Specifications

MODEL	**HB16**
WEIGHT	**35 LBS.**
SIZE (LXW)	**22" X 16"**
IMPACT ENERGY	**50 LB-FT**
IMPACT RATE	**1200 BPM**
OPERATING PRESSURE	**1650-2300 psi**
REQUIRED OIL FLOW4.	**5.5-7.0 GPM**
HOSE SIZE	**3/8" DIA.**
CHUCK SIZE	**1" X 4-1/4"**

THIS MANUAL IS SUBJECT TO CHANGE WITHOUT NOTICE

UNIT SERIAL NUMBER

SKIDRIL
P.O. BOX 8041
GREENSBORO, NC 27419
TEL: 800-843-3745

SKIDRIL

OPERATION & PARTS MANUAL

HYDRAULIC BREAKER/ DRIVER MODEL HB16

ANY PERSON OPERATING THIS MACHINE SHOULD READ AND UNDERSTAND THIS MANUAL FIRST!

FOLLOW ALL SAFETY INSTRUCTIONS

1-800-843-3745

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Service Notes

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Parts List Continued

REF.NO.	PART NO.	DESCRIPTION	QUANT
41	LH-0645 BH	HOSE	1
42	QC03M	COUPLER (MALE)	1
43	QC03F	COUPLER (FEMALE)	1
44	OS-22.4	O-RING	1
45			
46	QB-5/16	STEEL BALL	1
47	MIKTE173A	LOCK PIN	1
48	BH-12X50	BOLT	1
49	WF-12-2L	WASHER	2
50	1120-421	SUPPORT HANDLE ASSY	1
50-1	1120-421	HALF	1
50-2	1120-420	RACK	1
50-3	1120-422	CENTER CORE	1
50-4	1120-414	HANDLE GRIP	1
50-5	PR-8X30	PIN	1

Operation

PREPARATION FOR USE

1. Be Sure the power supply you are using provides the correct flow and pressure for the HB16. (SEE SPECIFICATIONS).

2. Be sure your hydraulic power supply has the correct type and amount of hydraulic oil.

*** Use *ONLY* Hydraulic oil ISO VG-32 or equivalent.**

3. Connect the breaker to the hoses from the power supply (pressure goes into top hose on driver (SEE COMPONENT IDENTIFICATION SECTION).

4. Inspect all hoses, connections, fittings and fasteners on the post driver for damage before each use.

5. By pushing down on the control lever the breaker will begin to impact.

6. Release the control lever when to stop of the breaker.

7. Shut down power supply and continue to the work location.

NOTICE!

* ALWAYS
Be sure your power source provides the correct pressure and flow as damage may occur, or performance may be reduced!

* ALWAYS
Connect hydraulic hoses to the the tool before starting the power supply

* ALWAYS be sure couplers are clean and free of debris before connecting!

* ALWAYS use the driver on a power unit with proper cooling and filtration.

WARNING!

* DO NOT operate the breaker with damaged hoses, fittings or fasteners.

* DO NOT substitute hoses for another make/ type.

* DO NOT use with breaker over your head.

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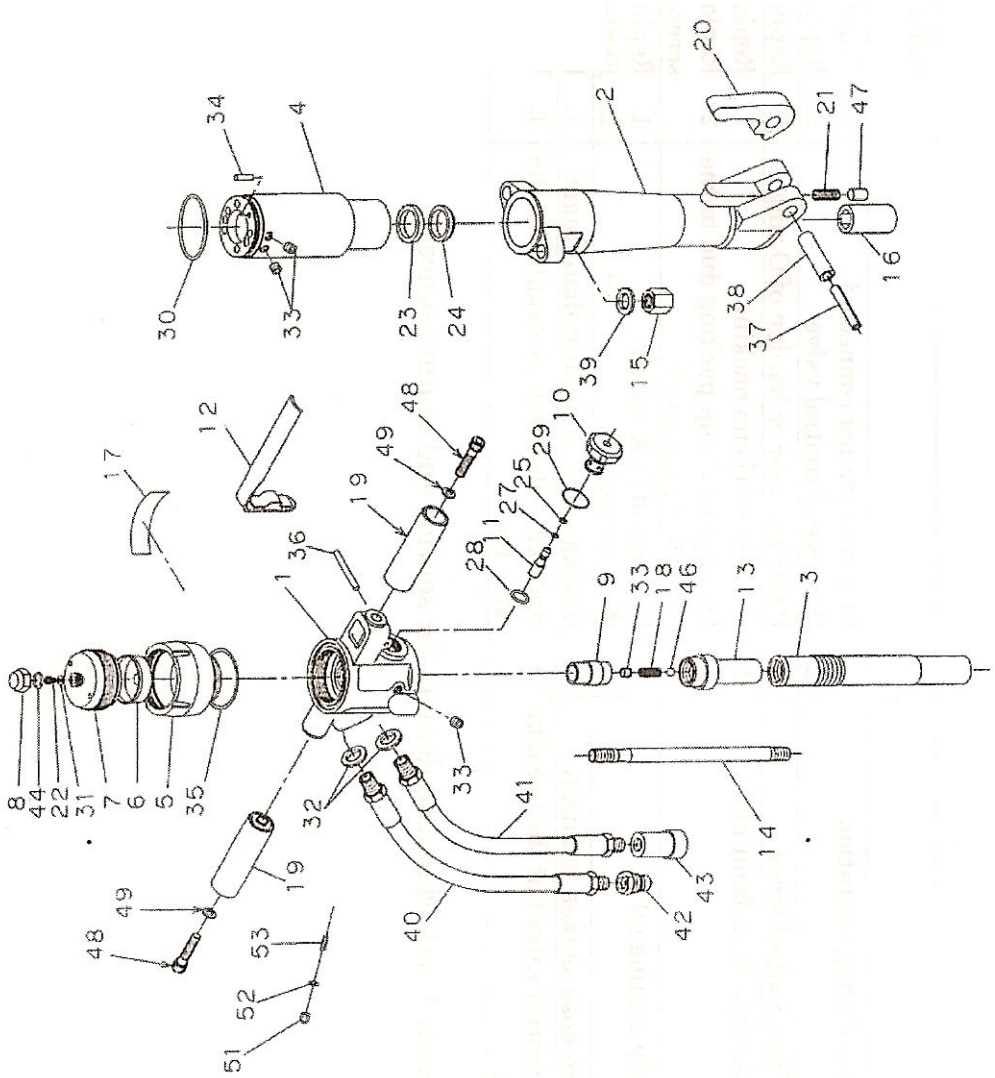
*DO be sure that the driver adapter (see component identification) snugly fits the post you are driving!

*DO check for overhead wires or utilities.

*DO call for a locate of underground utilities.

** WARNING! To avoid risk of injury or death, troubleshooting solutions marked with a red double-asterisk (**) should only be performed by an authorized SKIDRIL service center or trained professional .

Exploded View



Troubleshooting

1. The breaker does not operate when the control handle is actuated.

POSSIBLE CAUSE	SOLUTION
Power supply is not operating.	Start power pack per manufacturers instruction manual.
Disconnected hose.	Stop power supply. Connect the hoses.
Incompletely connected couplings.	Stop power supply. Check each coupling to ensure they are competely engaged.
Control valve malfunction. **	Disassemble breaker. Clean all debris from valve body. Reassemble. **
Broken control valve. **	Replace control valve. **

2. The breaker operates, but the impact rate is low or force is weak.

POSSIBLE CAUSE	SOLUTION
Low hydraulic fluid flow rate.	Check with power supply manufacturer to confirm correct pressure/flow for the driver (see driver specifications)
Relief valve setting too low. **	Adjust relief valve setting. **
Oil temperature too hot.	Confrim your power supply has sufficient oil volume and cooling capability. Test by allowing power supply to cool down for 15-30 minutes, then try again. If Driver operates contac power suply manufacturer.
Control valve malfunction. **	Disassemble breaker and clean valve body. Reassemble.**
Hydraulic oil level too low.	Add hydraulic oil to your power supply (contact manufacturer).

Troubleshooting Continued

3. Breaker striking rate is normal, but impact force is weak.

POSSIBLE CAUSE	SOLUTION
Low nitrogen accumulator gas pressure. **	Charge nitrogen accumulator to 50kg/cm2. **
Broken accumulator diaphragm. **	Replace accumulator diaphragm. **
Oil temperature too high.	Stop power supply. Check/fill oil level. Contact you power supply manufacturer.

4. The Breaker suddenly stops during operation.

POSSIBLE CAUSE	SOLUTION
Disconnected quick-coupling.	Stop power supply. Re-connect quick coupling. Check all other hose connections.
Broken control valve.	Replace control valve.**

5. Oil is leaking from the control lever mechanism.

POSSIBLE CAUSE	SOLUTION
Worn or hardened O-ring. **	Replace O-ring. **

** WARNING! To avoid risk of injury or death, troubleshooting solutions marked with a red double-asterisk (**) should only be performed by an authorized SKIDRIL service center or trained professional.

Troubleshooting Continued

6. Oil is leaking from the front end of the Driver.

POSSIBLE CAUSE	SOLUTION
Worn U-cup packing on driver.	Replace U-cup packing.
U-cup packing damaged by scored piston rod.	Smooth out scored areas on piston rod with oilstone, and then replace the U-cup Packing.

7. The high pressure hose vibrates intensely.

POSSIBLE CAUSE	SOLUTION
The nitrogen accumulator diaphragm is damaged. **	Replace diaphragm. **

8. The Driver does not stop impacting when the control handle is released.

POSSIBLE CAUSE	SOLUTION
Debris is causing the control valve rod to stick open. **	Disassemble and remove debris from valve assembly. Reassemble. **

** WARNING! To avoid risk of injury or death, troubleshooting solutions marked with a red double-asterisk (**) should only be performed by an authorized SKIDRIL service center or trained professional.

Periodic Maintenance

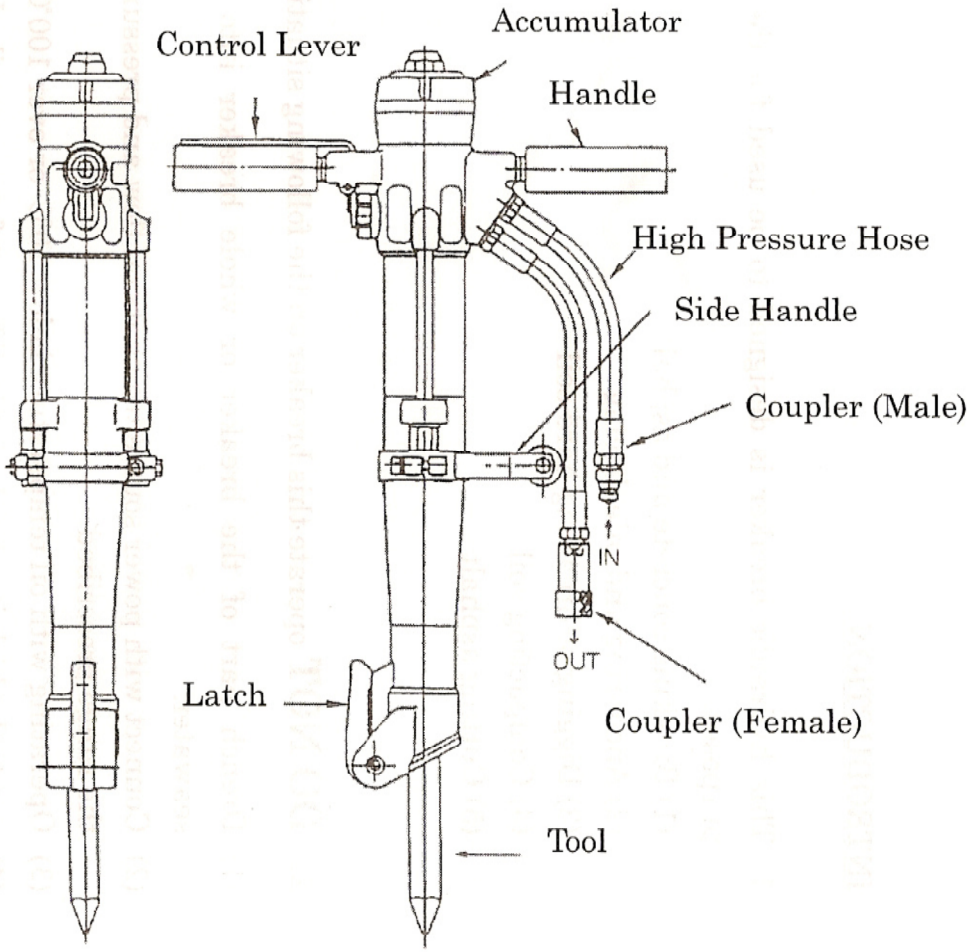
***CHECK FOR LOOSE MISSING OR DAMAGED HOSES, TOOLS OR FASTENERS AND HAVE REPAIRED OR**	Daily
****RECHARGE OF ACCUMULATOR**	300 HOURS OR AT LEAST EVERY YEAR
****REPLACE ACCUMULATOR DIAPHRAGM**	500 HOURS OR AT LEAST EVERY TWO YEARS
****REPLACE VALVE ROD O-RING**	500 HOURS OR AT LEAST EVERY TWO YEARS
****REPLACE U-CUP PACKING**	500 HOURS OR AT LEAST EVERY TWO YEARS
****REPLACEMENT OF ALL O-RINGS**	EVERY 3 YEARS

****NOTE ALL ITEMS IN RED SHOULD BE PERFORMED BY AND AUTHORIZED SKIDRIL SERVICE CENTER!**

Parts List

REF.NO.	PART NO.	DESCRIPTION	QUANT
1	MIXTC101A9	VALVE BODY	1
2	MB18X002A1	FRONT CAP	1
3	MIXTD103A7	PISTON (A)	1
4	M1XTD104B5	CYLINDER (A)	1
5	MIXTD105A3	SHELL	1
6	MB02E006A0	DIAPHRAGM	1
7	M1XTE110A2	LID	1
8	M1KTE108A3	NUT	1
9	MIXTE108A5	CONTROL VALVE	1
10	M1KTE110A4	VALVE GUIDE	1
11	MIKTE111A6	VALVE ROD	1
12	M1KTE112A	CONTROL LEVER	1
13	M1XTE109A0	INNER TUBE	1
14	M1XTE111A1	DRAW BOLT	2
15	1120-423	NUT	2
16	M1KTE116A	CHISEL BUSHING	1
17	MIKTE117A	SEAL	1
18	MIHTE107A1	SPRING (P)	1
19	MIKTE119A	HANDLE GRIP	1
20	1120-419-01	LATCH 1	1

Component Identification



Parts List Continued

REF.NO.	PART NO.	DESCRIPTION	QUANT
21	1110-410-01	LOCK SPRING	1
22	1120-413-C	CAP BOLT	1
23	IUIS130.40.6	U-CUP PACKING	1
24	LBI30.38.5.6.5	DUST SEAL	1
25	OBP-5	BACK-UP RING	1
26			1
27	OP-5	O-RING	1
28	OP-14	O-RING	1
29	OC-0621	O-RING	1
30	OG-60	O-RING	2
31	W06S1	SEAL WASHER	2
32	WS-18	SEAL WASHER	3
33	BPH1-PT1/8	BOLT	8
34	PR-6X20	PIN	1
35	OG-65	O-RING	1
36	PR-5X36	PIN	1
37	SP-1060	PIN 10X65	1
38	SP-1660	PIN 16X65	1
39	WF-142 JIS	WASHER	2
40	HH-0630 BH	HOSE	1

SAFETY FIRST

READ, UNDERSTAND AND FOLLOW SAFETY GUIDELINES AND SAFE WORK PRACTICES.

TAKE NOTE OF ***WARNINGS*** IN THIS MANUAL AS THEY IDENTIFY INSTRUCTIONS INTENDED TO PREVENT INJURY TO YOU OR OTHERS.

NOTICE: **NOTICES:** ARE INTENDED TO PREVENT DAMAGE TO THE MACHINE OR PROPERTY.

WARNING!

DO NOT: USE EQUIPMENT IN APPLICATIONS FOR WHICH IT IS NOT INTENDED.

DO NOT: USE IMPROPERLY TRAINED OR UNQUALIFIED PERSONNEL TO OPERATE OR PERFORM REPAIRS ON THIS EQUIPMENT.

DO NOT: LEAVE MACHINE RUNNING UNATTENDED OR WHEN NOT IN USE.

DO NOT: REFUEL OR ADD HYDRAULIC OIL TO A HOT OR RUNNING MACHINE.

DO NOT: SPILL FUEL OR HYDRAULIC OIL WHEN FILLING THE MACHINE.

DO NOT: ATTACH OR DETACH THE DRIVER HOSES WHILE THE POWER SUPPLY IS ON OR RUNIING.

DO NOT: REFUEL NEAR AN OPEN FLAME OR SPARK.

DO NOT: OPERATE THE MACHINE WITHOUT PROPER SAFETY PROTECTION SUCH AS PROTECTIVE EYEWEAR, SAFETY BOOTS, EAR PROTECTION, HARD HAT, GLOVES ETC.

DO NOT: MODIFY THE MACHINE IN ANY WAY OR USE WITH NON SKIDRIL PARTS.

DO NOT: OPERATE THE MACHINE WITHOUT SOLID FOOTING OR WITH THE MACHINE ELEVATED ABOVE YOUR HEAD.

DO NOT: STORE THE MACHINE IN A PLACE OR POSITION THAT IT MAY FALL , DROP OR SLIDE FROM WHEN NOT IN USE.

DO NOT: OPERATE THE MACHINE WITH LOOSE, DAMAGED OR

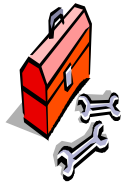
Helpful Tips & Service

When using the breaker to use tools with the correct shank size and tolerance. Call SKIDRIL if you have any questions.

To maximize driving power, do not use more than 25' of hose from the pack to the driver.

To prevent dirt from entering the quick-connect couplings, and possibly damaging the breaker or power supply, be sure to clip couplings together after disconnecting driver.

Your *SKIDRIL* requires regular service (at least annually) to maintain it in good running order, and ensure long life.



Where to obtain service:

SKIDRIL **services the products it products so send it to:**

SKIDRIL INC., 235 Labrador drive, Randleman, NC 27317 U.S.A.

How to ship:

NOTICE: Do not ship gasoline-powered equipment by airfreight, even after emptying all fluids, as this is in violation of FAA regulations. Use a ground freight carrier instead.

Most major carriers can deliver the machine to us and back to you, call us if you would like it picked up.