4" Belt / 6" Disc Sander

(Model 31-460)



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ESPAÑOL: PÁGINA 21



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

ENERAL 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.

(IN CANADA: 505 SOUTHGATE DRIVE, 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.

KEEP GUARDS IN PLACE and in working order.

ALWAYS WEAR EYE PROTECTION. Wear safety glasses. Everyday eyeglasses only have impact resistant lenses; they are not safety glasses. Also use face or dust mask if cutting operation is dusty. These safety glasses must conform to ANSI Z87.1 requirements. NOTE: Approved glasses have Z87 printed or stamped on them.

4. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches removed from tool before turning it "on". are

5. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.

6. 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.

7. KEEP CHILDREN AND VISITORS AWAY. All children and visitors should be kept a safe distance from work area.

8. MAKE WORKSHOP CHILDPROOF - with padlocks, master switches, or by removing starter keys.

DON'T FORCE TOOL. It will do the job better and be safer at the rate for which it was designed.

10. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.

11. 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.

12. 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.

13. DON'T OVERREACH. Keep proper footing and balance at all times.

14. MAINTAIN TOOLS IN TOP CONDITION. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

15. DISCONNECT TOOLS before servicing and when changing accessories such as blades, bits, cutters, etc.

16. USE RECOMMENDED ACCESSORIES. The use of accessories and attachments not recommended by Delta may cause hazards or risk of injury to persons.

17. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in "OFF" position before plugging in power cord. In the event of a power failure, move switch to the "OFF" position.

18. **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.

Technical Service Manager

Delta Machinery 4825 Highway 45 North Jackson, TN 38305

19. 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.

20. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

21. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.

22. STAY ALERT, WATCH WHAT YOU ARE DOING. AND USE COMMON SENSE WHEN OPERATING A POWER TOOL. DO NOT USE TOOL WHILE TIRED OR UNDER INFLUENCE OF DRUGS, ALCOHOL, THE OR MEDICATION. A moment of inattention while operating power tools may result in serious personal injury.

23. MAKE SURE TOOL IS DISCONNECTED FROM **POWER SUPPLY** while motor is being mounted, connected or reconnected.

24. 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.

WARNING: SOME DUST CREATED BY 25. 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.

SAVE THESE INSTRUCTIONS.

ADDITIONAL SAFETY RULES FOR BELT / DISC SANDERS

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

1. **DO NOT** operate your machine until it is completely assembled and installed according to the instructions.

2. **IF YOU ARE NOT** thoroughly familiar with the operation of abrasive finishing machines, obtain advice from your supervisor, instructor or other qualified person.

3. **CAUTION:** This machine is designed to sand wood or wood-like products only. Sanding or grinding other materials could result in fire, injury or damage to product.

4. **ALWAYS** wear eye protection.

5. THIS MACHINE is intended for indoor use only.

6. **IMPORTANT:** Mount and use this machine on horizontal surfaces only. Operating machine when mounted on non-horizontal surfaces might result in motor damage.

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

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

9. **MAKE SURE** the sanding belt runs in the proper direction. See directional arrow on back side of belt.

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

11. **SUPPORT** workpiece firmly with the miter gage, backstop or work table when sanding with the belt. **NOTE:** The only exception is curved work performed on the top wheel of belt.

12. **ALWAYS** hold the workpiece firmly on the table when sanding on the disc.

13. **AVOID** kickback by sanding in accordance with directional arrows. Sand on downward side of disc. Sanding on the upward side could cause the workpiece to fly up causing injury.

14. **ALWAYS** maintain a maximum clearance of 1/16" or less between the table or backstop and the sanding belt or disc.

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

16. **SAND** with the grain of the wood.

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

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

19. **WHEN** sanding a large workpiece, provide additional support at table height.

20. **DO NOT** sand with the workpiece unsupported. Support the workpiece with the backstop or table. The only exception is curved work performed on the outer sanding drum.

21. **ALWAYS** remove scrap pieces and other objects from the table, backstop or belt before turning the machine "ON."

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

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

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

25. **NEVER** use solvents to clean plastic parts. Solvents could possibly dissolve or otherwise damage the material. Only a soft damp cloth should be used to clean plastic parts.

26. **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.

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

28. **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 01.1 Safety Requirements for Woodworking Machinery and the U.S. Department of Labor OSHA 1910.213 Regulations.

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

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POWER CONNECTIONS

A separate electrical circuit should be used for your machines. This circuit should not be less than #12 wire and should be protected with a 20 Amp time lag fuse. If an extension cord is used, use only 3-wire extension cords which have 3-prong grounding type plugs and matching receptacle which will accept the machine's plug. Before connecting the motor to the power line, make sure the switch is in the "OFF" position and be sure that the electric current is of the same characteristics as indicated on the machine. All line connections should make good contact. Running on low voltage will damage the motor.



WARNING: DO NOT EXPOSE THE MACHINE TO RAIN OR OPERATE THE MACHINE IN DAMP LOCATIONS. MOTOR SPECIFICATIONS

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

GROUNDING INSTRUCTIONS

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

1. All grounded, cord-connected machines:

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 machine is equipped with an electric cord having an equipmentgrounding 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 equipmentgrounding 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 machine is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding type plugs and matching 3-conductor receptacles that accept the machine's plug, as shown in Fig. A.

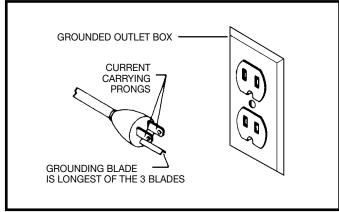
Repair or replace damaged or worn cord immediately.

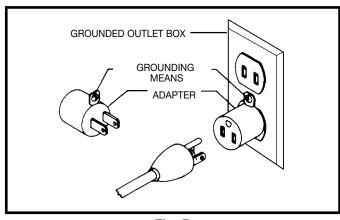
2. Grounded, cord-connected machines intended for use on a supply circuit having a nominal rating less than 150 volts: If the machine is intended for use on a circuit that has an

If the machine is intended for use on a circuit that has an outlet that looks like the one illustrated in Fig. A, the machine will have a grounding plug that looks like the plug illustrated in Fig. A. A temporary adapter, which looks like the adapter illustrated in Fig. B, may be used to connect this plug to a matching 2-conductor receptacle as shown in Fig. B if a properly grounded outlet is not available. The temporary adapter should be used only until a properly grounded outlet can be installed by a qualified electrician. 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. Whenever the adapter is used, it must be held in place with a metal screw.

NOTE: In Canada, the use of a temporary adapter is not permitted by the Canadian Electric Code.

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





4

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 matching receptacle which will accept the machine's plug. When using an extension cord, be sure to use one heavy enough to carry the current of the machine. An undersized cord will cause a drop in line voltage, resulting in loss of power and overheating. Fig. D, shows the correct gauge to use depending on the cord length. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

MINIMUM GAUGE EXTENSION CORD RECOMMENDED SIZES FOR USE WITH STATIONARY ELECTRIC MACHINES			
Ampere	Volts	Total Length	Gauge of
Rating		of Cord in Feet	Extension Cord
0-6	120	up to 25	18 AWG
0-6	120	25-50	16 AWG
0-6	120	50-100	16 AWG
0-6	120	100-150	14 AWG
6-10 6-10 6-10 6-10 6-10	120 120 120 120 120	up to 25 25-50 50-100 100-150	18 AWG 16 AWG 14 AWG 12 AWG
10-12 10-12 10-12 10-12 10-12	120 120 120 120 120	up to 25 25-50 50-100 100-150	16 AWG 16 AWG 14 AWG 12 AWG
12-16	120	up to 25	14 AWG
12-16	120	25-50	12 AWG
12-16	120	GREATER THAN 50 F	EET NOT RECOMMENDED

Fig. D

OPERATING INSTRUCTIONS

FOREWORD

The Delta Model 31-460 is a 4" Belt; 6" Disc Sander and comes equipped with; 1/3 hp 120 Volt Single Phase Induction Motor, tilting table, miter gage, backstop, 4" x 36" 60 grit sanding belt and 6" 60 grit sanding disc. The tilting aluminum table can be mounted for use on either the belt or disc unit. Belt operates horizontal, vertical and at any angle in between. The 3100 rpm disc and 2000 sf/m belt speed will handle just about any sanding job in hard and soft wood.

UNPACKING AND CLEANING

Carefully unpack the machine and all loose items from the shipping container(s). Remove the protective coating from all unpainted surfaces. This coating may be removed with a soft cloth moistened with kerosene (do not use acetone, gasoline or lacquer thinner for this purpose). After cleaning, cover the unpainted surfaces with a good quality household floor paste wax.

ASSEMBLY INSTRUCTIONS

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.

ADJUSTING BELT TENSION

Your sander was shipped from the factory with the drive belt (A) Fig. 2, assembled to both pulleys (B) and (C). Before assembling the disc unit to the machine, check and adjust the belt tension as follows:

1. Loosen screw (D) Fig. 2, and move sanding arm (E) to the vertical position to expose belt tensioning screw (F) Fig. 3, and locknut (G).

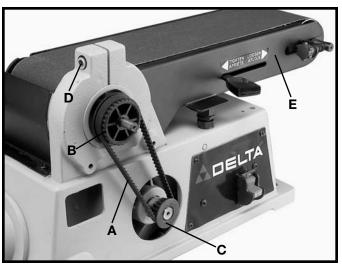


Fig. 2

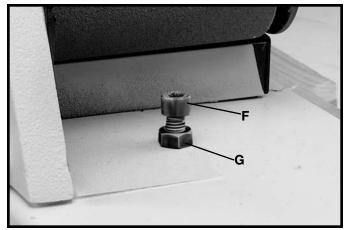


Fig. 3

2. Check to see if the belt (A) Fig. 4, is tensioned properly by applying light pressure to the belt at the center span of the pulleys as shown. NOTE: THE BELT (A) SHOULD BE FIRM BUT NOT TOO TIGHT. THE BELT DOES NOT REQUIRE EXCESSIVE TENSION TO FUNCTION PROPERLY.

3. If an adjustment is necessary, loosen locknut (G) Fig. 4, and tighten or loosen adjusting screw (F) until correct tension is obtained. Then tighten locknut (G).

4. After belt tension is checked and adjusted if necessary, move the sanding arm to the horizontal position.

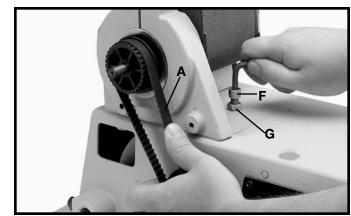
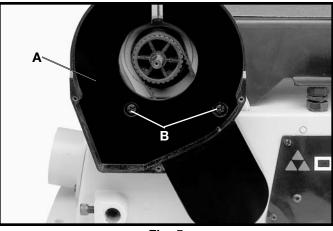


Fig. 4

ASSEMBLING BELT AND PULLEY GUARD

1. Assemble the belt and pulley guard (A) Fig. 5, to the machine base using the two 1-3/16" (30mm) long screws (B), as shown.





ASSEMBLING SANDING DISC PLATE

1. Thread the 1/4" long set screw (A) Fig. 6, into the tapped hole on hub of sanding disc plate. **NOTE:** Just start screw (A) in hole.

2. Slide sanding disc plate (B) Fig. 7, on drive shaft (C) making sure flat on drive shaft is aligned with set screw (A) in hub of plate (B). Slide plate (B) onto shaft (C) until plate surface and shaft are nearly flush. Shaft must not extend out past surface of plate.

A



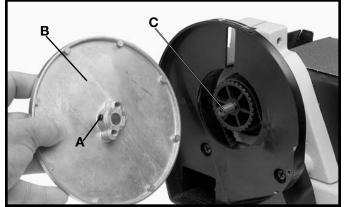
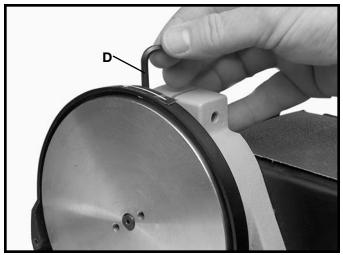


Fig. 7

3. Insert hex wrench (D) Fig. 8, down through slot in the back of belt and pulley guard and tighten set screw against flat on shaft.

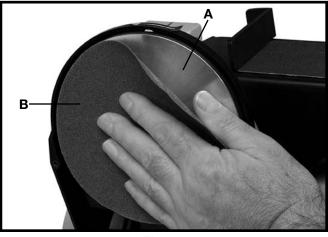




ASSEMBLING SANDING DISC

1. Make sure sanding disc plate (A) Fig. 9, is clean.

2. Peel backing from sanding disc and press disc (B) firmly into position all the way around the sanding plate, as shown in Fig. 9.





ASSEMBLING LOWER COVER FOR SANDING DISC

1. Assemble the lower cover (A) Fig. 10, to the belt and pulley guard, using the three 1/2" (12mm) long sheet metal screws (B).

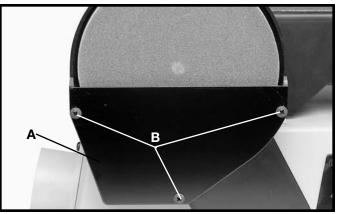


Fig. 10

ASSEMBLING DISC SANDER TABLE

1. Thread 13/16" (20mm) long socket head screw (A) Fig. 11, part-way into threaded hole in base of sander and insert rod (B) into hole as shown. Rod (B) should extend 5 inches outside base. Align flat on rod (B) with screw (A) and tighten screw (A) to hold rod (B) in place.

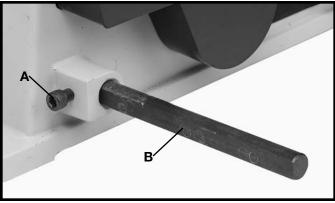


Fig. 11

2. Slide table assembly (C) Fig. 12, onto rod (B) as shown.

3. Thread 13/16" (20mm) long socket head screw (D) Fig. 12, into hole in table support bracket as shown. Align flat on rod (B) with screw (D) and tighten screw (D).

4. WARNING: TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE TABLE AND SANDING DISC, THE TABLE EDGE (E) FIG. 12, SHOULD BE PO-SITIONED A MAXIMUM OF 1/16" AWAY FROM SANDING DISC (F). LOOSEN SCREW (D) AND ADJUST TABLE ACCORDINGLY.

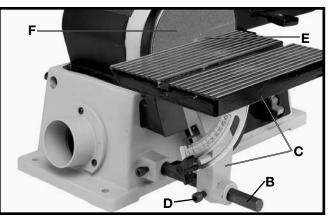


Fig. 12

ASSEMBLING DUST SPOUT

1. Fasten dust spout (A) Fig. 13, to sander base using the three 3/8" (10mm) long pan head screws, two of which are shown at (B), and flat washers supplied.

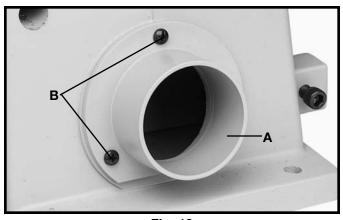


Fig. 13

ASSEMBLING BACKSTOP TO SANDING ARM

1. Assemble backstop (A) Fig. 14, to the sanding arm using the 1/2" long hex head screw (B) and 5/16" flat washer (C). Do not overtighten screw (B).

WARNING: TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE BACKSTOP AND SANDING BELT, THE EDGE (D) OF THE BACKSTOP SHOULD BE POSITIONED A MAXIMUM OF 1/16 INCH AWAY FROM SANDING BELT (E).

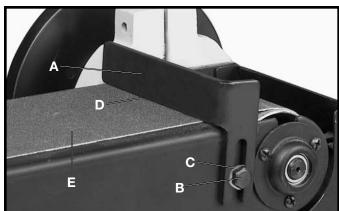
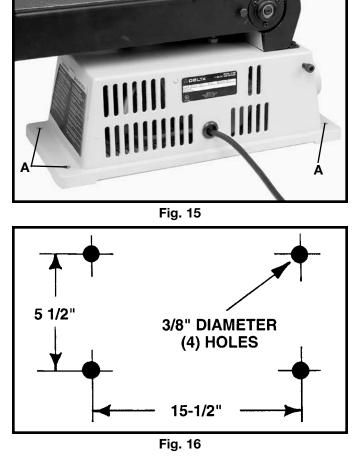


Fig. 14

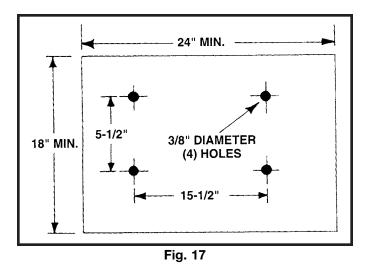
FASTENING SANDER TO SUPPORTING SURFACE

1. If your sander is to be used in a permanent location, it should be fastened securely to a firm supporting surface, such as a stand or workbench using the four holes, three of which are shown at (A) Fig. 15.

2. The diagram, shown in Fig. 16, illustrates the size and center to center distance of the holes to be drilled in the stand or workbench.



3. An alternate method of securing the sander to a supporting surface is to fasten the sander base to a mounting board 18" x 24" minimum size. The diagram, shown in Fig. 17, illustrates the size and center to center distance of the holes to be drilled in the mounting board. **NOTE:** For proper stability, the holes in the mounting board must be countersunk at the bottom so screw heads are flush with bottom surface of the mounting board.



4. Securely clamp the mounting board to a stand or workbench using 2 or more "'C" clamps, as shown in Fig. 18.

IMPORTANT: If there is any tendency for the stand or workbench to move during operation, the stand or workbench must be fastened to the floor.

NOTE: Mount and use this machine on horizontal surfaces only. Use when mounted on non-horizontal surfaces will result in motor damage.

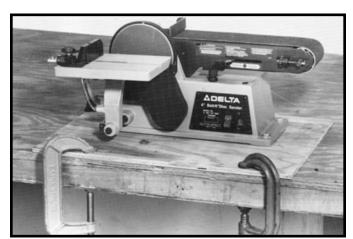


Fig. 18

OPERATING CONTROLS AND ADJUSTMENTS

STARTING AND STOPPING SANDER

The switch (A) Fig. 22, is located on the sander base. To turn the sander "ON" move the switch to the up position. To turn the sander "OFF" move the switch to the down position.

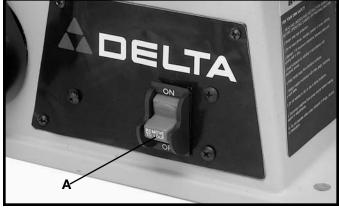


Fig. 22

LOCKING SWITCH IN THE "OFF" POSITION

IMPORTANT: When the machine is not in use, the switch should be locked in the "OFF" position to prevent unauthorized use. This can be done by grasping the switch toggle (B) Fig. 23, and pulling it out of the switch as shown. With the switch toggle (B) removed, the switch will not operate. However, should the switch toggle be removed while the machine is running, it can be turned "OFF" once, but cannot be restarted without inserting the switch toggle (B).

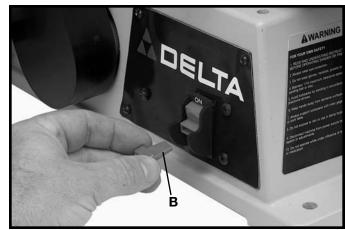


Fig. 23

TRACKING THE SANDING BELT

1. Turn the switch "ON" and "OFF" and check to see if the sanding belt tends to move to one side or the other on the two sanding drums. If the belt does not move to one side or the other and rides on the center of the sanding drums the belt is tracking properly.

2. If the sanding belt moves toward the disc, turn the tracking knob (A) Fig. 24, counterclockwise 1/4 turn.

3. If the sanding belt moves away from the disc, turn the tracking knob (A) Fig. 24, clockwise 1/4 turn.

4. Turn the switch "ON" and "OFF" again, and check to see if the sanding belt moves to one side or the other and readjust tracking knob if necessary.

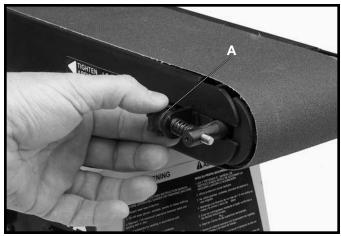


Fig. 24



Fig. 25

CHANGING POSITION OF SANDING ARM

1. The sanding arm (A) can be used in the horizontal position, as shown in Fig. 25; vertical position, as shown in Fig. 26; or any angle in between by loosening screw (B), positioning the arm (A) to the desired angle and tightening screw (B).

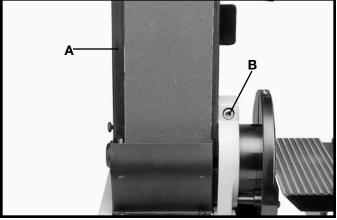


Fig. 26

ADJUSTING SANDING ARM STOP

A positive stop is provided to position the sanding arm level with the workbench when the arm is in the horizontal position.

1. Place the sanding arm as far as possible in the horizontal position.

2. Place a level (A) on the sanding belt and check to see if the arm is level, as shown in Fig. 27.

3. If an adjustment is necessary, loosen lock nut (B) Fig. 27, and turn sanding arm stop (C) in or out until the sanding arm is level. Then tighten lock nut (B).

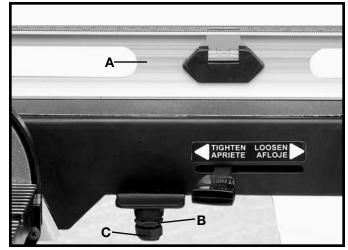


Fig. 27

ADJUSTING BACKSTOP SQUARE WITH SANDING BELT

1. DISCONNECT MACHINE FROM POWER SOURCE.

2. When making this adjustment make sure the belt tension lever (A) Fig. 28, is all the way to the left in the tightened position, as shown.

3. Place a square (B) Fig. 29, on the sanding belt with one end of the square against the backstop, and check to see if the backstop is square with the sanding belt.

4. If an adjustment is necessary, loosen screw (C) Fig. 29, and adjust the backstop accordingly.

TILTING THE TABLE

1. The table can be tilted up to 45 degrees to the right by loosening the table lock knob (A) Fig. 30, tilting the table to the desired angle, and tightening table lock knob (A).

2. WARNING: AFTER TILTING, THE TABLE AS-SEMBLY MUST BE REPOSITIONED ON THE SUP-PORT ROD (B) FIG. 30, TO PROVIDE A MAXIMUM OF 1/16 INCH DISTANCE BETWEEN THE SANDING DISC (C), AND THE EDGE (D) OF THE TABLE, TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE DISC AND TABLE. TO REPOSITION THE TABLE ASSEMBLY, LOOSEN SCREW (E), MOVE TABLE ASSEMBLY ON ROD (B), AND TIGHTEN SCREW (E).

ADJUSTING TABLE SQUARE WITH SANDING DISC

1. DISCONNECT MACHINE FROM POWER SOURCE.

2. Using a combination square, place one end of the square on the table with the other end against the sanding disc, as shown in Fig. 31, and check to see if the table is 90 degrees to the disc.

3. If the table surface is not 90 degrees to the disc, loosen table lock knob (A) Fig. 31, adjust table square with disc and tighten lock knob (A).

4. Adjust pointer (B) Fig. 31, to the 0 degree mark on the angle scale.



Fig. 28

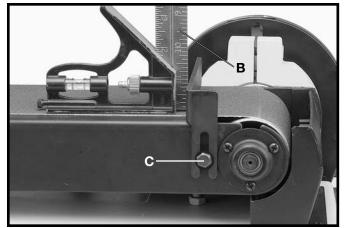


Fig. 29

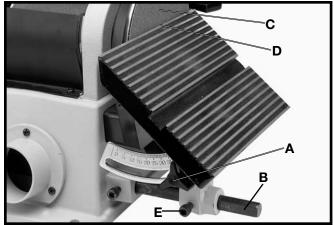
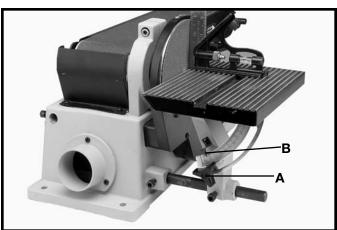


Fig. 30



ADJUSTING MITER GAGE SLOT PARALLEL WITH SANDING DISC

1. DISCONNECT MACHINE FROM POWER SOURCE.

2. Using a combination square (A) in the miter gage slot, check the distance from the slot to each end of the sanding disc, as shown in Figs. 32 and 33. This distance should be the same.

3. If an adjustment to the table is necessary, loosen the three screws (B) Fig. 34, that fasten the table to the table mounting bracket and trunnion and adjust the table

accordingly - then tighten the three screws (B).

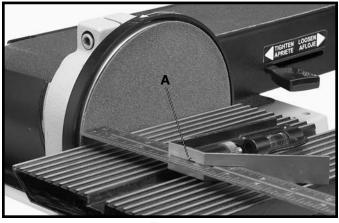


Fig. 32



Fig. 33

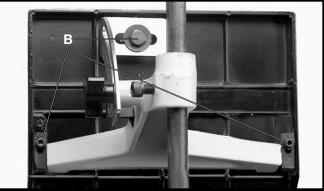
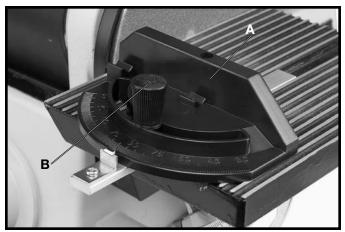


Fig. 34





MITER GAGE

A miter gage (A) Fig. 35, is supplied with your machine and is used with the disc table. The miter gage body (A) can be tilted right or left for angle or miter sanding by loosening lock knob (B), rotate miter gage body and tighten lock knob (B).

USING TABLE ASSEMBLY WITH SANDING BELT

When the sanding arm (A) Fig. 36, is used in the vertical position, the complete table assembly (B) can be moved from the disc unit to the belt unit as follows:

1. Remove the backstop (C) Fig. 36.

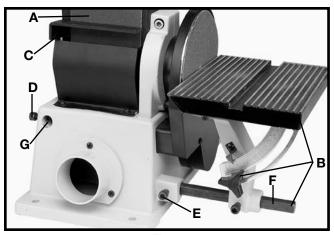
2. Locate and thread the 13/16" (20mm) long socket head screw (D) Fig. 36, into base casting as shown. **NOTE:** Only thread screw (D) partway into base casting.

3. Loosen screw (E) Fig. 36, and remove support bar (F) and table assembly (B) from disc unit. Insert bar (F) into hole (G) on belt unit and tighten screw (D).

4. Fig. 37, illustrates the table assembly (B) assembled to the belt unit.

WARNING: THE TABLE EDGE (G) MUST BE POSITIONED A MAXIMUM OF 1/16 INCH AWAY FROM THE SANDING BELT (H) TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE TABLE AND SANDING BELT.

A dust spout (A) Fig. 38, is supplied with your sander and can easily be connected to a standard shop vacuum hose. The outside diameter of the opening of the dust





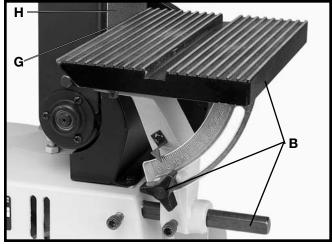
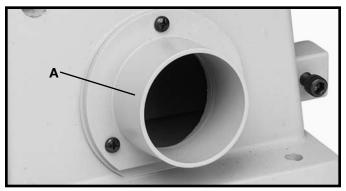


Fig. 37



WRENCH STORAGE

DUST SPOUT

spout is 2-1/2 inches.

Two holes are provided in the base casting and are used for storing the two wrenches (A) Fig. 39, supplied with the sander.





Fig. 39

15

REPLACING SANDING BELT

1. DISCONNECT MACHINE FROM POWER SOURCE.

2. Remove screw (A) Fig. 40, and remove backstop (B).

3. Slide tension lever (C) Fig. 41, to the right to release tension on sanding belt and remove sanding belt (D) from both sanding drums, as shown.

4. Slide new sanding belt over both sanding drums making sure the belt will run in the direction of the arrow located on the inside of the belt.

5. Re-apply belt tension by sliding tension lever (C) Fig. 41, to the left.

6. Replace backstop which was removed in **STEP 2**.

7. Connect electrical power to the sander and check to see if the belt is tracking properly. If not, refer to the section **"TRACKING THE SANDING BELT"**.

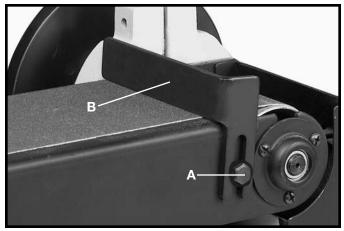


Fig. 40



Fig. 41

REPLACING SANDING DISC

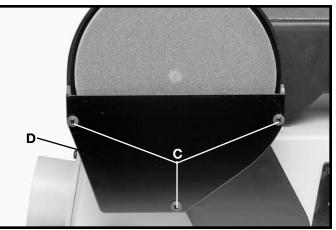
When it becomes necessary to replace the sanding disc, proceed as follows:

1. DISCONNECT MACHINE FROM POWER SOURCE.

2. Loosen screw (A) Fig. 42, and remove table assembly (B).

B

Fig. 42





3. Remove three screws (C) Fig. 43, and lower cover (D).

4. Peel off old disc (E) as shown in Fig. 44.

5. Make sure the disc plate (F) Fig. 44, is clean and peel backing from new sanding disc. Press the new sanding disc firmly into position on disc plate (F) and replace lower cover and table assembly which were removed in **STEPS 2** and **3**.

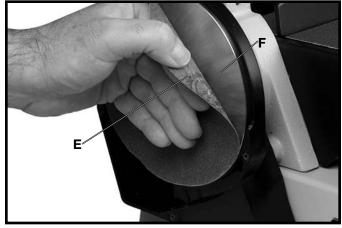


Fig. 44

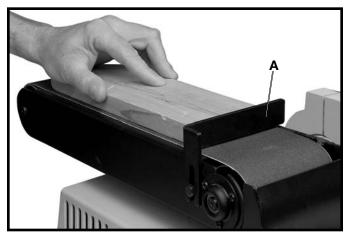


Fig. 45

OPERATION



Fig. 46

SURFACING OR EDGE SANDING WITH SANDING BELT

When surfacing, see Fig. 45, or edge sanding, see Fig. 46, the sanding arm is in the horizontal position and the backstop (A) Fig. 45 and Fig. 46, must always be used to prevent the workpiece from being carried along the belt. Always hold the workpiece firmly, keeping your fingers away from the sanding belt. Always keep the end of the workpiece evenly across the sanding belt. Apply only enough pressure to allow the sanding belt to remove material. Use extra caution when sanding very thin pieces.

WARNING: THE EDGE OF THE BACKSTOP MUST BE POSITIONED A MAXIMUM OF 1/16 INCH AWAY FROM THE SANDING BELT TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE BACKSTOP AND SANDING BELT.



Fig. 47

SANDING INSIDE CURVES

Inside curves can be sanded on the top sanding drum, as shown in Fig. 47.



Fig. 48

SANDING OUTSIDE CURVES

Outside curves should be sanded on the sanding disc as shown in Fig. 48.

WARNING: ALWAYS SAND ON THE LEFT (DOWNWARD) SIDE OF THE SANDING DISC, AS SHOWN. SANDING ON THE RIGHT (UPWARD) SIDE OF THE SANDING DISC COULD CAUSE THE WORKPIECE TO FLY UP WHICH COULD BE HAZARDOUS.

WARNING: THE EDGE OF THE TABLE MUST BE POSITIONED A MAXIMUM OF 1/16 INCH AWAY FROM THE SANDING DISC TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE TABLE AND SANDING DISC.

END SANDING WITH THE BELT

When sanding the ends of <u>wide workpieces</u> it is more convenient to use the sanding belt with the sanding arm in the vertical position and the table assembly moved to the sanding belt, as shown in Fig. 49. See sections titled "CHANGING POSITION OF SANDING ARM" and "USING TABLE ASSEMBLY WITH SANDING BELT".

For more accurate work use the miter gage (supplied as standard equipment) and move the work evenly across the sanding belt, as shown in Fig. 49.

WARNING: THE EDGE OF THE TABLE MUST BE POSITIONED A MAXIMUM OF 1/16 INCH AWAY FROM THE SANDING BELT TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE TABLE AND SANDING BELT.



Fig. 49

END SANDING WITH THE DISC

When sanding the ends of <u>narrow workpieces</u> use the sanding disc and the miter gage, as shown in Fig. 50. Move the work from the center to the left side of the sanding disc.

WARNING: ALWAYS SAND ON THE LEFT (DOWN-WARD) SIDE OF THE SANDING DISC, AS SHOWN. SANDING ON THE RIGHT (UPWARD) SIDE OF THE SANDING DISC COULD CAUSE THE WORKPIECE TO FLY UP WHICH COULD BE HAZARDOUS.

WARNING: THE EDGE OF THE TABLE MUST BE POSITIONED A MAXIMUM OF 1/16 INCH AWAY FROM THE SANDING DISC TO AVOID TRAPPING THE WORK OR FINGERS BETWEEN THE TABLE AND SANDING DISC.

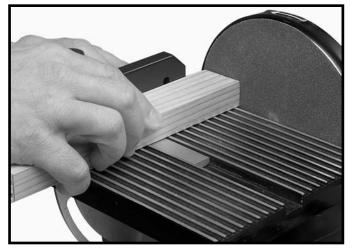


Fig. 50

ACCESSORIES

A complete line of accessories is available from your 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 Delta have not been tested with this product, use of such accessories could be hazardous. For <u>safest operation</u>, only Delta recommended accessories should be used with this product.



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