

ACCESSORIES

Recommended accessories for use with your Drill are listed below and in Black & Decker catalogs. (CAUTION: The use of any other accessory might be hazardous). All types of Bits, Hole Saws, Screw Driving Attachments, Rotary Files & Rasps, Angle Heads, Sanding & Polishing Accessories, etc. are available from your B&D Distributor. For help and advice on any application, write Cordless Product Manager at Black & Decker.

For safety in use, the following accessories should be used only in the sizes specified below:

- BITS, METAL DRILLING — UP to 3/8"
- BITS, MASONRY DRILLING — UP to 3/8"
- BITS, WOOD DRILLING — UP to 3/4"
- HOLE SAWS — UP to 1"
- WIRE BRUSHES — UP to 3" diam.

We strongly recommend that your first purchase be the No. U-2106 Safety Glasses which should be worn when using all drill accessories.

CLEANING & LUBRICATION

Use only mild soap and a damp cloth to clean the tool. Many household cleaners contain chemicals which could seriously damage the plastic. Also, do not use gasoline, turpentine, lacquer or paint thinner, dry cleaning fluids or similar products. Never let any liquid get inside the tool; never immerse any part of the tool into a liquid. Self lubricating bearings are used in the tool and periodic relubrication is not required. However, it is recommended that, once a year, you take or send the tool to a B&D Service Center for a thorough cleaning, inspection and lubrication of the gear case.

STORAGE

1. The best storage place is one that is cool and dry — away from direct sunlight, heating pipes and ducts, furnaces, etc.
2. Best storage temperature is approximately +50°F. Do not store where temperatures may go below +40°F or above +120°F. Avoid storage in outside metal buildings where the temperature could go above +120°F. In summer, as this could damage the power pack.
3. Long storage will not harm the Drill, or Charger. Under the proper conditions (given above) they can be stored for 5 years or more without harm.

IMPORTANT

To assure product SAFETY and RELIABILITY, repairs, maintenance and adjustment, (including brush inspection and replacement) should be performed by Black & Decker Service Centers or other qualified service organizations, always using Black & Decker replacement parts. Battery replacement should be accomplished at B&D Service Centers, using only identical replacement batteries.

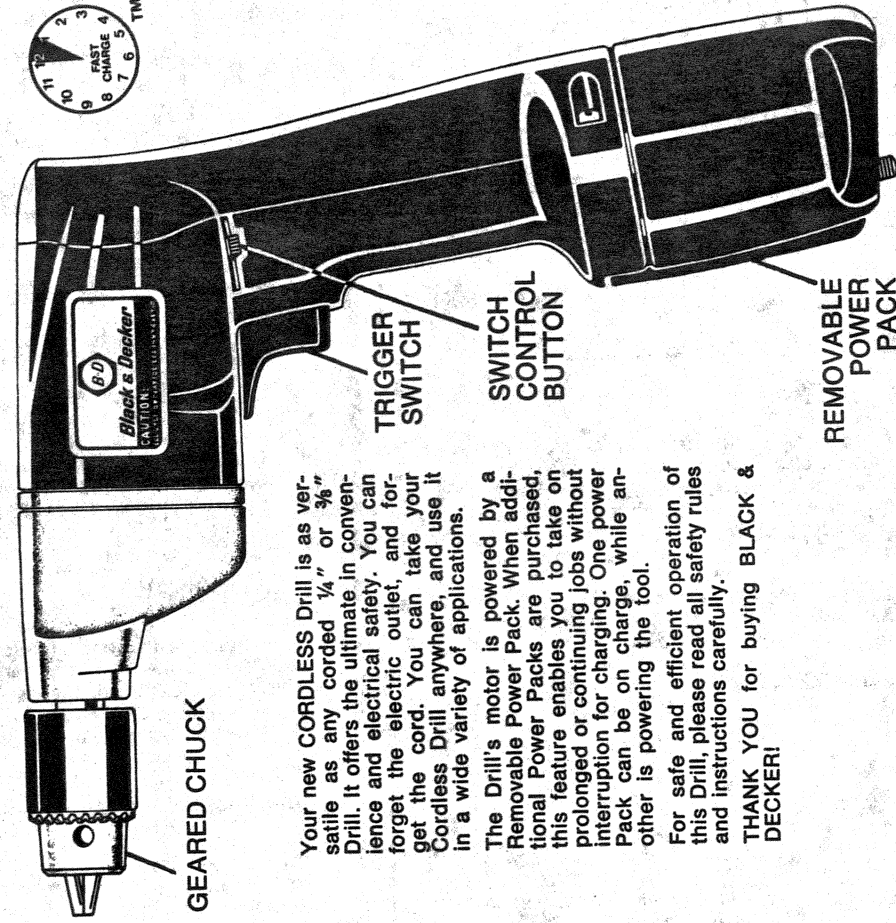
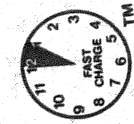
COMMERCIAL / INDUSTRIAL USE WARRANTY

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.

BLACK & DECKER (U.S.) INC., TOWSON, MARYLAND 21204, U.S.A.

Form No. 722467-02

Printed in U.S.A.



Your new CORDLESS Drill is as versatile as any corded 1/4" or 3/8" Drill. It offers the ultimate in convenience and electrical safety. You can forget the electric outlet, and get the cord. You can take your Cordless Drill anywhere, and use it in a wide variety of applications.

The Drill's motor is powered by a Removable Power Pack. When additional Power Packs are purchased, this feature enables you to take on prolonged or continuing jobs without interruption for charging. One power pack can be on charge, while another is powering the tool.

For safe and efficient operation of this Drill, please read all safety rules and instructions carefully.

THANK YOU for buying BLACK & DECKER!

No. 1941 3/8" Cordless, Reversible Drill with Charger

SAFETY RULES

SAFETY RULES FOR POWER TOOLS

1. **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
2. **KEEP CHILDREN AWAY.** All visitors should be kept safe distance from work area.
3. **STORE IDLE TOOLS.** When not in use, tools should be stored in dry, high or locked-up place — out of reach of children.
4. **DON'T FORCE TOOL.** It will do the job better and safer at the rate for which it was designed.
5. **USE RIGHT TOOL.** Don't force small tool or attachment to do the job of a heavy duty tool.
6. **WEAR PROPER APPAREL.** No loose clothing or jewelry to get caught in moving parts. Rubber gloves and footwear are recommended when working outdoors.
7. **USE SAFETY GLASSES** with most tools. Also face or dust mask if cutting operation is dusty.
8. **SECURE WORK.** Use clamps or a vise to hold work. It's safer than using your hand and it frees both hands to operate tool.
9. **DON'T OVERREACH.** Keep proper footing and balance at all times.
10. **MAINTAIN TOOLS WITH CARE.** Keep tools sharp at all times and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
11. **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
12. **AVOID ACCIDENTAL STARTING.** Don't carry tool with finger on switch.
13. **DO NOT OPERATE** portable electric tools in gaseous or explosive atmospheres. Motors in these tools normally spark, and the sparks might ignite fumes.

ADDITIONAL DRILL SAFETY RULES

1. Be aware that this tool is always in an operating condition, because it does not have to be plugged into an electrical outlet.
2. When drilling into walls, floors or whatever "live" electrical wires may be encountered, DO NOT TOUCH THE CHUCK OR ANY FRONT METAL PARTS OF THE DRILL! Hold the Drill only by the plastic handle to prevent electric shock if you drill into a "live" wire.

CHARGER & POWER PACK SAFETY RULES

1. The Charger and Power Pack are specifically designed to work together. DO NOT attempt to charge any other cordless tool or battery pack with this Charger. DO NOT attempt to charge the Power Pack with any other Charger.
2. NEVER attempt to connect 2 Chargers together.
3. Do not attempt to open the Power Pack housing.
4. DO NOT store the Drill and Power Pack in locations where the temperature may reach or exceed 120°F (such as outside sheds or metal buildings in summer).
5. DO NOT charge Power Pack when temperature is BELOW +40°F or ABOVE +105°. This is very important.
6. DO NOT incinerate the Power Pack even if it is severely damaged or is completely worn out. The power pack can explode in a fire.
7. A small leakage of liquid from the power pack cells may occur under extreme usage or temperature conditions. This does not indicate a failure. However, if the outer case seal is broken and this leakage gets on your skin —
 - (a) Wash quickly with soap and water.
 - (b) Neutralize with a mild acid such as lemon juice or vinegar.
 - (c) If battery liquid gets into your eyes, flush them with clear water for a minimum of 10 minutes and seek immediate medical attention. (Medical note: The liquid is a 25-35% solution of potassium hydroxide.)
8. Avoid dangerous environment. Don't use charger in damp or wet locations.
9. The charger is designed to operate on standard household electrical power (120 volts). Do not attempt to use it on any other voltage!
10. Don't abuse cord. Never carry charger by cord or yank it to disconnect from tool. Keep cord from heat, oil and sharp edges.

CHARGING THE POWER PACK

THE BATTERIES IN YOUR NEW POWER PACK ARE NOT FULLY CHARGED! First read the Safety Rules above. Then follow charging notes and procedures on page 3.

CHARGING THE POWER PACK

IMPORTANT CHARGING NOTES

- Longest life and best performance can be obtained if the batteries are charged when the air temperature is about +75°F. DO NOT charge the batteries in an air temperature below +40°F or above +105°F. This is important and will prevent serious damage to the batteries.
- When you charge your power pack for the first time, or after prolonged storage, it will only accept about an 80% charge. However, after several charge and discharge cycles, the batteries will be up to full capacity.
- While charging, the Charger may hum and become warm to touch. This is a normal condition, and does not indicate a problem.
- If the batteries do not charge properly — (1) Check current at receptacle by plugging in a lamp or other appliance, (2) Check to see if receptacle is connected to a light switch which turns power off when you turn out the lights. (3) Move charger and power pack to a surrounding air temperature of approximately 75° F. In an extremely warm environment, the power pack may be too hot to permit fast charging. (4) If the receptacle and temperature are o.k., and you do not get proper charging, take or send the tool and charger to your local service center. See "TOOLS, ELECTRIC" in yellow pages.
- The power pack should be recharged when it fails to produce sufficient power on jobs which were easily done previously. DO NOT CONTINUE to use under these conditions. Repeat the charging procedure.
- If, after repeated use, your power pack does not take a full charge, and produces operating time less than normal, it may not be caused by faulty batteries. If you use the power pack repeatedly for only a few minutes and then charge it, the batteries build up a resistance to taking a full charge. This resistance results in reduced operating time.
The batteries can be restored to their original power and life by fully charging and then completely using up the charge several times. This will recondition the batteries to deliver maximum performance.



FOR REPLACEMENT OR FOR ADDITIONAL POWER PACKS OR CHARGERS, ORDER:

- No. 98003 Power Pack (1-hr. charge)
- No. 98010 Charger (1-hr. charge)

CHARGING PROCEDURE

- Move Switch Control Button to the center of its slot to LOCK Trigger Switch "OFF" (Figure 1).
- Remove Power Pack from Tool Handle by first pressing Release Button (Figure 2). The Latch will spring open and allow Power Pack to be withdrawn from handle (Figure 3).
- Place the Power Pack in the Charger as shown in Figure 4. Note that groove in Power Pack faces front. Plug in Charger.
- Press button momentarily until light turns "ON". Your Power Pack is now on charge.
- In about an hour the light will turn "OFF". Charging is now complete and your Power Pack is ready for use.
- When charging is completed, unplug Charger, lift Power Pack from Charger and insert Power Pack into tool handle. Press latch over end of Power Pack until it snaps into the locked position.

NOTE: If the Power Pack has become warm in use, and is placed in the charger still warm, the light will not go on and charging will not begin immediately when the button is pressed. However, after you press the button you can leave the charger. As the Power Pack cools down, the light will turn on and charging will begin automatically. ALSO SEE INSTRUCTIONS FOR NO. 98010/91-005 FAST CHARGER PACKED WITH UNIT.

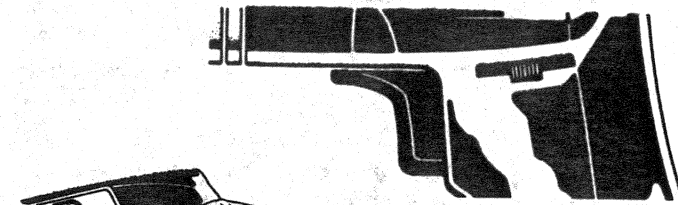


FIGURE 1

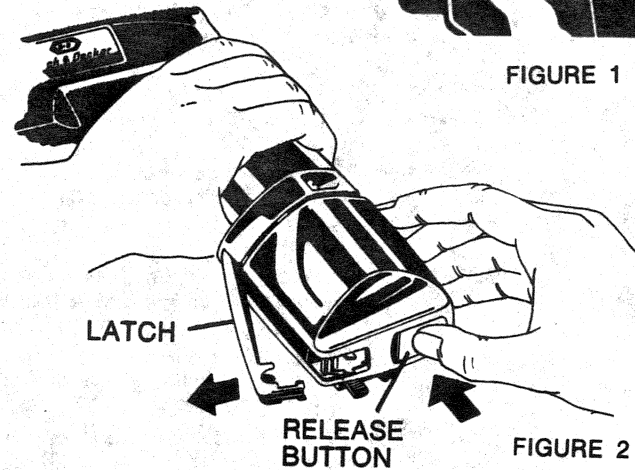


FIGURE 2

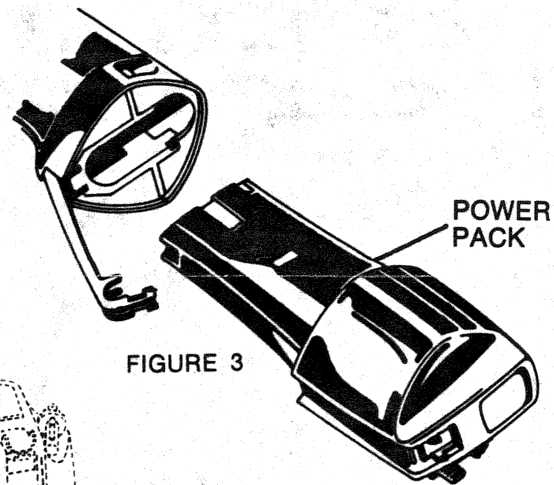


FIGURE 3

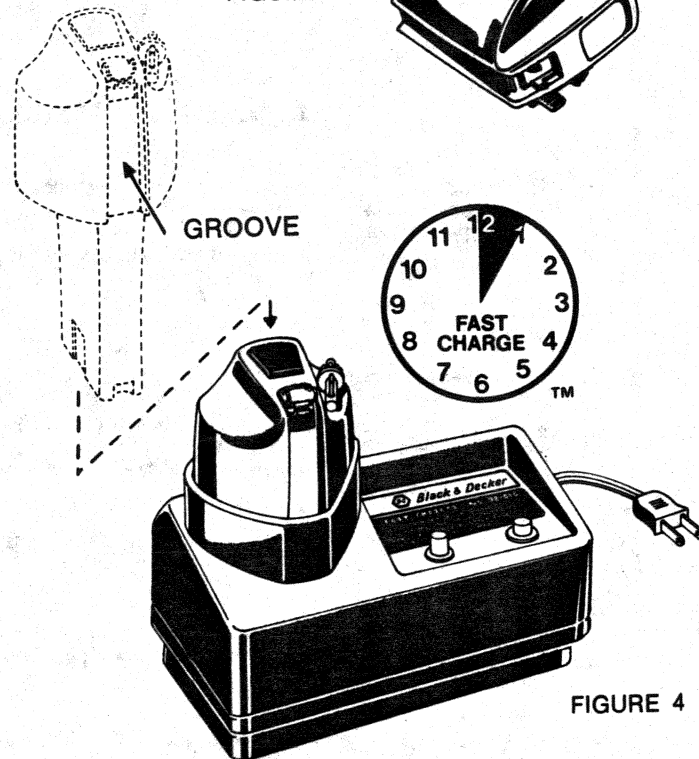


FIGURE 4

OPERATION

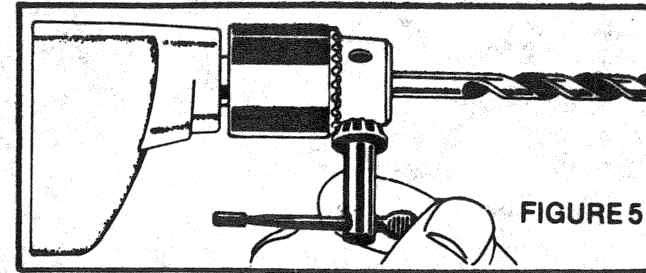


FIGURE 5

CHUCK & KEY

Turn chuck collar to open chuck jaws. Place bit in chuck as far as it will go. Tighten chuck collar by hand. Place chuck key in each of the three holes, and tighten in clockwise direction (Figure 5). It's important to tighten chuck with all three holes to prevent bit slippage. To release bit, turn chuck key counterclockwise in just one hole, then loosen chuck by hand.

When not in use, the chuck key can be stored in the end of the power pack. To remove the key, place thumb as shown in Figure 6 and push key firmly upward out of its holding socket. To replace key, push key's handle firmly and completely down into the socket (Figure 6).

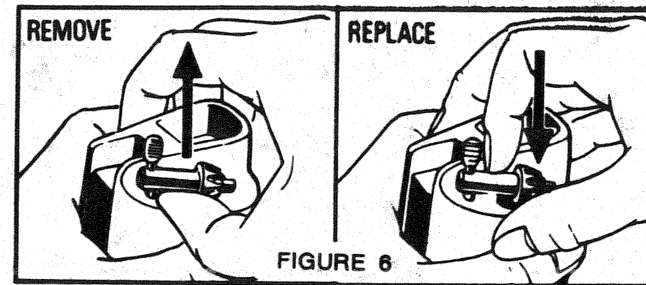


FIGURE 6

TRIGGER SWITCH & CONTROL BUTTON

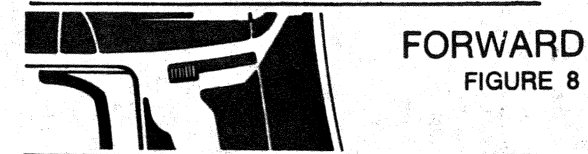
The Drill is turned "ON" and "OFF" by pulling and releasing the Trigger Switch. However, the Trigger can be locked "OFF" by positioning the Switch Control Button in the center of its slot (Figure 7). This position should be used to prevent the Trigger from being accidentally pressed when the tool is not in use, when attaching or removing the Power Pack, when attaching or changing accessories, and when cleaning or servicing the Drill.

For normal use, the Switch Control Button should be in the FORWARD position (Figure 8).

Use the REVERSE position (Figure 9) for smoothly withdrawing bits that bind in the hole. When moving from FORWARD to REVERSE, or vice versa, always release the trigger first as the control button will not move when the trigger is depressed. Move the control button to FORWARD before starting to drill again.



LOCK-"OFF"
FIGURE 7



FORWARD
FIGURE 8



REVERSE
FIGURE 9

DRILLING (Figure 10)

- Lock Trigger Switch "OFF" with switch control button when attaching or changing bits or accessories.
- Use sharp drill bits only. For WOOD, use twist drill bits, spade bits, power auger bits, or hole saws. For METAL, use high-speed steel twist drill bits. For MASONRY, such as brick, cement, cinder block, etc., use carbide-tipped bits.
- Be sure the material to be drilled is anchored or clamped firmly. If drilling thin material, use a wood "back-up" block to prevent damage to material.
- Center-punch an indentation at the point to be drilled. This will overcome tendency of bit to slip around on a smooth surface. Place the tip of bit in indentation and turn motor "ON."
- Always apply pressure in a straight line with the bit. Use enough pressure to keep drill biting, but do not push hard enough to stall motor or deflect bit. To minimize stalling on breaking through the material, reduce pressure on drill and ease the bit through last part of hole.
- Hold drill firmly to control the twisting action of the drill.

DRILLING IN WOOD

Holes in wood can be made with the same twist drill bits used for metal or with wood augers. These bits should be sharp and should be pulled out frequently when drilling to clear chips from the flutes. Work that is apt to splinter should be backed up with a block of wood. Let up on the pressure just before the tip cuts through, this will give a good clean hole.

DRILLING IN METAL

Use a cutting lubricant when drilling ferrous metals. The exceptions are iron and brass which should be drilled dry. The cutting lubricants that work best are sulphurized cutting oil or lard oil; bacon grease will also serve the purpose. Aluminum is best drilled with turpentine or kerosene.

LEATHER HOLSTER

To add even more to the convenience features of your Cordless Drill, an accessory Leather Holster is available. This Holster fastens to your belt and keeps the Drill handy and ready for work. It also frees both hands when you are not actually using the tool. Order:

Cat. No. 98-004/91-012 Leather Holster (Figure 11)

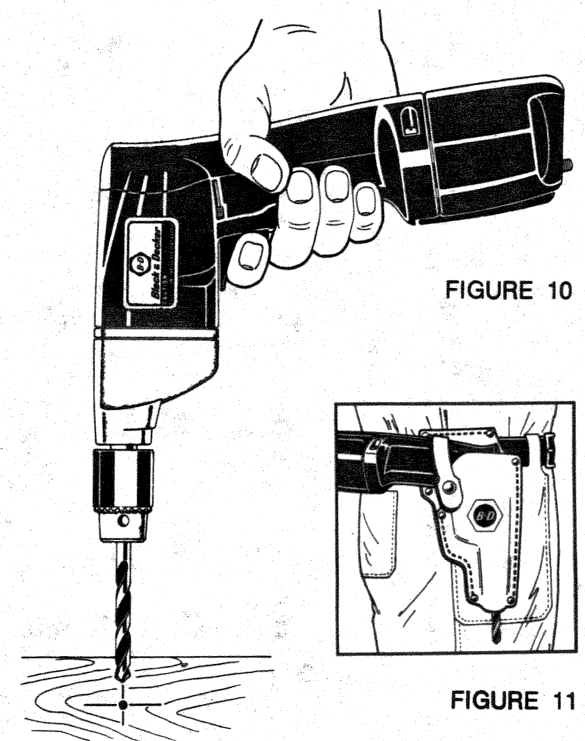


FIGURE 10

FIGURE 11