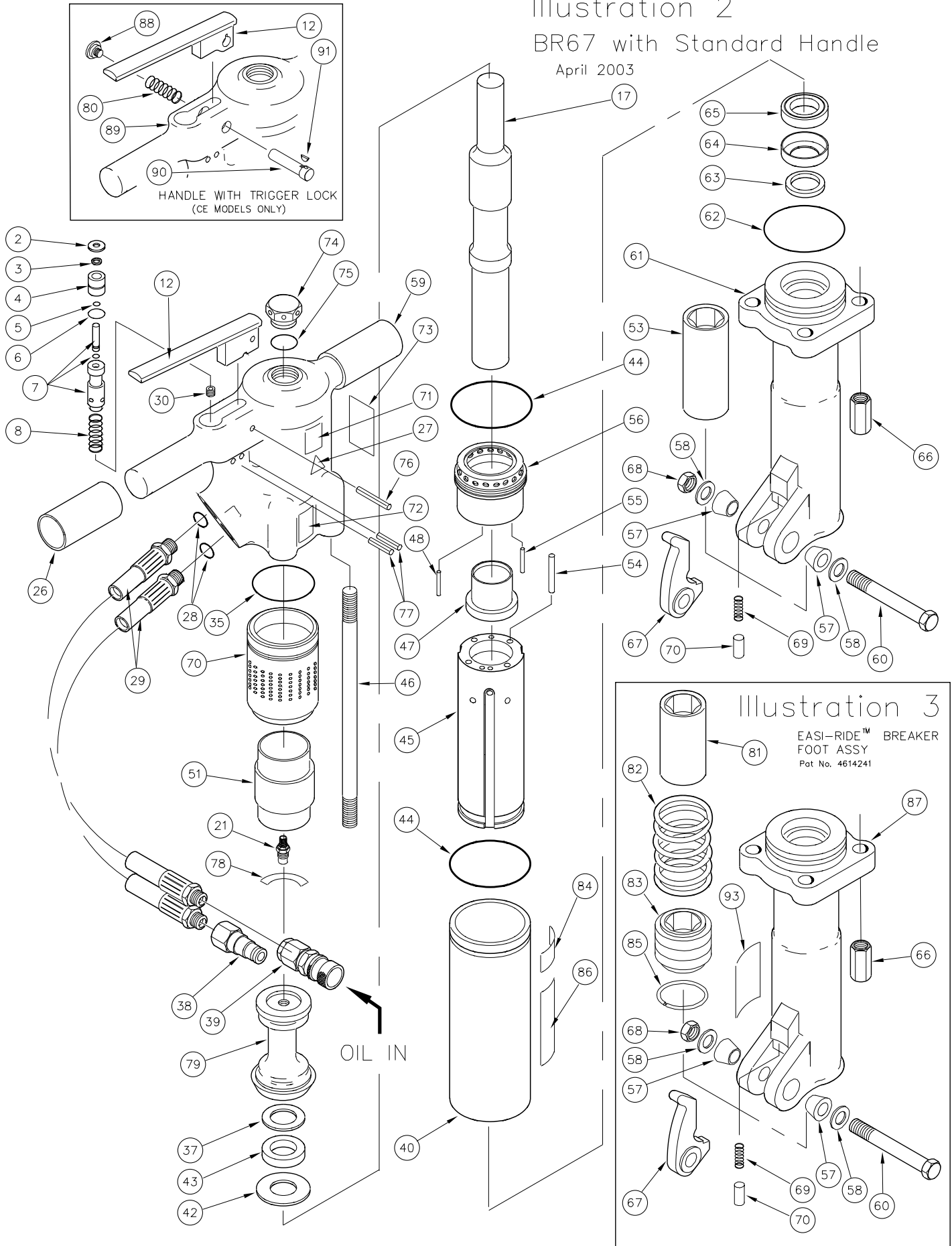
## SEAL KIT 04596

- Denotes part in seal kit

# Illustration 2

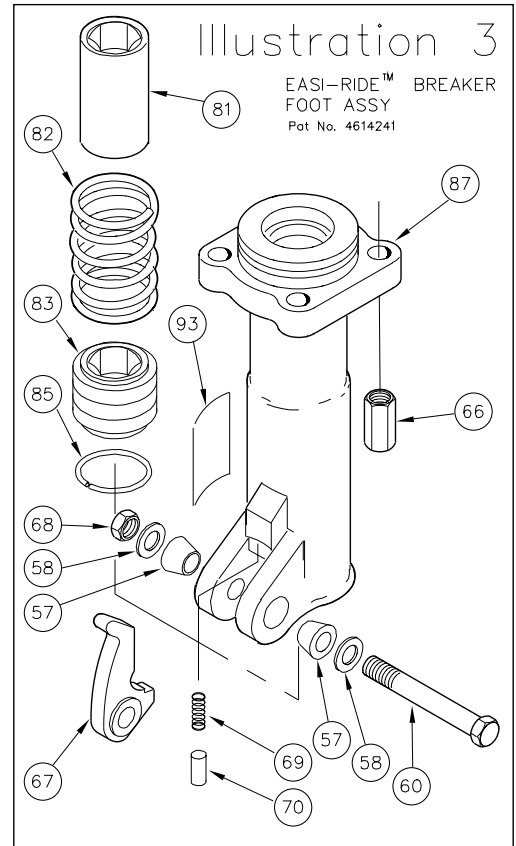
BR67 with Standard Handle

April 2003



# Illustration 3

EASI-RIDE™ BREAKER  
FOOT ASSY  
Pat No. 4614241



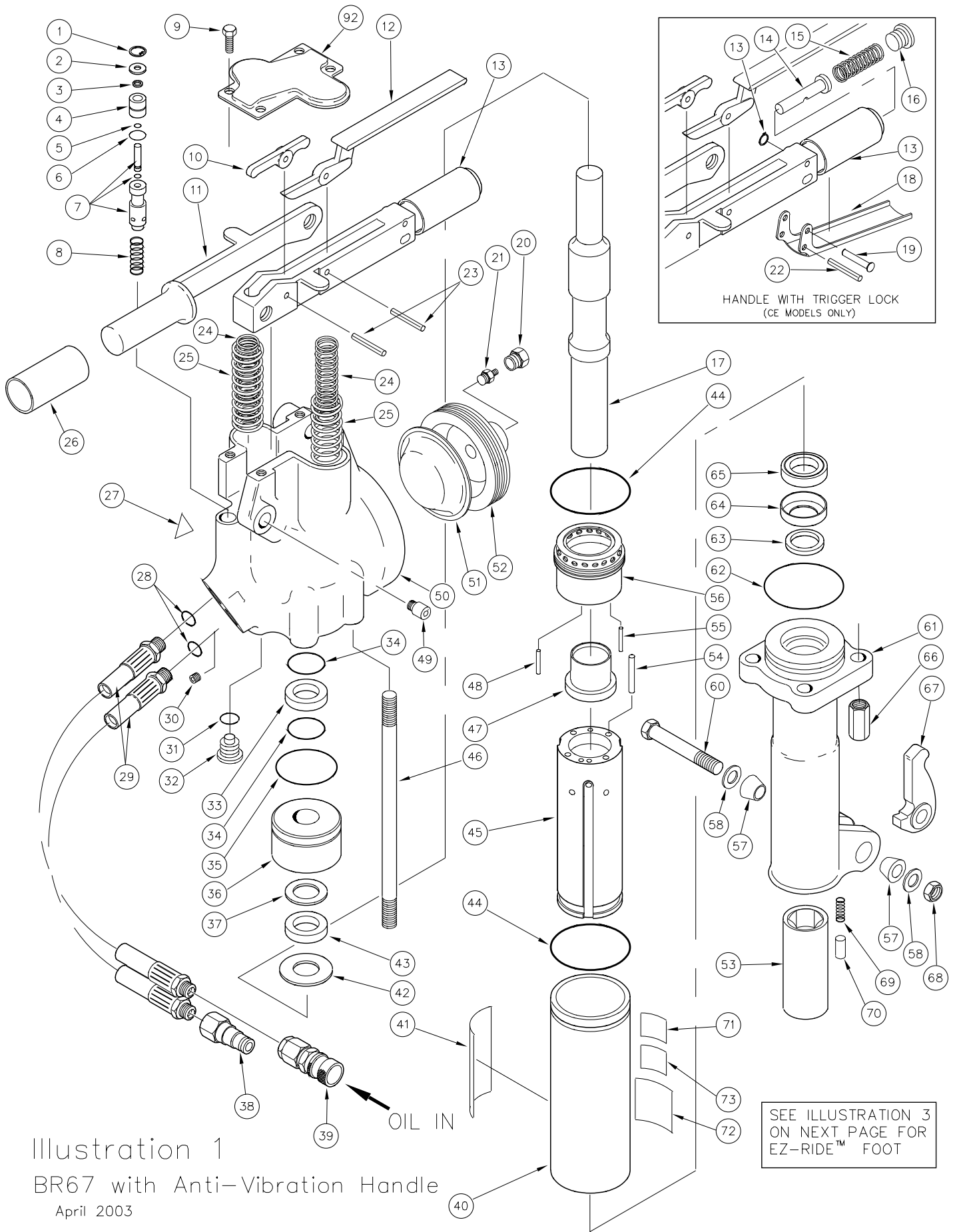


Illustration 1  
BR67 with Anti-Vibration Handle  
April 2003

# WARRANTY

Stanley Hydraulic Tools (hereinafter called "Stanley"), subject to the exceptions contained below, warrants new hydraulic tools for a period of one year from the date of sale to the first retail purchaser, or for a period of 2 years from the shipping date from Stanley, whichever period expires first, to be free of defects in material and/or workmanship at the time of delivery, and will, at its option, repair or replace any tool or part of a tool, or new part, which is found upon examination by a Stanley authorized service outlet or by Stanley's factory in Milwaukie, Oregon to be DEFECTIVE IN MATERIAL AND/OR WORKMANSHIP.

## EXCEPTIONS FROM WARRANTY

**FREIGHT COSTS:** Freight costs to return parts to Stanley, if requested by Stanley for the purpose of evaluating a warranty claim for warranty credit, are covered under this policy if the claimed part or parts are approved for warranty credit. Freight costs for any part or parts which are not approved for warranty credit will be the responsibility of the individual.

**SEALS & DIAPHRAGMS:** Seals and diaphragms installed in new tools are warranted to be free of defects in material and/or workmanship for a period of 6 months after the date of first usage, or for a period of 2 years from the shipping date from Stanley, whichever period expires first.

**CUTTING ACCESSORIES:** Cutting accessories such as breaker tool bits are warranted to be free of defects in material and/or workmanship at the time of delivery only.

**ITEMS PRODUCED BY OTHER MANUFACTURERS:** Components which are not manufactured by Stanley and are warranted by their respective manufacturers.

- a. Costs incurred to remove a Stanley manufactured component in order to service an item manufactured by other manufacturers.

**ALTERATIONS & MODIFICATIONS:** Alterations or modifications to any tool or part. All obligations under this warranty shall be terminated if the new tool or part is altered or modified in any way.

**NORMAL WEAR:** any failure or performance deficiency attributable to normal wear and tear such as tool bushings, retaining pins, wear plates, bumpers, retaining rings and plugs, rubber bushings, recoil springs, etc.

**INCIDENTAL/CONSEQUENTIAL DAMAGES:** To the fullest extent permitted by applicable law, in no event will STANLEY be liable for any incidental, consequential or special damages and/or expenses.

**FREIGHT DAMAGE:** Damage caused by improper storage or freight handling.

**LOSS TIME:** Loss of operating time to the user while the tool(s) is out of service.

**IMPROPER OPERATION:** Any failure or performance deficiency attributable to a failure to follow the guidelines and/or procedures as outlined in the tool's operation and maintenance manual.

**MAINTENANCE:** Any failure or performance deficiency attributable to not maintaining the tool(s) in good operating condition as outlined in the Operation and Maintenance Manual.

**HYDRAULIC PRESSURE & FLOW:** Any failure or performance deficiency attributable to excess hydraulic pressure, excess hydraulic back-pressure, or excess hydraulic flow.

**REPAIRS OR ALTERATIONS:** Any failure or performance deficiency attributable to repairs by anyone which in Stanley's sole judgement caused or contributed to the failure or deficiency.

**MIS-APPLICATION:** Any failure or performance deficiency attributable to mis-application. "Mis-application" is defined as usage of products for which they were not originally intended or usage of products in such a manner which exposes them to abuse or accident, without first obtaining the written consent of Stanley.

**WARRANTY REGISTRATION:** STANLEY ASSUMES NO LIABILITY FOR WARRANTY CLAIMS SUBMITTED FOR WHICH NO TOOL REGISTRATION IS ON RECORD. In the event a warranty claim is submitted and no tool registration is on record, no warranty credit will be issued without first receiving documentation which proves the sale of the tool or the tools' first date of usage. The term "DOCUMENTATION" as used in this paragraph is defined as a bill of sale, or letter of intent from the first retail customer. A WARRANTY REGISTRATION FORM THAT IS NOT ALSO ON RECORD WITH STANLEY WILL NOT BE ACCEPTED AS "DOCUMENTATION".

## NO ADDITIONAL WARRANTIES OR REPRESENTATIONS

This limited warranty and the obligation of Stanley thereunder is in lieu of all other warranties, expressed or implied including merchantability or fitness for a particular purpose except for that provided herein. There is no other warranty. This warranty gives the purchaser specific legal rights and other rights may be available which might vary depending upon applicable law.







**Stanley Hydraulic Tools**

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