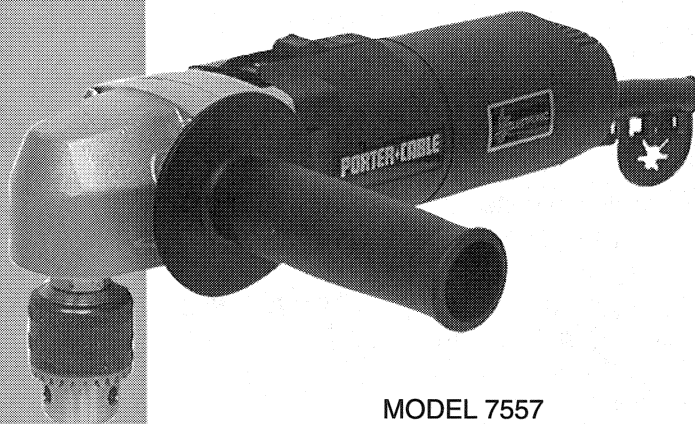


Double Insulated Right Angle Drill

Instruction manual



MODEL 7557

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. _____

PORTER-CABLE
PROFESSIONAL POWER TOOLS

Part No. 695238-4910

IMPORTANT SAFETY INSTRUCTIONS

WARNING: When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury, including the following:

READ AND FOLLOW ALL INSTRUCTIONS.

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.

Product Manager
Porter-Cable Corporation
4825 Highway 45 North
P. O. Box 2468
Jackson, TN 38302-2468

POLARIZED PLUGS: To reduce the risk of electric shock, this equipment has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.

1. KEEP WORK AREA CLEAN. Cluttered areas and benches invite injuries.

2. AVOID DANGEROUS ENVIRONMENT. Don't expose power tools to rain. Don't use power tools in damp or wet locations. Keep area well lit. Avoid chemical or corrosive environment. Do not use tool in presence of flammable liquids or gases.

3. GUARD AGAINST ELECTRIC SHOCK. Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges, refrigerator enclosures.

4. KEEP CHILDREN AWAY. Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.

5. STORE IDLE TOOLS. When not in use, tools should be stored in dry, and high or locked-up place – out of reach of children.

6. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was intended.

7. USE RIGHT TOOL. Don't force small tool or attachment to do the job of a heavy duty tool. Don't use tool for purpose not intended – for example – do not use a circular saw for cutting tree limbs or logs.

8. DRESS PROPERLY. Do not wear loose clothing or jewelry. Loose clothing, draw strings and jewelry can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.

9. USE SAFETY GLASSES. Wear safety glasses or goggles while operating power tools. Also face or dust mask if operation creates dust. All persons in the area where power tools are being operated should also wear safety glasses and face or dust mask.

10. DON'T ABUSE CORD. Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges. Have damaged or worn power cord and strain reliever replaced immediately. **DO NOT ATTEMPT TO REPAIR POWER CORD.**

11. 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.

12. DON'T OVERREACH. Keep proper footing and balance at all times.

13. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Have all worn, broken or lost parts replaced immediately. Keep handles dry, clean and free from oil and grease.

14. DISCONNECT TOOLS when not in use, before servicing, and when changing accessories such as blades, bits, cutters, etc.

15. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

16. AVOID UNINTENTIONAL STARTING. Do not carry a plugged-in tool with finger on switch. Be sure switch is off when plugging in. Keep hands, body and clothing clear of blades, bits, cutters, etc. when plugging in the tool.

17. OUTDOOR USE EXTENSION CORDS. When tool is used outdoors, use only extension cords marked "Suitable for use with outdoor appliances – store indoors when not in use."

18. STAY ALERT. Watch what you are doing. Use common sense. Do not operate tool when you are tired or while under the influence of medication, alcohol or drugs.

19. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service center. Do not use tool if switch does not turn it on and off.

20. WEAR EAR PROTECTION to safeguard against possible hearing loss.

SAVE THESE INSTRUCTIONS

ADDITIONAL SAFETY RULES FOR PORTABLE DRILLS

1. ALWAYS hold drill by the handle **ONLY** to prevent accidental electrical shock resulting from cutting a live wire when drilling into a wall or other blind areas.

2. DO NOT use bits larger than those recommended on page 5. Large bits may overload the drill and damage the motor and gears.

3. USE ONLY the proper chuck key to tighten or loosen the chuck. Do not use chuck if jaws or other parts are cracked or worn.

4. **NEVER** hold work in your hand, lap, or against other parts of your body when drilling.
5. **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.
6. **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, any safety information available from your material supplier.

MOTOR

Many Porter-Cable tools will operate on either D.C., or single phase 25 to 60 cycle A.C. current and voltage within plus or minus 5 percent of that shown on the specification plate on the tool. Several models, however, are designed for A.C. current only. Refer to the specification plate on your tool for proper voltage and current rating.

CAUTION: Do not operate your tool on a current on which the voltage is not within correct limits. Do not operate tools rated A.C. only on D.C. current. To do so may seriously damage the tool.

EXTENSION CORD SELECTION

If an extension cord is used, make sure the conductor size is large enough to prevent excessive voltage drop which will cause loss of power and possible motor damage. A table of recommended extension cord sizes will be found below. This table is based on limiting line voltage drop to 5 volts (10 volts for 230 volts) at 150% of rated amperes.

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.

RECOMMENDED EXTENSION CORD SIZES FOR USE WITH PORTABLE ELECTRIC TOOLS

		Length of Cord in Feet								
		115V	25 Ft.	50 Ft.	100 Ft.	150 Ft.	200 Ft.	250 Ft.	300 Ft.	400 Ft.
		230V	50 Ft.	100 Ft.	200 Ft.	300 Ft.	400 Ft.	500 Ft.	600 Ft.	800 Ft.
Nameplate Ampere Rating	0-2	18	18	18	16	16	14	14	12	12
	2-3	18	18	16	14	14	12	12	10	10
	3-4	18	18	16	14	12	12	10	10	8
	4-5	18	18	14	12	12	10	10	8	8
	5-6	18	16	14	12	10	10	8	8	6
	6-8	18	16	12	10	10	8	6	6	6
	8-10	18	14	12	10	8	8	6	6	4
	10-12	16	14	10	8	8	6	6	4	4
	12-14	16	12	10	8	6	6	6	4	2
	14-16	16	12	10	8	6	6	4	4	2
	16-18	14	12	8	8	6	4	4	2	2
	18-20	14	12	8	6	6	4	4	2	2

OPERATING INSTRUCTIONS

FOREWORD

The Model 7557 Right Angle Drill is designed to drill holes of various sizes in wood and metal. The maximum size of which are: Wood – 1" diameter, Metal – $\frac{3}{8}$ " diameter. The right angle design is especially suited for drilling in confined spaces.

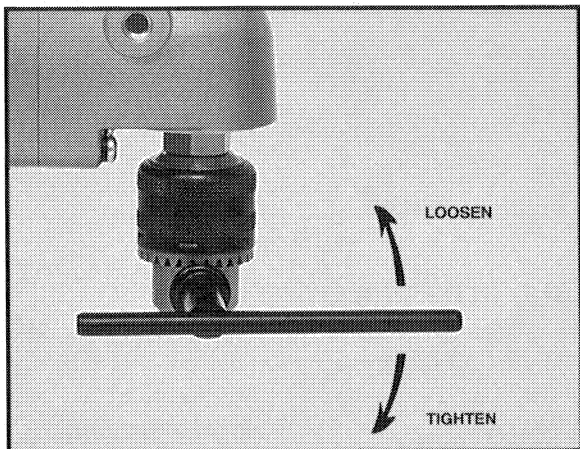


Fig. 1

INSTALLING AND REMOVING DRILL BIT

1. **CAUTION:** DISCONNECT DRILL FROM POWER SOURCE.
2. The three-jaw chuck is designed for self-centering of the drill bit. Open jaws large enough by turning outer sleeve counterclockwise, when viewing the chuck from the bit end so that bit shank can be inserted.
3. Clean and insert smooth end of drill bit as far as it will go into the chuck, or up to the flutes from small bits.
4. While holding the bit with one hand, turn outer sleeve clockwise until bit is gripped in the chuck.
5. Tighten chuck – insert chuck key into each of 3 keyholes in chuck body (Fig. 1) in succession and tighten securely by turning key clockwise.

CAUTION: Be sure chuck key is removed before starting tool.

6. To remove bit, reverse foregoing procedure.

TO INSTALL AUXILIARY HANDLE

An auxiliary handle is supplied with this drill. This handle screws directly into the drill's gear housing. A threaded hole is provided on each side of the gear housing so that the handle may be assembled for either right hand or left hand operation.

It is strongly recommended that the auxiliary handle be used and the tool held as illustrated in Fig. 2 during all drilling operations.

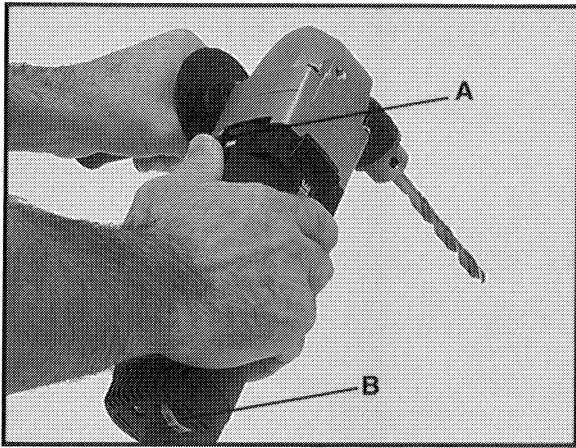


Fig. 2

TO START AND STOP DRILL

1. Make sure drill switch is "OFF". Make sure power circuit voltage is the same as that shown on the specification plate of the drill. Connect drill to power circuit.
2. Slide the switch button (A), Fig. 2, forward to turn tool "ON". When released, the switch will return to the "OFF" position.
3. To lock the switch in the "ON" position: With the switch "ON", press the front end of the switch button (A), Fig. 2, in toward the tool housing. To release the switch lock: Press the back end of the switch button in toward the tool housing.
4. The drill speed may be varied by adjusting the selector dial (B), Fig. 2. The selector dial is numbered 1 through 6 with the Number 1 being the slowest speed setting (500 RPM) and 6 being the fastest (2200 RPM). The speed may be adjusted with the drill on or off. Experience will aid in choosing the correct speed for the operation being performed.

HOW TO HOLD THE DRILL

WARNING: The front end of drill may be made live if the tool drills into live wiring in a wall. TO PREVENT ACCIDENTAL ELECTRICAL SHOCK, DRILL MUST BE HELD AS SHOWN IN FIG. 2.

HOW TO USE THE DRILL

GENERAL DRILLING

1. Be sure drill bit is securely gripped in chuck. (See INSTALLING AND REMOVING DRILL BIT).
2. Make sure work is held securely in vise or clamped in place prior to starting drilling operation.

CAUTION: Loose work may spin and cause bodily injury.

3. Locate exact center for hole to be drilled and using a center punch, make a small dent in work.
4. Place tip of drill bit in dent made by center punch, hold drill square with work, and start the motor.
5. Apply steady, even pressure to keep drill bit cutting. Too little pressure will keep the bit from cutting and dull the edges due to excessive friction created by sliding over the surface.

CAUTION: Too much pressure may cause the bit to break or overheat resulting in bodily injury or damaged drill bits.

6. If drill stalls or becomes jammed in the hole, slide switch to OFF immediately, removing drill bit from work and determine cause of stalling or jamming. DO NOT SWITCH MOTOR ON AND OFF IN AN ATTEMPT TO FREE A STALLED OR JAMMED DRILL – THIS WILL DAMAGE THE MOTOR.
7. Reduce the pressure on the drill just before the bit cuts through the work to avoid splintering wood or stalling in metal.
8. 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.

CAUTION: Be ALERT and brace yourself against the twisting action of the 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 auger bits, 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 instruction listed under GENERAL DRILLING, the following also apply:

1. Use only good quality sharp high speed steel twist bits when drilling metal.
2. With variable speed drills, 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 lubricant, such as oil, on the drill point helps keep the bit cool, increases drilling action and prolongs drill bit life.

MAINTENANCE

KEEP TOOL CLEAN

Periodically blow out all air passages with dry compressed air. Remove buildup of grime resulting from working green or sappy wood. All plastic parts should be cleaned with a soft damp cloth. NEVER use solvents to clean plastic parts. They could possibly dissolve or otherwise damage the material.

CAUTION: Wear safety glasses while using compressed air.

FAILURE TO START

Should your tool fail to start, check to make sure the prongs on the cord plug are making good contact in the outlet. Also, check for blown fuses or open circuit breakers in the line.

BRUSH INSPECTION AND LUBRICATION

For your continued safety and electrical protection, brush inspection and replacement 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, if required; reassembled with new brushes; and performance tested.

Any loss of power before the above maintenance check may indicate the need for immediate servicing of your tool. DO NOT CONTINUE TO OPERATE TOOL UNDER THIS CONDITION. If proper operating voltage is present, return your tool to the Service Station for immediate service.

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 these tools 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.

TWIST DRILL BITS $\frac{3}{8}$ " or less in diameter

SPADE BITS 1" or less in diameter

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 as listed under "TOOLS-ELECTRIC" in the Yellow Pages of your telephone directory. 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 SERVICE CENTERS

Parts and Repair Service for Porter-Cable Power Tools are Available at These Locations

CALIFORNIA

City of Industry 91745 (Los Angeles)
1305 John Reed Court
Phone: (818) 333-3566
Fax: (818) 330-5900

San Leandro 94577 (Oakland)
3039 Teagarden Street
Phone: (510) 357-9762
Fax: (510) 357-7939

COLORADO

Denver 80204
2561 West 8th Avenue
Phone: (303) 892-6113
Fax: (303) 595-0358

FLORIDA

Hialeah 33014 (Miami)
16373-75 NW 57th Ave.
Phone: (305) 624-2523
Fax: (305) 628-2654

Tampa 33609
4538 W. Kennedy Boulevard
Phone: (813) 877-9585
Fax: (813) 289-7948

GEORGIA

Morrow 30260 (Atlanta)
1286 Citizens Parkway
Suite C
Phone: (404) 961-0900
Fax: (404) 961-8624

ILLINOIS

Addison 60101 (Chicago)
311 Laura Drive
Phone: (708) 628-6100
Fax: (708) 628-0023

MARYLAND

Baltimore 21227
7397 Washington Blvd.
Suite #102
Phone: (410) 799-9394
Fax: (410) 799-9398

MASSACHUSETTS

Franklin 02038 (Boston)
Franklin Industrial Park
101E Constitution Blvd.
Phone: (508) 520-8802
Fax: (508) 528-8089

MICHIGAN

Troy 48083 (Detroit)
1355 Combermere
Phone: (810) 597-5000
Fax: (810) 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 28209
4303-B South Boulevard
Phone: (704) 525-4410
Fax: (704) 525-0618

OHIO

Columbus 43214
4560 Indianola Avenue
Phone: (614) 263-0929
Fax: (614) 263-1238

Cleveland 44125
8001 Sweet Valley Dr.
Unit #18
Phone: (216) 447-9030
Fax: (216) 447-3097

PENNSYLVANIA

Philadelphia 19154
12285 McNulty Road
Phone: (215) 677-7800
Fax: (215) 677-9908

TEXAS

Dallas 75220
10720 N. Stemmons Freeway
Phone: (214) 353-2996
Fax: (214) 350-3943

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: (206) 251-6680
Fax: (206) 251-9337

Authorized Service Stations are located in all large cities. For the one nearest you, see the classified section in your phone book (under "Tools-Electric").

DELTA SERVICE CENTERS

(CENTRES D'ENTRETIEN DELTA)

ALBERTA

#10 6320 11th Street S.E.
Calgary, Alberta
T2H 2L7
Phone: (403) 255-3530
Fax: (403) 258-0767

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

644 Imperial Road
Guelph, Ontario
N1H 6M7
Phone: (519) 836-2840
Fax: (519) 836-9352

40 West Pearce St.

Unit #2
Richmond Hill, Ontario
L4B 1E3
Phone: (416) 771-6111
Fax: (416) 771-6831

QUÉBEC

523 Rue Deslauriers
St. Laurent, (Montréal) P.Q.
H4N 1W2
Phone: (514) 336-8772
Fax: (514) 336-3505

Suite 202

2022 Rue Lavoisier
Ste. Foy, Québec,
Québec
G1N 4L5
Phone: (418) 681-7305
Fax: (418) 681-1695

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