# Instruction manual

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# Double-Insulated Portable Electric Screwdriver



To learn more about Porter-Cable visit our website at:

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.	 	 	
Туре	 		
Serial No.			

Part No. 911216 - 12-03-03

# SAFETY GUIDELINES - DEFINITIONS

This manual contains information that is important for you to know and understand. This information relates to protecting YOUR SAFETY and PREVENTING EQUIPMENT PROBLEMS. To help you recognize this information, we use the symbols below. Please read the manual and pay attention to these sections.

**A** DANGER

indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

**AWARNING** 

indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

**ACAUTION** 

indicates a potentially hazardous situation which, if not avoided may result in minor or moderate injury.

CAUTION

used without the safety alert symbol indicates potentially hazardous situation which, if not avoided, may result in property damage.

AWARNING Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known (to the State of California) to cause cancer, birth defects or other reproductive harm. Some example of these chemicals are:

- lead from lead-based paints
- crystalline silica from bricks and cement and other masonry products
- 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, always wear MSHA/NIOSH approved, properly fitting face mask or respirator when using such tools.

# **GENERAL SAFETY RULES**



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

SAVE THESE INSTRUCTIONS.

## **WORK AREA**

- Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.
- 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.
- Keep bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.

# **ELECTRICAL SAFETY**

- Double insulated tools are equipped with 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 a polarized outlet. Do not change the plug in any way. Double Insulation eliminates the need for the three wire grounded power cord and grounded power supply system.
- Avoid body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is grounded.

- 3. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- 4. Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.
- When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electric shock.

# 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 OFF before plugging in. Carrying tools with your finger on the switch or plugging in tools that have 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.
- Do not overreach. Keep proper footing and balance at all times.
   Proper footing and balance enables better control of the tool in unexpected situations.
- Use safety equipment. Always wear eye protection. Dust mask, nonskid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.

# **TOOLS USE AND CARE**

- 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.
- 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. Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- 4. Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.
- Store idle tools out of reach of children and other untrained persons. Tools are dangerous in the hands of untrained users.
- 6. Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.
- 7. 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.
- Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another tool.

# **SERVICE**

- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could 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 electric shock or injury.

# SPECIFIC RULES AND SYMBOLS

- **AWARNING** HOLD TOOL BY INSULATED GRIPPING SURFACES WHEN PERFORMING AN OPERATION WHERE THE CUTTING TOOLS MAY CONTACT HIDDEN WIRING OR ITS OWN CORD. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.
- 2. **VERIFY** the direction of rotation before starting the tool.
- **NEVER ATTEMPT TO CHANGE DIRECTION** of rotation while switch is "ON". To do so, may damage interlock feature built into switch. Be sure switch is "OFF" and motor has completely stopped before changing direction of rotation.
- 4. 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.

**AWARNING** 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

YMBOL	DEFINITION
V	 volts
Α	 amperes
Hz	 hertz
W	 watts
kW	 kilowatts
μF	 microfarads
İ	 liters
kg	 kilograms
N/cm <sup>2</sup>	 newtons per square centimeter
Pa	 pascals
h	 hours
min	 minutes
S	 seconds

$\sim$	 alternating current
$_{\scriptscriptstyle 3}$ $\sim$	 three-phase alternating current
$_{3N}$ $\sim$	 three-phase alternating current with neutral
<del></del>	 direct current
$n_0$	 no load speed
$\overline{\sim}$	 alternating or direct current
	 Class II Construction
	 splash-proof construction
44	watertight construction
/min	 revolutions or reciprocation per minute

# **REPLACEMENT PARTS**

When servicing use only identical replacement parts.

### 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 in this section. This table is based on limiting line voltage drop to 5 volts (10 volts for 230 volts) at 150% of rated amperes.

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.	500 Ft.
	230V	50 Ft.	100 Ft.	200 Ft.	300 Ft.	400 Ft.	500 Ft.	600 Ft.	800 Ft.	1000 Ft.
	0-2	18	18	18	16	16	14	14	12	12
	2-3	18	18	16	14	14	12	12	10	10
Rating	3-4	18	18	16	14	12	12	10	10	8
Rat	4-5	18	18	14	12	12	10	10	8	8
ere	5-6	18	16	14	12	10	10	8	8	6
Ampere	6-8	18	16	12	10	10	8	6	6	6
	8-10	18	14	12	10	8	8	6	6	4
late	10-12	16	14	10	8	8	6	6	4	4
Jeb	12-14	16	12	10	8	6	6	6	4	2
Nameplate	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

# **FUNCTIONAL DESCRIPTION**

Porter-Cable screwdrivers are designed to install or remove various sizes and types of fasteners.

# TO START AND STOP TOOL

### **A** CAUTION

Confirm that the trigger switch is "OFF" before connecting the tool to the power source.

- Confirm that the switch is "OFF".
   Make sure that the power circuit voltage is the same as that shown on the specification plate.
   Connect the drill to the power circuit.
- Squeeze the TRIGGER SWITCH

   (A) Fig. 1 to start the motor.

   Release the trigger switch to stop the motor.
- 3. A switch-lock button (B) Fig. 1 is provided to keep the motor running without holding the trigger switch "ON".

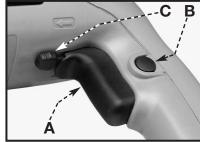


Fig. 1

**TO LOCK** the tool in the "ON" position, squeeze the trigger switch as far as it will go, push in the switch-lock button, and release the trigger switch.

TO RELEASE the switch-lock button, squeeze the trigger switch and release.

**NOTE:** The switch-lock button can be engaged only when the tool is running at maximum speed.

### CAUTION

Never use the switch-lock button when the tool may have to be stopped suddenly.

4. This tool will operate in either the forward direction (clockwise rotation), or the reverse direction (counter-clockwise rotation). For counter-clockwise rotation, stop the motor by releasing the trigger switch and push the reversing switch (C) Fig. 1 toward the right side of the drill, or in the opposite direction for clockwise rotation.

## **▲** CAUTION

Never attempt to change direction of rotation while the switch is "ON". To do so may damage interlock feature built into switch. Be sure that the switch is "OFF" and the motor has completely stopped before changing the direction of rotation.

 VARIABLE SPEED – As the trigger switch is squeezed, the tool speed increases.

# TO CHANGE BIT HOLDER

- Pull the Depth Stop Assembly

   (A) Fig. 2 from the clutch housing.
- Pull the bit holder (C) Fig. 2 out. If it is difficult to remove, grip it with pliers and pull.
   NOTE: Bit (D) Fig. 2 may be removed from the bit holder by pulling it straight out.
- 3. Push new bit holder into the spindle, snapping it into place.
- Replace Depth Stop Assembly and adjust the depth stop. (See "ADJUST DEPTH STOP" below.)

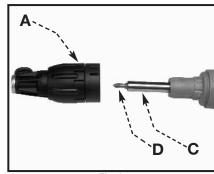


Fig. 2

# **ADJUST DEPTH STOP**

- 1. Turn the adjusting collar until the end of the bit extends 3/32" beyond the end of the depth stop. Do not push the bit holder in. This will engage the internal drive.
- Drive a test fastener in a scrap workpiece. Examine the results of the drive and make additional depth stop adjustments:
  - a) To increase the depth of drive, repeat STEP 1 and turn the adjusting collar so that the end of the bit extends further than the end of the depth stop.
  - b) To decrease depth of drive, repeat STEP 1 and turn the adjusting collar so that the end of the bit is closer to the end of depth stop. Each click of the adjusting collar results in .007" change in the depth of drive.
- 3. Repeat STEPS 1 and 2 until the desired result is obtained.

## **DRIVING DRYWALL SCREWS**

NOTE: Maximum size screw for use with this tool is #12 Wood Screw.

- 1. Install a drywall bit and bit holder in the screwdriver.
- 2. Set the screwdriver for the correct rotation.
- 3. Start the screwdriver and place a drywall screw on the bit.

**ACAUTION** Do not exert pressure on the screw while performing this operation.

- 4. Place the end of the screw in the desired location and remove your fingers.
- Apply forward pressure to the drive screw until the depth stop rests on the surface of the work. Adjust the depth stop so that the fastener head is sunk just below the surface of the wallboard.

### TO REMOVE SCREWS

- 1. Remove the Depth Stop Assembly.
- 2. Install a proper bit that fits the screw.
- 3. Set the screwdriver for reverse rotation.
- 4. Place the bit on the screw and apply forward pressure.
- 5. Start the screwdriver.

# **MAINTENANCE**

# CHECK CLUTCH CONDITION

Periodically, check the screwdriver clutch jaws for wear. To make this inspection, remove the clutch housing (A) Fig. 3 from the power unit.

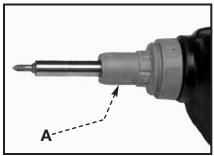


Fig. 3

**NOTE:** The clutch housing is attached to the power unit with **left-hand** threads. The depth stop assembly may be removed from the clutch housing by pulling it straight off. Remove the clutch housing by turning the clutch housing clockwise.

**NOTE:** Be careful not to lose the small spring that is in the end of the power unit spindle shaft.

Note the condition of the 3-jaw clutch-faces on the power unit and screwdriver mechanism. If they are badly rounded where the angular face meets the top surface, or appear otherwise worn or faulty, or if the clutch elements are not securely held in place by the snap rings, return the entire tool to your AUTHORIZED PORTER-CABLE SERVICE STATION for service.

Proceed if the jaws are not seriously worn and there are no other apparent faults in the mechanism. Clean the mechanism and all internal areas of chips or other foreign material and brush a thin coat of PORTER-CABLE gear lubricant on the clutch elements and surrounding areas. Attach the screwdriver mechanism to the power unit. Confirm that the spring is in the spindle shaft. **NOTE:** The housing uses left-hand threads.

# **KEEP TOOL CLEAN**

Periodically blow out all air passages with dry compressed air. 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.

**AWARNING** 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.

# LUBRICATION

This tool has been lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions. No further lubrication is necessary.

# **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 DELTA FACTORY 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. Have worn parts replaced and lubricate with fresh lubricant. Have new brushes installed, and test the tool for performance.

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 DELTA FACTORY SERVICE CENTER. All repairs made by these agencies are fully guaranteed against defective material and workmanship. We cannot quarantee 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**

A complete line of accessories is available from your Porter-Cable

Delta Supplier, Porter-Cable

Delta Factory Service Centers, and Porter-Cable Authorized Service Stations. Please visit our Web Site

www.porter-cable.com for a catalog or for the name of your nearest supplier.

# **▲WARNING**

Since accessories other than those offered by Porter-Cable •Delta have not been tested with this product, use of such accessories could be hazardous. For safest operation, only Porter-Cable • Delta recommended accessories should be used with this product.

# 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, Jackson, Tennessee 38305; 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.

Para obtener más información sobre Porter-Cable, visite nuestro sitio web en:

http://www.porter-cable.com

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

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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 Siguientes 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

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### MINNESOTA

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### MISSOURI

North Kansas City 64116 1141 Swift Avenue Phone: (816) 221-2070 Fax: (816) 221-2897

St. Louis 63119 7574 Watson Road Phone: (314) 968-8950 Fax: (314) 968-2790

### NEW YORK

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### 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

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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

Carrollton 75006 (Dallas) 1300 Interstate 35 N. Suite 112 Phone: (972) 446-2996 Fax: (972) 446-8157

Houston 77038

4321 Sam Houston Parkway, West Phone: (281) 260-8887

### Fax: (281) 260-9989 WASHINGTON

Auburn 98001 (Seattle) 3320 West Valley HWY, North Building D, Suite 111 Phone: (253) 333-8353 Fax: (253) 333-9613

Authorized Service Stations are located in many large cities. Telephone 800-487-8665 or 731-541-6042 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 ó al 731-541-6042 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 731-541-6042 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

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### 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) 767-4132

# St-Jean Baptiste, Suite 180

Québec, Québec G2F 5F2 Phone: (418) 877-7112 Fax: (418) 877-7123

1447, Begin St-Laurent, (Montréal), Québec

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