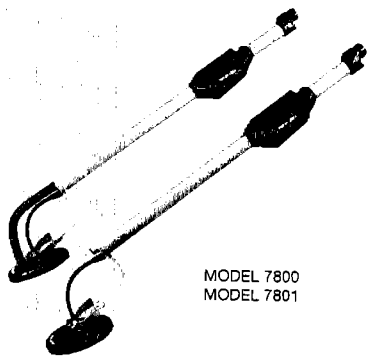


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**Instruction
manual**

Drywall Sander



MODEL 7800
MODEL 7801

Patent Pending

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. 904374 - 05-26-02

To learn more about Porter-Cable visit our website at:
<http://www.porter-cable.com>



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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.

GENERAL SAFETY RULES

WARNING: 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

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. **Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances. Never remove the grounding prong or modify the plug in any way. Do not use any adapter plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. If the tools should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.**
2. **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. **Don't 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.
5. **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.
5. **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables 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.

TOOLS 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.** 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.
5. **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.
8. **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

1. **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.

ADDITIONAL SAFETY RULES FOR DRYWALL SANDER

1. **USE A RESPIRATOR approved by NIOSH for "Dust and Mist".** Ventilate work area and/or use a dust collector. Continued and prolonged exposure to high concentrations of airborne dust may affect the respiratory system function.
2. **MAINTAIN FIRM FOOTING AND BALANCE.** Use appropriate scaffolding. Do not overreach.
3. **SANDING OF LEAD-BASED PAINT IS NOT RECOMMENDED.** Lead based paint should only be removed by a professional.
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.
5. **WARNING:** This tool was designed for certain applications: **DO NOT** modify and/or use it for any application other than for which it was designed. If you have 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

SYMBOL	DEFINITION
V	volts
A	amperes
Hz	hertz
W	watts
kW	kilowatts
µF	microfarads
l	liters
kg	kilograms
N/cm ²	newtons per square centimeter
Pa	pascals
h	hours
min	minutes
s	seconds
	alternating current
3 	three-phase alternating current
3N 	three-phase alternating current with neutral
	direct current
n	no load
	alternating or direct current
	Class II Construction
	splash-proof construction
	watertight construction
.../min	revolutions or reciprocation per minute

OPERATING INSTRUCTIONS

FUNCTIONAL DESCRIPTION

The Porter-Cable Drywall Sander is designed for sanding walls and ceilings made of drywall or plaster. The Sander provides a superior finish, and is faster than conventional finishing methods for both new construction and renovation work. Clean-up time for Model 7800 is minimized by the use of an external vacuum cleaner attached to the sander.

ABRASIVE DISC SELECTION

The Drywall Sander is shipped with a 100 grit, abrasive disc installed. This abrasive is suitable for most applications. Abrasive discs of 120 grit and 150 grit are available for situations requiring a smoother finish.

CAUTION: Do not attempt to use any abrasives other than those recommended by Porter-Cable.

HOW TO HOLD A DRYWALL SANDER

The Drywall Sander should be held with both hands on the main tube (A) Fig. 1. The hands may be positioned anywhere along the main tube to provide the best combination of reach and leverage for the particular application.

CAUTION: Keep your hands on the main tube (A) Fig. 1. Keep away from the sanding head area. The sanding head swivels in multiple directions and could pinch your hand.

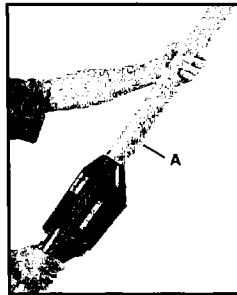


Fig. 1

CONNECT MODEL 7800 DRYWALL SANDER TO VACUUM CLEANER

The following items are furnished with the Model 7800 Drywall Sander:

1. One vacuum hose. The hose is 13 feet long with a standard 1-1/4" vacuum cleaner connector on one end and a special swivel connector on the Sander end. It has a static dissipating feature to dissipate static electrical charges that are sometimes experienced when recovering drywall dust.
2. One 1/4" to 2/2" adapter (adapts the 1/4" hose connector to fit a 2/2" vacuum cleaner).
3. Three straps to connect the Sander cord to the vacuum hose (to prevent tangling).

INSTALLATION

1. Install the special drywall dust bag into your vacuum cleaner, following the instructions supplied with the vacuum cleaner. If this dust bag does not fit your vacuum cleaner correctly, purchase and install a suitable filter bag that is rated for drywall dust.

CAUTION: Failure to use a dust bag rated for drywall dust will increase the level of airborne dust particles in the work area. Continued and prolonged exposure to high concentrations of airborne dust may affect your respiratory system function.

2. Connect the vacuum hose to the Drywall Sander. Open the Drywall Sander's hose connector by turning the large nut (A) Fig. 2 counterclockwise a few turns. Push the vacuum hose swivel connector (B) Fig. 2 into the Drywall Sander connector and seat firmly. Turn the large nut clockwise to tighten the connector.

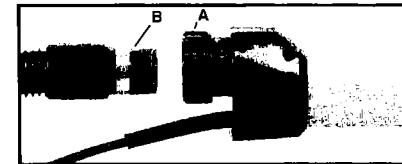


Fig. 2



Fig. 3

3. Install the three "hook & loop" type straps to prevent tangling of the Sander cord and the vacuum hose. Lay the cord and the vacuum hose out parallel to each other. Place a strap approximately two feet from each end and place the third strap halfway between the other two. Wrap the long end of each strap around the vacuum hose and close. Wrap the short end of each strap around the cord and close (Fig. 3).

4. Connect the vacuum hose to your vacuum cleaner. Use the 1-1/4" to 2-1/2" adapter if necessary. If your vacuum cleaner requires a special connector (something other than the standard 1-1/4" to 2-1/2" connectors supplied with the Drywall Sander), contact your vacuum cleaner supplier for the proper adapter.

TO START AND STOP DRYWALL SANDER

Be certain that the power circuit voltage is the same as that shown on the specification plate of the tool, and that the switch is OFF. Connect the tool to the power circuit.

The Drywall Sander is equipped with a "rocker" type switch (A) Fig. 4. The top end of the switch button is labeled "OFF", and the bottom end of the button is labeled "ON". To start the Sander, press the bottom (ON) end of the switch. To stop the Sander, press the top (OFF) end of the switch.

SPEED CONTROL

The **Model 7800** Drywall Sander is equipped with a variable speed control. The speed is adjusted by turning the control knob (B) Fig. 4. The control knob is numbered "1" through "5". The setting "1" is the slowest speed (approximately 1000 RPM) and "5" is the fastest speed (approximately 2,000 RPM).

Use the higher speed settings for fast stock removal. Use the lower speed setting to reduce removal rate for more precise control. The **Model 7801** Drywall Sander has a constant speed of 2,000 RPM.

BRUSH-TYPE SKIRT

On the **Model 7800**, a brush-type skirt (A) Fig. 5, surrounds the abrasive pad. This skirt serves two purposes: (1) It extends below the surface of the abrasive pad so that it contacts the work surface first, preventing the abrasive from "gouging" the work. (2) It helps contain the drywall dust until the vacuum cleaner pulls it away.

Replace the skirt if it is damaged or if it is worn excessively. Replacement skirts are available from any Porter-Cable Service Center (see the list in back of this manual).

Since the **Model 7801** requires no vacuum cleaner, the skirt is shorter, but provides the same purpose as #1 in the preceding paragraph.

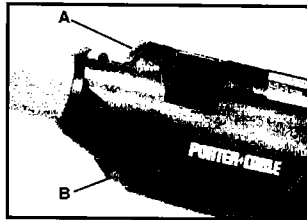


Fig. 4

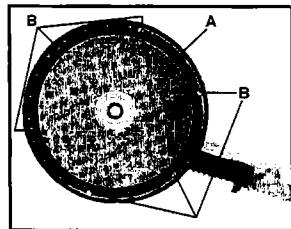


Fig. 5

CAUTION: DISCONNECT TOOL FROM POWER SOURCE.

TO REPLACE SKIRT

- (1) Remove abrasive pad (see ABRASIVE PAD REPLACEMENT).
- (2) Use phillips screwdriver to remove the six retaining screws (B) Fig. 5.
- (3) Lift the skirt out of housing.
- (4) Position new skirt to housing and install the six retaining screws. (5) Replace the abrasive pad.

SANDING DRYWALL

The Drywall Sander has a unique articulating sanding head, the head can swivel in multiple directions, allowing the abrasive pad to conform to the work surface (Figs. 6, 7, and 8). This action enables the operator to sand the top, middle, and bottom of a wall or ceiling joint without changing position.

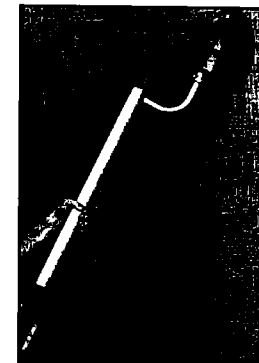


Fig. 6

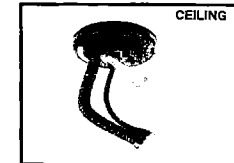


Fig. 7

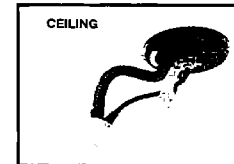


Fig. 8

1. Turn the vacuum cleaner switch "ON". (**Model 7800** only).
- CAUTION: Wear a respirator approved by NIOSH for "Dust and Mist".**
2. Turn Drywall Sander switch "ON".
3. Position the Drywall Sander lightly against the work surface. Apply just enough pressure to align the sanding head with the work surface.
4. Apply additional pressure to engage the abrasive pad on the work surface. Move the Sander in an overlapping pattern to smooth the drywall compound down to a "featheredge".

Apply **ONLY** enough pressure to keep the abrasive pad flat against the work. Excessive pressure can cause unacceptable swirl marks and unevenness in the work surface.