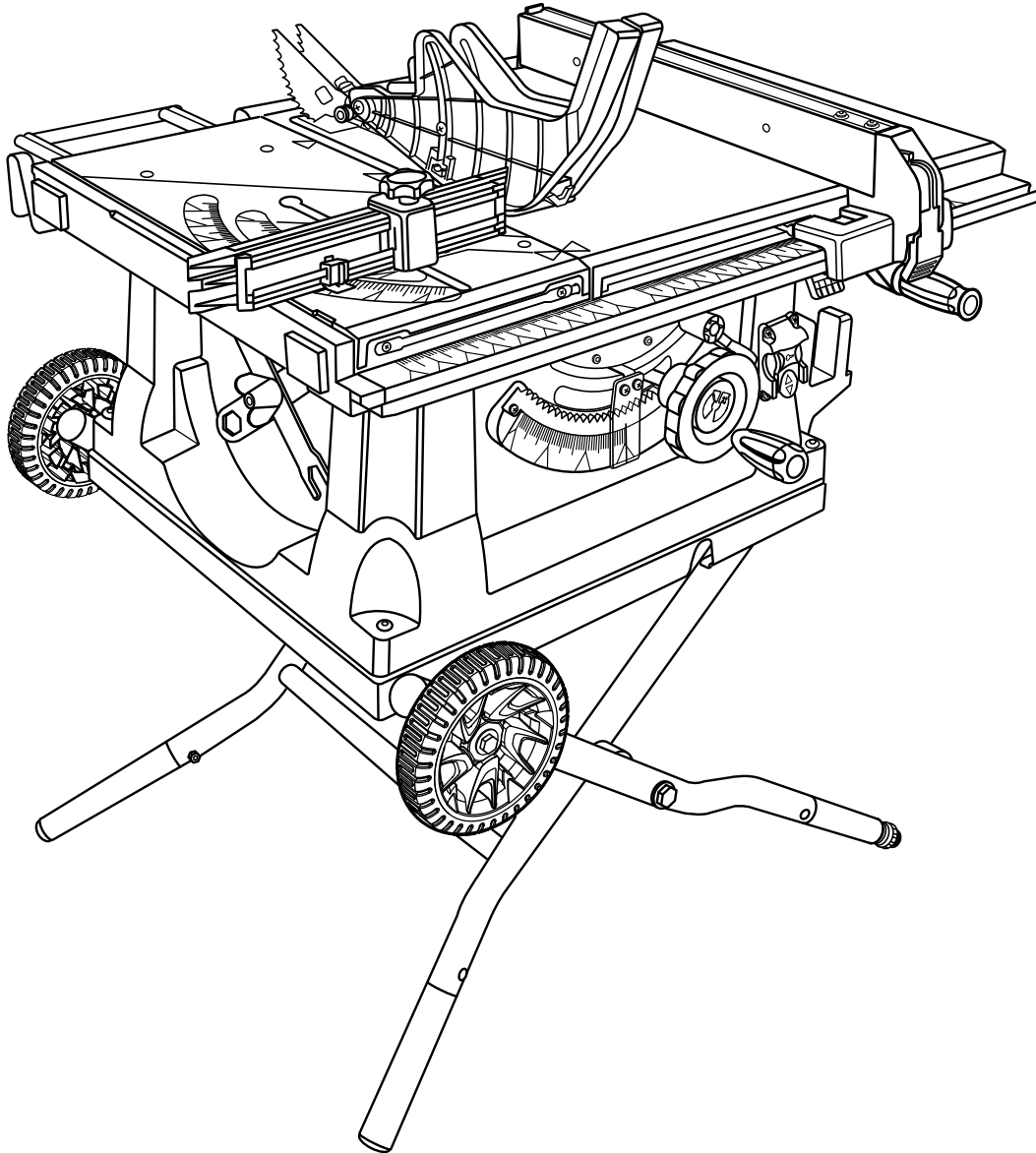




OPERATOR'S MANUAL

10 in. TABLE SAW

RTS31



Your table saw has been engineered and manufactured to our high standard for dependability, ease of operation, and operator safety. When properly cared for, it will give you years of rugged, trouble-free performance.

⚠ WARNING: To reduce the risk of injury, the user must read and understand the operator's manual before using this product.

Thank you for your purchase.

SAVE THIS MANUAL FOR FUTURE REFERENCE

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INTRODUCTION

This tool has many features for making its use more pleasant and enjoyable. Safety, performance, and dependability have been given top priority in the design of this product making it easy to maintain and operate.

WARRANTY

RYOBI® POWER TOOL - LIMITED THREE YEAR WARRANTY AND 90 DAY EXCHANGE POLICY

One World Technologies, Inc., warrants its RYOBI® power tools with the following conditions:

90-DAY EXCHANGE POLICY: During the first 90 days after date of purchase, you may either request service under this warranty or you may exchange any RYOBI® power tool which does not work properly due to defective workmanship or materials by returning the power tool to the dealer from which it was purchased. To receive a replacement power tool or requested warranty service, you must present proof of purchase and return all original equipment packaged with the original product. The replacement power tool will be covered by the limited warranty for the balance of the two year period from the date of the original purchase.

WHAT THIS WARRANTY COVERS: This warranty covers all defects in workmanship or materials in your RYOBI® power tool for a period of three years from the date of purchase. With the exception of batteries, power tool accessories are warranted for ninety (90) days. Batteries are warranted for three years.

HOW TO GET SERVICE: Just return the power tool, properly packaged and postage prepaid, to an Authorized Service Center. You can obtain the location of the Service Center nearest you by contacting a service representative at One World Technologies, Inc., P.O. Box 1207, Anderson, SC 29622-1207, by calling 1-800-525-2579 or by logging on to www.ryobitools.com. When you request warranty service, you must also present proof of purchase documentation, which includes the date of purchase (for example, a bill of sale). We will repair any faulty workmanship, and either repair or replace any defective part, at our option. We will do so without any charge to you. We will complete the work in a reasonable time, but, in any case, within ninety (90) days or less.

WHAT'S NOT COVERED: This warranty applies only to the original purchaser at retail and may not be transferred. This warranty only covers defects arising under normal usage and does not cover any malfunction, failure or defects resulting from misuse, abuse, neglect, alteration, modification or repairs by other than Authorized Service Centers. One World Technologies, Inc. makes no warranties, representations or promises as to the quality or performance of its power tools other than those specifically stated in this warranty.

ADDITIONAL LIMITATIONS: Any implied warranties granted under state law, including warranties of merchantability or fitness for a particular purpose, are limited to three years from the date of purchase. One World Technologies, Inc. is not responsible for direct, indirect, or incidental damages, so the above limitations and exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

GENERAL SAFETY RULES

WARNING:

Read and understand all instructions. Failure to follow all instructions listed below, may result in electric shock, fire and/or serious personal injury.

READ ALL INSTRUCTIONS

- **KNOW YOUR POWER TOOL.** Read the operator's manual carefully. Learn the saw's applications and limitations as well as the specific potential hazards related to this tool.
- **GUARD AGAINST ELECTRICAL SHOCK BY PREVENTING BODY CONTACT WITH GROUNDED SURFACES.** For example, pipes, radiators, ranges, refrigerator enclosures.
- **KEEP GUARDS IN PLACE** and in good working order.
- **REMOVE ADJUSTING KEYS AND WRENCHES.** Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
- **KEEP WORK AREA CLEAN.** Cluttered areas and benches invite accidents. **DO NOT** leave tools or pieces of wood on the saw while it is in operation.
- **DO NOT USE IN DANGEROUS ENVIRONMENTS.** Do not use power tools in damp or wet locations or expose to rain. Keep the work area well lit.
- **KEEP CHILDREN AND VISITORS AWAY.** All visitors should wear safety glasses and be kept a safe distance from work area. Do not let visitors contact tool or extension cord while operating.
- **MAKE WORKSHOP CHILDPROOF** with padlocks and master switches, or by removing starter keys.
- **DON'T FORCE TOOL.** It will do the job better and safer at the feed rate for which it was designed.
- **USE RIGHT TOOL.** Don't force the tool or attachment to do a job it was not designed for. Don't use it for a purpose not intended.
- **USE THE PROPER EXTENSION CORD.** Make sure your extension cord is in good condition. Use only a cord heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. A wire gauge size (A.W.G.) of at least **14** is recommended for an extension cord 25 feet or less in length. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.
- **DRESS PROPERLY.** Do not wear loose clothing, gloves, neckties, or jewelry. They can get caught and draw you into moving parts. Rubber gloves and nonskid footwear are recommended when working outdoors. Also wear protective hair covering to contain long hair.
- **ALWAYS WEAR SAFETY GLASSES WITH SIDE SHIELDS.** Everyday eyeglasses have only impact-resistant lenses, they are **NOT** safety glasses.
- **SECURE WORK.** Use clamps or a vise to hold work when practical. It's safer than using your hand and frees both hands to operate tool.
- **DON'T OVERREACH.** Keep proper footing and balance at all times.
- **MAINTAIN TOOLS WITH CARE.** Keep tools sharp and clean for better and safer performance. Follow instructions for lubricating and changing accessories.
- **DISCONNECT TOOLS.** When not in use, before servicing, or when changing attachments, blades, bits, cutters, etc., all tools should be disconnected.
- **AVOID ACCIDENTAL STARTING.** Be sure switch is off when plugging in any tool.
- **USE RECOMMENDED ACCESSORIES.** Consult the operator's manual for recommended accessories. The use of improper accessories may risk injury.
- **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.
- **CHECK DAMAGED PARTS.** Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine 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 must be properly repaired or replaced by an authorized service center to avoid risk of personal injury.
- **USE THE RIGHT DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of blade or cutter only.
- **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN THE POWER OFF.** Don't leave tool until it comes to a complete stop.
- **PROTECT YOUR LUNGS.** Wear a face or dust mask if the cutting operation is dusty.
- **PROTECT YOUR HEARING.** Wear hearing protection during extended periods of operation.
- **DO NOT ABUSE CORD.** Never yank cord to disconnect from receptacle. Keep cord away from heat, oil, and sharp edges.
- **USE OUTDOOR EXTENSION CORDS.** When tool is used outdoors, use only extension cords with approved ground connection that are intended for use outdoors and so marked.
- **ALWAYS KEEP THE BLADE GUARD AND SPREADER (SPLITTER) IN PLACE** and in working order.
- **KEEP BLADES CLEAN, SHARP, AND WITH SUFFICIENT SET.** Sharp blades minimize stalling and kickback.
- **KEEP HANDS AWAY FROM CUTTING AREA.** Keep hands away from blades. Do not reach underneath

GENERAL SAFETY RULES

work or around or over the blade while blade is rotating. Do not attempt to remove cut material when blade is moving.

- **BLADE COASTS AFTER BEING TURNED OFF.**
- **NEVER USE IN AN EXPLOSIVE ATMOSPHERE.** Normal sparking of the motor could ignite fumes.
- **INSPECT TOOL CORDS PERIODICALLY.** If damaged, have repaired by a qualified service technician at an authorized service facility. The conductor with insulation having an outer surface that is green with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal. Repair or replace a damaged or worn cord immediately. Stay constantly aware of cord location and keep it well away from the rotating blade.
- **INSPECT EXTENSION CORDS PERIODICALLY** and replace if damaged.
- **GROUND ALL TOOLS.** If tool is equipped with three-prong plug, it should be plugged into a three-hole electrical receptacle.
- **CHECK WITH A QUALIFIED ELECTRICIAN** or service personnel if the grounding instructions are not completely understood or if in doubt as to whether the tool is properly grounded.
- **USE ONLY CORRECT ELECTRICAL DEVICES:** 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
- **DO NOT MODIFY** the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.
- **KEEP TOOL DRY, CLEAN, AND FREE FROM OIL AND GREASE.** Always use a clean cloth when cleaning. Never

use brake fluids, gasoline, petroleum-based products, or any solvents to clean tool.

- **STAY ALERT AND EXERCISE CONTROL.** Watch what you are doing and use common sense. Do not operate tool when you are tired. Do not rush.
- **DO NOT USE TOOL IF SWITCH DOES NOT TURN IT ON AND OFF.** Have defective switches replaced by an authorized service center.
- **USE ONLY CORRECT BLADES.** Do not use blades with incorrect size holes. Never use blade washers or blade bolts that are defective or incorrect. The maximum blade capacity of your saw is 10 in. (254 mm).
- **BEFORE MAKING A CUT, BE SURE ALL ADJUSTMENTS ARE SECURE.**
- **BE SURE BLADE PATH IS FREE OF NAILS.** Inspect for and remove all nails from lumber before cutting.
- **NEVER TOUCH BLADE** or other moving parts during use.
- **NEVER START A TOOL WHEN ANY ROTATING COMPONENT IS IN CONTACT WITH THE WORKPIECE.**
- **DO NOT OPERATE A TOOL WHILE UNDER THE INFLUENCE OF DRUGS, ALCOHOL, OR ANY MEDICATION.**
- **WHEN SERVICING** use only identical replacement parts. Use of any other parts may create a hazard or cause product damage.
- **USE ONLY RECOMMENDED ACCESSORIES** listed in this manual or addendums. Use of accessories that are not listed may cause the risk of personal injury. Instructions for safe use of accessories are included with the accessory.
- **DOUBLE CHECK ALL SETUPS.** Make sure blade is tight and not making contact with saw or workpiece before connecting to power supply.

SPECIFIC SAFETY RULES




- **FIRMLY BOLT THE SAW TO A WORK BENCH OR LEG STAND** at approximately hip height.
- **NEVER OPERATE THE SAW ON THE FLOOR.**
- **GUARD AGAINST KICKBACK.** Kickback occurs when the blade stalls rapidly and workpiece is driven back towards the operator. It can pull your hand into the blade resulting in serious personal injury. Stay out of blade path and turn switch off immediately if blade binds or stalls.
- **USE RIP FENCE.** Always use a fence or straight edge guide when ripping.
- **SUPPORT LARGE PANELS.** To minimize risk of blade pinching and kickback, always support large panels.
- **REMOVE ALL FENCES AND AUXILIARY TABLES** before transporting saw. Failure to do so can result in an accident causing possible serious personal injury.
- **ALWAYS USE BLADE GUARD, RIVING KNIFE, AND ANTI-KICKBACK PAWLS** on all "through-sawing" operations. Through-sawing operations are those in which the blade cuts completely through the workpiece as in ripping or cross cutting. Keep the blade guard down, the anti-kickback pawls down, and the riving knife in place.
- **ALWAYS SECURE WORK** firmly against the rip fence or miter fence. **NEVER** use the rip fence during the same operation as the miter fence.
- **WHEN MAKING NON-THROUGH RIP CUTS,** always use a push stick, push block, and/or featherboard so your hands do not come within 3 in. of the saw blade.
- **WHEN RIPPING NARROW STOCK,** always use a push stick, push block, or featherboard.

SPECIFIC SAFETY RULES








- **NEVER** perform any operation “freehand” which means using only your hands to support or guide the workpiece. Always use either the rip fence or miter fence to position and guide the work.
- **NEVER** stand or have any part of your body in line with the path of the saw blade.
- **NEVER** reach behind, over, or within three inches of the blade or cutter with either hand for any reason.
- **MOVE THE RIP FENCE** out of the way when cross cutting.
- **DO NOT USE THE MITER FENCE AND RIP FENCE** during the same operation.
- **NEVER** use rip fence as cutoff gauge when cross cutting.
- **NEVER** attempt to free a stalled saw blade without first turning the saw **OFF** and disconnecting the saw from the power source.
- **PROVIDE ADEQUATE SUPPORT** to the rear and sides of the saw table for wide or long work pieces.
- **AVOID KICKBACKS** (work thrown back toward you) by:
 - a) Keeping blade sharp.
 - b) Keeping rip fence parallel to the saw blade.
 - c) Keeping riving knife, anti-kickback pawls, and blade guard in place and operating.
 - d) Not releasing the work before it is pushed all the way past the saw blade using a push stick.
 - e) Not ripping work that is twisted or warped or does not have a straight edge to guide along the fence.
- **IF THE POWER SUPPLY CORD IS DAMAGED**, it must be replaced only by the manufacturer or by an authorized service center to avoid risk.
- **AVOID AWKWARD OPERATIONS AND HAND POSITIONS** where a sudden slip could cause your hand to move into the cutting tool.
- **USE ONLY RECOMMENDED ACCESSORIES** listed in this manual or addendums. Use of accessories that are not listed may cause the risk of personal injury. Instructions for safe use of accessories are included with the accessory.
- **MAKE SURE THE WORK AREA HAS AMPLE LIGHTING** to see the work and that no obstructions will interfere with safe operation **BEFORE** performing any work using the table saw.
- **ALWAYS TURN OFF SAW** before disconnecting it, to avoid accidental starting when reconnecting to power supply.
- **ONLY USE BLADES** within the thickness range stamped on the spreader/riving knife.
- **THIS TOOL** should have the following markings:
 - a) Wear eye protection.
 - b) Use saw blade guard and riving knife for every operation for which it can be used, including all through sawing.
 - c) Keep hands out of the line of saw blade.
 - d) Use a push stick when required.
 - e) Pay particular attention to instructions on reducing risk of kickback.
 - f) Do not perform any operation freehand.
 - g) Never reach around or over the saw blade.
- **NEVER CUT MORE THAN ONE PIECE OF MATERIAL AT A TIME.**
- **SAVE THESE INSTRUCTIONS.** Refer to them frequently and use to instruct other users. If you loan someone this tool, loan them these instructions also.

SYMBOLS

The following signal words and meanings are intended to explain the levels of risk associated with this product.

SYMBOL	SIGNAL	MEANING
	DANGER:	Indicates an imminently hazardous situation, which, if not avoided, will result in death or serious injury.
	WARNING:	Indicates a potentially hazardous situation, which, if not avoided, could result in death or serious injury.
	CAUTION:	Indicates a potentially hazardous situation, which, if not avoided, may result in minor or moderate injury.
	NOTICE:	Without Safety Alert Symbol) Indicates important information not related to an injury hazard, such as a situation that may result in property damage.

Some of the following symbols may be used on this tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

SYMBOL	NAME	DESIGNATION/EXPLANATION
	Safety Alert	Indicates a potential personal injury hazard.
	Read Operator's Manual	To reduce the risk of injury, user must read and understand operator's manual before using this product.
	Eye Protection	Always wear eye protection with side shields marked to comply with ANSI Z87.1.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	Wet Conditions Alert	Do not expose to rain or use in damp locations.
	Pinch Point	To reduce the risk of injury or damage, avoid contact with any pinch point.
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
min	Minutes	Time
~	Alternating Current	Type of current
n ₀	No Load Speed	Rotational speed, at no load
	Class II Construction	Double-insulated construction
.../min	Per Minute	Revolutions, strokes, surface speed, orbits, etc., per minute

ELECTRICAL

EXTENSION CORDS

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug. When using a power tool at a considerable distance from the power source, use an extension cord heavy enough to carry the current that the tool will draw. An undersized extension cord will cause a drop in line voltage, resulting in a loss of power and causing the motor to overheat. Use the chart provided below to determine the minimum wire size required in an extension cord. Only round jacketed cords listed by Underwriter's Laboratories (UL) should be used.

**Ampere rating (on tool faceplate)

Cord Length	Wire Size (A.W.G.)					
	0-2.0	2.1-3.4	3.5-5.0	5.1-7.0	7.1-12.0	12.1-16.0
25'	16	16	16	16	14	14
50'	16	16	16	14	14	12
100'	16	16	14	12	10	—

**Used on 12 gauge - 20 amp circuit.

NOTE: AWG = American Wire Gauge

When working with the tool outdoors, use an extension cord that is designed for outside use. This is indicated by the letters "W-A" or "W" on the cord's jacket.

Before using an extension cord, inspect it for loose or exposed wires and cut or worn insulation.

WARNING:

Keep the extension cord clear of the working area. Position the cord so that it will not get caught on lumber, tools or other obstructions while you are working with a power tool. Failure to do so can result in serious personal injury.

WARNING:

Check extension cords before each use. If damaged replace immediately. Never use product with a damaged cord since touching the damaged area could cause electrical shock resulting in serious injury.

ELECTRICAL CONNECTION

This product is powered by a precision built electric motor. It should be connected to a **power supply that is 120 V, AC only (normal household current), 60 Hz**. Do not operate this product on direct current (DC). A substantial voltage drop will cause a loss of power and the motor will overheat. If the saw does not operate when plugged into an outlet, double check the power supply.

SPEED AND WIRING

The no-load speed of this tool is approximately 5,000 rpm. This speed is not constant and decreases under a load or with lower voltage. For voltage, the wiring in a shop is as important as the motor's horsepower rating. A line intended only for lights cannot properly carry a power tool motor. Wire that is heavy enough for a short distance will be too light for a greater distance. A line that can support one power tool may not be able to support two or three tools.

GROUNDING INSTRUCTIONS

This product must be grounded. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.

WARNING:

Improper installation of the grounding plug can result in a risk of electric shock. When repair or replacement of the cord is required, do not connect the grounding wire to either flat blade terminal. The wire with insulation having an outer surface that is green with or without yellow stripes is the grounding wire.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Repair or replace a damaged or worn cord immediately.

This product is for use on a nominal 120 volt circuit and has a grounding plug similar to the plug illustrated in figure 1. Only connect the product to an outlet having the same configuration as the plug. Do not use an adapter with this product.

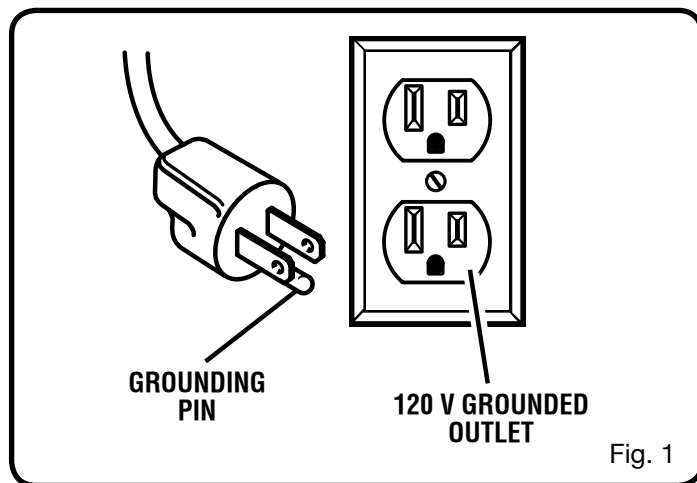


Fig. 1

GLOSSARY OF TERMS

Anti-Kickback Pawls (radial arm and table saws)

A device which, when properly installed and maintained, is designed to stop the workpiece from being kicked back toward the front of the saw during a ripping operation.

Arbor

The shaft on which a blade or cutting tool is mounted.

Bevel Cut

A cutting operation made with the blade at any angle other than 90° to the table surface.

Chamfer

A cut removing a wedge from a block so the end (or part of the end) is angled rather than at 90°.

Compound Cut

A cross cut made with both a miter and a bevel angle.

Cross Cut

A cutting or shaping operation made across the grain or the width of the workpiece.

Cutter Head (planers and jointer planers)

A rotating cutterhead with adjustable blades or knives. The blades or knives remove material from the workpiece.

Dado Cut (table saws and compound sliding miter saws)

A non-through cut which produces a square, three-sided notch or trough in the workpiece.

Featherboard (table saws)

A device used to help control the workpiece by guiding it securely against the table or fence during any ripping operation.

FPM or SPM

Feet per minute (or strokes per minute), used in reference to blade movement.

Freehand

Performing a cut without the workpiece being guided by a fence, miter fence, or other aids.

Gum

A sticky, sap-based residue from wood products.

Heel

Alignment of the blade to the fence.

Kerf

The material removed by the blade in a through cut or the slot produced by the blade in a non-through or partial cut.

Kickback

A hazard that can occur when the blade binds or stalls, throwing the workpiece in the direction of the spinning blade.

Miter Cut

A cutting operation made with the workpiece at any angle to the blade other than 90°.

Non-Through Cuts (table saws and compound sliding miter saws)

Any cutting operation where the blade does not extend completely through the thickness of the workpiece.

Push Blocks (jointer planers)

Device used to feed the workpiece over the jointer planer cutterhead during any operation. This aid helps keep the operator's hands well away from the cutterhead.

Push Blocks and Push Sticks (table saws)

Devices used to feed the workpiece through the saw blade during cutting operations. A push stick (not a push block) should be used for narrow ripping operations. These aids help keep the operator's hands well away from the blade.

Pilot Hole (drill presses and scroll saws)

A small hole drilled in a workpiece that serves as a guide for drilling large holes accurately or for insertion of a scroll saw blade.

Rabbet

A non-through cut positioned on the end or edge of the workpiece which produces a square, two-sided notch or trough in the workpiece.

Resaw (table saws and band saws)

A cutting operation to reduce the thickness of the workpiece to make thinner pieces.

Resin

A sticky, sap-based substance that has hardened.

Revolutions Per Minute (RPM)

The number of turns completed by a spinning object in one minute.

Ripping or Rip Cut (table saws)

A cutting operation along the length of the workpiece and typically in the direction of the grain.

Living Knife/Spreader/Splitter (table saws)

A metal piece, slightly thinner than the blade, which helps keep the kerf open and also helps to prevent kickback.

Saw Blade Path

The area over, under, behind, or in front of the blade. As it applies to the workpiece, that area which will be or has been cut by the blade.

Snipe (planers)

Depression made at either end of a workpiece by cutter blades when the workpiece is not properly supported.

Through Sawing

Any cutting operation where the blade extends completely through the thickness of the workpiece.

Workpiece or Material

The item on which the operation is being done.

Worktable

Surface where the workpiece rests while performing a cutting, drilling, planing, or sanding operation.

FEATURES

PRODUCT SPECIFICATIONS

Blade Arbor 5/8 in.
 Blade Diameter 10 in.
 Blade Tilt 0° - 45°
 Rating 120 V, AC only, 60 Hz

Input 15 Amps
 No Load Speed 5,000 r/min. (RPM)
 Cutting Depth at 0°: 3-1/2 in.
 Cutting Depth at 45°: 2-1/2 in.

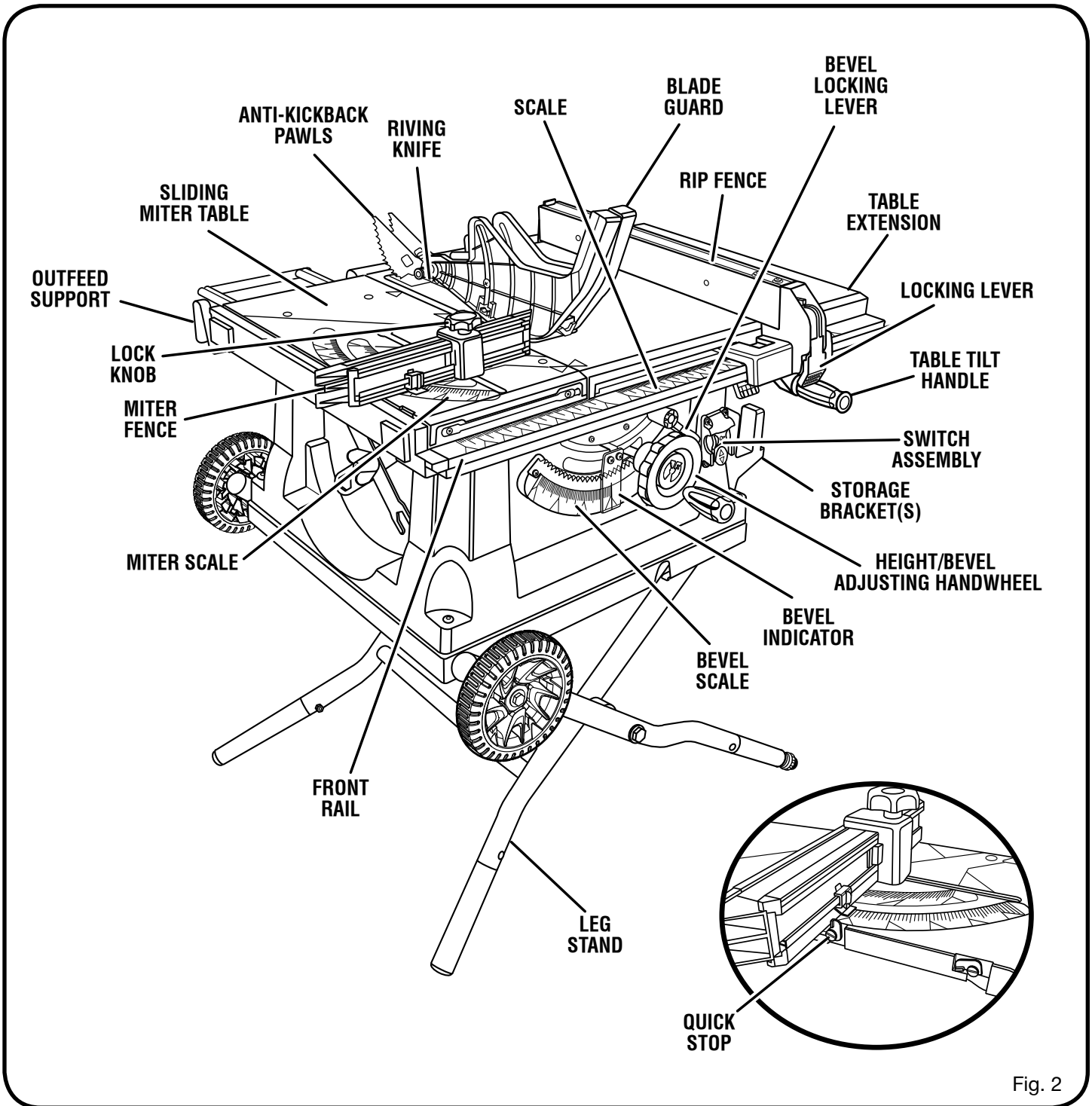


Fig. 2

FEATURES

KNOW YOUR TABLE SAW

See Figure 2.

The safe use of this product requires an understanding of the information on the tool and in this operator's manual as well as a knowledge of the project you are attempting. Before use of this product, familiarize yourself with all operating features and safety rules.

ANTI-KICKBACK PAWLS - Kickback is a hazard in which the workpiece is thrown back toward the operator. The teeth on the anti-kickback pawls point away from the workpiece. If the workpiece should be pulled back toward the operator, the teeth dig into the wood to help prevent or reduce the possibility of kickback.

BEVEL SCALE - The easy-to-read scale on the front of the cabinet shows the exact blade angle.

BLADE - This saw is provided with a 10 in. carbide-tipped blade. The blade is raised and lowered with the height/bevel adjusting handwheel. Bevel angles are locked with the bevel locking lever.

WARNING:

Do not use blades rated less than the speed of this tool. Failure to heed this warning could result in personal injury.

BLADE GUARD - Always keep the blade guard down over the saw blade for through-sawing cuts.

BEVEL LOCKING LEVER - This lever, placed just under the saw table surface on the front of the cabinet, locks the angle setting of the blade.

HEIGHT/BEVEL ADJUSTING HANDWHEEL - Located on the front of the cabinet, use this handwheel to lower and raise the blade for height adjustments or blade replacement. This handwheel also makes the adjustment for bevel angles.

LEG STAND - Attached to the table saw base, the leg stand opens and closes with ease making transportation simple.

MITER FENCE WITH LOCK KNOB - The fence attaches to the sliding miter table and can be angled for miter and compound miter cuts as well as straight cuts such as cross cuts and bevel cross cuts. With the locator pin in place, this knob locks the miter fence to the sliding miter table at the desired cutting angle.

RIP FENCE - A sturdy metal fence guides the workpiece and is secured with the locking lever. Grooves run along the top and sides of the rip fence for use with optional clamps and accessories.

RIVING KNIFE - A removable metal piece of the blade guard assembly, slightly thinner than the saw blade, which helps keep the kerf open and prevent kickback. When in the through sawing, or "up" position, it is higher than the saw blade. When in the non-through sawing, or "down" position, it is below the saw blade teeth.

SCALE - Located on the front rail, the easy-to-read scale provides precise measurements for rip cuts.

SLIDING MITER TABLE - The sliding miter table moves allowing the operator to slide the workpiece across the saw table.

SLIDING TABLE EXTENSION - Located on the right side of the saw table, this table extension gives the operator additional support when cutting wide workpieces.

SWITCH ASSEMBLY - This saw has an easy access power switch located below the front rail. To lock the switch in the **OFF** position, remove the switch key from the switch. Place the key in a location that is inaccessible to children and others not qualified to use the tool.

FEATURES

OPERATING COMPONENTS

The upper portion of the blade projects up through the table and is surrounded by an insert called the throat plate. The height of the blade is set with a handwheel on the front of the cabinet. Detailed instructions are provided in the *Operation* section of this manual for the basic cuts: cross cuts, miter cuts, bevel cuts, and compound cuts.

The sliding miter table assembly is used for cross cutting operations. The miter fence is easily adjusted to cut wood at an angle by loosening the adjusting clamp, setting the fence to the miter scale, and retightening the clamp. With the miter fence removed, the miter table offers additional support for other operations such as ripping.

The rip fence is used to position work for lengthwise cuts. A scale on the front rail shows the distance between the rip fence and the blade.

It is very important to use the blade guard assembly for all through-sawing operations. The blade guard assembly includes: riving knife, anti-kickback pawls, and plastic blade guard.

SWITCH ASSEMBLY

See Figure 3.

This saw is equipped with a switch assembly that has a built-in locking feature. This feature is intended to prevent unauthorized and possible hazardous use by children and others.

TO TURN YOUR SAW ON:

- With the switch key inserted into the switch, lift the switch to turn **ON (I)**.

TO TURN YOUR SAW OFF:

- Press the switch down to turn **OFF (O)**.

TO LOCK YOUR SAW:

- Press the switch down.
- Remove the switch key from the switch and store in a safe, secure location.

⚠ WARNING:

Always remove the switch key when the tool is not in use and keep it in a safe place. In the event of a power failure, turn the switch **OFF (O)** and remove the key. This action will prevent the tool from accidentally starting when power returns.

⚠ WARNING:

ALWAYS make sure your workpiece is not in contact with the blade before operating the switch to start the tool. Failure to heed this warning may cause the workpiece to be kicked back toward the operator and result in serious personal injury.

⚠ WARNING:

To reduce the risk of accidental starting, ALWAYS make sure the switch is in the **OFF (O)** position before plugging tool into the power source.

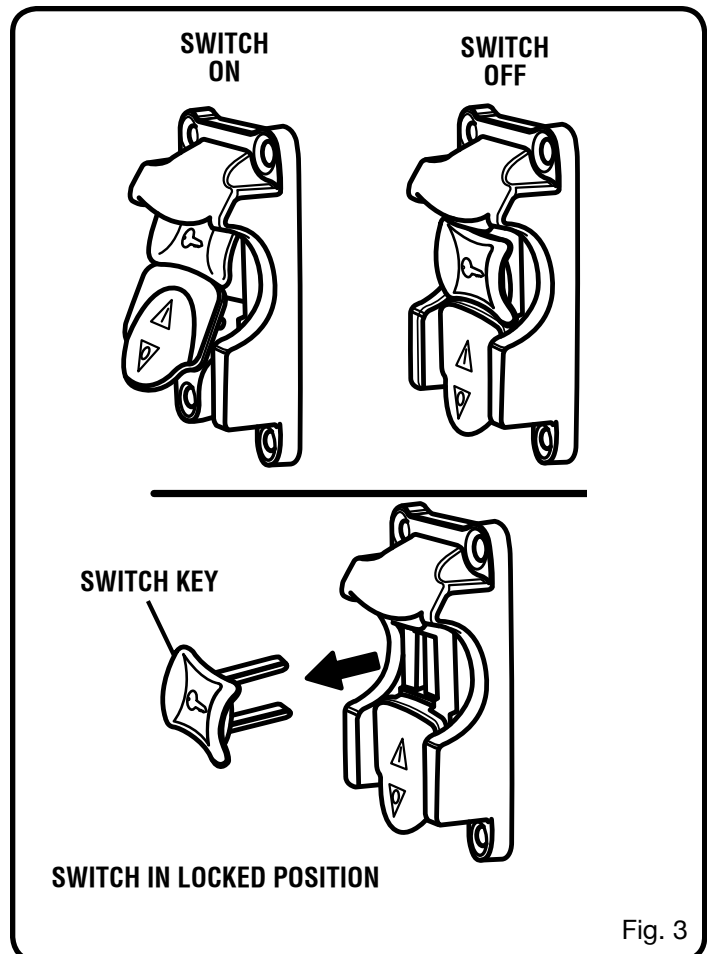


Fig. 3

FEATURES

BLADES

For maximum performance, it is recommended that you use the 10 in. carbide-tipped combination blade provided with your saw. Additional blade styles of the same high quality are available for specific operations such as ripping. Your local dealer can provide you with complete information.

Blade kerf width must be within the limits stamped on the riving knife.

WARNING:

Do not use blades rated less than the speed of this tool. Failure to heed this warning could result in personal injury.

TOOLS NEEDED

The following tools (not included) are needed for assembly and making adjustments:

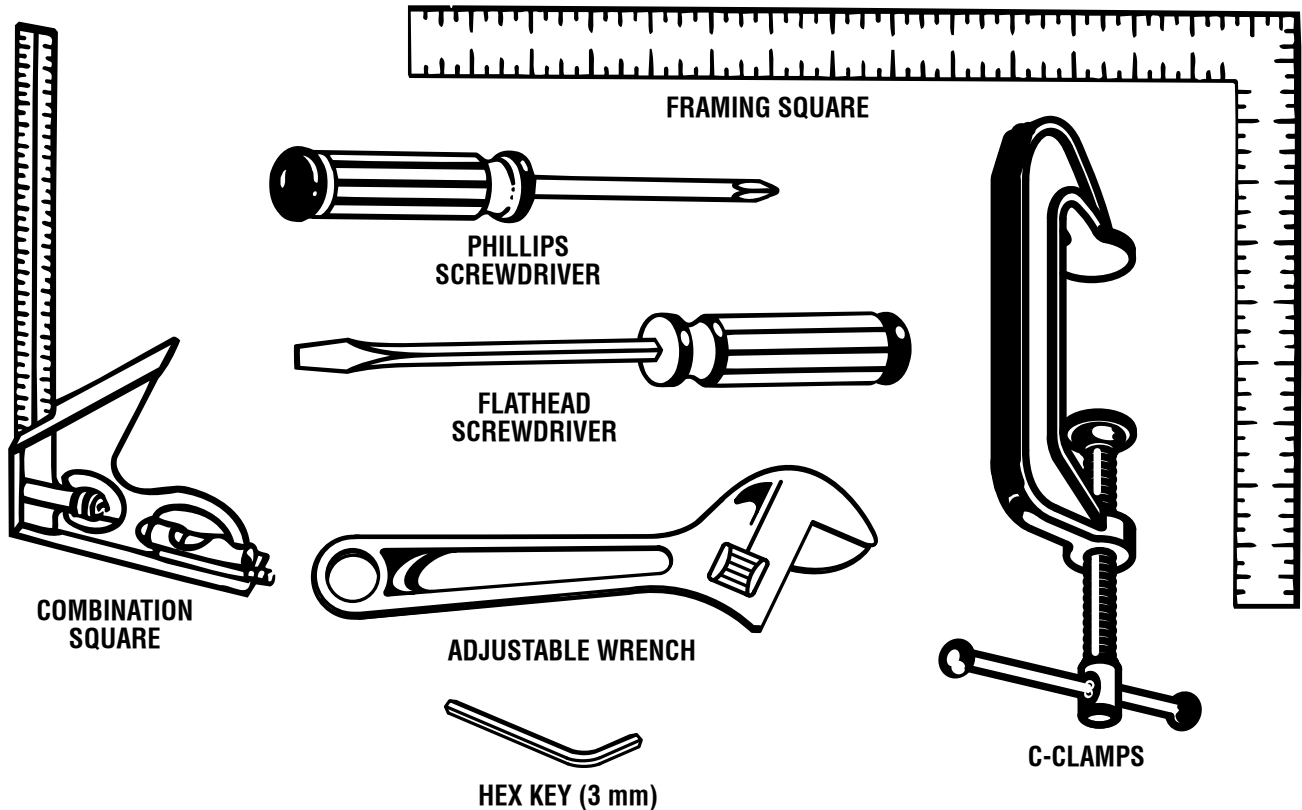


Fig. 4

LOOSE PARTS

The following items are included with your table saw:

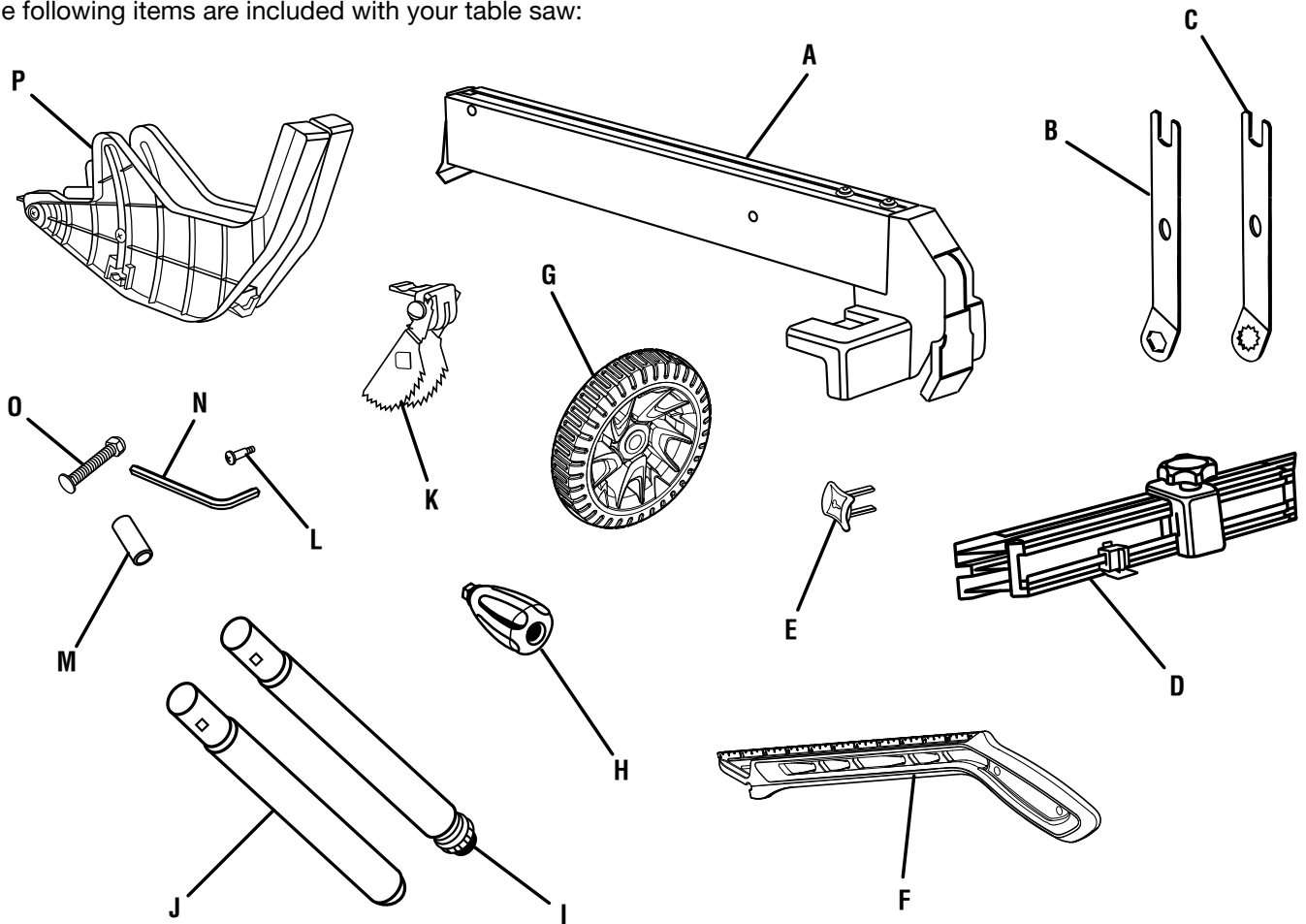


Fig. 5

A. Rip Fence	1
B. Large Blade Wrench.....	1
C. Small Blade Wrench.....	1
D. Miter Fence with Lock Knob	1
E. Switch Key	1
F. Push Stick	1
G. Wheels.....	2
H. Handle Assembly	1
I. Leg Stand Tube w/leveling foot.....	3
J. Leg Stand Tube	1
K. Anti-Kickback Pawls	1
L. Screw	2
M. Sleeve.....	2
N. Hex Key.....	1
O. Carriage bolt and nut	4
P. Blade Guard	1

ASSEMBLY

UNPACKING

This product requires assembly.

- Carefully remove the tool and any accessories from the box. Place it on a level work surface.

NOTE: This tool is heavy. To avoid back injury, keep your knees bent and lift with your legs, not your back, and get help when needed.

WARNING:

Do not use this product if any parts on the Loose Parts List are already assembled to your product when you unpack it. Parts on this list are not assembled to the product by the manufacturer and require customer installation. Use of a product that may have been improperly assembled could result in serious personal injury.

- Inspect the tool carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected the tool, identified all loose parts, and satisfactorily operated the tool.

NOTE: A box containing some of the Loose Parts is inside the saw cabinet. Also, remove the foam blocks from between the saw's housing and motor by beveling the blade (see page 26).

- The saw is factory set for accurate cutting. After assembling it, check for accuracy. If shipping has influenced the settings, refer to specific procedures explained in this manual.
- If any parts are damaged or missing, please call 1-800-525-2579 for assistance.

WARNING:

If any parts are damaged or missing do not operate this product until the parts are replaced. Use of this product with damaged or missing parts could result in serious personal injury.

WARNING:

Do not attempt to modify this tool or create accessories not recommended for use with this tool. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

WARNING:

Do not connect to power supply until assembly is complete. Failure to comply could result in accidental starting and possible serious personal injury.

WARNING:

Never stand directly in line with the blade or allow hands to come closer than 3 in. to the blade. Do not reach over or across the blade. Failure to heed this warning can result in serious personal injury.

WARNING:

To avoid serious personal injury, always make sure the table saw is securely mounted to a workbench or an approved leg stand. NEVER operate the saw on the floor.

MOUNTING HOLES

This tool comes mounted to a leg stand. If you chose to remove the leg stand, the table saw must be mounted to a firm supporting surface such as a workbench. Four bolt holes have been provided in the saw's base for this purpose. Each of the four mounting holes should be bolted securely using 5/16 in. machine bolts, lock washers, and hex nuts (not included). Bolts should be of sufficient length to accommodate the saw base, lock washers, hex nuts, and the thickness of the workbench. Tighten all four bolts securely.

Carefully check the workbench after mounting to make sure that no movement can occur during use. If any tipping, sliding, or walking is noted, secure the workbench to the floor before operating.

TO ATTACH THE WHEEL ASSEMBLY

See Figure 6.

- Locate the bolt screwed through the leg stand and saw cabinet on the left side of the saw.
- Unscrew the bolt then remove bolt, spacers, and flat washers from the saw.
- Place a flat washer on the bolt then slide the bolt/washer into the hole in the center of the wheel.
- Place a second flat washer then small spacer on the bolt.
- Slide the bolt into the leg stand and large spacer.
- Place a sleeve inside the leg stand aligning the sleeve ends with holes in the stand and fixed nut.
- Slide the entire combination into the holes and through the sleeve. Tighten securely.
- Repeat with the second wheel assembly.

ASSEMBLY

TO ATTACH THE LEG

See Figure 7.

NOTE: The leg with the leveling foot should be installed on the front of the saw, right side.

- Stand the table saw on end as shown in figure 7.
- Slide the leg in the leg stand tubes aligning the holes in both tubes.
- Remove the nut from the end of the carriage bolt then insert a carriage bolt into the hole (from the outside toward the inside). Finger tighten using the nut.
- Repeat for remaining legs.

NOTE: Once the leg stand is in an upright position (see page 16) and the saw is level, securely tighten the nuts. Place the saw on level ground and verify the saw's stability before use.

TO SECURE/LEVEL THE SAW

With the leg stand open and the table saw resting on a flat, level surface, the saw should not move or rock from side to side. If the saw rocks from side to side, the leveling foot needs adjusting until the leg stand is balanced.

- Turning clockwise will lower the foot.
- Turning counterclockwise will raise the foot.

TO INSTALL THE HANDLE

See Figure 8.

- Remove the screw from the handle by holding the nut securely and turn the screw counter-clockwise to remove the nut completely.

NOTE: Do not remove the screw from the handle or the washer from the end of the screw.

- Place the nut into the recessed hole on the back of the height/bevel adjusting handwheel and hold in place.
- Slide the handle, screw, and washer into the hole on the height/bevel adjusting handwheel.
- Using a flathead screwdriver, turn the screw clockwise and tighten in place.

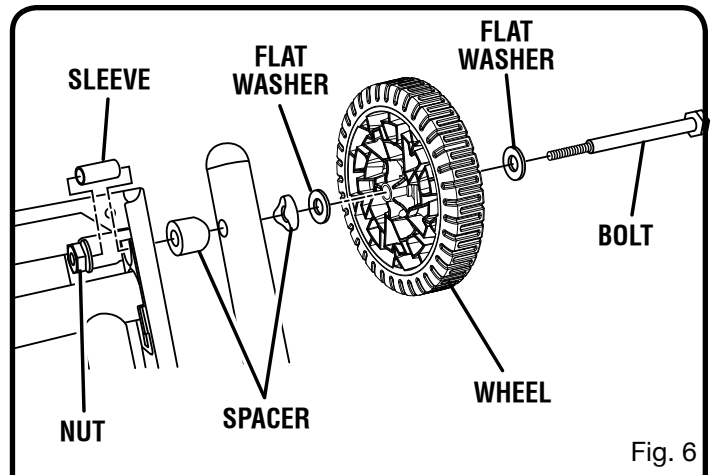


Fig. 6

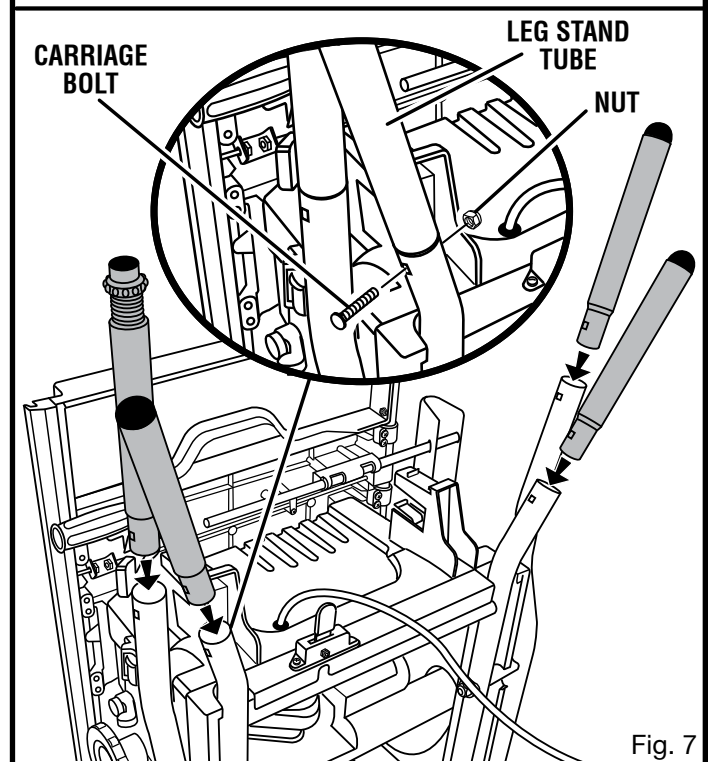


Fig. 7

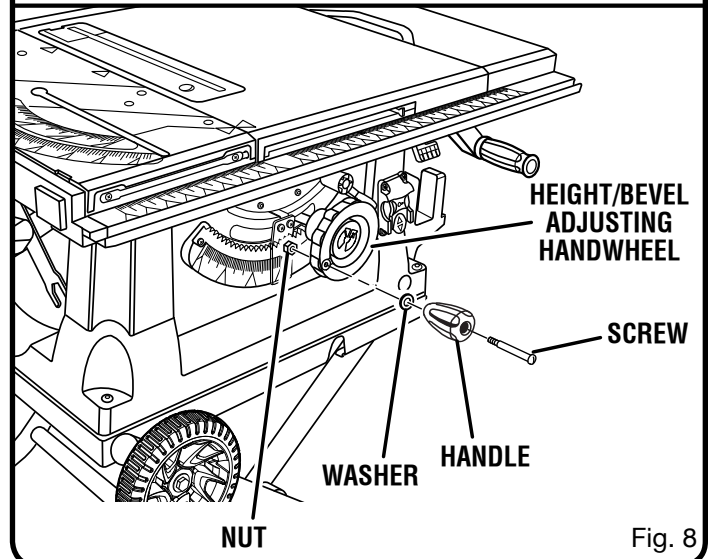


Fig. 8

ASSEMBLY

TO OPEN/CLOSE (SET-UP/TEAR DOWN) THE LEG STAND

See Figure 9.

To open (set-up) the leg stand:

- **Step 1:** With the saw table on end and standing to the side, use your left hand to pull the leg stand latch towards you.
- **Step 2:** Once the leg stand is released from the table saw base, ease the legs of the stand down.
- **Steps 3 and 4:** Grasp the upper leg support below the saw cabinet. Keeping your left hand clear of the leg stand, pull the leg stand up until it locks into place.
- **Step 5:** With your left hand firmly on the table tilt handle, grasp the leg stand with your right hand.
- **Steps 6 and 7:** Push the leg stand towards the ground with your right hand and pull in the same direction with your left hand until the table saw is in an upright position.

To close (tear down) the leg stand:

- **Steps 1 and 2:** Standing to the side of the table saw, grasp the table tilt handle with your left hand. Tilt the table saw to your left and grab the leg.
- **Step 3:** Lower the saw to the floor until it is balanced on end.
- **Step 4:** Using your left hand, release the leg stand latch.
- **Steps 5 and 6:** Once the leg stand is released from the table saw base, ease the legs of the leg stand toward the floor.
- **Step 7:** Lift the lower leg of the leg stand until it locks in place.

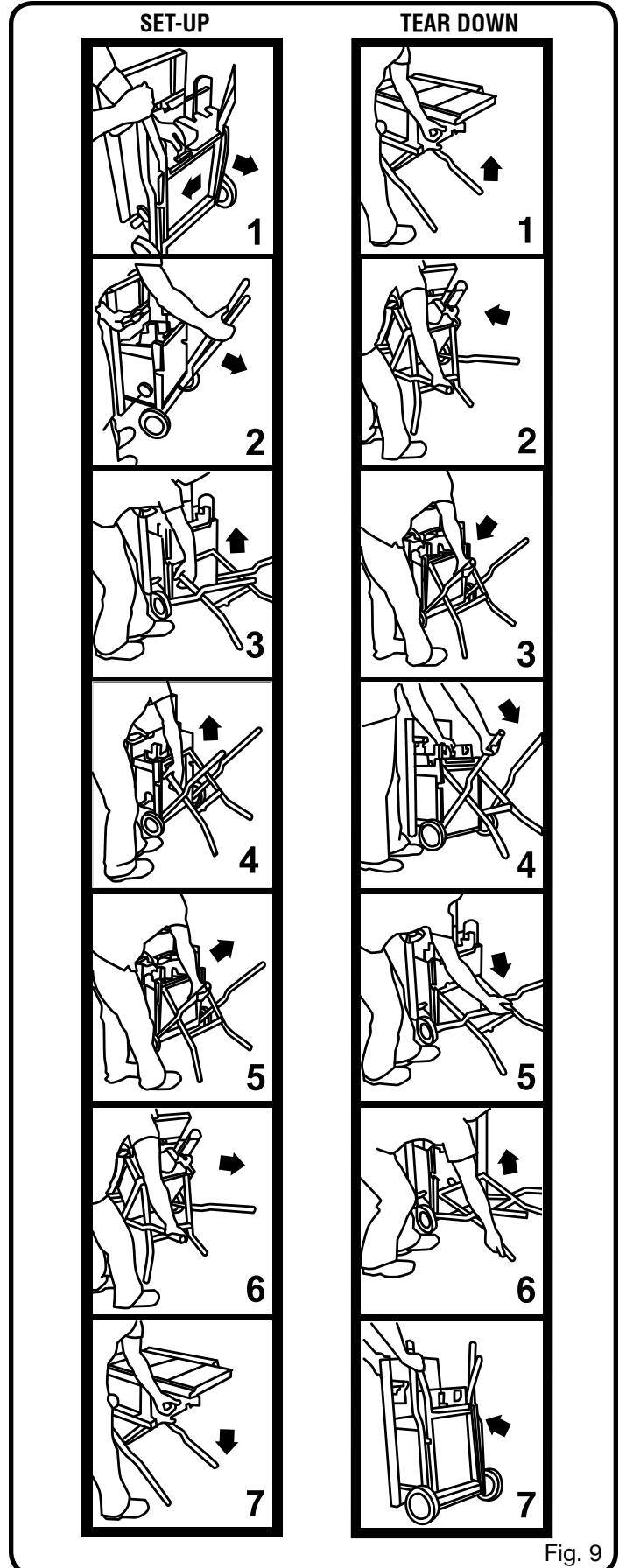


Fig. 9

ASSEMBLY

TO MOVE THE LEG STAND

See Figure 10.

- Holding the leg stand firmly, pull the leg stand toward you until the leg stand and saw are balanced on the wheels.
- Push the saw to the desired location then either open the leg stand for immediate saw operation or store the saw in a dry environment.

TO REMOVE/REPLACE THE THROAT PLATE

See Figure 11.

- Lower the blade by turning the height/bevel adjusting handwheel counterclockwise.
- To remove the throat plate, place your index finger in the hole and lift the front end pulling the throat plate out toward the front of the saw.
- To reinstall the throat plate, first slip the tab into the slot at the back of the saw and then push down to secure in place.

TO INSTALL MITER FENCE

See Figure 12.

WARNING:

Make sure the miter fence does not touch the blade guard before turning on the saw. If anything interferes with the blade guard, do not use this saw. Failure to heed this warning can result in serious personal injury.

- Loosen the lock knob so the bolt has enough clearance to slide into the table slot.
- Mount the miter fence to the miter table by installing the locator pin (below the miter fence) into holes "A" or "B". At the same time, place the attachment bolt in the slot.
- Properly adjust the miter indicator to the scale on the end of the fence opposite the locator pin.
- Retighten the lock knob.

WARNING:

Do not use the miter fence holder if the tabs are not properly installed in the miter fence slots. Failure to heed this warning can result in serious personal injury.

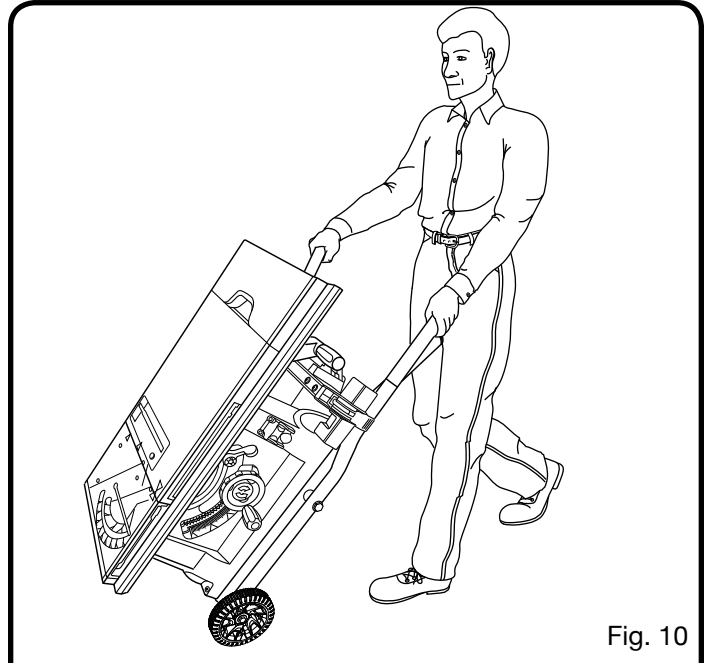


Fig. 10

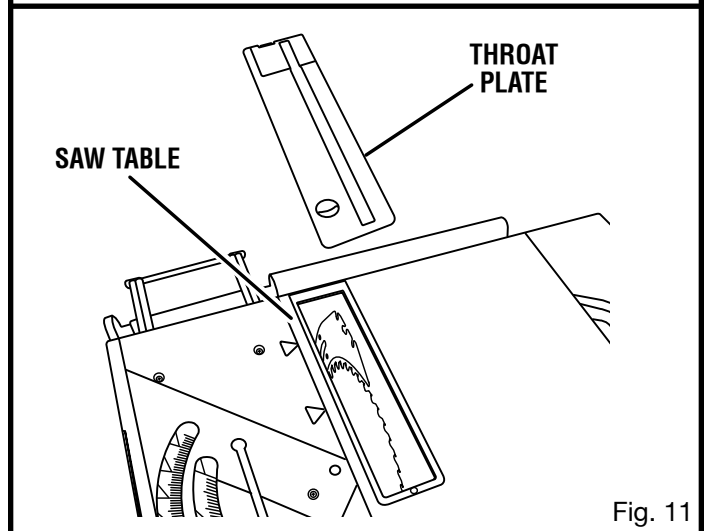


Fig. 11

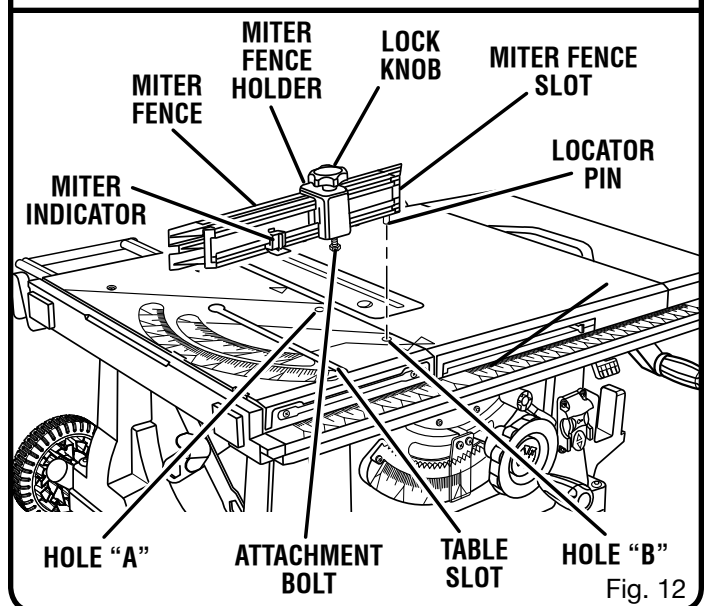


Fig. 12

ASSEMBLY

TO CHANGE RIVING KNIFE POSITIONS

See Figure 13.

This saw is shipped with a riving knife that should be placed in the “down” position for non-through cutting and must be placed in the “up” position for all other cutting operations.

- Unplug the saw.

To place in the “up” position for all through cutting:

- Remove the throat plate.
- Raise the saw blade by turning the height/bevel adjusting handwheel clockwise.
- Unlock the release lever by pulling it up.
- Grasp the riving knife and pull it towards the left side of the saw to release the riving knife from the spring-loaded riving clamp.
- Pull the riving knife up until the internal pins are engaged and the riving knife is above the saw blade.
- Lock the release lever by pushing the lever down.
- Reinstall the throat plate.

To place in riving knife down position for all non-through cutting:

- Remove the throat plate.
- Raise the saw blade by turning the height/bevel adjusting handwheel clockwise.
- Unlock the release lever by pulling it up.
- Grasp the riving knife and pull it towards the left side of the saw to release the riving knife from the spring-loaded riving clamp.
- Push the riving knife down until it is below the saw blade.
- Pull the riving knife up until the internal pins are engaged and the riving knife is above the saw blade.
- Lock the release lever by pushing the lever down.
- Reinstall the throat plate.

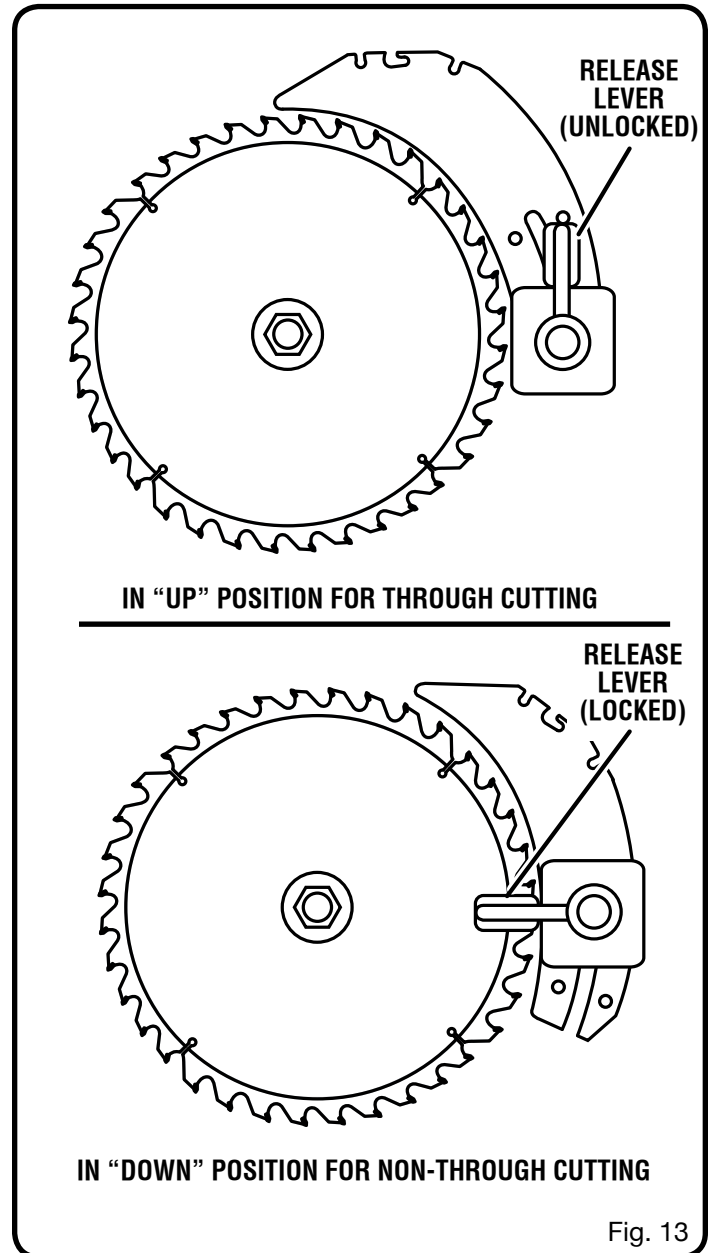
TO CHECK SAW BLADE INSTALLATION

See Figure 14.

NOTICE:

To work properly, the saw blade teeth must point down toward the front of the saw. Failure to do so could cause damage to the saw blade, the saw, or the workpiece.

- Unplug the saw.
- Lower the saw blade and remove the throat plate.
- Make sure the bevel locking lever is securely pushed down, see figure 29. Raise the saw blade to its full height by turning the height/bevel adjusting handwheel clockwise.
- Place riving knife in “up” position.



To loosen the blade:

- Remove the blade wrench from the blade wrench storage area.
- Using blade wrenches, place the flat open end of a blade wrench on the flats on the arbor shaft.
- Insert the closed end of the blade wrench over the blade nut. Holding both wrenches firmly, pull the wrench (left side) forward to the front of the machine.

ASSEMBLY

To tighten the blade:

- Using the blade wrench, place the flat open end into the flats on the arbor shaft.
- Insert the closed end of the blade wrench over the blade nut. Holding both wrenches firmly, push the wrench (left side) to the back of the machine. Make sure the blade nut is securely tightened. Do not overtighten.
- Reinstall the throat plate.
- Check all clearances for free blade rotation.

TO INSTALL THE ANTI-KICKBACK PAWLS AND BLADE GUARD

See Figures 15 - 17.

⚠ WARNING:

Replace dull or damaged anti-kickback pawls. Dull or damaged pawls may not stop a kickback increasing the risk of serious personal injury.

Anti-kickback pawls should only be installed for through cuts.

- Unplug the saw.
- Raise the saw blade by turning the height/bevel adjusting handwheel clockwise.
- Place riving knife in "up" position.
- Reinstall the throat plate.

To install anti-kickback pawls:

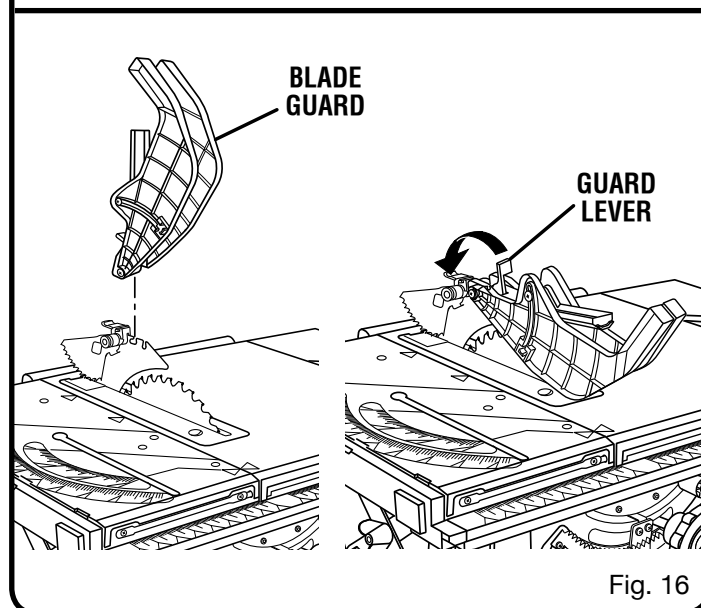
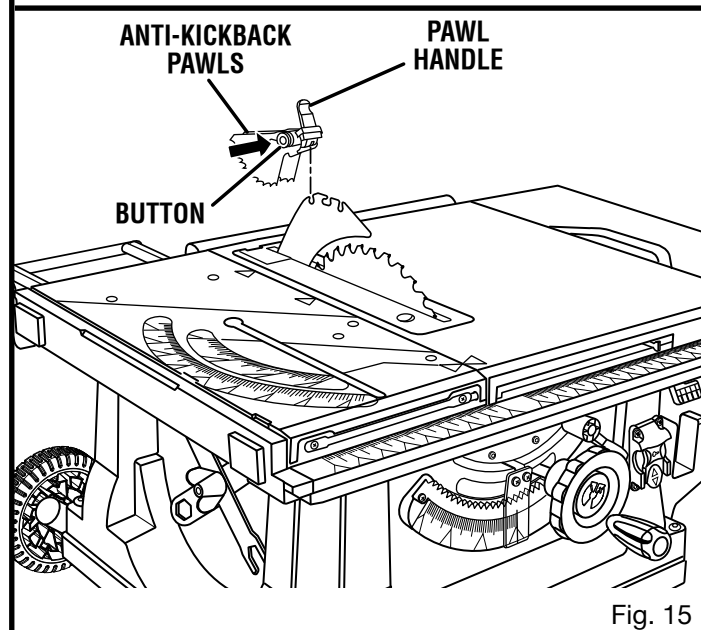
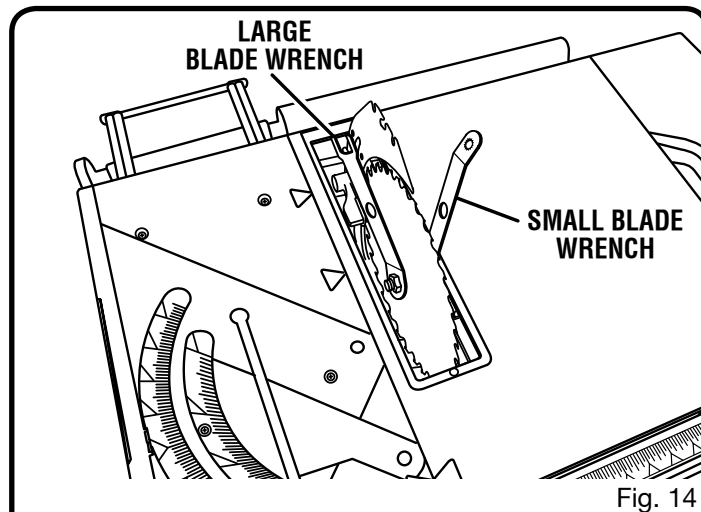
- Press and hold the button on the left side of the anti-kickback pawls.
- Align the slot in the pawls over the rear hole in the riving knife.
- Push the pawl handle down snapping them into place and release the button.

NOTE: Pull on the pawl handle to make sure pawls are securely locked.

To install blade guard:

- Lift the guard lever up to unlock.
- With the front of the blade guard raised, lower the back of the guard into the middle hole of the riving knife. Push the front of the guard down until it is **parallel to the table** (see figure 16). If the blade guard is not parallel to the table, the riving knife is not in the "up" position.
- Lock the guard in place by pushing the guard lever down.

NOTE: Blade alignment can be adjusted for different blade widths. Refer to: **To Check and Align the Riving Knife and Saw Blade**. Check the blade guard assembly for clearances and free movement.



ASSEMBLY

TO CHECK AND ALIGN THE RIVING KNIFE AND SAW BLADE

See Figure 18.

To check alignment of the riving knife:

- Unplug the saw.
- Raise the saw blade by turning the height/bevel adjusting handwheel clockwise.
- Remove the anti-kickback pawls and blade guard assembly. Place a framing square or straight edge against both the saw blade and the riving knife.

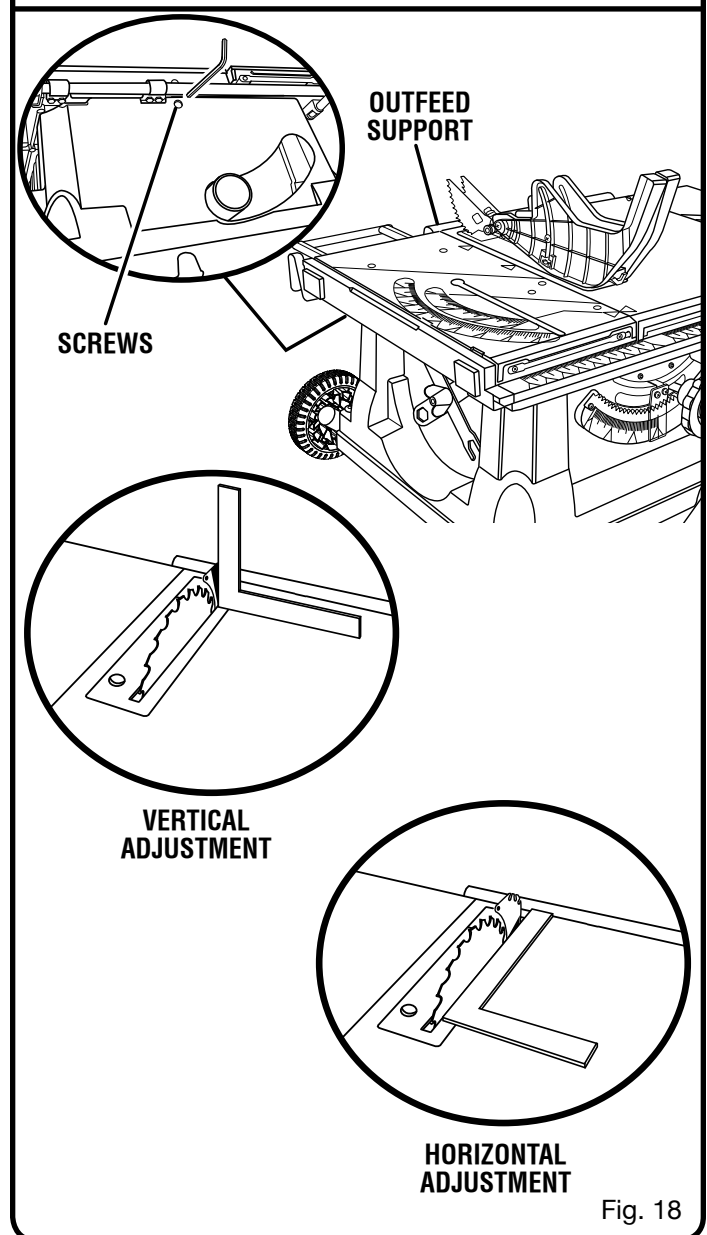
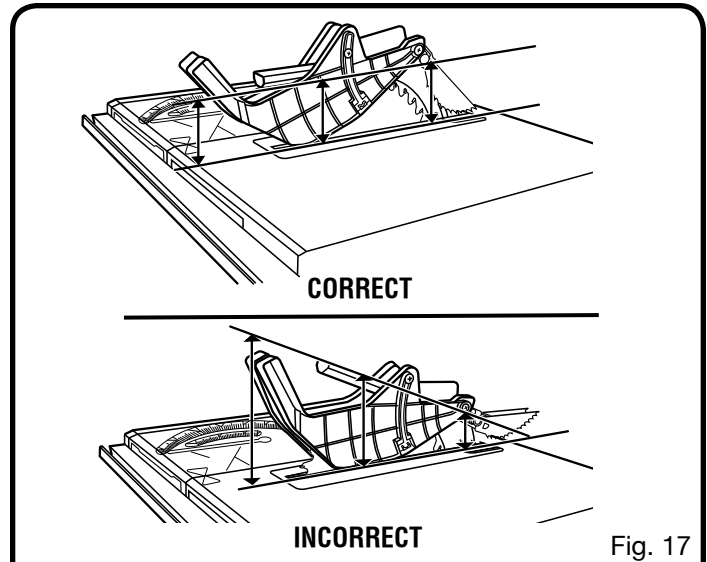
NOTE: Place framing square between carbide teeth and measure from blade. This step will insure framing square is square against blade from the front to back of blade.

- The saw blade and riving knife are aligned when the framing square contacts both the blade and riving knife evenly with no gaps.

If the riving knife is out of alignment with the saw blade, adjustment is needed. The riving knife must be in alignment front to back (horizontally) and top to bottom (vertically).

To adjust (horizontally and vertically):

- Remove the anti-kickback pawls and blade guard assembly.
- Grasp the outfeed support with both hands and pull it until it is fully extended.
- From the back of the saw, loosen the screws holding the mounting bracket.
- Reposition the riving knife left or right as needed to align the riving knife with the saw blade.
- Once properly aligned, securely retighten all screws.
- Check again for squareness and continue to adjust if needed.



ASSEMBLY

TO STORE PUSH STICK

See Figure 19.

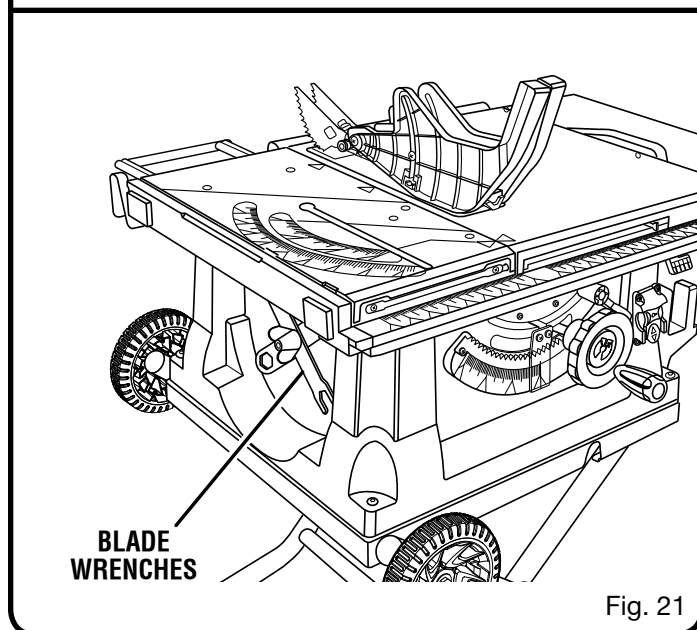
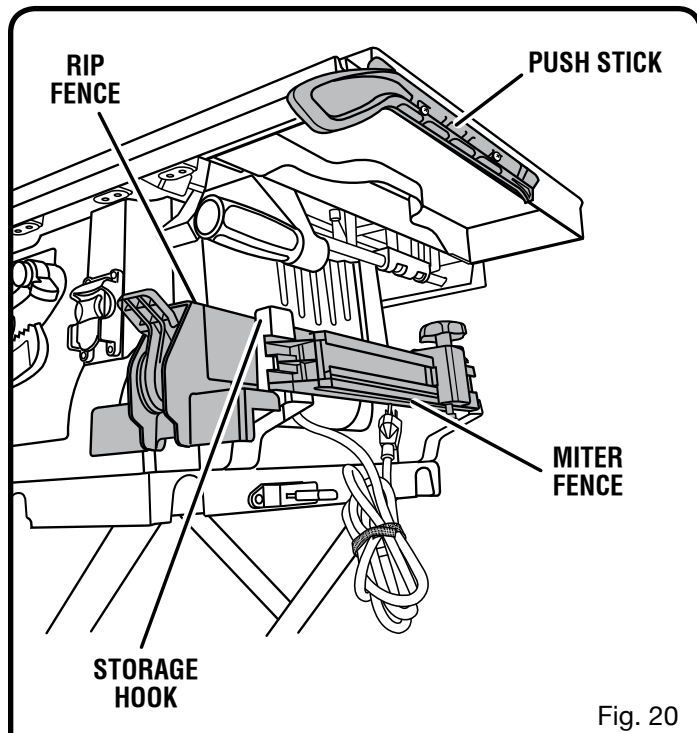
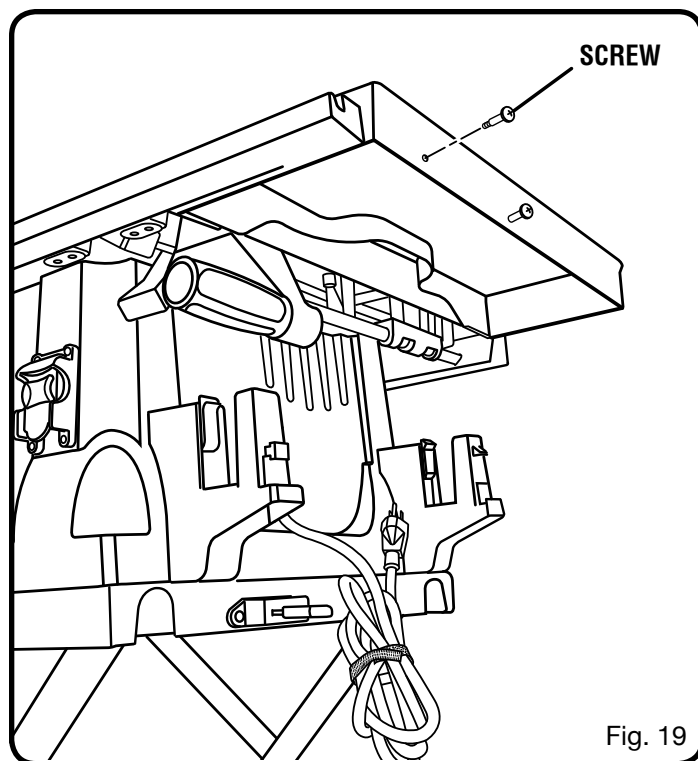
- Insert screws into the holes on the right side of the saw table.
- Tighten securely.
- Place the slots in the push stick over the screws and slide the push stick toward the back of the saw.

TO STORE THE TABLE SAW ACCESSORIES

See Figures 20 - 21.

The table saw has two convenient storage areas (one on either side of the saw cabinet) specifically designed for the saw's accessories.

When not in use, store the accessories securely by snapping each accessory in place.



OPERATION

WARNING:

Do not allow familiarity with tools to make you careless. Remember that a careless fraction of a second is sufficient to inflict severe injury.

WARNING:

Always wear eye protection with side shields marked to comply with ANSI Z87.1. Failure to do so could result in objects being thrown into your eyes, resulting in possible serious injury.

WARNING:

Do not use any attachments or accessories not recommended by the manufacturer of this tool. The use of attachments or accessories not recommended can result in serious personal injury.

WARNING:

Although many of the illustrations in this manual are shown with the blade guard removed for clarity, do not operate the saw without the blade guard unless specifically instructed to do so.

APPLICATIONS

You may use this tool for the purposes listed below:

- Straight line cutting operations such as cross cutting, ripping, mitering, beveling, and compound cutting
- Dado with optional accessories
- Cabinet making and woodworking

NOTE: This table saw is designed to cut wood and wood composition products only.

BASIC OPERATION OF THE TABLE SAW

The 3-prong plug must be plugged into a matching outlet that is properly installed and grounded according to all local codes and ordinances. Improper connection of the equipment can result in electric shock. Do not modify the plug if it will not fit the outlet. Have the correct outlet installed by a qualified electrician. Refer to the *Electrical* section in this manual.

CAUSES OF KICKBACK

Kickback can occur when the blade stalls or binds, kicking the workpiece back toward you with great force and speed. If your hands are near the saw blade, they may be jerked loose from the workpiece and may contact the blade. Kickback can cause serious injury. Use precautions to avoid the risks.

Kickback can be caused by any action that pinches the blade in the wood such as:

- Making a cut with incorrect blade depth
- Sawing into knots or nails in the workpiece
- Twisting the wood while making a cut
- Failing to support work
- Forcing a cut
- Cutting warped or wet lumber
- Using the wrong blade for the type of cut
- Not following correct operating procedures
- Misusing the saw
- Failing to use the anti-kickback pawls
- Cutting with a dull, gummed-up, or improperly set blade

AVOIDING KICKBACK

- Always use the correct blade depth setting. The top of the blade teeth should clear the workpiece by 1/8 in. to 1/4 in.
- Inspect the work for knots or nails before beginning a cut. Knock out any loose knots with a hammer. Never saw into a loose knot or nail.
- Always use the rip fence when rip cutting. Use the miter fence when cross cutting. This helps prevent twisting the wood in the cut.
- Always use clean, sharp, and properly-set blades. Never make cuts with dull blades.
- To avoid pinching the blade, support the work properly before beginning a cut.
- When making a cut, use steady, even pressure. Never force cuts.
- Do not cut wet or warped lumber.
- Use extra caution when cutting some prefinished or composition wood products as the anti-kickback pawls may not always be effective.
- Always guide your workpiece with both hands or with push sticks and/or push blocks. Keep your body in a balanced position to be ready to resist kickback should it occur. Never stand directly in line with the blade.
- Use of a featherboard will help hold the workpiece securely against the saw table or fence.
- Clean the saw, blade guard, under the throat plate, and any areas where saw dust or scrap workpieces may gather.
- Use the right type of blade for the cut being made.
- Always use the riving knife for every operation where it is allowed. The use of this device will greatly reduce the risk of kickback.

OPERATION

CUTTING AIDS

See Figure 22.

Push sticks are devices that may be used for pushing a workpiece through the blade in any rip cut. When making non-through cuts or ripping narrow stock, always use a push stick, push block, and/or featherboard so your hands do not come within 3 inches of the saw blade. They can be made in various sizes and shapes from scrap wood and used in a specific project. The stick must be narrower than the workpiece, with a 90° notch in one end and shaping for a grip on the other end.

A push block has a handle fastened by recessed screws from the underside. Use push blocks for narrow cuts and all non-through cuts.

CAUTION:

Be sure the screws in a push block are recessed to avoid damaging the saw or workpiece.

AUXILIARY FENCE

An auxiliary fence is a device used to close the gap between the rip fence and the saw table. Always make and use an auxiliary fence when ripping material 1/8 in. or thinner.

HOW TO MAKE AND ATTACH AN AUXILIARY FENCE (FOR RIP CUTTING THIN WORKPIECE)

See Figure 23.

Rip fence holes are used to secure an auxiliary fence which requires a piece of wood 3/4 in. thick, 3-1/2 in. wide, and 21 in. long to make.

To attach the auxiliary fence to the rip fence:

- Place the wood against the rip fence and resting firmly on the saw table.
- From the back side of the rip fence, secure the wood to the fence using 1-3/4 in. wood screws.

HOW TO MAKE A JIG (FOR RIP CUTTING NARROW WORKPIECE)

See Figure 24.

If ripping a narrow workpiece places the hands too close to the blade, it will be necessary to make and use a jig.

To make a jig:

- Attach a handle to a long, straight piece of wood and secure from the underside using recessed screws.
- Cut an L-shaped stop in the side of the jig.

To use a jig:

- Position the workpiece flat on the table with the edge flush against the jig and against the stop.
- Holding the jig handle and using a push block and/or push stick, make the rip cut as described on page 33 later in this section.

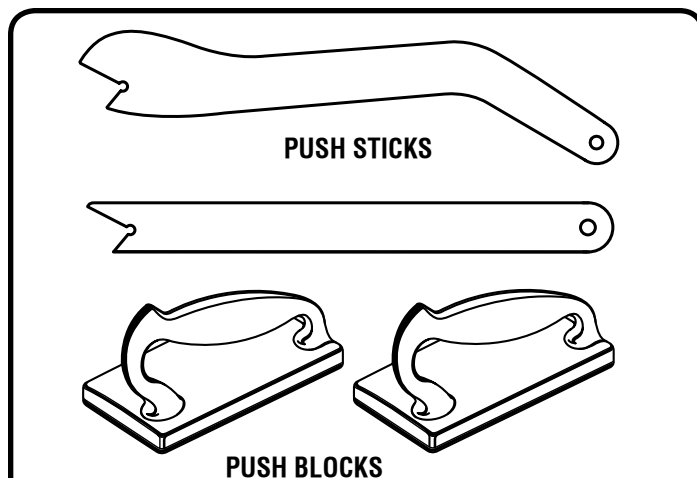


Fig. 22

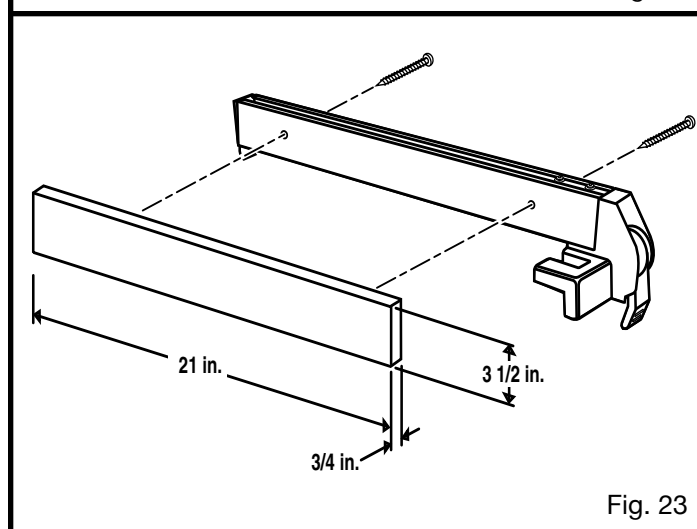


Fig. 23

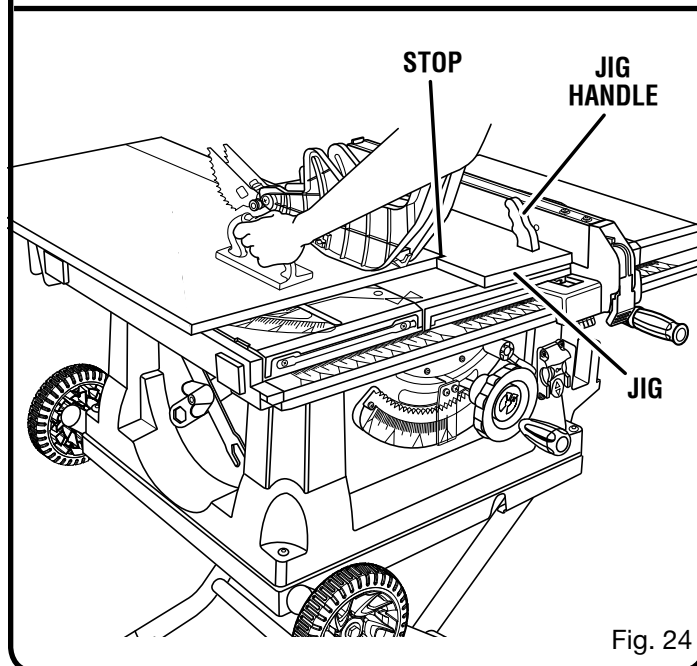


Fig. 24

OPERATION

TYPES OF CUTS

See Figure 25.

There are six basic cuts: 1) the cross cut, 2) the rip cut, 3) the miter cut, 4) the bevel cross cut, 5) the bevel rip cut, and 6) the compound (bevel) miter cut. All other cuts are combinations of these basic six. Operating procedures for making each kind of cut are given later in this section.

⚠ WARNING:

Always make sure the blade guard and anti-kickback pawls are in place and working properly when making these cuts to avoid possible injury.

Cross cuts are straight 90° cuts made across the grain of the workpiece. The wood is fed into the cut at a 90° angle to the blade, and the blade is vertical.

Rip cuts are made with the grain of the wood. To avoid kickback while making a rip cut, make sure one side of the wood rides firmly against the rip fence.

Miter cuts are made with the wood at any angle to the blade other than 90°. The blade is vertical. Miter cuts tend to “creep” during cutting. This can be controlled by holding the workpiece securely against the miter fence.

⚠ WARNING:

Always use a push stick with small pieces of wood, and also to finish the cut when ripping a long narrow piece of wood, to prevent your hands from getting close to the blade.

Bevel cuts are made with an angled blade. Bevel cross cuts are across the wood grain, and bevel rip cuts are with the grain.

Compound (or bevel) miter cuts are made with an angled blade on wood that is angled to the blade. Be thoroughly familiar with making cross cuts, rip cuts, bevel cuts, and miter cuts before trying a compound miter cut.

CUTTING TIPS

Dado and rabbet cuts are non-through cuts which can be either rip cuts or cross cuts. Carefully read and understand all sections of this operator's manual before attempting any operation.

⚠ WARNING:

Do not use blades rated less than the speed of this tool. Failure to heed this warning could result in personal injury.

- The kerf (the cut made by the blade in the wood) will be wider than the blade to avoid overheating or binding. Make allowance for the kerf when measuring wood.

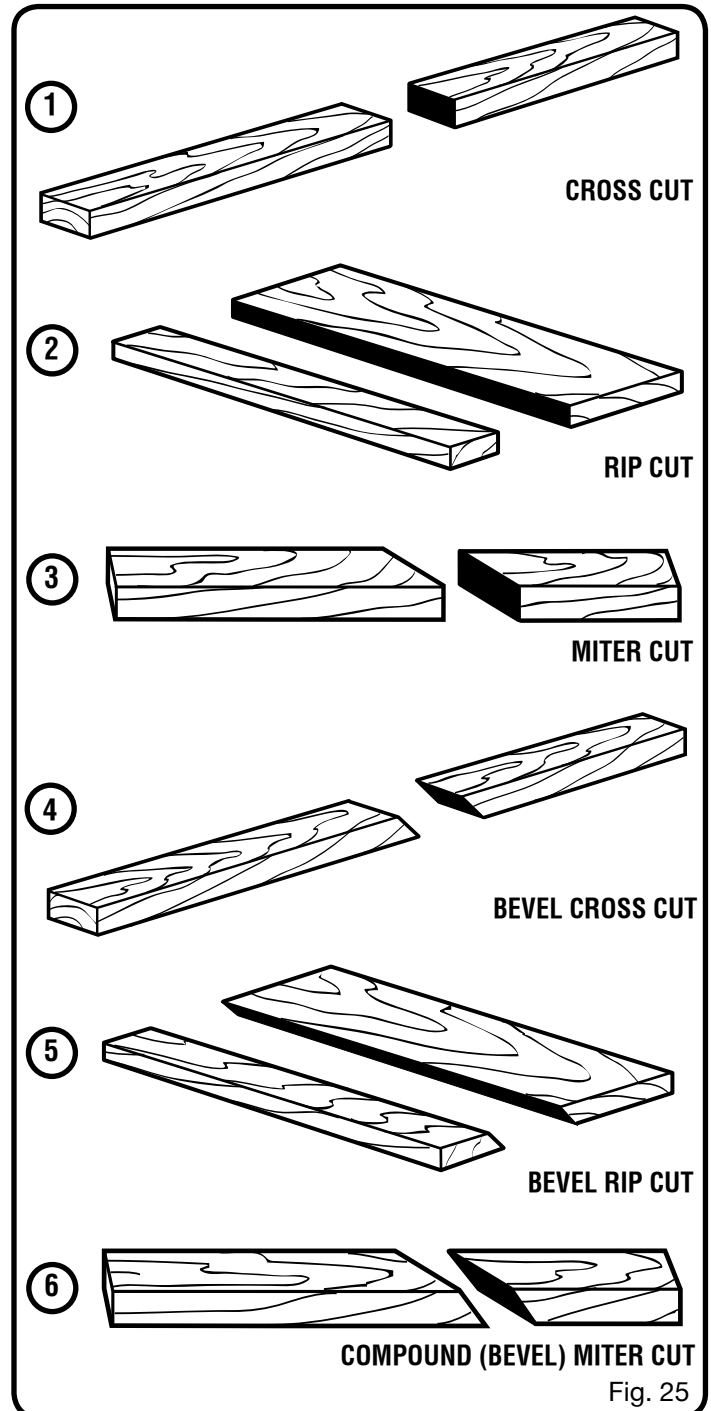


Fig. 25

- Make sure the kerf is made on the waste side of the measuring line.
- Cut the wood with the finish side up.
- Knock out any loose knots with a hammer before making the cut.
- Always provide proper support for the wood as it comes out of the saw.

OPERATION

FEATHERBOARD

A featherboard is a device used to help control the workpiece by guiding it securely against the table or fence. Featherboards are especially useful when ripping small workpieces and for completing non-through cuts. The end is angled with a number of short kerfs to give a friction hold on the workpiece and locked in place on the table with a C-clamp. Test to ensure it can resist kickback.

⚠ WARNING:

Place the featherboard against the uncut portion of the workpiece to avoid kickback that could cause serious personal injury.

HOW TO MAKE A FEATHERBOARD

See Figure 26.

The featherboard is an excellent project for the saw. Select a solid piece of lumber approximately 3/4 in. thick, 3-5/8 in. wide and 18 in. long. Mark the center of the width on one end of the stock. Miter one-half of the width to 30° and miter the other half of the same end to 45° (see page 33 for information on miter cuts). Mark the board from the point at 6 in., 8 in., 10 in., and 12 in. Drill a 3/8 in. hole at the 8 in., 10 in., and 12 in. marks.

Prepare the saw for ripping as discussed on page 33. Set the rip fence to allow approximately a 1/4 in. "finger" to be cut in the stock. Feed the stock only to the mark previously made at 6 in. Turn the saw **OFF** and allow the blade to completely stop rotating before removing the stock. Reset the rip fence and cut spaced rips into the workpiece to allow approximately 1/4 in. fingers and 1/8 in. spaces between the fingers.

HOW TO MOUNT A FEATHERBOARD

See Figure 27.

Remove the lock knob, bolt, and washer from the miter fence holder. Place the bolt through one of the holes in the

featherboard. Positioning the featherboard will depend on the placement of the bolt and the position of the sliding miter table on the rails. Place the washer on the bolt and attach the lock knob, loosely. Position the featherboard with the hex head of the bolt in the miter table slot but do not tighten. Completely lower the saw blade. Position the rip fence to the desired adjustment for the cut to be performed and lock. Place the workpiece against the fence and over the saw blade area. Adjust the featherboard to apply resistance to the workpiece just forward of the blade. Securely tighten the lock knob to secure the featherboard in place. Attach a C-clamp to further secure the featherboard to the edge of the sliding miter table.

⚠ WARNING:

Adjust the featherboard to apply resistance to the workpiece just forward of the blade. If positioned improperly, kickback can result from the featherboard pinching the workpiece and binding the blade in the saw kerf. Failure to heed this warning can result in serious personal injury.

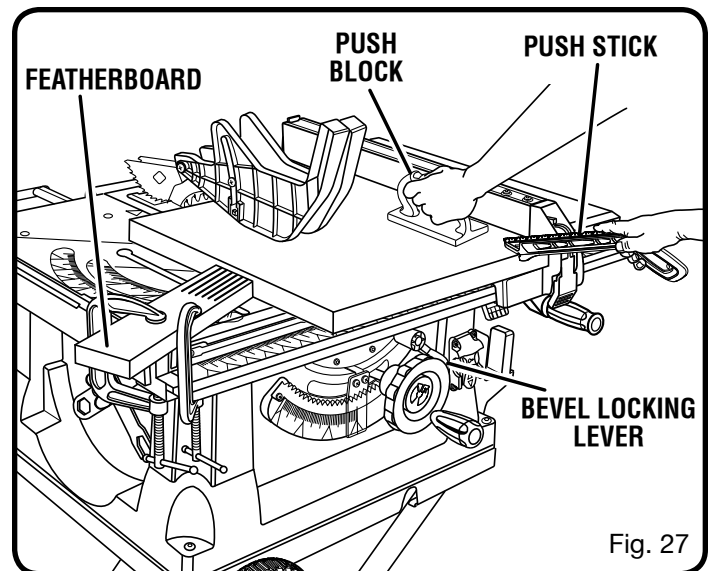


Fig. 27

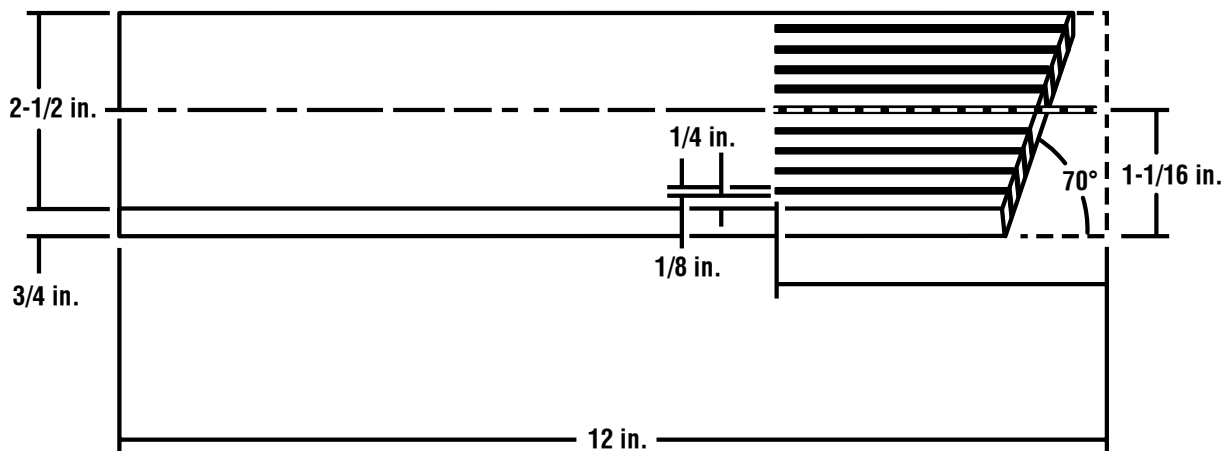


Fig. 26

OPERATION

TO CHANGE BLADE DEPTH

See Figure 28.

The blade depth should be set so that the outer points of the blade are higher than the workpiece by approximately 1/8 in. to 1/4 in. but the lowest points (gullets) are below the top surface.

- Raise the blade by turning the height/bevel adjusting handwheel counterclockwise or lower it by turning the handwheel clockwise.

TO CHANGE BLADE ANGLE (BEVEL)

See Figure 29.

- Push the bevel locking lever up for angle mode.
- To angle the blade, push the height/bevel adjusting handwheel into the cabinet, to engage bevel gear, and turn the handwheel until the bevel indicator shows the correct angle.
- Push the bevel locking lever down to lock the angle, while holding the height/bevel adjusting handwheel in place.

TO ADJUST THE BEVEL INDICATOR

See Figure 29.

If the bevel indicator is not at zero when the saw blade is at 90°, adjust the indicator by loosening the screws and setting it at 0° on the bevel scale. Retighten the screws.

CHECKING SLIDING MITER TABLE AND MAKING ADJUSTMENTS

TO POSITION THE SLIDING MITER TABLE

See Figures 30- 31.

A slide bolt is located on the front of the saw between the saw table and the front scale. When the arrows on both the saw table and sliding table are aligned, this bolt slides through the holes in both tables locking them into a fixed position.

The sliding table has three positions providing additional front support when working with larger workpieces. Always lock the sliding table when not in use.

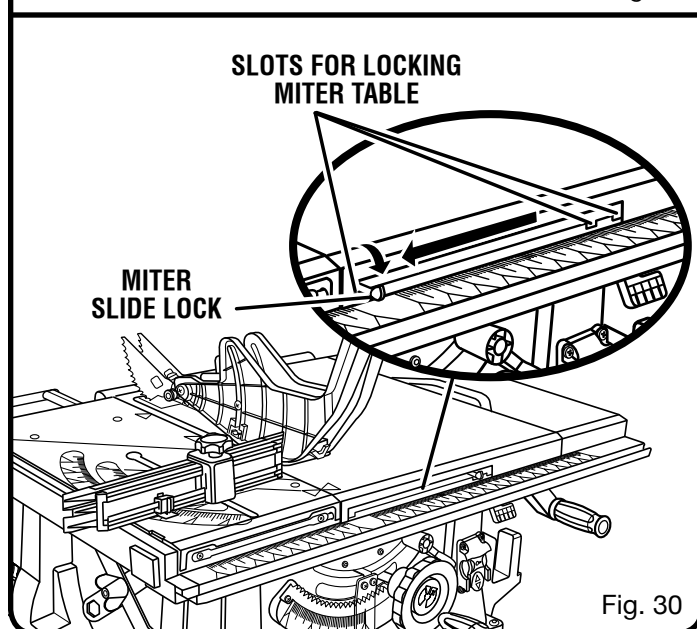
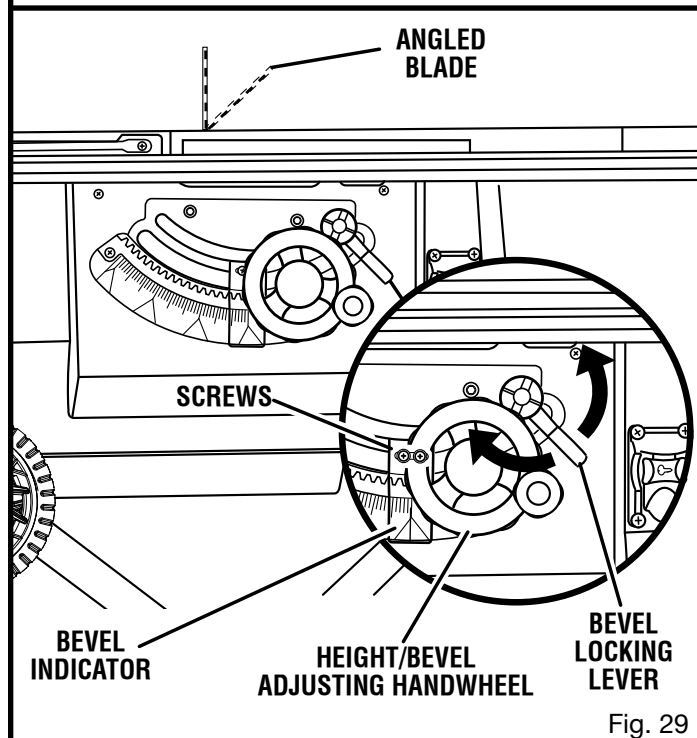
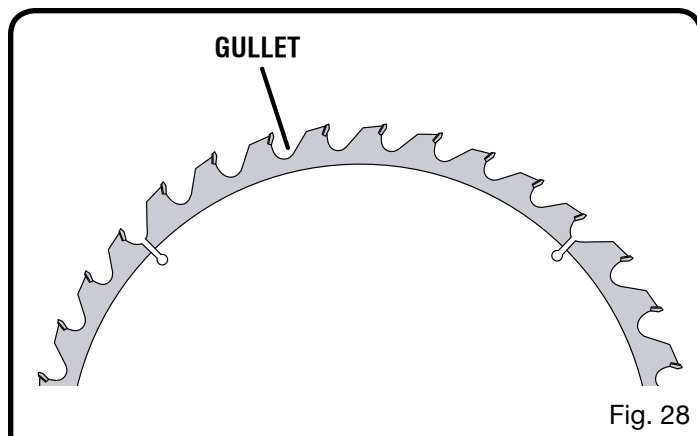
To unlock the sliding miter table:

- Lift the tab on the slide bolt and move the bolt to the far right.
- Lock the bolt into position by pushing the tab down and into the far right-hand notch.

To lock the sliding miter table:

- Lift the tab and slide the bolt through both tables.
- Lock the bolt into position by pushing the tab down and into the notch.

NOTE: When moving the miter base, keep hands and fingers out of areas where they may be pinched. Pull the miter base into position with fingers extended and using only your thumb as shown in figure 31.



OPERATION

TO CHECK MITER BASE PARALLELISM

See Figures 32 - 33.

- Unplug the saw.
- Set saw up as if you were preparing to make a cut. Tighten rail clamps, miter locking clamps, lock knob, etc.
- Slide miter table (A) to the front of miter base (B) as far as it will go. Place a reference mark (C) near the end of the miter table as shown in figure 32.

NOTE: Front of miter base is on infeed side of saw.

- Place a reference mark on one of the blade teeth (D) and rotate the blade (E) so that the reference mark on the blade is at the front of the throat plate.
- Place a framing square (G) against the blade and align with reference mark on miter table. Measure the distance between the blade and the edge of miter table.

NOTE: Place framing square between carbide teeth and measure from blade. This step will insure framing square is square against blade from the front to back of blade.

- Remove framing square and slide miter table to the rear of miter base as far as it will go.
- Rotate the blade so the reference mark on the blade is at the rear of the throat plate. Measuring from the same mark on the blade at the rear will eliminate the effect of blade wobble.
- Place framing square against the blade and align with the same reference mark on the miter table. Measure the distance between the blade and the edge of the miter table at the rear.

- Compare whether the front and rear measurements are the same. If they are the same, proceed with checking the miter fence alignment. If not, this indicates the miter base needs aligning. Miter base must then be adjusted before checking miter fence alignment. See **To Adjust the Miter Table** section that follows.

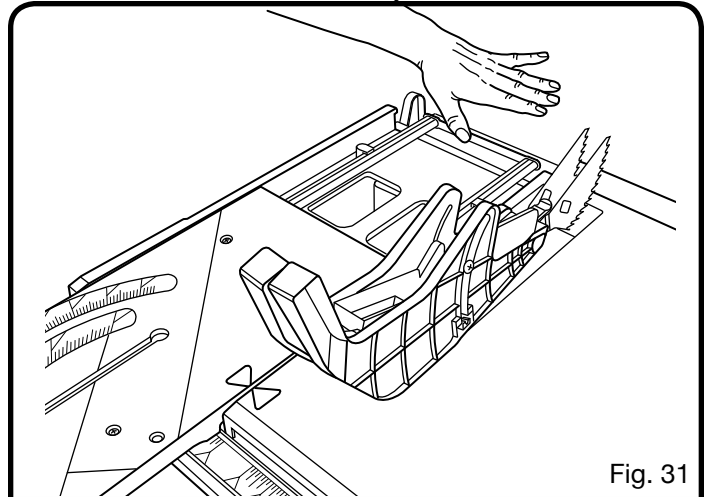


Fig. 31

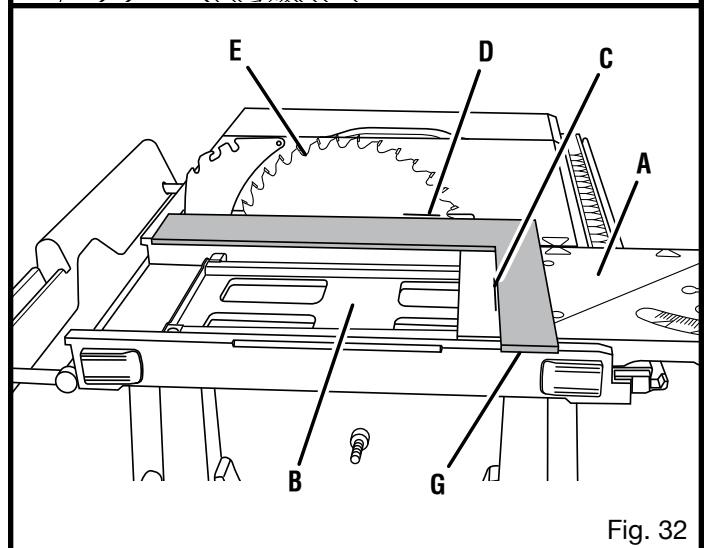


Fig. 32

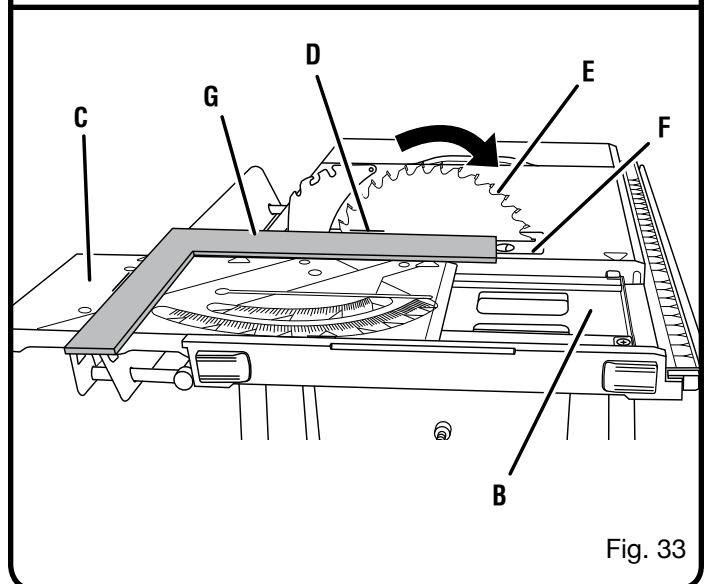


Fig. 33

OPERATION

TO CHECK MITER FENCE ALIGNMENT

See Figure 34.

The miter fence must be perpendicular to the blade when set at zero degrees.

- Set the miter fence (H) at 0°. Miter indicator (I) should be set precisely on 0° and secured in place with adjusting clamp (J).

NOTE: The quick-stop is not used when checking alignment. However, you may want to set it to 0° and check and adjust it at this time. See **To Adjust the Quick Stop** in the *Adjustment* section.

- Place a framing square (G) firmly against the miter fence (H), with the other side against the blade (E).
- Check whether the miter fence and blade are square with each other. With the framing square against the miter fence there should be no gap from the front to the rear of the blade.
- If a gap exists, the miter fence may be out of square.
- Rotate the blade and recheck. If there is a consistent gap between the front and rear of the blade, the miter table needs aligning. Follow the adjustment procedures that follow.

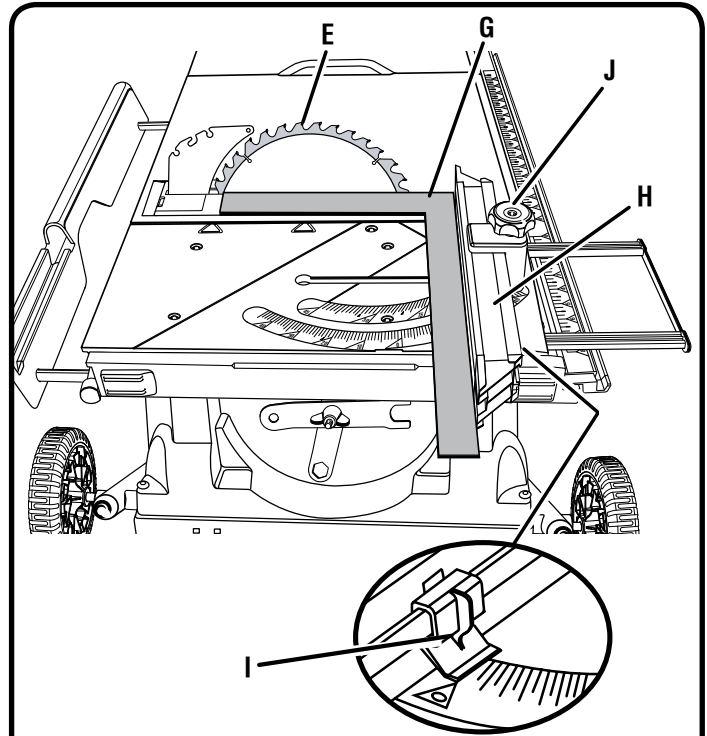


Fig. 34

TO ADJUST THE MITER TABLE

See Figure 35.

Remember: Check all settings before loosening screws for the following procedures. Once screws have been loosened, these settings must be reset.

- Unplug the saw.
- Set the miter fence at 0° then securely tighten the lock knob.
- Push the sliding miter table to the back and loosen the right-front screw from beneath the table saw cabinet.
- Loosen the nylock nut beneath the front left eccentric screw.
- Place one side of a framing square firmly against the miter fence and the other side against the saw blade.
- Using a Phillips screwdriver, turn the eccentric screw until the miter fence and the blade are square.
- Hold the eccentric screw in place with the screwdriver and tighten the nylock nut securely.
- Retighten the front right-hand screw.

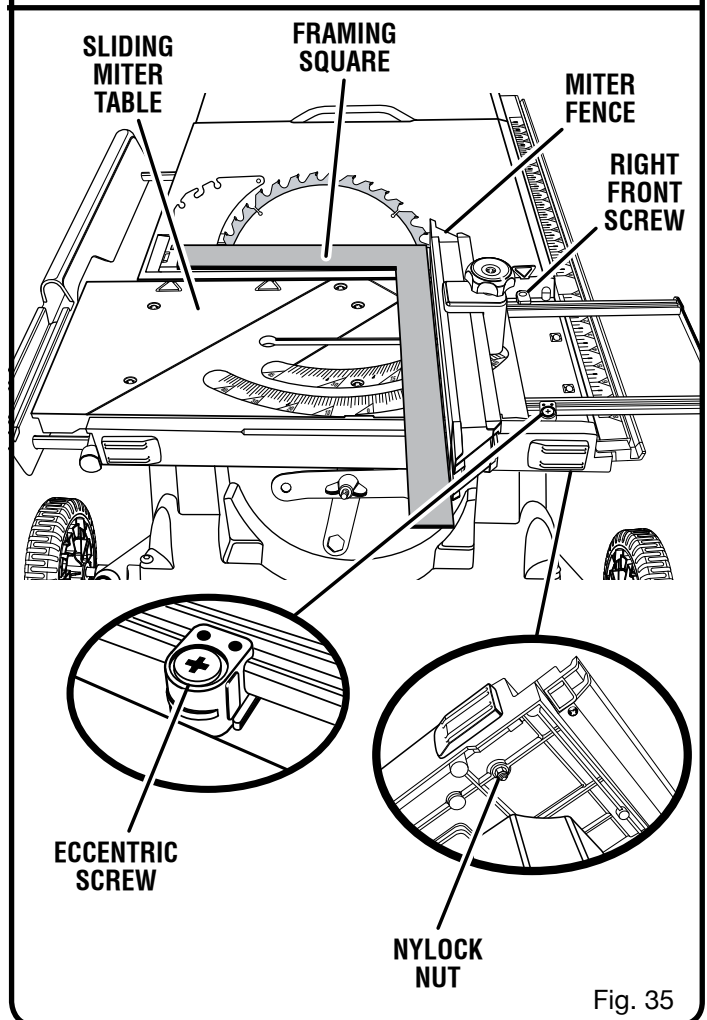


Fig. 35

OPERATION

⚠ WARNING:

To reduce the risk of injury, always make sure the rip fence is parallel to the blade before beginning any operation.

TO SET THE RIP FENCE SCALE INDICATOR TO THE BLADE

See Figure 36.

Begin with the blade at a zero angle (straight up).

- Unplug the saw.
- Loosen the rip fence by lifting the locking lever.
- Using a framing square, set the rip fence 2 in. from the blade tip edge.
- Loosen the screw on the scale indicator and align with the 2 in. mark as shown.
- Tighten the screw and check the dimension and the rip fence.

TO USE THE RIP FENCE

See Figure 37.

- Place the rip fence flat on the saw table, push the fence towards the front rail to align the fence to the saw table.
 - Push the locking lever down to secure the fence.
- Check for a smooth gliding action. If adjustments are needed, see **To Check the Alignment of the Rip Fence to the Blade** in the *Adjustment* section of this manual.

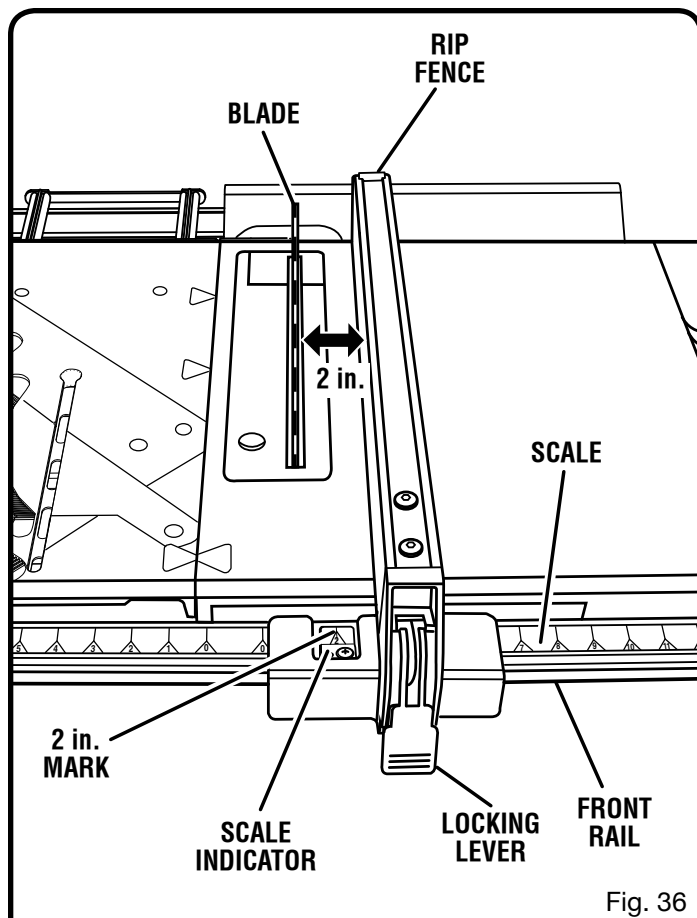


Fig. 36

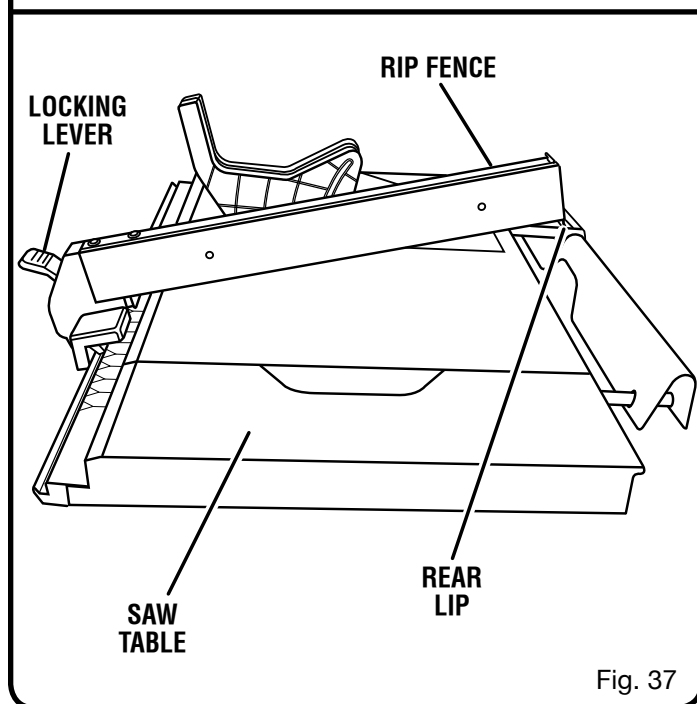


Fig. 37

OPERATION

TO USE OUTFEED SUPPORT

See Figure 38.

The outfeed support slides to give the operator additional support for cutting long workpieces.

- With the table saw in the **OFF** position, stand behind the saw.
- Grasp the outfeed support with both hands and pull it until it is fully extended.

TO USE THE TABLE EXTENSION

See Figure 39.

The table extension provides the operator with additional table width for supporting wider workpieces.

To extend:

- Set the rip fence to 16 in.
- Push the table extension lever beneath the saw table towards the back of the saw.
- Grasp the table extension with both hands and pull it until the scale on the front rail indicates the desired measurement.
- Retighten the table extension lever by pulling it towards the front of the saw.

To close:

- Push the table extension lever beneath the saw table towards the back of the saw.
- Push the table extension with both hands back toward the saw table.
- Retighten the table extension lever by pulling it towards the front of the saw.

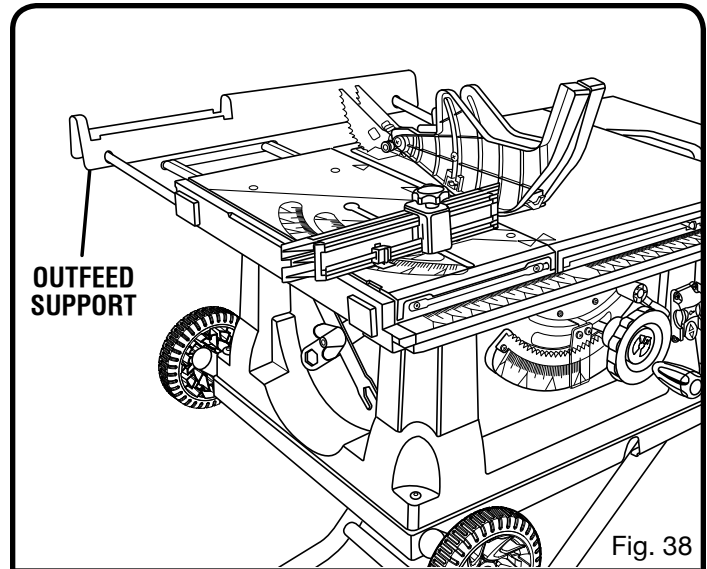


Fig. 38

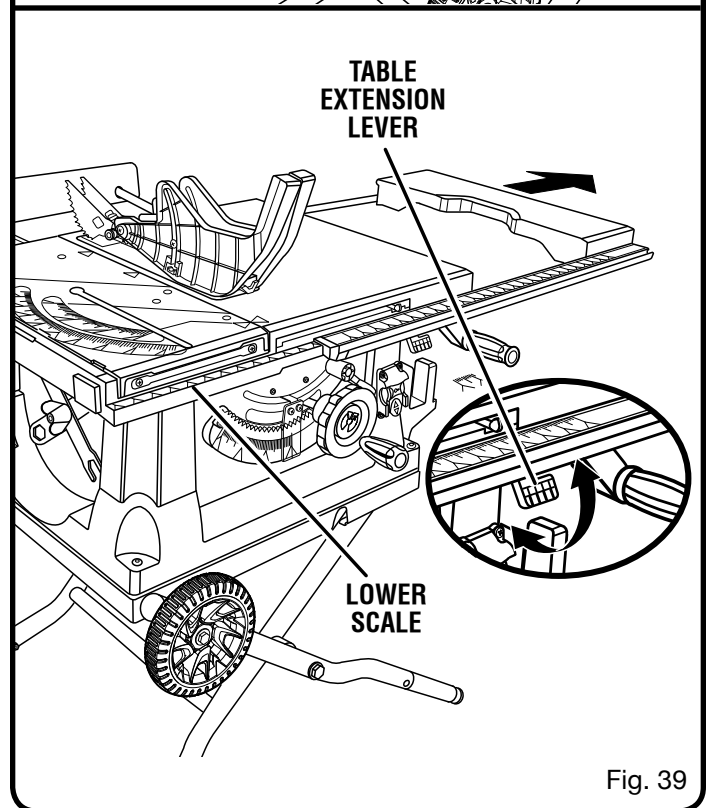


Fig. 39

OPERATION

HEELING (PARALLELING) THE BLADE

See Figures 40 - 41.

WARNING:

The blade must be square so the wood does not bind resulting in kickback. Failure to do so could result in serious personal injury.

Do not loosen any bolts for this adjustment until you have checked with a square and made test cuts to be sure adjustments are necessary. Once the bolts are loosened, these items must be reset.

- Unplug the saw.
- Lift the blade guard. Raise the blade all the way by turning the height/bevel adjusting handwheel.
- Mark beside one of the blade teeth at the front of the blade. Place a framing square even with the front of the saw table and the side of the saw blade as shown in figure 40.
- Turn the blade so the marked tooth is at the back.
- Move the framing square to the rear and again measure the distance. If the distances are the same, the blade is square.

If the distances are different, square the blade with the following steps:

- Extend the extension table, *see page 30*.
- Loosen adjusting bolts (1), (3), (4), and (5).

NOTE: The adjusting bolts are located above the height/bevel adjusting handwheel and under the saw table in the front of the saw.

- Turn adjusting bolt (2) left or right until the blade is square.

NOTE: If the back of the blade was too far from the framing square, place a block of wood on the left side of the blade and push it into the blade until the blade is square. Retighten the bolts.

If the back of the blade was too close to the framing square, place a block of wood on the right side of the blade and push it into the blade until the blade is square. Retighten the bolts.

WARNING:

To reduce the risk of injury from kickback, align the rip fence to the blade following any blade adjustments. Always make sure the rip fence is parallel to the blade before beginning any operation.

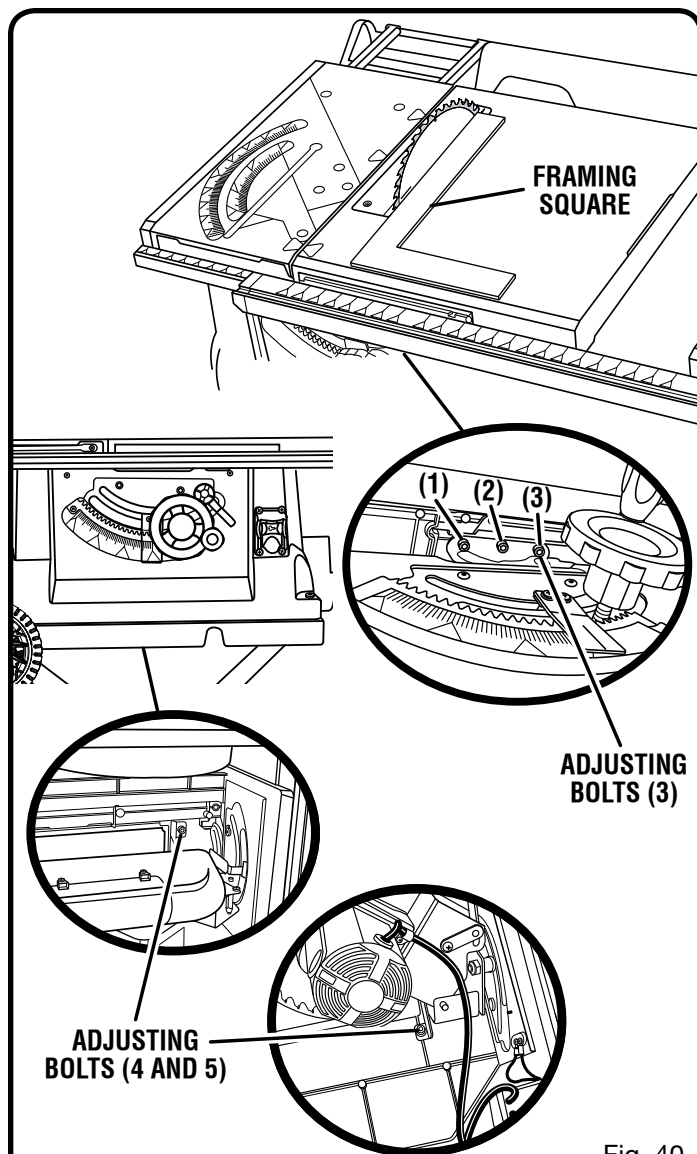


Fig. 40

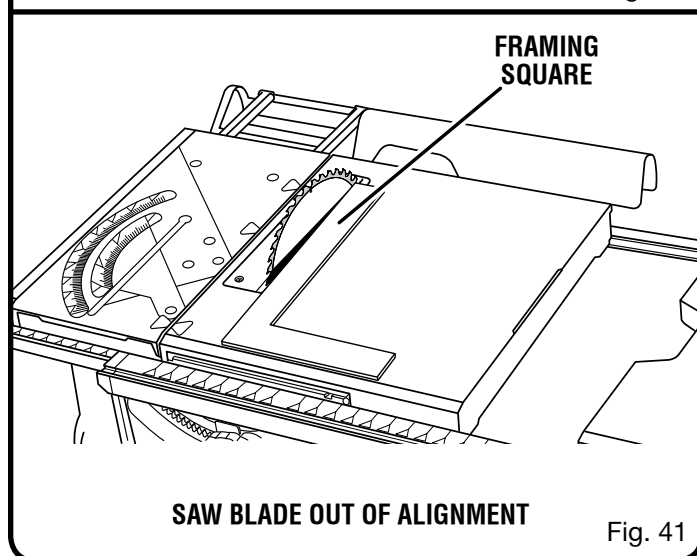


Fig. 41

OPERATION

MAKING CUTS

The blade provided with the saw is a high-quality combination blade suitable for ripping and cross cut operations.

⚠ WARNING:

Do not use blades rated less than the speed of this tool. Failure to heed this warning could result in personal injury.

Use the miter fence when making cross, miter, bevel, and compound miter cuts. To secure the angle, lock the miter fence in place by twisting the lock knob clockwise. Always tighten the lock knob securely in place before use.

NOTE: It is recommended that you place the piece to be saved on the left side of the blade and that you make a test cut on scrap wood first.

MAKING A CROSS CUT

See Figures 42 - 43.

⚠ WARNING:

Using the rip fence as a cutoff gauge when cross cutting will result in kickback which can cause serious personal injury.

⚠ WARNING:

Make sure the blade guard assembly is installed and working properly to avoid possible serious injury.

- Remove the rip fence.
- Set the blade to the correct depth for the workpiece.
- Set the miter fence to 0° and tighten the lock knob.
- Make sure the wood is clear of the blade before turning on the saw.
- To turn the saw on, lift the switch button.
- To turn saw off, press the switch button down.

NOTE: To prevent unauthorized use, remove the switch key as shown in figure 43.

- Let the blade build up to full speed before moving the workpiece into the blade.
- Hold the workpiece firmly with both hands on the miter fence and feed the workpiece into the blade.
- When the cut is made, turn the saw off. Wait for the blade to come to a complete stop before removing the workpiece.

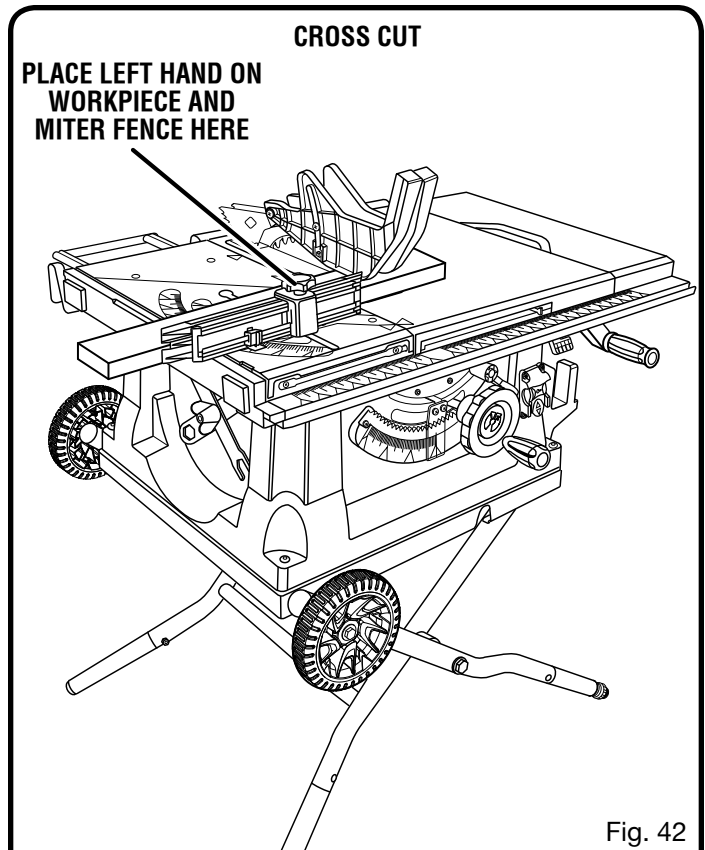
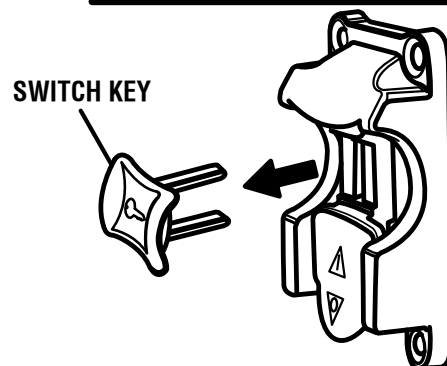
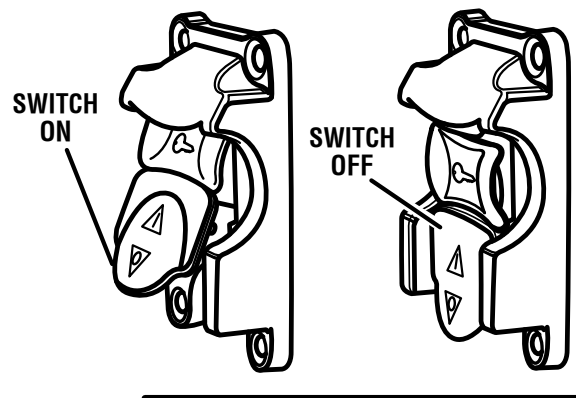


Fig. 42



SWITCH IN LOCKED POSITION

Fig. 43

OPERATION

MAKING A RIP CUT

See Figure 44.

WARNING:

Make sure the blade guard assembly is installed and working properly to avoid serious possible injury.

- Remove the miter fence.
- Set the blade to the correct depth for the workpiece.
- Position the rip fence the desired distance from the blade for the cut and securely lock the handle.
- Make sure the wood is clear of the blade before turning on the saw.
- When ripping a long workpiece, place a support the same height as the table surface behind the saw for the cut work.
- Turn the saw on.
- Position the workpiece flat on the table with the edge flush against the rip fence. Let the blade build up to full speed before feeding the workpiece into the blade.
- Once the blade has made contact with the workpiece, use the hand closest to the rip fence to guide it. Make sure the edge of the workpiece remains in solid contact with both the rip fence and the surface of the table. If ripping a narrow piece, use a push stick and/or push blocks to move the piece through the cut and past the blade.
- When the cut is made, turn the saw off. Wait for the blade to come to a complete stop before removing the workpiece.

MAKING A MITER CUT

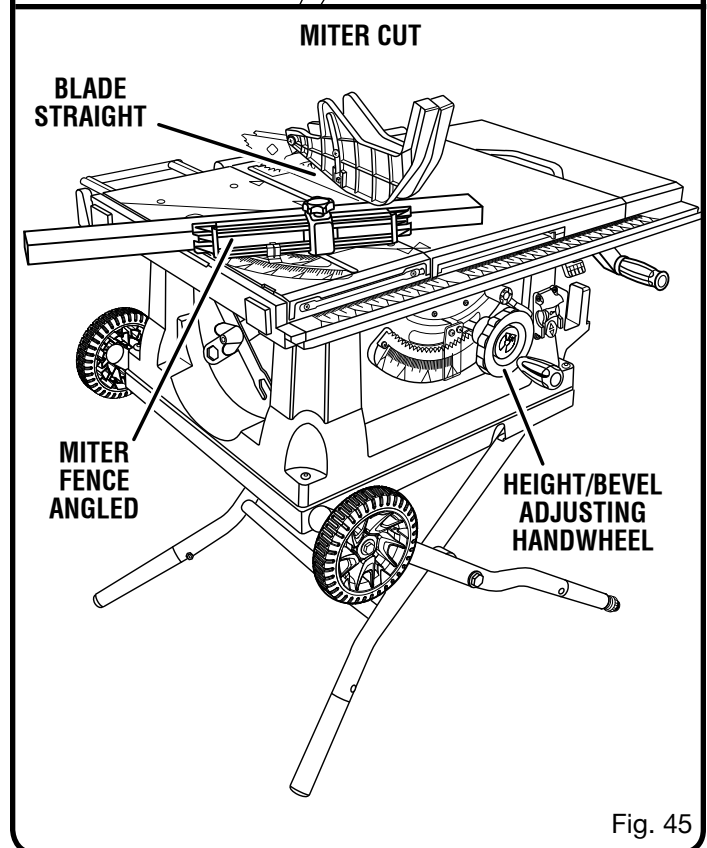
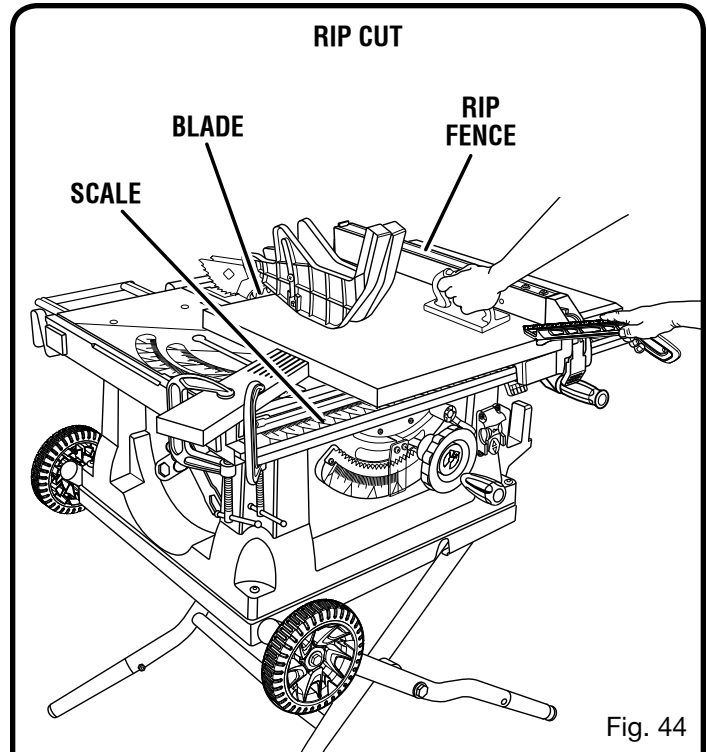
See Figure 45.

WARNING:

Make sure the blade guard assembly is installed and working properly to avoid possible serious injury.

- Remove the rip fence.
- Set the blade to the correct depth for the workpiece.
- Set the miter fence to the desired angle and tighten the lock knob.
- Make sure the wood is clear of the blade before turning on the saw.
- Turn the saw on.
- Let the blade build up to full speed before moving the workpiece into the blade.
- Hold the workpiece firmly with both hands on the miter fence and feed the workpiece into the blade.

NOTE: The hand closest to the blade should be placed on the miter fence lock knob and the hand farthest from the blade should be placed on the workpiece.



- When the cut is made, turn the saw off. Wait for the blade to come to a complete stop before removing the workpiece.

OPERATION

MAKING A BEVEL CROSS CUT

See Figures 46 - 47.

WARNING:

Make sure the blade guard assembly is installed and working properly to avoid possible serious injury.

- Remove the rip fence.
- Unlock the bevel locking lever.
- Adjust the bevel angle to the desired setting.
- Lock the bevel locking lever.
- Set the blade to the correct depth for the workpiece.
- Set the miter fence to 0° and tighten the lock knob.
- Make sure the wood is clear of the blade before turning on the saw.
- Turn the saw on.
- Let the blade build up to full speed before moving the workpiece into the blade.
- Hold the workpiece firmly with both hands on the miter fence and feed the workpiece into the blade.

NOTE: The hand closest to the blade should be placed on the miter fence lock knob and the hand farthest from the blade should be placed on the workpiece.

- When the cut is made, turn the saw off. Wait for the blade to come to a complete stop before removing the workpiece.

MAKING A BEVEL RIP CUT

See Figure 48.

WARNING:

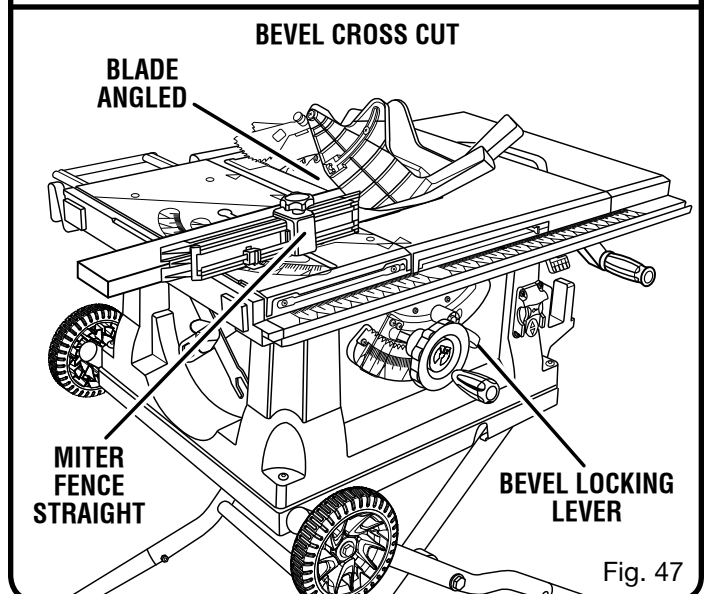
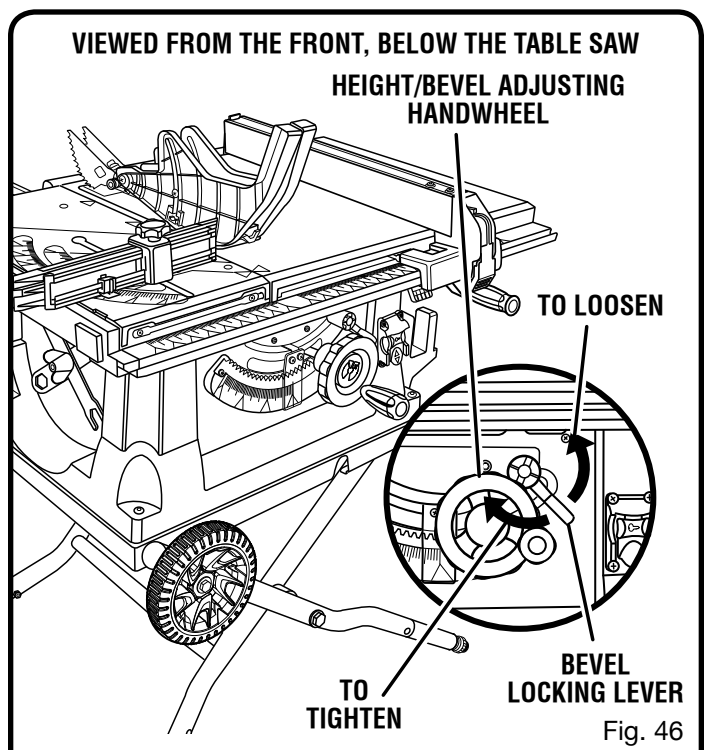
Make sure the blade guard assembly is installed and working properly to avoid serious personal injury.

WARNING:

The rip fence must be on the right side of the blade to avoid trapping the wood and causing kickback. Placement of the rip fence to the left of the blade will result in kickback and the risk of serious personal injury.

- Remove the miter fence.
- Unlock the bevel locking lever.
- Adjust the bevel angle to the desired setting.

- Lock the bevel locking lever.
- Set the blade to the correct depth for the workpiece.
- Position the rip fence the desired distance from the blade for the cut and securely lock the handle.
- Make sure the wood is clear of the blade before turning on the saw.
- Position the workpiece flat on the table with the edge flush against the rip fence. Let the blade build up to full speed before feeding the workpiece into the blade.
- Using a push stick and/or push blocks, slowly feed the workpiece toward the blade. Stand slightly to the side of the wood as it contacts the blade to reduce the chance of injury should kickback occur.



OPERATION

- When ripping a long workpiece, place a support the same height as the table surface behind the saw for the cut work.
- Turn the saw on.
- Position the workpiece flat on the table with the edge flush against the rip fence. Let the blade build up to full speed before feeding the workpiece into the blade.
- Once the blade has made contact with the workpiece, use the hand closest to the rip fence to guide it. Make sure the edge of the workpiece remains in solid contact with both the rip fence and the surface of the table. If ripping a narrow piece, use a push stick and/or push blocks to move the piece through the cut and past the blade.
- When the cut is made, turn the saw off. Wait for the blade to come to a complete stop before removing the workpiece.

MAKING A COMPOUND (BEVEL) MITER CUT

See Figure 49.

⚠ WARNING:

Make sure the blade guard assembly is installed and working properly to avoid possible serious injury.

- Remove the rip fence.
 - Unlock the bevel locking lever.
 - Adjust the bevel angle to the desired setting.
 - Lock the bevel locking lever.
 - Set the blade to the correct depth for the workpiece.
 - Set the miter fence to the desired angle and tighten the lock knob.
 - Make sure the wood is clear of the blade before turning on the saw.
 - Turn the saw on.
 - Let the blade build up to full speed before moving the workpiece into the blade.
 - Hold the workpiece firmly with both hands on the miter fence and feed the workpiece into the blade.
- NOTE:** The hand closest to the blade should be placed on the miter fence lock knob and the hand farthest from the blade should be placed on the workpiece.
- When the cut is made, turn the saw off. Wait for the blade to come to a complete stop before removing the workpiece.

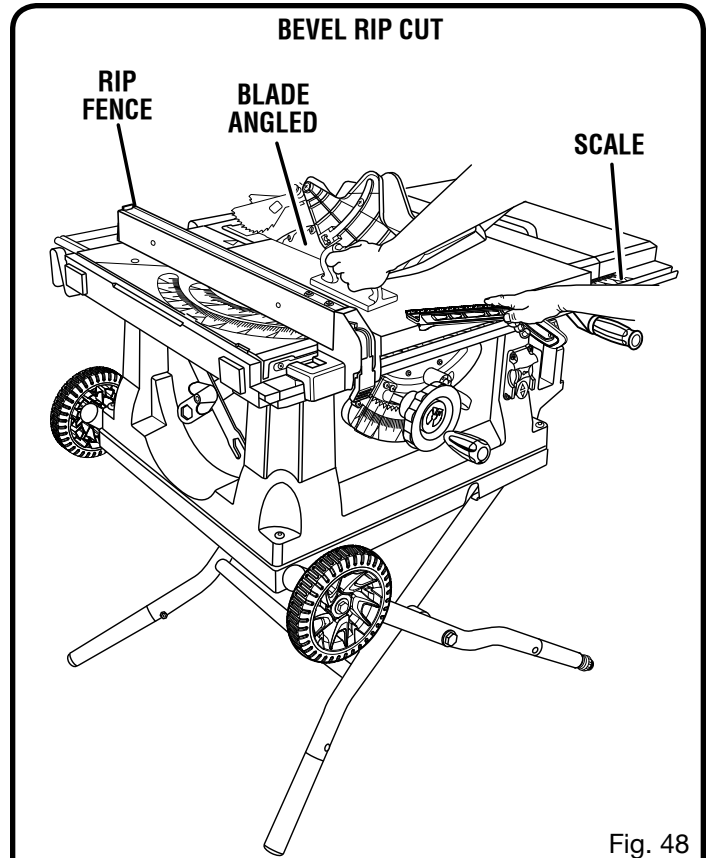


Fig. 48

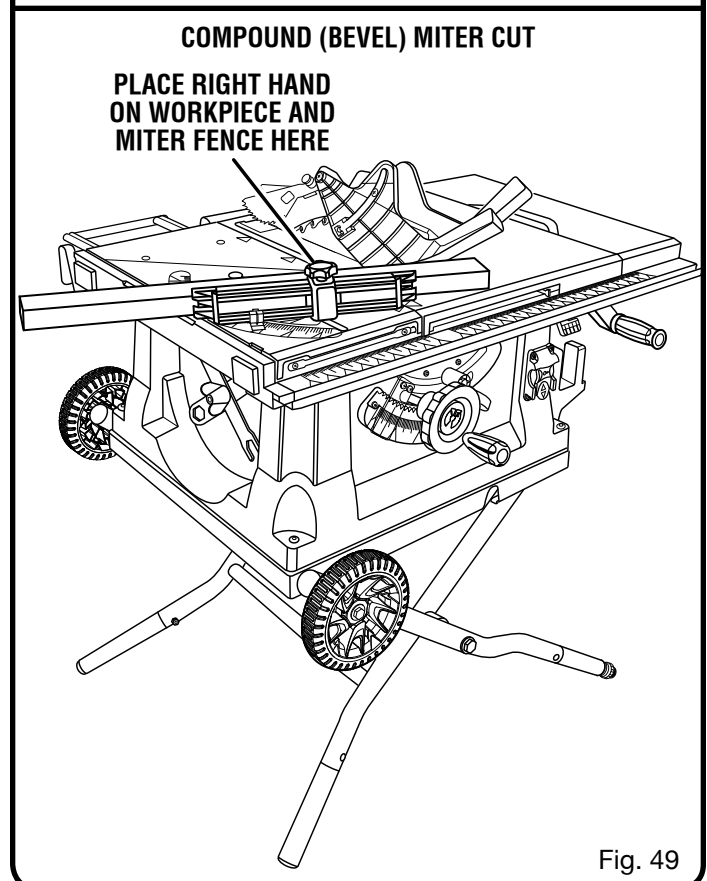


Fig. 49

OPERATION

MAKING A LARGE PANEL CUT

See Figure 50.

Make sure the saw is properly secured to a work surface to avoid tipping from the weight of a large panel.

WARNING:

Make sure the blade guard assembly is installed and working properly to avoid possible serious injury.

WARNING:

Never make freehand cuts (cuts without the miter fence or rip fence). Unguided workpieces can result in serious injury.

- Place a support the same height as the top of the saw table behind the saw for the cut work. Add supports to the sides as needed.
- Depending on the shape of the panel, use the rip fence or miter fence. If the panel is too large to use either the rip fence or the miter fence, it is too large for this saw.
- Make sure the wood does not touch the blade before you turn on the saw.
- Turn the saw on.
- Position the workpiece flat on the table with the edge flush against the rip fence. Let the blade build up to full speed before feeding the workpiece into the blade.
- Use a push stick to move the piece through the cut and past the blade.
- When the cut is made, turn the saw off. Wait for the blade to come to a complete stop before removing the workpiece.

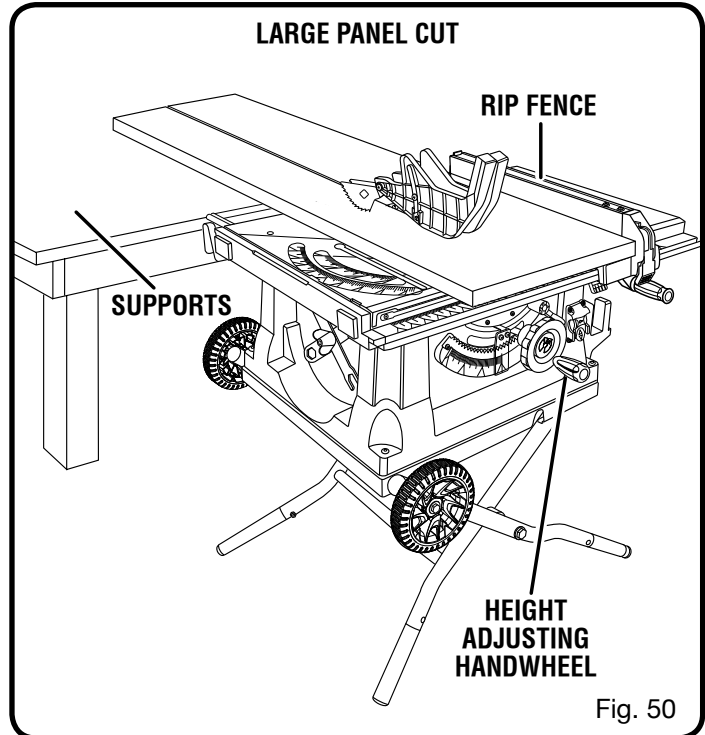
MAKING A NON-THROUGH CUT

See Figure 51.

Non-through cuts (made with a standard 10 in. blade) can be made with the grain (ripping) or across the grain (cross cut). The use of a non-through cut is essential to cutting grooves, rabbets, and dadoes. This is the only type cut that is made without the blade guard assembly installed. Make sure the blade guard assembly is reinstalled upon completion of this type of cut. Read the appropriate section which describes the type of cut in addition to this section on non-through or dado cuts. For example, if your non-through cut is a straight cross cut, read and understand the section on straight cross cuts before proceeding.

WARNING:

When making a non-through cut, the blade is covered by the workpiece during most of the cut. Be alert to the exposed blade at the start and finish of every cut to reduce the risk of personal injury.



WARNING:

Never feed wood with your hands when making any non-through cut such as rabbets or dadoes. To avoid personal injury, always use push blocks, push sticks, and featherboards.

- Unplug the saw.
- Remove the blade guard and anti-kickback pawls.
- Place riving knife in “down” position.
- Unlock the bevel locking lever.
- Adjust the bevel angle to 0°.
- Lock the bevel locking lever.
- Set the blade to the correct depth for the workpiece.
- Depending on the shape and size of the wood, use either the rip fence or miter fence.
- Plug the saw into the power source and turn the saw on.
- Let the blade build up to full speed before moving the workpiece into the blade.
- Always use push blocks, push sticks, and/or featherboards when making non-through cuts to reduce the risk of serious injury.
- When the cut is made, turn the saw off. Wait for the blade to come to a complete stop before removing the workpiece.

Once all non-through cuts are completed:

- Unplug your saw.
- Reinstall the riving knife in the “up” position then install the blade guard and anti-kickback pawls.

OPERATION

MAKING A DADO CUT

See Figure 52.

An optional dado throat plate is required for this procedure (see the *Accessories* section of this manual and check with the retailer where the table saw was purchased). All blades and dado sets must not be rated less than the speed of this tool. This saw is designed for use with a 6 in. stack dado (up to width of 5/8 in.). Do not use an adjustable dado or molding cutters on this saw.

WARNING:

Always use push blocks, push sticks, and/or featherboards when making dado cuts to avoid the risk of serious injury.

- Unplug the saw.
- Remove the blade guard, anti-kickback pawls, throat plate, and riving knife.
- Remove the blade nut, blade washer, and saw blade.

NOTE: Always store the blade washer and throat plate in a secure location.

- Mount the dado blade, according to manufacturer instructions, using the blade and chippers appropriate for the desired width of cut.
- Reinstall the blade nut.

NOTE: The blade washer may be used provided the arbor shaft extends slightly beyond the arbor nut.

- Make sure the blade nut is fully engaged and the arbor extends past a securely tightened blade nut.
- Place release lever in locked position.
- Install the dado throat plate and rotate the blade by hand to make sure it turns freely then lower the blade.
- Depending on the shape and size of the wood, use either the rip fence or miter fence.
- Turn the saw on.

NOTE: Make sure the wood does not touch the blade before you turn on the saw. Let the blade build up to full speed before feeding the workpiece into the blade.

- Position the workpiece flat on the table with the edge flush against the rip fence or miter fence and hold firmly against the saw table.
- Use a push block or push stick to move the wood through the cut past the blade. Never push a small piece of wood into the blade with your hand, always use a push stick. The use of push blocks, push sticks, and featherboards are necessary when making non-through cuts.
- When the cut is made, turn the saw off. Wait for the blade to come to a complete stop before removing the workpiece.

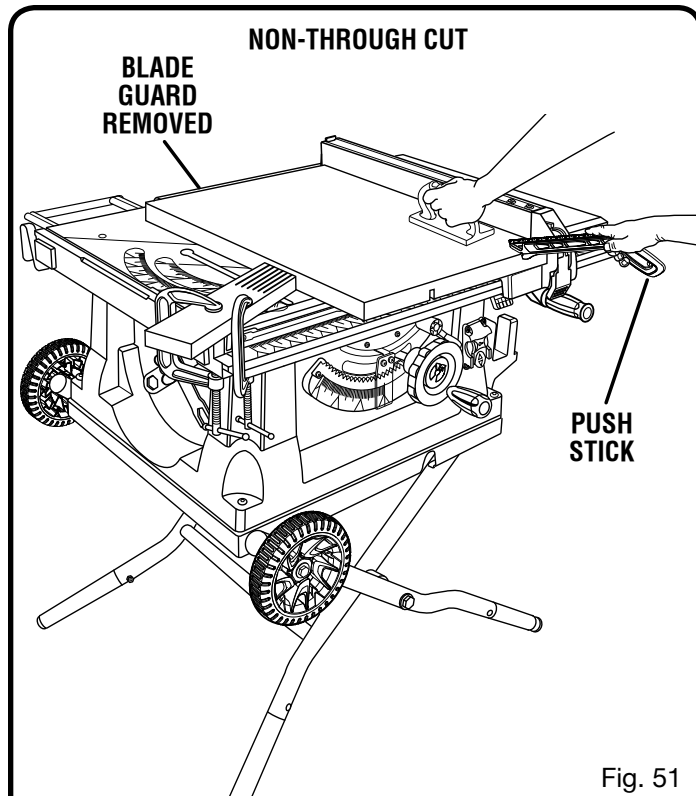


Fig. 51

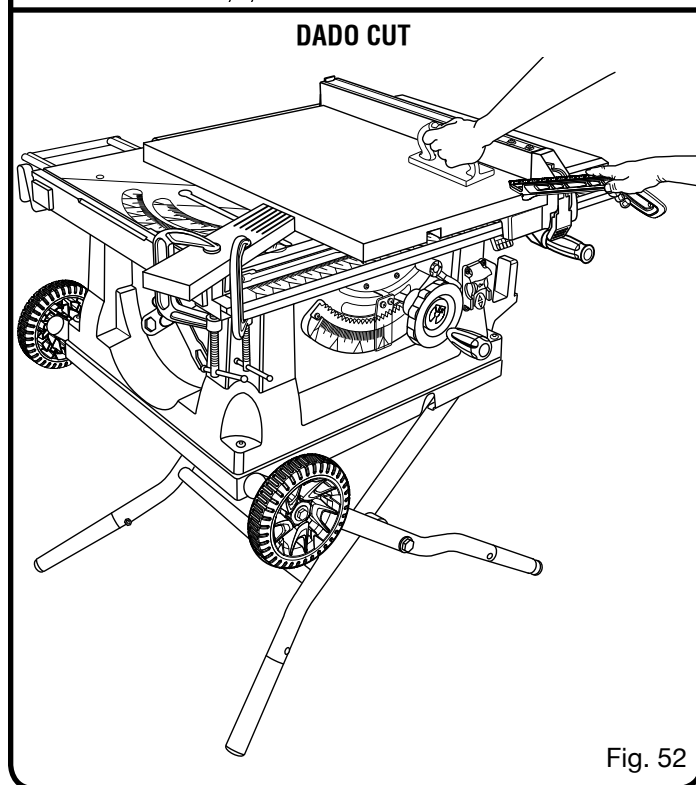


Fig. 52

Once all dado cuts are completed:

- Unplug your saw.
- Reinstall the riving knife in the "up" position then install the blade guard and anti-kickback pawls.

ADJUSTMENTS

⚠ WARNING:

Before performing any adjustment, make sure the tool is unplugged from the power supply and the switch is in the OFF position. Failure to heed this warning could result in serious personal injury.

The table saw has been adjusted at the factory for making very accurate cuts. However, some of the components might have been jarred out of alignment during shipping. Also, over a period of time, readjustment will probably become necessary due to wear.

To avoid unnecessary set-ups and adjustments, a good practice is to check your setups carefully with a framing square and make practice cuts in scrap wood before making finish cuts in good workpieces. Do not start any adjustments until you have checked with a square and made test cuts to be sure adjustments are needed.

TO REPLACE THE BLADE

See Figures 53 - 55.

Blade kerf width must be within the limits stamped on the riving knife.

- Unplug the saw.
- Remove the blade guard and anti-kickback pawls.
- Lower the saw blade and remove the throat plate.
- Make sure the bevel locking lever is locked.
- Raise the saw blade to full height.
- Insert the open end of the blade wrench onto the flats on the arbor shaft.
- Insert the closed end of the blade wrench over the blade nut. Holding both wrenches firmly, pull the outside wrench (right side) forward while pushing the inside (left side) to the back of the saw. Remove the blade nut and blade washer.
- Unlock the release locking lever and remove the blade.

To install a standard blade:

- Place the new blade on the arbor shaft (the teeth must point down toward the front of the saw to work properly).
- Place the blade washer and the blade nut over the arbor shaft. Be sure the flat side of the blade washer faces the blade and that all items are snug against the arbor housing. Make sure the blade nut is securely tightened. Do not overtighten.
- Lock the release lever.
- Rotate the blade by hand to make sure it turns freely.
- Lower the saw blade and reinstall the throat plate.

NOTE: To replace the blade with an accessory blade, follow the instructions provided with the accessory.

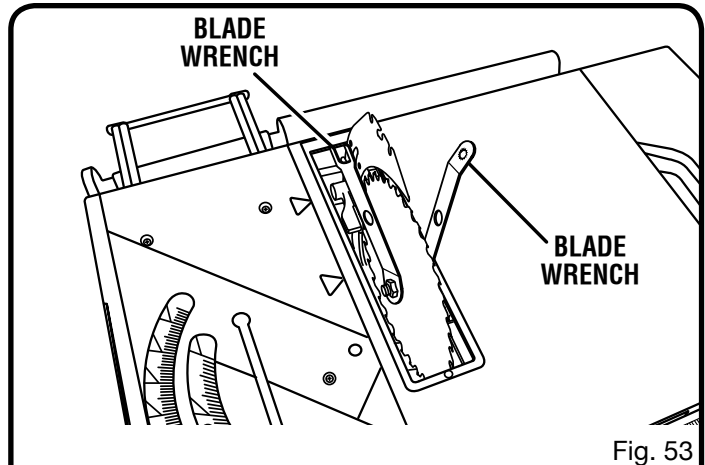


Fig. 53

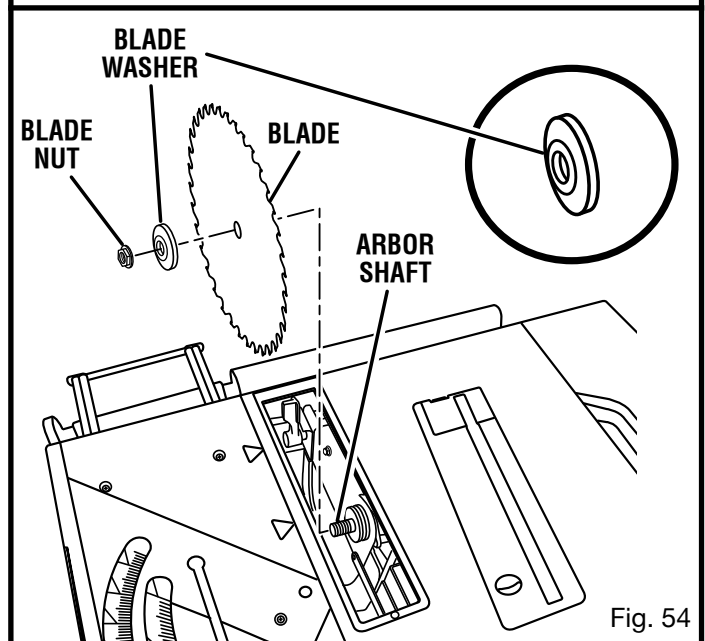


Fig. 54

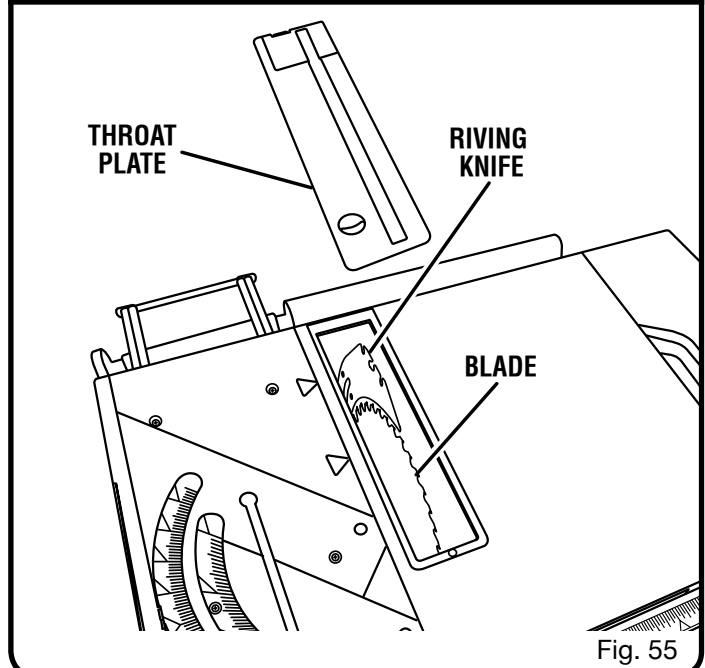


Fig. 55

ADJUSTMENTS

TO SET THE BLADE AT 0° AND 45°

See Figures 56 - 57.

The angle settings of the saw have been set at the factory and, unless damaged in shipping, should not require setting during assembly. After extensive use, they may need to be checked.

- Unplug the saw.
- Raise the blade.
- Remove the blade guard assembly.

If the blade is not perfectly vertical (0°):

- Unlock the bevel locking lever.
- Loosen the 0° adjustment screw.
- Place a combination square beside the blade on the left. The edge of the square and the saw blade should be parallel.

NOTE: Make sure that the square contacts the flat part of the saw blade, not the blade teeth.

- Lock the bevel locking lever.
- Tighten the adjustment screw. Check again for squareness and continue to adjust if needed.

If the blade is not an exact 45°:

- Unlock the bevel locking lever.
- Loosen the 45° adjustment screw.
- Place a combination square beside the blade on the left. The edge of the square and the saw blade should be parallel.

NOTE: Make sure that the square contacts the flat part of the saw blade, not the blade teeth.

- Lock the bevel locking lever.
- Tighten the adjustment screw. Check again for squareness and continue to adjust if needed.
- If needed, adjust the bevel indicator to 45°.
- Make a test cut.

The adjustment screws must be below the saw table surface so the workpiece doesn't catch on uneven edges. If unable to make this adjustment, take the product to an authorized service center.

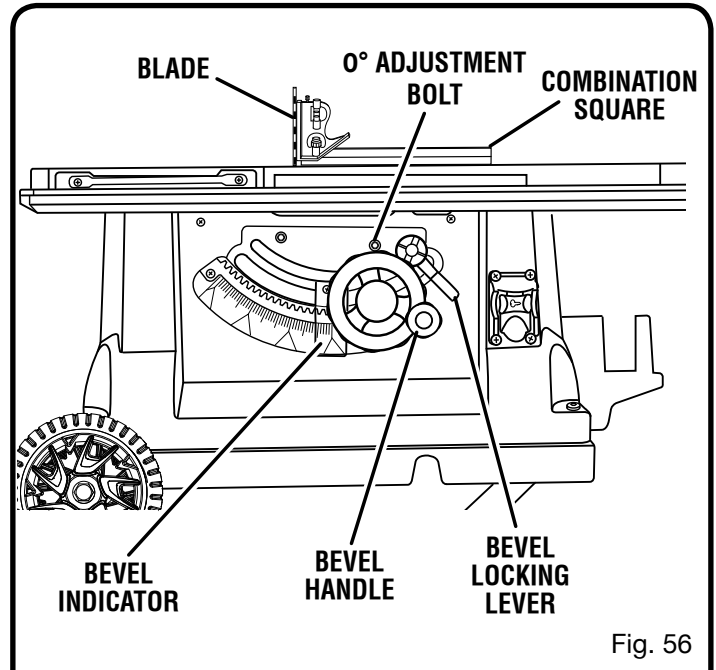


Fig. 56

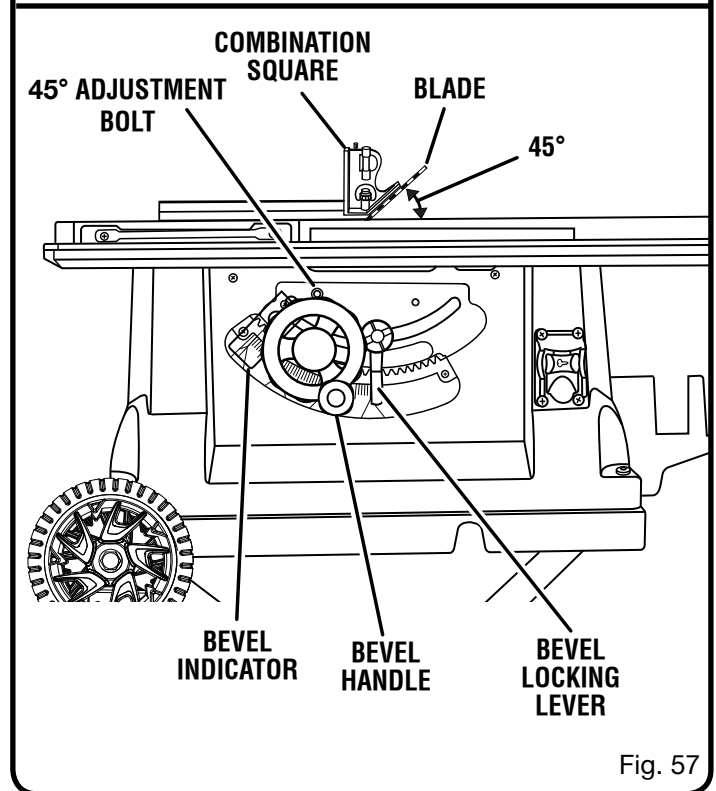


Fig. 57

ADJUSTMENTS

TO CHECK THE ALIGNMENT OF THE RIP FENCE TO THE BLADE

See Figure 58.

- Unplug the saw.
- Raise the locking lever to permit the rip fence to be moved.
- Place a framing square beside the blade and move the rip fence up to the square. Take the dimension on the rip scale.
- Move the fence back and turn the framing square 180° to check the other side.
- If the two dimensions are not the same, loosen the two screws on the fence and align it.
- Retighten the two screws.
- Make two or three test cuts on scrap wood. If the cuts are not true, repeat the process.

WARNING:

Before plugging the saw back in to make test cuts, make sure the switch is in the off position and the blade guard is in place. Failure to do so can result in serious injury.

TO ADJUST QUICK-STOP

See Figure 59.

The quick-stop is preset at the factory to stop the miter fence at exactly 0°. However, when sliding miter table adjustments are made, these adjustments may cause the quick stop to need adjusting. Check quick-stop with miter scale set at 0°. If adjustments are needed, proceed with the following steps:

- Loosen the eccentric screw holding the quick stop.
- Place the quick stop against the miter fence with miter scale set at 0°.
- Adjust eccentric screw until it holds quick-stop securely against miter fence.
- Retighten hex nut, securing eccentric screw and quick-stop.
- Check your work. If the quick stop is not at 0°, repeat above steps.

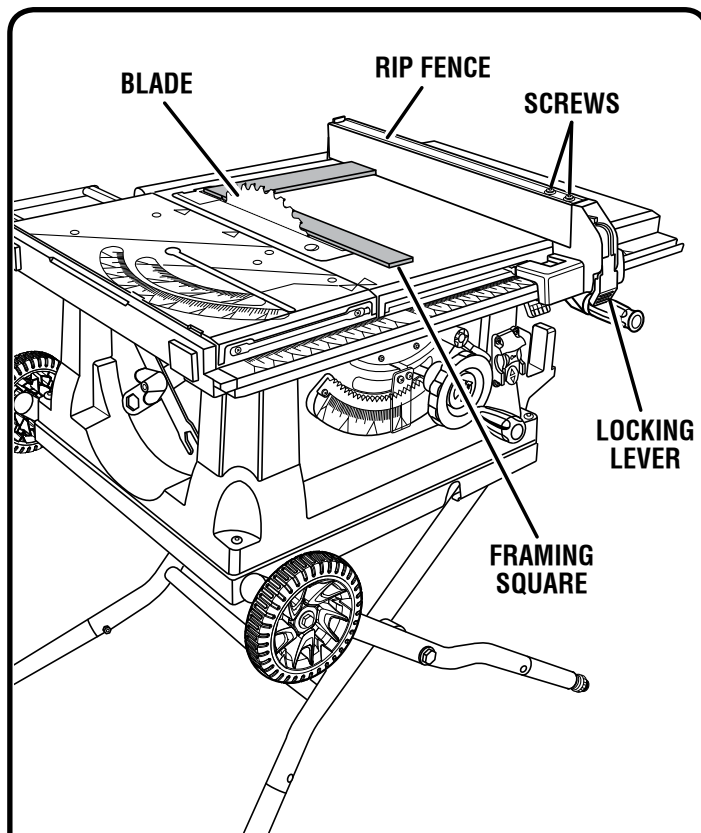


Fig. 58

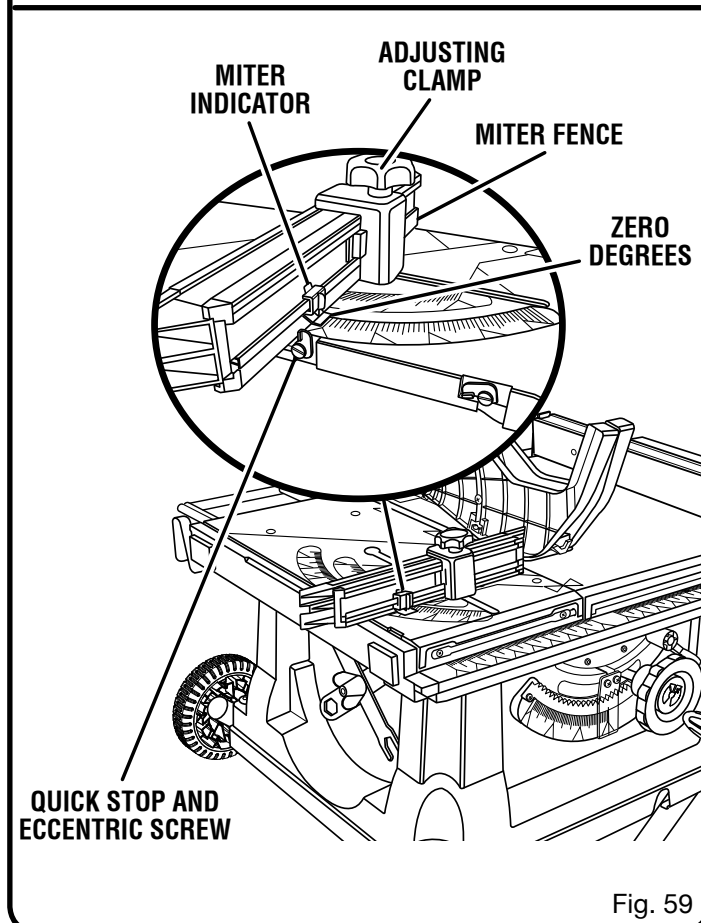


Fig. 59

MAINTENANCE

WARNING:

When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage.

WARNING:

Always wear eye protection with side shields marked to comply with ANSI Z87.1 during product operation. If operation is dusty, also wear a dust mask.

WARNING:

Before performing any maintenance, make sure the tool is unplugged from the power supply and the switch is in the off (O) position. Failure to heed this warning could result in serious personal injury.

WARNING:

Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken, or destroy plastic which may result in serious personal injury.

- Periodically check all clamps, nuts, bolts, and screws for tightness and condition. Make sure the throat plate is in good condition and in position.
- Check the blade guard assembly.
- To maintain the table surfaces, fence, and rails, periodically apply paste wax to them and buff to provide smooth functioning.
- Protect the blade by cleaning out sawdust from underneath the table and in the blade teeth. Use a resin solvent on the blade teeth.
- **Clean plastic parts only with a soft damp cloth. DO NOT** use any aerosol or petroleum solvents.

GENERAL MAINTENANCE

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

LUBRICATION

All of the bearings in this tool are lubricated with a sufficient amount of high grade lubricant for the life of the unit under normal operating conditions. Therefore, no further lubrication is required.

ACCESSORIES

The following recommended accessories are available:

089260001699 Dado Throat Plate

WARNING:

Current attachments and accessories available for use with this tool are listed above. Do not use any attachments or accessories not recommended by the manufacturer of this tool. The use of attachments or accessories not recommended can result in serious personal injury.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Cutting binds or burns work.	Blade is dull.	Replace or sharpen blade.
	Work is fed too fast.	Slow the feed rate.
	Wood is warped.	Replace the wood. Always cut with convex side to table surface.
	Rip fence is misaligned.	Check and adjust the rip fence. Align the rip fence.
Wood edges away from rip fence when ripping.	Blade not properly sharpened or set.	Resharpener or set blade.
Sliding miter table assembly does not move smoothly.	Miter base or slides improperly adjusted.	See page 27 for adjustments to sliding miter table assembly.
Saw does not make accurate 90° or 45° cuts.	Positive stops inside cabinet need adjusting (bevel cuts).	Adjust positive stops.
	Miter fence is misaligned (miter cuts).	Adjust the miter fence.
Height/bevel adjusting hand-wheel is hard to turn.	Gears or screw post inside cabinet are clogged with saw dust.	Clean the gears or screw post.
Saw does not start.	Motor cord or wall cord is not plugged in.	Plug in motor cord or wall cord.
	Circuit fuse is blown.	Replace circuit fuse.
	Circuit breaker is tripped.	Reset circuit breaker.
	Cord or switch is damaged.	Have the cord or switch replaced at your nearest authorized service center.
Blade makes poor cuts.	Blade is dull or dirty.	Clean, sharpen, or replace blade.
	Blade is wrong type for cut being made.	Replace with correct type.
	Blade is mounted backwards.	Remount blade.
Blade does not lower when turning height/bevel adjusting handwheel.	Locking lever is not at full down position.	Move locking lever down.
Motor labors in rip cut.	Blade not proper for rip cut.	Change blade; rip blade typically has fewer teeth.

TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Excess vibration.	Blade is out of balance.	Replace blade.
	Blade is damaged.	Replace blade.
	Saw is not mounted securely.	Tighten all hardware.
	Work surface is uneven.	Reposition on flat surface. Adjust legs of leg stand.
	Blade is warped.	Check saw blade installation. Replace blade if necessary.
Rip fence does not move smoothly.	Rip fence not mounted correctly.	Remount the rip fence.
	Rails are dirty or sticky.	Clean and wax rails.
	Clamp screw is out of adjustment.	Adjust clamp screw counterclockwise.
Rip fence does not lock at rear.	Clamp screw is out of adjustment.	Adjust clamp screw clockwise.

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