

# Troubleshooting

<b>Problem</b>	<b>Cause</b>	<b>Solution</b>
Board curving	<ul style="list-style-type: none"> <li>• Improper Belt tracking</li> <li>• Dull blade</li> <li>• Blade lead</li> </ul>	<p>See <i>“Belt Tracking Adjustments”</i></p> <p>Replace with new blade</p> <p>Contact Baker Service Dept.</p>
Adjustable blade will not move	<ul style="list-style-type: none"> <li>• Dry or sticky arbor</li> <li>• Blade holder shaft of line</li> <li>• Width setting indicator of line</li> </ul>	<p>Lubricate or clean arbor</p> <p>Align to arbor</p> <p>Adjust rollers</p>

# Contents

Introduction.....	2
Warranty.....	3
Service Policy.....	4
<b>Important: Read this before operating your Baker Heavy-Duty Board Edger...</b>	<b>5</b>
Initial Setup.....	6
Overall View.....	7
Basic Operation.....	8
Changing Blades.....	9
Changing Arbor Belts.....	11
Belt Tracking Adjustments.....	12
Maintenance.....	13
Recommended Spare Parts.....	14
Blades.....	15
Troubleshooting.....	16

# Introduction

Congratulations on the purchase of your new **Baker Heavy-Duty Board Edger**. It should provide you with many years of profitable operation.

Your **Baker Heavy-Duty Board Edger** has been designed to be sturdy, simple, and easy to use by one or more persons.

For safety reasons, and for your own best use of the machine, we do insist that you read and follow this manual fully, and constantly review/refer back to it. Note that this manual may contain details that if not properly followed can affect the performance of your edger. You are responsible for proper installation and maintenance of your edger and we reserve the right to deny warranty work if deemed to be caused by a lack of proper installation, operation, and/or maintenance.

We hope this manual will familiarize you enough with the edger so that you will be able to easily make any adjustments that may ever become necessary.

If you have any questions or comments, please feel free to contact us.

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# Blades

Your **Baker Heavy-Duty Board Edger** uses the following blades:

10" carbide-tipped saw blades (10 teeth per blade)

Blades need to be resharpened every 120 hours or 200 hours during full production or when they become dull.

Using high-quality blades is an important factor in achieving the highest performance out of your **Baker Heavy-Duty Board Edger**. Our machines are tested and set-up using SharpTool blades sold by Baker Products. If you would like more information on these blades and other blades, contact our service department.

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For blade resharpening, we recommend that you contact a reputable saw shop in your area. If none are available, we will be glad to either offer you this service or recommend one.

# Recommended Spare Parts List

To attain the highest production and minimal downtime, the following parts should be kept on hand for your **Baker Board Edger**.

Part Number	Item/Description	Quantity
141122	10" diameter carbide-tipped circular saw blades	3 min.
101014	1" two-bolt flange bearings	1
101080	1¼" two-bolt flange bearings	2
101015	1½" high-speed four-bolt flange bearings	2
181015	Hydraulic pump	1
181019	Hydraulic filter	1
201119	Oil filter (Portable models)	1
201120	Fuel filter (Portable models)	1
201121	Air filter (Portable models)	1
201233	12-Volt Fuel pump	1
111080	24" rough-top belting	60¼" long
111004	B48 (51") Drive Belts (All models)	2
111129	B50 (53") Drive Belts (Portable models)	2
111005	B52 (55") Drive Belts (Stationary models)	4

# Warranty

Ellington Industrial Supply, Inc. machinery is warranted against defects in material or workmanship for a period of not more than one year, starting from the date of shipment. The warranty period of one (1) year covers all items manufactured by and at our manufacturing facilities including structural frame, cowlings, doors, shafting, dust chutes, belt extenders, and conveyor wheels, A warranty of six (6) months will cover miscellaneous vendor-purchased-supplied items including bearings, chain, sprockets, hydraulic components, etc. A warranty period of ninety (90) days, beginning on the shipment date is provided on all electrical parts. All electrical components and wiring has been installed in accordance with the National Electrical Code (NEC) of the United States of America. **Ellington Industrial Supply, Inc. does not warranty this machine to meet any other requirements or jurisdiction of any electrical code of any other state, municipality, or other country.** No warranty is provided on any electrical components or parts if equipment is powered or connected to a roto-phase electrical converter in order to create a three phase power supply for operational current from a single phase source.

Parts claimed defective must be returned freight prepaid, to our plant in Ellington, Missouri. Any part determined defective due to faulty workmanship or materials will be replaced or repaired (at our option) free of charge, F.O.B. our plant. This warranty does not cover expendable items (i.e. drive belts, band wheels, conveyor belting, blades, guides, etc.). Except as expressly provided herein, this warranty is in lieu of all other warranties, expressed or implied, including a warranty of merchantability or fitness for a particular purpose. This warranty is "void" if the unit has been tampered with, modified, altered, or operated with parts other than supplied or recommended by Ellington Industrial Supply, Inc. In no event shall Ellington Industrial Supply, Inc. be liable for special, indirect, incidental or consequential damages, however arising, including but not limited to, the loss of earnings or the cost of downtime.

Ellington Industrial Supply, Inc. does not warranty this machine to meet requirements of any safety codes of any state, municipality or other jurisdiction, and the purchaser assumes all risk and liability whatsoever resulting from the use thereof whether used singularly or in conjunction with other machinery or apparatus, including, but not limited to, all matters resulting from sawdust generation.

Any change in materials, design, or performance intended to improve any product of Ellington Industrial Supply, Inc. shall not obligate Ellington Industrial Supply, Inc. to modify any previously manufactured equipment.

This warranty is given solely to the "**original purchaser**" of the equipment and is in no way to be expressed or implied that it is transferable to any other parties without the written consent and approval from the CEO or Sales Manager of Baker Products.

# Service Policy

In the event that you have any problems, call us at (573) 663-7711 any time between 7:30 AM and 5:00 PM (CST), Monday through Friday. A member of our trained staff will answer any questions you may have. We charge nothing for this service.

The only charge is for replacement parts not covered by warranty or after our inspection we deem that the problem is due to operator error or lack of proper maintenance.

A member of our service department will visit your plant at your request. There is a charge for this service. We charge only to cover our costs and do everything possible to keep these costs down. Call for current prices.

# Maintenance

## Daily

Check engine oil and fuel levels before starting.

Check hydraulic fluid level.

Check drive belts for tension.

## Every 40 hours (once per week)

Check all set screws.

## Every 60 hours (once every 1½ weeks)

Grease arbor bearings with one shot of lithium grease until a slight bead of grease forms at seals.

## Every 200 hours (once every 5 weeks)

Grease drive shaft bearings with one shot of lithium grease.

SPEED	TEMPERATURE	CLEANLINESS	INTERVALS
100 RPM 500 RPM 1000 RPM 1500 RPM	Up to 120° F Up to 150° F Up to 210° F Over 210°- 250°F	Clean Clean Clean Clean	6 - 12 months 2 - 6 months 2 weeks - 2 months Weekly
1500- 2000 RPM	Up to 150° F Over 150°-250°F Any Temp.-250°F Any Temp.-250°F	Dirty Dirty Very Dirty Extreme Conditions	1 week - 1 month Daily - 2 weeks Daily - 2 weeks Daily - 2 weeks

If RPMs exceed 2000, please contact service department for recommendations.

# Belt Tracking Adjustments

Your Baker Heavy-Duty Board Edger has been designed to edge quickly and accurately. During the cutting process, the belt should move the material straight through the blades. If it ever requires adjustment, the following procedure will explain how to properly track the belt.

- 1: Turn power on and allow the engine to run at full throttle.
- 2: Engage conveyor by pulling up on the *on/off valve*.
- 3: The conveyor belt is wrapped around a driven shaft and an idler shaft.. On the both ends of the shaft, on the outside of the frame, there are two *mounting nuts*, an *adjustment bolt* with an *adjustment nut* and a *jam nut*. Loosen the two *mounting nuts*.
- 4: Loosen the *jam nut* and tighten or loosen the *adjustor bolt* accordingly.
- 5: Allow the conveyor to rotate for several minutes to see if adjustment appears to be effective. If not, repeat step 4.
- 6: When the conveyor is tracking properly, tighten the *jam nut* and the *mounting nuts*.

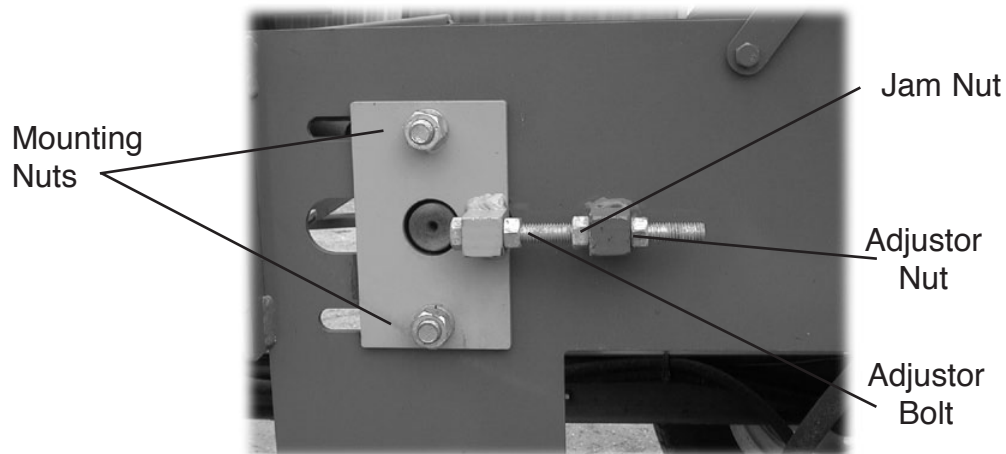


Figure G: End View of Conveyor Shaft

# Important: Read this before operating your Baker Heavy-Duty Board Edger

A visual inspection of the machine each day prior to starting is recommended.

Turn off power, remove key, lock out, and tag out before making any adjustments to the mill.

Some screws may become loosened during transport. Remove all guards and check to see that all set screws on the machine are tight before operating and again after the first week of operation.

Check set screws monthly.

Check hydraulic fluid tank for proper fluid level. If needed, fill hydraulic fluid tank using Dexron III/Mercon hydraulic fluid.

On portable models, do not refill fuel tank while the engine is running.

Always wear proper eye and ear protection when operating the mill.

Never wear loose clothing when operating the machine.

Never place your fingers beyond the anti-kick dogs.

Check for cracked or worn Drive Belts.

# Initial Setup

## Stationary Models

Hooking up electrical systems should be done by a qualified electrician. All voltages are available. The standard is 220 volts or 440 volts, 3-phase, at 60 hertz. The machine is completely prewired with NEMA 12 enclosure, including starters, disconnects, and circuit overload protectors. This is required to make your mill operate properly.

From a fused disconnect box, run one set of 3-phase wires to the machine.

For saw dust removal, the **Baker Heavy-Duty Board Edger** is equipped to accept a 6" round pipe. A minimum of 1,300 cubic-feet-per-minute (CFM) is required.

## Portable Models

Choose a reasonably level ground to park the edger. Unhook the hitch from the ball and use the jack to clear the front of the machine from the bumper. On both sides of the back portion of the edger, there are two (2) adjustable leveling jacks. Make sure the edger is reasonably level before operating.

# Changing Arbor Belts

- 1: Turn off power.
- 2: Remove belt guard.
- 3: Directly behind the engine, on the top of the outfeed end, there are three bolts. Relieve tension on the belts by loosening the jam nuts on the belt tensioner bolts and the stabilizer bolt. Then loosen the bolts. (See Figure E).
- 4: Replace the belts onto the *engine drive pulley* and *blade drive pulley* (#50 belts for gasoline and #B52 belts for electric models). See Figure F.
- 5: Loosen tension on hydraulic pump pulley and blade drive pulley. Replace one #B48 drive belt onto the *hydraulic pump pulley* and *blade drive pulley*. See Figure F.
- 6: Tension the belts by tightening the bolts and the jam nuts. On the hydraulic pump belt, tension the belt by sliding the pump to the left.

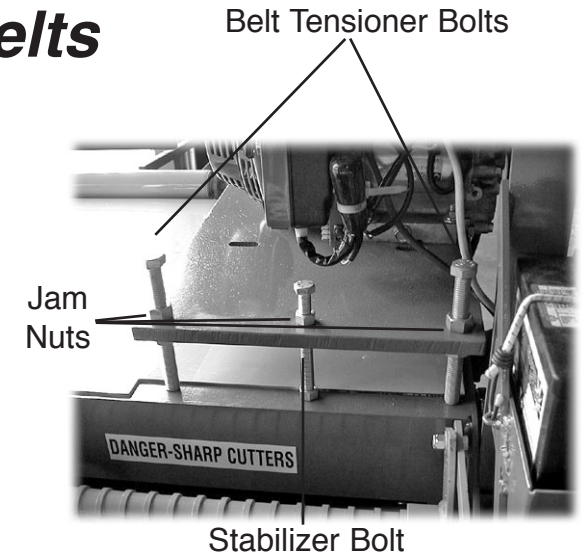


Figure E: Outfeed End of Conveyor

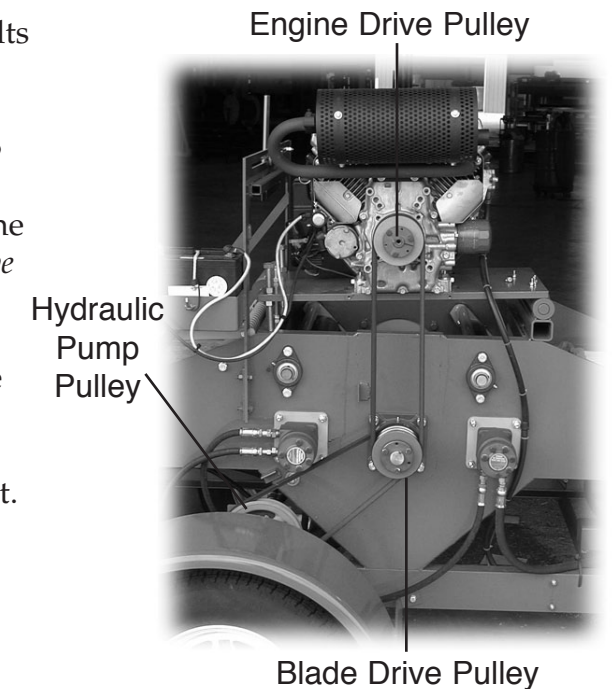


Figure F:



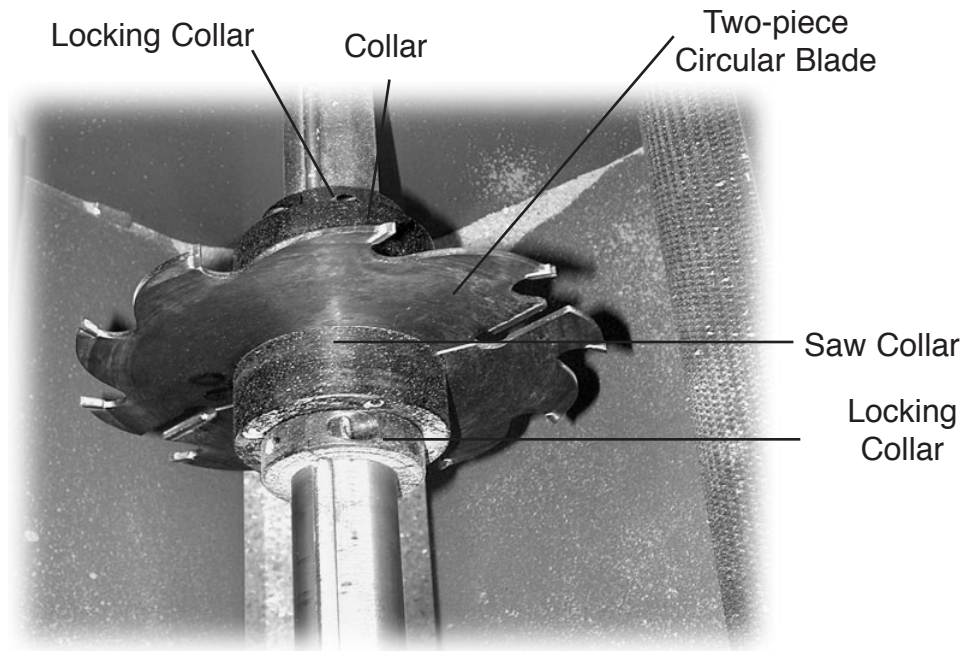


Figure C: Movable Circular Blade

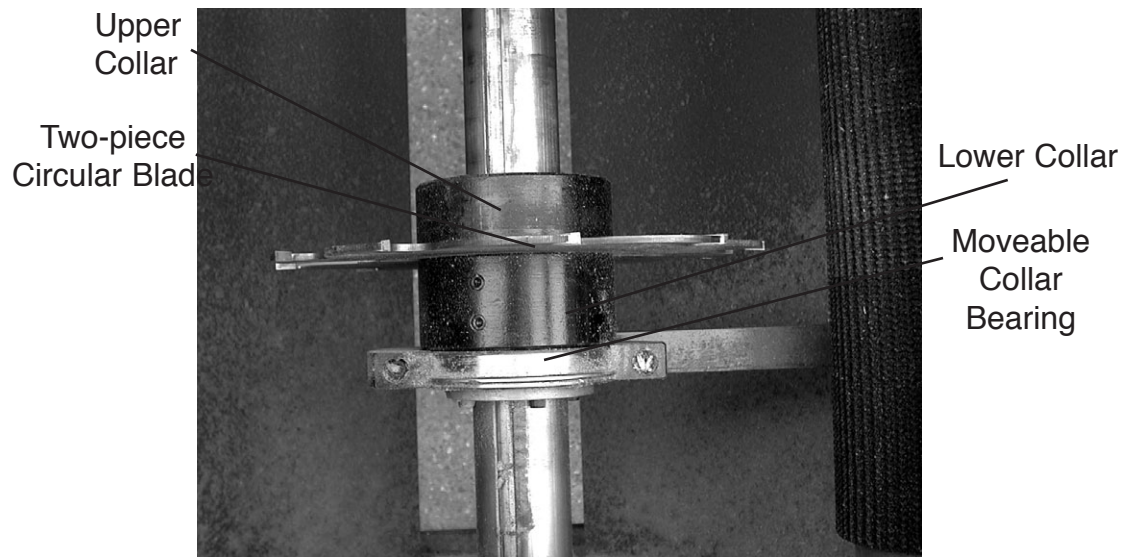
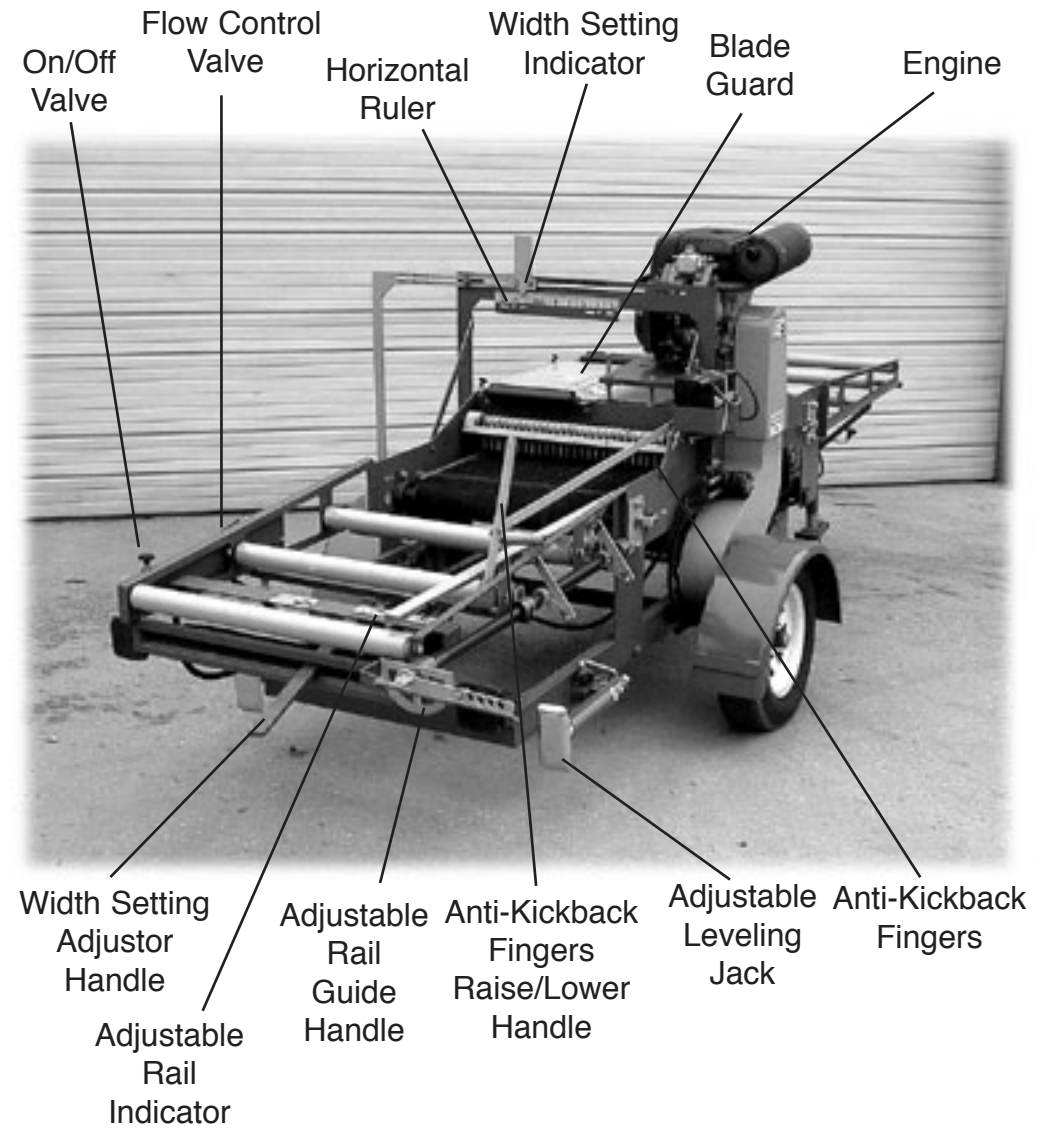


Figure D: Fixed Circular Blade

## Overall View



## Basic Operation

- 1: Turn on power if electric. If gasoline-powered, start the engine.
- 2: Pull up on the *on/off valve* to activate the conveyor. To turn off the conveyor at anytime, push the *on/off valve* down. (See Figure A).
- 3: The conveyor speed is set using the *flow control valve*. The speed setting ranges from 1 to 10, on the *flow control valve*, with 10 representing the highest speed. (See Figure A).
- 4: If the flitch has only one barky side, use the *adjustable rail* to bypass the fixed blade by sliding it to the left until it set at 0 (See Figure B). The maximum flitch width allowed is 18" when using the *adjustable rail*. If the flitch has two barky sides, there is no need to use the *adjustable rail*. In this case, the maximum flitch width allowed is 29" and the cut width ranges from 3½" to 18" and the flitch thickness ranges from ½" to 2¼".
- 5: Place the flitch on the rollers preceding the conveyor. Slide it forward and make sure that the right side of the flitch is against the *adjustable rail guide*.
- 6: When the flitch is being cut, do not attempt to make width adjustments as it may cause jamming. If so, turn off the machine and raise the *anti-kickback fingers* up and remove the board. **NEVER** place your fingers beyond the *anti-kickback fingers*. Doing so could cause serious injury!

Flow Control Valve      On/Off Valve

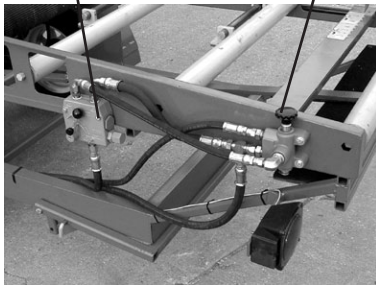


Figure A: Front Left Side of Edger

Adjustable Rail Indicator      Adjustable Rail Guide



Figure B: Adjustable Rail Components

## Changing Blades

- 1: Turn off power, lock out, and tag out. If the edger is gasoline powered, remove the key from the ignition.
- 2: Remove the blade guard (a yellow steel plate) that is mounted directly underneath the engine.
- 3: On the fixed blade, loosen the locking collar on the left side and slide it opposite the blade. Loosen the four bolts on the saw collar. Remove the blade and replace with a new blade.
- 4: On the *movable blade*, open it all the way to the left by sliding the *width setting adjustor handle* to the right. Then, loosen the four bolts on the *collar* and slide it away from the blade.
- 5: Slide the *lower collar* until it is against the blade and tighten the four bolts. Then slide the *locking collar* until it is against the blade and tighten the bolt.
- 6: Replace the dull, two-piece circular blade with a new, sharp, two-piece blade.
- 7: Reassemble the blades in the order they were disassembled.
- 8: Replace the blade guard.