

BR50 HYDRAULIC BREAKER





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DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY ÜBEREINSTIMMUNGS-ERKLARUNG DECLARATION DE CONFORMITE CEE DECLARACION DE CONFORMIDAD DICHIARAZIONE DI CONFORMITA

Weisbeck, Andy

Surname and First names/Familiennname und Vornamen/Nom et prénom/Nombre y apellido/Cognome e nome

hereby declare that the equipment specified hereunder: bestätige hiermit, daß erklaren Produkt genannten Werk oder Gerät: déclare que l'équipement visé ci-dessous: Por la presente declaro que el equipo se especifica a continuación: Dichiaro che le apparecchiature specificate di seguito:

1. Category: Kategorie: Catégorie: Categoria: Categoria:

I, the undersigned:

Je soussigné:

El abajo firmante: lo sottoscritto:

Ich, der Unterzeichnende:

- 2. Make/Marke/Marque/Marca/Marca
- 3. Type/Typ/Type/Tipo/Tipo:
- Serial number of equipment: Seriennummer des Geräts: Numéro de série de l'équipement: Numero de serie del equipo: Matricola dell'attrezzatura:

5. Mass/Masse/Masse/Masa/Massa 25 kg

Has been manufactured in conformity with Wurde hergestellt in Übereinstimmung mit Est fabriqué conformément Ha sido fabricado de acuerdo con E' stata costruita in conformitá con

| Directive/Standards | No. | Approved body |
|------------------------|---------------------------------|---|
| Richtlinie/Standards | Nr | Prüfung durch |
| Directives/Normes | Numéro | Organisme agréé |
| Directriz/Los Normas | No | Aprobado |
| Direttiva/Norme | n. | Collaudato |
| ISO Noise Directive | 11148-4:2010 2000/14/EC:2005 | Self AkustikNet (Notified body ID 1585) Bagsvard Hovedgade 141, 2880 Bagsvard, Denmark Certificate #863/2011/003 |
| Machinery Directive | 2006/42/EC:2006 | Self |
| ISO | 28927-10:2011 | Self |

 Special Provisions: None Spezielle Bestimmungen: Dispositions particulières: Provisiones especiales: Disposizioni speciali:

| 7. Measurements: | Measure |
|------------------|-----------|
| Messungen | Guarante |
| Mesures | Measured |
| Mediciones | Annex III |
| Misurazioni | |

ts: Measured Sound Power Level 102 LwA Guaranteed Sound Power Level 104 LwA Measured in accordance to Directive 2000/14/EC, Annex III, Part B, No 10, 15 < m < 30

8. Representative in the Union: Patrick Vervier, Stanley Dubuis 17-19, rue Jules Berthonneau-BP 3406 41034 Blois Cedex, France. Vertreter in der Union/Représentant dans l'union/Representante en la Union/Rappresentante presso l'Unione

Done at/Ort/Fait à/Dado en/Fatto a <u>Stanley Hydraulic Tools, Milwaukie, Oregon USA</u> Date/Datum/le/Fecha/Data 4-30-2012

| Signature/Unterschrift/Signature/Firma/Firma | Andy Wirsh |
|--|---------------------------------|
| Position/Position/Fonction/Cargo/Posizione | Director of Product Development |



Hydraulic Hand Held Concrete Breaker

Stanley

BR5017801, BR5017801AA, BR5057801, BR5057801AA

All

STANLEY. Hydraulic Tools

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IMPORTANT

To fill out a Product Warranty Validation form, and for information on your warranty, visit Stanleyhydraulics.com and select the Company tab, Warranty. (NOTE: The warranty Validation record must be submitted to validate the warranty).

SERVICING: This manual contains safety, operation, 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.

A 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 the number listed on the back of this manual and ask for a Customer Service Representative.



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.

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

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

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

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

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

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

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

LOCAL SAFETY REGULATIONS

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

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 in this manual.

The BR50 Hydraulic Breaker 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 operation.
- Do not operate the tool unless thoroughly trained or under the supervision of an instructor.
- Always wear safety equipment such as goggles, gloves, ear, head, and breathing protection, and safety shoes at all times when operating the tool.
- Do not inspect, carry or clean the tool while the hydraulic power source is connected. Accidental engagement of the tool can cause serious injury.
- Supply hoses must have a minimum working pressure rating of 2500 psi/175 bar.
- Be 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. Use only lint-free cloths. Failure to do so may result in damage to the quick couplers and cause overheating of the hydraulic system.
- Do not operate the tool at oil temperatures above

140 °F/60 °C. Operation at higher oil temperatures can cause operator discomfort and may damage the tool. Never come in contact with the tool bit, the bit can get hot.

- Do not operate a damaged, improperly adjusted, or incompletely assembled tool.
- Do not weld, cut with an acetylene torch, or hardface the tool bit.
- 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.
- Check fastener tightness often and before each use daily.
- Never operate the tool if you cannot be sure that underground utilities are not present.
- Do not wear loose fitting clothing when operating the tool.
- **Warning:** Use of this tool on certain materials during demolition could generate dust potentially containing a variety of hazardous substances such as asbestos, silica or lead. Inhalation of dust containing these or other hazardous substances could result in serious injury, cancer or death. Protect yourself and those around you. Research and understand the materials you are cutting. Follow correct safety procedures and comply with all applicable national, state or provisional health and safety regulations relating to them, including, if appropriate arranging for the safe disposal of the materials by a qualified person.

SAFETY PRECAUTIONS

•

- Warning: Hydraulic fluid under pressure could cause skin injection injury. If you are injured by hydraulic fluid, get medical attention immediately.
- Keep all body parts away from the working tool.
- When handling material or the tool bit, wear your (PPE) Personal Protection Equipment.
- Be observant of the hydraulic hoses lying about the work area, they can be a tripping hazard.
- Always de-energize the hydraulic system when changing a tool bit.
- Take caution when changing a tool bit, tool bits can get very hot.

- Never use the tool in an explosive atmosphere, sparks from the breaking process could ignite explosive gas.
- Use proper lifting techniques when handling the tool, get help from a co-worker and do not over-reach.
- Use proper protection from falling or flying debris, keep bystanders at a safe distance.
- Do not exceed the rated flow and pressure. See Specifications in this manual for correct flow rate and pressure rating. Rapid failure of the internal seals may result.

TOOL STICKERS & TAGS



28409 Composite Sticker All Models



65458 Guaranteed Sound Level Sticker

C F 28322 CE Sticker

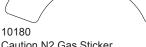


14090 Stanley Logo



11207 Circuit Type D Sticker BR5017801

30Lpm at 138bar BHTMA CATEGOR

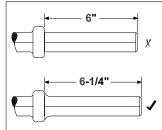


Caution N2 Gas Sticker

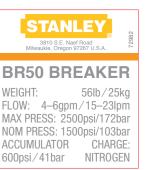
Δ

В.

C.



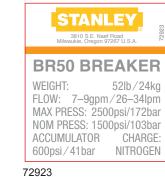
11208 Hex Shank Length Sticker



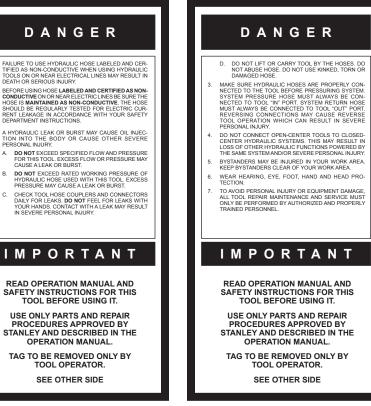
72982

Name Tag (Anti-Vib Handle)





Name Tag (T-Handle)



SAFETY TAG P/N 15875 (Shown smaller then actual size)

NOTE:

THE INFORMATION LISTED ON THE STICKERS SHOWN. MUST BE LEGIBLE AT ALL TIMES.

REPLACE DECALS IF THEY BECOME WORN OR DAMAGED. REPLACEMENTS ARE AVAILABLE FROM YOUR LOCAL STANLEY DISTRIBUTOR.

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.

HOSE TYPES

The rated working pressure of the hydraulic hose must be equal to or higher than the relief valve setting on the hydraulic system. There are three types of hydraulic hose that meet this requirement and are authorized for use with Stanley Hydraulic Tools. They are:

Certified non-conductive — constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. *Hose labeled certified non-conductive is the only hose authorized for use near electrical conductors.*

Wire-braided (conductive) — constructed of synthetic rubber inner tube, single or double wire braid reinforcement, and weather resistant synthetic rubber cover. *This hose is conductive and must never be used near electrical conductors.*

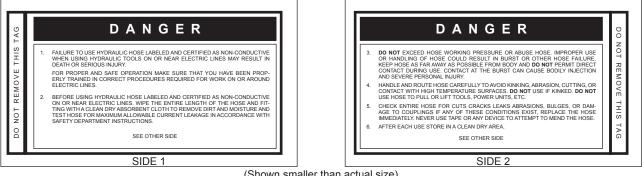
Fabric-braided (not certified or labeled non-conductive) — constructed of thermoplastic or synthetic rubber inner tube, synthetic fiber braid reinforcement, and weather resistant thermoplastic or synthetic rubber cover. *This hose is* **not** certified **non-conductive** and must never be used near electrical conductors.

HOSE SAFETY TAGS

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 from your Stanley Distributor.

THE TAG SHOWN BELOW IS ATTACHED TO "CERTIFIED NON-CONDUCTIVE" HOSE



(Shown smaller than actual size)

THE TAG SHOWN BELOW IS ATTACHED TO "CONDUCTIVE" HOSE.





(Shown smaller than actual size)

| Oil F | Oil Flow | Hose L | Hose Lengths | Inside Diameter | iameter | USE | Min. Workin | Min. Working Pressure |
|---------------|------------|----------------|--|-----------------|---------------|----------------|-------------|-----------------------|
| GPM | LPM | FEET | METERS | INCH | MM | (Press/Return) | PSI | BAR |
| | | Certified No | Certified Non-Conductive Hose - Fiber Braid - for Utility Bucket Trucks | Hose - Fiber | r Braid - for | Utility Bucket | Irucks | |
| 4-9 | 15-34 | up to 10 | up to 3 | 3/8 | 10 | Both | 2250 | 155 |
| | Conductiv | ve Hose - Wire | Conductive Hose - Wire Braid or Fiber Braid -DO NOT USE NEAR ELECTRICAL CONDUCTORS | Braid -DO N | NOT USE NE | EAR ELECTRIC | AL CONDUCT | ORS |
| 4-6 | 15-23 | up to 25 | up to 7.5 | 3/8 | 10 | Both | 2500 | 175 |
| 4-6 | 15-23 | 26-100 | 7.5-30 | 1/2 | 13 | Both | 2500 | 175 |
| 5-10.5 | 19-40 | up to 50 | up to 15 | 1/2 | 13 | Both | 2500 | 175 |
| 5-10.5 | 19-40 | 51-100 | 15-30 | 5/8 | 16 | Both | 2500 | 175 |
| ц С Т Ц | 07 07 | | 00 00 | 5/8 | 16 | Pressure | 2500 | 175 |
| c.01-c | 18-40 | 000-001 | 08-00 | 3/4 | 19 | Return | 2500 | 175 |
| 10-13 | 38-49 | up to 50 | up to 15 | 5/8 | 16 | Both | 2500 | 175 |
| 7 7 7 | 07.00 | 100 | ос п 1 | 5/8 | 16 | Pressure | 2500 | 175 |
| <u> </u> | 00-4-00 | 001-10 | 00-01 | 3/4 | 19 | Return | 2500 | 175 |
| 7 | 07.00 | | 20 60 | 3/4 | 19 | Pressure | 2500 | 175 |
| | 00-40 9 | 002-001 | 00-00 | - | 25.4 | Return | 2500 | 175 |
| 9 T C T | 00.01 | 10.10 | 0 0 0 | 5/8 | 16 | Pressure | 2500 | 175 |
| 0 -2 | 4%-00 | cz oj dn | o oi dh | 3/4 | 19 | Return | 2500 | 175 |
| 0 7 7 | 00 07 | 100 | 000 | 3/4 | 19 | Pressure | 2500 | 175 |
| 0 -2 | 4%-00 | 001-07 | 00-0 | ~ | 25.4 | Return | 2500 | 175 |

Tool to Hydraulic Circuit Hose Recommendations

STANLEY

The chart to the right shows recommended minimum hose diameters for various hose lengths based on gallons per minute (gpm)/ liters per minute (lpm). These recommendations are intended to keep return line pressure (back pressure) to a minimum acceptable level to ensure maximum tool performance.

This chart is intended to be used for hydraulic tool applications only based on Stanley Hydraulic Tools tool operating requirements and should not be used for any other applications.

All hydraulic hose must have at least a rated minimum working pressure equal to the maximum hydraulic system relief valve setting.

All hydraulic hose must meet or exceed specifications as set forth by SAE J517.

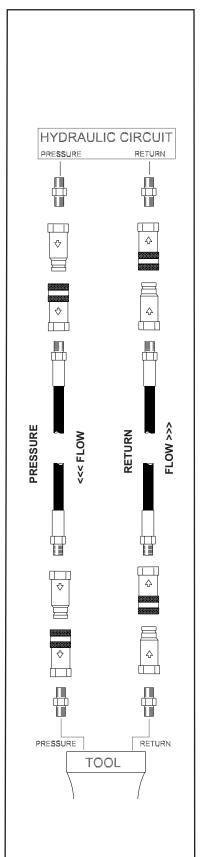


Figure 1. Typical Hose Connections

HOSE RECOMMENDATIONS

HTMA / EHTMA REQUIREMENTS

| НТМА | | TOOL TY | /PE | |
|--|---|---|--|---|
| HYDRAULIC SYSTEM REQUIREMENTS | ΤΥΡΕ Ι | TYPE II | TYPE RR | TYPE III |
| Flow Range Nominal Operating Pressure (at the power supply outlet) | 4-6 gpm (15-23 lpm) 1500 psi (103 bar) | 7-9 gpm (26-34 lpm) 1500 psi (103 bar) | 9-10.5 gpm (34-40 lpm) 1500 psi (103 bar) | 11-13 gpm (42-49 lpm) 1500 psi (103 bar) |
| System relief valve setting (at the power supply outlet) | 2100-2250 psi (145-155 bar) | 2100-2250 psi (145-155 bar) | 2200-2300 psi (152-159 bar) | 2100-2250 psi (145-155 bar) |
| Maximum back pressure (at tool end of the return hose) | 250 psi (17 bar) | 250 psi (17 bar) | 250 psi (17 bar) | 250 psi (17 bar) |
| Measured at a max. fluid viscosity of: (at min. operating temperature) | 400 ssu* (82 centistokes) | 400 ssu* (82 centistokes) | 400 ssu* (82 centistokes) | 400 ssu* (82 centistokes) |
| Temperature: Sufficient heat rejection capacity to limit max. fluid temperature to: (at max. expected ambient temperature) | 140° F (60° C) | 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 NOTE: Do not operate the tool at oil temperatures above 140° F (6 discomfort at the tool. | 3 hp (2.24 kW) 40° F (22° C) 50° C). Operation at | 5 hp (3.73 kW) 40° F (22° C) thigher temperatur | 6 hp (5.22 kW) 40° F (22° C) res can cause ope | 7 hp (4.47 kW) 40° F (22° C) rator |
| Filter Min. full-flow filtration Sized for flow of at least: (For cold temp. startup and max. dirt-holding capacity) | 25 microns 30 gpm (114 lpm) | 25 microns 30 gpm (114 lpm) | 25 microns 30 gpm (114 lpm) | 25 microns 30 gpm (114 lpm) |
| Hydraulic fluid Petroleum based (premium grade, anti-wear, non-conductive) Viscosity (at min. and max. operating temps) | 100-400 ssu* (2 | 100-400 ssu* 0-82 centistokes) | 100-400 ssu* | 100-400 ssu* |
| NOTE: When choosing hydraulic fluid, the expected oil temperatur most suitable temperature viscosity characteristics. Hydrau over a wide range of operating temperatures. | | | | |

*SSU = Saybolt Seconds Universal

| EHTMA | | CLA | SSIFICATION | N | 0 |
|----------------------------------|--|-----------------------------------|-----------------------------------|---|--|
| HYDRAULIC SYSTEM REQUIREMENTS | B ISLEM of 138-br EHTMA CATEGORY | 20Lpm at 138bar EHTMA CATEGORY | Jolpm at 138bar EHTMA CATEGORY | E 40Lpm at 138bar EHTMA CATEGOORY | F Solpm at 138bar EHTMA CATEGORY |
| Flow Range | 3.5-4.3 gpm | 4.7-5.8 gpm | 7.1-8.7 gpm | 9.5-11.6 gpm | 11.8-14.5 gpm |
| | (13.5-16.5 lpm) | (18-22 lpm) | (27-33 lpm) | (36-44 lpm) | (45-55 lpm) |
| Nominal Operating Pressure | 1870 psi | 1500 psi | 1500 psi | 1500 psi | 1500 psi |
| (at the power supply outlet) | (129 bar) | (103 bar) | (103 bar) | (103 bar) | (103 bar) |
| System relief valve setting | 2495 psi | 2000 psi | 2000 psi | 2000 psi | 2000 psi |
| (at the power supply outlet) | (172 bar) | (138 bar) | (138 bar) | (138 bar) | (138 bar) |

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



OPERATION

The recommended hose size is .500 inch/12 mm ID up to 50 ft/15 m long and .625 inch/16 mm ID minimum up to 100 ft/30 m.

PRE-OPERATION PROCEDURES

CHECK POWER SOURCE

- Using a calibrated flowmeter and pressure gauge, check that the hydraulic power source develops a flow of 7–9 gpm/26–34 lpm at 2000 psi/140 bar or 5–6 gpm /18–22 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 2250 psi/155 bar maximum.

INSTALL TOOL BIT

- 1. Rotate the latch on the breaker foot downward (pointing away from the tool).
- 2. Insert the tool bit into the foot and pull the latch up to lock the tool bit in place.

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 tool fittings or quick disconnects. It is a good practice to connect return hoses first and disconnect them last to minimize or avoid trapped pressure within the tool.
- 3. Observe flow indicators stamped on hose couplers to ensure that fluid flow is in the proper direction. The female coupler on the tool hose is the inlet coupler.
- 4. Move the hydraulic circuit control valve to the ON position to operate the tool.

NOTE:

If uncoupled hoses are left in the sun, pressure increase within the hoses may make them difficult to connect. When possible, connect the free ends of the hoses together.

OPERATION PROCEDURES

- 1. Observe all safety precautions.
- 2. Install the appropriate tool bit for the job.
- 3. Place the bit firmly on the surface to be broken.
- 4. Squeeze the trigger to start the breaker. Adequate down pressure is very important. When the tool bit breaks through the obstruction or becomes bound, release the trigger and reposition the tool bit.

NOTE:

Partially depressing the trigger allows the tool to run at slow speed. Slow-speed operation permits easier starting of the tool bit into the work surface.

 To start, break an opening (hole) in the center of the surface. After making a hole, break portions of the material into the original opening. For best productivity, the breaking should be done around the original hole.

The size of the broken material will vary with the strength and thickness of the base material and the amount of any reinforcement wire or rebar.

Harder material or more reinforcing wire or rebar will require taking smaller bites. To determine the most effective bite, start with 2 in./50 mm or smaller bites.

Bites can then be gradually increased until the broken piece becomes too large, requiring increased time to break off the piece.

Sticking of the tool bit occurs when too large a bite is being taken and the tool bit hammers into the material without the material fracturing. This causes the tool bit to become trapped in the surrounding material.

COLD WEATHER OPERATION

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

Damage to the hydraulic system or breaker can result from use with fluid that is too viscous or thick.

TOOL PROTECTION & CARE

NOTICE

In addition to the Safety Precautions found in 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 couplers 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 and pressure. See Specifications in this manual for correct flow rate and pressure rating. 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.

TROUBLESHOOTING

| PROBLEM | CAUSE | REMEDY |
|--------------------------------|--|---|
| Tool does not run. | Power unit not functioning. | Check power source for proper flow and pressure (7–9 gpm/ 26–34 lpm, 2000 psi/ 140 bar) or 5–6 gpm /18–22 lpm at 1500–2000 psi /105–140 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. | Disassemble breaker and inspect for damaged parts. |
| Tool does not hit effectively. | Power unit not functioning. | Check power source for proper flow and pressure (7–9 gpm/ 26–34 lpm, 2000 psi/ 140 bar) or 5–6 gpm /18–22 lpm at 1500–2000 psi /105–140 bar. |
| | Couplers or hoses blocked. | Remove restriction. |
| | Low accumulator charge (pressure hose will pulse more than normal). | Recharge accumulator. Replace diaphragm if charge loss continues. |
| | Fluid too hot (above 140 °F/60 °C). | Provide cooler to maintain proper fluid temperature (130 °F/55 °C). |
| Tool operates slow. | Low gpm supply from power unit. | Check power source for proper flow and pressure (7–9 gpm/ 26–34 lpm, 2000 psi/ 140 bar) or 5–6 gpm /18–22 lpm at 1500–2000 psi /105–140 bar. |
| | High back-pressure. | Check hydraulic system for excessive back-pressure (over 200 psi/14 bar). |
| | Couplers or hoses blocked. | Remove restriction. |
| | Orifice plug blocked. | Remove restriction. |
| | Fluid too hot (above 140 °F/60 °C) or too cold (below 60 °F/16 °C). | Check power unit for proper fluid temperature. Bypass cooler to warm the fluid or provide cooler to maintain proper temperature. |
| | Relief valve set too low. | Adjust relief valve to 2100–2250 psi/145–155 bar. |
| | Collar support not sliding freely in the foot bore (Easi-Ride™). | Remove, clean and replace as required. |
| Tool gets hot. | Hot fluid going through tool. | Check power unit. Be sure flow rate is not too high causing part of the fluid to go through the relief valve. Provide cooler to maintain proper fluid temperature (140 °F/60 °C max). Check the relief valve setting. Eliminate flow control devices. |
| Fluid leakage on tool bit. | Lower piston seal failure. | Replace seal. |
| Fluid leakage around trigger. | Valve spool seal failure. | Replace seals. |



ACCUMULATOR TESTING PROCEDURE

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

- 31254 Charge Kit: which includes the following.
 - Accumulator Tester (Part Number 02835).
 - Charging Assembly (P/N 15304: includes a liquid filled gauge with snub valve, hose and fittings).
- NITROGEN bottle with an 800 psi/55 bar minimum charge. (Not included in 31254 kit)



The breaker contains nitrogen under pressure.

- 1. Remove the plug from the handle or handle pivot.
- 2. Holding the chuck end of Accumulator Tester (P/N 02835) turn the gauge fully counterclockwise to ensure that the stem inside the chuck is completely retracted.
- Thread the tester onto the accumulator charging valve. 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 of the tester by turning the gauge-end clockwise until a pressure is read on the gauge (charge pressure should be 500–700 psi/34–48 bar).

- 5. If pressure is OK unscrew the gauge-end from the chuck to retract the stem, then unscrew the entire tester assembly from the accumulator charging valve. If pressure is low, charge the accumulator as described in the following section.
- 6. Install the plug.

ACCUMULATOR CHARGING

- 1. Perform Steps 1 through 4 of the Accumulator Testing procedure.
- Connect the chuck of the charging assembly to the charging valve on the accumulator tester or, if preferred, remove the tester from the charging valve and connect the charging assembly chuck directly to the charging valve.
- 3. Adjust the snub valve to a charging pressure of 600 psi/42 bar. Note: While watching the pressure gauge, open snub valve slowly until it reaches the proper charge pressure (600–700 psi).

NOTE:

It may be necessary to set the gauge at 650–700 psi/45–48 bar to overcome any pressure drop through the charging system.

- 4. When the accumulator is fully charged close the snub valve on the charging assembly hose and remove the charging assembly chuck from the accumulator tester or tool charging valve.
- 5. If the accumulator tester has been used, be sure to turn the gauge-end fully counterclockwise before removing the tester from the charging valve of the tool. Install the valve cap.

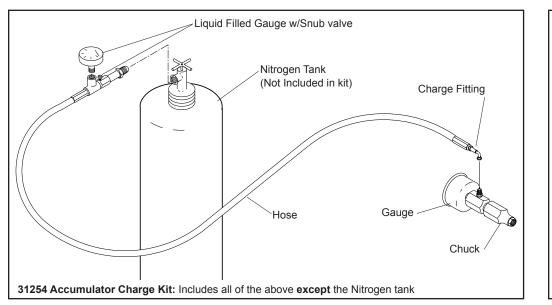


Figure 2. Charging the Accumulator

STANLEY.

Location of charge valve on Anti-Vib Models. On T-Handle models charge

valve is located on the top of breaker.

SPECIFICATIONS

| Pressure Range Maximum Back Pressure Flow Range (EHTMA D/HTMA Class II) Nominal Flow | 250 Psi/17 bar |
|--|--------------------------------|
| Flow Range (EHTMA D/HTMA Class I) Nominal Flow | |
| Hose Whips Connect Size & Type Weight (T-Handle Models) (Anti Vib Models) | 3/8 in Male Pipe Hose Ends |
| Overall Length Overall Width at Handles Max. Fluid Temperature System Type Port Size | |
| HTMA/EHTMA Category Nominal Pressure Max Pressure Max Relief Pressure | |

NOTE:

Weights, dimensions and operating specifications listed herein are subject to change without notice. Where specifications are critical to your applications, please consult Stanley Hydraulic Tools.

BR50 SOUND AND VIBRATION DECLARATION

| Test conducted on BR5017801,operated at standard 8 gpm input | |
|---|------------------------|
| Measured A-weighted sound power level, Lwa (ref. 1pW) in decibels | 102 dBA |
| Uncertainty, Kwa, in decibels | 1.6 dBA |
| Guaranteed sound power level | 104 dBA |
| Measured A-weighted sound pressure level, Lpa (ref. 20 µPa) at operator's position, in decibels | 98 dBA |
| Uncertainty, Kpa, in decibels | 3 dBA |
| Values determined according to noise test code given in ISO 15744, using the basic standard | |
| ISO3744 Test conducted by independent notified body to comply with 2000/14/EC:2005 requirem | nents. |
| NOTE- The sum of a measured noise emission value and its associated uncertainty represents a | in upper bound- |
| ary of the range of values which is likely to occur in measurements. | |
| Declared vibration emission value in accordance with EN 12096 | |
| Measured vibration emission value: 3-Axis | 5.9 m/sec ² |
| Uncertainty: K | 0.5 m/sec ² |
| Measurred Vibration emission value with uncertainty (3 Axis) | 6.4 m/sec ² |
| Measured vibration emission value: Z-Axis | 2.4 m/sec ² |
| Uncertainty: K | 0.5 m/sec ² |
| Measurred Vibration emission value with uncertainty (Z Axis) | 4 m/sec ² |
| | |

Values determined according to ISO 8662-5, ISO 5349-1,2



TEST EQUIPMENT / ACCESSORIES

TEST EQUIPMENT

| Accumulator Tester | 02835 |
|---|-------|
| Flow and Pressure Tester | 04182 |
| Accumulator Charge Assembly (Includes Liquid Filled Gauge w/ Valve, Hose, & Charge Fitting) | |
| Accumulator Charge Kit (Includes 02835 Tester, 15304 Charge Assy and 372047 Charge Kit Box) | |

SERVICE TOOLS

| Flow Sleeve Removal Tube | 04910 |
|-----------------------------|-------|
| Flow Sleeve Removal Tool | 04919 |
| Accumulator Cylinder Puller | 05640 |
| Tamper Sleeve Tool | |
| O-ring Tool Kit | |

ACCESSORIES

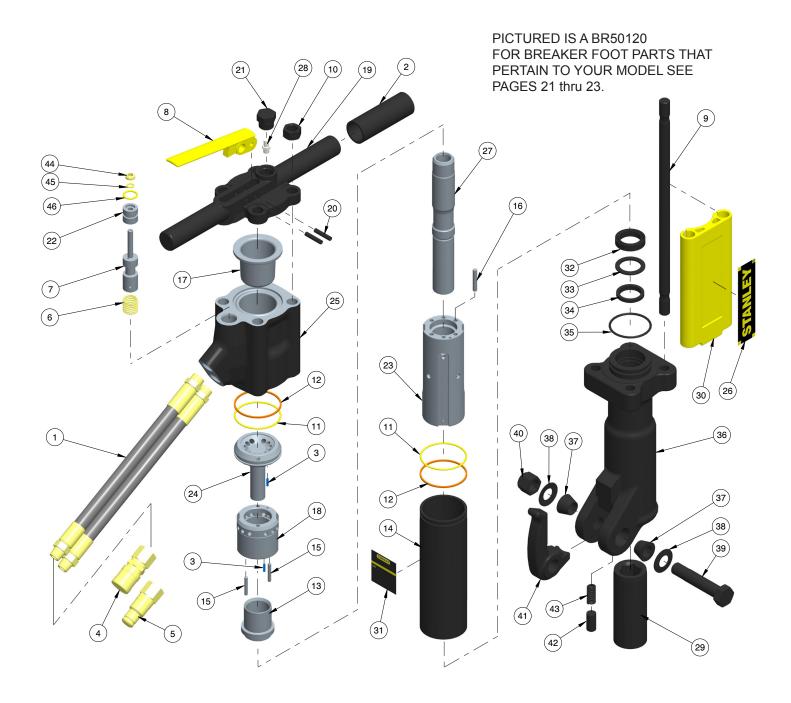
1-1/8 IN. HEX \times 6 IN. SHANK

| Moil Point – 14 in. Long UC | 02333 |
|--------------------------------|-------|
| Chisel Point – 14 in. Long UC | 03990 |
| 3-inch Chisel – 14 in. Long UC | 02334 |
| Clay Spade – 5-1/2 in. Blade | |
| Asphalt Wedge – 12 in. | |
| Asphalt Cutter – 5 in. Wide | |
| Ground Rod Driver – 1 in. Rod | 04176 |

1-1/4 IN. HEX \times 6 IN. SHANK

| loil Point – 14 in. Long UC023 | 336 |
|-------------------------------------|-----|
| inch Chisel – 14 in. Long UC023 | |
| lay Spade – 5-1/2 in. Blade | 262 |
| sphalt Cutter – 5 in. Wide023 | 335 |
| round Rod Driver – 1 in. Rod043 | 367 |
| eavy Duty Chisel – 1 in | 338 |
| eavy Duty Moil Point – 18 in044 | 404 |
| lay Spade – 8 in | 405 |
| etachable Shank (Requires 17783) | 782 |
| amping Pad – 6 in. (Requires 17782) | |

BR50 T-HANDLE ILLUSTRATION



BR50 T-HANDLE PARTS LIST

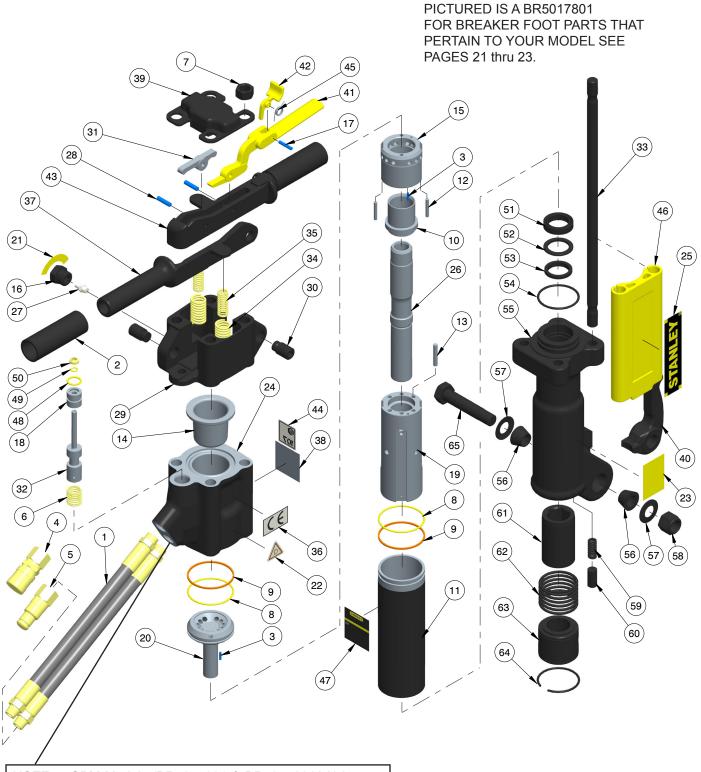
| ITEM | P/N | QTY | DESCRIPTION |
|------|-------|-----|--|
| 1 | 01652 | 2 | HOSE WHIP 12" |
| 2 | 02494 | 2 | HANDLE GRIP |
| 3 | 02900 | 2 | ROLL PIN |
| 4 | 03972 | 1 | COUPLER,3/8FEM. 3/8NPT |
| 5 | 03973 | 1 | COUPLER,3/8MALE 3/8NPT |
| 6 | 04058 | 1 | SPRING |
| 7 | 04077 | 1 | VALVE SPOOL |
| 8 | 04371 | 1 | TRIGGER |
| 9 | 04373 | 4 | SIDE ROD |
| 10 | 04374 | 4 | HEX NUT |
| 11 | 04379 | 2 | O-RING* |
| 12 | 04381 | 2 | BACK-UP RING* |
| 13 | 04382 | 1 | AUTOMATIC VALVE |
| 14 | 04383 | 1 | FLOW SLEEVE TUBE |
| 15 | 04571 | 2 | PUSH PIN |
| 16 | 04605 | 4 | PUSH PIN |
| 17 | 07479 | 1 | ACCUMULATOR DIAPHRAGM |
| 18 | 07480 | 1 | AUTOMATIC VALVE BODY |
| 19 | 07483 | 1 | HANDLE |
| 20 | 07492 | 2 | ROLL PIN |
| 21 | 07493 | 1 | O-RING PLUG MALE |
| 22 | 04057 | 1 | BUSHING (BUSHING ASSY 07699 INCLUDES ITEMS 44-46) |
| 23 | 09611 | 1 | FLOW SLEEVE |
| 24 | 09640 | 1 | PORTING BLOCK |
| 25 | 11588 | 1 | ACCUMULATOR ON-OFF |
| 26 | 14090 | 2 | STANLEY LOGO |
| 27 | 19443 | 1 | PISTON |
| 28 | 20499 | 1 | CHARGE VALVE |
| 29 | 04081 | 1 | HEX BUSHING 1-1/8" |
| 30 | 72919 | 2 | FILLER SNAP-ON SMALL |

| ITEM | P/N | QTY | DESCRIPTION |
|------|-------|-----|---|
| 31 | 72923 | 1 | NAME TAG-BR50 T-HANDLE |
| 32 | 34092 | 1 | CUP SEAL* |
| 33 | 09642 | 1 | BACK UP WASHER |
| 34 | 03127 | 1 | ROD WIPER* |
| 35 | 02022 | 1 | O-RING* |
| 36 | | | SEE BREAKER FOOT ASSY"S (PAGES 21 THRU 23) |
| 37 | 01269 | 2 | TAPER SLEEVE |
| 38 | 04985 | 2 | SPRING WASHER |
| 39 | 04983 | 1 | FOOT LATCH BOLT |
| 40 | 04984 | 1 | NYLOCK NUT |
| 41 | 01837 | 1 | LATCH |
| 42 | 08411 | 1 | DETENT |
| 43 | 01744 | 1 | SPRING |
| 44 | 04056 | 1 | ROD WIPER* |
| 45 | 01362 | 1 | O-RING* |
| 46 | 00293 | 1 | O-RING* |

SEAL KIT P/N-13552

* DENOTES PART IN SEAL KIT

BR50 ANTI-VIB ILLUSTRATION



NOTE: 5-GPM Models (BR5057801 & BR5057801AA) have a Orifice Plug P/N-12832 Installed in the lower return port of item 24 Accumulator On-Off Valve Block (Orifice Plug not pictured).

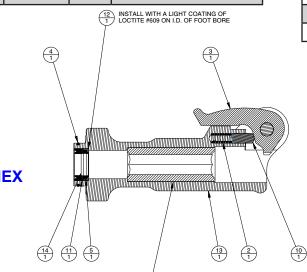
BR50 ANTI-VIB PARTS LIST

| ITEM | P/N | QTY | DESCRIPTION | 33 | 20517 | 4 | SIDE ROD |
|--------|-------|-----|---|----------------------------|----------------|-----|---------------------------|
| 1 | 01652 | 2 | HOSE WHIP 12" | ITEM | P/N | QTY | DESCRIPTION |
| 2 | 02494 | 2 | HANDLE GRIP | 34 | 20540 | 2 | COMPRESSION COIL SPRING |
| 3 | 02900 | 2 | ROLL PIN | 35 | 20541 | 2 | COMPRESSION COIL SPRING |
| 4 | 03972 | 1 | COUPLER,3/8FEM. 3/8NPT | 36 | 28322 | 1 | STICKER "CE" |
| | | | FL.FACE SET 03971 | 37 | 28369 | 1 | HANDLE (GUARDED) |
| 5 | 03973 | 1 | COUPLER,3/8MALE 3/8NPT | 38 | 28409 | 1 | COMPOSITE STICKER |
| 6 | 04058 | 1 | FL.FACE SET 03971 SPRING | 39 | 28494 | 1 | TOP PLATE |
| 6 7 | 04058 | 4 | HEX NUT | 40 | 01837 | 1 | LATCH |
| 8 | 04374 | 4 | O-RING* | 41 | 58526 | 1 | CAST TRIGGER |
| 9 | 04379 | 2 | BACK-UP RING* | 42 | 58527 | 1 | TRIGGER LOCK |
| 10 | 04381 | 1 | AUTOMATIC VALVE | 43 | 58529 | 1 | TRIGGER HANDLE |
| 10 | 04382 | 1 | FLOW SLEEVE TUBE | 44 | 65458 | 1 | GUARANTEED SOUND POWER |
| 12 | 04571 | 2 | PUSH PIN | | | | LEVEL - 104dB (BR5057801) |
| 12 | 04605 | 4 | PUSH PIN | 45 | 66828 | 1 | TORSION SPRING |
| 14 | 07479 | 1 | ACCUMULATOR DIAPHRAGM | 46 | 72919 | 2 | FILLER SNAP-ON SMALL |
| 15 | 07480 | 1 | AUTOMATIC VALVE BODY | 47 | 72927 | 1 | NAME TAG-BR50 8-GPM |
| 16 | 07400 | 1 | O-RING PLUG MALE | 40 | 72982 | 1 | NAME TAG-BR50 5-GPM |
| 17 | 07624 | 1 | ROLL PIN | 48 | 00293 | 1 | O-RING* |
| 18 | 04057 | 1 | BUSHING (BUSHING ASSY | 49 | 01362 | 1 | O-RING* |
| 10 | 01007 | | 07699 INCLUDES ITEMS 48-50) | 50 | 04056 34092 | 1 | ROD WIPER* CUP SEAL* |
| 19 | 09611 | 1 | FLOW SLEEVE | 51 52 | 09642 | 1 | BACK UP WASHER |
| 20 | 09640 | 1 | PORTING BLOCK | 52 | 09642 | 1 | ROD WIPER* |
| 21 | 10180 | 1 | CAUTION N2 GAS STICKER | 53 | 02022 | 1 | O-RING* |
| 22 | 11207 | 1 | CIRCUIT TYPE "D" STICKER | 55 | 02022 | | SEE BREAKER FOOT ASSY's |
| | 11206 | 1 | CIRCUIT TYPE "C" STICKER (5-GPM MODELS ONLY) | 55 | | | (PAGES 21 THRU 23) |
| 23 | 11208 | 1 | HEX SHANK STICKER | 56 | 01269 | 2 | TAPER SLEEVE |
| 24 | 11588 | 1 | ACCUMULATOR ON-OFF | 57 | 04985 | 2 | SPRING WASHER |
| 27 | 11000 | ' | VALVE BLOCK | 58 | 04984 | 1 | NYLOCK NUT |
| 25 | 14090 | 2 | STANLEY LOGO | 59 | 01744 | 1 | SPRING |
| 26 | 19443 | 1 | PISTON | 60 | 08411 | 1 | DETENT |
| | 58597 | 1 | PISTON (5-GPM MODELS ONLY | 61 | 11230 | 1 | HEX BUSHING 1-1/4" |
| | | | BR5057801 & BR5057801AA) | 62 | 08158 | 1 | COMPRESSION SPRING |
| 27 | 20499 | 1 | CHARGE VALVE | 63 | 11234 | 1 | COLLAR SUPPORT ASSY |
| 28 | 20500 | 2 | ROLL PIN | 64 | 07522 | 1 | RETAINING RING |
| 29 | 20505 | 1 | HANDLE PIVOT BLOCK | 65 | 04983 | 1 | FOOT LATCH BOLT |
| 30 | 20508 | 2 | PIVOT SCREW | | | | |
| 31 | 20511 | 1 | LEVER | SEAL KIT P/N-13552 | | | |
| 32 | 20515 | 1 | VALVE SPOOL | * DENOTES PART IN SEAL KIT | | | EAL KIT |

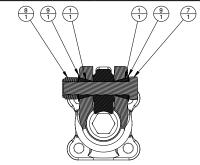
BR50 BREAKER FOOT PARTS LIST

BREAKER FOOT ASSEMBLY (STANDARD) P/N-72825 (MODEL BR50120 and BR50125) 72825 Assembly Includes Items 1 thru 14 Below.

| ITEM | P/N | QTY | DESCRIPTION |
|------|-------|-----|--------------------|
| 1 | 01269 | 2 | TAPER SLEEVE |
| 2 | 01744 | 1 | SPRING |
| 3 | 01837 | 1 | LATCH |
| 4 | 02022 | 1 | O-RING* |
| 5 | 03127 | 1 | ROD WIPER* |
| 6 | 04081 | 1 | HEX BUSHING 1-1/8" |



| ITEM | P/N | QTY | DESCRIPTION |
|------|-------|-----|-----------------|
| 7 | 04983 | 1 | FOOT LATCH BOLT |
| 8 | 04984 | 1 | NYLOCK NUT |
| 9 | 04985 | 2 | SPRING WASHER |
| 10 | 08411 | 1 | DETENT |
| 11 | 09642 | 1 | BACK UP WASHER |
| 12 | 09643 | 1 | INSERT |
| 13 | 32275 | 1 | BREAKER FOOT |
| 14 | 34092 | 1 | SEAL* |



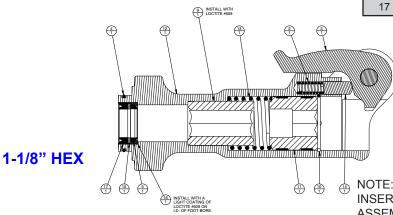
NOTE: IF YOU ARE REPLACING THE HEX BUSHING OR INSERT YOU MUST PURCHASE A COMPLETE BREAKER ASSEMBLY.

1-1/8" HEX

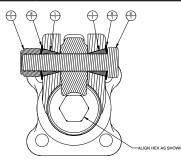
BREAKER FOOT ASSEMBLY (EASY RIDE) P/N-72932 (MODEL BR50120E) 72932 Assembly Includes Items 1 thru 17 Below.

6 INSTALL WITH 1 LOCTITE #609

| ITEM | P/N | QTY | DESCRIPTION |
|------|-------|-----|-----------------|
| 1 | 01269 | 2 | TAPER SLEEVE |
| 2 | 01744 | 1 | SPRING |
| 3 | 01837 | 1 | LATCH |
| 4 | 02022 | 1 | O-RING* |
| 5 | 03127 | 1 | ROD WIPER* |
| 6 | 04983 | 1 | FOOT LATCH BOLT |
| 7 | 04984 | 1 | NYLOCK NUT |
| 8 | 04985 | 2 | SPRING WASHER |



| ITEM | P/N | QTY | DESCRIPTION |
|------|-------|-----|----------------------|
| 9 | 07517 | 1 | HEX BUSHING 1-1/8" |
| 10 | 07522 | 1 | RETAINING RING |
| 11 | 08115 | 1 | COLLAR SUPPORT ASSY. |
| 12 | 08157 | 1 | BREAKER FOOT |
| 13 | 08158 | 1 | SPRING |
| 14 | 08411 | 1 | DETENT |
| 15 | 09642 | 1 | BACK UP WASHER |
| 16 | 09643 | 1 | INSERT |
| 17 | 34092 | 1 | CUP SEAL* |



NOTE: IF YOU ARE REPLACING THE HEX BUSHING OR INSERT YOU MUST PURCHASE A COMPLETE BREAKER ASSEMBLY.

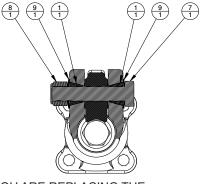
BR50 BREAKER FOOT PARTS LIST

BREAKER FOOT ASSEMBLY (STANDARD) P/N-72828 (MODELS BR50130 and BR50135) 72828 Assembly includes items 1 thru 14 Below.

| ITEM | P/N | QTY | DESCRIPTION |
|------|-------|-----|--------------------|
| 1 | 01269 | 2 | TAPER SLEEVE |
| 2 | 01744 | 1 | SPRING |
| 3 | 01837 | 1 | LATCH |
| 4 | 02022 | 1 | O-RING* |
| 5 | 03127 | 1 | ROD WIPER* |
| 6 | 04597 | 1 | HEX BUSHING 1-1/4" |

| 6 | 04597 | 1 | HEX BUSHING 1-1/4" | | 12 |
|--------|---|--|--|--------------|---|
| | | $\begin{pmatrix} 12\\ 1 \end{pmatrix}$ | INSTALL WITH A LIGHT COATING OF LOCTITE #609 ON I.D. OF FOOT BORE | | 13 |
| | | Ŷ | | | 14 |
| | (4) | | $\left(\frac{3}{1}\right)$ | | |
| | 1 | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | ahiinin | | | |
| | | | | | |
| 1-1/4" | HEX | | | | |
| | | | | X | |
| | | 1 | | \mathbb{W} | |
| | / / | | | | |
| | / / | | | \setminus | |
| | | 1 | | | |
| | $ \begin{array}{c} 14\\ 1 \end{array} $ $ \begin{array}{c} 11\\ 1 \end{array} $ | 5 | $\begin{pmatrix} 13\\1 \end{pmatrix}$ $\begin{pmatrix} 2\\1 \end{pmatrix}$ |) | $\begin{pmatrix} 10 \\ 1 \end{pmatrix}$ |
| | | | 6 INSTALL WITH | | |
| | | | LOCTITE #609 | | |

| ITEM | P/N | QTY | DESCRIPTION |
|------|-------|-----|-----------------|
| 7 | 04983 | 1 | FOOT LATCH BOLT |
| 8 | 04984 | 1 | NYLOCK NUT |
| 9 | 04985 | 2 | SPRING WASHER |
| 10 | 08411 | 1 | DETENT |
| 11 | 09642 | 1 | BACK UP WASHER |
| 12 | 09643 | 1 | INSERT |
| 13 | 32275 | 1 | BREAKER FOOT |
| 14 | 34092 | 1 | CUP SEAL* |



NOTE: IF YOU ARE REPLACING THE HEX BUSHING OR INSERT YOU MUST PURCHASE A COMPLETE BREAKER ASSEMBLY.

BREAKER FOOT ASSEMBLY (EASY RIDE) P/N-72019 (MODEL BR50130E) 72019 Assembly Includes Items 1 thru 17 Below.

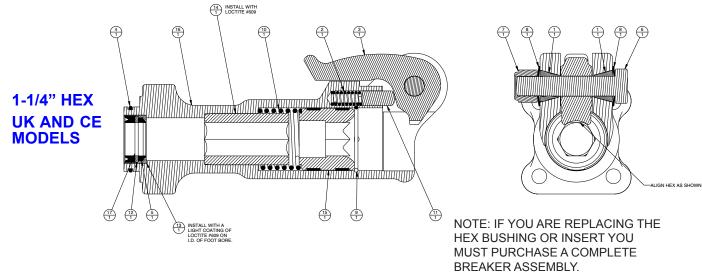
| | • | | | | | | | | | | |
|--|-------------------------|------|--|--|------|-------|-----|----------------------|--|--|--|
| ITEM | P/N | QTY | DESCRIPTION | | ITEM | P/N | QTY | DESCRIPTION | | | |
| 1 | 01269 | 2 | TAPER SLEEVE | | 9 | 07518 | 1 | HEX BUSHING 1-1/4" | | | |
| 2 | 01744 | 1 | SPRING | | 10 | 07522 | 1 | RETAINING RING | | | |
| 3 | 01837 | 1 | LATCH | | 11 | 08116 | 1 | COLLAR SUPPORT ASSY. | | | |
| 4 | 02022 | 1 | O-RING* | | 12 | 08157 | 1 | BREAKER FOOT | | | |
| 5 | 03127 | 1 | ROD WIPER* | | 13 | 08158 | 1 | SPRING | | | |
| 6 | 04983 | 1 | FOOT LATCH BOLT | | 14 | 08411 | 1 | DETENT | | | |
| 7 | 04984 | 1 | NYLOCK NUT | | 15 | 09642 | 1 | BACK UP WASHER | | | |
| 8 | 8 04985 2 SPRING WASHER | | | | 16 | 09643 | 1 | INSERT | | | |
| INSTALL WITH 17 34092 1 CUP SEAL* | | | | | | | | | | | |
| NOTE: IF YOU ARE REPLACING THE HEX BUSHING OR INSERT YOU MUST PURCHASE A COMPLETE BREAK- ER ASSEMBLY. 1-1/4" HEX | | | | | | | | | | | |
| 22 N RR | 50 Lloor Mo | nual | (18) INSTALL WITH A LIGHT COATING OF LOCTITE #809 ON I.D. OF FOOT BORE. | | | | | ста | | | |

BR50 BREAKER FOOT PARTS LIST

BREAKER FOOT ASSEMBLY (EASY RIDE) UK P/N-48772 (MODELS BR5017801, BR5017801AA, BR5057801 and BR5057801AA)

| ITEM | P/N | QTY | DESCRIPTION |
|------|-------|-----|-----------------|
| 1 | 01269 | 2 | TAPER SLEEVE |
| 2 | 01744 | 1 | SPRING |
| 3 | 01837 | 1 | LATCH |
| 4 | 02022 | 1 | O-RING* |
| 5 | 03127 | 1 | ROD WIPER* |
| 6 | 04983 | 1 | FOOT LATCH BOLT |
| 7 | 04984 | 1 | NYLOCK NUT |
| 8 | 04985 | 2 | SPRING WASHER |

| ITEM | P/N | QTY | DESCRIPTION |
|------|-------|-----|----------------------|
| 9 | 07522 | 1 | RETAINING RING |
| 10 | 08158 | 1 | SPRING |
| 11 | 08411 | 1 | DETENT |
| 12 | 09642 | 1 | BACK UP WASHER |
| 13 | 09643 | 1 | INSERT |
| 14 | 11230 | 1 | HEX BUSHING 1-1/4" |
| 15 | 11234 | 1 | COLLAR SUPPORT ASSY. |
| 16 | 11636 | 1 | BREAKER FOOT |
| 17 | 34092 | 1 | CUP SEAL* |



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