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**Instruction  
manual**

## **Power Tool-Triggered Wet/Dry Vac**



MODEL 7812/7814

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visit our website at:

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

**PORTER-CABLE**  
PROFESSIONAL POWER TOOLS

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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. 904362 - 02-14-02

This vacuum is intended for commercial use.

## SAFETY INSTRUCTIONS

### GROUNDING INSTRUCTIONS

This Appliance must be grounded. If it should malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This appliance is equipped with a cord having an equipment-grounding conductor and grounding plug. The plug must be inserted into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.

**⚠ WARNING** - Improper connection of the equipment-grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the appliance - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

This appliance is for use on a nominal 120-volt circuit, and has a grounded plug that looks like the plug illustrated in Figure A. A temporary adapter that looks like the adapter illustrated in Fig. B may be used to connect this plug to a 1-pole receptacle as shown in Fig. B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet (Fig. A) can be installed by a qualified electrician. The green colored rigid ear, lug, or the like extending from the adapter must be connected to a permanent ground such as a properly grounded outlet box cover. Whenever the adapter is used, it must be held in place by a metal screw.

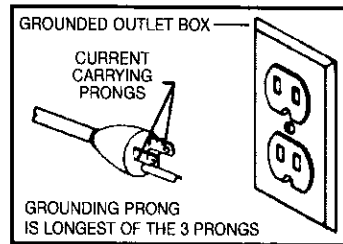


Fig. A

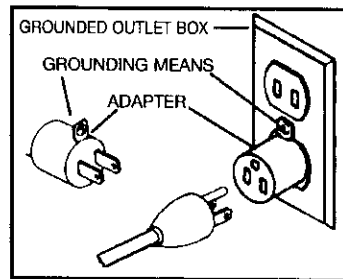



Fig. B

**Note: In Canada, the use of a temporary adapter is not permitted by the Canadian Electrical Code.**

# IMPORTANT SAFETY INSTRUCTIONS

## SAVE THESE INSTRUCTIONS

 **WARNING:** When using electric appliances, always follow basic safety precautions to reduce the risk of fire, electric shock and personal injury, including the following:

**BEFORE USING THIS APPLIANCE,  
READ AND FOLLOW ALL INSTRUCTIONS.**

These appliances were made for certain applications. Porter-Cable strongly recommends that this appliance NOT be modified and/or used for any application other than for which it was designed. If you have any questions about its application, DO NOT use the appliance until you have written Porter-Cable and we have advised you.

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

1. Connect to a properly grounded outlet only (See Grounding Instructions).
2. Do not leave the appliance when it is connected to a power source. Unplug it from outlet when not in use and before servicing.
3. Do not expose the appliance to rain. Store it indoors. This action will reduce the risk of electric shock.
4. Do not allow the appliance to be used as a toy. Pay close attention when the appliance is used by children, or when children are nearby.
5. Use this appliance ONLY as described in the manual. Use only recommended attachments from Porter-Cable.
6. Do not use this appliance with a damaged cord or plug. If the appliance is not working correctly, or if it has been dropped, damaged, left outdoors, or dropped in water, return it to a service center.
7. Do not pull or carry this appliance by the cord. Do not use the cord as a handle, close a door on the cord, or pull the cord around sharp edges or corners. Do not run the appliance over the cord. Keep the cord away from heated surfaces.
8. Do not unplug this appliance by pulling on the cord. To unplug, grasp the plug, not the cord.
9. Do not handle the plug or appliance with wet hands.
10. Do not put any objects into the openings of the appliance. Do not use the appliance with any opening blocked. Keep all openings free of dust, lint, hair, or anything else that may reduce air flow.
11. Keep hair, loose clothing, fingers, and all body parts away from the openings and moving parts.
12. Turn off all controls before unplugging appliance.
13. Use extra care when using the appliance on stairs.
14. Do not use the appliance to pick up flammable or combustible liquids, such as gasoline, or use the appliance in areas where flammable or combustible liquids are present.

15. Do not pick up anything that is burning or smoking (cigarettes, matches, or hot ashes).
16. Do not use this appliance without a dust bag and/or filters in place.

## REPLACEMENT PARTS

When servicing use only identical replacement parts.

## MOTOR

Many Porter-Cable products 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 appliance on a current on which the voltage is not within correct limits. Do not operate appliances rated A.C. only on D.C. current. To do so may seriously damage the appliance.

## 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.

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

RECOMMENDED EXTENSION CORD SIZES FOR USE WITH ELECTRIC TOOLS

		Length of Cord in Feet									
		115V 230V	25 Ft. 50 Ft.	50 Ft. 100 Ft.	100 Ft. 200 Ft.	150 Ft. 300 Ft.	200 Ft. 400 Ft.	250 Ft. 500 Ft.	300 Ft. 600 Ft.	400 Ft. 800 Ft.	500 Ft. 1000 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	

## UNPACKING

Carefully remove the Vacuum Cleaner from the carton. Retain all packing materials until you have inspected and satisfactorily operated the Vacuum Cleaner.

**⚠ WARNING:** Do not connect the appliance to the power source until you have read and understood this entire instruction manual.

Release the two container locks (A), Fig. 1, (one on each side of Vacuum Cleaner), by pulling outward on the bottom of each lock.

Lift the Motor Unit from the container and carefully set aside.

Remove the wheels and accessories from the container.

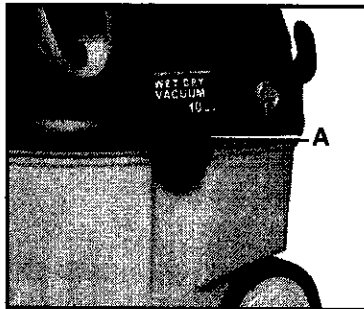


Fig. 1



Fig. 2

## ASSEMBLY

**CAUTION:** DISCONNECT APPLIANCE FROM POWER SOURCE.

For **model 7814**, begin with instruction #5.

1. Invert the container on a solid, flat surface (like a workbench or floor).
2. Install the two Steering Rollers into the holes provided in the bottom of the container. Seat firmly.
3. Insert the wand rest, (A) Fig. 2 into its position and seat firmly.
4. The wheel and axle assembly consists of two wheels on an axle. Place this assembly in the slot provided in the bottom of the container, and press into place. Seat firmly.
5. Set container upright, on its wheels.

**NOTE:** If the Vacuum Cleaner is to be used to pick-up liquid or wet material, skip step 6.

6. Install the paper filter bag. Please note that the mounting hole is offset in the bag. The hole is closest to the top side of the bag. Position the bag (into the container), with its top side up, and seat mounting hole onto the container's intake port. **NOTE:** Press only on the bag's protective card. Be careful to not tear the bag.
7. Place the motor unit onto the container and secure it by closing the two container Locks.

8. Attach the vacuum hose to the machine (Fig. 3). The Hose is equipped with a bayonet style connector. Align the projection on the side of the Hose connector with the slot in the Container intake port. Slide connector into intake port and rotate one-quarter turn clockwise to lock.

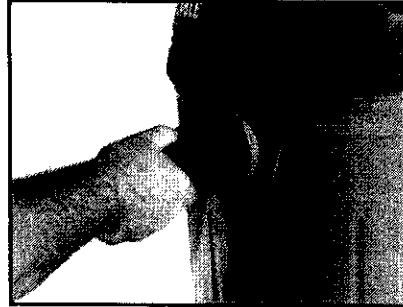


Fig. 3

**NOTE:** Models 7812 and 7814 Vacuum Cleaners are equipped with a Static Dissipating System that can help dissipate static electrical charges (sometimes experienced when recovering very dry, powdered materials), when used with a Static Dissipating type vacuum hose. **The hose that comes with your unit is NOT a static dissipating hose.** To install a Static Dissipating type hose will require removal of the bayonet connector from the standard hose, and installation (of the bayonet connector), onto the Static Dissipating hose, as follows:

- A. Depress locking tab (A) Fig. 4A and pull collar (B) out of the bayonet connector slightly.
- B. Rotate the assembly 180° and depress the second locking tab, allowing the bayonet connector to be separated from the hose assembly.
- C. Grasp hose in one hand and mounting hub (C) Fig. 4B in the other. Rotate the mounting hub clockwise (left-hand thread) to remove it from the hose.

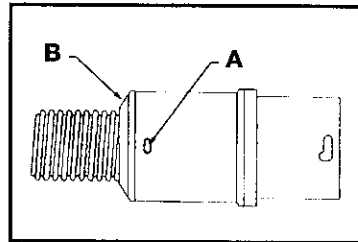


Fig. 4A

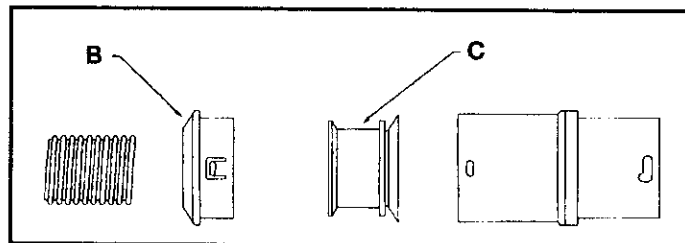


Fig. 4B

- D. Slide the collar (B) off the standard hose and position it onto the Static Dissipating hose.
  - E. Thread the mounting hub (C) onto the Static Dissipating hose (by turning it counterclockwise).
  - F. Place the bayonet connector onto the mounting hub and position the collar (B), so that its locking tabs align with the holes in the bayonet connector.
  - G. Press the collar into the bayonet connector until the two locking tabs engage the holes in the bayonet connector.
9. Attach the Vacuum Hose to the appropriate accessory nozzle, or to the dust port of a power tool.

## OPERATING INSTRUCTIONS

The Porter-Cable Power Tool-Triggered Wet/Dry Vac is designed for use as a general purpose shop vacuum, or for use connected to various power tools. With the dust bag removed, it can be used to pick up water and other wet materials.

A power outlet is provided that allows a power tool to be connected to the Vacuum Cleaner. The Vacuum Cleaner will automatically switch "ON" when the power tool is started, and it will automatically switch "OFF" approximately 6 to 10 seconds after the power tool is turned "OFF".

### POWER SWITCH

The power switch on both the 7812 and 7814 models has two positions – on and off. When not using a power tool, turn the vacuum cleaner to the "ON" position to begin vacuuming.

These vacuums can be used to provide a dust-free environment when attached to a power tool.

An accessory outlet is located under a hinged cover (A) Fig. 5 on the front of the vacuum cleaner. Lift this cover to expose the outlet.

Connect the power cord of the power tool to this outlet. Turn the power switch of the vacuum cleaner to the "ON" position. A green light, located next to the outlet, will glow. This light indicates that the vacuum will start automatically when the power tool is activated.

When the power tool is switched to the "OFF" position, the vacuum motor will continue to run for 6 to 10 seconds to finish collecting the dust, and then it will stop.

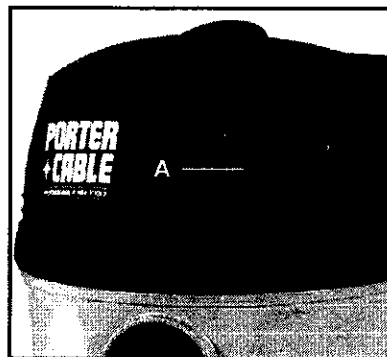


Fig. 5

## PARKING BRAKE

Both models are equipped with a Parking Brake. The parking brake will lock one wheel to prevent the vacuum from rolling.

To engage parking brake, use your toe to depress the brake button. The brake will snap into the locked position.

To disengage parking brake, use your toe to pull up on the brake button until it snaps into the unlocked position.

## TOP FILTER

Both models are equipped with a top filter. If vacuum efficiency is reduced (indicating a clogged filter), proceed as follows:

1. Turn the Vacuum Cleaner switch to the "OFF" position. Grasp handle (C) Fig. 6 and pull out (approximately one and one-half inches), then release. Repeat several times. This action "shakes" the filter to remove loose dirt.
2. Switch Vacuum Cleaner "ON" and check performance. If still unsatisfactory, switch Vacuum Cleaner "OFF" and continue to step 3.

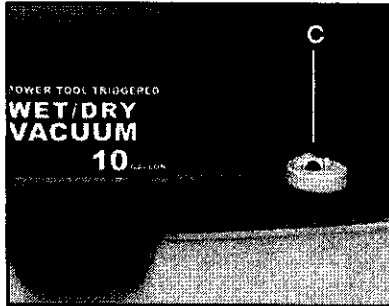


Fig. 6



Fig. 7

3. **CAUTION: DISCONNECT APPLIANCE FROM POWER CIRCUIT.**
4. Pull upward on the filter cover lock, located on rear of the motor unit (see Fig. 7) to expose the filter.
5. Remove the filter (see Fig. 8) and tap it to remove any loose dirt.
6. If the filter is still dirty, clean it under running water (see Fig. 9). If this does not adequately clean the filter, replace it.

**NOTE:** Allow wet filter to dry before re-installing it in the appliance.

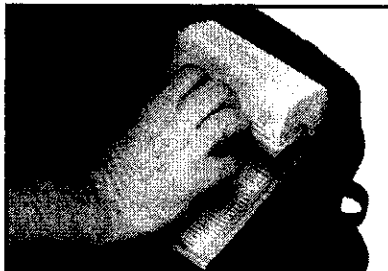


Fig. 8

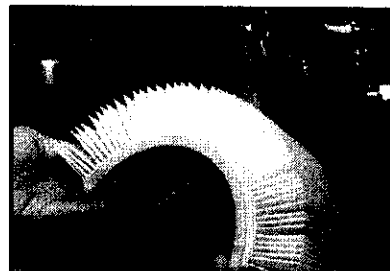


Fig. 9



**NOTE:** A small sponge filter is located next to the top filter. This filter helps to cool the motor. Check the filter on a regular basis. If it is dirty, clean it by blowing dry compressed air through it.

### **DRY PICK-UP**

**CAUTION:** Do not pick up anything that is burning, smoldering, or smoking such as matches, cigarettes, or hot ashes.

Do not use to vacuum combustible explosive materials, such as coal, grain, or other finely divided combustible material.

Do not use to vacuum hazardous, toxic, or carcinogenic materials, such as asbestos or pesticide.

The vacuum cleaner may be used to pick up dry material with or without a dust bag installed. The dust bag provides a convenient method for disposing of the material that is collected.

Always use a paper bag when collecting fine dust. The bag will reduce clogging of the flat filter, and increase dust holding capacity.

### **WET PICK-UP**

**CAUTION:** Never pick-up explosive liquids (e.g. gasoline, diesel fuel, heating oil, paint thinner, etc.), acids or solvents.

Always remove paper bag before picking up liquids or wet material. The vacuum motor will shut off automatically when the container is full. Move the power switch to the "OFF" position before emptying container.

**CAUTION: DISCONNECT APPLIANCE FROM POWER CIRCUIT BEFORE REMOVING POWER UNIT FROM CONTAINER.**

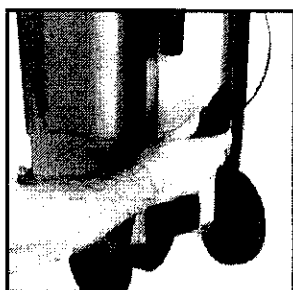


Fig. 10

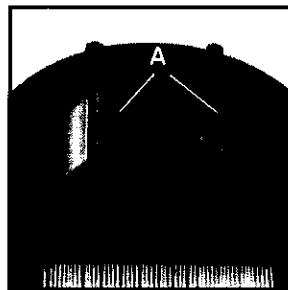


Fig. 11

The Model 7814 has a drain hose located at the rear of the container. Remove the hose from its holder and point it downward to drain the container (see Fig. 10).

Always clean and dry the interior of the container after using the machine for wet pick-up. Also clean the two brass colored electrodes (see Fig. 11), on the bottom of the motor unit. These electrodes are part of the low-voltage system that stops the vacuum motor when the container is full of liquid or wet material.

## **MAINTENANCE**

### **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.

**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.

### **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 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

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](http://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, 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.