

# Bench Band Saw (Model 28-185)



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PART NO. 1346498  
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**DELTA**

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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 improper accessories 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 BAND SAWS

1. **WARNING:** Do not operate your band saw until it is completely assembled and installed according to the instructions.
2. **IF YOU ARE NOT** thoroughly familiar with the operation of band saws, obtain advice from your supervisor, instructor, or other qualified person.
3. **ALWAYS WEAR EYE PROTECTION.**
4. **MAKE SURE** the machine is fastened to a supporting surface to prevent it from tipping over during operation.
5. **NEVER** turn the machine "ON" before clearing the table of all objects (tools, scrap pieces, etc.).
6. **NEVER** start the band saw with the saw blade pressed against the workpiece.
7. **ADJUST** the upper guide about 1/8" above the material being cut.
8. **MAKE SURE** that blade tension and blade tracking are properly adjusted.
9. **ALWAYS** keep hands and fingers away from the blade.
10. **CHECK** for proper blade size and type.
11. **DO NOT** attempt to saw stock that does not have a flat surface, unless a suitable support is used.
12. **HOLD** material firmly against the table and feed material into blade at a moderate speed.
13. **TURN OFF** machine if the material is to be backed out of an uncompleted cut.
14. **MAKE** "release" cuts before cutting long curves
15. **DO NOT** remove jammed cut-off pieces until blade has stopped.
16. **STOP** the machine before removing scrap pieces from the table.
17. **NEVER** perform layout, assembly, or set-up work on the table while the machine is operating.
18. **ALWAYS** hold the workpiece firmly against the table.
19. **AVOID** awkward hand positions where a sudden slip could cause a hand to move into the blade.
20. **DO NOT** cut material that is too small to be safely supported.
21. **MAKE SURE** the blade teeth point downward toward the table.
22. **ALWAYS** maintain proper adjustment of blade tension, blade guides, and blade support bearing.
23. **SHUT OFF** the power and clean the table and work area before leaving the machine.
24. **SHOULD** any part of your band saw 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. **THE USE** of attachments and accessories not recommended by Delta may result in the risk of injuries.
26. **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.
27. **SAVE THESE INSTRUCTIONS.** Refer to them often and use them to instruct others.

# UNPACKING

Your new Band Saw is shipped complete in one container. Carefully unpack the saw and all loose items from the shipping container. Fig. 2, illustrates the contents of the container.

- A - Band Saw with 56-1/8" Blade
- B - Table
- C - Table aligning screw, washer, and wing nut
- D - Miter Gage
- E - (2) Adjusting Wrenches - 3mm and 4mm
- F - Table locking handle and washer

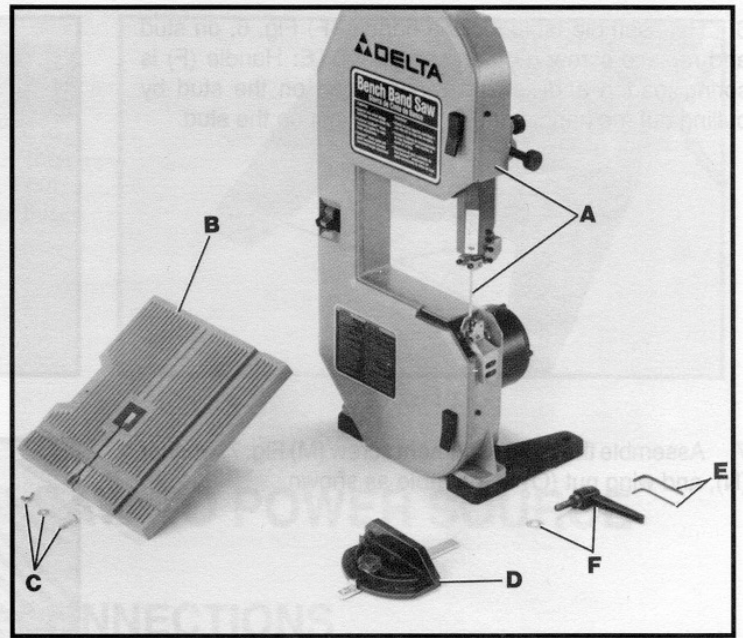


Fig. 2

## ASSEMBLY INSTRUCTIONS

1. Locate table locking handle assembly (A) Fig. 3, flat washer (B), and wrench (C).
2. Using wrench (C) Fig. 3 supplied, remove screw (D) and spring (E) from handle (F) and remove handle (F) from stud (G). Do not lose spring (E).
3. Place table (H) Fig. 4, onto band saw frame, making sure the blade (J) travels through the slot (K) in the table as shown.
4. Make sure the mounting rib on the band saw frame is engaged with the groove on the inside of the table trunnion (L) Fig. 5.
5. Place flat washer (B) Fig. 5, on the threaded end of stud (G) and fasten table assembly (H) to frame using stud (G) as shown.

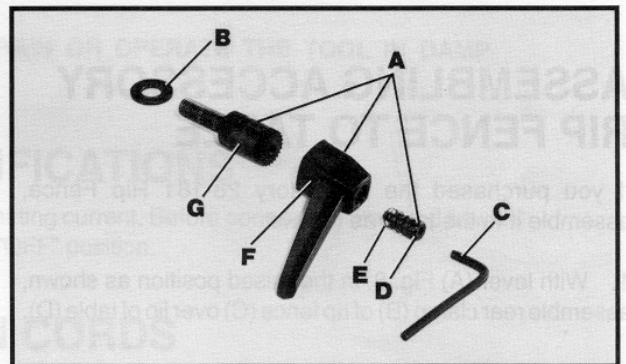


Fig. 3

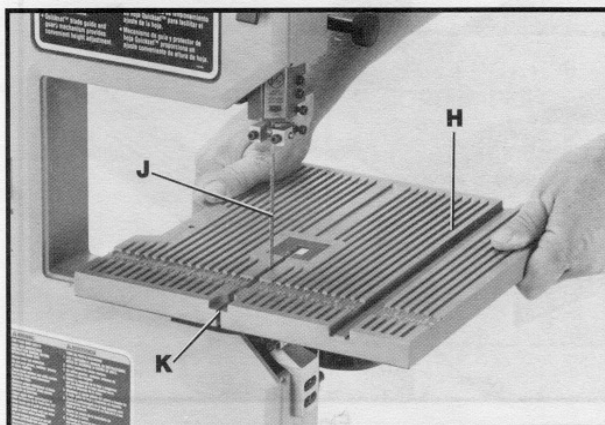


Fig. 4

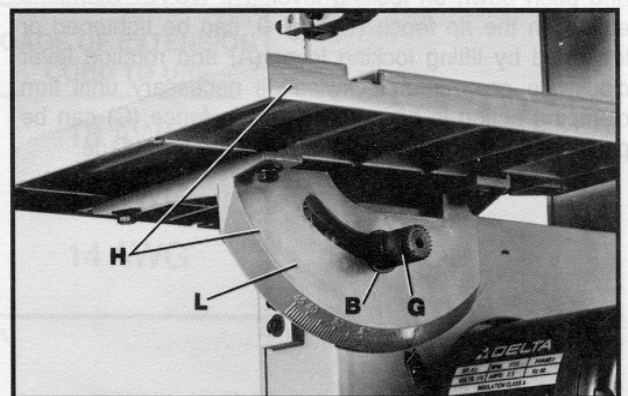


Fig. 5

6. Reassemble table locking handle (F) Fig. 6, on stud and replace screw (D) and spring. **NOTE:** Handle (F) is spring loaded and can be repositioned on the stud by pulling out the handle and repositioning it on the stud.

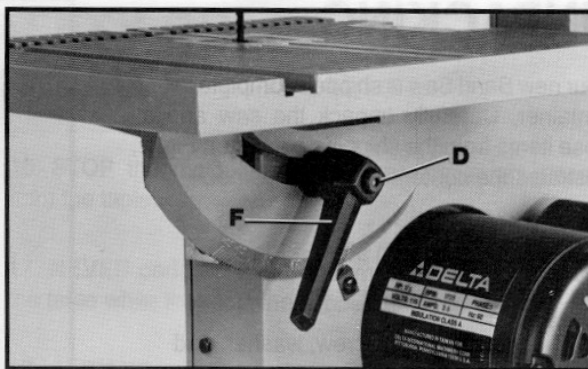


Fig. 6

7. Assemble the table alignment screw (M) Fig. 7, washer (N), and wing nut (O) to the table as shown.

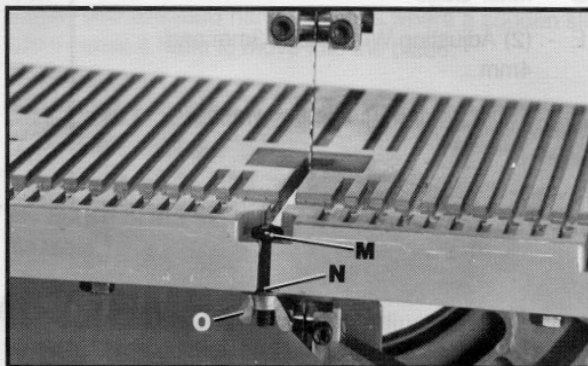


Fig. 7

## ASSEMBLING ACCESSORY RIP FENCE TO TABLE

If you purchased the Accessory 28-181 Rip Fence, assemble it to the table as follows:

1. With lever (A) Fig. 8, in the raised position as shown, assemble rear clamp (B) of rip fence (C) over lip of table (D).

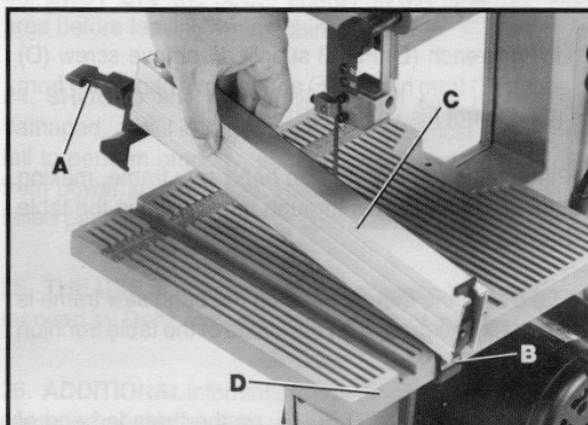


Fig. 8

2. Lower the front of rip fence (C) Fig. 9, against the table and push down on locking lever (A). **NOTE:** Clamping action on the rip fence (C) Fig. 9, can be tightened or loosened by lifting locking lever (A) and rotating lever clockwise or counterclockwise as necessary until firm clamping action is accomplished. Rip fence (C) can be positioned either to the right or left of the saw blade.

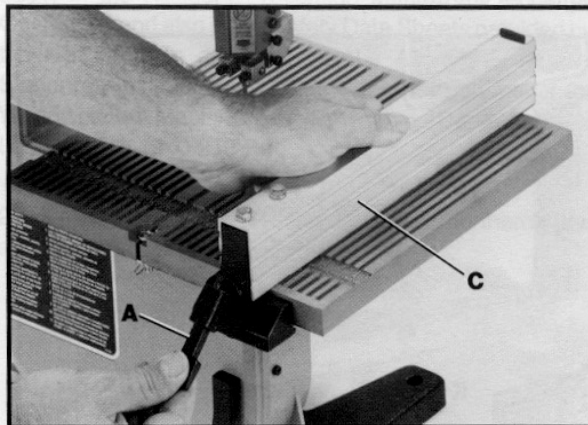


Fig. 9

## FASTENING BAND SAW TO SUPPORTING SURFACE

If during operation there is any tendency for the machine to tip over, slide, or walk on the supporting surface, the machine must be secured to the supporting surface. Four holes (A) Fig. 10, are provided in the band saw base for this purpose.

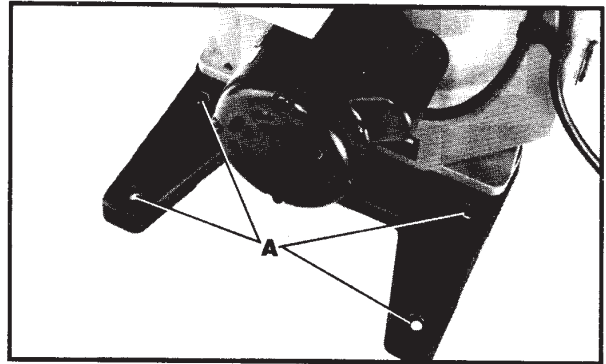


Fig. 10

## CONNECTING BAND SAW 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 band saw is wired for 110-120 volt, 60 HZ alternating current. Before connecting the band saw to the power source, make sure the switch is in the "OFF" position.

### 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 tools plug. When using an extension cord, be sure to use one heavy enough to carry the current of the saw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Fig. 10A, shows the correct gage to use depending on 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. 10A

# 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. 11.

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. 11. A temporary adapter, which looks like the adapter illustrated in Fig. 12, may be used to connect this plug to a 2-pole receptacle, as shown in Fig. 12, 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. 12.

**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.**

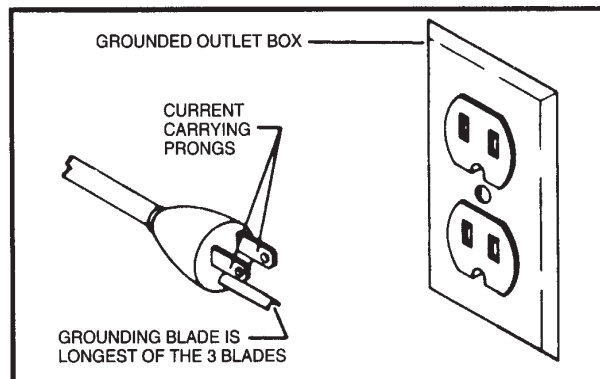


Fig. 11

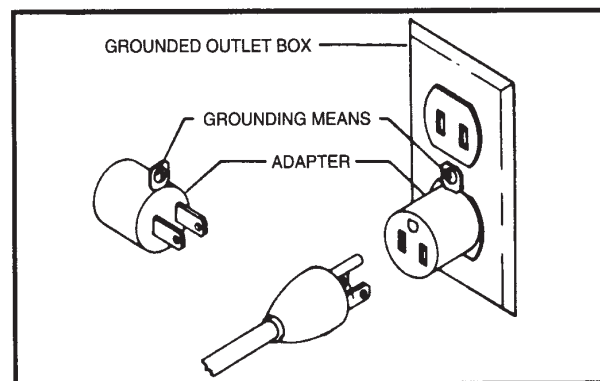


Fig. 12

# OPERATING CONTROLS AND ADJUSTMENTS

## STARTING AND STOPPING SAW

The switch (A) Fig. 13, is located on the front side of the band saw. To turn the saw "ON" move the switch (A) to the up position. To turn the saw "OFF" move the switch (A) to the down position.

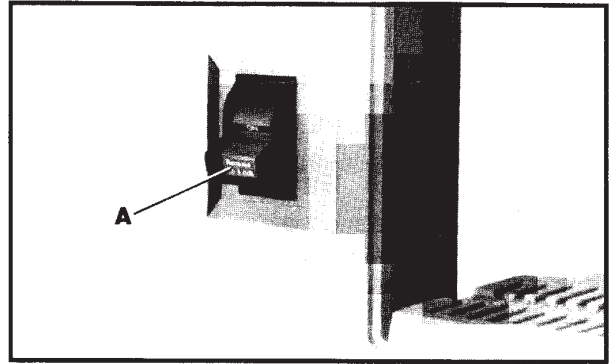


Fig. 13

## LOCKING SWITCH IN THE "OFF" POSITION

We suggest that when the saw is not in use, the switch be locked in the "OFF" position. This can be done by grasping the switch toggle (B) Fig. 14, 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, the switch can be turned "OFF" once, but cannot be restarted without inserting the switch toggle (B).

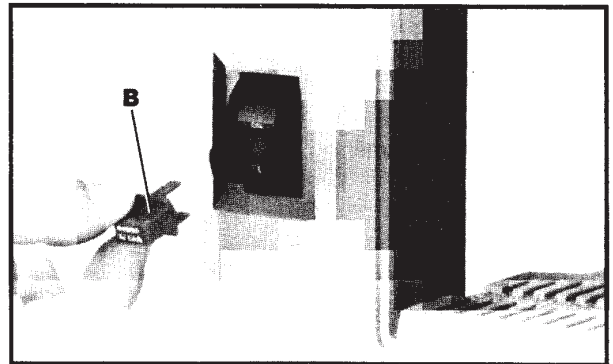


Fig. 14

## OPENING AND CLOSING HINGED DOOR

For the purpose of making adjustments such as changing the blade, tracking the blade, blade guide adjustments, etc., the hinged door (A) Fig. 15, must be swung open as follows:

1. **CAUTION: NEVER OPEN THE HINGED DOOR WHEN THE MACHING IS RUNNING.**
2. Lift up the two latch levers (B) Fig. 15, and open door (A).
3. The hinged door (A) is shown in the open position in Fig. 16.
4. To close and fasten the door (A) Fig. 16, make sure the expansion latches (C) are inserted into the two bracket holes (D) and move the latch levers (B) to the down "locked" position.

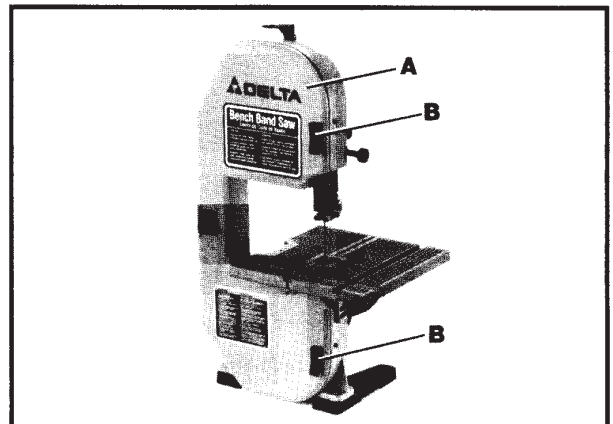


Fig. 15

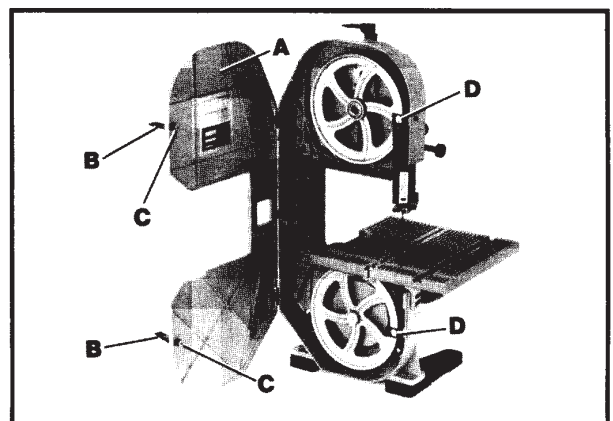


Fig. 16

## ADJUSTING BLADE TENSION

Blades of 1/8", 1/4" and 3/8" wide by 56-1/8" in length are available for use with your band saw. **NOTE:** The blade tension must be adjusted to accommodate different blade widths in order to provide proper blade tracking, cutting performance and blade life.

1. After the desired blade is assembled to the two band saw wheels, lift up on tension lever (A) Fig. 17, as shown, and turn tension lever (A) clockwise until spring (B) begins to compress.
2. Turn tension lever (A) Fig. 17, one complete additional turn for 1/8" wide blades; two complete additional turns for 1/4" wide blades; and three complete additional turns for 3/8" wide blades.
3. Push tension lever (A) Fig. 18, downward as shown to lock-in tension adjustment.

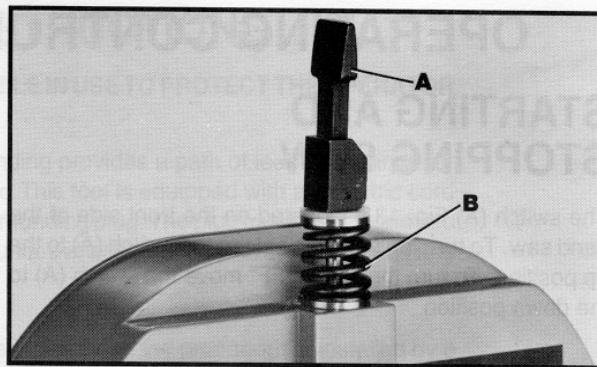


Fig. 17

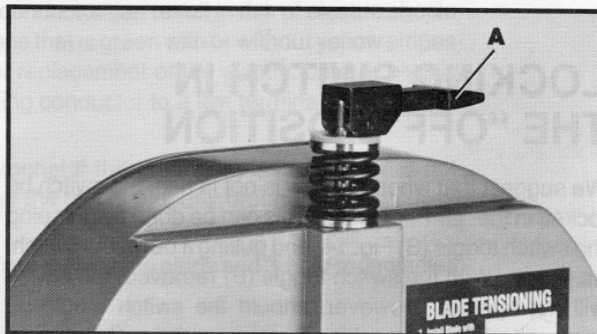


Fig. 18

## TRACKING THE BLADE

1. Disconnect the machine from the power source.
2. Before tracking the blade, make sure the blade guides and blade support bearings are clear of the blade so as not to interfere with the tracking adjustment. Also make sure that the blade is tensioned properly.
3. Rotate upper wheel (A) Fig. 19, clockwise by hand and check to see if the blade (B) rides true on the approximate center of the two wheels.
4. If an adjustment is necessary, **SLIGHTLY** turn blade tracking knob (C) Fig. 20, clockwise to move the blade to the rear and counterclockwise to move the blade to the front. **NOTE:** Very little movement of the blade tracking adjusting knob (C) is necessary.

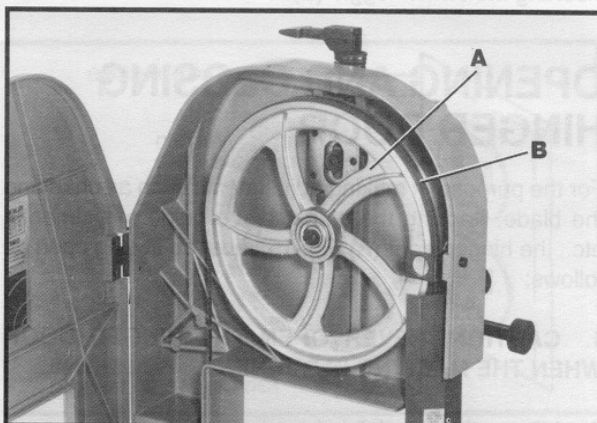


Fig. 19

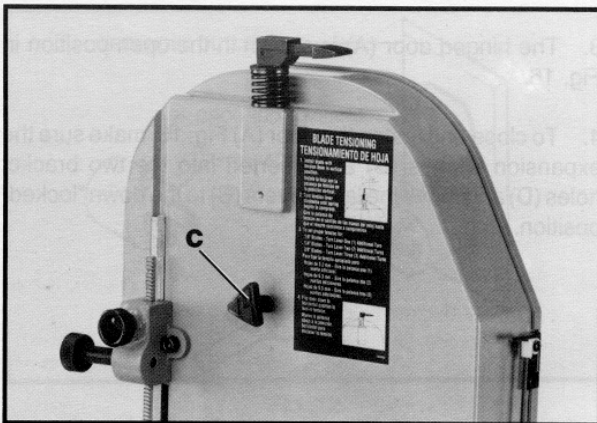


Fig. 20

## ADJUSTING UPPER BLADE GUIDE ASSEMBLY

The upper blade guide assembly (A) Fig. 21, should always be set about 1/8" above or as close as possible to the top surface of the workpiece being cut. Loosen knob (B) Fig. 21, rotate knob (C) and position the guide assembly (A) to the desired position. Then tighten knob (B).

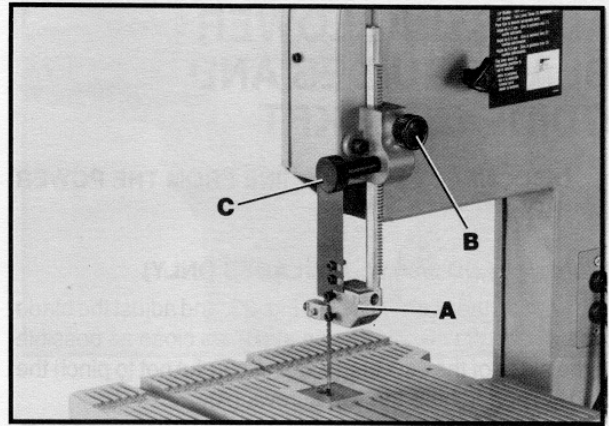


Fig. 21

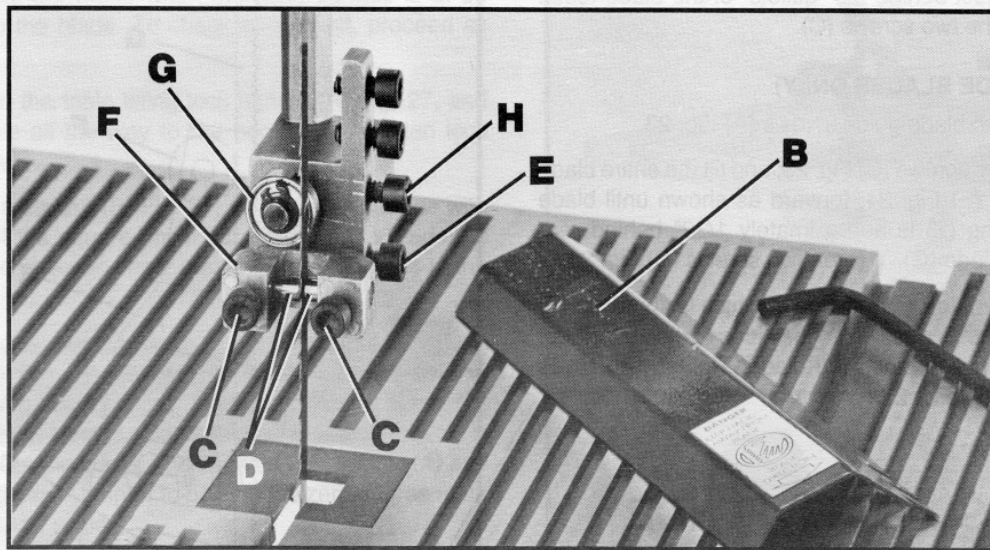


Fig. 22

## ADJUSTING UPPER BLADE GUIDES

**IMPORTANT: BOTH THE UPPER AND LOWER BLADE GUIDES MUST BE PROPERLY ADJUSTED TO PREVENT THE BLADE FROM TWISTING DURING OPERATION.**

1. Disconnect the machine from the power source.
2. **NOTE:** Upper blade guard (B) Fig. 22, is shown removed for clarity.
3. Loosen the two screws (C) Fig. 22, and adjust the blade guides (D) as close as possible to the sides of the saw blade, being careful not to pinch the blade. Then tighten the two screws (C).
4. Loosen screw (E) Fig. 22, and move the guide bracket (F) in or out until the front edge of the guides (D) is just behind the "gullets" of the blade teeth. Then tighten screw (E).

## ADJUSTING UPPER BLADE SUPPORT BEARING

The upper blade support bearing (G) Fig. 22, prevents the saw blade from being pushed back too far when cutting. The support bearing (G) should be adjusted approximately 1/32" behind the rear edge of the blade, as follows:

1. Loosen screw (H) Fig. 22, and slide support bearing (G) in or out until it is approximately 1/32" behind the rear edge of the saw blade. Then tighten screw (H).

## ADJUSTING LOWER BLADE GUIDES AND GUIDE BRACKET

1. DISCONNECT THE MACHINE FROM THE POWER SOURCE.

(FOR 1/4" AND 3/8" WIDE BLADES ONLY)

2. Loosen the two screws (A) Fig. 23, and adjust the blade guides, one of which is shown at (B), as close as possible to the sides of the saw blade, being careful not to pinch the blade. Then tighten the two screws (A).

3. Loosen two screws (C) Fig. 23, and move the complete blade guide bracket (D) in or out until the front edge of the guides (B) is just behind the "gullets" of the blade teeth. Then tighten the two screws (C).

(FOR 1/8" WIDE BLADES ONLY)

4. Loosen two blade guide screws (A) Fig. 23.

5. Loosen two screws (C) Fig. 23, and tilt the entire blade guide bracket (E) Fig. 24, forward as shown until blade support bearing (F) is approximately 1/32" behind rear edge of saw blade (G). Tighten two screws (C) Fig. 24.

6. Adjust the blade guides, one of which is shown at (B) Fig. 23, as close as possible to the sides of the saw blade, being careful not to pinch the blade. Tighten two blade guide screws (A) Fig. 23.

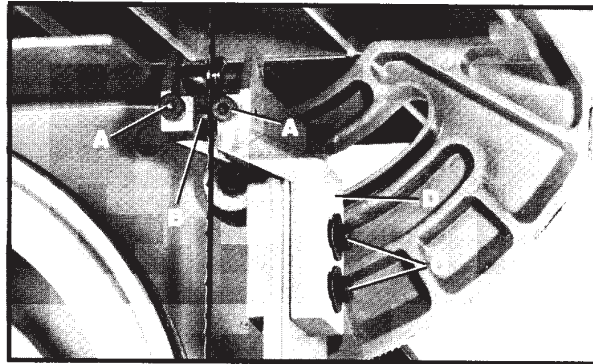


Fig. 23

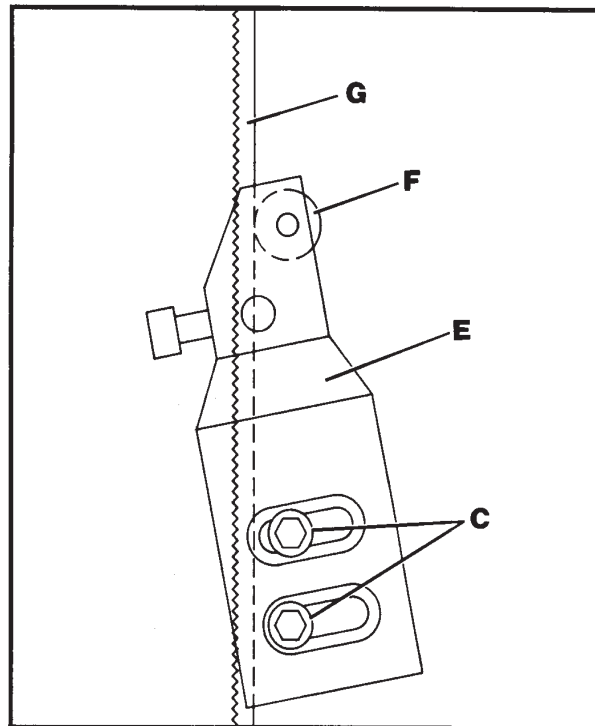


Fig. 24

## ACCESSORY RIP FENCE OPERATION AND ADJUSTMENTS

The accessory rip fence (A) Fig. 25, can be moved along the table surface by lifting lock lever (B) and sliding the rip fence (A) to the desired location on the table. Push down on lever (B) to firmly lock rip fence in position on the table.

**NOTE:** A handy English/Metric scale (C) indicates the distance the fence is positioned from the saw blade.

For accurate work, the rip fence (A) Fig. 25, must be parallel to the miter gage slot (D). Move the rip fence (A) to the edge of the miter gage slot and check the alignment. If an adjustment is necessary:

1. Loosen two screws (E) Fig. 25, and raise locking lever (B).

2. While holding rip fence bracket (F) Fig. 25, firmly, move the far end of the fence (A) until it is parallel with the miter gage slot (D).

3. Tighten two screws (E) Fig. 25, and push down on locking lever (B).

4. Clamping action on the rip fence (A) Fig. 25, can be tightened or loosened by lifting locking lever (B) and rotating lever (B) clockwise or counterclockwise as necessary.

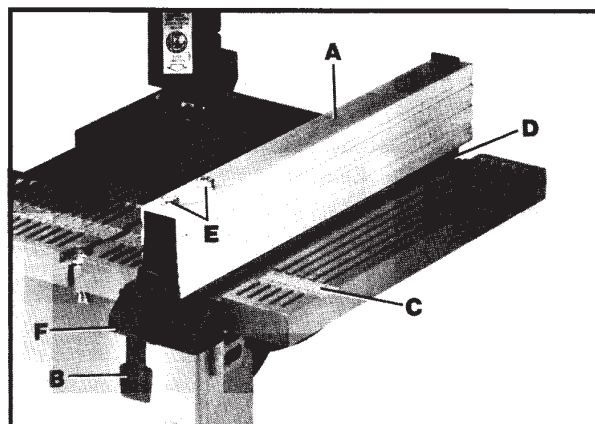


Fig. 25

## TILTING THE TABLE

To tilt the table for angle sawing, loosen table tilting lock handle (A) Fig. 26, and tilt the table until the pointer (B) indicates the desired angle on the scale (C). Then tighten lock handle (A). The table will tilt up to 45 degrees to the front. A positive stop is provided to ensure that the table will always be returned 90 degrees to the blade. See section titled **LEVELING THE TABLE**.

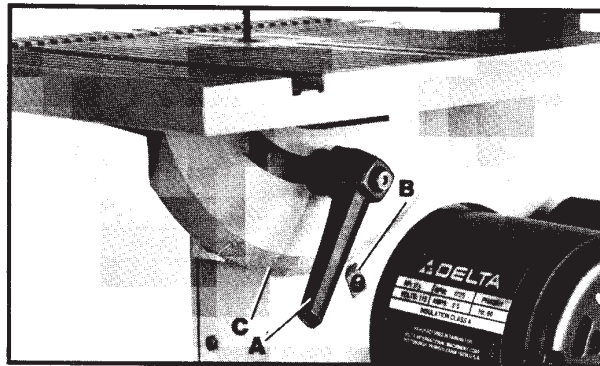


Fig. 26

## LEVELING THE TABLE

Square cuts are made when the table surface is at 90 degrees to the blade. To check and adjust, proceed as follows:

1. Loosen the table tilting lock handle (A) Fig. 27, and tilt the table all the way to the back. Then tighten lock handle (A).
2. Place a square (B) Fig. 27, on the table surface with one end of the square against the side of the blade, as shown, and check to see if the table is 90 degrees to the blade.
3. If an adjustment is necessary, loosen table tilting lock handle (A) Fig. 27, and loosen nut (C). Using wrench supplied with the band saw, tighten or loosen screw (D) until end (E) of screw contacts the frame when the table is 90 degrees to the blade. Then tighten lock handle (A) and nut (C) and adjust pointer to point to the zero degree mark on the table tilt scale.

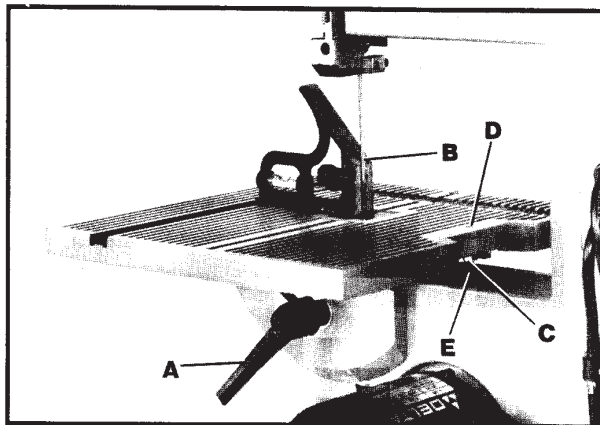


Fig. 27

## CHANGING BLADES

1. Disconnect the machine from the power source.
2. Release blade tension, open hinged door (A) Fig. 28, and remove upper blade guard (B). Remove table alignment screw, washer, and wing nut (C).
3. Carefully remove saw blade (D) Fig. 28.
4. Assemble new 56-1/8" saw blade to both wheels, making sure teeth on saw blade are pointing down toward the table.
5. Adjust blade tension and tracking and replace upper blade guard (B) Fig. 28, and table alignment screw, washer, and wing nut (C).

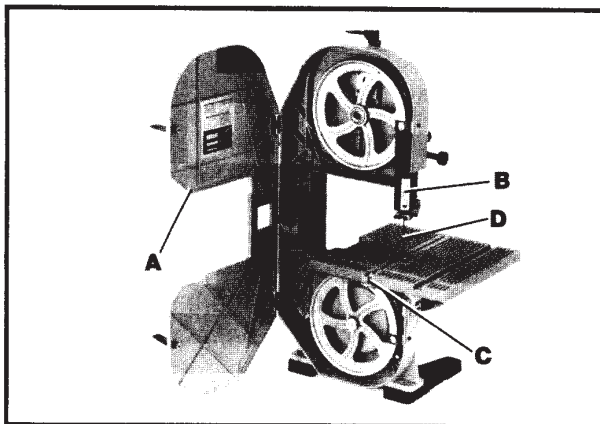


Fig. 28

## MITER GAGE

A miter gage (A) Fig. 29, is supplied with your band saw. The miter gage body (C) can be adjusted up to 45 degrees right and left by loosening lock knob (B), rotating miter gage body (C) to the desired angle, and tightening lock knob (B).

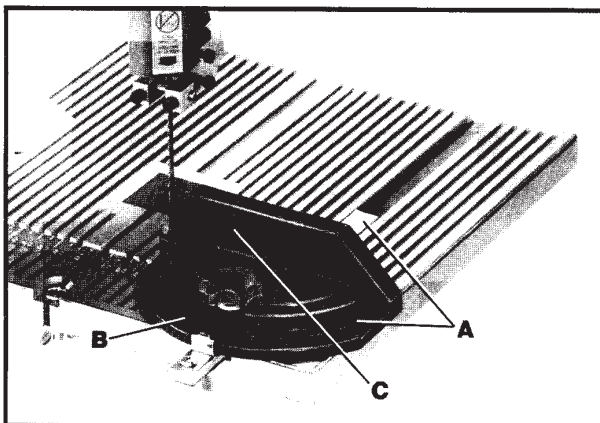


Fig. 29

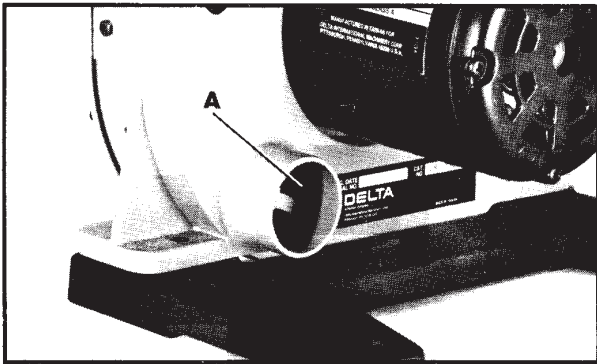


Fig. 30

## DUST CHUTE

A dust chute (A) Fig. 30, is supplied with your bench band saw and is equipped with a 1-1/2" I.D. opening that can easily be connected to a dust collection system.

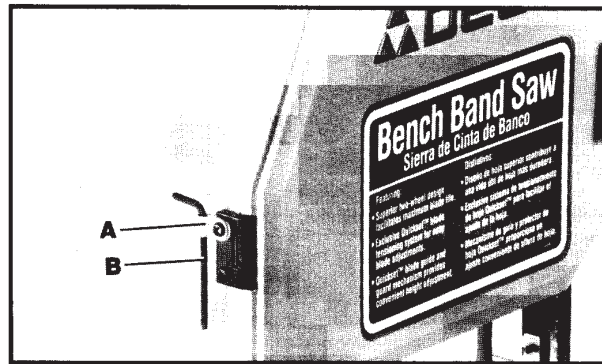


Fig. 31

## WRENCH HOLDER

A wrench holder (A) Fig. 31, is supplied on the back of the saw frame to hold the adjusting wrench (B). The adjusting wrench (B) is used for most of the adjustments on the band saw, and the holder (A) enables you to store the wrench with the saw and prevent the wrench from being lost.

## BLADE AND WHEEL BRUSH

A blade and wheel brush (A) Fig. 32, is supplied inside the band saw frame to prevent sawdust and chips from traveling with the blade. The brush can be adjusted by loosening screw (B) and adjusting holder (A) closer to the wheel. Then tighten screw (B).

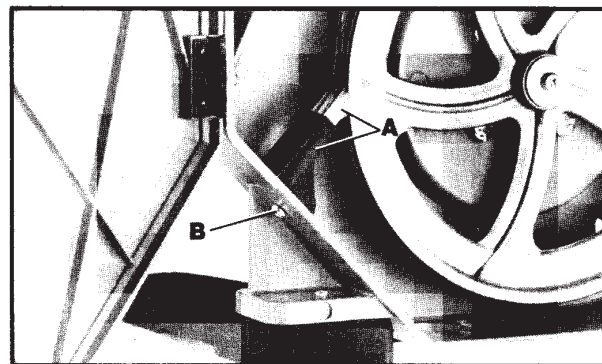


Fig. 32



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