INSTRUCTIONS

MODELS 5700 & 5701 MEAT SAWS

5700	ML-32386
5700-D	ML-32389
5701	ML-32392
5701-D	ML-32395

a product of

HOBART
CORPORATION
WORLD HEADQUARTERS
TROY, OHIO 45374

FORM 14625A (11-84)

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Installation, Operation and Care of MODELS 5700 & 5701 MEAT SAWS

SAVE THESE INSTRUCTIONS

GENERAL

The 5700, 5700-D, 5701 and 5701-D Meat Saws are designed to quickly process large quantities of product. Each is equipped with a 3 H.P. motor and direct-drive transmission (thus eliminating V-belt drive) which combine to provide a blade speed of 3500 feet per minute. A reduced voltage pilot circuit is provided on machines with an operating voltage is excess of 250 volts. Motor overload protection is offered as an option.

One long-life blade is furnished with each saw as standard equipment. This blade cannot be resharpened; replacement blades are available through your local Hobart Service Office.

The 5700 and 5700-D feature an inclined column and head. The resultant inclined blade path provides for less feed effort by the operator without self-feeding the product through the saw.

The models 5700-D and 5701-D feature a stainless steel base.

INSTALLATION

UNPACKING

Place the machine as close to its operating position as possible. Remove and unpack the cartons from the top of the saw. One of these boxes contains the carriage support, braces, and fasteners; one contains the carriage and the upper pulley; and the other one contains the blade, blade scrapers, gauge plate handle, pusher plate, and scrap tray.

Immediately after unpacking the machine and its components, check them for possible shipping damage. If this machine is found to be damaged after unpacking, save the packing material and contact the carrier within 15 days of delivery.

Prior to installing this machine, test the electrical service to assure that it agrees with the specifications on the machine data plate (located on the left side of the column).

Level the machine front-to-back and side-to-side by placing a spirit level on top of the base unit and turning the threaded feet as necessary. The meat saw MUST be level prior to being assembled.

ASSEMBLY

The carriage, carriage support, and tables all have a sticker with a three-digit number. These numbers MUST correspond to the last three digits of the machine serial number which can be found on the machine data plate. If these numbers don't correspond, DO NOT assemble the machine; contact your local Hobart Service Office.

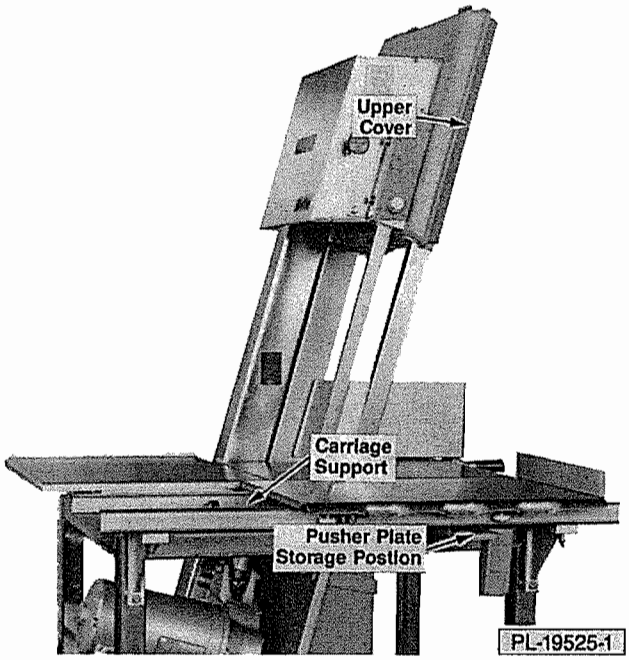


Fig. 1

Install the carriage support (Fig. 1), which was packed with its braces and fasteners in one of the cartons taped on top of the saw.

Place each of the table supports on the frame as shown in Fig. 2 and secure them with a cap screw and lock washer. Thread a jack screw (Fig. 2) into each of the supports (the end of the jack screw with two holes is the bottom).

Place the carriage support in position and fasten it to the frame (finger-tight) with two cap screws and stainless steel washers (Fig. 3). Fasten the carriage support (finger-tight) to each table support with a cap screw and stainless steel washer on top and the nut and a stainless steel lock washer on the bottom (Fig. 3).

Before securing the carriage support and braces, you must first align the support. To do this, the carriage (Fig. 1), packed in a carton on top of the machine, must be installed.

Turn one of the L-shaped carriage stops (Fig. 3) so that the rubber bumper is facing the rear of the machine. With the scalloped edge of the carriage toward the front, roll the carriage into position and turn the carriage stop back (Fig. 4).

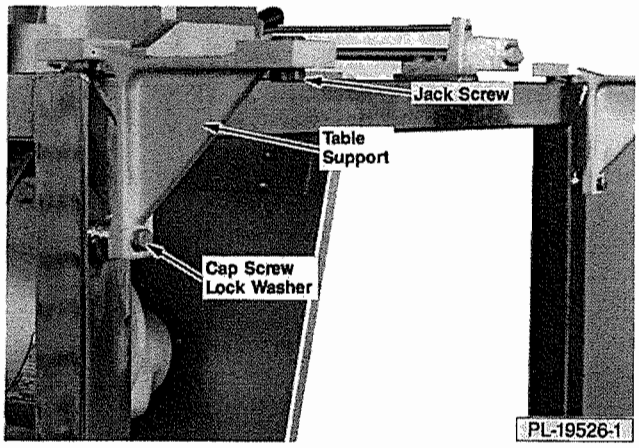


Fig. 2

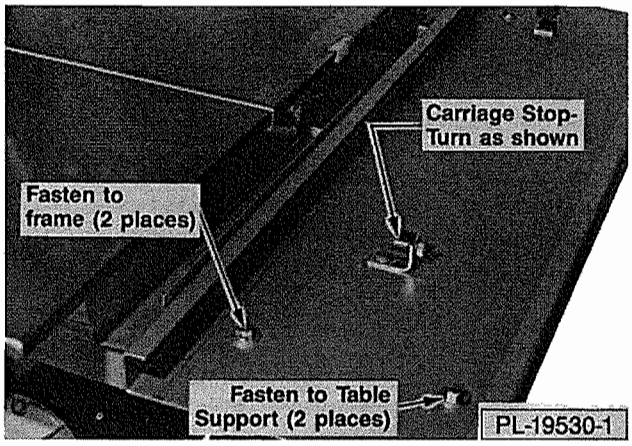


Fig. 3

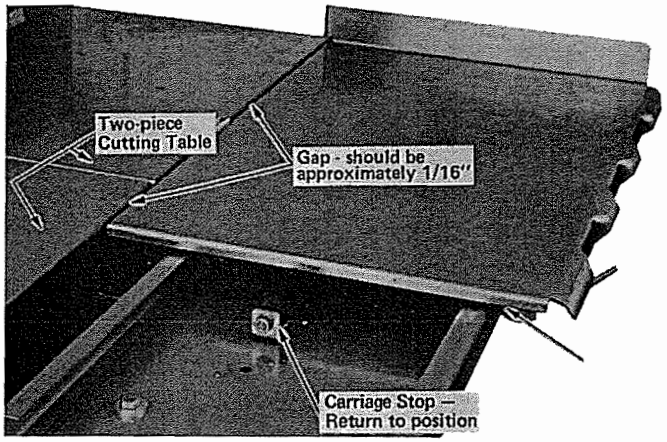


Fig. 4

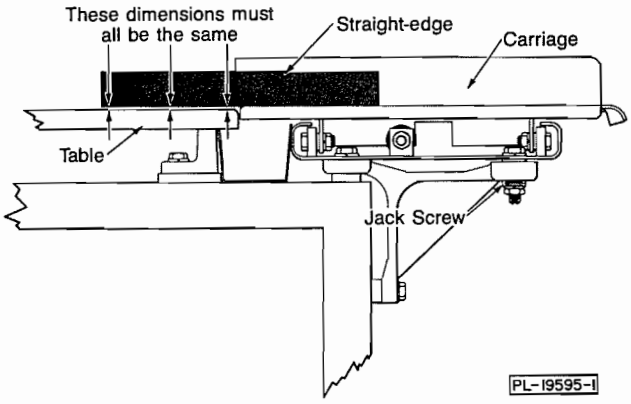


Fig. 5

The carriage rollers (Fig. 4) must be in contact with (rolling against) the edge of the carriage support, and carriage side play should be minimal without binding. If an adjustment is necessary, refer to page 16 for instructions on how to adjust carriage side play.

The edges of the carriage and the two-piece cutting table (Fig. 4) must be parallel and the gap between them must be approximately 1/16" (.030" to .093"). Adjust the carriage support side-to-side to meet these requirements and tighten the two bolts which secure the carriage support to the frame.

The top surfaces of the carriage and tables must also be parallel. To check this, place a straight-edge across the carriage and table as illustrated in Fig. 5. There must be a clearance between the straight-edge and table of .005" to .187" and this clearance MUST be constant (equal) over the length of the straight-edge (see Fig. 5). Adjust the jack screws (Fig. 5) up or down to meet these requirements at both ends of carriage travel and securely tighten the two bolts which hold the carriage support to the jack screw.

If carriage height or alignment cannot be properly adjusted, contact your local Hobart Service Office prior to using the saw.

Install the scrap tray between the left-hand table and the carriage support (Fig. 6). Screw the gauge plate handle onto the gauge plate.

Install the upper pulley (shipped with carriage) by first removing the upper cover (Fig. 1) and then sliding the pulley (with latch facing outward) onto the shaft (Fig. 7). Lock the pulley in place by turning the latch (Fig. 7). Make sure that the pulley latch is seated in the groove in the shaft.

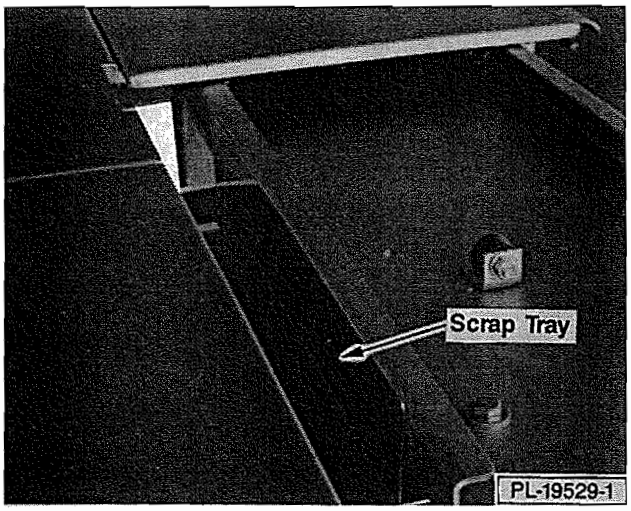


Fig. 6

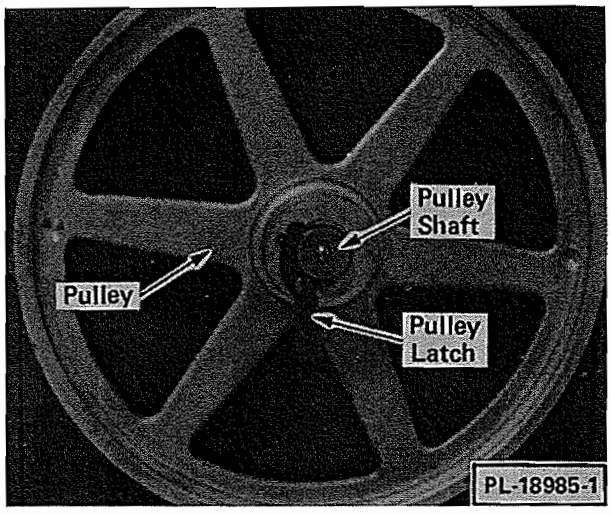


Fig. 7

The blade should be installed next.

Raise the gauge plate out of the way (Fig. 8) and remove the right-hand table (Fig. 8) by lifting the end and sliding the table off of its locating pins.

Lift the column guard (Fig. 9) off of its mounting pins.

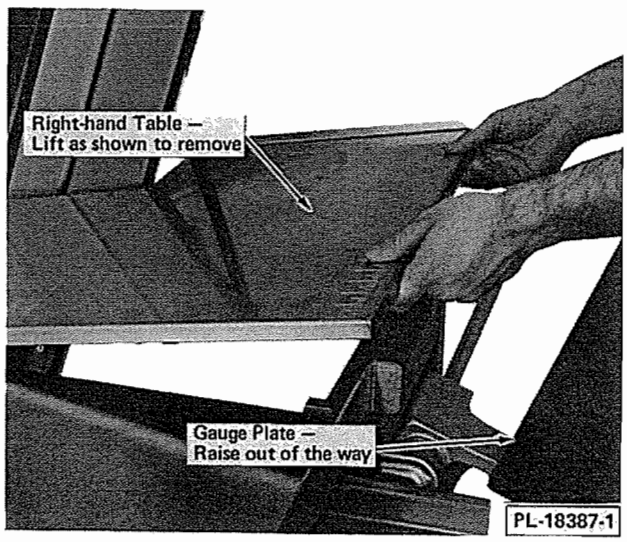


Fig. 8

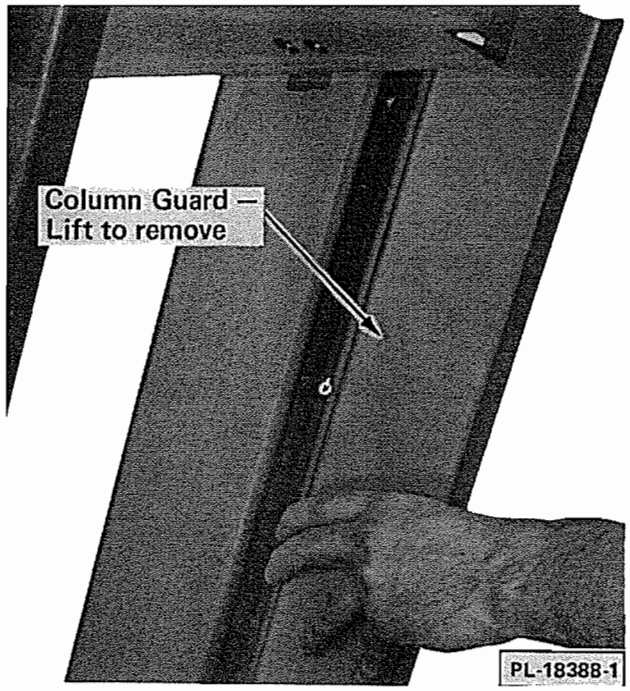


Fig. 9

Slide the blade scrapers (Fig. 10) onto their mounting blocks. The left-hand scraper points up and the right-hand scraper points down.

Raise the lower pulley by turning the tension adjuster (Fig. 10) counterclockwise until it stops.

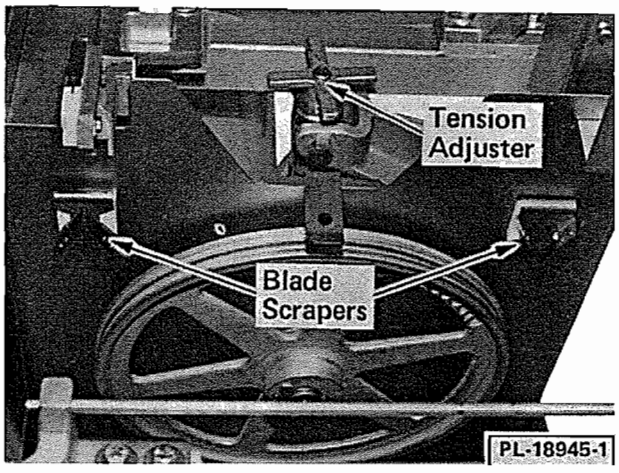


Fig. 10

Put the blade on the pulleys so the teeth point to the right and down when facing the front of the machine. The blade must fit between the V's on the scrapers and in the slots of the upper and lower blade guides and must not touch any of the pulley flanges. **NOTE:** On models 5701 and 5701-D, the lower blade guide must be installed after the blade is installed.

Set the blade tension by turning the tension adjuster clockwise until it stops.

Replace the column guard, upper and lower covers, and the right-hand table.

Store the pusher plate on the underside of the carriage support (Fig. 1).

Check the side-to-side movement of the carriage. It should be minimal without causing the carriage to bind. If an adjustment is required, refer to ADJUSTMENTS in the MAINTENANCE section of this manual.

ELECTRICAL CONNECTIONS

WARNING: ELECTRICAL AND GROUNDING CONNECTIONS MUST COMPLY WITH THE APPLICABLE PORTIONS OF THE NATIONAL ELECTRICAL CODE AND/OR OTHER LOCAL ELECTRICAL CODES.

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY AND PLACE A TAG AT THE DISCONNECT SWITCH INDICATING THE CIRCUIT IS BEING WORKED ON.

BRANCH CIRCUIT SIZE AND PROTECTION

DUAL ELEMENT TIME-DELAY FUSE

Volts	Phase	Minimum Circuit Ampacity	Maximum Fuse Size	60°C Copper Wire Size
230	1	25	25	10
200-230	3	20	20	12
460	3	15	10	14

INVERSE TIME CIRCUIT BREAKER

Volts	Phase	Minimum Circuit Ampacity	Maximum Circ. Bkr. Size	60°C Copper Wire Size
230	1	30	30	10
200-230	3	20	20	12
460	3	15	15	14

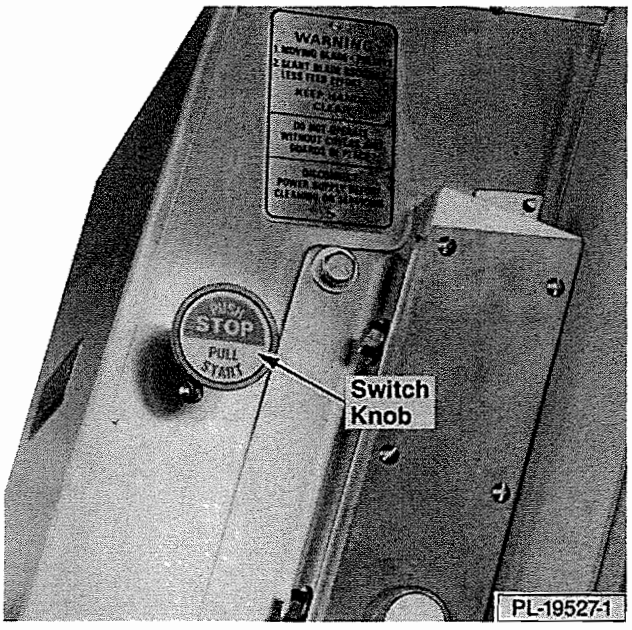


Fig. 11

A 7/8" diameter hole is provided in the column for connecting 1/2" trade size conduit. Connect the electrical power supply leads to the pigtail leads.

In three-phase applications, a check must be made to verify correct direction of motor rotation. Turn on the electrical power supply and momentarily energize the machine by pulling and then pushing the switch knob (Fig. 11). The front half of the blade must travel in the downward direction (pulleys will rotate counterclockwise).

If rotation is incorrect, **DISCONNECT ELECTRICAL POWER SUPPLY** and interchange any two of the power supply leads (not the ground lead). Re-energize the machine momentarily and verify correct rotation.

CLEANING

This machine MUST be thoroughly cleaned and sanitized after installation and before being put into service. Refer to the CLEANING section of OPERATION for instructions.

OPERATION

SAFETY

SAFETY DEVICES INCORPORATED IN THIS SAW MUST BE IN THEIR CORRECT OPERATING POSITIONS ANYTIME THE SAW IS IN USE.

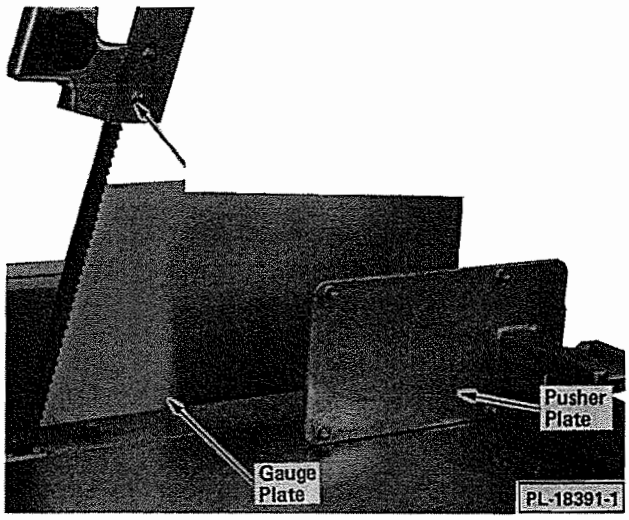


Fig. 12

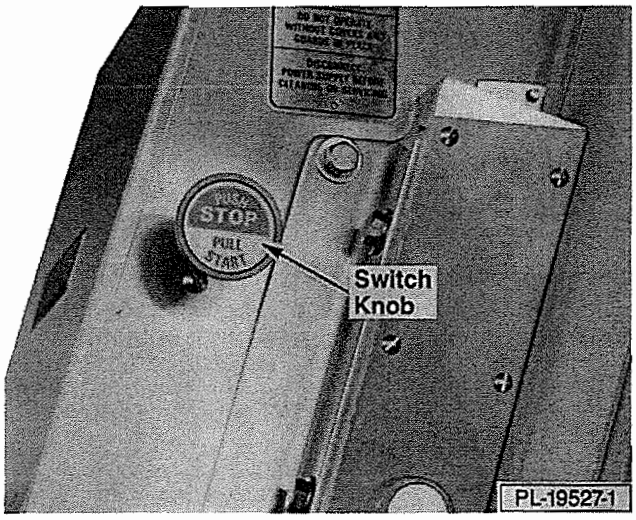


Fig. 13

Before turning on the meat saw, move the BLADE GUARD (Fig. 12) as close to the work as possible by grasping the hand knob and sliding the guide up or down as necessary.

Always keep hands well back from the blade and maintain control of the product. The PUSHER PLATE (Fig. 12) must be used when cutting short ends to keep your hands away from the saw blade.

All COVERS and GUARDS must be in their operating position (closed) while the machine is running.

RECOMMENDED BLADES

In order to ensure optimum performance, the proper meat saw blade must be used for each application.

For general purpose cutting, use a four-teeth-per-inch blade.

For boneless products, use a scalloped blade.

For soft products (such as pork, veal, lamb, and chicken), use an eight-teeth-per-inch blade.

Do not use three-teeth-per-inch blades on models 5700 and 5700-D.

CONTROLS

The switch knob (Fig. 13) must be pulled to start the saw. Push the knob in to stop the machine.

The gauge plate (Fig. 12) is used to assure cuts of uniform thickness.

SAWING

Place the product on the carriage and adjust the blade guard (Fig. 12) before pulling the switch knob (Fig. 13) to start the machine.

Stand in front of the saw, leaning lightly against the scalloped front edge of the carriage. Move the carriage to the left, past the saw blade, at a steady rate. **WARNING:** MACHINES WITH THE INCLINED BLADE PATH REQUIRE LESS FEED EFFORT.

Use your left hand to remove and stack cuts. NEVER REACH IN FRONT OF THE BLADE; always reach around the left side (in back) of the blade. On the return stroke, pull the product toward you, away from the blade.

Use the pusher plate (Fig. 12) to hold short ends against the gauge plate. Fit the slot in the pusher plate down over the right edge of the carriage and hold the pusher plate handle with your hand when moving the carriage.

To cut with uniform thickness (or when using the pusher plate), set the gauge plate as desired by pushing the lock lever (Fig. 14) and sliding the gauge plate into position. A scale (Fig. 14) is etched on the table for reference.

If the gauge plate is not needed, it may be moved to the rear of the machine and raised to a vertical position, thus keeping it out of your way. Store the pusher plate on the underside of the carriage (Fig. 15) when it is not being used.

If desired, the carriage can be locked in a stationary position by slightly pulling the carriage lock out, rotating it 90°, and sliding the carriage until the lock engages (Fig. 15). To unlock the carriage, pull the carriage lock out and rotate it 90° so that it rests on its bracket (Fig. 15).

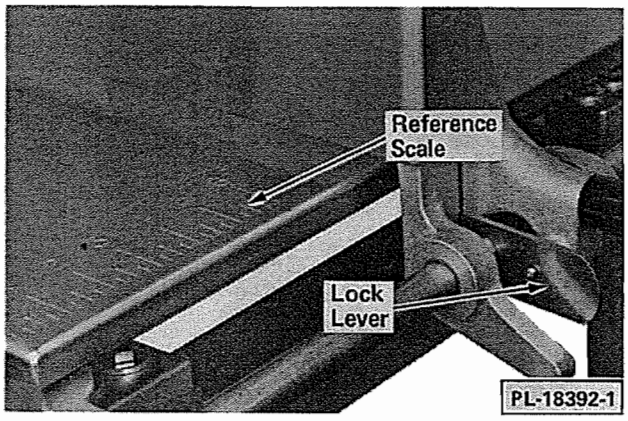


Fig. 14

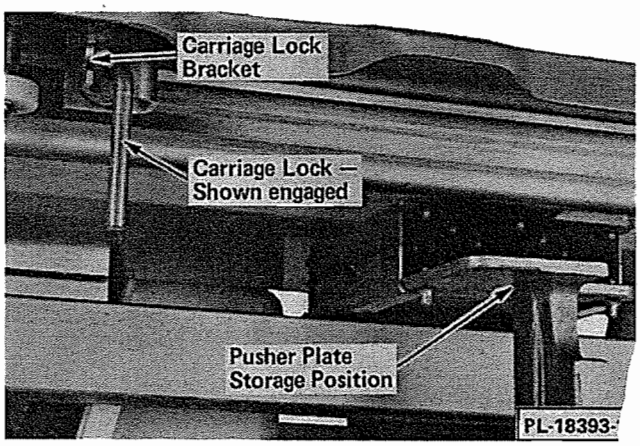


Fig. 15

CLEANING

This machine MUST be thoroughly cleaned and sanitized after each day's operation or anytime it is not to be used for an extended period of time.

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY AND PLACE A TAG AT THE DISCONNECT SWITCH INDICATING THE CIRCUIT IS BEING WORKED ON BEFORE CLEANING THIS MACHINE.

The meat saw can be cleaned with high-pressure cleaning equipment (available from other suppliers) or it can be disassembled and its components cleaned in a sink. In either case, a neutral pH cleaning agent MUST be used and it must be mixed per the supplier's instructions. After washing, THOROUGHLY RINSE THE SAW AND ALL COMPONENTS.

High-pressure Cleaning

When using high-pressure cleaning equipment, you must first remove several components to allow adequate access to all areas.

Unlatch and remove the upper and lower covers (Fig. 16). The lower cover serves as a scrap pan and should be emptied at this time.

With the gauge plate raised to its vertical position (Fig. 17), lift the end of the right-hand table (Fig. 17) and slide it off of its locating pins.

Lift the column guard (Fig. 16) off of its mounting pins.

Scrape the machine and its components to remove any scrap particles prior to hosing.

Thoroughly hose the machine and the removed components per the equipment supplier's instructions. Be sure to roll the carriage from one end to the other to assure adequate cleaning beneath it.

Prior to reassembly, a light coating of tasteless mineral oil should be applied to all metal surfaces. Reassemble the machine components in the reverse order of disassembly.

Sink Cleaning

If high-pressure cleaning equipment is not available, the machine will have to be disassembled and thoroughly cleaned in a sink.

Unlatch and remove the upper and lower covers (Fig. 16). The lower cover serves as a scrap pan and should be emptied at this time.

Roll the carriage (Fig. 16) to either end of its travel. Turn the L-shaped carriage stop (Fig. 16) 90° and roll the carriage off of the carriage support. Remove the scrap tray (Fig. 16).

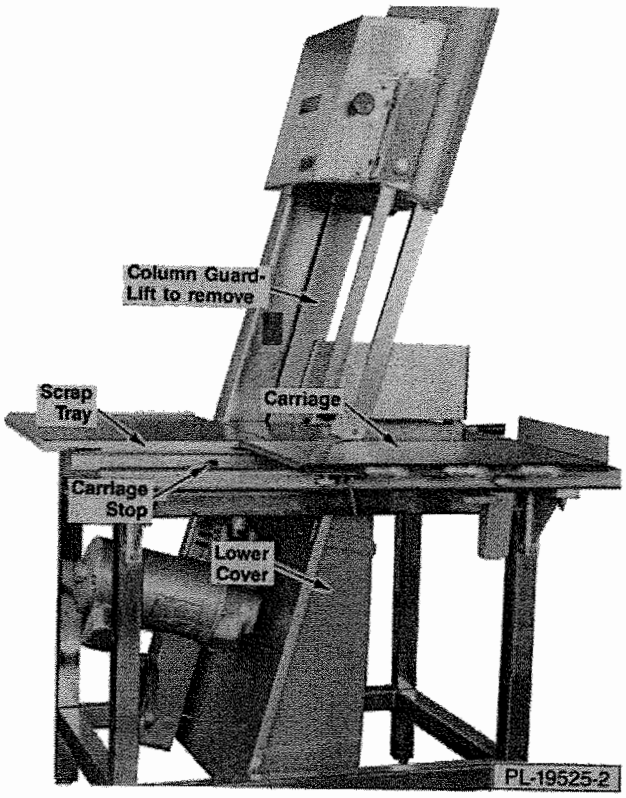


Fig. 16

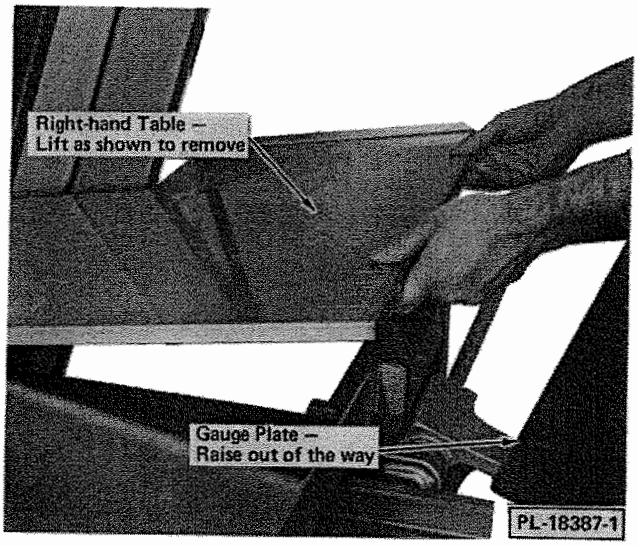


Fig. 17

With the gauge plate raised to its vertical position (Fig. 17), lift the end of the right-hand table (Fig. 17) and slide it off of its locating pins. The left-hand table is removed in the same manner.

Lift the column guard (Fig. 16) off of its mounting pins.

Remove the lower blade guide (Fig. 18) by rotating the plastic piece to a vertical position and lifting the guide out.

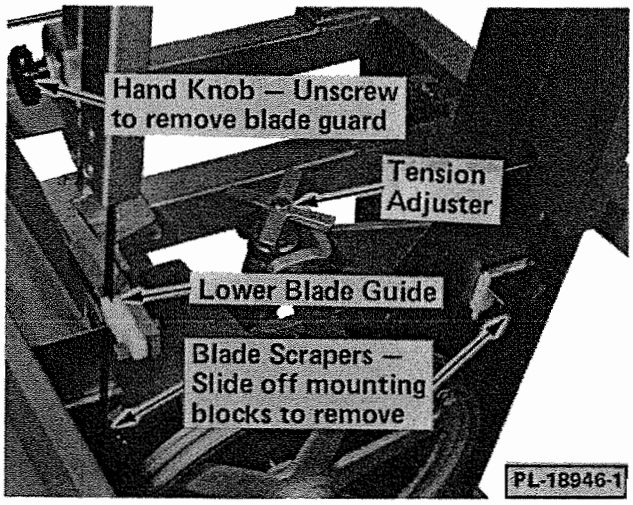


Fig. 18

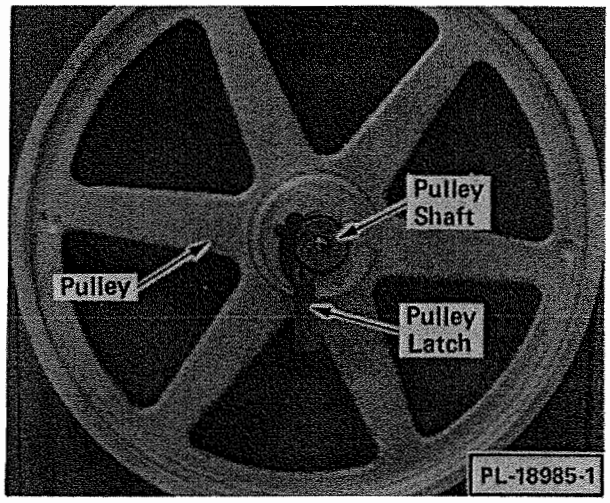


Fig. 19

Turn the tension adjuster (Fig. 18) counterclockwise to release blade tension and remove the blade.

Remove the blade scrapers (Fig. 18) by sliding them off of their mounting blocks.

Unscrew the blade guard hand knob (Fig. 18) and remove the guard assembly.

Remove the upper and lower pulleys (Fig. 19) by turning the latches (Fig. 19) and sliding pulleys off of their shafts. On models 5701 and 5701-D, the lower pulley wiper must be removed before removing the lower pulley. The pulleys are interchangeable, therefore, you needn't keep them separated.

The removed components must be cleaned in a sink. The remainder of the machine will need to be cleaned with the same cleaning solution as the removed components, using a cloth or brush.

Prior to reassembly, a light coating of tasteless mineral oil should be applied to all metal surfaces. Reassemble the machine in the reverse order of disassembly. **NOTE:** When installing the blade, proper blade tension is achieved by turning the tension adjuster clockwise (with the blade centered on the pulleys) until it reaches its stop.

MAINTENANCE

WARNING: DISCONNECT ELECTRICAL POWER SUPPLY AND PLACE A TAG AT THE DISCONNECT SWITCH INDICATING THE CIRCUIT IS BEING WORKED ON BEFORE BEGINNING ANY MAINTENANCE PROCEDURE.

LUBRICATION

The motor has permanently lubricated ball bearings and, therefore, requires no lubrication maintenance.

The blade guide slide bar also requires no lubrication.

Occasionally, you should apply a small amount of grease or oil to the four ball bearing rollers on the bottom of the carriage (Fig. 20).

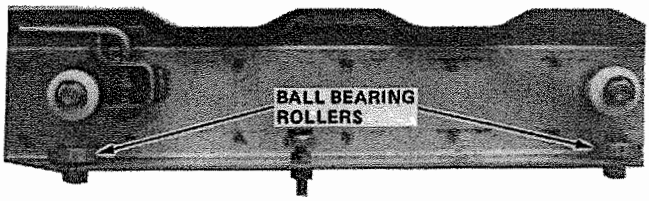


Fig. 20

On a more frequent basis, the gauge plate slide rod (Fig. 21) and the pulley shafts will need a few drops of tasteless mineral oil.

BLADE REPLACEMENT

DISCONNECT ELECTRICAL POWER SUPPLY and unlatch and remove the upper and lower covers.

With the gauge plate raised to its vertical position (Fig. 22), lift the end of the right-hand table (Fig. 22) and slide it off of its locating pins.

Lift the column guard off of its mounting pins.

Turn the tension adjuster (Fig. 23) counterclockwise to release blade tension and remove the blade.

Install the new blade on the pulleys making sure that the teeth point to the right and down when facing the front of the machine. The blade must fit between the V's on the scrapers (Fig. 23) and in the slots of the upper and lower blade guides (Fig. 24) and must not touch any of the pulley flanges. **NOTE:** On models 5701 and 5701-D, the lower blade guide must be installed after the blade is installed.

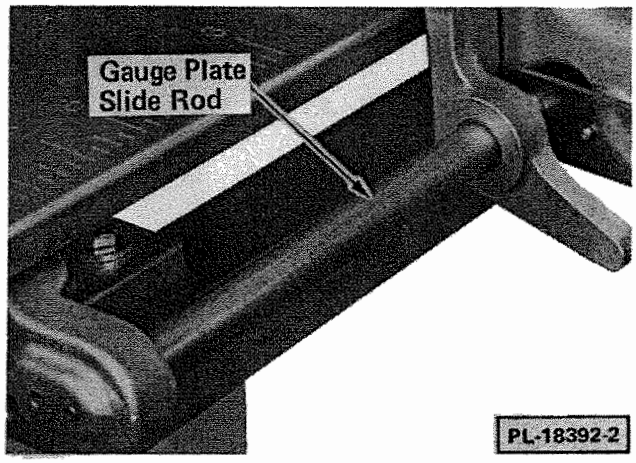


Fig. 21

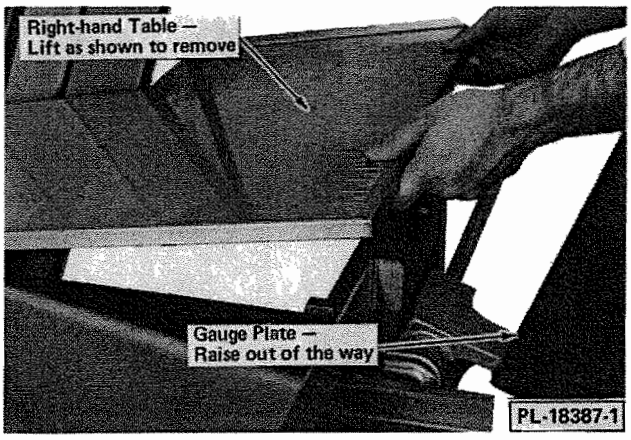


Fig. 22

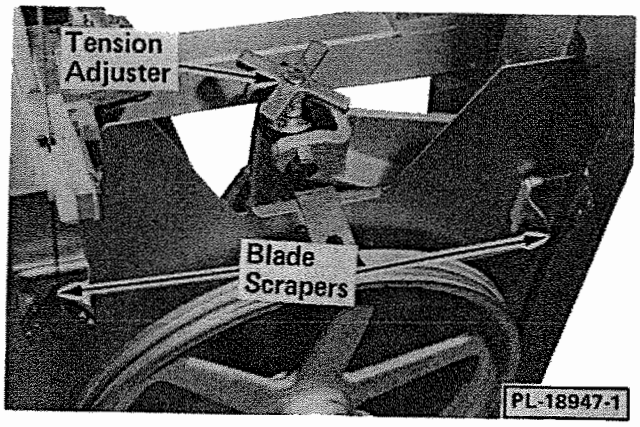


Fig. 23

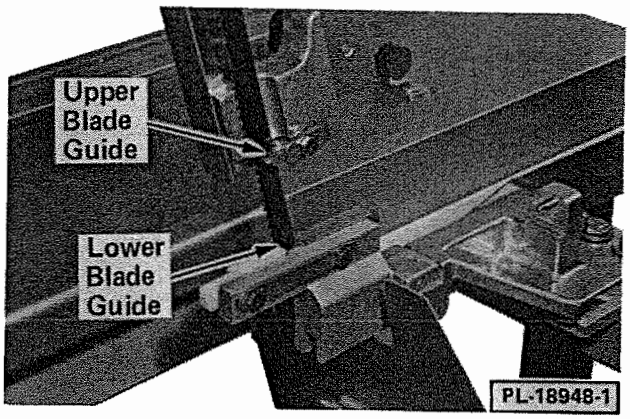


Fig. 24

If the blade does not fit properly, contact your Hobart Service Office.

Set the blade tension by turning the tension adjuster clockwise until it stops.

Replace the removed components in the reverse order of disassembly.

The upper and lower blade guides must now be checked for proper adjustment. Refer to ADJUSTMENTS.

ADJUSTMENTS

Blade Guides

The blade must pass through the center of the blade guides and must clear the back-up blocks by approximately 1/32".

If an adjustment is necessary, the lower blade guide must be adjusted first.

DISCONNECT ELECTRICAL POWER SUPPLY and remove the blade guard assembly by unscrewing the hand knob (Fig. 25).

With the upper cover removed, turn the upper pulley counterclockwise several revolutions.

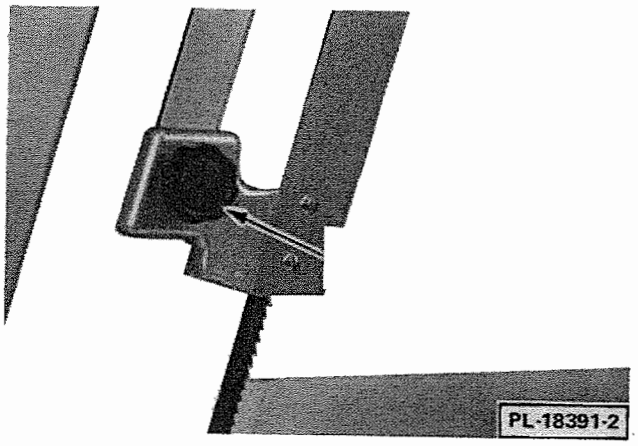


Fig. 25

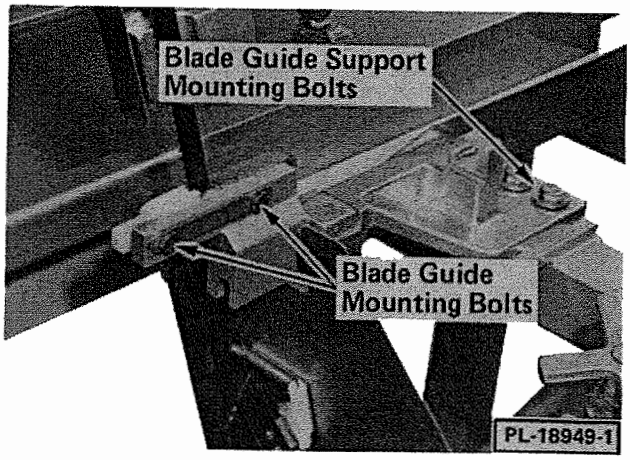


Fig. 26

Loosen the blade guide mounting bolts (Fig. 26) and move the guide so that the clearance between the blade and the back of the guide slot is approximately 1/32". Tighten the bolts.

If the blade is not centered in the guide and/or proper clearance cannot be achieved with blade guide adjustment, loosen the blade guide support mounting bolts (Fig. 26) and move the blade guide support so the blade

is in the center of the guide (Fig. 26) and approximately 1/32" from the back of the guide slot. Tighten the two mounting bolts.

The previous adjustment may necessitate adjusting the table locator assembly to the left or right in order to maintain proper spread between the table locating pins (12-1/2"). If necessary, loosen the two bolts on the table locator assembly, move it to the right or left as necessary, and tighten the bolts. If further adjustments are necessary, contact your Hobart Service Office.

Rotate the upper pulley counterclockwise and recheck adjustments. Replace the upper blade guide assembly.

With the lower blade guide properly adjusted, the upper guide can be adjusted.

DISCONNECT ELECTRICAL POWER SUPPLY and loosen the two bolts (Fig. 27); move the slide bar assembly (Fig. 27) so that the blade will pass through the center of the guide. Tighten the two bolts.

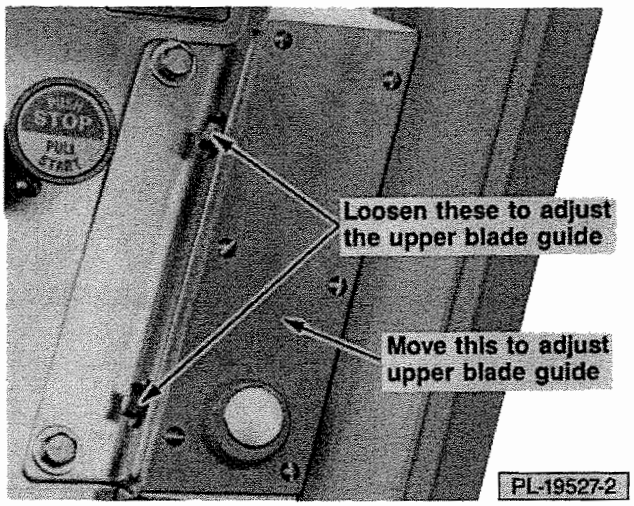


Fig. 27

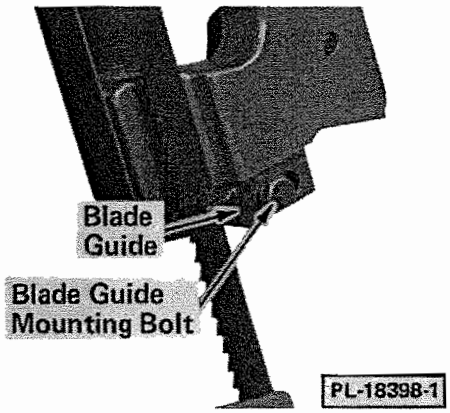


Fig. 28

Move the guide assemby up and down through the entire travel. The blade must be centered in the blade guide through the entire travel.

Loosen the blade guide mounting bolt (Fig. 28) and move the blade guide (Fig. 28) so that the clearance between the blade and the back of the guide slot is approximately 1/32". Tighten the bolt.

Move the guide assembly up and down through its entire travel. The clearance must be 1/32" through the entire travel.

Rotate the upper pulley counterclockwise and recheck adjustments.

Slide Bar

Tension on the slide bar (Fig. 29) should be such that it will remain in any position without sliding down on its own, but it should move up and down without binding.

If an adjustment is necessary, **DISCONNECT ELECTRICAL POWER SUPPLY.**

Remove the plug button (Fig. 29)

Loosen the set screw (Fig. 30). Thread the carrier screw (Fig. 30) all the way in and then back it out 1/4 to 1/2 turn.

Tighten the set screw so that it applies sufficient pressure to hold the slide bar in any position but leaves it free to move up and down without binding.

Replace the plug button.

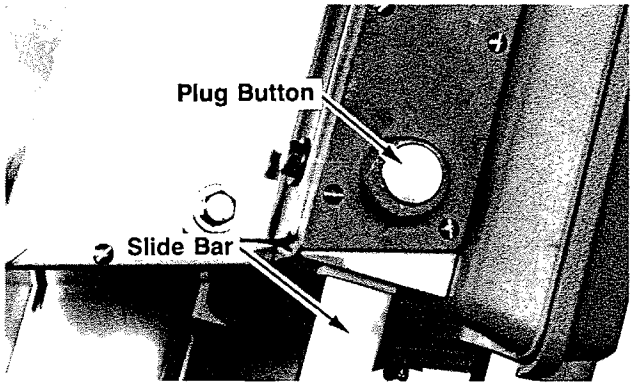


Fig. 29

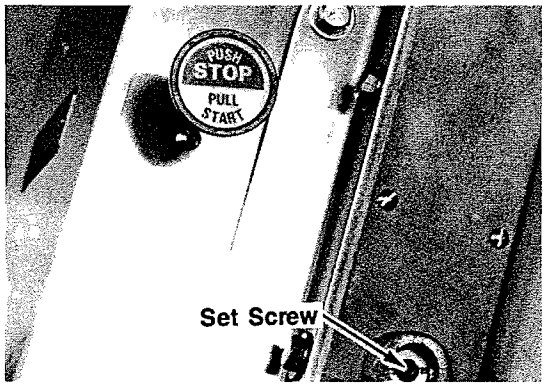


Fig. 30

Carriage

Carriage side play should be minimum without binding. If an adjustment is necessary, **DISCONNECT ELECTRICAL POWER SUPPLY.**

Carriage

Carriage side play should be minimum without binding. If an adjustment is necessary, **DISCONNECT ELE(POWER SUPPLY.**

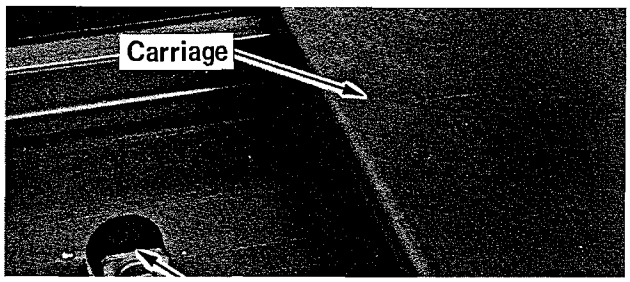


Fig. 31

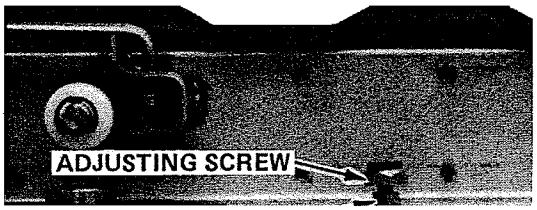


Fig. 32

Roll the carriage (Fig. 31) to either end of its travel. Turn the L-shaped carriage stop (Fig. 31) 90° and roll the carriage off of the carriage support.

Loosen the locking nuts (Fig. 32) and thread the adjusting screw (Fig. 32) in or out to achieve the desired amount of side play. Tighten the locking nuts and replace the carriage.