

Sears

owners manual

**MODEL NO.
113.19760C**

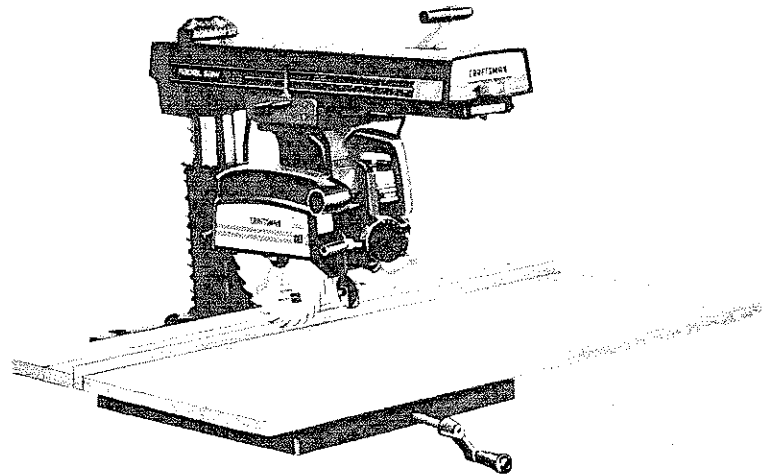
Serial
Number _____

Model and serial
number may be found
at the front of the base.

You should record both
model and serial number
in a safe place for
future use.

CAUTION:

**Read GENERAL
and ADDITIONAL
SAFETY
INSTRUCTIONS
carefully**



Sears

CRAFTSMAN.

10-INCH RADIAL SAW

- *assembly*
- *operating*
- *repair parts*

Sold by: SIMPSON-SEARS LIMITED, TORONTO, ONTARIO, CANADA M5B 2B8

FULL ONE YEAR WARRANTY ON CRAFTSMAN STATIONARY POWER TOOLS

If within one year from date of purchase, this Craftsman Stationary Power Tool fails due to a defect in material or workmanship, Simpsons-Sears will repair it free of charge.

Warranty service is available by simply contacting the nearest Sears store or Service Centre throughout Canada.

SIMPSON-SEARS LIMITED, TORONTO, ONTARIO, CANADA M5B 2B8

GENERAL SAFETY INSTRUCTIONS FOR POWER TOOLS

1. KNOW YOUR POWER TOOL

Read the owner's manual carefully. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

2. GROUND ALL TOOLS

This tool is equipped with an approved 3-conductor cord and a 3-prong grounding type plug to fit the proper grounding type receptacle. The green conductor in the cord is the grounding wire. Never connect the green wire to a live terminal.

3. KEEP GUARDS IN PLACE

In working order and in proper adjustment and alignment.

4. REMOVE ADJUSTING KEYS AND WRENCHES

Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.

5. KEEP WORK AREA CLEAN

Cluttered areas and benches invite accidents. Floor must not be slippery due to wax or sawdust.

6. AVOID DANGEROUS ENVIRONMENT

Don't use power tools in damp or wet locations or expose them to rain. Keep work area well lit. Provide adequate surrounding work space.

7. KEEP CHILDREN AWAY

All visitors should be kept a safe distance from work area.

8. MAKE WORKSHOP KID-PROOF

— with padlocks, master switches, or by removing starter keys.

9. DON'T FORCE TOOL

It will do the job better and safer at the rate for which it was designed.

10. USE RIGHT TOOL

Don't force tool or attachment to do a job it was not designed for.

11. WEAR PROPER APPAREL

No loose clothing, gloves, neckties or jewelry to get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.

12. USE SAFETY GOGGLES

Safety goggles must comply with CSA Z94.3, 1969. Also use face or dust mask if cutting operation is dusty and ear protectors (plugs or muffs) during extended periods of operation.

13. SECURE WORK

Use clamps or a vise to hold work when practical. It's safer than using your hand, frees both hands to operate tool.

14. DON'T OVERREACH

Keep proper footing and balance at all times.

15. MAINTAIN TOOLS WITH CARE

Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

16. DISCONNECT TOOLS

before servicing; when changing accessories such as blades, bits, cutters, etc.

17. AVOID ACCIDENTAL STARTING

Make sure switch is in "OFF" position before plugging in tool.

18. USE RECOMMENDED ACCESSORIES

Consult the owner's manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.

19. NEVER STAND ON TOOL

Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted.

Do not store materials above or near the tool such that it is necessary to stand on the tool to reach them.

20. 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.

21. DIRECTION OF FEED

Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

22. NEVER LEAVE TOOL RUNNING UNATTENDED

Turn power off. Don't leave tool until it comes to a complete stop.

additional safety instructions for radial saws

CAUTION: Always disconnect the power cord before removing the guard, changing the cutting tool, changing the set-up or making adjustments. Shut off motor before performing layout work on the saw table.

WARNING: DO NOT CONNECT POWER CORD UNTIL THE FOLLOWING STEPS HAVE BEEN SATISFACTORILY COMPLETED:

- I. Assembly and alignment.
- II. Examination and operating familiarity with ON-OFF switch, elevation control, yoke index and lock, bevel index and lock, carriage lock, guard clamp screw, spreader and antikickback device, and miter index and lock.
- III. Review and understanding of all Safety Instructions and Operating Procedures thru-out manual.

INSTALLATION

1. Set carriage lock before moving the saw.
2. Bolt the saw to the floor if it tends to slip, walk, or slide during normal operation.
3. Mount the saw so the table
 - is approximately 39" above the floor;
 - slopes slightly downward to the rear so the carriage will not roll forward due to gravity.

MINIMIZE ACCIDENT POTENTIAL

Most accidents are caused by FAILURE TO FOLLOW setup and operating instructions:

(A) GENERAL

- Avoid awkward hand positions, where a sudden slip could cause a hand to move into a sawblade or other cutting tool. Never reach in back of or around the cutting tool with either hand to hold down the workpiece, or for any other reason; DO NOT place fingers or hands in the path of the sawblade.
- Never saw, dado, mold, or rabbet unless the proper guard is installed and set up as instructed.
- NOTE THE FOLLOWING DANGER LABELS WHICH APPEAR ON THE FRONT OF THE YOKE AND GUARD:

DANGER: FOR YOUR OWN SAFETY/POUR VOTRE PROPRE SÉCURITÉ Read and understand owner's manual before operating machine. Lisez et comprenez le manuel de l'acheteur avant de faire fonctionner cette machine.	
1. Wear safety goggles.	1. Portez des lunettes de sécurité.
2. Keep hands out of path of sawblade.	2. Maintenez les mains hors du chemin de la lame de scie.
3. Know how to avoid "kickbacks."	3. Sachez comment éviter les "retours."
4. Use "push-stick" for narrow work.	4. Utilisez un "bâton-poussoir" pour travail étroit.
5. Never reach around the sawblade.	5. N'atteignez jamais autour de la lame de scie.
6. Allow tool to stop before adjusting.	6. Permettez à l'outil de s'arrêter avant de régler.
WARNING/AVERTISSEMENT To avoid injury return carriage to the full rear position after each crosscut type of operation./Pour éviter les blessures, retournez le chariot à la position arrière maximale après chaque opération du genre de coupe en travers.	
"DANGER" To avoid injury do not feed material into cutting tool from this end./Pour éviter les blessures ne faites pas avancer du matériel dans l'outil de coupe par ce bout.	

- Always maintain control of the workpiece — DO NOT "let go" the workpiece until the cutting tool has come to a stop.
- If any part of this radial saw is missing or should break, bend or fail in any way, or any electrical component fail to perform properly, shut off power switch, remove cord from power supply and replace damaged, missing and/or failed parts before resuming operation.
- IF YOUR SAW MAKES AN UNFAMILIAR NOISE OR IF IT VIBRATES EXCESSIVELY CEASE OPERATING IMMEDIATELY UNTIL THE SOURCE HAS BEEN LOCATED AND THE PROBLEM CORRECTED.

— **WARNING:** DO NOT ALLOW FAMILIARITY (GAINED FROM FREQUENT USE OF YOUR SAW) TO BECOME COMMONPLACE. ALWAYS REMEMBER THAT A CARELESS FRACTION OF A SECOND IS SUFFICIENT TO INFLICT SEVERE INJURY.

- Before starting work, verify that no play exists between the column & column support, or in the carriage, and that arm, yoke, and bevel locks/clamps are tight.
- A large proportion of saw accidents is caused by use of the wrong type blade, dull, badly set, improperly sharpened cutting tools, by gum or resin adhering to cutting tools, and by sawblade misalignment with the fence. Such conditions can cause the material to stick, jam (stall the saw) or "KICKBACK". A "KICKBACK" occurs when a part or all of the workpiece is thrown back violently toward the operator. NEVER ATTEMPT TO FREE A STALLED SAW BLADE WITHOUT FIRST TURNING THE SAW "OFF". If the sawblade is stalled or jammed, shut saw "OFF", remove workpiece, and check sawblade squareness to table surface and to the fence, and check for heel. Adjust as indicated.
- **CAUTION:** DO NOT cycle the motor switch "ON" and "OFF" rapidly, as this might cause the sawblade to loosen. In the event this should ever occur, allow the saw blade to come to a complete stop and re-tighten the arbor nut normally, not excessively.
- Do not leave a long board (or other workpiece) unsupported so the spring of the board causes it to shift on the table. Provide proper support for the workpiece, based on its size and the type of operation to be performed. Hold the work firmly against the fence and down against the table surface.
- Never use a length stop on the free end of the workpiece when crosscutting. Never hang onto or touch the free end of workpiece when crosscutting, or a free piece that is cut off when ripping while power is "ON" and/or the saw blade is rotating. In short, the cut-off piece in any "thru-sawing" (cutting completely thru the workpiece) operation must never be confined — it must be allowed to move laterally.
- Make sure your fingers do not contact the terminals when installing or removing the plug to or from a live power source.
- Never climb on the saw, or climb near the saw when power is "ON". Never leave the saw with power "ON", or before the cutting tool has come to a complete stop. Lock the motor switch and put away the key when leaving the saw.
- Do not use any blade or other cutting tool marked for an operating speed lower than 3450 RPM. Never use a cutting tool larger in diameter than the diameter for which the saw was designed. For greatest safety and efficiency when ripping, use the maximum diameter blade for which the saw is designed, since under these conditions the spreader is nearest the blade.
- Never turn your saw "ON" before clearing the table or work surface of all objects (tools, scraps of wood, etc.) except the workpiece and related feed or support devices for the operation planned.
- Never perform any operation "FREE HAND". This term means feeding the sawblade into the workpiece (crosscutting) or feeding the sawblade or other cutting tool (ripping) without using the fence to

additional safety instructions for radial saws

support or guide the workpiece, to prevent rotating or twisting of the workpiece during the operation. Never "RIP" in the crosscut position. Never make a miter cut with the arm in the 90° crosscut position.

- Never lower a revolving cutting tool into the table or a workpiece without first locking the Carriage Lock Knob. Release the knob only after grasping the Yoke Handle. Otherwise the cutting tool may grab the workpiece and be propelled toward you.
- The sawblade, dado, or other cutting tool must be removed from the saw arbor before using the accessory shaft (rear end of the saw motor). NEVER operate the saw with cutting tools (including sanding accessories) installed on both ends of the saw arbor.

(B) RIPPING

1. Feed force when ripping must always be applied **BETWEEN THE SAW BLADE AND THE FENCE**. . . use a "PUSH STICK" for narrow or short work.
2. Whenever possible, use the in-rip position — this provides minimum obstruction for feeding by hand or push stick as appropriate.
3. Do not release the workpiece before operation is complete — push the workpiece all the way past the rear (outfeed or exit) of the sawblade.
4. Make sure by trial before starting the cut that the antikickback pawls will stop a kickback once it has started. Points of pawls must be **SHARP**. Replace when points are dull or rounded.
5. Use a push stick when ripping short (under 12 inches) or narrow (under 6 inches wide) workpieces.
6. **CAUTION: Never reposition the Guard or antikickback with power "ON".**
7. A "KICKBACK" occurs during a rip-type operation. It can occur when the workpiece closes in on the rear (outfeed side) of the sawblade (pinching), binds between the fence and the sawblade (heel), or is grabbed by the sawblade teeth (wrong-way feed) at the outfeed side. "PINCHING" is generally avoided by utilization of the spreader, and a sharp sawblade of the corrective type for the workpiece being cut. "HEEL" can be avoided by maintaining the sawblade exactly parallel to the fence. (see "DANGER" warning on guard) — it can be avoided by maintaining parallelism of sawblade to fence, feeding into the sawblade from the nose of the guard only, and by utilizing the spreader.
8. Position the nose of the guard to just clear the workpiece, and position/adjust the antikickback and spreader devices as instructed.
9. NEVER cut more than one piece at a time by stacking workpieces vertically.
10. NEVER feed a workpiece thru the saw with another piece (butting second piece against trailing edge of piece being cut), even if of the same thickness. Feed each workpiece individually thru the sawblade, and completely beyond the sawblade, before ripping the next workpiece. Use push stick if the rip cut is less than 6" wide.
11. **DO NOT** pull the workpiece thru the sawblade
 - position your body at the nose (in-feed) side of the guard: start and complete the cut from that same side. This will require added table support for long pieces.
12. Plastic and composition (like styrene and hardboard) materials may be cut on your saw. However, since these are usually quite hard and

slippery, the antikickback pawls may not stop a kickback.

Therefore, rip with the finished side down (next to the table) and be especially attentive to following proper set-up and cutting procedures. Do not stand, or permit anyone else to stand, in line with a potential kickback.

13. When sawing 1/4" or thinner materials, follow all normal ripping procedures except set sawblade into table top at least 1/8". This will minimize the tendency for the sawblade to climb upon top of the workpiece, and possibly cause an accident. **DO NOT** let go of or stop feeding the workpiece between the blade and fence until you have pushed it completely past the antikickback pawls. Otherwise the workpiece could get into the back of the sawblade and be thrown violently from the saw in the direction opposite to the feed direction. This is the same action that would occur if the instructions of the **DANGER** warning on the guard is aborted. Do not stand, or permit anyone else to stand, in line with the path of a workpiece that may be thrown from the saw in this manner.
14. Position the saw so neither you, a helper, or a casual observer is forced to stand in line with the sawblade.
15. Use extra care when ripping wood that has a twisted grain or is twisted or bowed — it may rock on the table and/or pinch the sawblade. If bowed across the width, place concave side down against the table.

(C) CROSSCUTTING

1. **ALWAYS RETURN THE CARRIAGE TO THE FULL REARWARD POSITION AT CONCLUSION OF EACH CROSSCUT TYPE OPERATION.** Never remove your hand from the Yoke Handle unless the carriage is in this position. Otherwise the cutting tool may climb up on the workpiece and be propelled toward you.
2. Place guard in horizontal position and adjust antikickback pawls to just clear the top of the fence or workpiece, whichever is higher.
3. **NEVER** gang crosscut — lining up more than one workpiece in front of the fence — stacked vertically, or horizontally outward on the table — and then pulling saw thru: the blade could pick up one or more pieces and cause a binding or loss of control and possible injury.
4. Do not position the Arm so the operation you are performing permits the cutting tool to extend beyond the edges of the Table.

(D) ACCESSORIES

1. Use only recommended accessories as listed on page 33.
2. Never operate this saw when equipped with a dado head or molding head unless the molding head guard is installed — see listing of recommended accessories. The only exception is when "top-side" dadoing or molding, when the sawblade guard must be used. See detailed instructions that accompany the dado head, molding head, and molding head guard.
3. The use of abrasive or cut-off wheels, or wire wheels, can be dangerous and is not recommended. (Abrasive or cut-off wheels are used to saw many different materials including metals, stone, and glass.)



The operation of any power tool can result in foreign objects being thrown into the eyes, which can result in severe eye damage. Always wear safety goggles complying with CSAZ943, 1969 (shown on package) before commencing power tool operation. Safety Goggles are available at Sears retail or catalog stores.

electrical connections

POWER SUPPLY

1. Motor Specifications

The A-C motor used in this saw is a capacitor-start, non-reversible type having the following specifications:

Voltage	120
Amperes	11.5
Hertz (cycles)	60
Phase	Single
RPM	3450
Rotation as viewed from saw blade end ...	Clockwise

CAUTION: Your saw is wired for 120V operation. Connect to a 120V, 15-Amp. branch circuit and use a 15-Amp. time-delay fuse or circuit breaker.

This machine must be grounded while in use to protect the operator from electric shock.

IF YOU ARE NOT SURE THAT YOUR OUTLET IS PROPERLY GROUNDED, HAVE IT CHECKED BY A QUALIFIED ELECTRICIAN.

WARNING: DO NOT PERMIT FINGERS TO TOUCH THE TERMINALS OF PLUGS WHEN INSTALLING OR REMOVING THE PLUG TO OR FROM THE OUTLET.

WARNING: IF NOT PROPERLY GROUNDED THIS POWER TOOL CAN INCUR THE POTENTIAL HAZARD OF ELECTRICAL SHOCK. PARTICULARLY WHEN USED IN DAMP LOCATIONS IN PROXIMITY TO PLUMBING. IF AN ELECTRICAL SHOCK OCCURS THERE IS THE POTENTIAL OF A SECONDARY HAZARD SUCH AS YOUR HANDS CONTACTING THE SAWBLADE.

IF POWER CORD IS WORN OR CUT, OR DAMAGED IN ANY WAY, HAVE IT REPLACED IMMEDIATELY.

housing at one end and to the ground prong in the attachment plug at the other end.

This plug requires a mating 3-conductor grounded type outlet as shown.

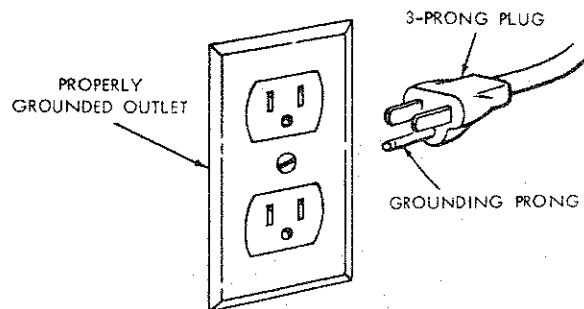
If the outlet you are planning to use for this power tool is of the two prong type **DO NOT REMOVE OR ALTER THE GROUNDING PRONG IN ANY MANNER.**

It is recommended that you have a qualified electrician replace the TWO prong outlet with a properly grounded THREE prong outlet.

MOTOR SAFETY PROTECTION

NOTE: This motor should be blown out, or "vacuumed", frequently to prevent sawdust interference with normal motor ventilation.

1. This tool should be connected to a 120 volt, 15 amp branch circuit with a 15 amp time delay fuse or circuit breaker. Failure to use the proper size fuse can result in damage to the motor.
2. If the motor fails to start, turn the power switch to the off position immediately. **UNPLUG THE TOOL.** Check the saw blade to insure that it turns freely and that its teeth are not wedged into the table top. After the blade has been freed, try to start the motor again. If, at this point, the motor still fails to start, refer to the "Motor Trouble-Shooting Chart."
3. If the motor should suddenly stall while cutting wood, the power switch should be turned off, the tool unplugged and the blade freed from the wood. The motor may now be restarted and the cut finished.



This power tool is equipped with a 3-conductor cord and grounding type plug which has a grounding prong, approved by the Canadian Standards Association. The ground conductor has a green jacket and is attached to the tool

electrical connections

4. Frequent opening of fuses or circuit breakers may result if motor is overloaded, or if the motor circuit is fused differently from recommendations. Overloading can occur if you feed too rapidly or if your saw is misaligned so that the blade heels. Do *not* use a fuse of greater capacity without consulting a qualified electrician.
5. Although the motor is designed for operation on the voltage and frequency specified on motor nameplate, normal loads will be handled safely on voltages not more than 10% above or below the nameplate voltage. Heavy loads, however, require that voltage at motor terminals equals the voltage specified on nameplate.
6. Most motor troubles may be traced to loose or incorrect connections, overloading, reduced input voltage (such as small size wires in the supply circuit) or to an overly-long supply circuit. Always check the connections, the load and the supply circuit, whenever the motor fails to perform satisfactorily. Check wire sizes and lengths with the table following.

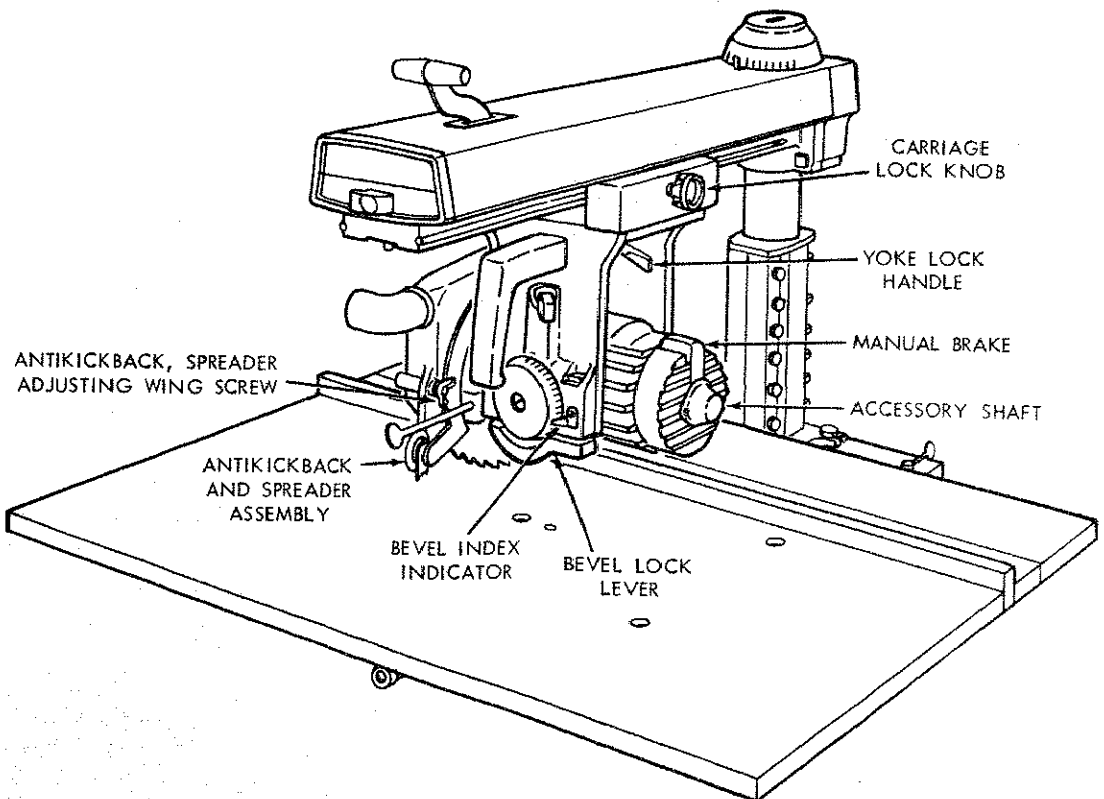
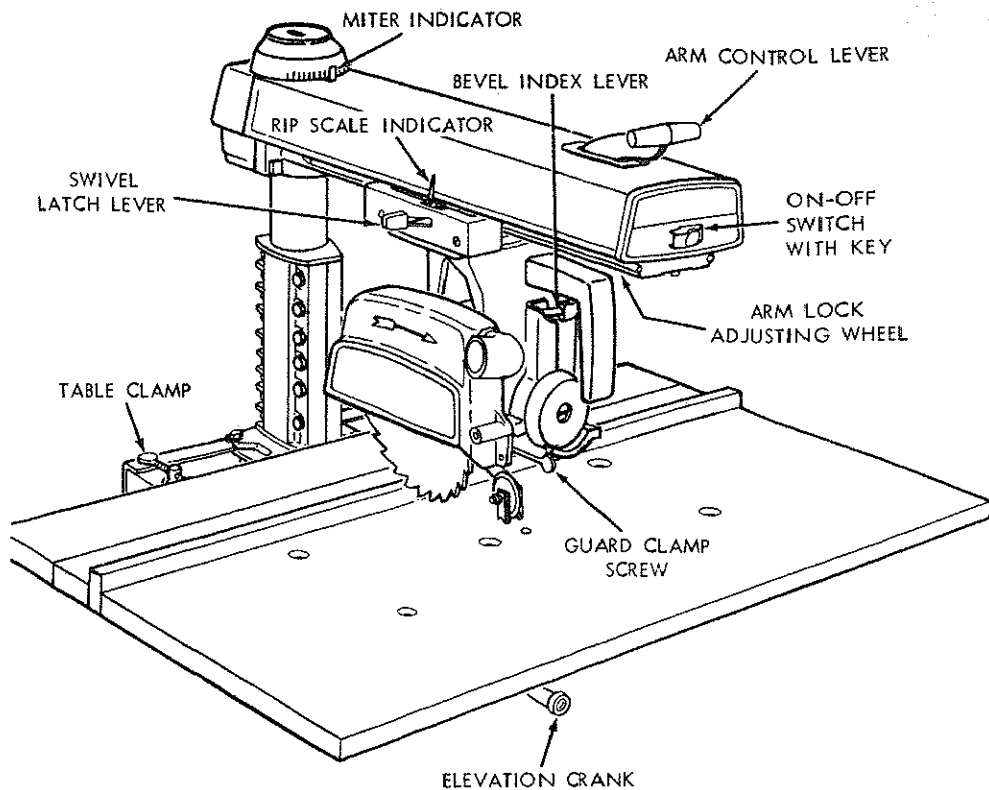
WIRE SIZES

The use of any extension cord will cause some loss of power. To keep this to a minimum and to prevent over-heating and motor burn-out, use the table below to determine the minimum wire size (A.W.G.) extension cord. Use only 3 wire extension cords which have 3 prong grounding type plugs and 3-pole receptacles which accept the tools plug.

NOTE: For circuits of greater length, the wire size must be increased proportionately in order to deliver ample voltage to the saw motor.

Length of the Conductor	Wire Size Required (American Wire Gauge Number) 120 Volt Lines
Up to 100 feet	No. 12
100 feet to 200 feet	No. 8
200 feet to 400 feet	No. 6

LOCATIONS AND FUNCTIONS OF CONTROLS



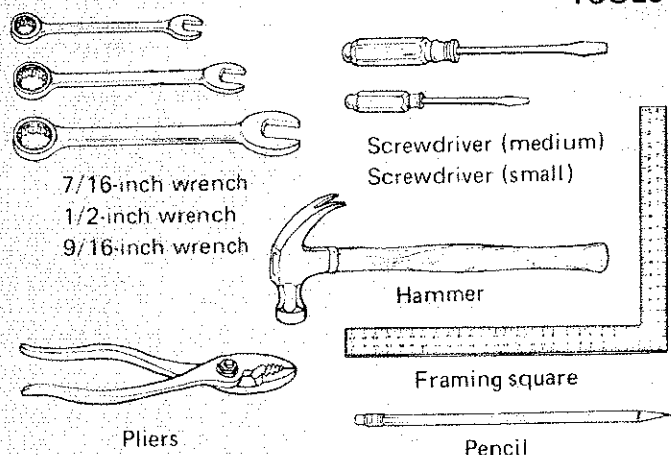
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assembly and alignment

TOOLS NEEDED



UNPACKING AND PREASSEMBLY

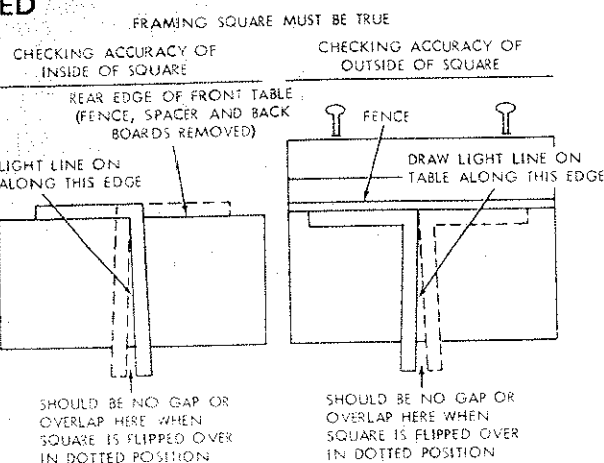
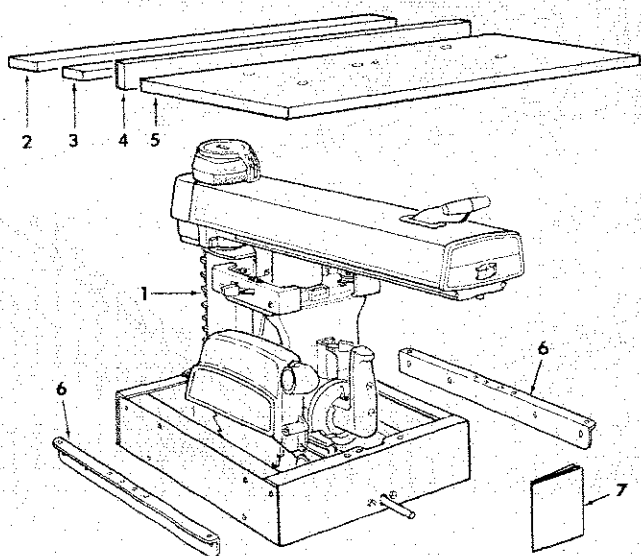
WARNING: DO NOT CONNECT THE POWER CORD TO A SOURCE OF POWER. THIS CORD MUST REMAIN UNPLUGGED WHENEVER YOU ARE WORKING ON THE SAW.

Your Craftsman 10-inch Radial Saw is shipped complete in one carton. Steel Legs is an optional accessory.

1. Unpacking and Checking Contents

Separate all "loose" parts from packaging materials and check each item with "Table of Loose Parts" to make sure all items are accounted for, before discarding any packing material.

If any parts are missing, do not attempt to assemble radial saw, plug in the power cord, or turn the switch



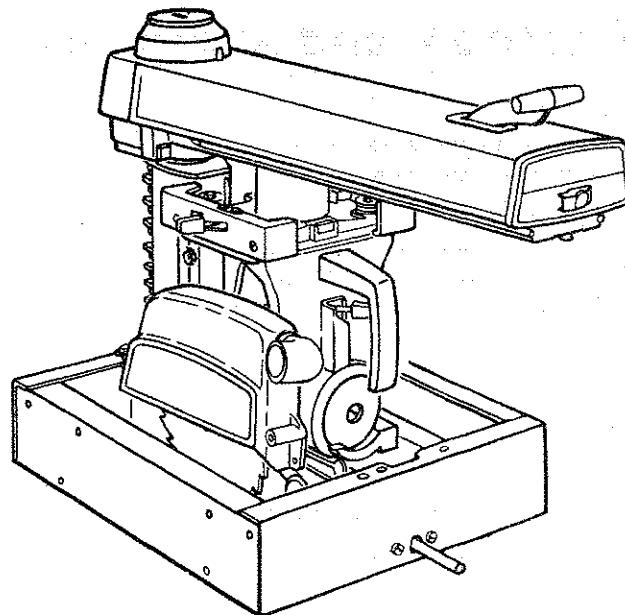
on until the missing parts are obtained and are installed correctly.

Key No. (Fig. 1)	Table of Loose Parts	Qty.
1	Basic Saw assembly	1
2	Rear Table	1
3	Table Spacer	1
4	Rip Fence	1
5	Front Table	1
6	Channel, Table Mtg.	2
7	"Owner's Manual"	1
	Loose Parts Carton Part No. 62724 (containing the following items):	
	- Hex "L" Wrench, 1/8"	1
	- Switch Key	2
	- Rip-Scale Indicator	1
	- Twin Nut (for attaching rip-scale indicator) ..	1
	- Machine screw, pan-hd., 1/4-20 x 1"	4
	- Washer, steel (Flat), 17/64 x 5/8 x 1/32" ...	5
	- Machine screw, pan-hd., 6-32 x 7/16"	2
	- Lockwasher, 5/16	4
	- Washer, Flat, 11/32 x 7/8 x 1/16"	4
	- Nut - "T"	1
	- Set Screw, Cup.Pt. 1/4-20 x 1	1
	- Screw Pan Head, 1/4-20 x 1-3/4	1
	- Nut Hex 1/4-20	4
	- Lockwasher 1/4	4
	- Nut Lock 5/16-18	2
	- Bolt Sq. Hd. 5/16-18 x 3/4	4
	- Washer 21/64 x 9/16 x 1/16	2
	- Nut, Hex 5/16-18	4
	Loose Parts Bag Part No. 63723 (containing the following items):	
	- Hex "L" Wrench, 1/4	1
	- Hex "L" Wrench, 3/16	1
	- Elevation crank assembly	1
	- Arbor Wrench	1
	- Table Clamp	2
	- Shaft Wrench	1

REMOVE SKIDS FROM BASE

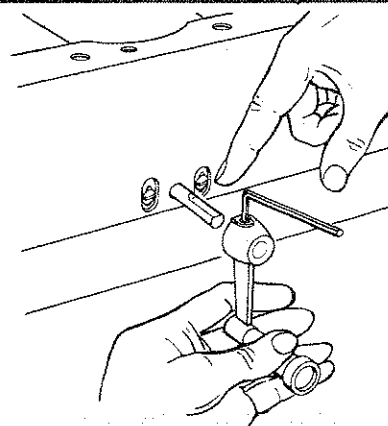
MOUNT SAW TO CRAFTSMAN BASE, STEEL LEGS, OR FLAT BENCH (not supplied with saw)

Make sure Elevation Crank has proper clearance to rotate. The saw must be bolted down. Position your saw to slope slightly rearward, so when the carriage is installed it will not roll forward due to gravity.



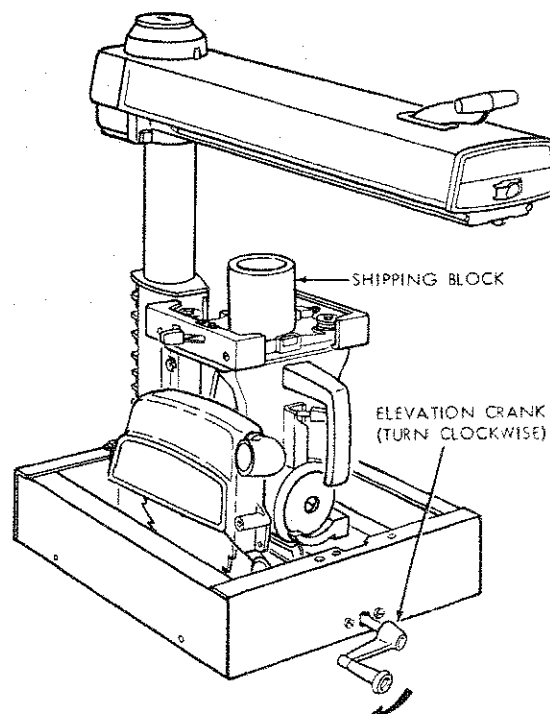
ATTACH ELEVATION CRANK.

Be sure setscrew is tightened on flat of shaft.



ELEVATE ARM TO ITS MAX. HEIGHT.

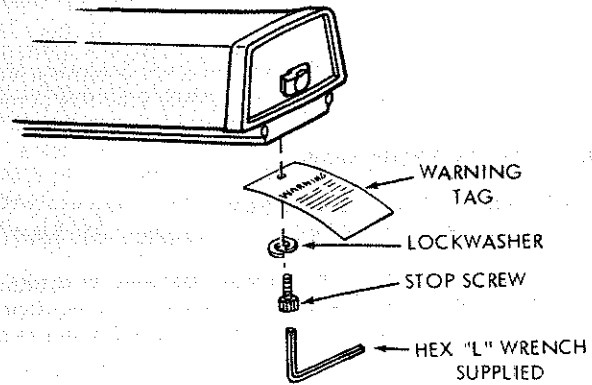
Remove shipping block and discard.



assembly and alignment

BE positive switch is "OFF" and power cord unplugged thru-out entire procedure.

REMOVE CARRIAGE STOP SCREW, LOCKWASHER AND TAG. Read and understand warning tag before discarding.

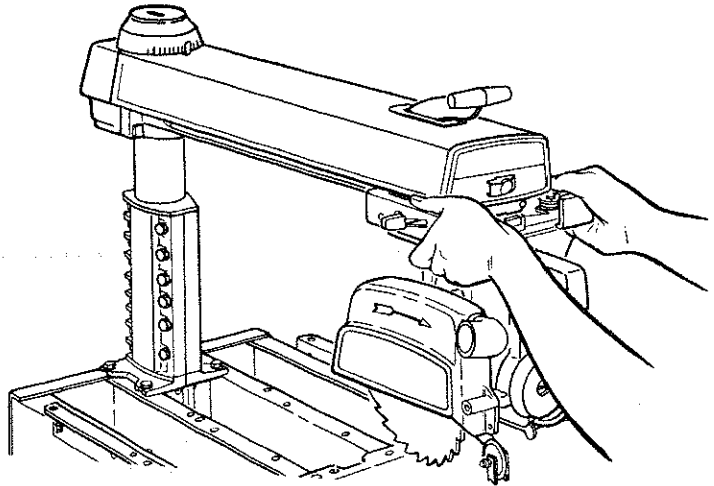


LOCK ARM BEFORE PROCEEDING.

HOLDING CARRIAGE ASSEMBLY WITH BOTH HANDS, CAREFULLY START AND SLIDE THE CARRIAGE ONTO THE TRACKS. The assembly must be held parallel with the arm so that all four bearings slide smoothly onto the arm, preventing any excessive strain on bearings and track.

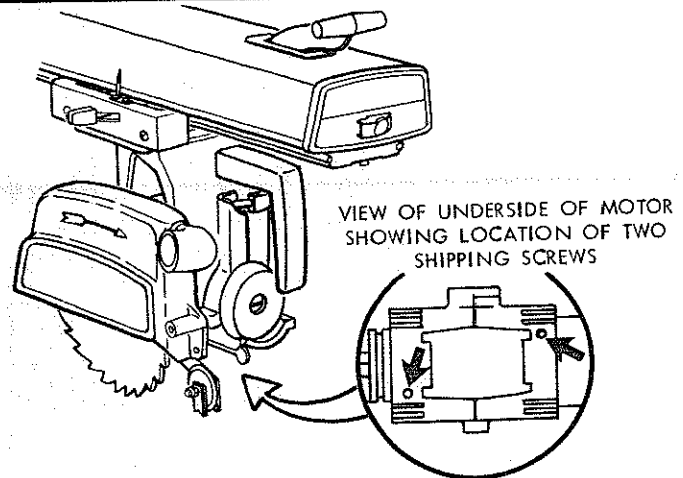
WARNING: REINSTALL CARRIAGE STOP SCREW TO PREVENT CARRIAGE FROM ROLLING OFF ARM.

Check for looseness of carriage bearings. Refer to "Adjusting Carriage Bearings" in "Adjustments to Compensate for Wear" Section.



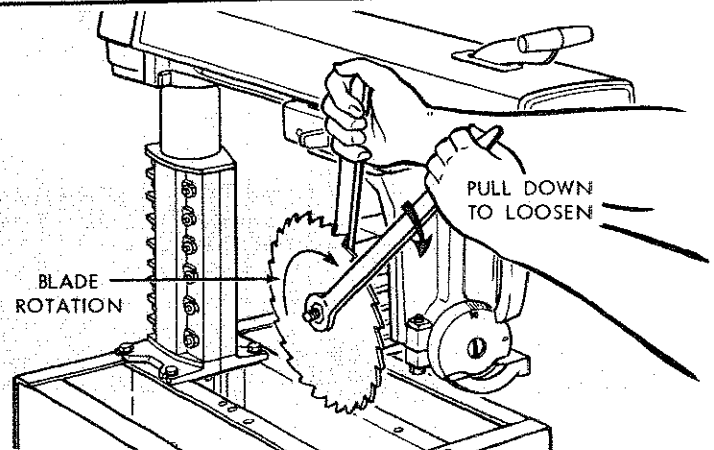
REMOVE SHIPPING SCREWS AND DISCARD.

Use of pliers may be necessary.



REMOVE SAW BLADE.

1. Tighten carriage lock knob.
2. Loosen guard clamp screw, remove guard.
3. Motor shaft has left hand threads. Hold shaft wrench and rotate arbor wrench down (clockwise).
4. Remove shaft nut, outer collar, saw blade, and inner collar. Set aside and out of the way.



ALIGNMENT PROCEDURE

IMPORTANT:

IN ORDER TO OBTAIN MAXIMUM CUTTING ACCURACY, THE FOLLOWING SIX STEPS MUST BE CAREFULLY FOLLOWED. BECOME THOROUGHLY FAMILIAR WITH THESE STEPS SO THAT YOU CAN ALWAYS MAINTAIN YOUR SAW IN PROPER ALIGNMENT. THE ACCURACY OF EACH ADJUSTMENT IS ALWAYS DEPENDENT UPON THE ACCURACY OF THE PRECEDING ADJUSTMENT.

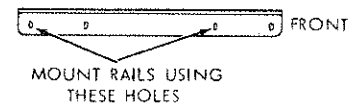
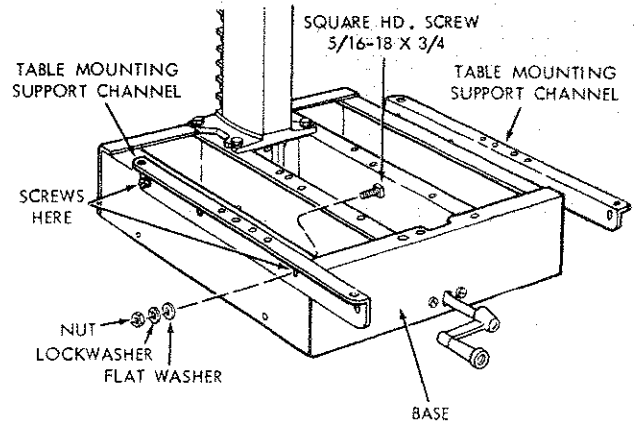
After following the 6 step assembly and alignment procedure and the Basic Saw operation section refer to Trouble Shooting section if any difficulty is experienced when performing any sawing operation.

STEP ONE

NOTE: The following adjustment, performed properly, will result in the work table being parallel to the arm.

ATTACHING AND LEVELING TABLE MOUNTING SUPPORT CHANNELS.

1. Attach table mounting support channels with four square head 5/16-18 x 3/4 screws, lockwashers and flat washers and nuts. POSITION SCREWS IN CENTER OF CHANNEL SLOTS, finger tight to permit channels to "slip" against the base when leveling.

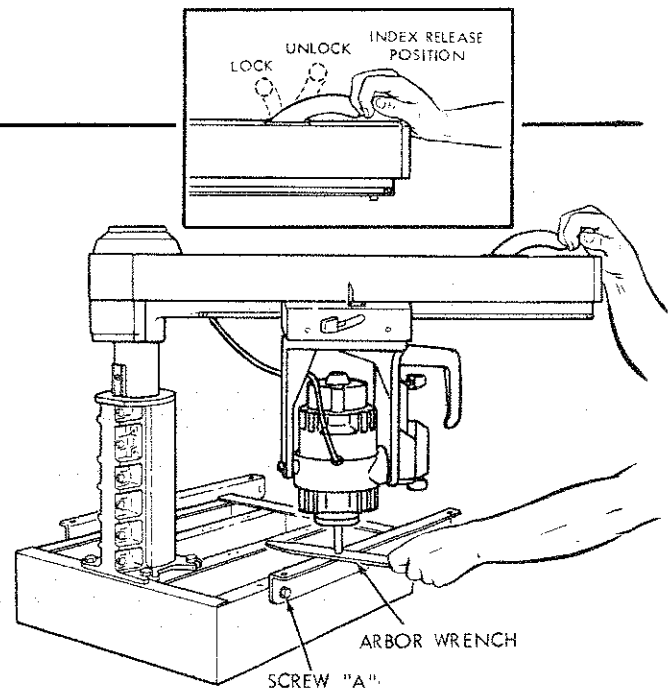


2. Release bevel lock lever, move bevel index pin to left and rotate the motor to position saw blade, end of shaft down. Lock bevel lock.
3. Unlock and hold arm control lever in index release position as shown. Position arm against left stop (approximately 50° miter). Loosen carriage lock knob and position carriage directly over left hand channel.

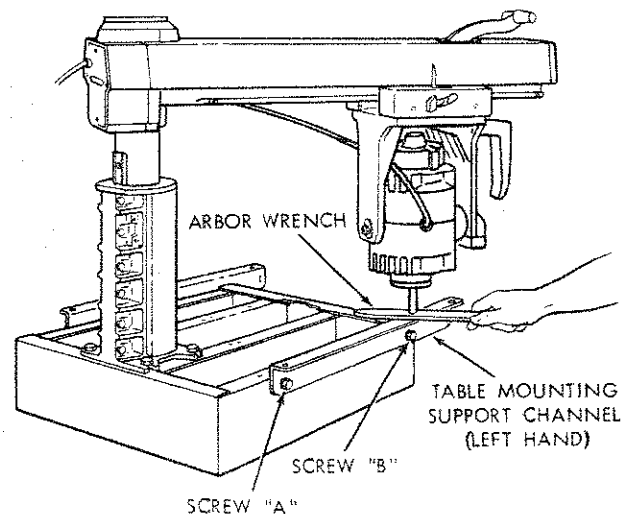
NOTE: For safety reasons in accordance with the UL standard, stops have been provided to prevent 360° rotation of the radial arm.

4. Slide the arbor wrench handle between end of motor shaft and mounting channel to act as a feeler gauge. Carefully lower the motor with elevation crank until the end of shaft is just touching the arbor wrench. The wrench should slide back and forth with only slight resistance. Tighten screw "A".

NOTE: Do not change this elevation setting until both left and right hand table support channels have been adjusted.



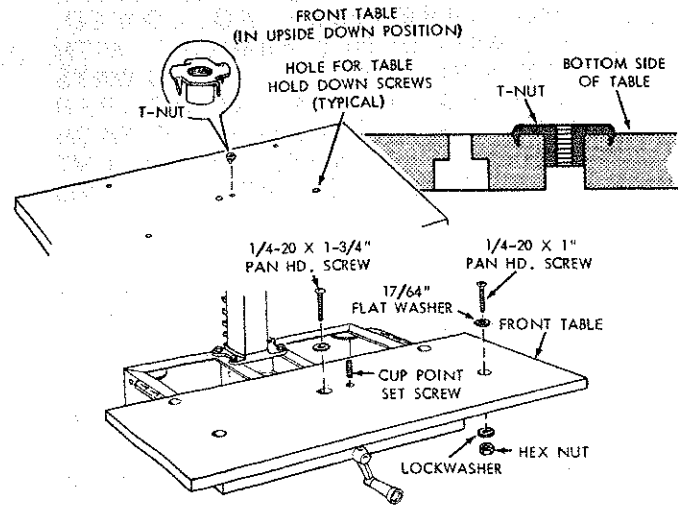
5. Move arm and carriage to screw "B" and tighten support in the same manner.
6. Move arm and carriage to right hand support channel and level in the same manner you adjusted the left hand support channel.
7. Recheck both support channels to make sure that tightening screws did not affect the accuracy of the adjustment.
8. Elevate saw and place motor in vertical position to provide clearance for installation of front (work) table.



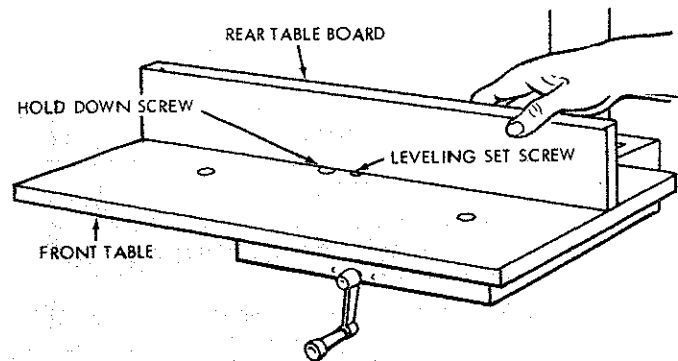
assembly and alignment

INSTALLATION OF FRONT (WORK) TABLE.

1. Place front table board upside down on a workbench or on the floor. Drive T-nut into the hole that is not counterbored.
2. Align the counterbored holes with matching holes in support channels. Install the five 17/64 inch flat washers, and four 1/4 - 20 x 1 inch Pan-Head machine screws. Just barely start the cup point set screw and the one (1) 1/4 - 20 x 1-3/4 inch Pan Head machine screw in table center holes.
3. Install one 1/4 lockwasher and Hex Nut on each of the four (4) screws in the support channels and tighten.



4. Lay the rear table board on edge across the front table to serve as a straightedge. Sight under this straightedge to determine whether the front table board is high or low at its center.
5. If the front table is high at center, first tighten the center (1/4 - 20 x 1-3/4 inch) hold down screw until the table is level - then tighten the leveling screw until this screw is snug.
If table is low at center, first tighten the leveling screw until the table is level - then tighten the hold down screw.
If table is not high or low, tighten leveling screw and center hold down screw snug.



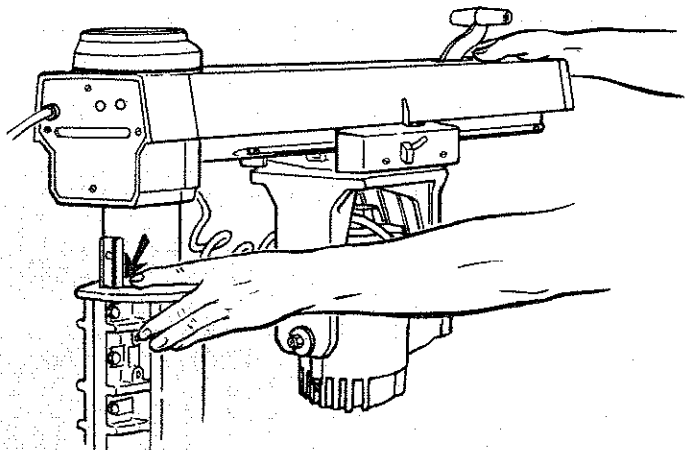
STEP TWO

ADJUSTING COLUMN TUBE IN COLUMN SUPPORT

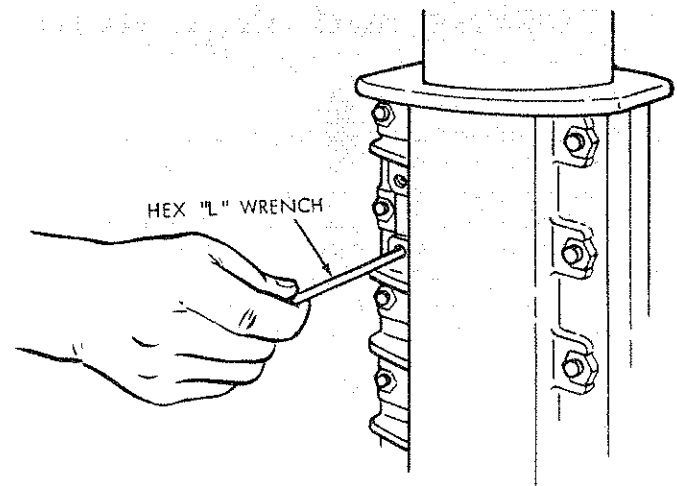
NOTE: The following adjustment is very CRITICAL. All future alignment procedures rely on this adjustment being performed correctly. ALL LOOSENESS MUST BE REMOVED.

1. Index and lock arm at 0° Miter.

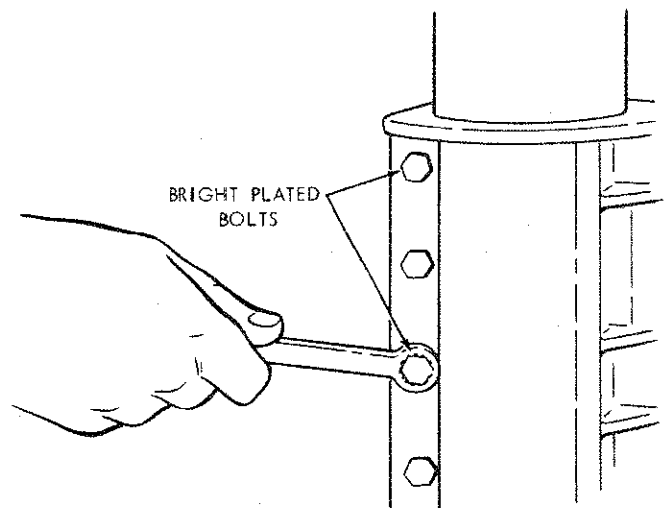
While holding the arm with one hand, hold fingers of other hand as shown, between column tube and column support. Apply gentle side pressure to the arm in opposing directions. Any side to side or rotational movement (indicated by arrow) can be felt with finger. If looseness exists the following adjustments are required.



2. Loosen (2) $\frac{1}{4}$ - 20 Gib set screws on the right side at the rear of the column support.



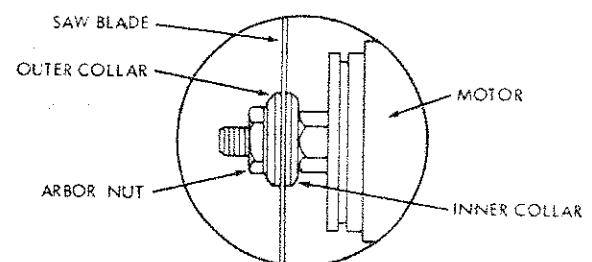
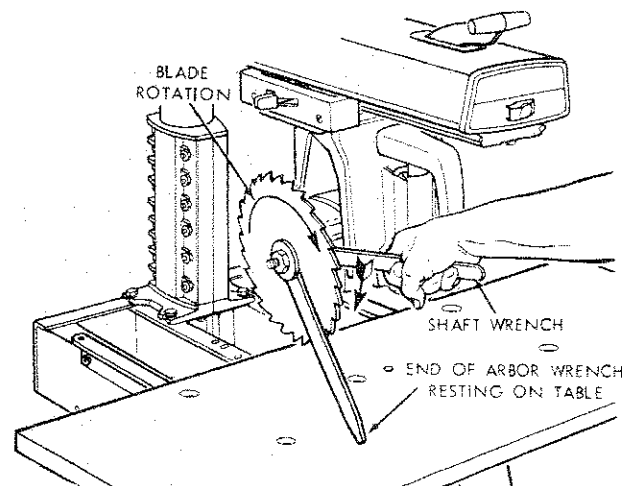
3. Elevate, and then lower the Arm: (a) if the column binds and elevation is difficult loosen two 5/16 - 18 plated nuts on front side of the column support until you achieve smooth but firm elevation. (b) If the column moves side-to-side within the column support, tighten the two 5/16 - 18 plated nuts until movement disappears - elevation should be smooth and firm.
4. Now tighten the (2) $\frac{1}{4}$ - 20 Gib set screws until no noticeable rotational play exists between Column Tube and Column Support.
5. Recheck elevation and re-adjust if necessary.



STEP THREE

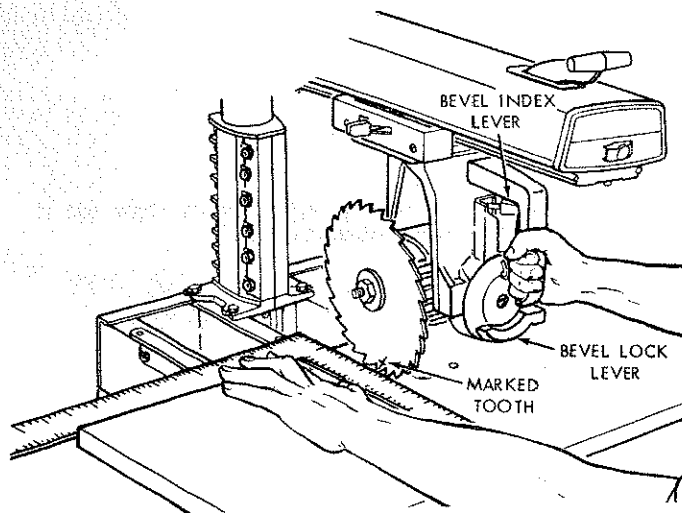
SQUARING CROSS CUT TRAVEL (CARRIAGE TRAVELS IN A STRAIGHT LINE).

1. Index but do not lock arm at 0° miter.
2. Install saw blade as shown. Motor shaft has left hand threads.



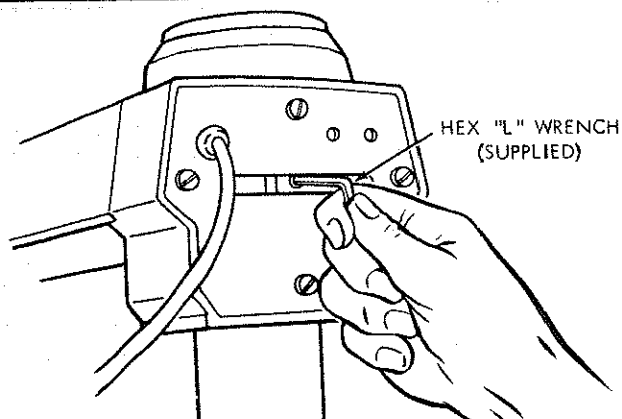
assembly and alignment

3. Lower arm until saw blade just clears the front table. Lock the yoke clamp handle and bevel lock lever.
4. Place a framing square on the table as shown and position the blade and square until the leg of the square just contacts a tooth of the blade. Mark this tooth.
5. When the carriage is moved back and forth on the arm, the marked tooth should just touch the square at all points. If marked tooth moves into square or away from square the following adjustments are required:

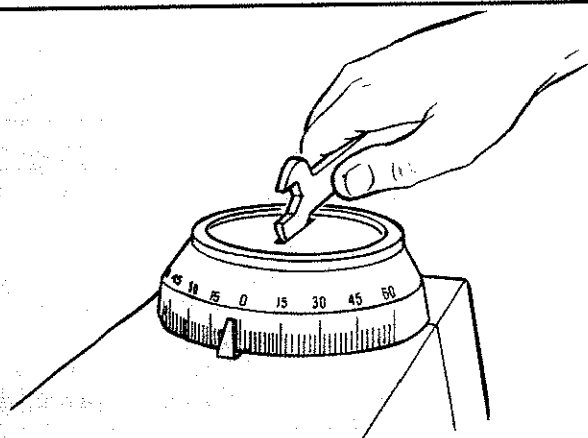


- a. Loosen (3) 3/8 — 16 set screws in arm latch at rear of arm.
- b. Move the arm in proper direction to make marked tooth follow edge of square when the saw blade is moved along arm in a "cross cut" manner.
- c. Lock arm latch.
- d. **RETIGHTEN** (3) setscrews in arm latch as tight as possible and recheck "cross cut" travel.

NOTE: This squaring of the cross cut travel will simultaneously set BOTH of the 45° miter index positions.

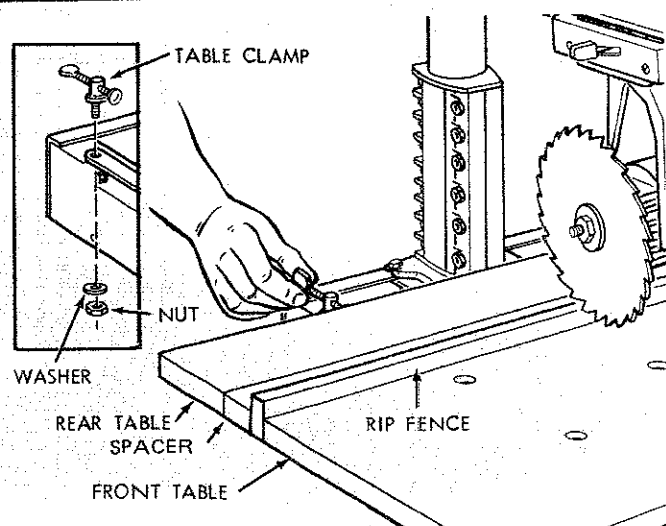


- e. Set miter indicator on 0° position as shown.



6. Position the rip (guide) fence, and rear table board behind the front table board as shown.
7. Install the two table clamps in the holes provided for them at the rear of the saw base, and tighten them securely.

NOTE: The life of your saw table will be lengthened considerably if you will cover the front table with a fitted piece of 1/4 inch plywood. This should be tacked in place for easy replacement. Use of such a cover will allow you to do all cutting into the cover, rather than your table top.

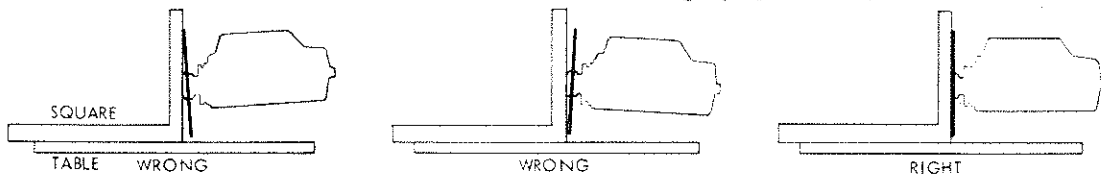
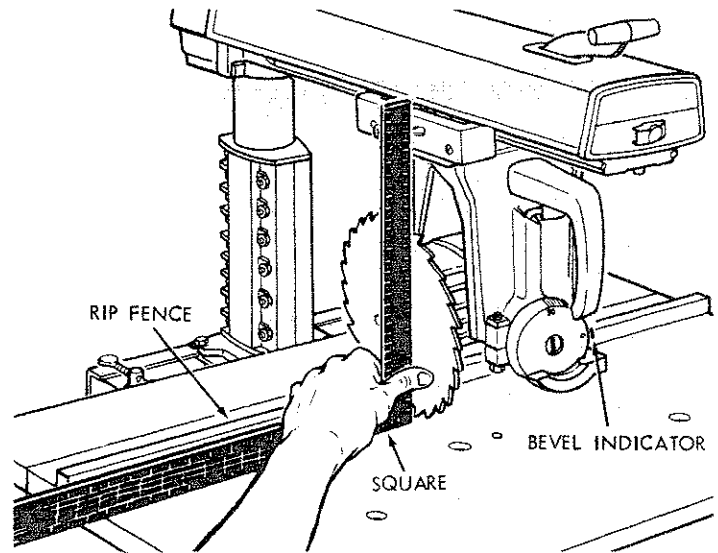


STEP FOUR

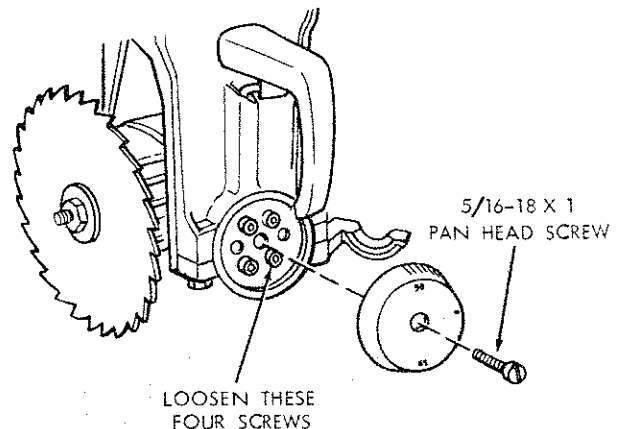
SQUARING SAW BLADE TO (WORK) TABLE

NOTE: If alignment procedure step one was not performed, this adjustment can not be accomplished.

1. Place a framing square on the table with the short leg against the saw blade. Do not allow the square to rest against a "set-out" tooth; it must rest flat against the blade side.
2. If the saw blade is square with the table top (no visible gap appears between the saw blade and square) and no adjustment is required. Set bevel indicator to 0° reading. If the square does not touch the saw blade as shown (with square leg held firm against the table top), perform the following adjustments:



- a. Tighten carriage lock knob.
- b. Remove bevel scale by removing 5/16-18 x 1 Pan Head Screw.
- c. Loosen the four socket head screws with 1/4" Hex "L" Wrench. Rotate motor while holding square firmly against saw blade and table top.
- d. Slightly tighten each of the four screws and recheck ... Now tighten each screw tight.
- e. Reinstall bevel scale and adjust indicator on 0° reading.
- f. Loosen carriage lock knob.

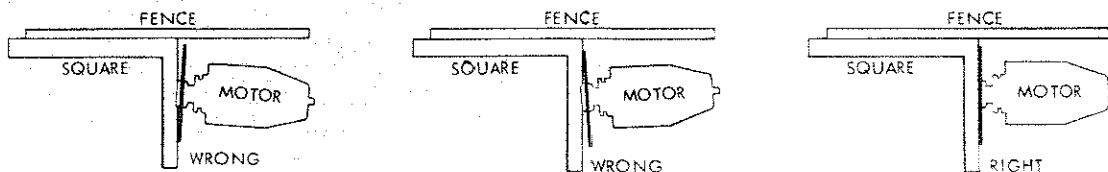
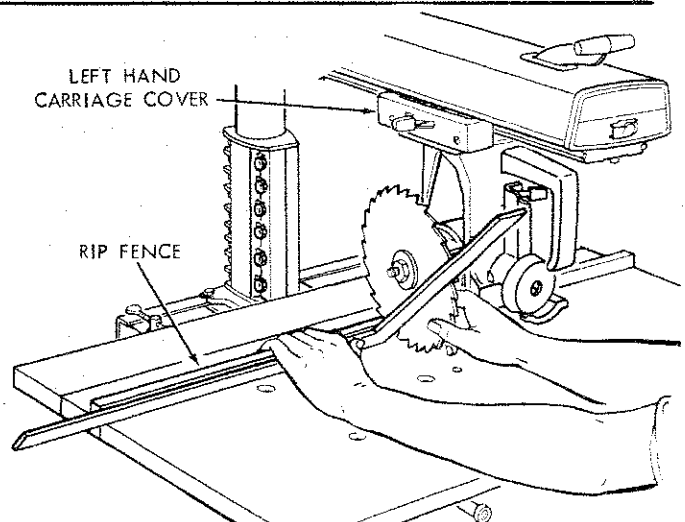


STEP FIVE

SQUARING BLADE TO RIP (GUIDE) FENCE – BLADE HEEL ADJUSTMENT.

NOTE: If alignment procedure steps two and four were not performed, this alignment step cannot be accomplished.

1. Position carriage as shown and tighten carriage lock knob. Place a framing square against the rip fence and the saw blade, as shown. The long leg of the square must be held firmly against both the fence and the table top, and the short leg must not touch any of the teeth on the saw blade. Check at several points of blade rotation.
2. If the square does not touch the blade at both of the two points as shown, a heel condition exists.

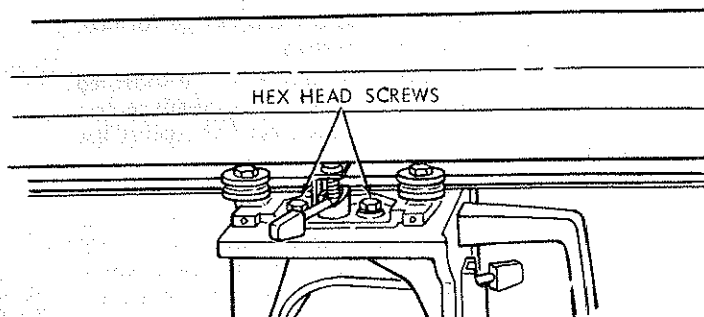


assembly and alignment

3. To correct "heel" condition proceed as follows:

- Remove left hand carriage cover.
- Loosen the yoke clamp handle.
- Loosen (slightly) the two hex-head screws.
- Rotate the yoke assembly until gap between the saw blade and square is eliminated.
- Lock yoke clamp handle and retighten the two hex-head screws.
- Recheck for "heel" and install carriage cover.
- Loosen carriage lock knob.

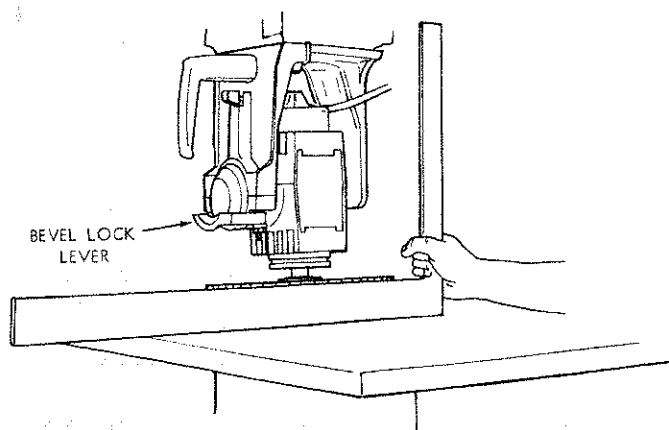
NOTE: This alignment procedure will simultaneously set both yoke indexing positions for blade in and out rip.



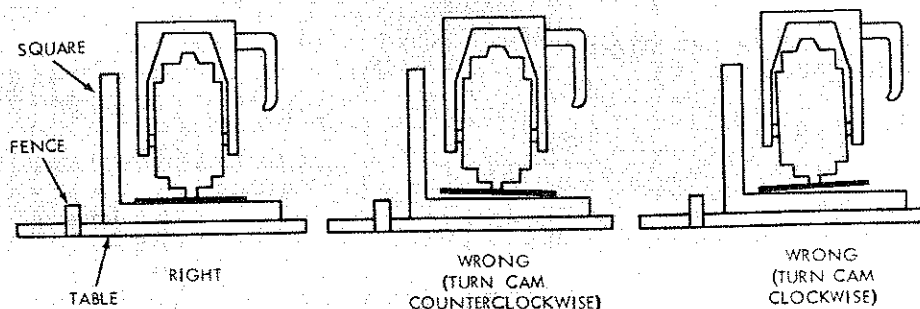
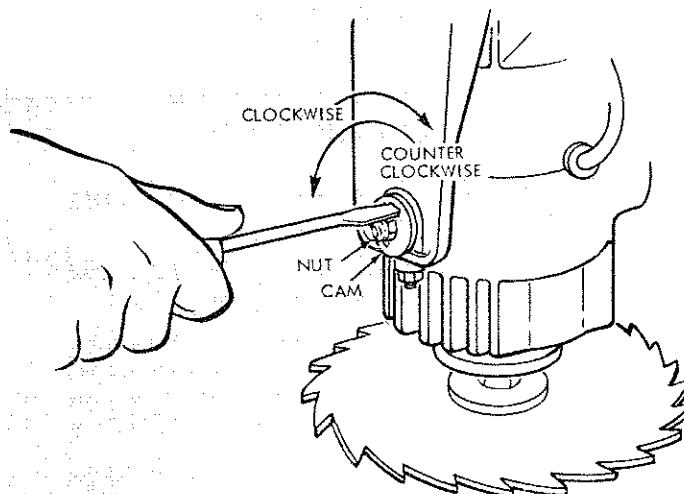
LEFT SIDE OF CARRIAGE

VERTICAL HEEL ADJUSTMENT

- With sawblade in 90° cutoff position, elevate saw and rotate motor to vertical position (Blade Horizontal) and check for heel. Make sure bevel lock lever is locked.
- Position square perpendicular to fence and between blade and table, as shown lower arm. Do not allow the square to rest against a "set-out" tooth, it must rest flat against the blade side.



- If the saw blade is parallel with the table top (no visible gap appears between the saw blade and square), no adjustment is required.
- If there is a visible gap between saw blade and square, a bevel heel condition exists and adjustment is required.
 - To correct, unlock bevel lock lever, loosen the rear motor mount 3/8-16 nut until you can rotate Cam, and then rotate Cam as shown until gap between saw blade and square is eliminated.
 - Tighten nut and bevel lock lever and recheck.
 - Reposition motor in crosscut position.

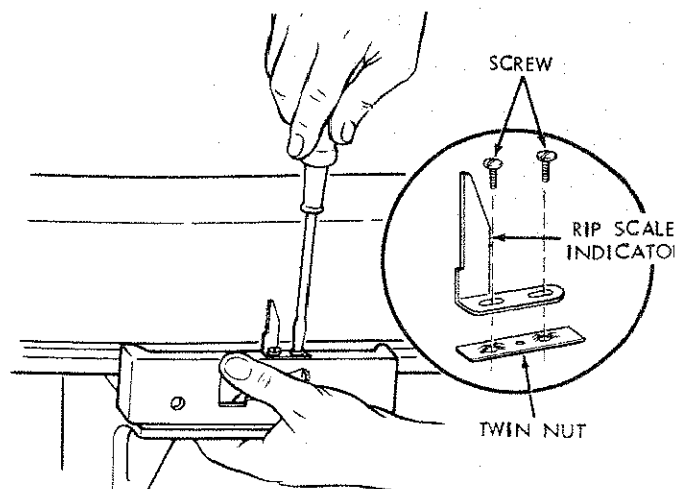


STEP SIX

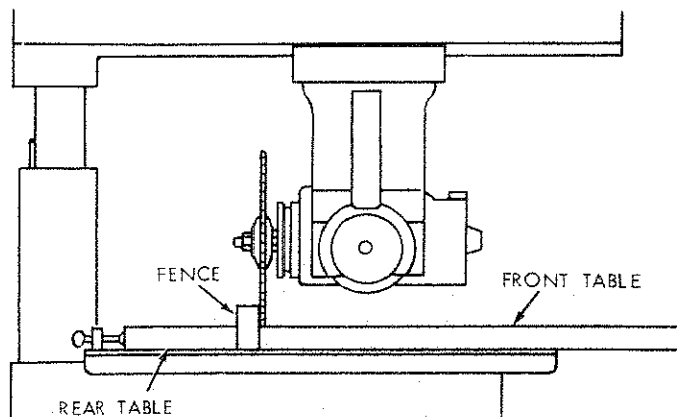
1. INSTALLING AND ADJUSTING RIP SCALE INDICATORS.

NOTE: The rip scale and pointer is intended to be used for quick settings. For greater accuracy, take direct measurement between blade and fence.

- Pre-assemble indicator and twin nut, loosen but do not remove the two screws which attach left hand carriage cover.
- Tilt carriage cover and install rip indicator as shown. Tighten carriage cover attaching screws.



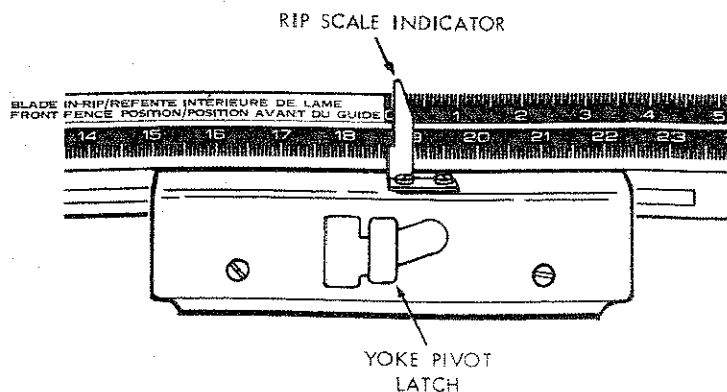
- With the fence in its normal position (next to the front table), loosen the yoke clamp handle, pull on swivel latch pin knob and rotate the yoke as shown to index the yoke 90° from the cross cut position. This will locate the saw blade between the motor and the fence. Lock the yoke by tightening the yoke clamp handle.



- Position carriage until the edge of the blade, when spun by hand, just touches the front face of the fence. The rip-scale indicator (on the left hand side of radial arm) should now read "0" inches on upper portion of the blade "In-Rip" scale. If not, loosen screws and shift the indicator until it is aligned with the "0" mark, then tighten the screws.

NOTE: With the saw blade and fence in the position shown, the upper portion of the blade "In-Rip" scale is used. If the fence is re-located at the extreme rear position, the saw must be repositioned for blade "Out-Rip" and the lower portion of the blade "Out-Rip" scale would be used.

- Loosen the yoke clamp handle, pull on the swivel latch pin knob and return the blade to the 90° position.



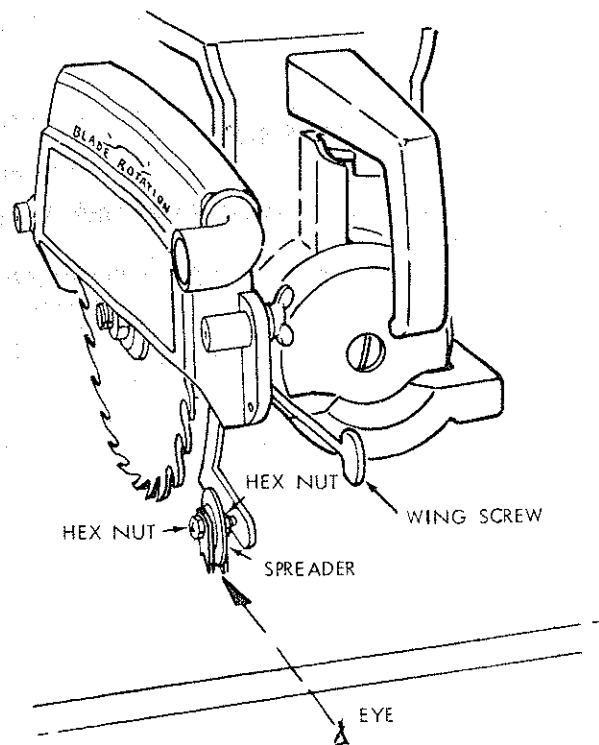
assembly and alignment

ALIGNMENT OF SPREADER FOR RIPPING.

WARNING: NEVER POSITION THE GUARD OR ANTIKICKBACK ASSEMBLY WITH POWER ON; NOR POSITION ANTIKICKBACK PAWLS BY GRASPING PAWLS OR SPREADER.

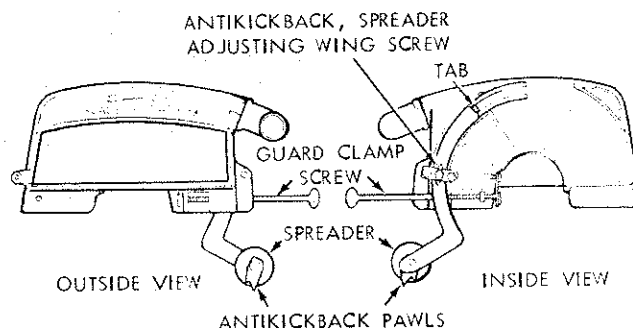
2. Install Blade Guard.

- a. Sight (visually) to check for proper alignment of spreader with saw blade as shown. If the spreader is not aligned, adjust it as follows:
 - (1) Loosen two hex nuts, one on each side of spreader.
 - (2) Rotate hex nuts with fingers until the spreader is directly in line with saw blade.
 - (3) Tighten both hex nuts firmly.



3. Check and Adjust the spreader as follows:

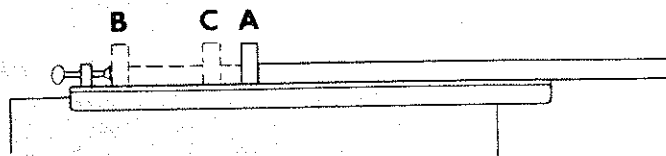
- a. Loosen the antikickback spreader adjusting wing screw and with the "tab" position the antikickback and spreader assembly near the bottom of the blade and tighten.



FENCE LOCATIONS

Position (A) is used for most cutoff and narrow ripping operations. Position (B) is used for maximum width ripping. Position (C) is used to achieve maximum crosscut capacity in thin work.

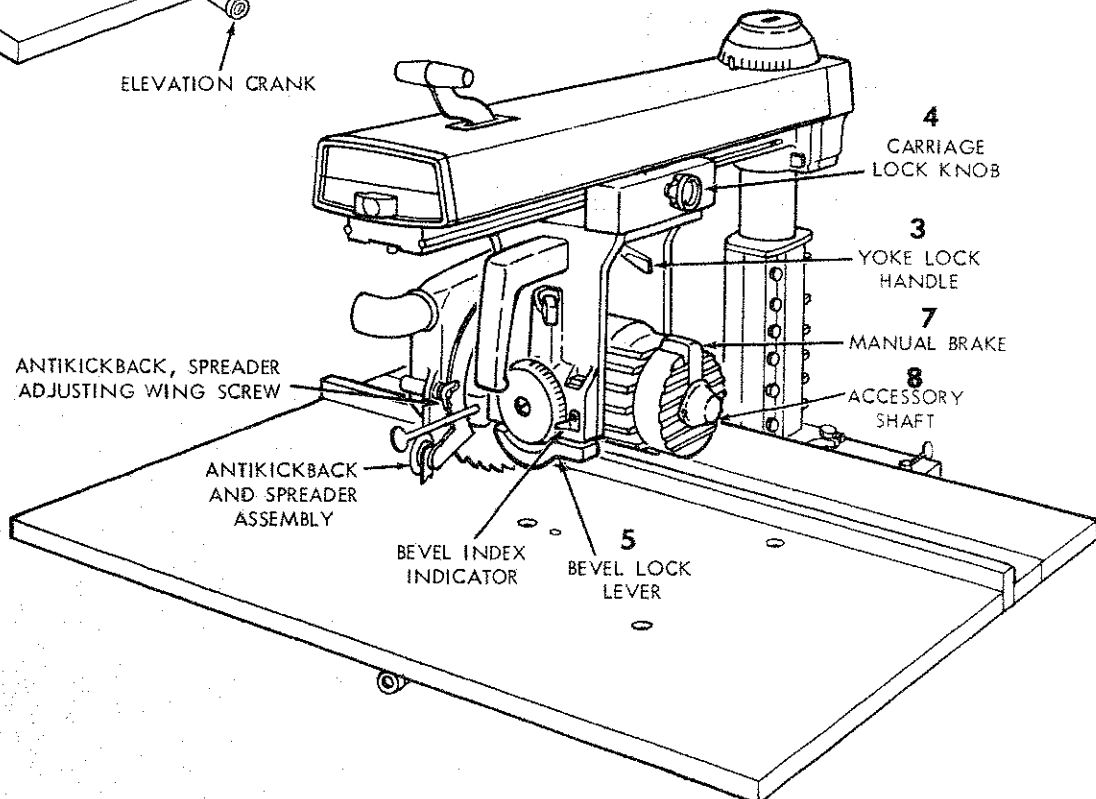
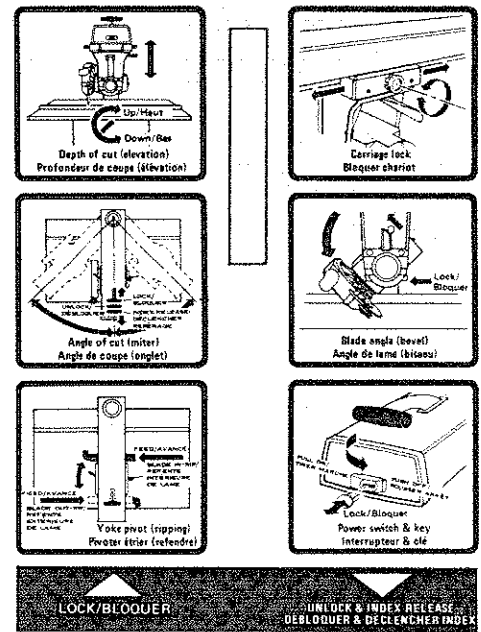
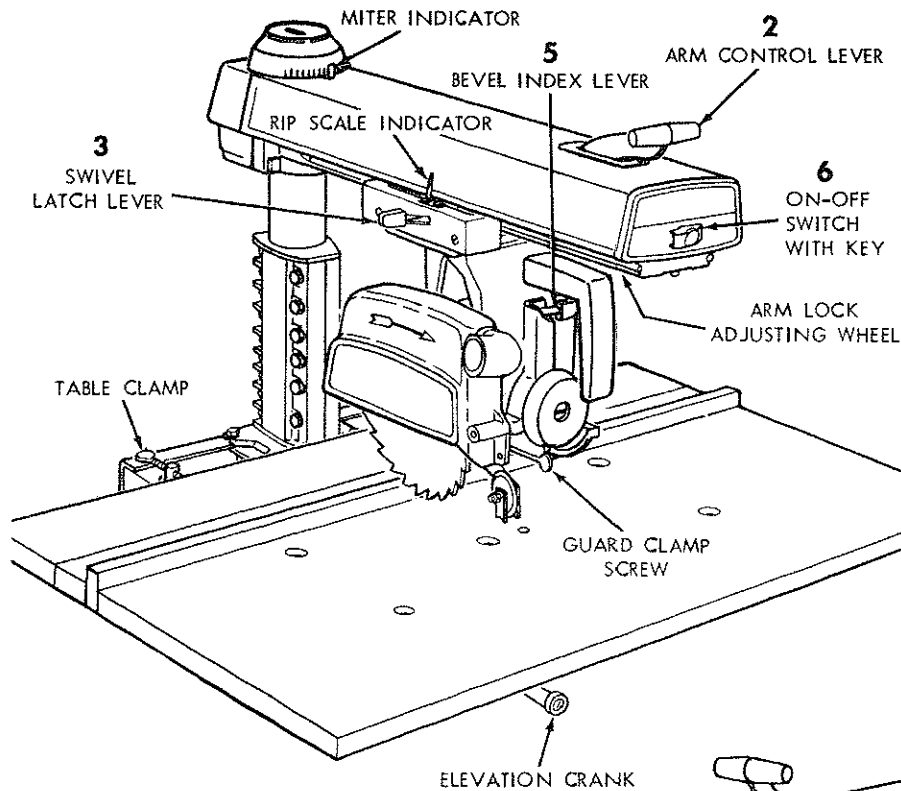
Now that you have assembled and aligned your saw, you are ready to proceed with operating controls section of this manual. Refer to trouble shooting section if saw does not perform satisfactorily or any problems should surface after using the saw.



locations and functions of controls

The versatility of the Radial Saw is due, in part, to its controls, and these are the keys to its successful operation. Learn to use the controls for all operations before actually starting to saw.

A series of six diagrams is located on the top surface of the arm. These designate the controls that must be used in basic set-ups and operating procedures. You should become familiar with these diagrams and the operating instructions that follow, before operating your saw.



locations and functions of controls

1. Depth of Cut (Elevation)

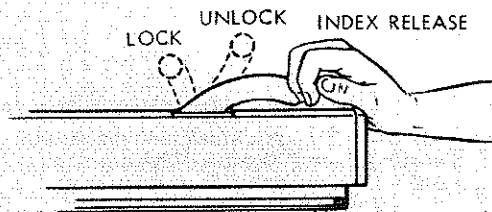
- The diagram shows the elevation crank which is used to raise and lower the saw blade.
- Clockwise rotation raises the blade . . . counterclockwise rotation lowers it. One complete turn of the handle will raise or lower the saw blade 1/16-inch.

2. Angle of Cut (Miter)

Proper Indexing Method — Experienced operators of woodworking equipment, such as this Craftsman Radial Saw, acquire the habit of indexing in one direction only, whenever a new setting is made in preparation for a different operation.

Example: When moving the arm to a miter index position move it slightly past the desired index position, then return to the index position carefully to index and lock. Yoke indexing and bevel indexing can be accomplished in a similar manner. This indexing technique tends to neutralize any stresses imparted upon saw components and contributes to the high degree of accuracy the saw is capable of producing when operated expertly.

- The arm control lever locks, unlocks and indexes the arm for Left and Right Miter cuts.
- The radial arm has positive index positions at 0° and 45° Left and Right. The arm is rotated by pulling arm control lever to index release position. With arm control lever released the arm will automatically index at 0° and 45° Left or Right. After positioning arm to the desired miter angle, push arm control lever to locked position.



3. Yoke Pivot (Ripping)

- Two controls are used in this operation. They are: the swivel latch-pin lever and the yoke clamp handle.
- A swivel latch lever automatically indexes the yoke at each 90° position. Pull the spring-loaded swivel latch-lever forward to release this pin.
- The yoke clamp handle locks the yoke to the carriage in any position. Pull the handle forward to release the yoke; push the handle rearward to secure the yoke.

4. Carriage Lock

- The carriage lock knob is rotated clockwise to lock the carriage on the radial arm, and counterclockwise to release it.
- When performing crosscutting operations the carriage lock knob must be rotated counterclockwise until the carriage is free to travel along the arm. This knob should be tightened until the operator is ready to grasp the bevel index handle and make a cut.

5. Blade Angle (Bevel)

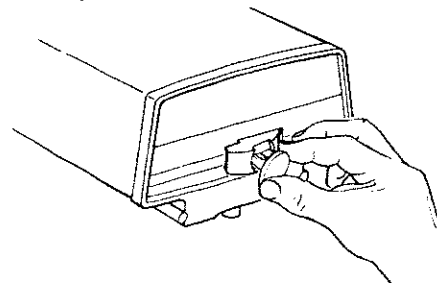
- The two controls used in angular positioning and indexing of the motor, to provide the desired

saw-blade (bevel) angle, are: bevel lock lever and bevel-index lever.

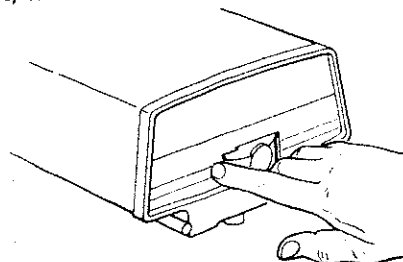
- The bevel-index scale indicates the angular position of the motor with respect to horizontal, from 0° to 90° in either vertical position.
- The bevel index lever automatically indexes the motor at 0°, 45° and 90°. Move bevel index lever to the left while positioning the blade, then release it. At any other position it does not engage.
- The bevel lock lever locks the motor to the yoke when the motor is in any position. Pull lever to release and push to lock.

6. Power Switch and Key

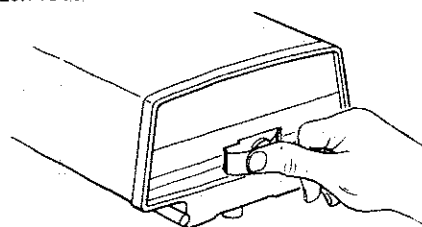
- Insert key into switch lock.



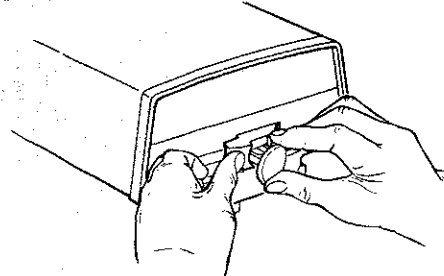
- Insert finger under end of switch lever and pull end out, to turn switch on.



- Push lever in — with thumb — to turn switch off.



- WARNING: THIS LOCKING FEATURE IS PROVIDED TO PREVENT UNAUTHORIZED USE OF YOUR SAW. ALWAYS REMOVE THE KEY AND KEEP IT IN A SAFE PLACE. TO REMOVE KEY, HOLD THUMB ON END OF LEVER TO KEEP SWITCH IN "OFF" POSITION AND PULL KEY STRAIGHT OUT.**



WARNING: FOR YOUR OWN SAFETY ALWAYS LOCK THE SWITCH "OFF" WHEN SAW IS NOT IN USE. REMOVE KEY AND KEEP IT IN A SAFE PLACE . . . ALSO IN THE EVENT OF A POWER FAILURE (ALL YOUR LIGHTS GO OUT) TURN SWITCH OFF. LOCK IT AND REMOVE THE KEY THIS WILL PREVENT THE SAW FROM STARTING UP AGAIN WHEN THE POWER COMES BACK ON.

7. The Manual Motor Brake.

- The manual brake is located on the motor shaft at the right-hand end of motor.
- Pressing on the brake button with finger or thumb, after turning off the ON-OFF switch, will greatly reduce blade coasting time.

8. Accessory Shaft

NOTE: When using an accessory such as a drill chuck attached to end of motor shaft, it will be necessary to remove the accessory shaft cover.

CAUTION: Motor spacer, both blade collars and shaft nut must be installed when using accessory shaft. Be sure to re-install the accessory shaft cover after removing the accessory.

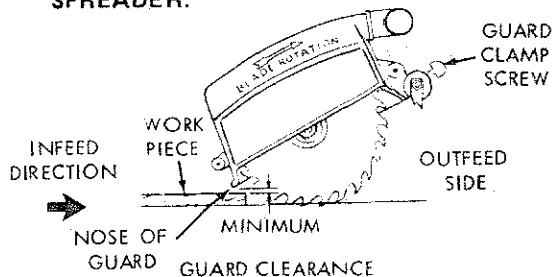
Use only the following recommended accessories:

Drill chuck, Sanding drum, and Router adapter.

CAUTION: The sawblade, dado, or cutting tool must be removed from the saw arbor before using the accessory shaft. NEVER operate the saw with cutting tools (including sanding accessories) installed on both ends of the saw arbor.

POSITIONING GUARD, ANTIKICKBACK AND SPREADER ASSEMBLY, FOR RIPPING

WARNING: NEVER POSITION THE GUARD OR ANTIKICKBACK ASSEMBLY WITH THE POWER ON. NEVER POSITION THE ANTIKICKBACK PAWLS BY GRASPING THE PAWLS OR SPREADER.



- The blade guard is positioned by loosening the guard clamp screw and rotating the guard so that the nose just clears the workpiece as shown.

This is necessary:

- to protect operator from accidentally contacting the sawblade radially from the Infeed direction.
- to hold down the workpiece against the table — minimizing lifting or fluttering (particularly thin and/or light workpieces);
- to minimize sawdust thrown toward the operator.
- to minimize the possibility of a thin pusher board riding up on top of the workpiece with loss of control of workpiece.

- The antikickback and spreader assembly is used during ripping operations and is adjustable to accommodate the thickness of the board being ripped. A wing screw in the guard secures the assembly.

These adjustments are necessary:

Antikickback

- to stop a kickback if generated.

Spreader

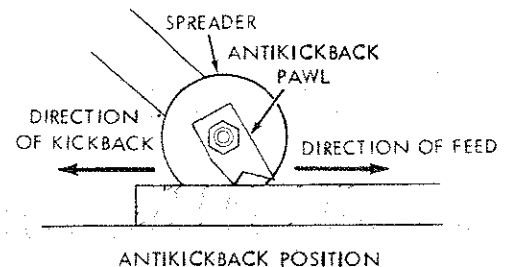
- to prevent kerf from closing in on sawblade and possible kickback;
- to prevent "wrong-way feed". "Wrong-way feed" is feeding the workpiece — when sawblade is in a rip position — into the outfeed side of the cutting tool (sawblade, dado, molding head, etc.), the side containing the antikickback/spreader. This can be extremely hazardous because the sawblade may grab the workpiece and throw it violently toward the nose of the guard (infeed side of the tool). **Danger** label on guard.

"Wrong-way feed" occurs when the teeth themselves cut, or attempt to cut, a kerf in the workpiece. This differs from a "kickback" which is generated by the sides (one or both) of the teeth, because of binding between the fence (heel), pinching of the sides of the sawblade (failure to use spreader), and/or inadequate set of teeth of sawblade.

- to act as a partial guard regarding accidental contact with the sawblade at the outfeed side when ripping, and leading edge when crosscutting.

- The blade guard is positioned by loosening the guard clamp screw and rotating the guard so that the "nose" just clears the workpiece as shown.

- The antikickback and spreader assembly must be adjusted to accommodate the thickness of the board being ripped. A wing screw in the guard secures the assembly.



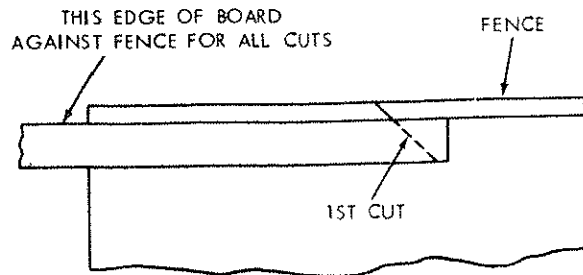
- Loosen the wing screw and with the tab provided, position the antikickback and spreader assembly until the pawl assumes approximately the position shown above. Tighten the wing screw.

(Make sure by trial before starting the cut that the antikickback pawls will stop a kickback once it has started). Insert workpiece alongside spreader under outer set of pawls by approaching pawls in the feed direction. Push workpiece sharply in the direction of a kickback (opposite to direction of feed). Readjust Pawls if they do not stop the kickback motion by biting into the workpiece.

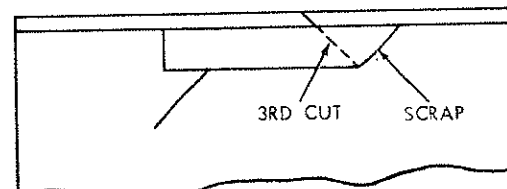
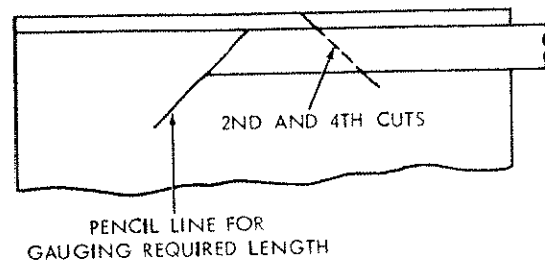
HAVE YOU FOLLOWED ALL SIX STEPS OF THE ALIGNMENT PROCEDURE? IF YOU HAVE NOT FOLLOWED THEM IN THEIR PROPER SEQUENCE, YOU CANNOT EXPECT ACCURATE CUTTING RESULTS.

In addition to the proper alignment of your saw, you must also become familiar with the following practices in order to expect the best results.

1. Edge of workpiece which is placed against fence must be as straight as the long side of your framing square.
2. Workpiece must be as flat as the front table board on your saw.
3. There must be no sawdust or other wood chips between the fence and front table board.
4. There must be no sawdust or other wood chips underneath workpiece or between workpiece and fence.
5. Workpiece must be held tightly against fence . . . this is especially important when making angle cuts because the workpiece has a tendency to move.
6. Always use the correct Sawblade for the Job . . . Always keep it sharp.
7. When making a four sided frame:
 - a. The two side pieces must be exactly the same length.
 - b. The top and bottom pieces must be exactly the same length.
 - c. Always place the same edge of the workpiece against, the fence . . . turn the workpiece end for end for the successive cuts and mark a pencil line on the table for gauging the required length.



Turn workpiece over end for end . . . keep same edge against fence when making successive cuts.

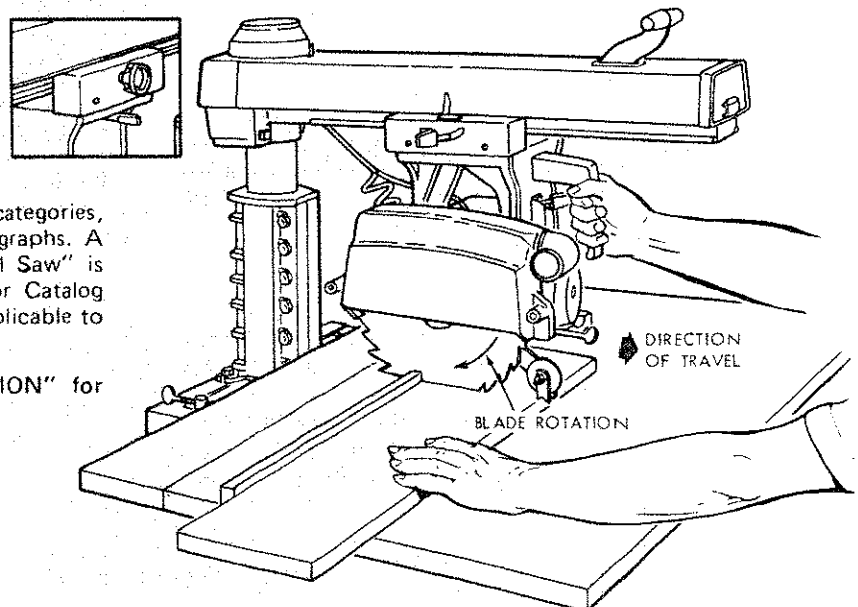


Deviations from any of the above practices will have an effect on the accuracy of the cuts that you make.

basic saw operations

Basic saw operations are summarized into six categories, explained and illustrated in the following paragraphs. A book entitled "Power Tool Know How Radial Saw" is available at your nearest Sears Retail Store or Catalog Store. This book contains considerable data applicable to the radial saw.

NOTE: Refer to paragraphs under "OPERATION" for illustrations and descriptions of controls.



basic saw operations

REQUIREMENTS FOR CROSSCUT

Board position (stationary) against rip fence (guide) and laying flat on table top.

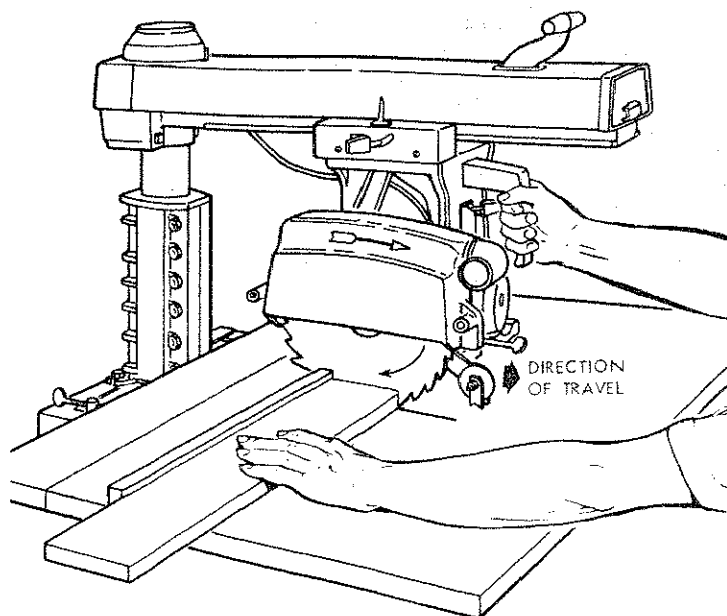
(OPERATIONS 1 THROUGH 4)

1. Arbor nut must be tight and saw blade guard installed in horizontal position.
2. Arm control lever must be in locked position.
3. Adjust the antikickback assembly so the pawls just clear the workpiece or the fence, whichever is higher.
4. Work must be held firmly against table and fence. For workpieces thicker than the fence is high, install a higher fence (at least workpiece thickness). Always place the fence in the most forward position (farthest from the column support) compatible with the workpiece being processed and the operation being performed. With the carriage fully retracted, the blade must not contact the workpiece when placed against the fence, within the stated capacities of your saw.
5. Blade should be sharp and correctly set.
6. Hands must be kept well away from saw blade.
7. Yoke clamp handle must be in locked position.
8. Bevel index lever must be locked.
9. Blade should cut into the table or plywood cover not more than 1/32 inch.
10. Pull the saw forward just far enough to sever the lumber. It is dangerous if the blade has been pulled too far out beyond the piece being cut. When it is returned it can pick up the right hand piece and throw it over the fence.
11. For operations No. 3 and No. 4, observe additional instructions under paragraph "Operating Controls" "Blade Angle".

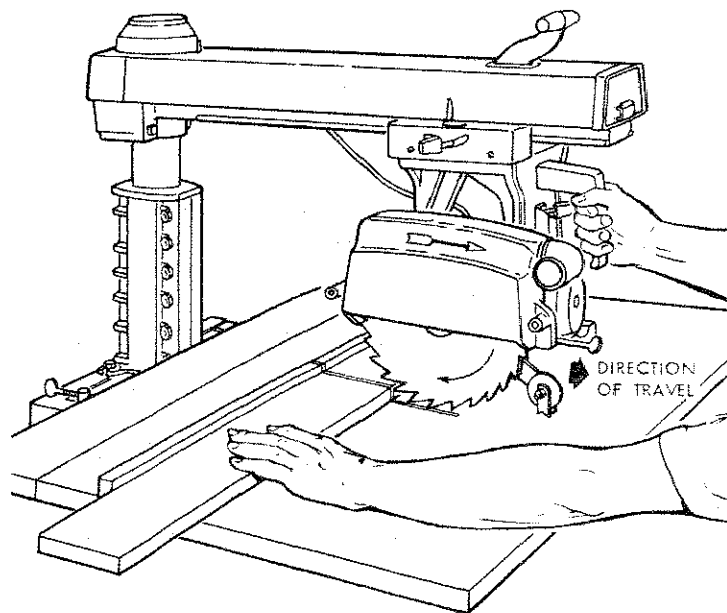
OPERATION No. 1 – CROSSCUT

Crosscutting is the process of sawing the workpiece by pulling the saw blade through it and using the fence as a support for the edge of the workpiece. Never crosscut free-hand.

WARNING: BEFORE CROSSCUTTING, MAKE SURE THE ARM CONTROL LEVER, BEVEL LOCK LEVER AND YOKE CLAMP ARE ALL LOCKED. NEVER USE A LENGTH STOP OR A FIXED GUIDE ON THE FREE END OR EDGE OF A WORKPIECE. DO NOT CROSSCUT WORKPIECES THAT PLACE YOUR HANDS CLOSE TO THE PATH OF THE SAW BLADE. WHEN MORE EXPERIENCE IS GAINED BY USING THE SAW, IT WILL BE NOTICED, THAT WHEN PULLING THE SAW TOWARD YOU DURING CROSSCUTTING, THE BLADE TENDS TO FEED ITSELF THROUGH THE WORK DUE TO THE ROTATION OF THE BLADE AND THE DIRECTION OF THE FEED. THEREFORE, YOU SHOULD DEVELOP THE HABIT OF HOLDING YOUR RIGHT ARM STRAIGHT FROM THE SHOULDER TO THE WRIST.



PROPER
(SEE ITEM "10" AT LEFT)



IMPROPER
(SEE ITEM "10" AT LEFT)

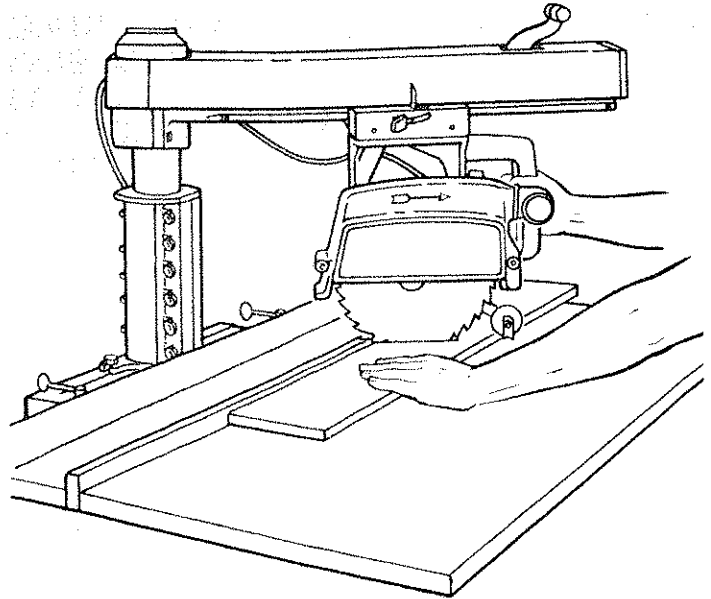
REPETITIVE CROSSCUTTING

Clamp a "C" clamp (min. 6 inch) using a wood block on each side of the arm. This will limit the carriage travel beyond the position necessary to complete the crosscut operation.

basic saw operations

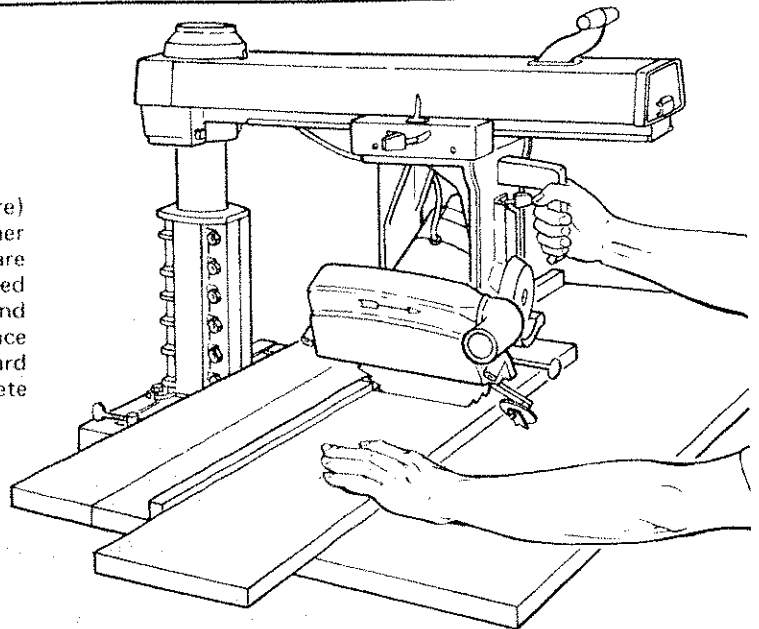
OPERATION No. 2 – MITER CROSSCUT

Miter crosscutting is the process of sawing a board at any angle other than a 90° (square) cut. The 45° miter angle is a popular one, since two boards cut to 45° can be assembled to form a 90° corner for producing a square or rectangular frame. The radial arm is set to the desired angle of cut; yoke and bevel settings indexed at 0° (and locked) as in square crosscutting. The board being cut is held firmly against the fence (guide) and the carriage pulled forward along the radial arm to perform the desired cut. As in "Operation No. 1", the carriage should be returned to full rear position and the saw blade allowed to come to a complete stop before removing the boards from saw table.



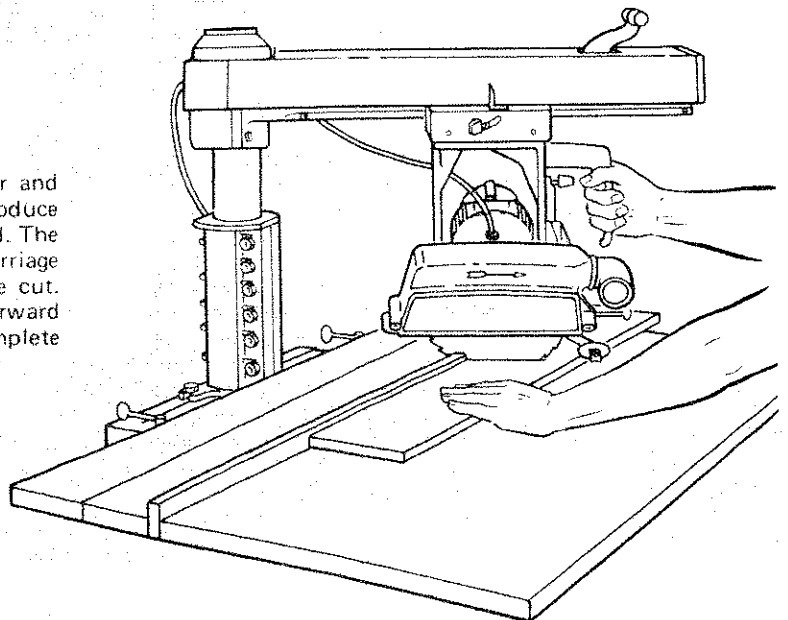
OPERATION No. 3 – BEVEL CROSSCUT

Bevel crosscutting is the process of sawing at 90° (square) across the board with the saw blade set at an angle other than 90° to the saw table. The radial arm and yoke are indexed at 0° and locked, but the bevel is set to the desired angle of cut. The board is held firmly against the fence and the carriage pulled forward along the radial arm to produce the cut. The carriage should be returned to full rearward position and the saw blade allowed to come to a complete stop before removing the boards from saw table.



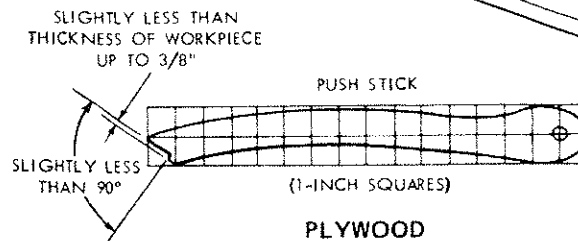
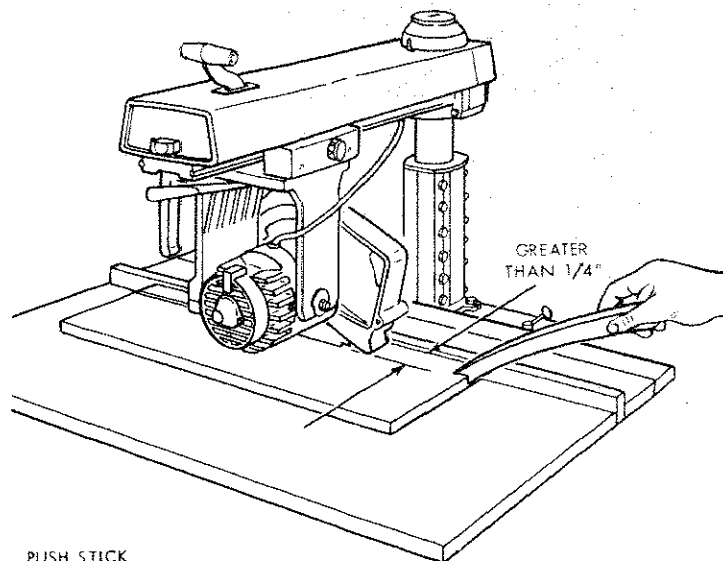
OPERATION No. 4 – COMPOUND CROSSCUT

Compound crosscutting is the combination of miter and bevel crosscuts. The radial arm and bevel are set to produce the desired cut; the yoke is indexed at 0° and locked. The board is held firmly against the fence and the carriage pulled forward along the radial arm to produce the cut. Again, the carriage should be returned to full rearward position and the saw blade allowed to come to a complete stop before removing boards from saw table.



REQUIREMENTS WHEN RIPPING (OPERATIONS 5 AND 6)

1. Carriage lock knob must be locked.
2. Radial arm must be locked in 0° position.
3. Work must be held firmly against table and fence while feeding through.
4. Guard spreader and antikickback mechanism must be properly set. OBSERVE INSTRUCTIONS IN PARAGRAPH, "POSITIONING GUARD, AND ANTIKICKBACK AND SPREADER ASSEMBLY FOR RIPPING" UNDER "LOCATION AND FUNCTION OF CONTROLS".
5. Blade should be sharp and correctly set.
6. When ripping narrow stock, less than 3 inches but more than 1/4 inch between the guard and the fence (guide), use a "Push Stick" at least 1/4" thick and at least 16" long so the workpiece is clear of the blade before your hand contacts the guard.

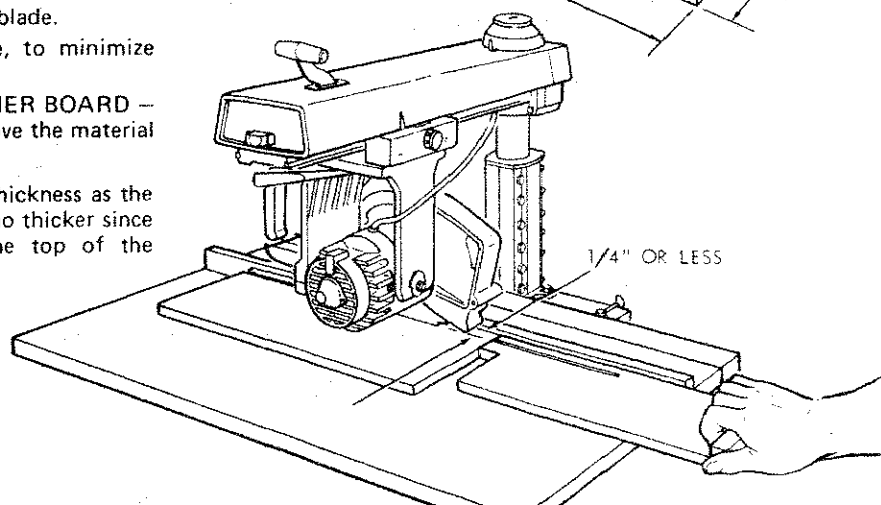
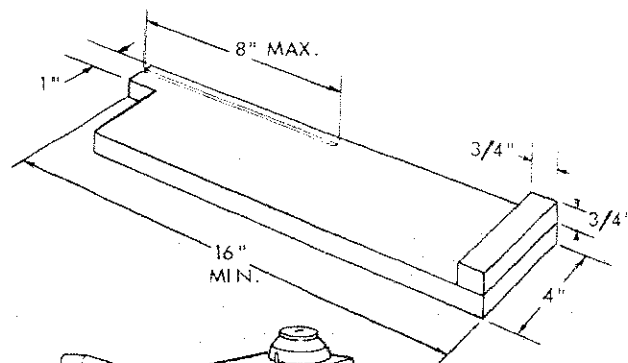


7. When ripping stock 1/4 inch or less between the blade and fence (guide) use a Pusher Board.

Pusher board should not be less than 3 inches wide and 16 inches long. Nail or glue a 3/4 x 3/4 x 4 inch block to one edge of pusher board to be used as a grip.

The pusher board should be fed into the blade behind the stock being ripped until the stock is clear of the rear of the blade (not more than 8 inches so as not to strike antikickback pawls) and then pulled back with use of the grip.

8. Hands must be kept well away from saw blade.
9. Saw blade **MUST** be parallel to fence, to minimize possibility of kickbacks.
10. For every new width of cut, a new **PUSHER BOARD** — or a reworked **PUSHER BOARD** to remove the material containing the kerf — must be used.
11. The pusher board should be the same thickness as the workpiece. No thinner for strength, or no thicker since the nose of the guard must clear the top of the workpiece with minimum clearance.

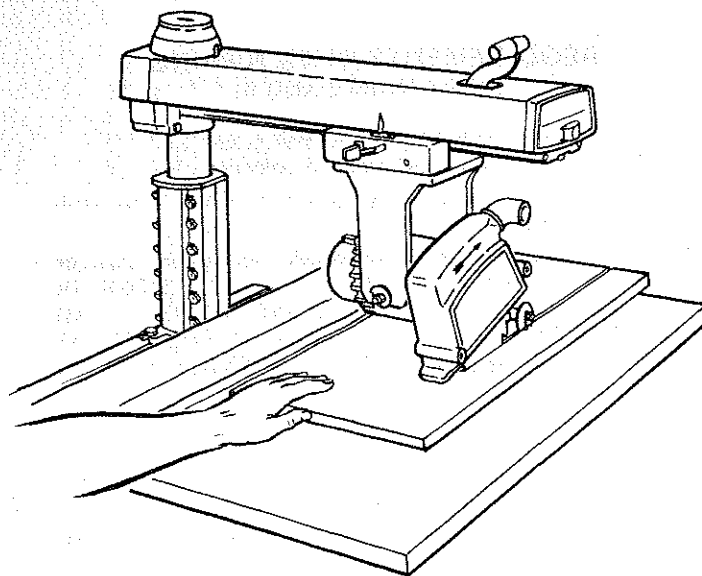


OPERATION No. 5 — OUT-RIPPING AND IN-RIPPING

1. Ripping is the process of sawing the workpiece by feeding it into the saw blade when using the fence as a guide and as a positioning device to obtain the desired width of cut. The sawblade is parallel to the fence.

WARNING: NEVER RIP FREE-HAND. BEFORE RIPPING, MAKE SURE THE GUARD, AND ANTIKICKBACK AND SPREADER ASSEMBLY ARE SET UP PROPERLY. ALSO, MAKE SURE THE SAW BLADE IS PARALLEL WITH THE FENCE. NEVER RIP WORKPIECES SHORTER THAN THE SAW BLADE DIAMETER.

2. Since the work is pushed along the fence, it must have a straight edge in order to make sliding contact with the fence. Also, the work must make solid contact with the table, so that it will not wobble. Provide a straight edge, even if this means temporarily nailing of an auxiliary straight-edged board to the work. If the workpiece is warped, turn the hollow side down.
3. Always use the saw guard and make sure the spreader is correctly aligned with the saw kerf and antikickback pawls properly adjusted. Wood cut with the grain tends to spring the kerf closed and bind the blade and a kickback could occur.
4. Stand a little to one side of center to be clear of work in case of kickback.
5. When ripping short or narrow work, always use a push stick applied to the section of the workpiece between the blade and fence . . . push the work past the blade so it is clear of the blade. This procedure will minimize the possibility of kickbacks.

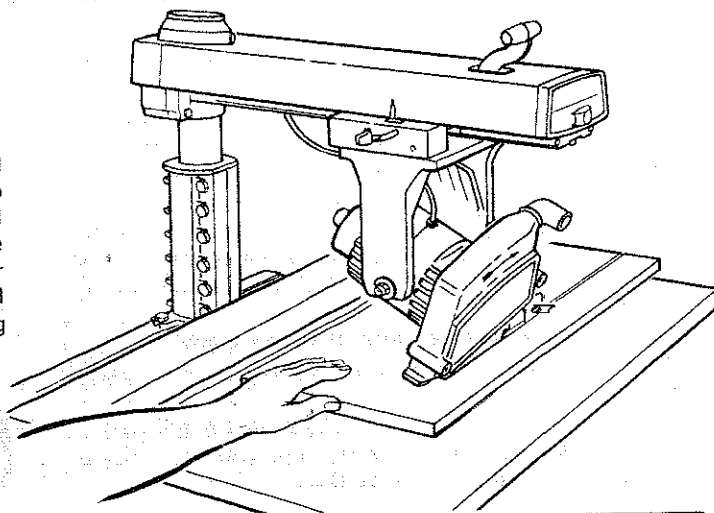


In-Ripping. The radial arm and bevel are indexed at 0° and locked, but the yoke is turned 90-degrees in a clockwise direction (viewed from above) from the crosscut position. Thus, when standing in front of the saw, the blade would be rotating counterclockwise. After positioning the guard and antikickback mechanism the workpiece is fed from the right-hand side of the saw. The "Blade In-Rip" scale is on the left-hand side of radial arm.

Out-Ripping. The radial arm and bevel are indexed at 0° and locked, but the yoke is turned 90-degrees in a counterclockwise direction (viewed from above), from the crosscut position. When standing in front of the saw, blade would be rotating clockwise. After positioning the guard and antikickback mechanism the workpiece is fed from the left-hand side of the saw. The "Blade Out-Rip" scale is on the left hand side of radial arm.

OPERATION No. 6 – BEVEL RIPPING

Bevel ripping is either in-ripping or out-ripping as described above, except the saw blade is tilted out of perpendicular to the saw table surface. The radial arm is indexed at 0° and locked, the bevel is set to the desired bevel angle and the yoke is positioned for in-ripping (saw blade at rear) or out-ripping (saw blade at front), as required. All requirements and observations applicable to normal ripping operations also apply to bevel ripping.



DADOING

Instructions for operating the Dado Head are contained in booklet furnished with the Dado Head.

The saw arbor is designed for dado heads up to $13/16$ inches wide. Do not install a wider dado head on the arbor. Take several passes if required dado cut exceeds $13/16$ inch.

When installing the dado head on the arbor, ALWAYS install the inside "loose collar" first. Be sure the teeth of the chippers are placed to fall in blade gullets, and chippers are approximately equally spaced around the arbor.

DO NOT install the outside loose collar. Make sure the arbor nut is tight. Install the arbor nut directly against the outer blade of dado head.

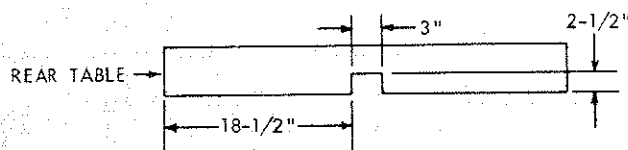
For best results and to avoid excessive load on the motor, NEVER CUT A $13/16$ " WIDE DADO, DEEPER THAN $3/4$ " IN ONE PASS.

NEVER USE A DADO HEAD OR MOLDING HEAD WITH THE SAW ARBOR VERTICAL WITHOUT INSTALLING AND ADJUSTING A MOLDING HEAD/DADO GUARD.

MOLDING/SANDING

Instructions for operating the Molding Head are contained in a booklet furnished with the Molding Head.

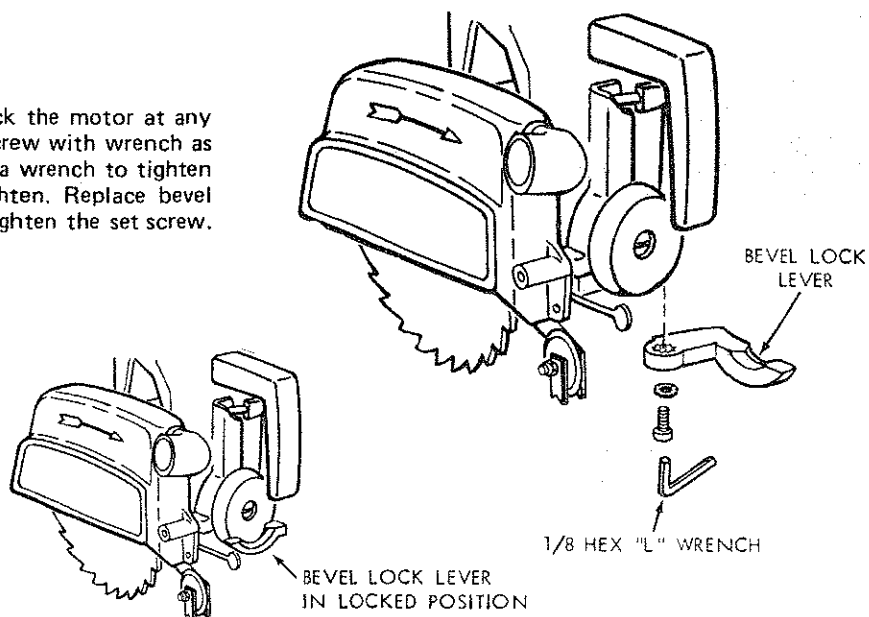
For use of Molding Head Cutter or Drum Sander the rear table requires an opening (next to rear face of fence) for clearance. Cut this opening as shown.



adjustments to compensate for wear

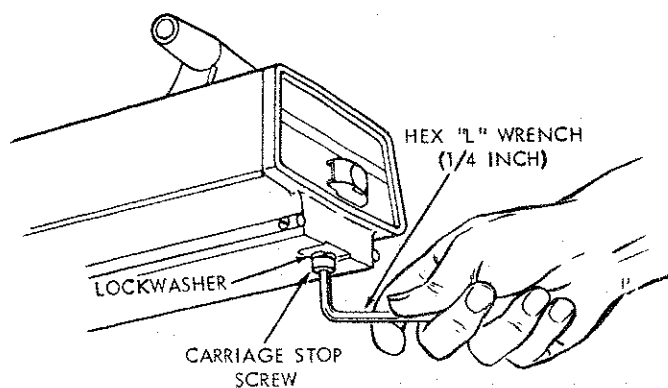
ADJUSTING BEVEL LOCK LEVER

1. The purpose of this lever is to lock the motor at any angle. To adjust, remove the set screw with wrench as shown. Use the bevel lock lever as a wrench to tighten the clamp bolt. Do Not Over Tighten. Replace bevel lock lever in locked position and tighten the set screw.



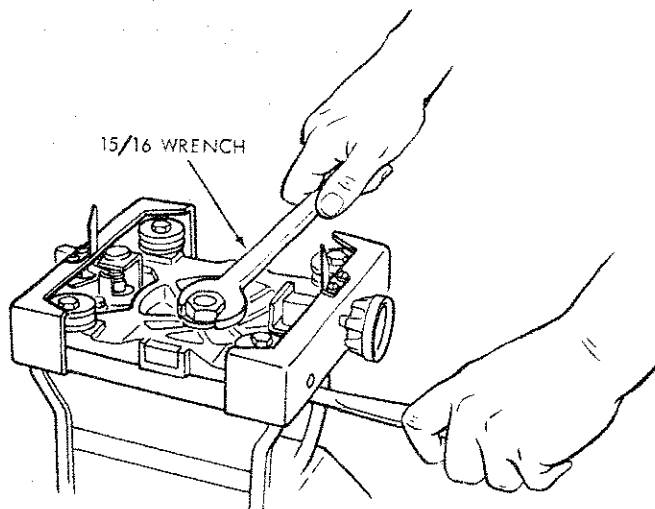
YOKE LOCK HANDLE ADJUSTMENT.

1. This handle provides a friction lock between the upper face of the yoke and the bottom face of the carriage. It should eliminate any play or rotation between these two parts when locked. Its proper position for saw operation is approximately midway between the two sides of the yoke.
When sufficient wear has occurred to permit the handle to move considerably to the rear, or strike the yoke before locking, the handle must be adjusted as follows:
2. Remove carriage stop screw and lockwasher with a 1/4 inch hex-L wrench.
3. Grasp the carriage assembly, move it carefully off the end of radial arm, holding it parallel to the radial arm until all carriage bearings are free of their tracks.
4. Rest the motor and carriage assembly on saw work table and re-install carriage stop screw and lockwasher.



To Readjust

5. Set yoke lock handle at unlocked position. Tighten nut with 15/16 wrench, until lock handle locks mid-way between the two sides of the yoke. Remove carriage stop screw and lockwasher.
6. Hold the motor and carriage assembly parallel to radial arm and start the rear bearings onto the tracks. Continue to hold the assembly parallel to the tracks until the forward bearings are on the tracks.
7. Slide the carriage rearward on the radial arm and INSTALL THE CARRIAGE STOP SCREW AND LOCKWASHER.



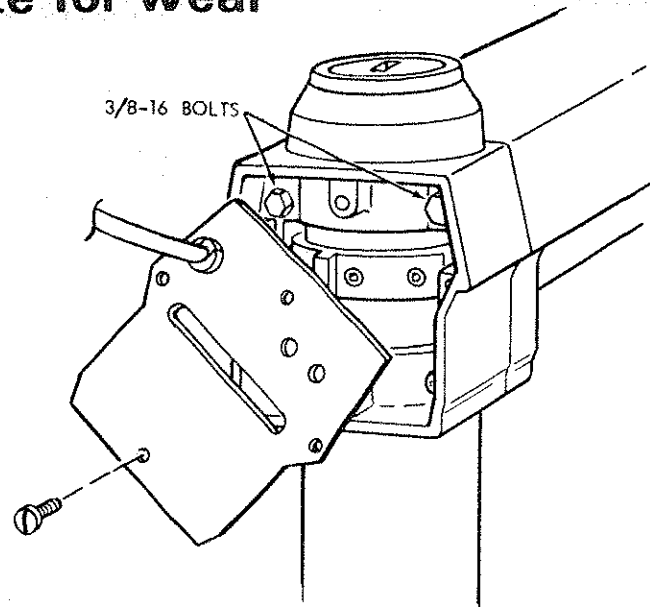
adjustments to compensate for wear

ARM TO COLUMN

1. With the arm control lever unlocked and in index release position, the arm should move firmly with no vertical play in the arm.

The arm should fit snugly on the column. If not, then adjust.

- a. Remove four (4) screws from rear cover plate and tighten evenly top two 3/8-16 bolts, until arm moves firmly and there is no vertical or horizontal movement in the arm when arm control lever is locked or unlocked.
- b. Bottom two nuts should be snugged evenly, but not nearly as tight as top two bolts.
- c. Re-Install Rear Cover Plate.

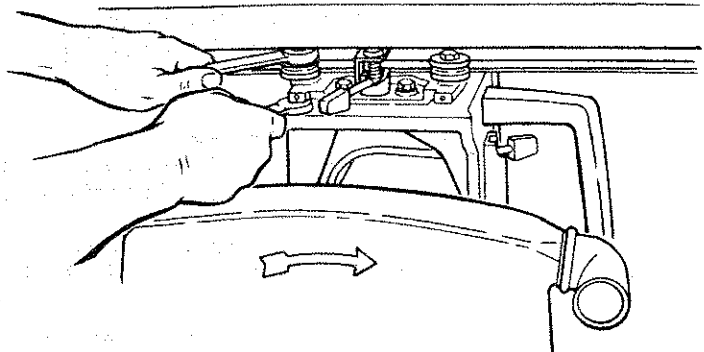
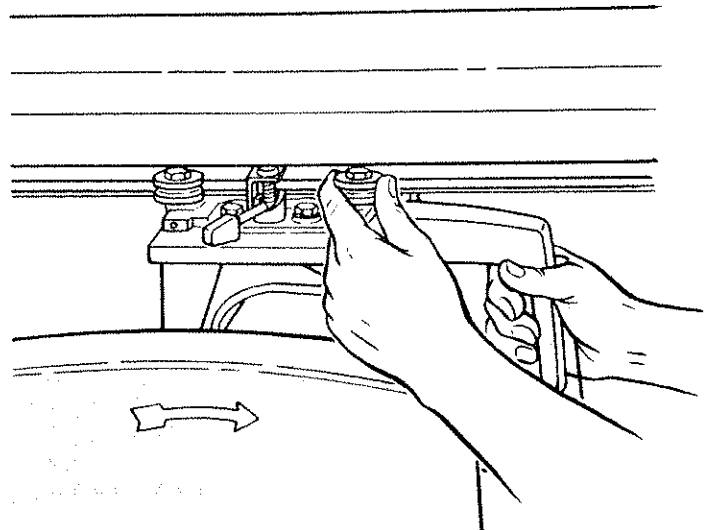
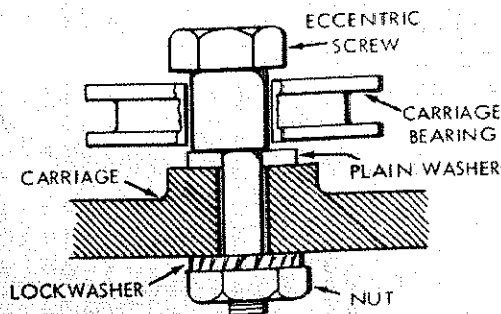


ADJUSTING CARRIAGE BEARINGS

In proper adjustment the top and bottom radii of all four bearings should be in contact with the arm tracks for their entire length and carriage should roll freely but with some resistance.

To test for looseness between bearings and tracks on radial arm, perform the following steps.

1. Remove left-hand carriage cover.
2. Push the carriage to its full most rearward position.
3. Finger hold front carriage bearing as shown and apply as much force as possible and at the same time pull carriage forward. If you can stop the bearing from turning it will require adjusting.
4. Check rear bearing in the same manner and adjust as follows:
 - a. Loosen nuts just enough to permit the eccentric screws to turn.
 - b. Rotate the eccentric screws a partial turn (left or right) as required to take up looseness.
 - c. Hold the heads of eccentric step and tighten nuts on underside of carriage. Correct adjustment exists when you cannot keep the bearings from turning. However, excessive bearing pressure will cause difficult operation and rapid wear.
- d. Install carriage cover.



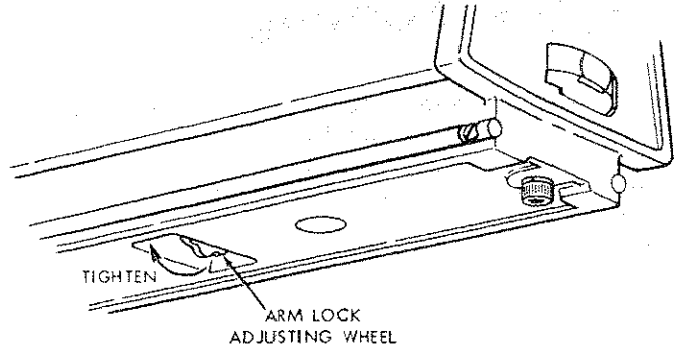
ARM LOCK ADJUSTING WHEEL

Arm control lever operates a brake shoe that locks and releases the arm, and automatically releases the arm index pin for 0° & 45° miter settings.

The lock action should feel tight and secure. Considerable amount of effort must be applied to the lever to lock the arm.

NOTE: Lever must be in unlocked position while making adjustment.

If adjustment is required, turn arm lock adjusting wheel under front of the arm clockwise to tighten, counter-clockwise to loosen.



ARM INDEX ROD ADJUSTMENT

At some time it may be necessary to make an adjustment to the Arm Index Rod, to compensate for wear in the Indexing System.

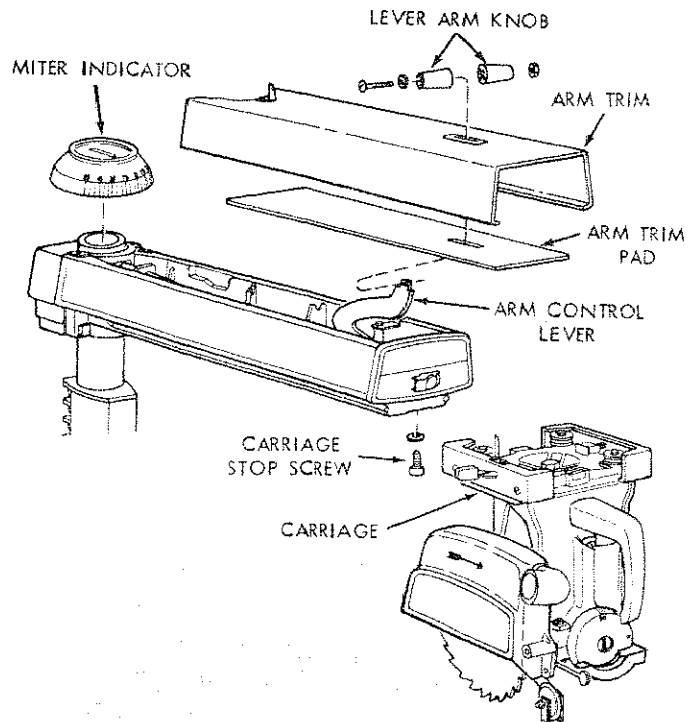
An indication that this adjustment must be made is when one of the following occurs:

IMPORTANT: ARM LOCK/ADJUSTING WHEEL (SEE ABOVE) MUST BE PROPERLY ADJUSTED AT THIS TIME.

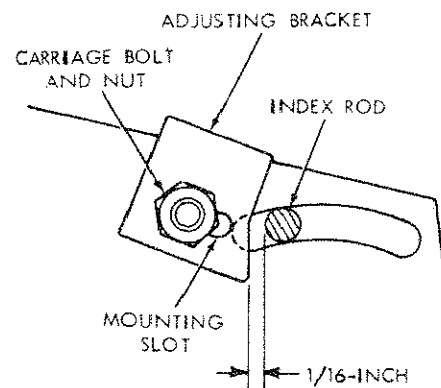
1. With the arm control lever pulled forward and held in the "Index Release" position, the arm cannot be moved out of the Indexed position. (Index pin not fully retracting from Index ring).
2. With the arm in one of the Index positions and the arm control lever allowed to rest in the **Unlocked** position (with the column tube supports and gibs adjusted properly eliminating all play in this area). A slight side to side movement is noticeable at the front of the arm. (Index pin not fully seated in Index Ring).

To make an adjustment to the arm Index rod the following steps must be taken.

1. **Removing Arm Trim (Shroud)**
 - a. Remove miter indicator. Snap fit.
 - b. Remove miter scale by removing two #10 Pan Head screws.
 - c. Remove knobs from arm control lever.
 - d. Remove stop screw and lockwasher in arm. Remove carriage. **RE-INSTALL STOP SCREW AND LOCKWASHER.**
 - e. Grasp arm trim and remove.
 - f. Remove arm trim pad.



2. **Adjusting Index Rod.**
 - a. Loosen carriage bolt and nut which holds adjusting bracket in place.
 - b. Position arm in 0° Index.
 - c. Bring adjusting bracket forward until it is approximately 1/16 inch from contacting Index rod. Or until it is in the extreme forward position on the mounting slot.
 - d. Tighten carriage bolt & nut. Test indexing action in all Index positions.
3. **Reinstall parts that have been removed.**
 - a. Install arm trim pad.
 - b. Remove Carriage Stop Screw and Lockwasher and install carriage. **RE-INSTALL CARRIAGE STOP SCREW, AND LOCKWASHER.**
 - c. Install lever arm knob.
 - d. Install miter scale and miter indicator. Set miter indicator to 0°.



trouble-shooting

WARNING: REMOVE POWER CORD FROM POWER SOURCE BEFORE TROUBLE SHOOTING.

NOTE: Changing one adjustment will effect another, so it is best to perform all of the alignment procedures when correcting any one problem.

The usual operating "troubles" are listed in the following paragraphs with the necessary corrections listed.

1. RADIAL SAW DOES NOT MAKE ACCURATE 0° or 45° MITER CROSSCUTS.

- a. **Looseness between column tube and column support.**

Align as described in Alignment Procedure Section Step Two.

- b. **Crosscut travel not properly adjusted.**

Refer to Step Three in Alignment Procedure Section Squaring Crosscut Travel.

- c. **Column is Loose in Support.**

Refer to Step Two in Alignment Procedure.

- d. **Arm Not Indexing Properly.**

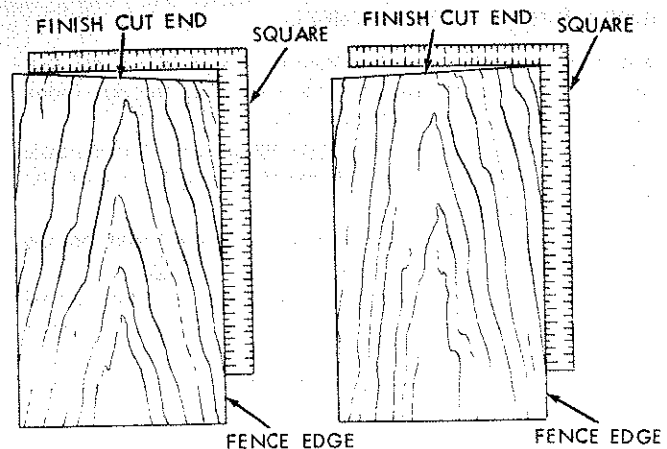
Refer to Arm Index Rod Adjustment in Adjustments to Compensate for Wear section.

- e. **Carriage Assembly Loose on Arm.**

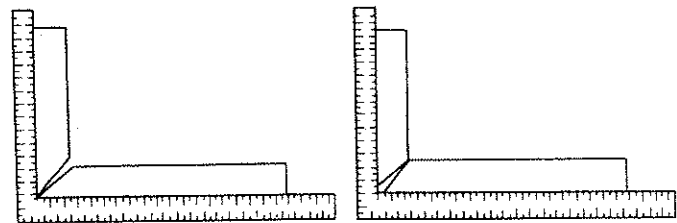
Refer to Carriage Bearing Adjustment in adjustment to Compensate for Wear Sections.

- f. **Looseness between Yoke and Carriage Assembly.**

Refer to "Yoke Lock Handle" adjustment in adjustment to Compensate for Wear Section.



FINISH CUT LOOKS LIKE THIS - 0° CROSSCUT



OR LIKE THIS - 45° MITER.

- g. **Sawdust between Work Piece and Fence.**

Keep Front Work Table Clean.

- h. **Rip Fence Not Straight.**

Replace Fence.

2. SAW CUTS AT ANGLE - NOT 90° TO TABLE TOP.

- a. **Table support channels not properly leveled.**

Refer to Step One under Alignment Procedure Section.

- b. **Blade not square to work table top.**

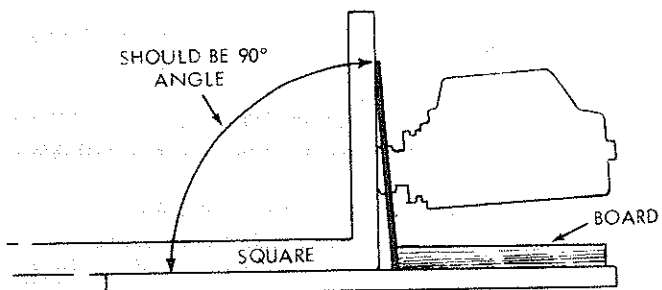
Refer to Step Four in Alignment Procedure Section.

3. BLADE ANGLE (BEVEL) CUTS NOT ACCURATE.

- a. **Corrective Action is the same as paragraph 2A and B above.**

- b. **Carriage Bearings Loose.**

Refer to adjusting carriage bearing in adjustments to compensate for wear section.



- c. **Bevel Lock Handle Loose.**

Refer to Adjustment Bevel Lock Handle in Adjustment to Compensate for Wear Section.

4. SAW KERF (CUT EDGE) OF STOCK ROUGH - TOOTH MARKS LEFT ON EDGE OF SAW KERF.

NOTE: This condition is commonly called "HEEL".

- a. **Crosscutting or Miter Cutting**

"Heeling" will tend to slide the workpiece along the guide fence, as the cut is being made, and make a square cut almost impossible.

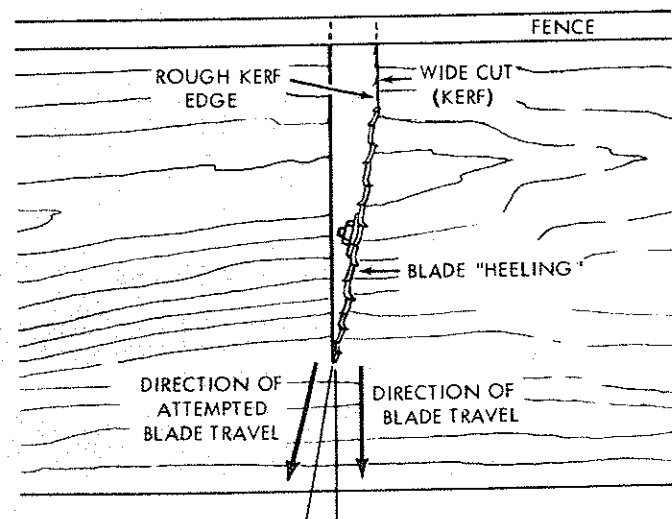
Refer to step 5 under Alignment Procedure Section - "Squaring Blade to Fence."

- b. **Bevel Crosscutting Or Bevel Ripping**

Refer to Step 5 Under Alignment Procedure Section Vertical Heel Adjusting.

- c. **Using Improper Blade for Finish Cut Desired.**

Use Proper Smooth Cutting Blade.



trouble-shooting

5. WOOD BINDS, SMOKES AND MOTOR SLOWS DOWN OR STOPS WHEN RIPPING.

- Dull blade or warped board.**
Sharpen or replace the saw blade. Avoid the attempted use of severely warped material.
- Feed rate too fast.**
Slow Feed Rate.
- Saw blade heels.**
Check and align as described in Alignment Procedure Section, Step Five.
- Fence not straight.**
Replace fence.
- Carriage Assembly Loose on Arm.**
Refer to adjusting carriage bearings in adjustments to compensate for wear section.

6. BOARD PULLS AWAY FROM FENCE WHEN RIPPING.

- Saw Blade has heel.**
Corrective action is the same as preceding instructions explained in paragraph c.

7. WORKPIECE STRIKES SPREADER WHEN RIPPING.

- Adjust spreader per instructions in Step Six under "Alignment of Spreader for Ripping".**

8. SAW DOES NOT TRAVEL SMOOTHLY ON ARM TRACKS.

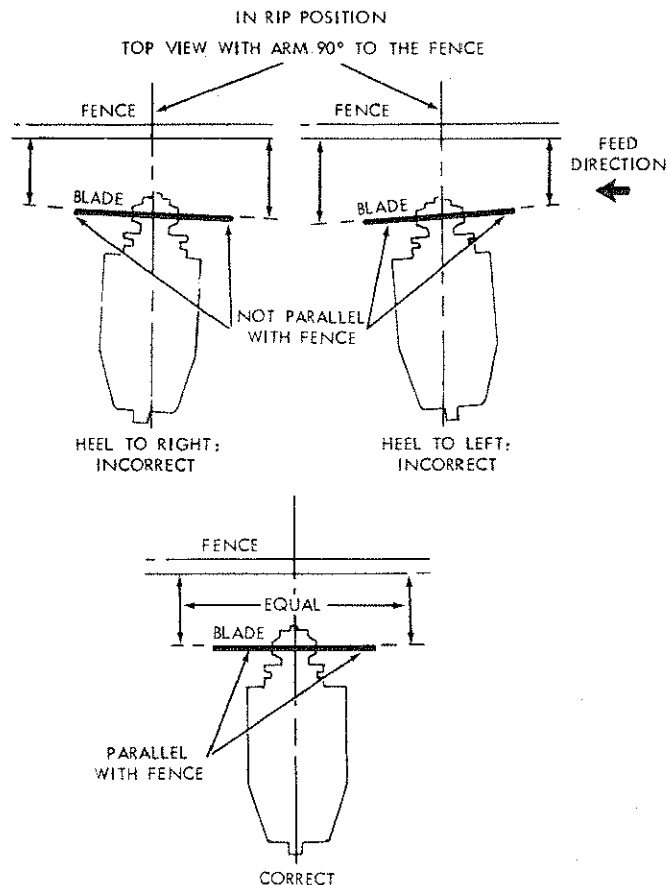
- Dirty tracks.**
Clean Tracks.
- Bad Bearing.**
Replace Bearing.
- Worn Tracks**
Replace Tracks

9. CLAMPING FORCE NOT SUFFICIENT AT MITER ANGLES OTHER THAN 45°.

- Arm Control Lever requires Adjustment.**
Refer to Arm Lock Adjusting Wheel in Adjustments to Compensate for Wear Section.

10. CLAMPING FORCE NOT SUFFICIENT AT BEVEL ANGLES OTHER THAN 45°.

- Bevel Lock Lever Requires adjusting.**
Refer to Adjusting Bevel Lock Lever in Adjustments to Compensate for Wear Section.



11. DEPTH OF CUT VARIES FROM ONE END OF WORK PIECE TO THE OTHER.

- Table Top not parallel with Arm.**
Refer to Attaching and Leveling table Mtg. Support Channels in Step One Align. Section.

12. BLADE TENDS TO ADVANCE THRU LUMBER TOO FAST.

- Dull Blade.**
Replace or sharpen blade.
- Not advancing Saw Blade properly.**
Draw Saw Blade across lumber with a slow and steady pull.

MOTOR TROUBLE - SHOOTING CHART

NOTE: Motors used on wood-working tools are particularly susceptible to the accumulation of sawdust and wood chips and should be blown out or "vacuumed" frequently to prevent interference with normal motor ventilation.

TROUBLE	PROBABLE CAUSE	SUGGESTED REMEDY
Motor will not run.	1. Low voltage.	1. Check power line for proper voltage.
Motor will not run and fuses "BLOW".	1. Short circuit in line, cord or plug. 2. Incorrect fuse in power line.	1. Inspect line, cord and plug for damaged insulation and shorted wires. 2. Install 15 amp Time Delay Fuse.
Motor fails to develop full power. (Power output of motor decreases rapidly with decrease in voltage at motor terminals. For example: a reduction of 10% in voltage causes a reduction of 19% in maximum power output of which the motor is capable, while a reduction of 20% in voltage causes a reduction of 36% in maximum power output.)	1. Power line overloaded with lights, appliances and other motors. 2. Undersize wires or circuit too long. 3. General overloading of power company's facilities. (In many sections of the country, demand for electrical power exceeds the capacity of existing generating and distribution systems.)	1. Reduce the line load. 2. Increase wire sizes, or reduce length of wiring. 3. Request a voltage check from the power company.
Motor overheats.	1. Excessive feed rate when crosscutting or ripping. 2. Improper cooling. (Air circulation restricted through motor due to sawdust, etc.) 3. Saw blade has "heel".	1. Slow down rate of feed. 2. Clean out sawdust to provide normal air circulation through motor. 3. Refer to Alignment Procedure Section of manual Step Five.
Motor starts slowly or fails to come up to full speed.	1. Low Voltage -- will not trip starting switch. 2. Blade teeth wedged into table.	1. Correct low voltage condition. 2. Free blade from table.
Motor stalls (resulting in blown fuses or tripped circuit breakers).	1. Voltage too low to permit motor to reach operating speed. 2. Fuse or circuit breaker do not have sufficient capacity.	1. Correct the low line voltage condition. 2. Replace fuse with 15 amp Time Delay Fuse.
Frequent opening of fuses or circuit breakers.	1. Motor overloaded. 2. Fuse does not have sufficient capacity.	1. Reduce motor load. 2. Replace fuse with 15 amp Time Delay Fuse.

maintenance and lubrication

MAINTENANCE

WARNING: FOR YOUR OWN SAFETY, TURN SWITCH "OFF" AND REMOVE PLUG FROM POWER SOURCE OUTLET BEFORE MAINTAINING OR LUBRICATING YOUR SAW.

When you receive your new Craftsman radial saw, it requires no lubrication. The radial saw has been partially aligned and all bearings are lubricated and sealed for life. In time, however, in order to keep your saw in perfect working order and accurate, it will be necessary to lubricate and realign. In fact, your radial saw needs more of a cleaning than a lubrication.

Make sure the teeth of the ANTIKICKBACK pawls are always sharp. Replace if not sharp.

LUBRICATION

Your saw is precision built and should be kept clean and properly lubricated. Before describing the various points which may periodically require lubrication, IT IS MORE IMPORTANT TO FIRST MENTION THE VARIOUS POINTS WHICH SHOULD NOT BE LUBRICATED.

NO LUBRICATION REQUIRED

Do not lubricate carriage ball bearings or motor bearings as these are sealed ball bearings and require no added lubrication.

Do not lubricate between radial arm cap and radial arm.

PERIODICALLY LUBRICATE THESE POINTS

Use SAE No. 10W-30 automotive engine oil and refer to Parts List for locations. Apply a few drops of oil along the swivel latch pin and bevel index pin only if the pin has a tendency to stick. Remove the left-hand carriage cover and use oil sparingly to prevent it from getting on the ball bearings or races.

A light film of oil should be wiped on the face of the column tube to lubricate the fit between the column tube, and column support.

The thread on the elevation shaft assembly can be lubricated through the oil hole in the center of the radial arm cap.

CAUTION: Excessive oil at any location will attract airborne dust particles and sawdust.

recommended accessories

ITEM	CAT.NO.
Stand	9-27541
Casters	9-27531
Key Chuck	9-28612
*Molding Head Guard — 7-inch	9-27035
Rotary Surface Planer — Carbide Tip	9-27033
Sanding Wheel — 10-inch	9-28320
Dust Collector	9-28124
Taper Jig	9-27049
*Satin Cut Dado — 7-inch	9-27720
*Satin Cut Dado — 8-inch	9-27721
*Molding Head Single Cutter	9-27605
*Molding Head Three Cutter 4-3/4" dia.	9-27731
Sanding Drum — 3-inch	9-28435
Lower Retractable Guard	9-29009
"Power Tool Know How Handbook"	
Radial Saw (English Only)	9-28617

*Before purchasing or using any of these accessories, read and comply with additional safety instructions No. "(D)2" on p. 4 of this manual.

The above recommended accessories are current and were available at the time this manual was printed.

repair parts

PARTS LIST FOR CRAFTSMAN 10-INCH RADIAL SAW MODEL NUMBER 113.19760C

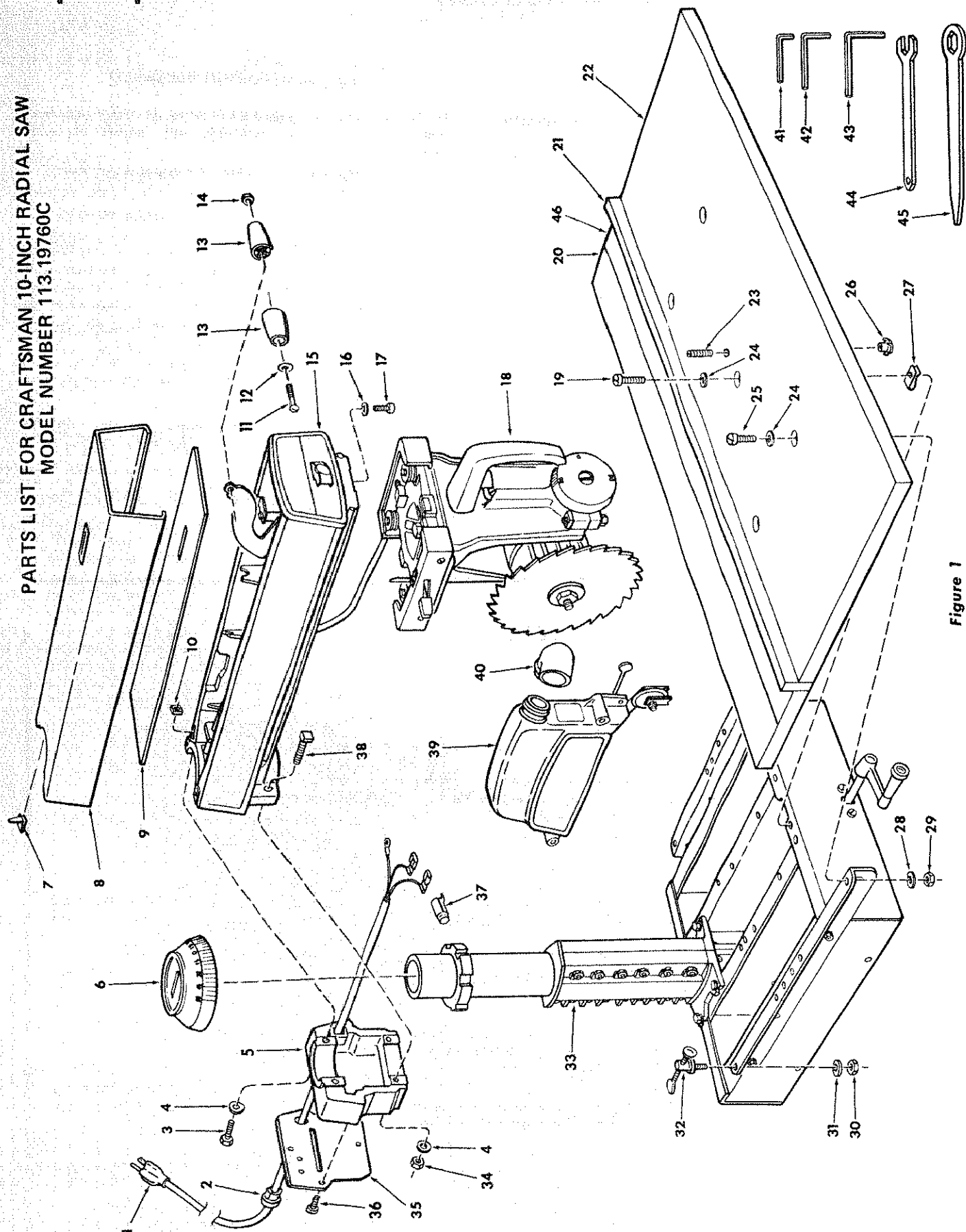


Figure 1

PARTS LIST FOR CRAFTSMAN 10-INCH RADIAL SAW
MODEL NUMBER 113.19760C

Always order by Part Number — Not by Key Number.

FIGURE 1

Key No.	Part No.	Description	Key No.	Part No.	Description
1	63518	Cord, with Plug	26	37384	Nut, Tee
2	37818	Relief, Strain	27	37530	Nut, "U" Clip
3	60339	*Screw, Hex Hd. Locking, 3/8-16 x 2-1/4	28	STD 551125	*Lockwasher, 1/4
4	60353	*Washer, .380 x 7/8 x 1/8	29	STD 541025	*Nut, Hex 1/4-20
5	63625	Arm, Rear	30	STD 541431	*Nut, Lock 5/16-18
6	63719	Cap, Radial Arm	31	STD 551031	*Washer, 21/64 x 9/16 x 1/16
7	63717	Indicator, Miter	32	63536	Clamp, Table
8	63754	Trim Assembly	33	—	Base Assembly, See Fig. 3
9	63686	Pad, Arm Trim	34	STD 541437	*Nut, Lock 3/8-16
10	125525	Nut, Square 3/8-16	35	63666	Plate, Rear Cover
11	436594	Screw, Pan Hd. 10-32 x 1-1/2	36	STD 601103	*Screw, Type T Pan Hd. 10-32 x 3/8
12	STD 551010	*Washer, 13/64 x 7/16 x 1/16	37	63467	Cap, Flag Terminal
13	63671	Knob, Lever Arm	38	60342	Bolt, Sq. Hd. 3/8-16 x 2-1/4
14	STD 541110	*Nut, Hex 10/32			High Strength
15	—	Arm Assembly, See Fig. 4	39	—	Guard Assembly, See Fig. 5
16	STD 551131	*Lockwasher, 5/16	40	63258	Elbow, Dust
17	9421620	Screw, Soc. Hd. Cap 5/16-18 x 1/2	41	30505	*Wrench, Hex "L" 1/8
18	—	Yoke Assembly, See Fig. 2	42	63683	Wrench, Hex "L" 3/16
19	STD 512520	*Screw, Pan Hd. 1/4-20 x 1-3/4	43	63682	Wrench, Hex "L" 1/4
20	63721	Table, Rear	44	63062	Wrench, Shaft
21	63432	Fence, Rip	45	3540	Wrench, Arbor
22	63720	Table, Front	46	63769	Table Spacer
23	102711	Screw, Set Sl. Cup 1/4-20 x 1	—	63723	Bag, Loose Parts (Not Illustrated)
24	STD 551025	*Washer, 17/64 x 5/8 x 1/32	—	63724	Bag, Loose Parts (Not Illustrated)
25	STD 512510	*Screw, Pan Hd. 1/4-20 x 1	—	63753	Owners Manual (Not Illustrated)

*Standard Hardware Item — May be Purchased Locally.

repair parts

PARTS LIST FOR CRAFTSMAN 10-INCH RADIAL SAW
MODEL NUMBER 113.19760C

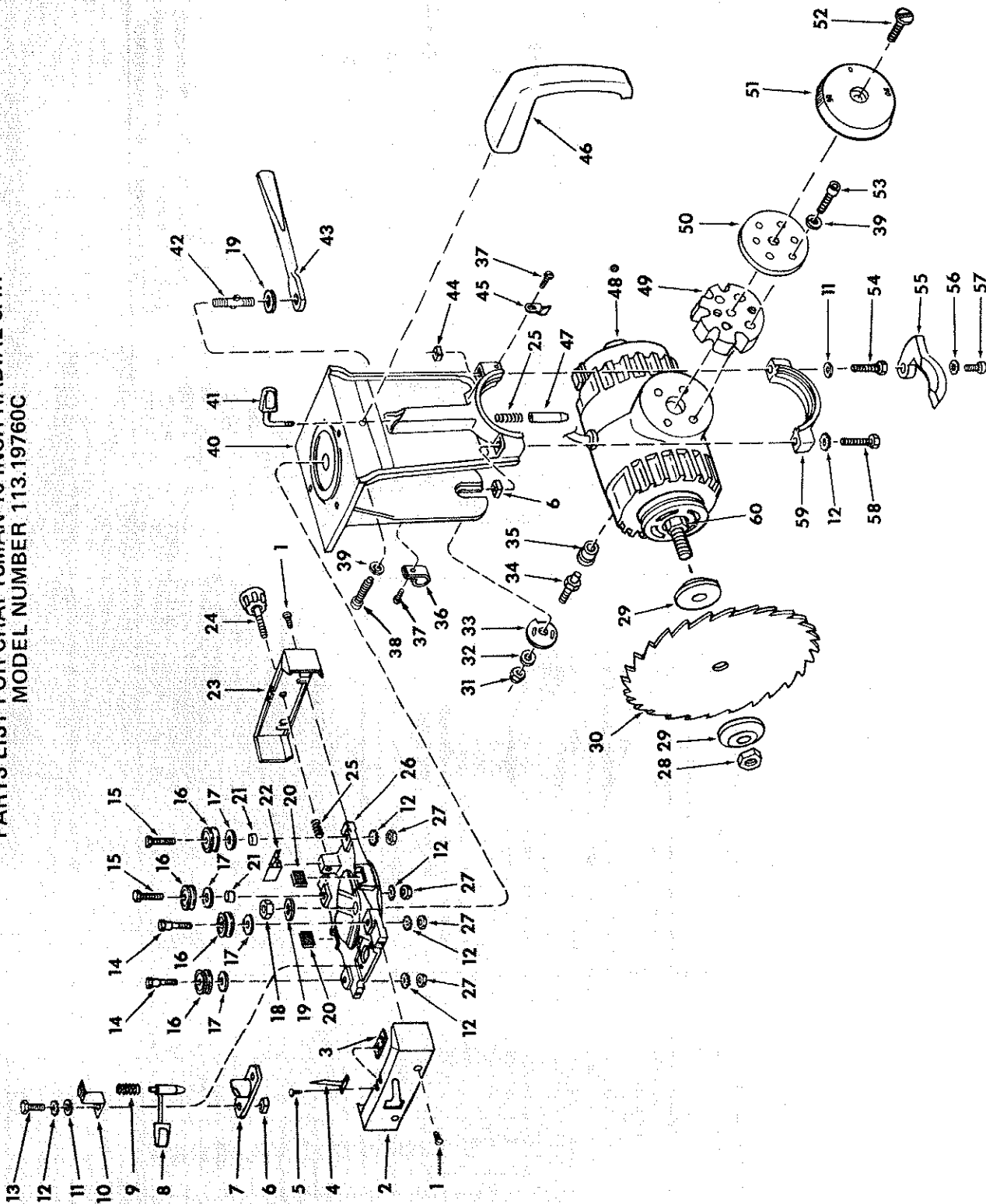


Figure 2

**PARTS LIST FOR CRAFTSMAN 10-INCH RADIAL SAW
MODEL NUMBER 113.19760C**

FIGURE 2 — YOKE ASSEMBLY

Key No.	Part No.	Description	Key No.	Part No.	Description
1	STD 601105	*Screw, Type "T" Pan Hd. 10-32 x 1/2	31	STD 541411	*Nut, Lock 3/8-16
2	63661	Cover, L.H. Carriage	32	STD 551037	*Washer, .380 x 47/64 x 1/16
3	30530	Nut, Speed	33	63652	Cam, Motor
4	63679	Indicator, Rip	34	63651	Stud, Motor
5	STD 510605	*Screw, Pan Hd. 6-32 x 1/2	35	63469	Bushing, Rubber
6	120399	Nut, Square 5/16-18	36	30613	Clamp, Cord
7	63657	Housing, Index Pin	37	STD 600803	*Screw, Type "T" Pan Hd. 8/32 x 5/16
8	63655	Pin Assembly, Index	38	9421623	Screw, Hex Soc. Cap 5/16-18 x 7/8
9	63658	Spring, Index	39	STD 551131	*Lockwasher, 5/16
10	63656	Bracket, Spring	40	63755	Yoke
11	STD 551031	*Washer, 21/64 x 3/4 x 1/16	41	63648	Knob Assembly, Bevel Index
12	STD 551131	*Lockwasher, 5/16, Ext. Tooth	42	63643	Stud, Yoke Clamp
13	STD 523107	*Screw, Hex Hd. 5/16-18 x 3/4	43	63644	Handle, Yoke Lock
14	37387	Screw, Eccentric	44	60333	Nut, Square L.H. 5/16-18
15	60336	Bolt, Hex Hd. 5/16-18 x 1-1/2	45	63713	Indicator, Bevel
16	63117	High Strength	46	63714	Handle, Yoke
17	60040	Bearing, Carriage	47	63645	Pin, Index
18	STD 541462	*Washer, 21/64 x 3/4 x .062	48	63774	Motor
19	STD 551062	*Nut, Lock 5/8-11	49	63649	Ring, Index
20	30567	*Washer, .630 x 1.125 x .093	50	63650	Plate, Retainer
21	37388	Bumper	51	63712	Scale, Bevel
22	63528	Bearing, Sleeve	52	60343	Screw, Pan Hd. 5/16-18 x 1
23	63659	Shoe, Rip Lock	53	9421627	Screw, Soc. Cap 5/16-18 x 1-5/8
24	63660	Cover, R.H. Carriage	54	60335	Screw, Hex Hd. L.H. 5/16-18 x 2
25	30521	Knob Assembly	55	63647	Lever, Bevel Lock
26	63641	Spring, Swivel Latch	56	STD 551210	*Lockwasher, External No. 10
27	STD 541231	*Nut, Hex Jam 5/16-18	57	60334	Screw, Hex Soc. Button Hd. Cap 10-32 x 5/8
28	30495	Nut, Shaft	58	STD 523120	*Screw, Hex Hd. 5/16-18 x 2
29	30494	Collar	59	63646	Cap, Yoke
30	60175	† Blade, Saw	60	63711	Spacer, Motor

* Standard Hardware Item — May be Purchased Locally.

† Stock Item — May be secured through the hardware departments of most Sears Retail Stores or Catalog Order Houses.

* Any attempt to repair this motor may create a hazard unless repair is done by a qualified service technician. Repair service is available at your nearest Sears Store. Motor relay (See Fig. 4) must accompany motor when motor is returned for service.

repair parts

PARTS LIST FOR CRAFTSMAN 10-INCH RADIAL SAW MODEL NUMBER 113.19760C

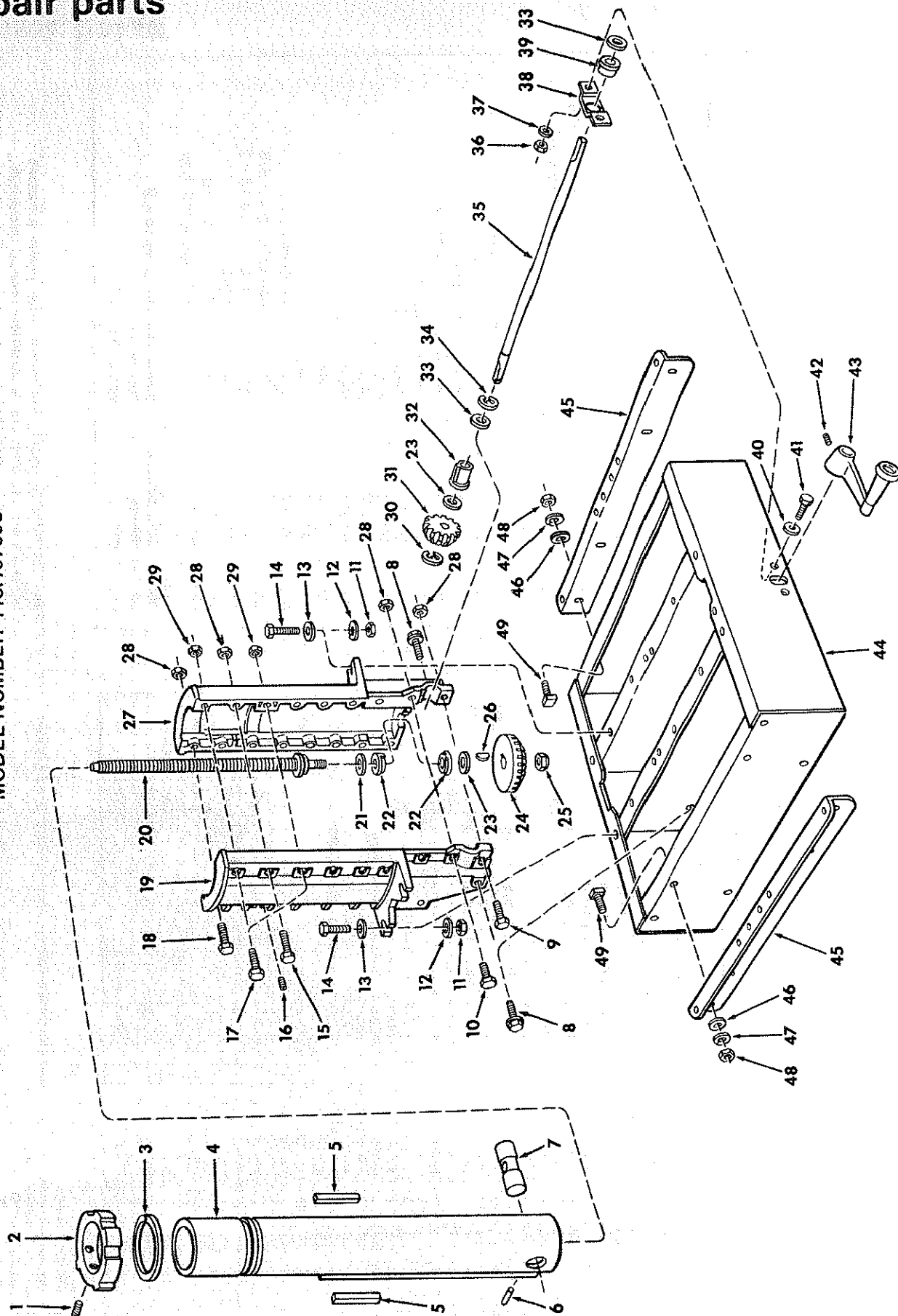


Figure 3

PARTS LIST FOR CRAFTSMAN 10-INCH RADIAL SAW
MODEL NUMBER 113.19760C

FIGURE 3 — BASE ASSEMBLY

Key No.	Part No.	Description
1	STD 503705	*Screw, Soc. Set 3/8-16 x 1/2
2	63623	Latch, Arm
3	60330	Ring, Retaining 3"
4	63611	Tube Assembly
5	63610	Gib, Column Tube
6	STD 572510	*Pin, Roll 1/4 x 3/4
7	63612	Nut, Elevation
8	9416187	Screw, Type "T" Hex Washer Hd. 5/16-18 x 3/4
9	STD 523110	*Screw, Hex Hd. 5/16-18 x 1
10	60078	*Screw, Hex Hd. 5/16-18 x 1/2
11	STD 541037	*Nut, Hex 3/8-16
12	STD 551137	*Lockwasher, 3/8
13	60340	*Washer, .380 x 7/8 x 1/8
14	STD 523712	*Screw, Hex Hd. 3/8-16 x 1-1/4
15	186648	Screw, Hex Hd. 5/16-18 x 1-7/8
16	60329	Screw, Locking Set 1/4-20 x 3/8
17	STD 523120	Screw, Hex Hd. 5/16-18 x 1-7/8
18	60336	Screw, Hex Hd. 5/16-18 x 1-1/2 High Strength
19	63609	Support, L.H.
20	63613	Shaft Assembly, Elevating
21	63500	Washer, Thrust .502 x .927 x .031
22	63614	Bearing
23	60300	Washer, 1/2 x 7/8 x .010 (As Required)
24	63615	Gear, Bevel
25		*Nut, Lock 1/2-13
26	STD 580014	*Key, Woodruff 1/8 x 1/2
27	63619	Support, R.H.
28	STD 541031	*Nut, Hex 5/16-18
29	STD 541431	*Nut, Lock 5/16-18
30	STD 581037	*Ring, Retaining 3/8
31	63618	Gear, Pinion
32	63617	Bearing, Elevating Shaft
33	60080	Washer, .515 x .875 x .032
34	STD 581050	*Ring, Retaining 1/2
35	63616	Shaft, Elevating Crank
36	STD 541025	*Nut, 1/4-20
37	STD 551125	Lockwasher 1/4
38	63622	Bracket, Bearing
39	63435	Bushing
40	STD 551012	*Washer, 17/64 x 9/16 x 3/64
41	STD 522505	*Screw, Hex Hd. 1/4-20 x 1/2
42	STD 502503	*Screw, Soc. Set 1/4-20 x 3/8
43	63434	Crank Assembly
44	63621	Base Assembly
45	63673	Channel, Table Mounting
46	STD 551031	*Washer, 11/32 x 7/8 x 1/16
47	STD 551131	*Lockwasher, 5/16
48	STD 541031	*Nut, Hex 5/16-18
49	109163	Bolt, Square Hd. 5/16-18 x 3/4

*Standard Hardware Item — May be Purchased Locally.

repair parts

PARTS LIST FOR CRAFTSMAN 10-INCH RADIAL SAW MODEL NUMBER 113.19760

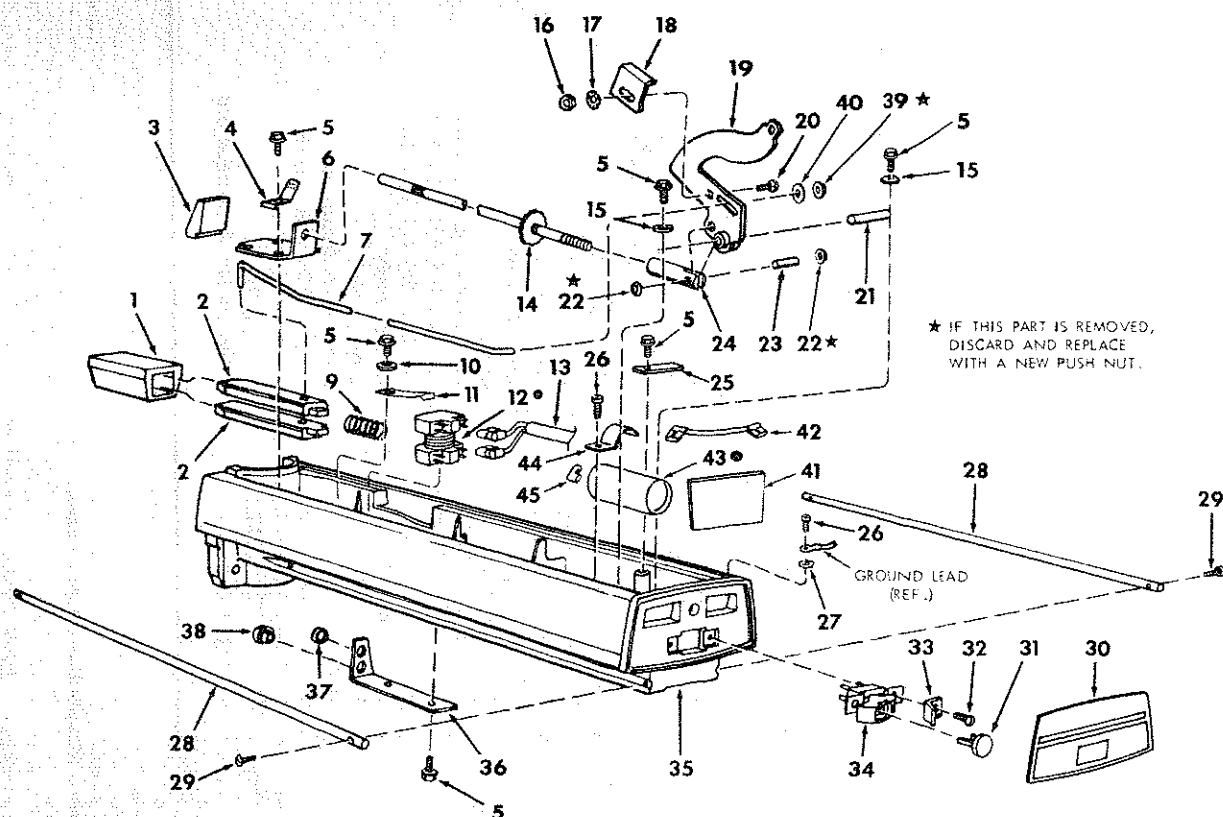


FIGURE 4 – ARM ASSEMBLY

Key No.	Part No.	Description
1	63626	Housing, Pin
2	63629	Pin, Arm Index
3	63631	Shoe, Arm Lock
4	63628	Spring, Tension
5	STD 522507	*Screw, Type "T" Hex Washer Hd. 1/4-20 x 5/8
6	63627	Guide
7	63632	Rod, Index
9	63630	Spring, Arm Lock
10	STD 551025	Washer 17/64 x 47/64 x 1/16
11	63709	Spring, Clip
12	63725	•Relay
13	63716	Cord
14	63633	Rod Assembly, Arm Lock
15	60332	Washer, 21/64 x 1 x 1/8
16	STD 541025	*Nut, Hex 1/4-20
17	STD 551225	*Lockwasher, External 1/4
18	63635	Bracket, Adjusting
19	63634	Lever Assembly
20	9417711	Bolt, Rd. Hd. Short Square Neck 1/4-20 x 1/2
21	63638	Pin, Lever
22	60240	+Nut, Push 1/4
23	63637	Pin
24	63636	Pin, Clevis

Key No.	Part No.	Description
25	63667	Clamp, Cord
26	STD 601103	*Screw, Type "T" Pan Hd. 10-32 x 3/8
27	STD 551210	*Lockwasher, External N10
28	63639	Track
29	448437	Screw, Type "T" Rd. Hd. 10-32 x 5/8
30	63756	Trim Front Arm
31	60256	Key
32	STD 600803	*Screw, Type "T" Pan Hd. 8-32 x 5/16
33	63664	Guard, Switch
34	63663	Switch, Locking (Includes Key No. 30)
35	63624	Arm, Radial
36	63640	Bracket, Support
37	60225	Grommet
38	37818	Relief, Strain
39	60208	+Nut, Push
40	60128	Washer, 17/64 x 5/8 x 1/32
41	63773	Insulation
42	63768	Lead, 8" Red
43	STD 376112	•Capacitor
44	63767	Clamp, Capacitor
45	63467	Cap, Flag Terminal

*Standard Hardware Item – May be Purchased Locally.

+If this part is removed, discard and replace with a new Push Nut.

•Relay and Capacitor must accompany motor when motor is returned for service.

**PARTS LIST FOR CRAFTSMAN 10-INCH RADIAL SAW
MODEL NUMBER 113.19760C**

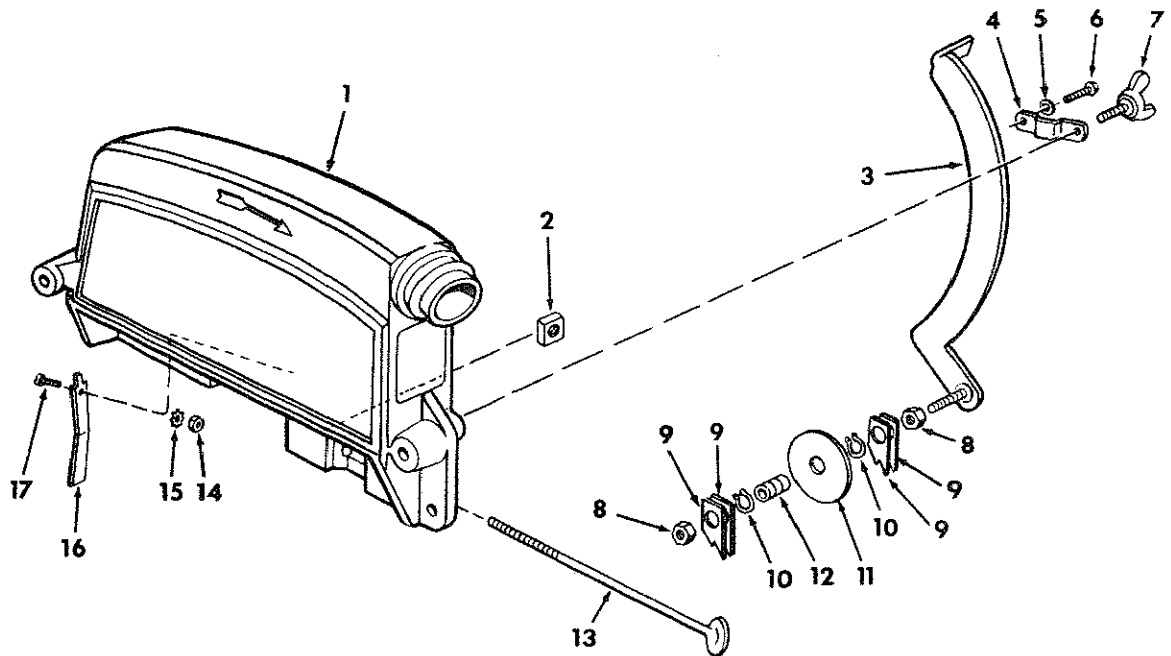


FIGURE 5 — GUARD ASSEMBLY

Key No.	Part No.	Description
1	63757	Guard
2	120399	*Nut, Square, 5/16-18
3	63541	Bar, Anti Kickback
4	63540	Guide, Anti Kickback
5	STD 551010	*Washer, 13/64 x 5/8 x 1/32
6	STD 601103	*Screw, Type "T" Pan Hd. 10-32 x 3/8
7	60219	Screw, Wing 5/16-18 x 1/2
8	STD 541231	*Nut, Hex., 5/16-18

Key No.	Part No.	Description
9	63271	Pawl, Anti Kickback
10	STD 582043	*Ring, Retaining 7/16
11	63270	Spreader
12	63269	Bearing
13	63539	Screw, Guard Clamp
14	STD 541008	*Nut, Hex, 8-32
15	STD 551208	*Lockwasher, External Tooth No. 8
16	63538	Clamp, Guard
17	STD 510805	*Screw, Pan Hd., 8-32 x 1/2

*Standard Hardware Item — May be Purchased Locally.

Sears

Owners Manual

MODEL 113.19760C

**Sears service is available at or through
your Sears Retail Store
or Catalogue Sales Office.**

How to order repair parts

Always mention the Model Number when requesting service or repair parts for your Craftsman Radial Arm Saw.

Order all parts listed in your Owner's Manual at any Simpsons-Sears Ltd. Retail Store or Catalogue Sales Office. If the parts you need are not stocked locally, your order will be sent to a Sears Repair Parts Distribution Centre for prompt handling.

when ordering repair parts always give:

1. The Part Number
2. The Part Description
3. The Model Number 113.19760C
4. The name of the item (Craftsman 10" Radial Arm Saw).

WE SERVICE WHAT WE SELL.

**WE MAKE THIS PLEDGE BECAUSE OUR CONCERN FOR OUR CUSTOMERS DOES NOT
END WITH THE SALE. TO HONOR OUR PLEDGE WE HAVE DEVELOPED A TOP-
NOTCH SERVICE PROGRAM STAFFED BY HIGHLY TRAINED SPECIALISTS. THEIR KNOWLEDGE
OF OUR NEW PRODUCTS IS CONSTANTLY UPGRADED. THEY USE ONLY
PARTS SPECIFICALLY DESIGNED FOR YOUR FINE SEARS PRODUCTS.**