

1" Belt Sander

(Model 31-050)

INSTRUCTION MANUAL



DATED 8-16-95

PART NO. 1340229

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DELTA

TABLE OF CONTENTS

SAFETY RULES FOR ALL TOOLS	3
ADDITIONAL SAFETY RULES FOR 1" BELT SANDER	4
UNPACKING	5
ASSEMBLING TABLE TO SANDER	5
FASTENING SANDER TO SUPPORTING SURFACE	6
CONNECTING SANDER TO POWER SOURCE	
Power Connections	7
Motor Specifications	7
Grounding Instructions	7
Extension Cords	8
STARTING AND STOPPING SANDER	8
LOCKING SWITCH IN THE "OFF" POSITION	8
TRACKING THE BELT	8
TABLE ADJUSTMENTS	9
PLATEN	9
REMOVING AND INSTALLING ABRASIVE BELTS	10
TYPICAL OPERATIONS	11-12



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.

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.
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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.
26. **WARNING:** The dust generated by certain woods and wood products can be injurious to your health. Always operate machinery in well ventilated areas and provide for proper dust removal. Use wood dust collection systems whenever possible.

ADDITIONAL SAFETY RULES FOR 1" BELT SANDER

1. **WARNING:** Do not operate your machine until it is completely assembled and installed according to the instructions.

2. **WARNING:** The dust generated by certain woods and wood products can be injurious to your health. Always operate machinery in well-ventilated areas and provide for proper dust removal. Use wood dust collection systems whenever possible.

3. **WARNING:** The 1" Belt Sander can be used for processing wood and metal products. However, combining both wood dust and metal filings can create a **FIRE HAZARD**. Make certain that dust collector is free of wood dust deposits before processing metal products.

4. **IF YOU ARE NOT** thoroughly familiar with the operation of Belt Sanders, obtain advice from your supervisor, instructor or other qualified person.

5. **THIS MACHINE** is intended for indoor use only.

6. **IF THERE IS ANY TENDENCY** for the machine to tip over or move during certain operations such as when sanding long or heavy workpieces, the machine must be securely fastened to a supporting surface.

7. **MAKE SURE** the sanding belt is tracking correctly in order that it does not run off the pulleys.

8. **MAKE SURE** the sanding belt is not torn or loose.

9. **ALWAYS** hold the work firmly when sanding.

10. **ALWAYS** maintain minimum clearance of 1/16" or less between the table and sanding belt.

11. **NEVER** wear gloves or hold the work with a rag when sanding.

12. **DO NOT** sand pieces of material that are too small to be safely supported.

13. **AVOID** awkward hand positions where a sudden slip could cause a hand to move into the sanding belt.

14. **ALWAYS** remove scrap pieces and other objects from the table before turning the machine "ON."

15. **NEVER** perform layout, assembly or set-up work on the table while the sander is operating.

16. **ALWAYS** turn the machine "OFF" and disconnect the cord from the power source before installing or removing accessories.

17. **NEVER** leave the machine work area when the power is "ON" or before the machine has come to a complete stop.

18. **SUPPORT** workpiece with platen or worktable.

19. **ALWAYS** wear eye protection when operating the sander.

20. **THE USE** of attachments and accessories not recommended by Delta may result in the risk of injuries.

21. **SHOULD** any part of your sander be missing, damaged, or fail in any way, or any electrical components fail to perform properly, shut off switch and remove plug from power supply outlet. Replace missing, damaged or failed parts before resuming operation.

22. **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 O1.1 Safety Requirements for Woodworking Machinery and the U.S. Department of Labor OSHA 1910.213 Regulations.

23. **SAVE THESE INSTRUCTIONS.** Refer to them often and use them to instruct others.

UNPACKING

The 1" Belt Sander is shipped complete in one carton. Carefully unpack the machine and all loose items from the carton. If any parts are missing, do not attempt to operate your sander until the missing parts are obtained and installed correctly.

WARNING: FOR YOUR OWN SAFETY, DO NOT CONNECT THE SANDER TO THE POWER SOURCE UNTIL THE MACHINE IS COMPLETELY ASSEMBLED AND YOU HAVE READ AND UNDERSTOOD THE ENTIRE OWNERS MANUAL.

ASSEMBLING TABLE TO SANDER

1. Locate the 1-1/8" long screw (A) Fig. 2, flat washer (B), and table locking handle assembly (C), (D) and (E). **NOTE:** The table locking assembly (C, D and E) are shipped assembled. For ease in assembling table to sander, remove screw and spring (E), and handle (D) from locking stud (C).

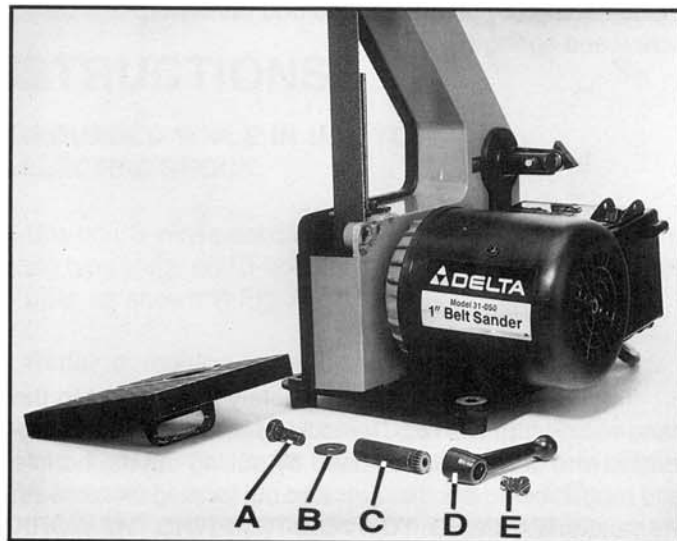


Fig. 2

2. Place table (F) Fig. 3, on sander by threading belt and platen (G) through opening (H) in table, as shown.

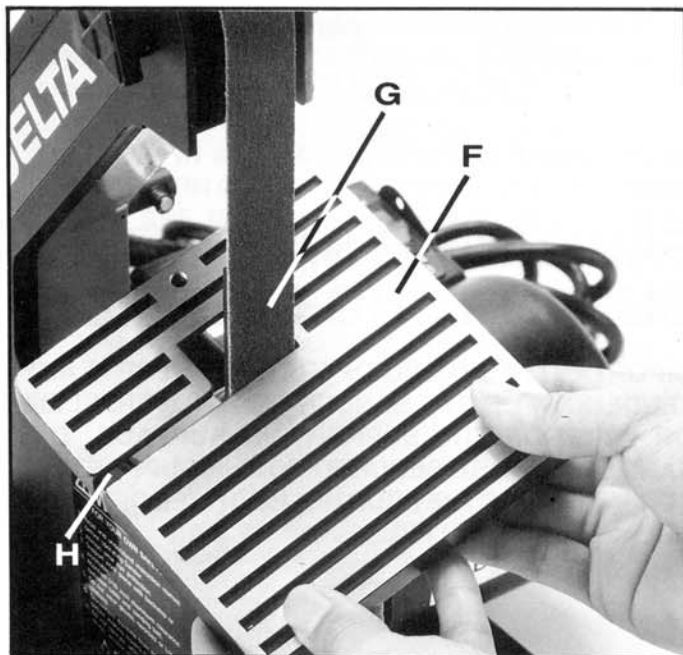


Fig. 3

3. Insert 1-1/8" long screw (A) Fig. 4, into hole in sander frame and through slot (J) underneath table and fasten using flat washer (B) and stud (C), as shown. Tighten the stud (C) by hand.

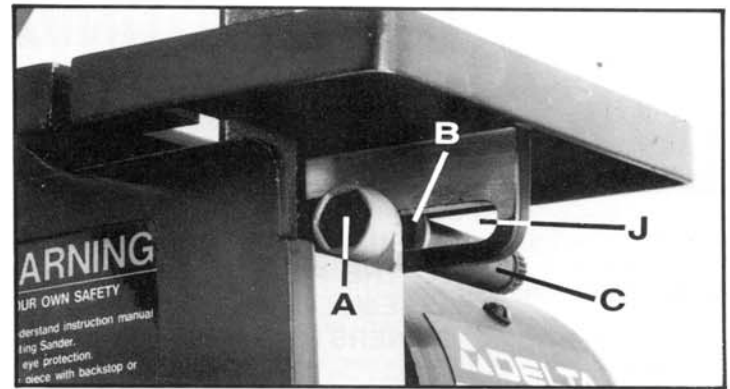


Fig. 4

4. Flat washer (B) and stud (C) are also shown in Fig. 5. Place handle (D) on end of stud and fasten in place using screw and spring (E) Fig. 5.

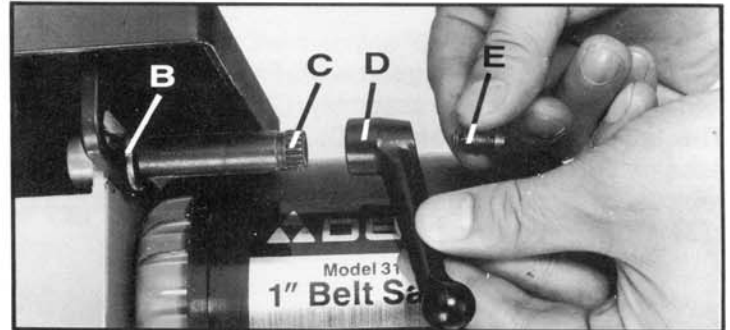


Fig. 5

5. The table (F) is shown completely assembled to the sander in Fig. 6. **NOTE:** The locking handle (D) is spring-loaded and can be repositioned by pulling out the handle and repositioning it on the serrated nut located underneath the handle. **WARNING: TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE TABLE AND SANDING BELT, THE TABLE EDGE (G) SHOULD BE POSITIONED A MAXIMUM OF 1/16 INCH FROM SANDING BELT (H), AS SHOWN IN FIG. 6.**

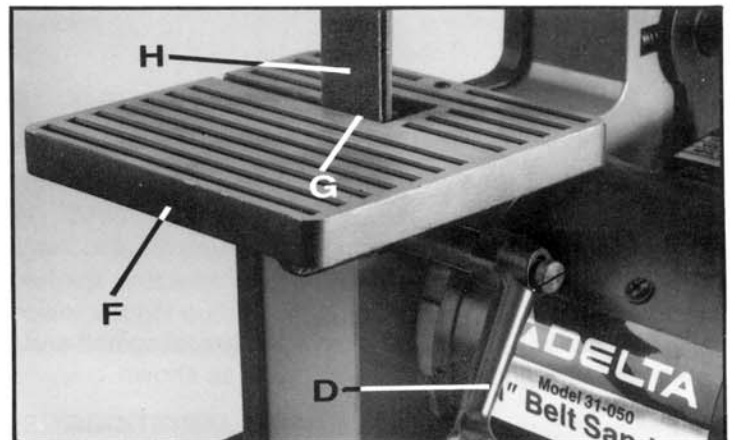


Fig. 6

FASTENING SANDER TO SUPPORTING SURFACE

IMPORTANT: IF DURING OPERATION THERE IS ANY TENDENCY FOR THE SANDER TO TIP OVER, SLIDE OR WALK ON THE SUPPORTING SURFACE, THE SANDER MUST BE SECURED TO THE SUPPORTING SURFACE USING THE FOUR HOLES, THREE OF WHICH ARE SHOWN AT (A) FIG. 7.



Fig. 7

CONNECTING SANDER 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 Sander is wired for 110-120 volt, 60 HZ alternating current. Before connecting the sander to the power source, make sure the switch is in the "OFF" position. The motor provides a belt speed of 3150 surface feet per minute.

GROUNDING INSTRUCTIONS

CAUTION: 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. 8.

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. 8. A temporary adapter, which looks like the adapter illustrated in Fig. 9, may be used to connect this plug to a 2-pole receptacle, as shown in Fig. 9, 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. 9.

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.

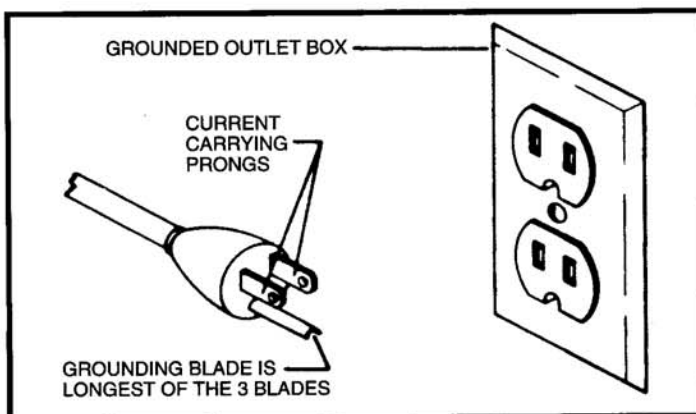


Fig. 8

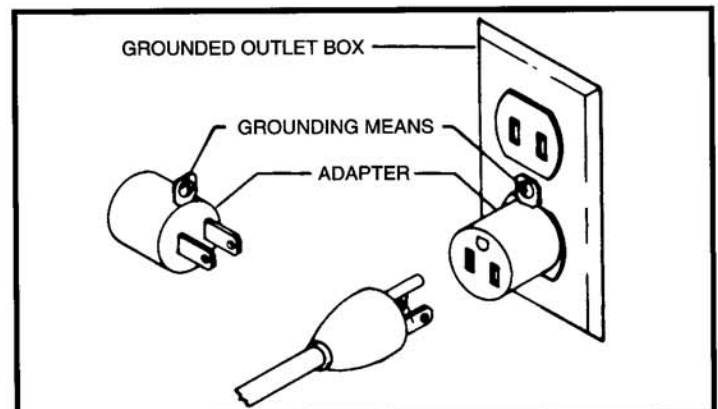


Fig. 9

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 sander. An undersized cord will cause a drop in line voltage, resulting in loss of power and overheating. Fig. 9A, 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. 9A

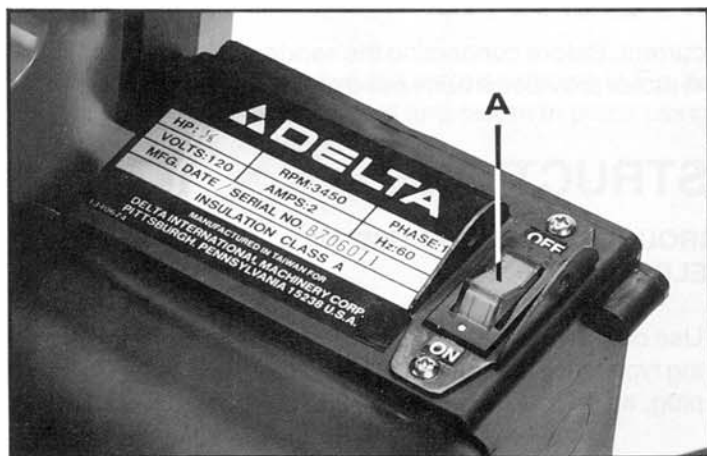


Fig. 10

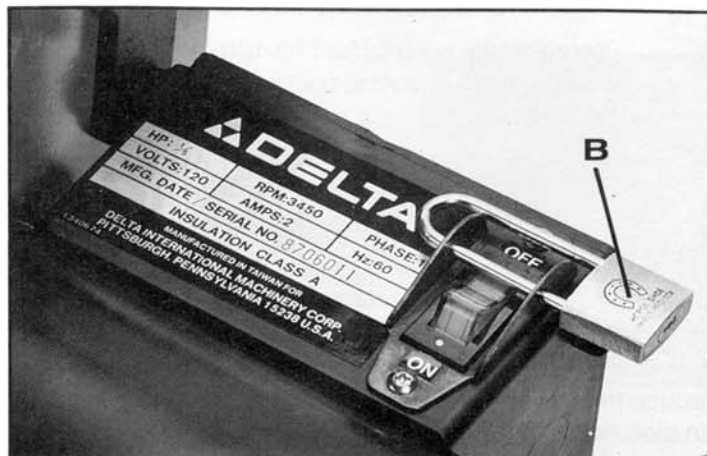


Fig. 11

STARTING AND STOPPING SANDER

The switch (A) Fig.10, is located on the top of the switch box. To start the sander, push the switch to the "ON" position. To stop the sander, push the switch to the "OFF" position.

LOCKING SWITCH IN THE "OFF" POSITION

We suggest that when the sander is not in use, the switch be locked in the "OFF" position to prevent unauthorized use of the machine, using a padlock (B), as shown in Fig. 11.

TRACKING THE BELT

The belt tracking adjustment is set at the factory so that the abrasive belt will run true on the pulleys. If, however, the belt should lead to one side or the other on the pulleys, an adjustment can be made by turning the tracking knob (A) Fig. 12. Turning the knob (A) clockwise will move the belt to the right when facing the sander. Turning the knob (A) counterclockwise will move the belt to the left. **THIS ADJUSTMENT IS USUALLY VERY SLIGHT.**

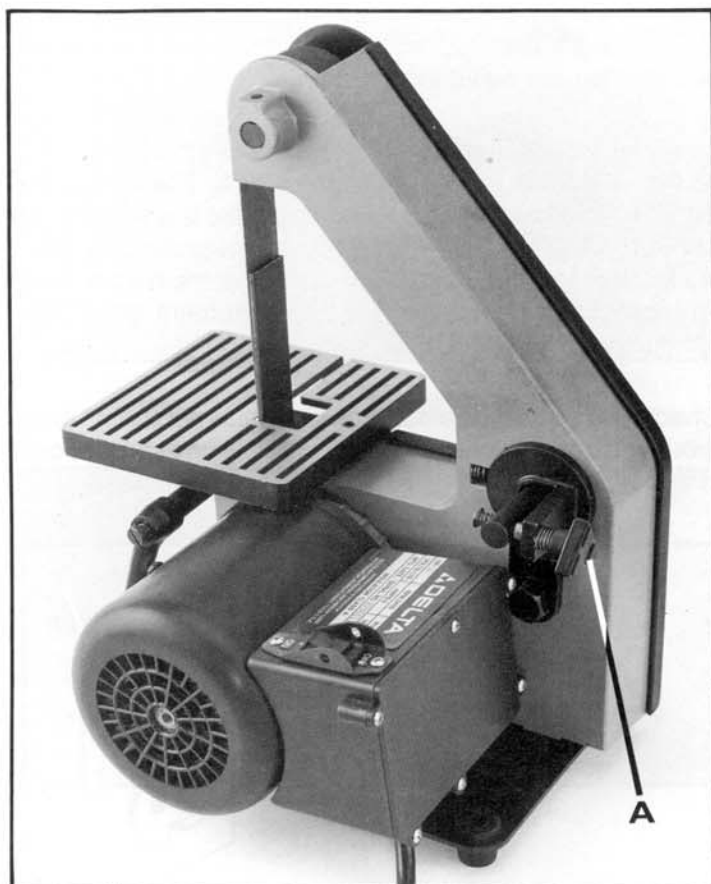


Fig. 12

TABLE ADJUSTMENTS

For most sanding operations, the table should be set at a 90 degree angle to the sanding belt. A positive stop is provided with your sander to insure fast positioning of the table at 90 degrees to the belt. To adjust the positive stop, proceed as follows:

1. Loosen the table locking lever and tilt the table to the rear as far as possible.
2. Using a combination square, place one end of the square on the table with the other end against the sanding belt, as shown in Fig. 13, and check to see if the table is 90 degrees to the belt.
3. If the table surface is not 90 degrees to the belt, turn adjusting screw (A) with wrench (B) Fig. 13, until the table is 90 degrees to belt when the table is tilted all the way to the rear.
4. The table can be tilted to the front as shown in Fig. 14, by loosening table locking handle (C) Fig. 14, tilting the table to the desired angle and tighten the table locking handle (C). **WARNING: TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE TABLE AND SANDING BELT, THE TABLE EDGE (D) SHOULD BE POSITIONED A MAXIMUM OF 1/16 INCH FROM SANDING BELT (E), AS SHOWN IN FIG. 14.**

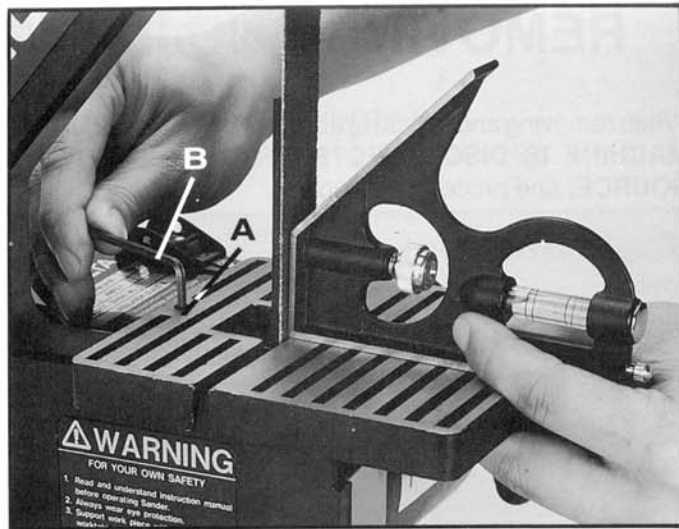


Fig. 13

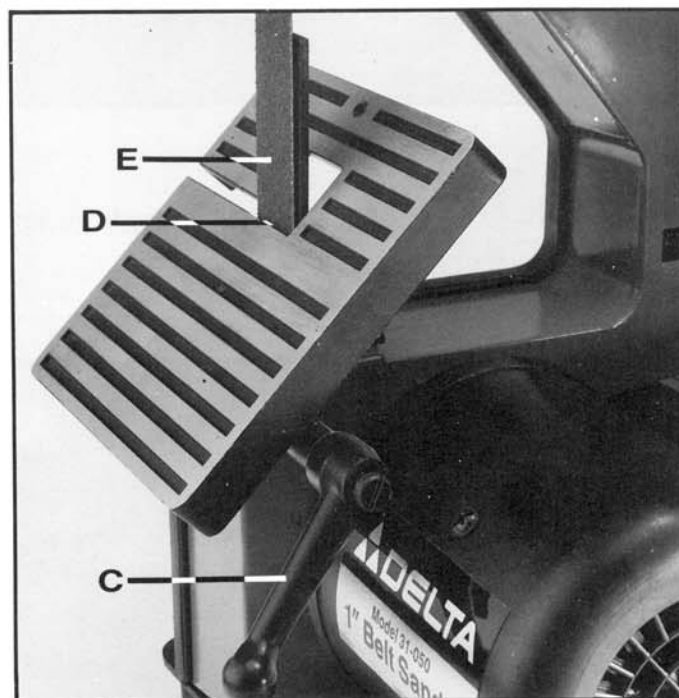


Fig. 14

PLATEN

The platen (A) Fig. 15, is constructed of heavy steel to properly support the work when sanding. The platen (A) should be adjusted so it is almost touching the back of the sanding belt by loosening the two screws (B), adjusting the platen, and tightening the two screws (B).

To remove the platen for operations such as strapping, polishing or other special operations, remove two screws (B) Fig. 15, and platen (A).

NOTE: FOR CLARITY, FIG. 15 IS ILLUSTRATED WITH THE TABLE REMOVED.

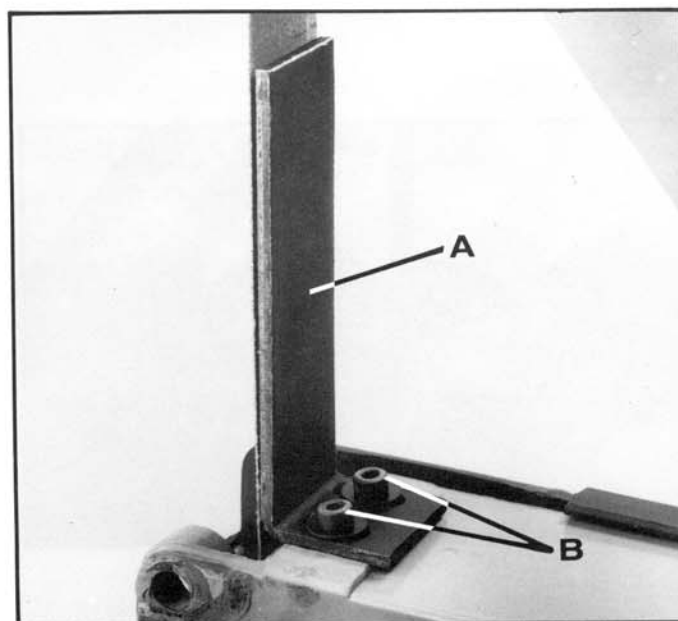


Fig. 15

REMOVING AND INSTALLING ABRASIVE BELTS

When removing and installing abrasive belts, **MAKE SURE MACHINE IS DISCONNECTED FROM THE POWER SOURCE**, and proceed as follows:

1. Remove cover lock knob (A) Fig. 16, and remove side cover (B).

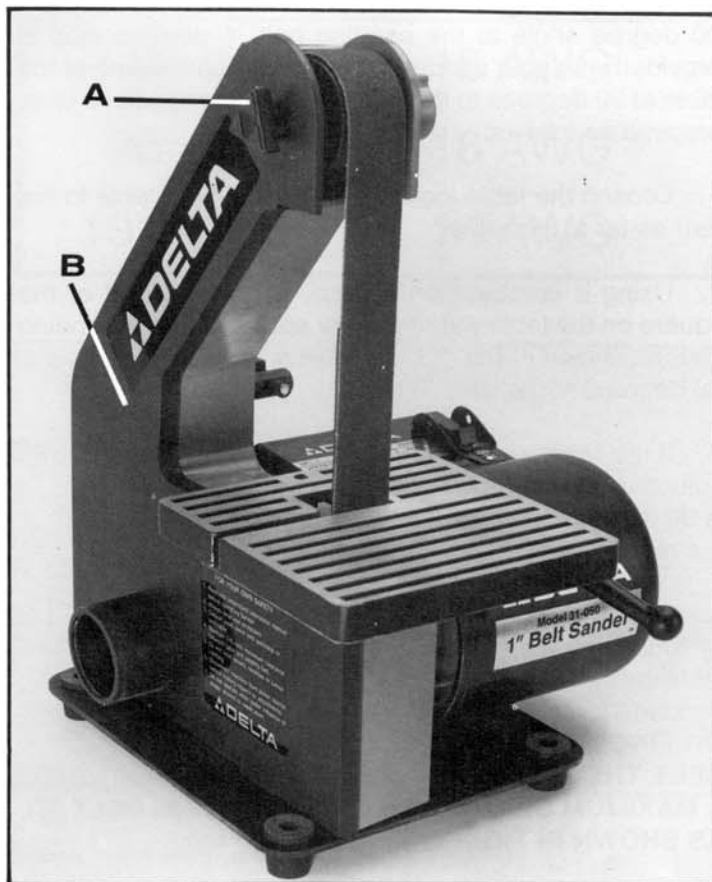


Fig. 16

2. Depress tracking knob (C) Fig. 17, to release belt tension and remove belt (D) from the three wheels (E), as shown.

3. Install new belt and replace side cover. Check belt tracking by referring to the section **"TRACKING THE BELT,"** and adjust if necessary.

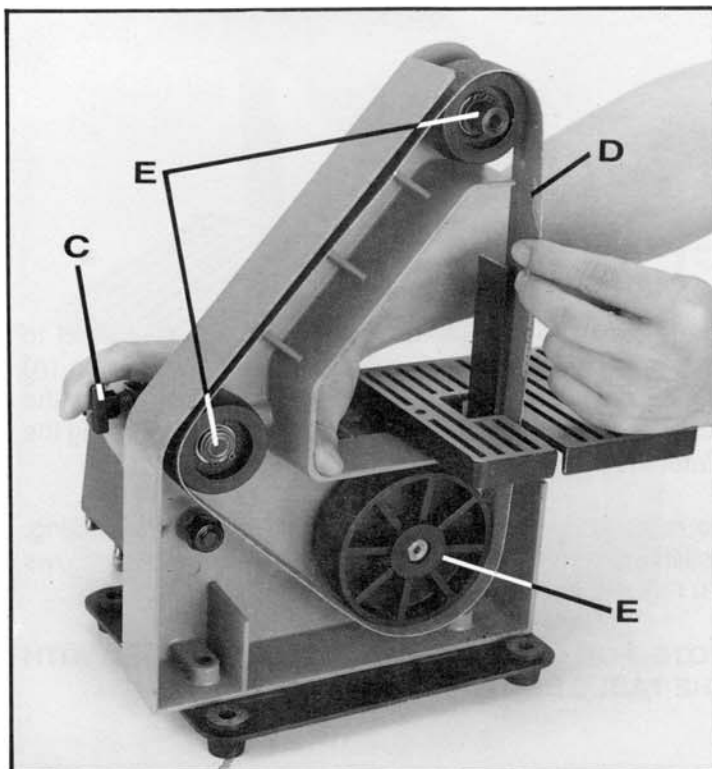


Fig. 17

TYPICAL OPERATIONS

The following are just some of the many operations that can be performed with your Delta 1" Belt Sander:

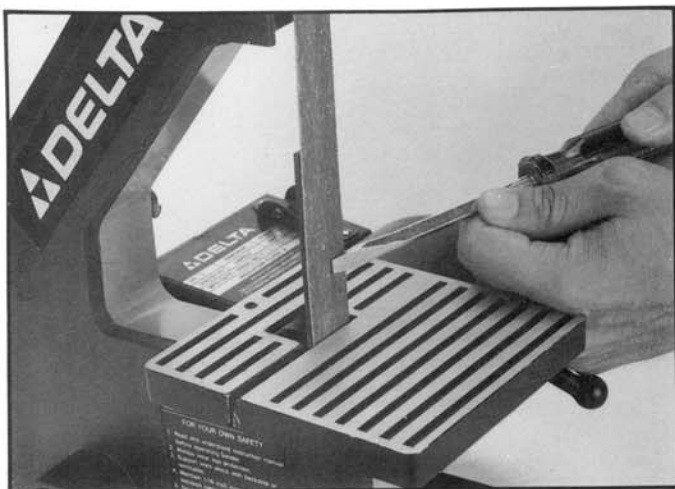


Fig. 18



Fig. 19

Sharpening screwdrivers and lathe tools, as shown in Figs. 18 and 19.

Fig. 20 illustrates a typical metal grinding operation.

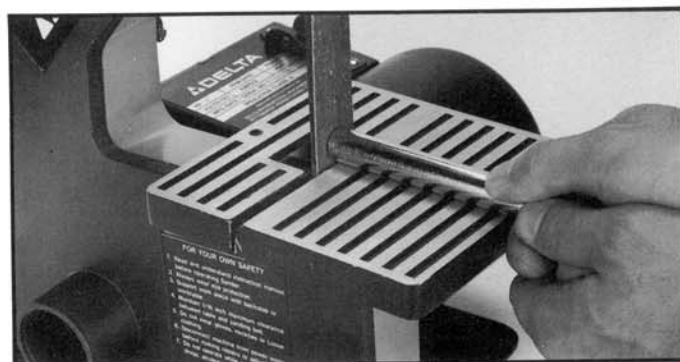


Fig. 20

Producing an outside curve on a workpiece, as shown in Fig. 21.



Fig. 21

Inside curves can be sanded using the top sanding wheel as shown in Fig. 22.

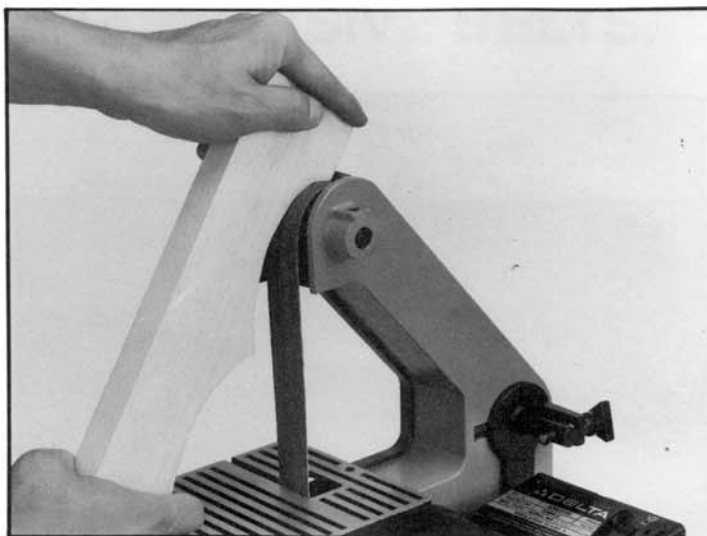


Fig. 22

Fig. 23 illustrates the table tilted to sand angles and miters.



Fig. 23

Using a buffing belt, numerous polishing, buffing and cleaning operations can be accomplished on many types of material, as shown in Fig. 24.



Fig. 24

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

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

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5442 Frontage Road,
Suite 112
Phone: (404) 608-0006
Fax: (404) 608-1123

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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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Fax: (781) 848-6759

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Fax: (508) 528-8089

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Fax: (248) 597-5004

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Fax: (216) 447-3097

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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

ALBERTA

Bay 6, 2520-23rd St. N.E.
Calgary, Alberta
T2E 8L2
Phone: (403) 735-6166
Fax: (403) 735-6144

BRITISH COLUMBIA

8520 Baxter Place
Burnaby, B.C.
V5A 4T8
Phone: (604) 420-0102
Fax: (604) 420-3522

MANITOBA

1699 Dublin Avenue
Winnipeg, Manitoba
R3H 0H2
Phone: (204) 633-9259
Fax: (204) 632-1976

ONTARIO

505 Southgate Drive
Guelph, Ontario
N1H 6M7
Phone: (519) 767-4132
Fax: (519) 767-4131

QUÉBEC

1515 ave.
St-Jean Baptiste, Suite 160
Québec, Québec
G2E 5E2
Phone: (418) 877-7112
Fax: (418) 877-7123

1447, Begin
St-Laurent, (Montréal),
Québec
H4R 1V8
Phone: (514) 336-8772
Fax: (514) 336-3505

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