

BR40

HYDRAULIC BREAKER



SAFETY, OPERATION AND MAINTENANCE **USER MANUAL**









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DECLARATION OF CONFORMITY

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





I, the undersigned:
Ich, der Unterzeichnende
Je soussigné:
El abajo firmante:
lo cottocoritto:

Catagoniu

Weisbeck, Andy

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

Hydraulia Hand Hald Canarata Proaker

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.	Kategorie: Catégorie: Categoria: Categoria:	Tryuraunc Hand Heid Goncrete Breaker	
2.	Make/Marke/Marque/Marca/Marca	Stanley	
3.	Type/Type/Tipo/Tipo:	BR4056801AA	
4.	Serial number of equipment: Seriennummer des Geräts: Numéro de série de l'équipement: Numero de serie del equipo:	AII	

5. Mass/Masse/Masse/Masa/Massa 21 kg

Matricola dell'attrezzatura:

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
EN Noise Directive	792-4:2004+A1:2008 2000/14/EC:2005	Self SMP Svensk Maskinprovning AB (Notified body ID 0404, Annex VI) Fyrisborgsgatan 3, 754 50 Uppsala, Sweden Certificate #20/213/010
Machinery Directive	2006/42/EC:2006	Self

6.	Special Provisions: None	7. Measurements:	Measured Sound Power Level 106 LwA
	Spezielle Bestimmungen:	Messungen	Guaranteed Sound Power Level 107 LwA
	Dispositions particulières:	Mesures	Measured in accordance to Directive 2000/14/E0
	Provisiones especiales:	Mediciones	Annex III, Part B, No 10, 15 kg <m< 30="" kg<="" td=""></m<>
	Disposizioni speciali:	Misurazioni	•

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	Stanley F	Hydraulic Tools,	Milwaukie, Oregon	USA	Date/Datum/le/Fecha/Data	1-5-11

Signature/Unterschrift/Signature/Firma/Firma

Position/Position/Fonction/Cargo/Posizione Engineering Manager

P/N- 52570 Rev. 4 1/5/2011



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IMPORTANT

To fill out a Product Warranty Recording form, and for information on your warranty, visit Stanleyhydraulic.com and select the Warranty tab. (**NOTE:** The warranty recording form must be submitted to validate the warranty).

SERVICING THE STANLEY HYDRAULIC BREAKER. 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.



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, will result in death or serious injury.

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>.

IMPORTANT

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. nance personnel.	Keep these instructions in an area accessible to the operator and mainte-



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 BR40 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.



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.
- Always wear personal protection equipment (PPE) such as goggles, safety shoes, head, eye, breathing, and ear protection when operating the tool. Use gloves and aprons when necessary.
- 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.

▲ WARNING

Exposure to crystalline Silica (sometimes called "silica dust") as a result of breaking, drilling, or hammering of rock, concrete, asphalt or other materials may cause Silicosis (a serious lung disease), silicosis-related illnesses, cancer, or death.

Respiratory protection is highly recommended when working with materials containing Silica Dust.

Always wear a respirator approved for protection against crystalline silica.



TOOL STICKERS & TAGS



Stanley Hydraulic tools Division of the Stanley Works 3810 SE Naef Road Milwaukie, OR 97267

05152 Stanley Decal



71072 **CE Tool Plate**



58601 Sound Level Decal (CE Tool only)



11206 Circuit Type C Decal (CE Tool only)

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.

BR40 BREAKER

WEIGHT: 44 lb / 20 kg FLOW: 6 gpm / 23 lpm PRESSURE: 2000 psi / 140 bar

Name Tag (BR40568YA)



12835 Name Tag (BR40550)



Composite Decal (CE Tool only)

DANGER

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 CONDUCTIVE ON OR NEAR ELECTRICLINES BE SURE THE HOSE IS MAINTAINED AS NON-CONDUCTIVE. THE HOSE SHOULD BE REGULARLY TESTED FOR ELECTRIC CUR-RENT LEAKAGE IN ACCORDANCE WITH YOUR SAFETY DEPARTMENT INSTRUCTIONS.

- A HYDRAULIC LEAK OR BURST MAY CAUSE OIL INJECTION INTO THE BODY OR CAUSE OTHER SEVERE PERSONAL INJURY.
- Do NOT EXCEED SPECIFIED FLOW AND PRESSURE FOR THIS TOOL. EXCESS FLOW OR PRESSURE MAY CAUSE A LEAK OR BURST.
- DO NOT EXCEED RATED WORKING PRESSURE OF HYDRAULIC HOSE USED WITH THIS TOOL. EXCESS PRESSURE MAY CAUSE A LEAK OR BURST.
- 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

DANGER

- D. DO NOT LIFT OR CARRY TOOL BY THE HOSES. DO NOT ABUSE HOSE. DO NOT USE KINKED, TORN OR DAMAGED HOSE.

 MAKE SURE HYDRAULD HOSES ARE PROPERLY CONMECTED 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. SYSTEM METURN HOSE MUST ALWAYS BE CONNECTED TO TOOL "OUT" PORT. REVERSING CONNECTIONS MAY CAUSE REVERSE PERSONAL INJURY.
- PERSONAL INJURY.

 DO NOT CONNECT OPEN-CENTER TOOLS TO CLOSED-CENTER HYDRAULIC SYSTEMS. THIS MAY RESULT IN LOSS OF OTHER HYDRAULIC FUNCTIONS POWERED BY THE SAME SYSTEMANDIOR SEVERE PERSONAL INJURY.
- BYSTANDERS MAY BE INJURED IN YOUR WORK AREA.
 KEEP BYSTANDERS CLEAR OF YOUR WORK AREA. WEAR HEARING, EYE, FOOT, HAND AND HEAD PROTECTION.
- 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

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



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)



HOSE RECOMMENDATIONS

Fool to Hydraulic Circuit Hose Recommendations

lions are intended to keep return line pressure minimum hose diameters for various hose The chart to the right shows recommended engths based on gallons per minute (gpm)/ (back pressure) to a minimum acceptable leviters per minute (lpm). These recommendael to ensure maximum tool performance. This chart is intended to be used for hydraulic draulic Tools tool operating requirements and All hydraulic hose must have at least a rated minimum working pressure equal to the maxitool applications only based on Stanley Hyshould not be used for any other applications.

All hydraulic hose must meet or exceed specifications as set forth by SAE J517. mum hydraulic system relief valve setting.

Oil	Oil Flow	Hose L	Hose Lengths	Inside D	Inside Diameter	USE	Min. Workir	Min. Working Pressure
GPM	LPM	FEET	METERS	HONI	MM	(Press/Return)	PSI	BAR
		Certified No	on-Conductive	Hose - Fiber	r Braid - for	Certified Non-Conductive Hose - Fiber Braid - for Utility Bucket Trucks	Frucks	
4-9	15-34	up to 10	up to 3	3/8	10	Both	2250	155
	Conducti	ive Hose - Wire	Braid or Fiber	Braid -DO	NOT USE NE	Conductive Hose - Wire Braid or Fiber Braid -DO NOT USE NEAR ELECTRICAL CONDUCTORS	AL CONDUCT	ORS
4-6	15-23	up to 25	up to 7.5	8/8	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	8/9	16	Both	2500	175
7 7	0,7	000	00	2/8	16	Pressure	2500	175
c:01-c	04-8	005-001	08-00	3/4	19	Return	2500	175
10-13	38-49	up to 50	up to 15	8/9	16	Both	2500	175
7	00	77	75	2/8	16	Pressure	2500	175
2 -0	00-49	001-10	00-01	3/4	19	Return	2500	175
7	000	400 300	30.60	3/4	19	Pressure	2500	175
2-0	90-49	002-001	00-00	1	25.4	Return	2500	175
, ,	0	70	9	2/8	16	Pressure	2500	175
2 - 2	48-00	cz 01 dn	o 01 dn	3/4	19	Return	2500	175
707	70.60	700	000	3/4	19	Pressure	2500	175
2	48-00	70-100	0.00	_	25.4	Return	2500	175

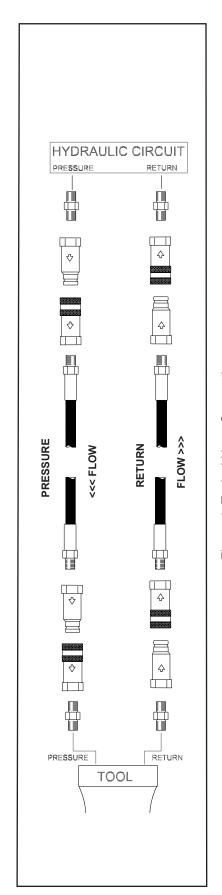


Figure 1. Typical Hose Connections



HTMA REQUIREMENTS

TOOL CATEGORY

HYDRAULIC SYSTEM	20Lpm at 138bar BHTMA CATEGORY	BHTMA CATEGORY		
REQUIREMENTS	TYPE I	TYPE II	TYPE III	TYPE RR
FLOW RATE	4–6 gpm	7–9 gpm	11–13 gpm	9–10.5 gpm
	(15–23 lpm)	(26–34 lpm)	(42–49 lpm)	(34–40 lpm)
TOOL OPERATING PRESSURE (At the power supply outlet)	2000 psi	2000 psi	2000 psi	2000 psi
	(145–155 bar)	(138 bar)	(138 bar)	(138 bar)
SYSTEM RELIEF VALVE SETTING (At the power supply outlet)	2100–2250 psi	2100–2250 psi	2100–2250 psi	2200–2300 psi
	(145–155 bar)	(145–155 bar)	(145–155 bar)	(145–155 bar)
MAXIMUM BACK PRESSURE (At tool end of the return hose)	250 psi	250 psi	250 psi	250 psi
	(17 bar)	(17 bar)	(17 bar)	(17 bar)
Measured at a max. fluid viscosity of: (At min. operating temperature)	400 ssu*	400 ssu*	400 ssu*	400 ssu*
	(82 centistokes)	(82 centistokes)	(82 centistokes)	(82 centistokes)
TEMPERATURE Sufficient heat rejection capacity to limit max. fluid temperature to: (At max. expected ambient temperature)	140 °F	140 °F	140 °F	140 °F
	(60 °C)	(60 °C)	(60 °C)	(60 °C)
Min. cooling capacity at a temperature difference of between ambient and fluid temps	3 hp	5 hp	7 hp	6 hp
	(2.24 kW)	(3.73 kW)	(4.47 kW)	(5.22 kW)
	40 °F	40 °F	40 °F	40 °F
	(22 °C)	(22 °C)	(22 °C)	(22 °C)

NOTE:

Do not operate the tool at oil temperatures above 140 °F (60 °C). Operation at higher temperatures can cause operator discomfort at the tool.

FILTER				
Min. full-flow filtration	25 microns	25 microns	25 microns	25 microns
Sized for flow of at least:	30 gpm	30 gpm	30 gpm	30 gpm
(For cold temp. start-up and max. dirt-holding	(114 lpm)	(114 lpm)	(114 lpm)	(114 lpm)
capacity)				
HYDRAULIC FLUID	100-400 ssu*	100-400 ssu*	100–400 ssu*	100-400 ssu*
Petroleum based		(20–82 c	entistokes)	
(Promium grade entitueer non conductive)				

(Premium grade, anti-wear, non-conductive)

VISCOSITY

(At min. and max. operating temps)

NOTE:

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

OPERATION

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

PRE-OPERATION PROCEDURES CHECK POWER SOURCE

- 1. Using a calibrated flowmeter and pressure gauge, check that the hydraulic power source develops a flow of 4–6 gpm/15–23 lpm at 1300 psi/90 bar.
- 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.
- 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.
- 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.
- 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 unit for proper flow and pressure (4–6 gpm/15–23 lpm, 1300–2000 psi/90–140 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 unit for proper flow and pressure (4–6 gpm/15–23 lpm, 1300–2000 psi/90–140 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 unit for proper flow (4–6 gpm/15–23 lpm).
	High backpressure.	Check hydraulic system for excessive backpressure (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.
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.



CHARGING THE ACCUMULATOR

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)



This assembly contains nitrogen under pressure.

- 1. Remove the plug from the handle or handle pivot.
- 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.
- 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 procedure.
- Install the plug.

ACCUMULATOR CHARGING

- 1. Perform Steps 1 through 4 of the accumulator testing procedure above.
- 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.



CHARGING THE ACCUMULATOR

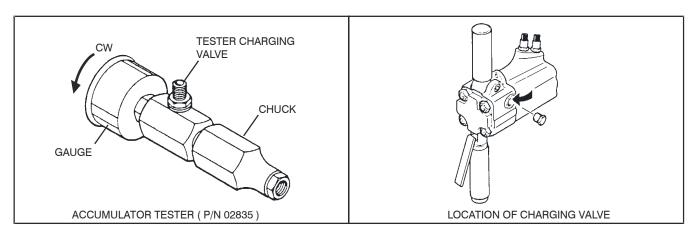
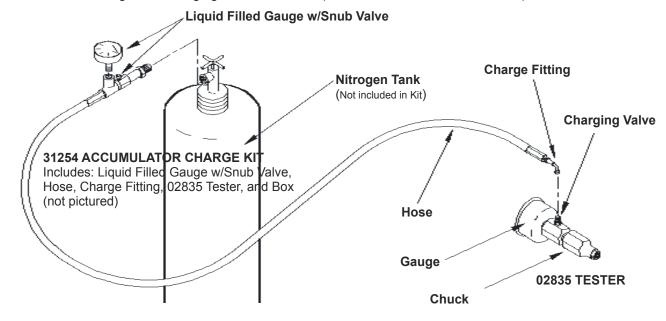


Figure 2. Charging the Accumulator (BR40 with Anti-Vibration Handles)



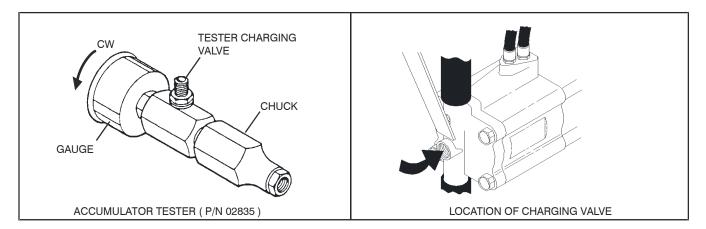


Figure 3. Charging the Accumulator (BR40 with T-Handles)

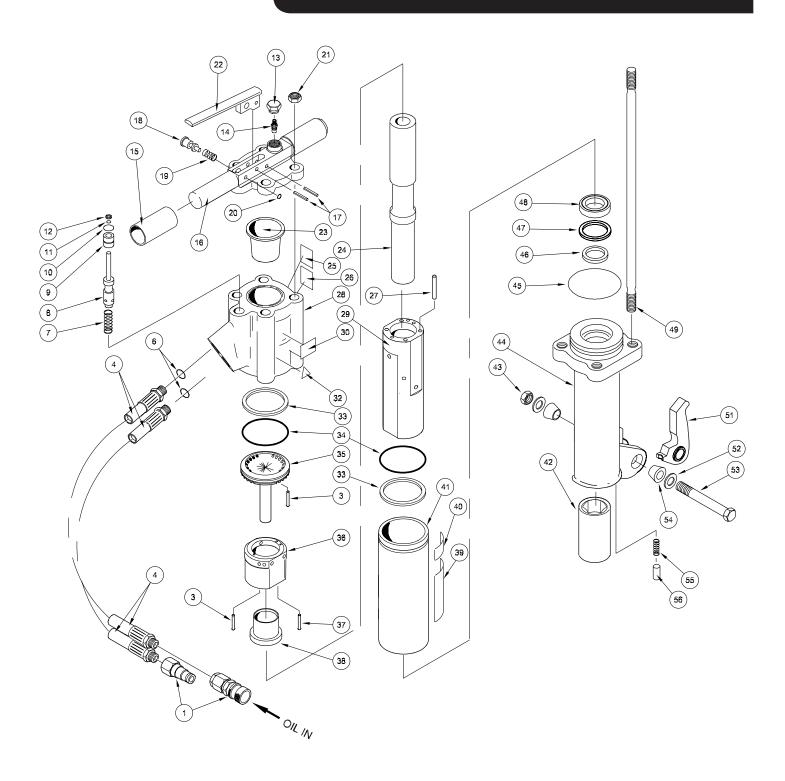


SPECIFICATIONS

Pressure Range	. 1300–2000 psi/90–140 ba
Flow Range	4-6 gpm/15-23 lpm
Optimum Flow	5 gpm/20 lpm
Maximum Back Pressure	250 Psi/17 ba
Couplers	
(Per	NFPA T3.20.15/ISO 16028
Connect Size & Type	3/8 in. Male Pipe Hose Ends
Weight	
Anti-V	ibration Handle 44 lbs/20 kg
Overall Length	
Anti-Vibi	ration Handle 25.2 in./65 cm
Overall Width at Handles	T-Handle 14 in./35 cm
Anti-Vibra	tion Handle 17.5 in./44.5 cm
Max. Fluid Temperature	140 °F/60 °C
System Type	Open or Closed Cente
Port Size	
HTMA Class I	
Guaranteed Sound Power Level (2000/14/EC)	107 dBA
Sound Pressure Level 1 meter (ISO 11203)	
Vibration Level (ISO 8662-5)	
Anti-	Vibration Handle 9.2 m/sec2
ACCECCODIEC	
ACCESSORIES	
1 in. Hex × 4-1/4 in. Shank	
Moil Point – 14 in. Long UC	07702
Narrow Chisel Point – 14 in. Long UC	
3-inch Chisel – 14 in. Long UC	
Clay Spade – 5-1/2 in. Blade	
Asphalt Wedge – 3 in. Wide	
Test Equipment	
• •	- Fitting) 4500
Accumulator Charge Assembly (Includes Liquid Filled Gauge w/ Valve, Hose, & Charg	
Accumulator Tester	
Flow and Pressure Tester	
Accumulator Charge Kit (Includes 02835 Tester, 15304 Charge Assembly & 372047 Cl Service Tools	narge Kit Box)31254
Tamper Sleeve Tool	01120
O-ring Tool Kit	
Flow Sleeve Removal Tube	
Flow Sleeve Removal Tool	
Accumulator Cylinder Puller	



BR40 T-HANDLE PARTS ILLUSTRATION





BR40 T-HANDLE PARTS LIST

	DADT			
ITEM	PART NO.	QTY	DESCRIPTION	
1	03971	1	COUPLER SET	
2	_	_	NO ITEM	
3	02900	2	ROLL PIN	
4	01652	2	ALTERNATE HOSE ASSY. – 12 INCH.	
5	12832	1	ORIFICE PLUG	
6	01605	2	O-RING (INCL W/ ITEM 4)	
7	04058	1	SPRING	
8	04077	1	VALVE SPOOL	
9	04057	1	BUSHING	
	07699	1	BUSHING ASSY (INCL ITEMS 9-12)	
10	00293	1	O-RING, 11/16 × 7/8 × 3/32	
11	01362	1	O-RING, 5/16 × 7/16 × 1/16	
12	04056	1	ROD WIPER	
13	07493	1	PLUG	
14	20499	1	CHARGE VALVE	
15	02494	2	HANDLE GRIP	
16	07483	1	HANDLE	
17	07492	2	SPIROL PIN, 1/4 × 1	
21	04374	4	LOCK NUT, 5/8-18	
22	04371	1	TRIGGER	
23	07479	1	ACCUMULATOR DIAPHRAGM	
24	12833	1	PISTON	
25	58601	1	SOUND POWER LEVEL DECAL	
26	28409	1	COMPOSITE SAFETY DECAL	
27	04605	4	PUSH PIN	
28	11588	1	ACCUMULATOR VALVE BLOCK	
29	07485	1	FLOW SLEEVE	
31	_	_	NO ITEM	
32	11206	1	CIRCUIT TYPE C DECAL	
33	04381	2	BACK-UP RING	
34	04379	2	O-RING, 2-9/16 × 2-3/4 × 3/32	
35	04378	1	PORTING BLOCK	
36	07480	1	AUTOMATIC VALVE BODY	
37	04571	2	PUSH PIN	
38	04382	1	AUTOMATIC VALVE	
39	05152	1	STANLEY DECAL	
40	28374	1	MODEL NUMBER DECAL	
	12835	1	NAME TAG, BR40550	
41	04383	1	FLOW SLEEVE TUBE	
42	07477	1	HEX BUSHING	
43	04374	1	LOCK NUT	
44	07445	1	BREAKER FOOT	
45	02022	1	O-RING, 2-1/4 × 2-1/2 × 1/8*	
46	04387	1	ROD WIPER	

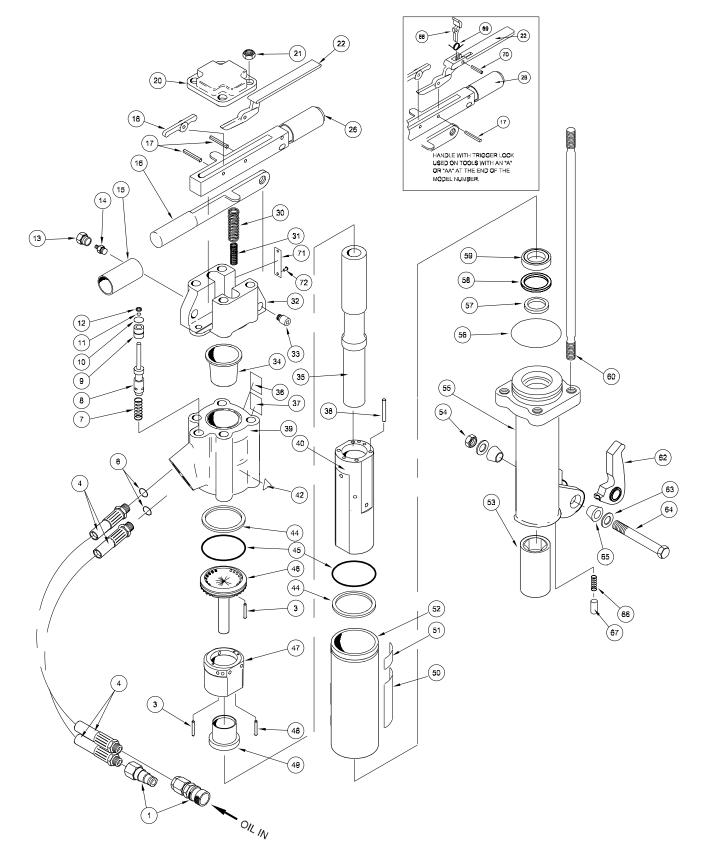
ITEM	PART NO.	QTY	DESCRIPTION
47	04780	1	BACK-UP WASHER
48	04386	4	CUP SEAL
49	04373	1	SIDE ROD
50	_	_	NO ITEM
51	04394	1	LATCH*
52	04716	1	SPRING WASHER*
53	04717	1	FOOT LATCH BOLT*
54	04715	2	RUBBER SLEEVE*
55	04392	1	SPRING*
56	04393	1	DETENT*
	04595		SEAL KIT

^{*} Part of Breaker Foot Assembly 07489 (BR40550, Includes 42–48 & 51–56)



BR40 PARTS

BR40 ANTI-VIBRATION HANDLE PARTS ILLUSTRATION





BR40 PARTS LIST

BR40 ANTI-VIBRATION HANDLE PARTS LIST

	PART			
ITEM	NO.	QTY	DESCRIPTION	
1	03971	1	COUPLER SET	
2	_	_	NO ITEM	
3	02900	2	ROLL PIN	
4	01652	2	HOSE ASSEMBLY, 12 INCH	
5	_		NO ITEM	
6	01605	2	O-RING (INCL WITH ITEM 4)	
7	04058	1	SPRING	
8	20515	1	VALVE SPOOL	
9	04057	1	BUSHING	
10	00293	1	O-RING, 11/16 × 7/8 × 3/32	
11	01362	1	O-RING, 5/16 × 7/16 × 1/16	
12	04056	1	ROD WIPER	
13	07493	1	PLUG	
14	20499	1	CHARGE VALVE	
15	02494	2	HANDLE GRIP	
16	28369	1	HANDLE, GUARDED	
17	20500	2	SPIROL PIN 1/4 × 1	
18	20511	1	LEVER	
20	28494	1	TOP PLATE	
21	04374	4	LOCK NUT 5/8-18	
22	58526	1	TRIGGER (USED ON MODEL # ENDING IN A OR AA)	
26	58529	1	TRIGGER HANDLE (USED ON MODEL # ENDING IN A OR AA)	
30	20540	2	SPRING	
31	20498	2	SPRING (TRIGGER LOCK MODELS)	
32	20505	1	HANDLE PIVOT	
33	20508	2	PIVOT SCREW	
34	07479	1	ACCUMULATOR DIAPHRAGM	
35	12833	1	PISTON	
36	58601	1	GUARANTEED SOUND POWER LEVEL (CE MODEL)	
37	28409	1	COMPOSITE SAFETY LABEL (CE MODEL)	
38	04605	4	PUSH PIN	
39	11588	1	ACCUMULATOR VALVE BLOCK	
40	07485	1	FLOW SLEEVE	
42	11206	1	CIRCUIT C DECAL	
43	_		NO ITEM	
44	04381	2	BACK-UP RING	
45	04379	2	O-RING, 2-9/16 × 2-3/4 × 3/32	
46	04378	1	PORTING BLOCK	
47	07480	1	AUTOMATIC VALVE BODY	
48	04571	2	PUSH PIN	

	PART			
ITEM	NO.	QTY	DESCRIPTION	
49	04382	1	AUTOMATIC VALVE	
50	05152	1	STANLEY DECAL	
51	28374	1	BR40 MODEL NUMBER DECAL	
52	04383	1	FLOW SLEEVE TUBE	
53	07477	1	HEX BUSHING *	
54	04374	1	STOP NUT *	
55	07445	1	BREAKER FOOT WITH INSERT ASSY	
56	02022	1	O-RING, 2-1/4 × 2-1/2 × 1/8-228 R16 *	
57	04387	1	ROD WIPER	
58	04780	1	BACK-UP WASHER	
59	04386	1	CUP SEAL	
60	20517	4	SIDE ROD	
61			NO ITEM	
62	04394	1	LATCH *	
63	04716	2	SPRING WASHER *	
64	04717	1	FOOT LATCH BOLT *	
65	04715	2	RUBBER SLEEVE *	
66	04392	1	SPRING *	
67	04393	1	DETENT *	
68	58527	1	TRIGGER LOCK (USED ON MODEL # ENDING IN A OR AA)	
69	66828	1	TORSION SPRING (USED ON MODEL # ENDING IN A OR AA)	
70	07624	1	ROLL PIN (USED ON MODEL # ENDING IN A OR AA)	
71	71072	1	CE TOOL PLATE	
72	02004	2	DRIVE PIN	
	04595		SEAL KIT	

BREAKER FOOT ASSEMBLY (T-HANDLE AND ANTI-VIBRATION HANDLE)				
P/N	SIZE	MODEL		
07489	1 IN. STANDARD ROTATED HEX	BR40550 (INCL 53-59 & 62-67)		
07510	1 IN. STANDARD	BR4056801A (INCL 53-59 & 62-67)		





Stanley Hydraulic Tools 3810 SE Naef Road Milwaukie, Oregon 503-659-5660 / Fax 503-652-1780 www.stanleyhydraulic.com

IMPORTANT

To fill out a Product Warranty Recording form, and for information on your warranty, visit Stanleyhydraulic.com and select the Warranty tab.

(NOTE: The warranty recording form must be submitted to validate the warranty).