

# 5" Bench Grinder (Model 23-580)



The Serial No. and Model No. plate is attached to the front of the motor. Locate this plate and record the Serial No. and Model No. in your manual for future reference.

SERIAL NO. \_\_\_\_\_

MODEL NO. \_\_\_\_\_

DATED 9-22-95

PART NO. 1340289

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# SAFETY RULES

Woodworking can be dangerous if safe and proper operating procedures are not followed. As with all machinery, there are certain hazards involved with the operation of the product. Using the machine with respect and caution will considerably lessen the possibility of personal injury. However, if normal safety precautions are overlooked or ignored, personal injury to the operator may result. Safety equipment such as guards, push sticks, hold-downs, featherboards, goggles, dust masks and hearing protection can reduce your potential for injury. But even the best guard won't make up for poor judgment, carelessness or inattention. Always use common sense and exercise caution in the workshop. If a procedure feels dangerous, don't try it. Figure out an alternative procedure that feels safer. REMEMBER: Your personal safety is your responsibility.

This machine was designed for certain applications only. Delta Machinery strongly recommends that this machine not be modified and/or used for any application other than that for which it was designed. If you have any questions relative to a particular application, DO NOT use the machine until you have first contacted Delta to determine if it can or should be performed on the product.

**DELTA INTERNATIONAL MACHINERY CORP.**  
**MANAGER OF TECHNICAL SERVICES**  
**246 ALPHA DRIVE**  
**PITTSBURGH, PENNSYLVANIA 15238**  
(IN CANADA: 644 IMPERIAL ROAD, GUELPH, ONTARIO N1H 6M7)

## WARNING: FAILURE TO FOLLOW THESE RULES MAY RESULT IN SERIOUS PERSONAL INJURY

- 1. FOR YOUR OWN SAFETY, READ INSTRUCTION MANUAL BEFORE OPERATING THE TOOL.** Learn the tool's application and limitations as well as the specific hazards peculiar to it.
- 2. KEEP GUARDS IN PLACE** and in working order.
- 3. ALWAYS WEAR EYE PROTECTION.**
- 4. GROUND ALL TOOLS.** If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle. If an adapter is used to accommodate a two-prong receptacle, the adapter lug must be attached to a known ground. Never remove the third prong.
- 5. REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it "on."
- 6. KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents.
- 7. DON'T USE IN DANGEROUS ENVIRONMENT.** Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well-lighted.
- 8. KEEP CHILDREN AND VISITORS AWAY.** All children and visitors should be kept a safe distance from work area.
- 9. MAKE WORKSHOP CHILDPROOF** - with padlocks, master switches, or by removing starter keys.
- 10. DON'T FORCE TOOL.** It will do the job better and be safer at the rate for which it was designed.
- 11. USE RIGHT TOOL.** Don't force tool or attachment to do a job for which it was not designed.
- 12. WEAR PROPER APPAREL.** No loose clothing, gloves, neckties, rings, bracelets, or other jewelry to get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.
- 13. ALWAYS USE SAFETY GLASSES.** Wear safety glasses (must comply with ANSI Z87.1). Everyday eyeglasses only have impact resistant lenses; they are not safety glasses. Also use face or dust mask if cutting operation is dusty.
- 14. SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and frees both hands to operate tool.
- 15. DON'T OVERREACH.** Keep proper footing and balance at all times.
- 16. MAINTAIN TOOLS IN TOP CONDITION.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 17. DISCONNECT TOOLS** before servicing and when changing accessories such as blades, bits, cutters, etc.
- 18. USE RECOMMENDED ACCESSORIES.** The use of accessories and attachments not recommended by Delta may cause hazards or risk of injury to persons.
- 19. REDUCE THE RISK OF UNINTENTIONAL STARTING.** Make sure switch is in "OFF" position before plugging in power cord.
- 20. NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.
- 21. CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to ensure that it will operate properly and perform its intended function - check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.
- 22. DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.
- 23. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF.** Don't leave tool until it comes to a complete stop.
- 24. DRUGS, ALCOHOL, MEDICATION.** Do not operate tool while under the influence of drugs, alcohol or any medication.
- 25. MAKE SURE TOOL IS DISCONNECTED FROM POWER SUPPLY** while motor is being mounted, connected or reconnected.

## ADDITIONAL SAFETY RULES FOR GRINDERS

1. **WARNING:** Do not operate your grinder until it is completely assembled and installed according to the instructions.
2. **IF YOU ARE NOT** thoroughly familiar with the operation of grinders, obtain advice from your supervisor, instructor or other qualified person.
3. **ALWAYS** use grinding wheels that have a bore exactly equal to the 1/2" arbor of the grinder. **NEVER** attempt to machine an undersize wheel to fit an arbor.
4. **NEVER** use a chipped or cracked grinding wheel. **ALWAYS** inspect each wheel before mounting on the grinder. **REPLACE A CRACKED WHEEL IMMEDIATELY.**
5. **ALWAYS** maintain a distance of 1/8" or less between the grinding wheel and the tool rest. Adjust the tool rests as the grinding wheels decrease in size with use.
6. **SECURELY** tighten tool rests so they cannot shift position while in use.
7. **NEVER** grind on a cold wheel. The grinder should always be started and run at idle speed for one full minute before applying work.
8. **NEVER** grind on the side of the wheel. **ALWAYS** grind on the face of the wheel only.
9. **NEVER** apply coolant directly to a grinding wheel. Coolant can weaken the bonding strength of the wheel and cause it to fail. Dip the workpiece into water to cool it.
10. **SPARKS ARE A HAZARD! NEVER** grind near flammable gas or liquids.
11. **ALWAYS MAKE SURE** the wheel guards and eye shields are in place, properly adjusted and secured.
12. **KEEP** the spark guards close to the wheel and re-adjust them as the wheel wears.
13. **MAKE CERTAIN** the blotter and wheel flanges are used to mount the grinding wheels onto the grinder shaft.
14. **THE USE** of attachments and accessories not recommended by Delta may result in the risk of injuries.
15. **STAND** to one side of the wheel when turning on the power.
16. **AVOID** awkward hand positions where a sudden slip could cause a hand to move into the grinding wheel.
17. **ALWAYS** keep hands and fingers away from the grinding wheel.
18. **NEVER** start the grinder with the workpiece pressed against the grinding wheel.
19. **DRESS** the wheel on the face only. Dressing the side of the wheel can cause it to become too thin for safe use.
20. **DO NOT** use a wheel that vibrates. Dress the wheel, replace the wheel, or replace the shaft bearings, if worn.
21. **GRINDING CREATES HEAT.** Do not touch the workpiece until you are sure it has cooled sufficiently.
22. **ALWAYS** use grinding wheels that are suitable for the speed of the grinder. **NEVER** use a wheel that is rated lower than 3600 RPM.
23. **ALWAYS** keep guards in place when using a wire brush or buffing wheel in place of the standard grinding wheel.
24. **SHOULD** any part of your grinder be missing, damaged, or fail in any way, or any electrical component fail to perform properly, shut off switch and remove plug from power supply outlet. Replace missing, damaged or failed parts before resuming operation.
25. **ADDITIONAL** information regarding the safe and proper operation of this product is available from the National Safety Council, 1121 Spring Lake Drive, Itasca, IL 60143-3201 in the Accident Prevention Manual for Industrial Operations and also in the Safety Data Sheets provided by the NSC. Please also refer to the American National Standards Institute ANSI B7.1 Safety Requirements for the use, care, and protection of abrasive wheels; ANSI B11.9 Safety Requirements for the construction, care and use of grinding machines; and the U.S. Department of Labor OSHA 1910.215 Regulations for Abrasive Wheel Machinery.
26. **SAVE THESE INSTRUCTIONS.** Refer to them often and use them to instruct others.

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## UNPACKING AND CLEANING

Your new grinder is shipped complete in one carton. Carefully unpack the grinder and all loose items from the carton. Remove the protective coating from all unpainted parts. This coating may be removed with a soft cloth moistened with kerosene (do not use acetone, gasoline, or lacquer thinner for this purpose).

**WARNING: FOR YOUR OWN SAFETY, DO NOT CONNECT THE GRINDER TO THE POWER SOURCE UNTIL THE MACHINE IS COMPLETELY ASSEMBLED AND YOU HAVE READ AND UNDERSTAND THE ENTIRE INSTRUCTION MANUAL**

## MONTAJE DE LOS PORTAHERRAMIENTAS

Ensamble ambos portaherramientas, de los cuales aparece uno en (A) Fig. 2, al interior de cada protector de rueda, utilizando los dos tornillos y arandelas (B). El portaherramientas es ajustable para que pueda ser colocado lo más cerca posible a la rueda rectificadora, proporcionando apoyo máximo a la pieza siendo rectificada. Debe mantenerse siempre una distancia de 1/8 pulg. o menos entre la rueda de rectificación y el portaherramientas. Mientras que la rueda de rectificación se desgasta a un diámetro más reducido, vuelva a ajustar el portaherramientas más cerca a la rueda. El portaherramientas (A) debe ser ajustado de manera que quede fijado un poco más abajo del centro de la rueda. Esta es la posición más práctica y segura para las labores generales. La rectificación a mano libre sin el uso del portaherramientas debe hacerse siempre en el cuarto inferior de la rueda.

## MONTAJE DE LOS PROTECTORES DE CHISPAS

El protector de chispas (A) Fig. 3, debe ser montado a la parte superior de cada protector de rueda, utilizando para ello el tornillo y la arandela (B) en la manera ilustrada. El protector de chispas (A) debe ser ajustado lo más cerca posible a la rueda rectificadora para que las chispas jamás hagan contacto con la mano del operario. Al paso que se vayan desgastando las ruedas, el protector de chispas (A) debe ser ajustado también.

## MONTAJE DE LOS ESCUDOS OCULARES

Su rectificadora ha sido suministrada con dos escudos oculares de seguridad para la protección del operario. Para ensamblar los escudos oculares, haga lo siguiente:

1. Coloque el escudo (A) Fig. 4 bajo el borde del marco (B). Alinee los dos agujeros en el escudo con los dos agujeros en el marco y únalos mediante el uso de tornillos (C), arandelas (D) y tuercas (E). Ensamble el otro escudo del mismo modo.

2. Inserte el extremo corto de la vara de montaje (F) Fig. 5 en el agujero del marco y afíncelo en su sitio con el tornillo (G) y la tuerca y arandela (H).

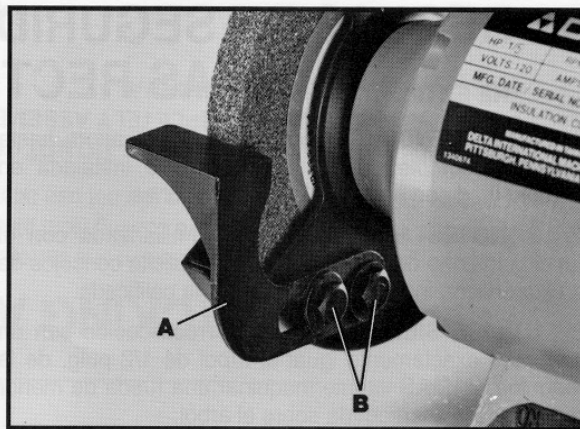


Fig. 2

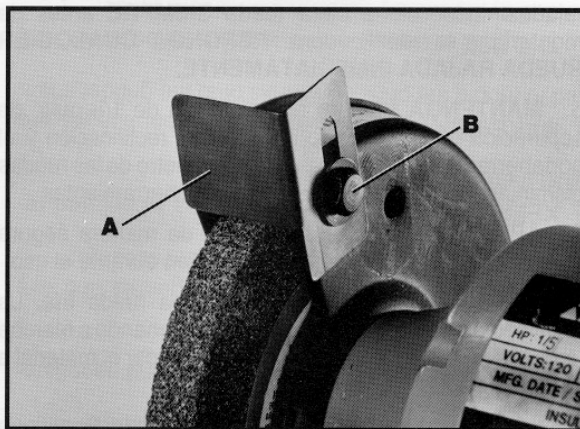


Fig. 3

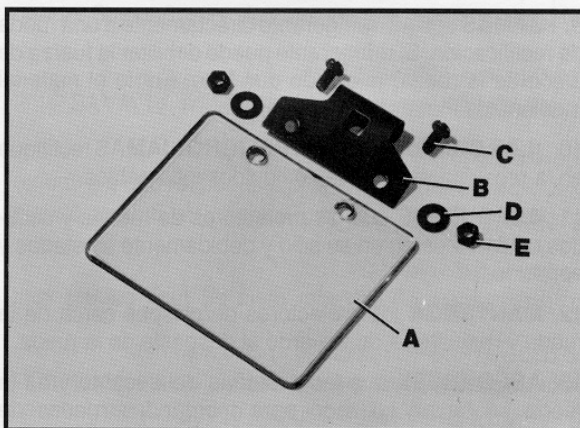


Fig. 4

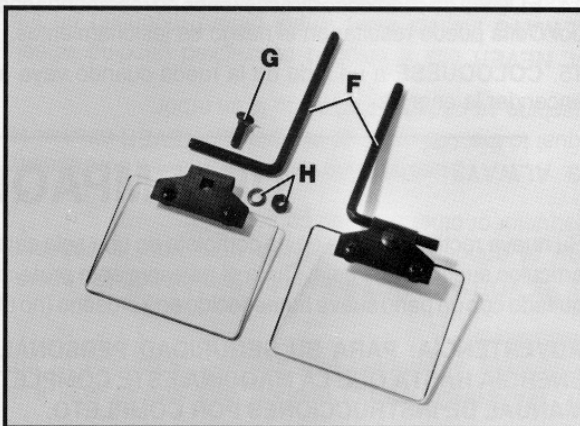


Fig. 5

3. To assemble the eyeshield to the grinder, insert rod (F) Fig. 6, into bracket (J) and fasten in place using lock washer and locking knob (K). The eyeshield (A) is fully adjustable so it can be put in any position by moving the shield (A) or loosening locking knob (K) and moving rod (F).

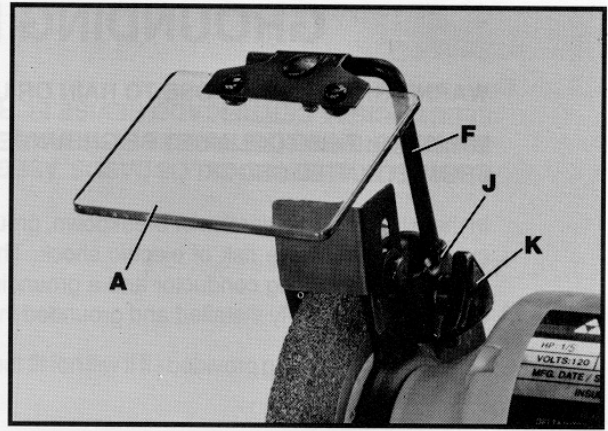


Fig. 6

## GRINDING WHEELS

**WARNING: THE USE OF ACCESSORIES AND ATTACHMENTS NOT RECOMMENDED BY DELTA MAY RESULT IN RISK OF INJURIES.** Grinding wheels used with this grinder should be rated for 3600 RPM or higher and be 5" in diameter with 1/2" arbor holes.

Two aluminum oxide grinding wheels are supplied with your grinder; one 36 grit and one 60 grit. For best grinding results, and to maintain good balance, always keep the wheels properly dressed. Do not force the work against a cold wheel. The grinding wheel should always be run at idle speed for one full minute before applying work. It is recommended that only balanced wheels be used with your grinder. The use of balanced wheels adds years to the life of the bearings on the grinder and by eliminating the most common source of vibration, more accurate work is accomplished.

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## FASTENING GRINDER TO SUPPORTING SURFACE

**IF DURING OPERATION THERE IS ANY TENDENCY FOR THE GRINDER TO TIP OVER, SLIDE OR WALK, THE GRINDER MUST BE SECURED TO THE SUPPORTING SURFACE.**

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## CONNECTING GRINDER TO POWER SOURCE

### POWER CONNECTIONS

A separate electrical circuit should be used for your tools. This circuit should not be less than #12 wire and should be protected with a 20 Amp fuse. Have a certified electrician replace or repair a worn cord immediately. Before connecting the motor to a power line, make sure the switch is in the "OFF" position and be sure that the electric current is of the same characteristics as stamped on the motor nameplate. Running on low voltage will damage the motor.

**WARNING: DO NOT EXPOSE THE TOOL TO RAIN OR OPERATE THE TOOL IN DAMP LOCATIONS.**

### MOTOR SPECIFICATIONS

Your grinder is wired for 110-120 volt, 60 HZ alternating current. Before connecting the grinder to the power source, make sure the switch is in the "OFF" position.

# GROUNDING INSTRUCTIONS

**WARNING: DO NOT EXPOSE TO RAIN OR USE IN DAMP LOCATIONS.**

**WARNING: THIS TOOL MUST BE GROUNDED WHILE IN USE TO PROTECT THE OPERATOR FROM ELECTRIC SHOCK.**

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided - if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in risk of electric shock. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded. Use only 3-wire extension cords that have 3-prong grounding type plugs and 3-hole receptacles that accept the tool's plug, as shown in Fig. 7.

Repair or replace damaged or worn cord immediately.

This tool is intended for use on a circuit that has an outlet and a plug that looks like the one shown in Fig. 7. A temporary adapter, which looks like the adapter illustrated in Fig. 8, may be used to connect this plug to a 2-pole receptacle, as shown in Fig. 8, if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. **THIS ADAPTER IS NOT APPLICABLE IN CANADA.** The green-colored rigid ear, lug, and the like, extending from the adapter must be connected to a permanent ground, such as a properly grounded outlet box, as shown in Fig. 8.

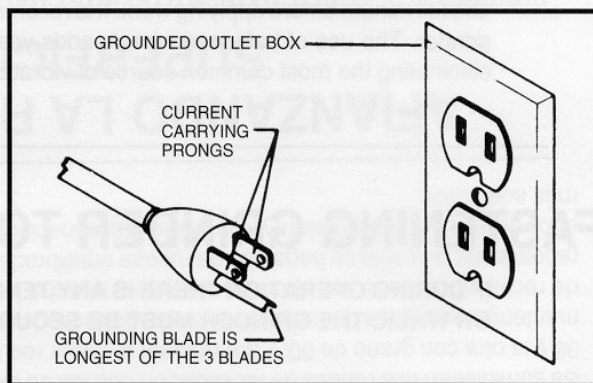


Fig. 7

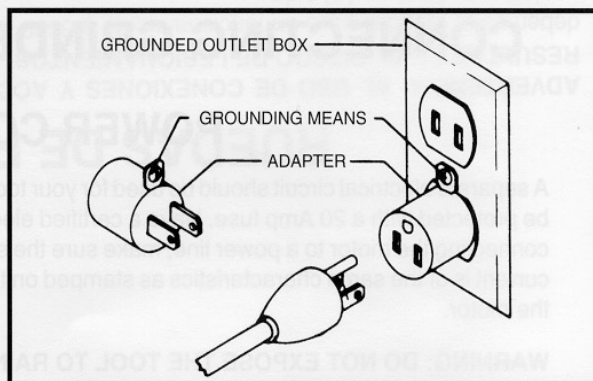


Fig. 8

**CAUTION: IN ALL CASES, MAKE CERTAIN THE RECEPTACLE IN QUESTION IS PROPERLY GROUNDED. IF YOU ARE NOT SURE HAVE A CERTIFIED ELECTRICIAN CHECK THE RECEPTACLE.**

## EXTENSION CORDS

Use proper extension cords. Make sure your extension cord is in good condition and is a 3-wire extension cord which has a 3-prong grounding type plug and a 3-pole receptacle which will accept the tool's plug. When using an extension cord, be sure to use one heavy enough to carry the current of the grinder. An undersized cord will cause a drop in line voltage, resulting in loss of power and overheating. Fig. 9, shows the correct gage to use depending on the cord length. If in doubt, use the next heavier gage. The smaller the gage number, the heavier the cord.

TOTAL LENGTH OF CORD IN FEET	GAGE OF EXTENSION CORD TO USE
0 - 25	18 AWG
26 - 100	16 AWG
101 - 150	14 AWG

Fig. 9

## SWITCH

The switch (A) Fig. 10, is located on the front of the grinder. To turn the grinder "ON" push the left hand portion of the switch, and to turn the grinder "OFF" push the right hand portion of the switch.

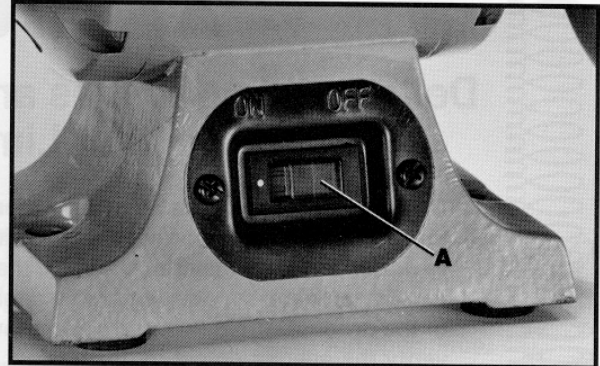


Fig. 10

## DRESSING A GRINDING WHEEL

When dressing a grinding wheel use a suitable silicon carbide stick type dresser, as shown in Fig. 11. Bring the dresser forward on the tool rest until it just touches the high point of the face of the wheel and dress the wheel by moving the dresser back and forth. Repeat this operation until the face of the wheel is clean and the corners of the wheel are square.

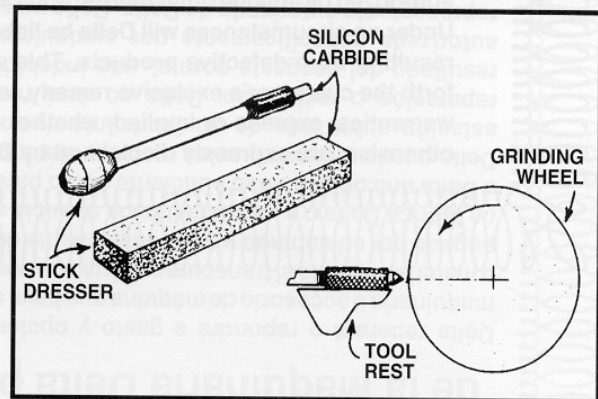


Fig. 11

## CHANGING WHEELS

When changing wheels, simply remove the screws attaching the side covers to the grinder and remove the side cover. To prevent shaft rotation, place a wedge between the grinding wheel and the wheel guard. Facing the grinder, turn the arbor nut down to loosen and up to tighten.

**IMPORTANT: DO NOT OVERTIGHTEN WHEEL NUTS WHEN INSTALLING THE WHEELS.**



## Delta Building Trades and Home Shop Machinery Two Year Limited Warranty

Delta will repair or replace, at its expense and at its option, any 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. 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.

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# NOTES

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

Parts and Repair Service for Porter-Cable • Delta Machinery are Available at These Locations  
(Obtenga Refaccion de Partes o Servicio para su Herramienta en los Siguietes Centros de Porter-Cable • Delta)

### 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

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Phone: (510) 357-9762  
Fax: (510) 357-7939

### COLORADO

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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

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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

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7397-102 Washington Blvd.  
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Fax: (410) 799-9398

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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

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30475 Stephenson Highway  
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Fax: (248) 597-5004

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Phone: (763) 561-9080  
Fax: (763) 561-0653

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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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175-25 Horace Harding Expwy.  
Phone: (718) 225-2040  
Fax: (718) 423-9619

### NORTH CAROLINA

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Phone: (704) 841-1176  
Fax: (704) 708-4625

### OHIO

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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

### OREGON

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4916 NE 122 nd Ave.  
Phone: (503) 252-0107  
Fax: (503) 252-2123

### PENNSYLVANIA

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520 North York Road  
Phone: (215) 658-1430  
Fax: (215) 658-1433

### TEXAS

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

Houston 77038  
4321 Sam Houston Parkway,  
West  
Suite 180  
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 **800-438-2486** 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 **800-223-7278** 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 **800-438-2486** 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 **800-223-7278** y le dirigirán al Centro de Servicio de Fábrica Porter-Cable-Delta más cercano.

## CANADIAN PORTER-CABLE • DELTA SERVICE CENTERS

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Phone: (403) 735-6166  
Fax: (403) 735-6144

### BRITISH COLUMBIA

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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  
Fax: (519) 767-4131

### QUÉBEC

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St-Jean Baptiste, Suite 160  
Québec, Québec  
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Phone: (418) 877-7112  
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