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Instruction manual

Two-Speed Cordless Hammer Drill/Drivers

MODELS
8604 and 8624
Chargers



MODEL 887
Hammer Drill/Driver
MODEL 8823
Battery Pack

MODEL 877
Hammer Drill/Driver
MODEL 8723
Battery Pack

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<http://www.porter-cable.com>



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IMPORTANT

Please make certain that the person who is to use this equipment carefully reads and understands these instructions before starting operations.

The Model and Serial No. plate is located on the main housing of the tool. Record these numbers in the spaces below and retain for future reference.

Model No. _____

Type _____


Serial No. _____

Part No. 900470-0011

GENERAL SAFETY RULES FOR ALL BATTERY OPERATED TOOLS

WARNING! READ AND UNDERSTAND ALL INSTRUCTIONS.

Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

 **WARNING: SOME DUST CREATED BY POWER SANDING, SAWING, GRINDING, DRILLING, AND OTHER CONSTRUCTION ACTIVITIES** contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

SAVE THESE INSTRUCTIONS.

WORK AREA

- 1. Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- 2. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust or fumes.
- 3. Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

- 1. Do not abuse the cord. Never use the cord to carry the tool. Keep cord away from heat, oil, sharp edges, or moving parts. Replace damaged cords immediately.** Damaged cords may create a fire.
- 2. A battery operated tool with integral batteries or a separate battery pack must be recharged only with the specified charger for the battery.** A charger that may be suitable for one type of battery may create a risk of fire when used with another battery.
- 3. Use battery operated tool only with specifically designated battery pack.** Use of any other batteries may create a risk of fire.

PERSONAL SAFETY

- 1. Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- 2. Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing, and gloves away from moving parts.** Loose clothes, jewelry, or long hair can be caught in moving parts.

- 3. Avoid accidental starting. Be sure switch is in the locked or off position before inserting battery pack.** Carrying tools with your finger on the switch or inserting the battery pack into a tool with the switch on invites accidents.
- 4. Remove adjusting keys or wrenches before turning the tool on.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
- 5. Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enable better control of the tool in unexpected situations.
- 6. Use safety equipment. Always wear eye protection.** Dust mask, non-skid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

TOOL USE AND CARE

- 1. Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
- 2. Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at the rate for which it is designed.
- 3. Do not use tool if switch does not turn it on or off.** A tool that cannot be controlled with the switch is dangerous and must be repaired.
- 4. Disconnect battery pack from tool or place the switch in the locked or OFF position before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
- 5. Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- 6. When battery pack is not in use, keep it away from other metal objects like: paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another.** Shorting the battery terminals together may cause sparks, burns, or a fire.
- 7. Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools with sharp cutting edge are less likely to bind and are easier to control.
- 8. Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
- 9. Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool may create a risk of injury when used on another tool.

SERVICE

- 1. Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel may result in a risk of injury.
- 2. When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance Section of this manual.** Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of shock or injury.

SPECIFIC SAFETY RULES AND SYMBOLS

1. Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring. Contact with a “live” wire will also make exposed metal parts of the tool “live” and shock the operator.

2. There are certain applications for which this tool was designed. Porter-Cable strongly recommends that this tool NOT be modified and/or used for any application other than for which it was designed. If you have any questions relative to its application DO NOT use the tool until you have written Porter-Cable and we have advised you.

Technical Service Manager
 Porter-Cable Corporation
 4825 Highway 45 North
 Jackson, TN 38305

3. Be aware that this tool is always in an operating condition, because it does not have to be plugged into an electrical outlet. Always set the trigger switch to the locked OFF position when installing or removing the battery pack or drill bits.

4. Do not use bits larger than those recommended (see Maximum Capacities Chart). Large bits may overload the drill and damage the motor and gears.

5. Do not use if chuck jaws or other parts are cracked or worn.

6. Verify the drill’s rotation before starting the drill so it is correct for the operation being performed.

7. Never change direction of rotation until motor has completely stopped.

8. Never hold work in your hand, lap, or against other parts of your body when drilling.

9. Do not use drill as a router or try to elongate or enlarge holes by twisting the drill. Drill bits may break and cause injury.

10. Keep hands away from rotating parts.

11. Keep drill bit clear of yourself and all objects while installing and removing bits (see INSTALLING AND REMOVING BITS).

12. Some wood contains preservatives which can be toxic. Take extra care to prevent inhalation and skin contact when working with these materials. Request, and follow, all safety information available from your material supplier.

SYMBOL	DEFINITION
V	volts
— — —	direct current
n_0	no load speed
.../min	revolutions or reciprocation per minute

SAFETY INSTRUCTIONS FOR CHARGER AND BATTERIES

1. Save these instructions. This manual contains important safety and operating instructions for tool batteries and battery chargers.

2. Before using a battery charger, read all instructions and cautionary markings on (1) battery charger, (2) battery pack, and (3) product using battery.

3. CAUTION: To reduce risk of injury, Porter-Cable charger Model 8604 should only be used to charge Porter-Cable battery pack Model 8723 and Porter-Cable charger Model 8624 should only be used to charge Porter-Cable battery pack Model 8823. Other types of batteries may burst causing personal injury and damage. Do not charge Porter-Cable Models 8723 and 8823 battery packs with any other chargers.

4. Do not expose charger to rain, snow or frost.

5. Do not abuse cord. Never carry charger by cord or yank it to disconnect from receptacle. Pull by plug rather than cord when disconnecting charger. Have damaged or worn power cord and strain reliever replaced immediately. **DO NOT ATTEMPT TO REPAIR POWER CORD.**

6. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.

7. Do not use an extension cord unless absolutely necessary. Use of improper extension cord could result in a risk of fire and electric shock. If an extension cord must be used, make sure:

A. That the pins on plug of extension cord are the same number, size and shape as those of plug on charger.

B. That the extension cord is properly wired and in good electrical condition.

C. Wire Size of cord is at least as specified in following chart:

LENGTH OF CORD IN FEET	25	50	100	150
AWG SIZE OF CORD	18	18	18	16

D. If an extension cord is to be used outdoors it must be marked with the suffix W-A following the cord type designation. For example – SJTW-A to indicate it is acceptable for outdoor use.

8. Do not operate charger with damaged cord or plug – have them replaced immediately, to avoid a hazard. **DO NOT ATTEMPT TO REPAIR POWER CORD.**

9. Do not operate charger if it has received a sharp blow, been dropped, or otherwise damaged in any way; take it to a qualified serviceman.

10. Do not disassemble charger or battery pack. Take it to a qualified serviceman when service or repair is required. Incorrect reassembly may result in a risk of electric shock or fire.

11. Unplug charger from outlet before attempting any maintenance or cleaning – to reduce risk of electric shock.

12. Charge the battery pack in a well ventilated place, do not cover the charger and battery pack with a cloth, etc., while charging.

13. Do not store the charger or battery pack in locations where the temperature may reach or exceed 122°F (such as a metal tool shed, or a car in the summer), which can lead to deterioration of the storage battery.

14. Do not charge battery pack when the temperature is BELOW 32°F or ABOVE 104°F. This is very important for proper operation.

15. Do not incinerate battery pack. It can explode in a fire.

16. Do not charge battery in damp or wet locations.

17. Do not attempt to charge any other cordless tool or battery pack with the Porter-Cable Model 8604 or 8624 chargers.

18. Do not short across the terminals of the battery pack: **EXTREMELY HIGH TEMPERATURES COULD CAUSE PERSONAL INJURY OR FIRE.**

19. Dispose of expended batteries properly. The Porter-Cable Models 8723 and 8823 Battery Packs contain rechargeable nickel-cadmium batteries. These batteries must be recycled or disposed of properly. Drop off expended battery packs at your local replacement battery retailer, your local recycling center, or at a Porter-Cable Service Center (see list on back page of this manual). Applicable fees for the collection and recycling of these batteries (in the United States), have been paid to the RBRC™. For further information, call: 1-800-8-BATTERY.



RBRC™ is a Trademark of the Rechargeable Battery Recycling Corporation.

ADDITIONAL SAFETY RULES FOR HAMMER-DRILLS

1. **Apply forward force only** on pistol grip handle and **ONLY** with your hands when drilling.
2. **Do not** use bits larger than those recommended. They may cause personal injury due to jamming and loss of control. Large bits may also overload the drill and damage the motor and gears.
3. **Verify** that the mode selecting ring, the speed selector, and the reversing switch are in correct positions for the operation being performed.
4. **Use only** percussion-type carbide-tipped bits when hammer-drilling.
5. **Always wear** ear protectors and safety glasses when hammer-drilling.
6. **Do not** attempt to cut through reinforcing rods with percussion-type bits.
7. **Should** the drill bit become jammed in the work, release switch trigger immediately to prevent personal injury. Remove the battery from the tool and remove the drill bit from the work. Do not attempt to free the stalled bit by starting and stopping the motor. This could result in bodily injury.

FUNCTIONAL DESCRIPTION

FOREWORD

Your Porter-Cable Cordless Hammer Drill/Driver is designed to drill holes and drive fasteners in various materials as indicated in the following chart:

SPEED RANGE	MAXIMUM CAPACITIES			DRIVING
	DRILLING			
	MILD STEEL	ALUMINUM	WOOD SELF-FEED BIT	WOOD SCREWS
LOW	3/8"	3/8"	1"	3/8"
HIGH	3/8"	3/8"	1/2"	#10

SWITCH OPERATION

Squeeze trigger switch (A) Fig. 1, to start motor. Release trigger to stop motor. As the trigger is squeezed the motor speed increases.

NOTE: A low volume, high pitched tone may be heard while the switch is in the variable speed mode. This is normal.

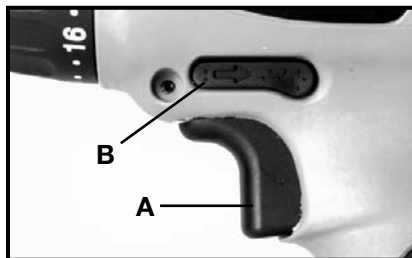


Fig. 1

FORWARD/REVERSE

- Make sure trigger switch (A) Fig. 1, is in OFF position before attempting to change direction of rotation.
- Push button (B) Fig. 1, toward left side of drill for FORWARD (clockwise) rotation.
- Push button (B) Fig. 1, toward right side of drill for REVERSE (counterclockwise) rotation.
- Place button (B) Fig. 1, in center position to lock trigger switch in OFF position.

ELECTRIC BRAKE

When the trigger switch is released, an electric brake automatically engages to stop spindle rotation.

INSTALLING AND REMOVING DRILL AND SCREWDRIVER BITS

1. **CAUTION:** Always set reversing button to center (locked OFF) position when installing and removing bits.
 2. The three-jaw chuck is designed for self-centering of the bit. Open jaws large enough by turning outer sleeve (A) Fig. 2, counterclockwise, when viewing the chuck from the bit end, so that bit shank can be inserted easily.
 3. Clean and insert smooth end of bit as far as it will go into the chuck, or up to the flutes for small bits.
 4. While holding the bit with one hand, turn outer sleeve (A) Fig. 2, clockwise until the bit is gripped in the chuck.
 5. Tighten chuck by holding chuck ring (B) Fig. 2, with one hand while turning outer sleeve (A) clockwise with other hand. Tighten securely.
- ⚠ WARNING:** Do not operate drill motor while installing or removing bits. Operating drill motor can cause bit to be thrown from chuck causing personal injury.
6. To remove bit, reverse foregoing procedure.

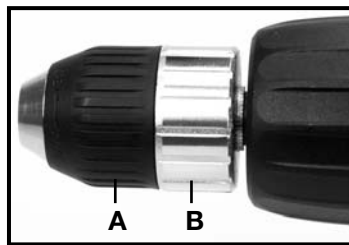


Fig. 2

ADJUSTING TORQUE COLLAR

The clutch unit provides twenty clutch settings, a “Drill” (solid lock-up) setting, and a hammer (impact) position. Lowest torque is available at setting #1, with maximum torque available at the “Drill” setting. The amount of output torque may be adjusted by rotating the front collar (A) Fig. 3, so that the desired torque setting is aligned with the index mark (B) Fig. 3. In general, lower torque settings are used for driving small screws and other delicate work, while higher torque settings are used for driving larger screws. The “Drill” position is used for drilling and for driving very large screws. The hammer position is used when “impacting” is needed to assist in the drilling operation such as when drilling in concrete, bricks, etc.

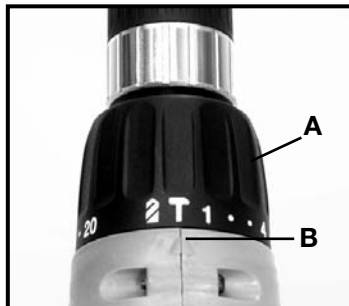


Fig. 3

TWO-SPEED GEAR SHIFT

The Models 877 and 887 Cordless Hammer Drill/Drivers have a two-speed gear shift which provides spindle speed ranges of approximately: 0 to 475 RPM (LOW) and 0 to 1450 RPM (HIGH) for Model 877; 0-500 RPM (LOW) and 0-1500 RPM (HIGH) for Model 887. To change speed ranges: release trigger switch to stop motor and then slide speed selector (A) Fig. 4, toward rear for HIGH speed or toward front for LOW speed.

The low speed position is normally used when drilling larger holes and when driving or removing screws. The high speed position is normally used for drilling small holes.

DRIVER BIT STORAGE

Convenient storage areas with retaining clip (B) Fig. 4, for screwdriver bits are provided on each side of the tool.

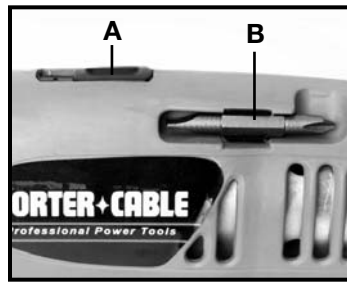


Fig. 4

OPERATION

CHARGING THE BATTERY PACK GENERAL

Before using your cordless tool for the first time, the battery pack should be fully charged. If the battery pack is installed in the tool, remove it by following instructions under INSTALLING OR REMOVING BATTERY PACK.

As a battery pack approaches the discharged state, you will notice a sharp drop in tool performance. When the tool is unable to perform the task at hand, it is time to recharge the battery pack. Recharging the battery pack before this condition is reached will reduce the total work life of the pack. Discharging the pack beyond this point can damage the pack.

NOTE: Battery temperature will increase during and shortly after use. Batteries may not accept a full charge if they are charged immediately after use. Allow the battery pack to cool to room temperature before charging for best results.

The battery charger may rest on the four pads provided on the bottom of the case or be mounted on a wall by utilizing the two key hole slots provided.

CAUTION: Vent slots in top and bottom of charger must not be obstructed. Do not charge battery when temperature is BELOW 32°F or ABOVE 104°F.

NORMAL CHARGING

Make sure power circuit voltage is the same as that shown on the charger specification plate. Connect charger to power source. The green light (A) Fig. 5, should begin to flash. This indicates the charger is ready to begin charging.

Position battery pack on charger, align rails (A) Fig. 6 on battery pack with four tabs (A) Fig. 5 on charger. Slide battery forward onto charger until it stops.

The green light (A) Fig. 5, should begin to glow continuously, indicating that the battery pack is receiving a "Fast Charge" (if the green light does not glow continuously, or if the red light (B) Fig. 5, also begins to flash: see DIAGNOSTICS). After approximately one hour, the "Fast Charge" indicator light should go out indicating that the battery pack is fully charged and that the charger is now in a "Trickle Charge" mode. The battery pack can be left on "Trickle Charge" until you are ready to use it.

Depending on room temperature, line voltage, and existing charge level, initial battery charging may take longer than one hour.

Disconnect charger from power source when not in use.

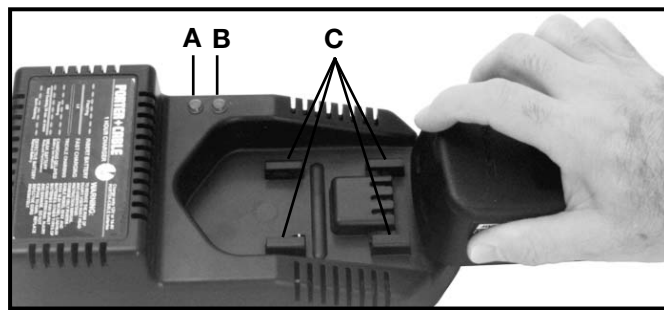


Fig. 5

DIAGNOSTICS

The Models 8604 and 8624 chargers are equipped with a diagnostic system that automatically checks the battery pack each time a pack is inserted into the charger. If no problems are found, the charger will automatically switch to "Fast Charge" mode as described in NORMAL CHARGING. If a problem is found, it will be indicated by the charger indicator lights (see Fig. 5), as follows:

- Green light (A) continues to flash after battery pack is inserted in charger: indicates that the battery pack temperature is either too high or too low for charging. If left alone, the charger will continue to monitor the battery pack temperature and will begin charging when the temperature reaches an acceptable level.
- Green light (A) glows continuously and red light (B) flashes: indicates that the battery pack is receiving a "Fast Charge", but the battery pack voltage is low. It is not unusual for a new, or a fully discharged battery pack to give this indication for the first several minutes of charge. If the red light continues to flash throughout the charge cycle, it indicates that the pack is weak and will provide reduced performance (the pack is still useable, but will not provide maximum power or work per charge). This battery pack will probably require replacement in the near future.
- Green light (A) continues to flash and red light (B) flashes: indicates that the battery pack has failed (pack is not chargeable and requires replacement).

INSTALLING OR REMOVING BATTERY PACK

TO REMOVE BATTERY PACK: Depress the battery release button (B) Fig. 6, and pull battery pack out of tool.

TO INSTALL BATTERY PACK: Align rails (A) Fig. 6, on battery pack with slots on tool and push battery pack onto tool until it locks in place.

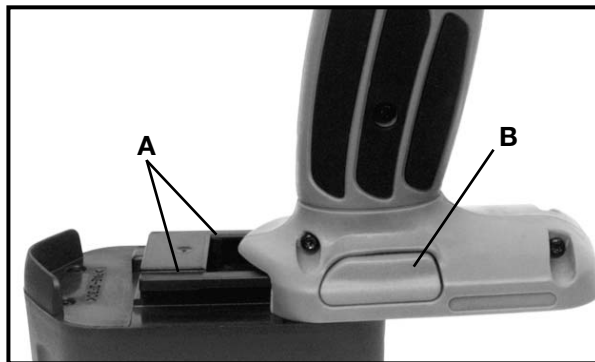


Fig. 6

HOW TO HOLD THE HAMMER DRILL/DRIVER

⚠ WARNING: The front end of the Hammer Drill/Driver may be made live if the tool drills into live wiring in the wall. TO PREVENT ELECTRICAL SHOCK, THE HAMMER DRILL/DRIVER MUST BE HELD AS SHOWN IN FIG. 7.

IT'S
A DRILL



Fig. 7

GENERAL DRILLING

1. Set torque adjusting collar for drilling operation and set speed selector to appropriate speed.
2. Be sure drill bit is securely gripped in chuck.
3. Set REVERSING BUTTON for clockwise rotation.
4. **CAUTION:** Make sure work is held securely in vise or clamped in place prior to starting drilling operation. Loose work may spin and cause bodily injury.
5. Locate exact center for hole to be drilled and using a center punch, make a small dent in work.
6. Place tip of drill bit in dent made by center punch, hold drill square with work, and start the motor.
7. **CAUTION:** Applying too much pressure may cause the bit to overheat or break resulting in bodily injury or damaged drill bits.

Apply steady, even pressure to keep drill bit cutting. Too little pressure will keep the bit from cutting and dull the cutting edges due to excessive friction created by sliding over the surface.

CAUTION: Always be alert and brace yourself against the twisting action of the drill.

8. If drill stalls or becomes jammed in the hole, release trigger immediately, remove drill bit from work and determine cause of stalling or jamming. DO NOT SQUEEZE TRIGGER ON AND OFF IN AN ATTEMPT TO FREE A STALLED OR JAMMED DRILL – THIS WILL DAMAGE THE MOTOR. The direction of rotation may be reversed to help free a jammed bit. Be sure direction of rotation is RESET before attempting to continue drilling.
9. Reduce the pressure on the drill just before the bit cuts through the work to avoid splintering wood or stalling in metal.
10. When bit has completely penetrated work and is spinning freely, withdraw it from the work while the motor is still running, then turn off drill.

DRILLING WOOD

In addition to the instructions listed under GENERAL DRILLING, the following also apply:

1. When using twist drills in wood, they should be withdrawn from the hole frequently to clear chips built up in flutes to avoid overheating and burning work.
2. If a backing block is used to keep back of work from splintering, it should be clamped securely in place. If a backing block is not used with spade bits or hole saws, ease up pressure as soon as bit point breaks through work, and complete the hole from the opposite side.

DRILLING METAL

In addition to the instructions listed under GENERAL DRILLING, the following also apply:

1. Use only good quality sharp high speed steel twist bits when drilling metal.
2. Start drilling with slow speed and gradually increase speed as drill cuts. The harder the material, the slower the speed required. The softer the material, the faster the speed.
3. When drilling a large hole, it is easier to first drill a smaller hole and then enlarge it to the required size.
4. The use of a lubricant, such as oil, on the drill point helps keep the bit cool, increases drilling action and prolongs drill bit life.

IT'S A
SCREWDRIVER

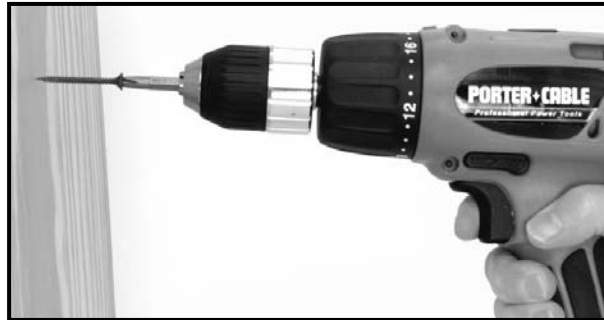
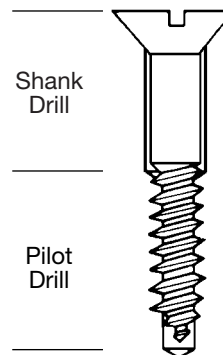


Fig. 8

DRIVING WOOD SCREWS

1. Drill pilot and shank clearance holes. See following chart.

SUGGESTED HOLE SIZES FOR WOOD SCREWS				
Screw Size	Shank Drill Clearance Diameter	Pilot Drill Diameter		
		Soft Wood	Hard Wood	
#6	$\frac{9}{64}$ (.140)	$\frac{1}{16}$ (.062)	$\frac{7}{64}$ (.109)	
#8	$\frac{11}{64}$ (.172)	$\frac{5}{64}$ (.078)	$\frac{1}{8}$ (.125)	
#10	$\frac{3}{16}$ (.187)	$\frac{3}{32}$ (.094)	$\frac{9}{64}$ (.140)	
#12	$\frac{7}{32}$ (.218)	$\frac{7}{64}$ (.109)	$\frac{5}{32}$ (.156)	



2. Install proper bit that fits screw to screwdriver.
3. Set torque adjusting collar for desired torque and set speed selector to LOW.
4. Set screwdriver for correct rotation.
5. Start screw straight in hole with fingers.
6. Place bit on screw, start screwdriver and exert pressure to drive screw.
7. As soon as screw has seated, lift screwdriver from screw.
8. A lubricant, such as soap or wax, may be used on screw threads for ease of driving. This is particularly important in hard wood.
9. Combination pilot drill, shank drill and countersink bits are available from local supply houses for drilling holes in one easy operation.

DRIVING SELF-TAPPING SCREWS

1. Drill pilot hole of correct size as recommended by screw manufacturer for fastener being used.
2. Install proper bit that fits screw to screwdriver.
3. Set torque adjusting collar for desired torque and set speed selector to LOW.
4. Set screwdriver for correct rotation.
5. Position bit in head of screw.
6. Place end of screw into pre-drilled hole, remove fingers, start screwdriver and drive screw.
7. As soon as screw has seated, lift screwdriver from screw.

DRIVING MACHINE SCREWS

1. Drill and tap correct hole size for fastener to be used.
2. Start screw in hole with fingers and drive as outlined under DRIVING WOOD SCREWS.

TO REMOVE SCREWS

1. Set torque adjusting collar for maximum torque and set speed selector to LOW.
2. Install proper bit that fits screw to screwdriver.
3. Set screwdriver for reverse rotation.
4. Place bit in screw and start drill to remove screw.

HAMMER-DRILLING

Drilling Concrete – Use carbide-tipped masonry bits only. Be sure drill is securely gripped in chuck and the mode selecting ring is in the “hammer” position, Fig. 3. Start drill by squeezing the trigger. Place tip of bit in contact with work and apply steady firm pressure.

Avoid allowing Hammer-Drill to bounce or “dance” under its own weight. This could result in damage to both the drill bit and the Hammer-Drill.

CAUTION: Extreme care should be taken in the event bit should become jammed in the hole so that drill can be stopped immediately. See ADDITIONAL SAFETY RULES FOR HAMMER DRILL/DRIVERS, Number 7.

MAINTENANCE

KEEP TOOL CLEAN

All plastic parts should be cleaned with a soft damp cloth. NEVER use solvents to clean plastic parts. They could very possibly dissolve or otherwise damage the material.

FAILURE TO START

Should your tool fail to start, make sure battery pack is charged and properly installed in drill.

BATTERY

The battery pack will discharge by itself without damage if stored for long periods of time, and may require recharging before use.

LUBRICATION

For your continued safety and electrical protection, lubrication and service on this tool should ONLY be performed by an AUTHORIZED PORTER-CABLE SERVICE STATION or a PORTER-CABLE SERVICE CENTER.

At approximately 100 hours of use, take or send your tool to your nearest Authorized Porter-Cable Service Station to be thoroughly cleaned and inspected; worn parts replaced, when necessary; relubricated with fresh lubricant, and performance tested.

CHUCK REPLACEMENT

1. **CAUTION:** Remove battery pack to prevent accidental start-up.
2. Open chuck jaws as wide as possible to gain access to the chuck retaining screw.
3. Remove chuck retaining screw by turning it clockwise (left-hand thread) with an allen wrench.
4. Place the two-speed gear shift selector to the rear (LOW) position.



Fig. 9



Fig. 10

5. Place the short end of a large allen wrench (1/4" or larger) into the chuck. Align wrench flats with chuck jaws and tighten chuck securely. While supporting chuck on a solid surface, position allen wrench to left (see Fig. 9) and strike wrench a sharp blow with a hammer to loosen chuck. Turn chuck counterclock-wise to remove.
6. Coat mounting face of the replacement chuck with anti-seize compound.
7. Thread chuck onto spindle by turning chuck clockwise. Hand tighten. Install allen wrench in chuck (see Step 5). While supporting chuck on a solid surface, position allen wrench to the right (see Fig. 10), and strike wrench a sharp blow with a hammer to seat chuck onto spindle.
8. Remove allen wrench from chuck.
9. Install chuck retaining screw.


SERVICE AND REPAIRS

All quality tools will eventually require servicing or replacement of parts due to wear from normal use. These operations, including brush inspection and replacement, should ONLY be performed by either an AUTHORIZED PORTER-CABLE SERVICE STATION or a PORTER-CABLE SERVICE CENTER. All repairs made by these agencies are fully guaranteed against defective material and workmanship. We cannot guarantee repairs made or attempted by anyone other than these agencies.

Should you have any questions about your tool, feel free to write us at any time. In any communications, please give all information shown on the nameplate of your tool (model number, type, serial number, etc.).

ACCESSORIES

The testing of this tool has been accomplished with the following accessories. For safest operation, it is recommended that only these accessories be used with this product.

 **WARNING:** Since accessories other than those listed have not been tested with this product, use of such accessories could be hazardous.

Select Accessories which are within the capacity of your Hammer Drill/Driver.

CARRYING CASE – **891260**

COMBINATION BIT – **895517**

1/4" HEX DRIVE BIT HOLDER - **44815**

SPARE BATTERY PACKS AND CHARGERS		
Model	Battery	Charger
877	8723	8604
887	8823	8624

NOTES

PORTER-CABLE LIMITED ONE YEAR WARRANTY

Porter-Cable warrants its Professional Power Tools for a period of one year from the date of original purchase. We will repair or replace at our option, any part or parts of the product and accessories covered under this warranty which, after examination, proves to be defective in workmanship or material during the warranty period. For repair or replacement return the complete tool or accessory, transportation prepaid, to your nearest Porter-Cable Service Center or Authorized Service Station. Proof of purchase may be required. This warranty does not apply to repair or replacement required due to misuse, abuse, normal wear and tear or repairs attempted or made by other than our Service Centers or Authorized Service Stations.

ANY IMPLIED WARRANTY, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, WILL LAST ONLY FOR ONE (1) YEAR FROM THE DATE OF PURCHASE.

To obtain information on warranty performance please write to: PORTER-CABLE CORPORATION, 4825 Highway 45 North, P.O. Box 2468, Jackson, Tennessee 38302-2468; Attention: Product Service. THE FOREGOING OBLIGATION IS PORTER-CABLE'S SOLE LIABILITY UNDER THIS OR ANY IMPLIED WARRANTY AND UNDER NO CIRCUMSTANCES SHALL PORTER-CABLE BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

This warranty gives you specific legal rights and you may also have other legal rights which vary from state to state.

PORTER-CABLE • DELTA SERVICE CENTERS (CENTROS DE SERVICIO DE PORTER-CABLE • DELTA) (CENTRE DE SERVICE PORTER-CABLE • DELTA)

**Parts and Repair Service for Porter-Cable • Delta Power Tools are Available at These Locations
(Obtenga Refaccion de Partes o Servicio para su Herramienta en los Siguietes Centros de Porter-Cable • Delta)
(Locations où vous trouverez les pièces de rechange nécessaires ainsi qu'un service d'entretien)**

ARIZONA Tempe 85282 (Phoenix) 2400 West Southern Avenue Suite 105 Phone: (602) 437-1200 Fax: (602) 437-2200 CALIFORNIA Ontario 91761 (Los Angeles) 3949A East Guasti Road Phone: (909) 390-5555 Fax: (909) 390-5554 San Leandro 94577 (Oakland) 3039 Teagarden Street Phone: (510) 357-9762 Fax: (510) 357-7939 COLORADO Denver 80216 5855 Stapleton Drive North Suite A-140 Phone: (303) 370-6909 Fax: (303) 370-6969 FLORIDA Davie 33314 (Miami) 4343 South State Rd. 7 (441) Unit #107 Phone: (954) 321-6635 Fax: (954) 321-6638 Tampa 33609 4538 W. Kennedy Boulevard Phone: (813) 877-9585 Fax: (813) 289-7948	GEORGIA Forest Park 30297 (Atlanta) 5442 Frontage Road, Suite 112 Phone: (404) 608-0006 Fax: (404) 608-1123 ILLINOIS Addison 60101 (Chicago) 311 Laura Drive Phone: (630) 628-6100 Fax: (630) 628-0023 Woodridge 60517 (Chicago) 2033 West 75th Street Phone: (630) 910-9200 Fax: (630) 910-0360 MARYLAND Elkridge 21075 (Baltimore) 7397-102 Washington Blvd. Phone: (410) 799-9394 Fax: (410) 799-9398 MASSACHUSETTS Braintree 02185 (Boston) 719 Granite Street Phone: (781) 848-9810 Fax: (781) 848-6759 Franklin 02038 (Boston) Franklin Industrial Park 101E Constitution Blvd. Phone: (508) 520-8802 Fax: (508) 528-8089 MICHIGAN Madison Heights 48071 (Detroit) 30475 Stephenson Highway Phone: (248) 597-5000 Fax: (248) 597-5004	MINNESOTA Minneapolis 55429 4315 68th Avenue North Phone: (612) 561-9080 Fax: (612) 561-0653 MISSOURI North Kansas City 64116 1141 Swift Avenue P.O. Box 12393 Phone: (816) 221-2070 Fax: (816) 221-2897 St. Louis 63119 7574 Watson Road Phone: (314) 968-8950 Fax: (314) 968-2790 NEW YORK Flushing 11365-1595 (N.Y.C.) 175-25 Horace Harding Expwy. Phone: (718) 225-2040 Fax: (718) 423-9619 NORTH CAROLINA Charlotte 28270 9129 Monroe Road, Suite 115 Phone: (704) 841-1176 Fax: (704) 708-4625 OHIO Columbus 43214 4560 Indianola Avenue Phone: (614) 263-0929 Fax: (614) 263-1238 Cleveland 44125 8001 Sweet Valley Drive Unit #19 Phone: (216) 447-9030 Fax: (216) 447-3097	OREGON Portland 97230 4916 NE 122 nd Ave. Phone: (503) 252-0107 Fax: (503) 252-2123 PENNSYLVANIA Willow Grove 19090 520 North York Road Phone: (215) 658-1430 Fax: (215) 658-1433 TENNESSEE Nashville 37214 2262 Lebanon Pike Phone: (615) 882-0320 Fax: (615) 882-0051 TEXAS Carrollton 75006 (Dallas) 1300 Interstate 35 N, Suite 112 Phone: (972) 446-2996 Fax: (972) 446-8157 Houston 77055 West 10 Business Center 1008 Wirt Road, Suite 120 Phone: (713) 682-0334 Fax: (713) 682-4867 WASHINGTON Renton 98055 (Seattle) 268 Southwest 43rd Street Phone: (425) 251-6680 Fax: (425) 251-9337
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Authorized Service Stations are located in many large cities. Telephone **800-487-8665** or **901-541-6042** for assistance locating one. Parts and accessories for Porter-Cable • Delta products should be obtained by contacting any Porter-Cable • Delta Distributor, Authorized Service Center, or Porter-Cable • Delta Factory Service Center. If you do not have access to any of these, call **888-848-5175** and you will be directed to the nearest Porter-Cable • Delta Factory Service Center. Las Estaciones de Servicio Autorizadas están ubicadas en muchas grandes ciudades. Llame al **800-487-8665** o al **901-541-6042** para obtener asistencia a fin de localizar una. Las piezas y los accesorios para los productos Porter-Cable • Delta deben obtenerse poniéndose en contacto con cualquier distribuidor Porter-Cable • Delta, Centro de Servicio Autorizado o Centro de Servicio de Fábrica Porter-Cable • Delta. Si no tiene acceso a ninguna de estas opciones, llame al **888-848-5175** y le dirigirán al Centro de Servicio de Fábrica Porter-Cable • Delta más cercano. Des centres de service agréés sont situés dans beaucoup de grandes villes. Appelez au **800-487-8665** ou au **901-541-6042** pour obtenir de l'aide pour en repérer un. Pour obtenir des pièces et accessoires pour les produits Porter-Cable • Delta, s'adresser à tout distributeur Porter-Cable • Delta, centre de service agréé ou centre de service d'usine Porter-Cable • Delta. Si vous n'avez accès à aucun de ces centres, appeler le **888-848-5175** et on vous dirigera vers le centre de service d'usine Porter-Cable • Delta le plus proche.

CANADIAN PORTER-CABLE DELTA SERVICE CENTERS

ALBERTA Bay 6, 2520-23rd St. N.E. Calgary, Alberta T2E 8L2 Phone: (403) 735-6166 Fax: (403) 735-6144 BRITISH COLUMBIA 8520 Baxter Place Burnaby, B.C. V5A 4T8 Phone: (604) 420-0102 Fax: (604) 420-3522	MANITOBA 1699 Dublin Avenue Winnipeg, Manitoba R3H 0H2 Phone: (204) 633-9259 Fax: (204) 632-1976 ONTARIO 505 Southgate Drive Guelph, Ontario N1H 6M7 Phone: (519) 836-2840 Fax: (519) 767-4131	QUÉBEC 1515 ave. St-Jean Baptiste, Québec, Québec G2E 5E2 Phone: (418) 877-7112 Fax: (418) 877-7123 1447, Begin St-Laurent, (Montréal), Québec H4R 1V8 Phone: (514) 336-8772 Fax: (514) 336-3505
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