

Cordless Pad Sander (Model CL180PS)

INSTRUCTION MANUAL



PART NO. 912238 - 08-05-03
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 **DELTA**[®] *ShopMaster*[™]

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ESPAÑOL: PÁGINA 15

please call 1-800-223-7278 (In Canada call 1-800-463-3582).

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.

DANGER

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

WARNING

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

CAUTION

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.

WARNING


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



 **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. **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 increase the risk of electric shock.
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 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.
- 7. Use certified safety equipment.** Eye protection equipment should comply with ANSI Z87.1 standards, hearing equipment should comply with ANSI S3.19 standards, and dust mask protection should comply with MSHA/NIOSH certified respirator standards.

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.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- 4. Disconnect battery pack from tool and 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 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 shock or injury.






ADDITIONAL SPECIFIC SAFETY RULES

1. **ALWAYS** disconnect the sander from the power source before changing abrasive sheets.
2. **USE PROPER SAFETY EQUIPMENT.** Wear safety goggles to protect your eyes and wear a protective mask to minimize breathing in the fine dust created while sanding. **NOTE:** Some wood contains preservatives which can be toxic. Take extra care to prevent inhalation and skin contact when working with these materials.
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.

⚠ WARNING There are certain applications for which this tool was designed. Delta 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 Delta and we have advised you.

Technical Service Manager
Delta Machinery
4825 Highway 45 North
Jackson, TN 38305

SYMBOLS

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 ₀	no load
	alternating or direct current
	Class II Construction



..... splash-proof construction



..... watertight construction

.../min

..... revolutions or reciprocation per minute

ADDITIONAL SAFETY RULES FOR PAINT REMOVAL

⚠ WARNING

Extreme care should be taken when removing paint. The peelings, residue, and vapors of paint may contain lead, which is poisonous. Exposure to even low levels of lead can cause irreversible brain and nervous system damage; young and unborn children are particularly vulnerable.

Before beginning any paint removal process you should determine whether the paint you are removing contains lead. This can be done by your local health department or by a professional who uses a paint analyzer to check for lead.

LEAD-BASED PAINT SHOULD ONLY BE REMOVED BY A PROFESSIONAL.

Persons removing paint should follow these guidelines:

- 1. KEEP THE WORK AREA WELL VENTILATED.** Open the windows and put an exhaust fan in one of them. Be sure the fan is moving air from inside to outside.
- 2. REMOVE OR COVER** any carpets, rugs, furniture, clothing, cooking utensils and air ducts.
- 3. PLACE DROP CLOTHS** in the work area to catch any paint chips or peelings. Wear protective clothing such as extra work shirts, overalls and hats.
- 4. WORK IN ONE ROOM AT A TIME.** Furnishings should be removed or placed in the center of the room and covered. Work areas should be sealed off from the rest of the dwelling by sealing doorways with drop cloths.
- 5. CHILDREN, PREGNANT OR POTENTIALLY PREGNANT** women and nursing mothers should not be present in the work area until the work is done and all cleanup is complete.
- 6. WEAR A DUST RESPIRATOR** or a dual filter (dust and fume) respirator mask which has been approved by the Occupational Safety and Health Administration (OSHA), the National Institute of Safety and Health (NIOSH), or the United States Bureau of Mines. These masks and replaceable filters are readily available at major hardware stores. Be sure the mask fits. Beards and facial hair may keep the masks from sealing properly. Change filters often. **DISPOSABLE PAPER MASKS ARE NOT ADEQUATE.**
- 7. KEEP FOOD AND DRINK** out of the work area. Wash hands, arms, and face and rinse mouth before eating or drinking. Do not smoke or chew gum or tobacco in the work area.
- 8. CLEAN UP ALL REMOVED PAINT** and dust by wet mopping the floors. Use a wet cloth to clean all walls, sills and any other surfaces where paint or dust is clinging. **DO NOT SWEEP, DRY DUST OR VACUUM.** Use a high phosphate detergent or trisodium (TSP) to wash and mop areas.
- 9. AT THE END OF EACH WORK SESSION** put the paint chips and debris in a double plastic bag, close it with tape or twist ties and dispose of properly.
- 10. REMOVE PROTECTIVE CLOTHING** and work shoes in the work area to avoid carrying dust into the rest of the dwelling. Wash work clothes separately. Wipe shoes off with a wet rag that is then washed with the work clothes. Wash hair and body thoroughly with soap and water.

SAFETY INSTRUCTIONS FOR CHARGER AND BATTERIES

1. **SAVE THESE INSTRUCTIONS.** This manual contains important safety and operating instructions for Delta Battery Charger.
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, a Delta charger should only be used to charge a Delta battery pack. Other types of batteries may burst causing personal injury and damage. Do not charge a Delta battery pack with any other charger.
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 or W 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 (50°C) (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 40°F (4.4°C) or ABOVE 104°F(40°C). 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 Delta charger.

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

19. 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.

20. Dispose of expended batteries properly. The Delta Battery Packs contains 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 Delta 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.

REPLACEMENT PARTS

When servicing use only identical replacement parts.

FUNCTIONAL DESCRIPTION

FOREWORD

Delta Model CL180PS is a cordless finishing sander. This sander is designed for its portability and all-purpose sanding.

NOTICE: THE MANUAL COVER PHOTO ILLUSTRATES THE CURRENT PRODUCTION MODEL. ALL OTHER ILLUSTRATIONS ARE REPRESENTATIVE ONLY AND MAY NOT DEPICT THE ACTUAL COLOR, LABELING OR ACCESSORIES AND MAY BE INTENDED TO ILLUSTRATE TECHNIQUE ONLY.

CHARGING THE BATTERY

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.

CAUTION The battery charger must rest on the four pads provided on the bottom of the case. Vent slots in top and bottom of charger must not be obstructed. Do not charge battery when temperature is **BELOW 40°F (4.4°C)** or **ABOVE 104°F (40°C)**.

NORMAL CHARGING

Make sure power circuit voltage is the same as that shown on the charger specification plate. Connect charger to power source. The orange light (A) Fig. 2, should light up. This indicates the charger is ready to begin charging.

Position battery pack on charger, align rails (D) Fig. 2 and Fig. 3, on battery charger with four tabs (C) Fig. 3 on battery pack. Slide battery forward onto charger until it stops.

The red light (B) Fig. 2, should begin to glow continuously, indicating that the battery pack is receiving a “Fast Charge” (if the red light does not glow continuously, and the green light (C) Fig. 2, begins to glow: remove battery and re-insert when battery temperature is between 40°F (4.4°C) and 104°F (40°C). After approximately one hour, the “Fast Charge” indicator light (red) should go out indicating that the battery pack is fully charged and that the charger is now in a “Trickle Charge” mode (green light). 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.

Special Charge Modes: If all lights go out after the battery is inserted, the charger has entered pre-charge mode. In approximately 5-10 minutes, the orange and red lights should turn on indicating that fast charge has been initiated. If all lights remain off after 15 minutes, remove the battery. The orange light should glow. Reinsert the battery. If the orange light goes out when the battery is inserted and all lights remain off for 15 minutes, battery should be replaced.

After inserting battery, if the orange light is on while the red and green lights remain off, remove battery and re-insert. If the orange light is on while the red and green lights remain off, battery should be replaced.

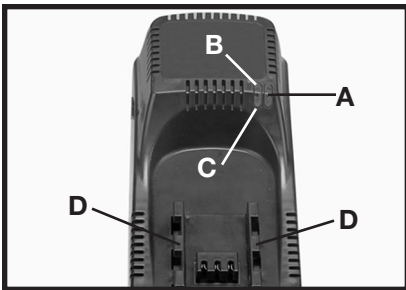


Fig. 2

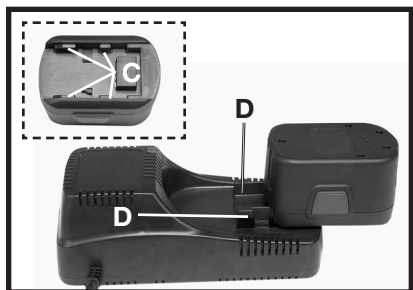


Fig. 3

INSTALLING OR REMOVING BATTERY PACK

TO INSTALL BATTERY PACK: Align rails (A) Fig. 4, on battery pack with slots on tool and push battery pack onto tool until it locks in place.

TO REMOVE BATTERY PACK: Depress the battery release button (B) Fig. 4, and pull battery pack out of tool.

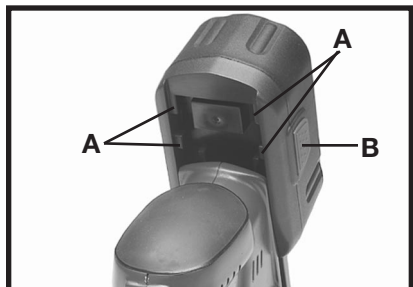


Fig. 4

ATTACHING ABRASIVE SHEET

SELECTING THE RIGHT ABRASIVE SHEET

By selecting the proper type of abrasive, the finest finishes can be attained. In general, coarser grit sizes will remove the most material and finer grit sizes will produce the best finishes.

Naturally, in all sanding operations, best results will be obtained if you select the proper size and type of abrasives. Only garnet, aluminum oxide and silicon carbide are recommended for use with finishing sanders. Flint paper is not satisfactory for machine sanding, due to its weak structure.

Before starting to work, make sure you have the right abrasive for the material on which the sander is to be used. Make sure you use the correct size abrasive paper or cloth. Cut, do not tear, the abrasive sheets to size. The Model CL180PS uses 1/3 sheet size sanding paper.

ATTACHING ABRASIVE SHEET TO SANDING PAD

1. **⚠ WARNING REMOVE BATTERY PACK.**
2. Rotate pad clamp levers (A) Fig. 5, and (B) Fig. 6, to the left.
3. Insert one end of the abrasive sheet underneath the front sanding pad clamp (A) Fig. 7.
4. Rotate front sanding pad clamp (A) Fig. 7 to the right to lock the abrasive sheet in place.
5. Stretch the abrasive sheet tightly over the pad Fig. 8, and insert the abrasive sheet underneath the rear sanding pad clamp (B) Fig. 9.

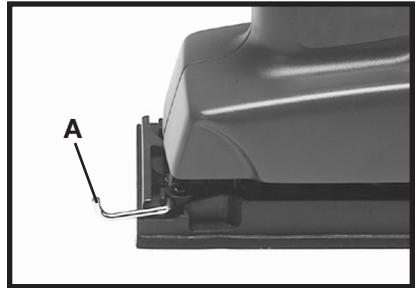


Fig. 5

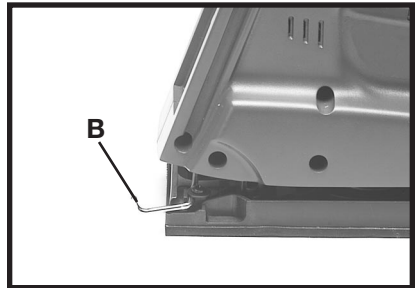


Fig. 6

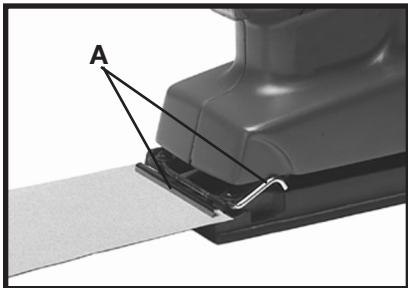


Fig. 7



Fig. 8

6. Rotate rear sanding pad clamp (B) Fig. 9 to the right to lock the abrasive sheet in place.



Fig. 9

SANDER OPERATION

TO START AND STOP SANDER

⚠WARNING THIS TOOL IS ALWAYS IN AN OPERATING CONDITION BECAUSE IT DOES NOT HAVE TO BE PLUGGED INTO AN ELECTRICAL OUTLET. KEEP HANDS, BODY, AND CLOTHING CLEAR OF THE PAD WHEN A BATTERY PACK IS INSTALLED IN THE TOOL.

⚠CAUTION MAKE SURE POWER SWITCH (A) FIG. 10, IS IN THE OFF POSITION.

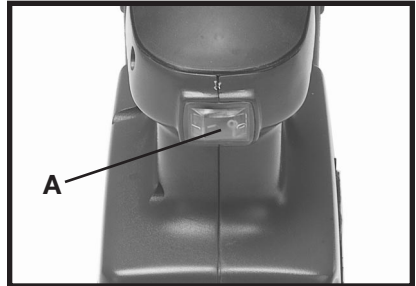


Fig.10

1. Install battery pack.
2. While holding sander firmly and off of work surface, slide switch (A), Fig. 10, to the “ON” position.
3. When you are finished sanding, lift sander up off work and slide switch (A), Fig. 10, to the “OFF” position to stop sander.

USING THE SANDER

STARTING TO WORK

This finishing sander has been designed for one or two hand operation, and can easily be guided over the work surface. The normal weight of the machine is sufficient for efficient sanding. Putting additional pressure on the machine only slows down the speed of the pad, reduces the sanding efficiency, and puts an additional burden on the motor. Also, additional pressure might cause the sander to “jump”. Always start the machine before placing it on the work surface. Once it has started, ease it down on the work surface evenly and move it slowly back and forth in wide, overlapping arcs. When you are through sanding, lift the sander off of the work before stopping the motor.

FINE FINISHING

The action of the Delta Finishing Sander causes thousands of tiny abrasive grits to move in circular orbits against the work at high speed. Each grain moves in the same direction at a constant speed so the cutting action is uniform over the entire pad surface. Crossing and re-crossing of the abrasive grits from all directions quickly levels surface irregularities to a fine, uniform smoothness. Start the work with an abrasive grit just coarse enough to remove the high spots and excessive roughness. Follow with a second sanding using a grit one or two grades finer. Continue with successively finer grits until the desired finish is obtained. **DO NOT GO FROM A COARSE GRIT TO A VERY FINE GRIT IN ONE STEP.**

Going from a coarse grit to a very fine grit in one step could make it difficult to remove swirl marks that might have been made by the coarse grit abrasive. Use the finest grits practical for the roughing operation and then finish by using successively finer grits.

REMOVING PAINT AND VARNISH

▲WARNING Read and follow all instructions in the ADDITIONAL SAFETY RULES FOR PAINT REMOVAL section of this manual.

Your sander will do a good job of removing old paint and varnish if two precautions are taken. First, be sure to use a coarse, open coat abrasive to avoid the usual clogging of the abrasive surfaces. Second keep the machine moving over new areas to avoid heating and softening the material being removed. Try to work the entire surface down at the same time by working in wide, overlapping arcs. Do not concentrate on small areas. If liquid removers or heaters are used to speed the work, be sure the surface is cool and dry and the excess material has been scraped away with a putty knife or other suitable scraping tool before applying the sander.

CABINETS AND DOORS

The orbital motion of the Delta Finishing Sander is ideally suited for finishing doors, cabinet fronts and other installations where wood grain is often perpendicular to that of a joining piece. Since the motion is circular, the machine may be moved in any direction and crossed from one part to the other without regard to direction of grain. A uniform and smooth finish will result on both parts. The same procedure may be used when evening joints in all types of cabinet work. The sander may be worked on both sides and in all directions to obtain a smooth, matching joint. By properly changing from coarser to finer grit abrasives, an excellent finish will result.

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 tool.

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 DELTA 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 Delta Service Station to be thoroughly cleaned and inspected; worn parts replaced, when necessary; relubricated with fresh lubricant, and performance tested.

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 DELTA 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 Delta Authorized Service Stations. Please visit our Web Site www.deltamachinery.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.

NOTES



Two Year Limited New Product Warranty

Delta will repair or replace, at its expense and at its option, any new Delta machine, machine part, or machine accessory which in normal use has proven to be defective in workmanship or material, provided that the customer returns the product prepaid to a Delta factory service center or authorized service station with proof of purchase of the product within two years and provides Delta with reasonable opportunity to verify the alleged defect by inspection. For all refurbished Delta product, the warranty period is 180 days. Delta may require that electric motors be returned prepaid to a motor manufacturer's authorized station for inspection and repair or replacement. Delta will not be responsible for any asserted defect which has resulted from normal wear, misuse, abuse or repair or alteration made or specifically authorized by anyone other than an authorized Delta service facility or representative. Under no circumstances will Delta be liable for incidental or consequential damages resulting from defective products. This warranty is Delta's sole warranty and sets forth the customer's exclusive remedy, with respect to defective products; all other warranties, express or implied, whether of merchantability, fitness for purpose, or otherwise, are expressly disclaimed by Delta.

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 Refacción de Partes o Servicio para su Herramienta en los Sigüientes 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

Arvada 80003 (Denver)
8175 Sheridan Blvd., Unit S
Phone: (303) 487-1809
Fax: (303) 487-1868

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)
400 South Rohlwing Rd.
Phone: (630) 424-8805
Fax: (630) 424-8895

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
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Fax: (816) 221-2897

St. Louis 63119
7574 Watson Road
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175-25 Horace Harding Expwy.
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