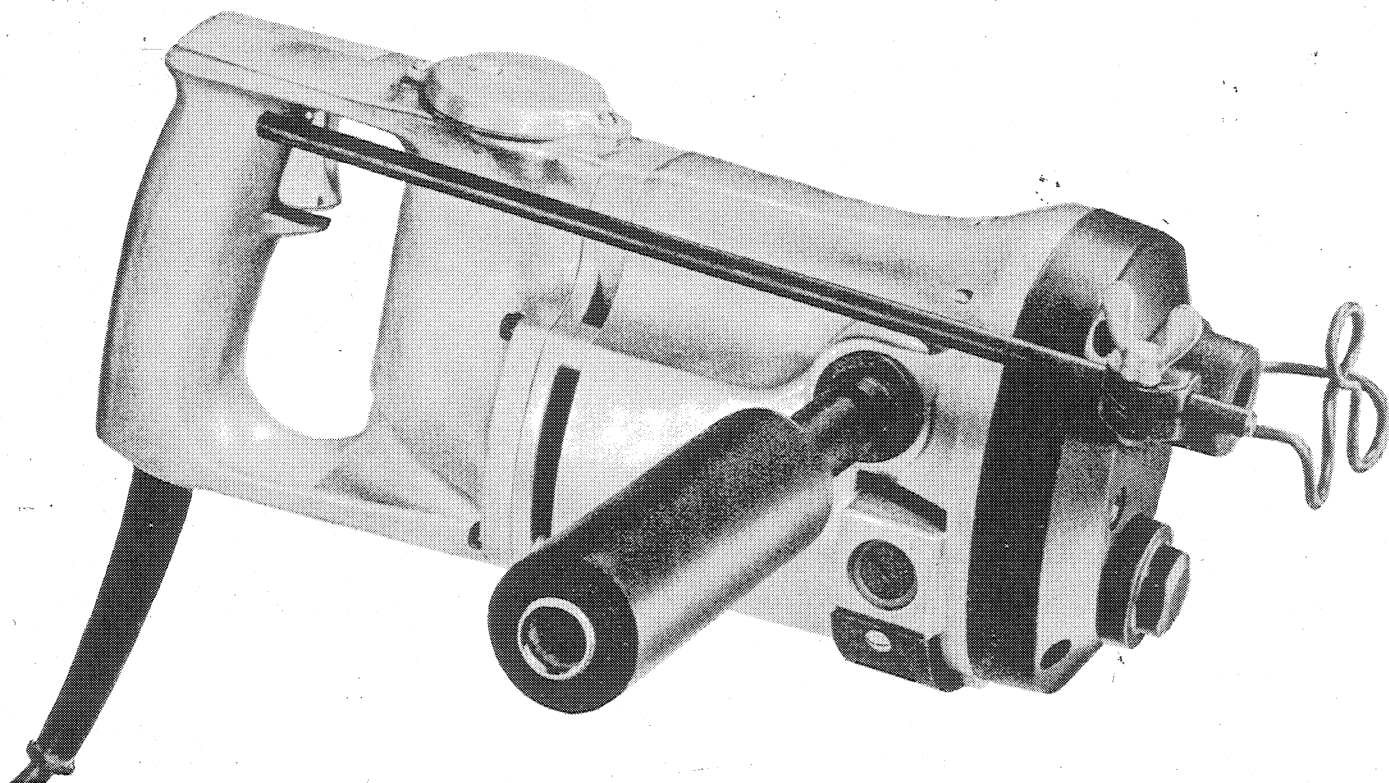




Black & Decker®



This booklet is provided for your convenience in the use and care of your new Black & Decker tool. These instructions include operation, safety precautions, preventive maintenance, maintenance and other pertinent data to assist you in assuring long life and dependable service.

**5045
HEAVY-DUTY
ROTARY
HAMMER**

SAFETY RULES FOR POWER TOOLS

- GROUND ALL TOOLS—UNLESS DOUBLE-INSULATED.** If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If adapter is used to accommodate two-pronged receptacle, the adapter wire must be attached to a **known ground**. Never remove third prong.
- KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
- AVOID DANGEROUS ENVIRONMENT.** Don't expose power tools to rain. Don't use power tool in damp or wet locations. And keep work area well lit.
- KEEP CHILDREN AWAY.** All visitors should be kept safe distance from work area.
- STORE IDLE TOOLS.** When not in use, tools should be stored in dry, high or locked-up place—out of reach of children.
- DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
- USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool.
- WEAR PROPER APPAREL.** No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.
- USE SAFETY GLASSES** with most tools. Also face or dust mask if cutting operation is dusty.
- DON'T ABUSE CORD.** Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil and sharp edges.
- DON'T OVERREACH.** Keep proper footing and balance at all times.
- MAINTAIN TOOLS WITH CARE.** Keep tools sharp at all times, and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- DISCONNECT TOOLS.** When not in use, before servicing; when changing accessories such as blades, bits, cutters, etc.
- REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- AVOID ACCIDENTAL STARTING:** Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.
- OUTDOOR USE EXTENSION CORDS—**When tool is used outdoors, use only extension cords suitable for use outdoors and so marked.
- DO NOT OPERATE** portable electric tools in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.

EXTRA SAFETY RULES FOR HAMMERS

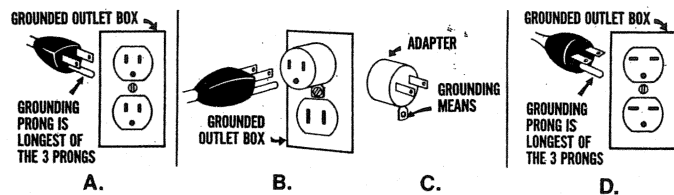
- Wear safety goggles or other eye protection.
- Wear ear protectors when hammering for extended periods.
- Always lock the tool retainer before using Hammer.
- Always use the side handle supplied with the tool. Keep a firm grip on the Hammer when it is operating.
- Don't overreach with the Hammer. Maintain a firm balanced working stance. When necessary, use only properly positioned, safe platforms, ladders and scaffolds, to do the job SAFELY!
- Hammer bits and tools get hot in operation. Wear gloves when touching them.
- Keep slip clutch in proper adjustment.
- Regularly check tightness of all external screws.

GROUNDING

This tool should be grounded while in use to protect the operator from electric shock. The tool is equipped with an approved three-conductor cord and three-prong grounding type plug to fit the proper grounding type receptacle. The green (or green and yellow) conductor in the cord is the grounding wire. Never connect the green (or green and yellow) wire to a live terminal.

If your unit is for use on less than 150 volts, it has a plug like that shown in Figure A. If it is for use on 150 to 250 volts, it has a plug like that shown in Figure D. An adapter, Figures B and C, is available for connecting Figure A plugs to two-prong receptacles. The green-colored rigid ear, lug, etc., must be connected to a permanent ground such as a properly grounded outlet box.

No adapter is available for a plug as shown in Figure D. Grounding Adapter shown in Figures B & C is Not for Use in Canada.



We recommend that you **NEVER** disassemble the tool or try to do any rewiring in the electrical system. Any repairs should be performed only by B&D Service Centers or other qualified service organizations. Should you be determined to make a repair yourself, remember that the green colored wire is the "grounding" wire. Never connect this green wire to a "live" terminal. If you replace the plug on the power cord, be sure to connect the green wire only to the grounding (longest) prong on a 3-prong plug.

EXTENSION CORD

When using the tool at a considerable distance from power source, a 3-conductor, grounding-type extension cord of **adequate size** must be used for safety, and to prevent loss of power and over-heating. Use the table below to determine the minimum wire size required in an extension cord.

Use only three wire extension cords which have three-prong grounding-type plugs and three-pole receptacles which accept the tool's plug. Replace or repair damaged cords.

Ampere rating (on nameplate)	0 to 2.0	2.10 to 3.4	3.5 to 5.0	5.10 to 7.0	7.10 to 12.0	12.1 to 16.0
Ext. Cable length	Wire Size (A.W.G.)					
25 ft.	18	18	18	18	16	14
50 ft.	18	18	18	16	14	12
75 ft.	18	18	16	14	12	10
100 ft.	18	16	14	12	10	—
150 ft.	16	14	12	12	—	—
200 ft.	16	14	12	10	—	—

MOTOR

Your Black and Decker tool is powered by a B&D-built motor. Be sure your power supply agrees with voltage marked on nameplate. **Volts 50/60 Hz** means **Alternating Current ONLY**. **VOLTS DC-60 Hz** means it will also operate on **Direct Current**. Voltage variation of more than 10% will cause loss of power and over-heating. All B&D tools are factory-tested; if this tool does not operate, check the power supply.

INSERTING BIT SHANKS

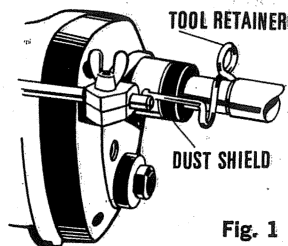


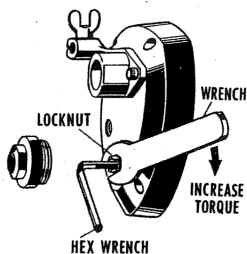
Fig. 1

Insert tool bit (or taper adaptor) into nose piece until the tool retainer groove in the bit (or taper adaptor) is in a position where it can be engaged with the Tool Retainer. If using a chuck wrench, insert shank of wrench into nose piece until shoulder of wrench is approx. 5/16" from the nose piece. Next, swing Tool Retainer back into place so that it engages the groove of the tool bit or adaptor.

CLUTCH

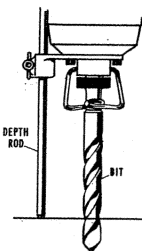
This tool has a built-in slip clutch to increase operator safety. If adjustment is required, follow procedure below:

1. Remove cap with $\frac{7}{8}$ " open end wrench or adjustable wrench.
2. Place Hex wrench in end of armature and hold stationary.
3. Tighten clutch (increase torque) by turning locknut clockwise with $\frac{1}{2}$ " wrench or adjustable wrench. Loosen clutch (decrease torque) by turning locknut counterclockwise.
4. Replace cap and tighten.



DEPTH ROD

Set depth rod to control hole depth if desired. To set Depth Rod, loosen Wing Screw and move rod to a position such that the bit projects beyond the rod tip, a distance equal to the desired hole depth. Tighten wing screw.



OPERATION

Type of shank on hammer tools, bits, chuck heads, and chuck wrenches will determine the type of operation performed by the hammer. Round shanks inserted directly into the hammer will result in hammering action without rotation; hex shanks will result in hammering action with rotation.

When using Hammer Tools: Grasp switch handle with one hand, and the side handle with the other hand. Place hammer in operating position and depress trigger. (Fig. 2 & 4)

When using Star Drills: Grasp hammer switch handle with one hand, and Turning Handle with the other hand. Place hammer in operating position, and depress trigger. Turning Handle should be swung in a 180° arc about 30 times per minute to prevent binding and to remove cuttings. (Fig. 3)

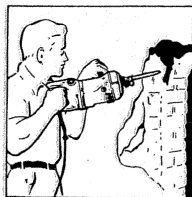


Fig. 2
Using Bull Point

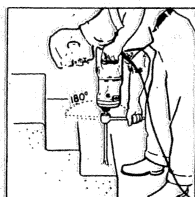


Fig. 3
Using Star Drill

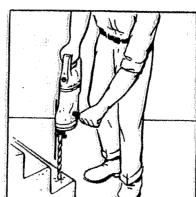


Fig. 4
Using Carbide Bits

DRILLING (ROTARY)

When drilling, use just enough force on the hammer to keep it from bouncing excessively or "rising" off of the bit. Too much force will cause slower speeds, overheating and a lower drilling rate. Too little force will cause "bouncing" and wear on driving member.

Always use the side handle when drilling. The hammer may be controlled or guided easily if the side handle is placed against the operator's leg. This position also keeps the hammer from jerking suddenly if the bit grabs in the hole. Tighten side handle with a pipe wrench to prevent loosening.

When drilling overhead, place rubber Dust Shield on bit shoulder as shown (Fig. 1), to prevent excess dust from entering the hammer nose.

Chuck Wrenches Nos. 52599 or 51568 are used, respectively, with "A" or "B" taper on Star Drill shanks.

DEMOLITION (NON-ROTARY)

When using non-rotary tools such as bull-points, chisels, tools, etc., side handle may be removed if preferred. Body or underside of hammer front end may be held but care must be taken to avoid rotating parts at hammer nose.

SOME HELPFUL TIPS

While drilling, do not exert side pressure on bit as this causes bit to bind in hole and a much slower drilling speed results.

Do not pour water into the hole to settle dust. Water may cause bit failure due to thermal shock. Water also causes clogging of bit flutes which will make the bit jam in the hole.

When drilling deep holes pull the bit partially out of the hole, while unit is running, to help clear material if the hammer speed starts to drop off.

CARBIDE BIT SHARPENING SERVICE

Keep your Carbide Bits sharp at all times. See your B&D Distributor or B&D Service Center (addresses are listed below). Service is prompt and charges are modest. Sharp bits save time and money!

ACCESSORIES

Recommended accessories for your Hammer are listed on the card in the lid of your Hammer Carrying Case. **CAUTION:** The use of any other accessory or attachment might be hazardous.

HAMMER SUPPLIES

SPECIAL HAMMER LUBRICATING OIL

No. 51314, 4 oz. Can No. 51315, 16 oz. Can

GEAR GREASE

No. 60541. 1 lb. Can.

DUST SHIELD—For overhead drilling, to keep dust out of nose piece. No. 57570.

DRIFT KEY—To remove tapered shank bits from taper adaptor or chuck head. No. 7276.

TOOL RETAINING SPRING—No. 63095

CHUCK ADAPTOR SHANK—No. 50800

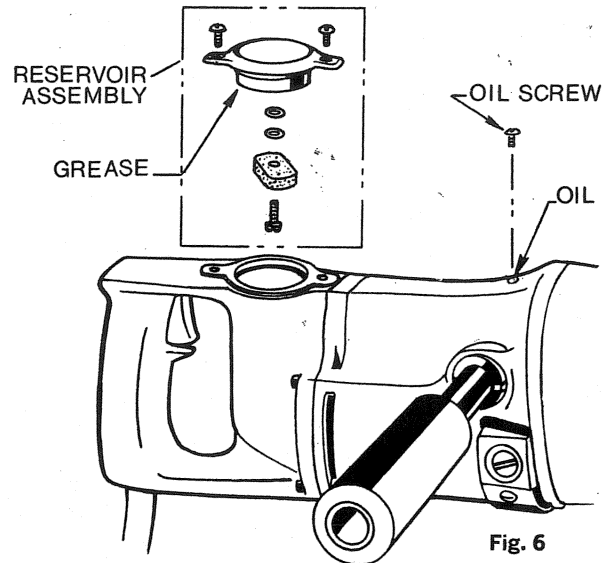
EXPANSION SHIELDS

The Rotary Hammer provides you with the most rapid method of installing expansion shields (including self-drilling type), masonry plugs, and anchors. For complete details on correct method of installation, see your local B&D distributor.

MAINTENANCE & LUBRICATION

Your Hammer has a maintenance feature called the "B&D Check Point System" which will automatically shut down the tool when brush replacement is required. When this happens, it is recommended that you return the tool to a B&D Service Center for inspection and maintenance. However, if the shut down occurs at an inconvenient time, the tool may be temporarily restored to operation by removing the brush caps and replacing the motor brushes. (**CAUTION:** Be sure tool is unplugged). As soon as convenient, take the tool to a B&D Service Center.

After 200 hours on the job, or after 2 months of normal usage, take your tool to a B&D Service Center for cleaning, regreasing and any other required maintenance. Under severe conditions, such as heavy dust or continuous operation, check and lubricate more frequently as described below.



1. Remove Oil Screw and fill cavity with B&D Hammer Oil. Replace screw and tighten (Figure 6).
2. Remove Grease Reservoir and disassemble as shown in Figure 6. Fill with B&D Grease, squeezing out any excess so that no part of the felt extends above the head of the screw.

IMPORTANT!

To assure product **SAFETY** and **RELIABILITY**, repairs, maintenance and adjustment should be performed by **BLACK & DECKER** Service Centers or other qualified service organizations, always using **BLACK & DECKER** replacement parts.

IMPORTANT!

COMMERCIAL/INDUSTRIAL USE WARRANTY

Black & Decker warrants this product for one year from date of purchase. We will repair without charge, any defects due to faulty material or workmanship. Please return the complete unit, transportation prepaid, to any Black & Decker Service Center or Authorized Service Station listed under "Tools Electric" in the yellow pages. This warranty does not apply to accessories or damage caused where repairs have been made or attempted by others.

THE BLACK AND DECKER MFG. CO. — TOWSON, MARYLAND 21204, U.S.A.