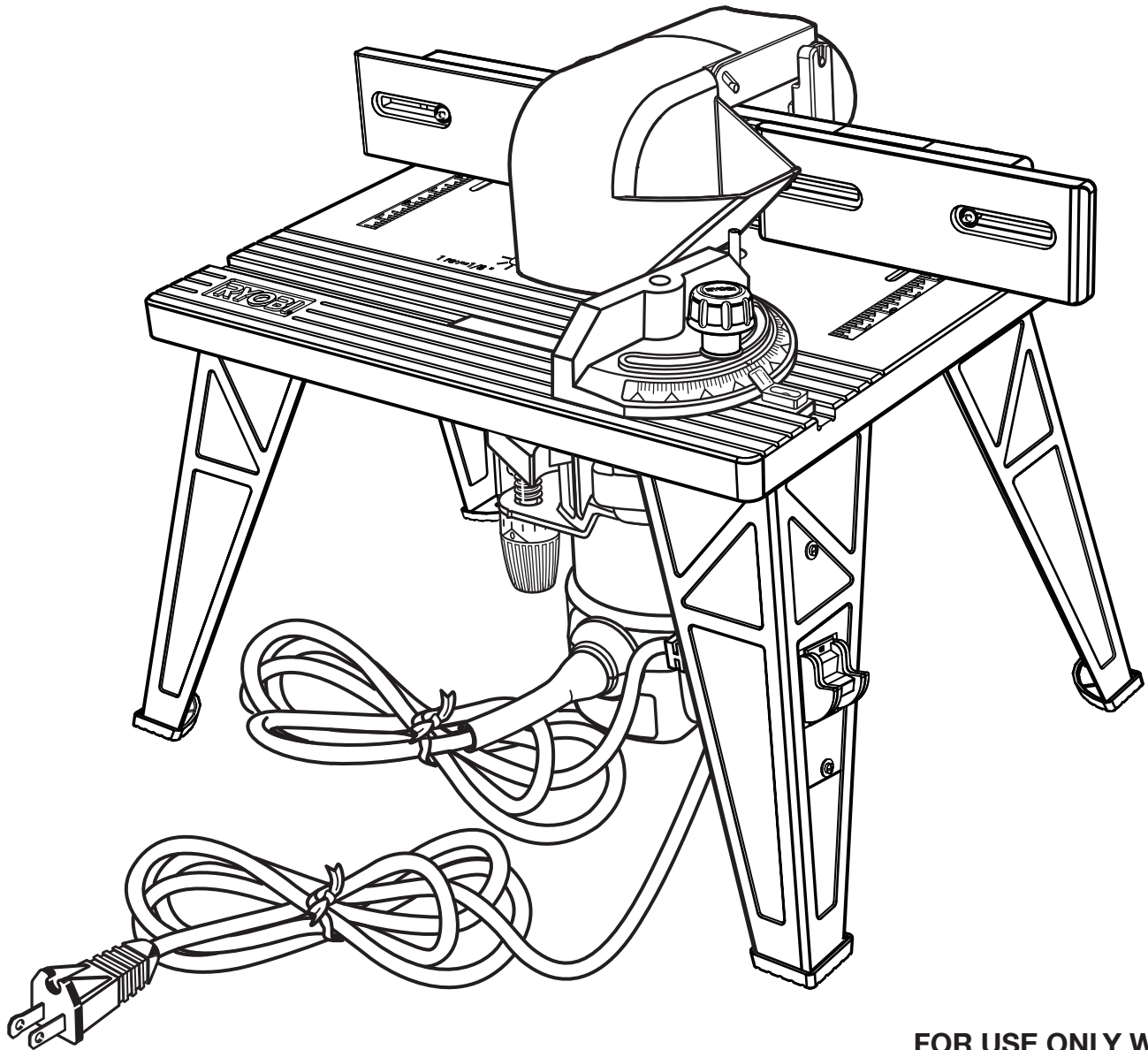




OPERATOR'S MANUAL

ROUTER TABLE

RT102



**FOR USE ONLY WITH
THE RYOBI R163
ROUTER**

Your router table 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

TABLE OF CONTENTS

■ Introduction	2
■ Warranty	2
■ General Safety Rules	3-4
■ Specific Safety Rules.....	4
■ Symbols.....	5-6
■ Electrical	7
■ Features.....	8
■ Assembly	9-13
■ Operation.....	14-17
■ Maintenance.....	17
■ Parts Ordering / Service	Back Page

INTRODUCTION

This product 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 TWO YEAR WARRANTY AND 30 DAY EXCHANGE POLICY

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

30-DAY EXCHANGE POLICY: During the first 30 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 two years from the date of purchase. With the exception of batteries, power tool accessories are warranted for ninety (90) days. Batteries are warranted for two 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 two 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 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 tool 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, master switches, or by removing starter keys.
- **DON'T FORCE THE TOOL.** It will do the job better and safer at the feed rate for which it was designed.
- **USE THE RIGHT TOOL.** Do not force the tool or attachment to do a job for which it was not designed.
- **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, neckties, or jewelry that 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 is safer than using your hand and frees both hands to operate the tool.
- **DO NOT 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 from power source.
- **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 result in injury.
- **NEVER STAND ON TOOL.** Serious injury could occur if the tool is tipped.
- **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.
- **NEVER LEAVE TOOL RUNNING UNATTENDED. TURN THE POWER OFF. DO NOT LEAVE TOOL UNTIL IT COMES TO A COMPLETE STOP.**
- **USE THE RIGHT DIRECTION OF FEED.** Feed work into a blade or cutter against the direction of rotation of blade or cutter only.
- **PROTECT YOUR LUNGS.** Wear a face or dust mask if the operation is dusty.
- **PROTECT YOUR HEARING.** Wear hearing protection during extended periods of operation.
- **DO NOT ABUSE CORD.** Never carry tool by the cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
- **USE OUTDOOR EXTENSION CORDS.** When tool is used outdoors, use only extension cords marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electric shock.
- **NEVER USE IN AN EXPLOSIVE ATMOSPHERE.** Normal sparking of the motor could ignite fumes.

GENERAL SAFETY RULES











- **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.
- **POLARIZED PLUGS.** To reduce the risk of electric shock, this tool has a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install the proper outlet. Do not change the plug in any way.
- **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.
- **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.

SPECIFIC SAFETY RULES

- **FOR YOUR OWN SAFETY,** read this RT102 Router Table Operator's Manual and the R163 Router Manual before operating the router or using the router table.
- **ALWAYS USE THE CUTTER GUARD.**
- **WHEN USING THE ROUTER ON THE ROUTER TABLE,** the router must be plugged into the router table switch outlet.
- **KEEP HANDS AWAY FROM CUTTING AREA.** Do not reach underneath the table or in the cutting path with your hands or fingers at any time while the tool is connected to a power source.
- **DO NOT USE AWKWARD HAND POSITIONS.**
- **FIRMLY CLAMP OR BOLT THE ROUTER TABLE TO A WORK SURFACE** so that the router table surface is approximately hip height.
- **INSPECT FOR AND REMOVE ALL NAILS FROM LUMBER BEFORE ROUTING.** Following this rule will reduce the risk of serious personal injury.
- **IF THE POWER SUPPLY CORD IS DAMAGED,** it must be replaced only by the manufacturer or by an authorized service center to avoid risk.
- **SAVE THESE INSTRUCTIONS.** Refer to them frequently and use them to instruct others who may use this tool. If you loan someone this tool, loan them these instructions also.




SYMBOLS

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

SYMBOL	NAME	DESIGNATION/EXPLANATION
V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency (cycles per second)
W	Watt	Power
min	Minutes	Time
~	Alternating Current	Type of current
≡	Direct Current	Type or a characteristic 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
	Wet Conditions Alert	Do not expose to rain or use in damp locations.
	Read The 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 safety goggles or safety glasses with side shields and, as necessary, a full face shield when operating this product.
	Safety Alert	Precautions that involve your safety.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	No Hands Symbol	Failure to keep your hands away from the blade will result in serious personal injury.
	Hot Surface	To reduce the risk of injury or damage, avoid contact with any hot surface.

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.
	CAUTION:	(Without Safety Alert Symbol) Indicates a situation that may result in property damage.

SERVICE

Servicing requires extreme care and knowledge and should be performed only by a qualified service technician. For service we suggest you return the product to the nearest **AUTHORIZED SERVICE CENTER** for repair. When servicing, use only identical replacement parts.



WARNING:

To avoid serious personal injury, do not attempt to use this product until you read thoroughly and understand completely the operator's manual. If you do not understand the warnings and instructions in the operator's manual, do not use this product. Call Ryobi customer service for assistance.



WARNING:



The operation of any power tool can result in foreign objects being thrown into your eyes, which can result in severe eye damage. Before beginning power tool operation, always wear safety goggles or safety glasses with side shields and, when needed, a full face shield. We recommend Wide Vision Safety Mask for use over eyeglasses or standard safety glasses with side shields. Always use eye protection which is marked to comply with ANSI Z87.1.

SAVE THESE INSTRUCTIONS

ELECTRICAL

DOUBLE INSULATION

Double insulation is a concept in safety in electric power tools, which eliminates the need for the usual three-wire grounded power cord. All exposed metal parts are isolated from the internal metal motor components with protecting insulation. Double insulated tools do not need to be grounded.

WARNING:

The double insulated system is intended to protect the user from shock resulting from a break in the tool's internal insulation. Observe all normal safety precautions to avoid electrical shock.

NOTE: Servicing of a product with double insulation requires extreme care and knowledge of the system and should be performed only by a qualified service technician. For service, we suggest you return the product to your nearest authorized service center for repair. Always use original factory replacement parts when servicing.

ELECTRICAL CONNECTION

This product has a precision-built electric motor. It should be connected to a **power supply that is 120 volts, 60 Hz, AC only (normal household current)**. 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 product does not operate when plugged into an outlet, double-check the power supply.

EXTENSION CORDS

When using a power tool at a considerable distance from a power source, be sure to use an extension cord that has the capacity to handle the current the product will draw. An undersized cord will cause a drop in line voltage, resulting in overheating and loss of power. Use the chart to determine the minimum wire size required in an extension cord. Only round jacketed cords listed by Underwriter's Laboratories (UL) should be used.

When working outdoors with a product, use an extension cord that is designed for outside use. This type of cord is designated with "WA" on the cord's jacket.

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

**Ampere rating (on product data plate)

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

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 the product with a damaged cord since touching the damaged area could cause electrical shock resulting in serious injury.

FEATURES

PRODUCT SPECIFICATIONS

Table Dimensions13 in. x 18 in.
Maximum Cutter Diameter1-15/16 in.
Fence Length..... 18 in.

Miter Slot3/8 in. x 5/8 in. x 18 in.
Rating 120 V, AC only, 60 Hz
Net Weight..... 16 lbs.

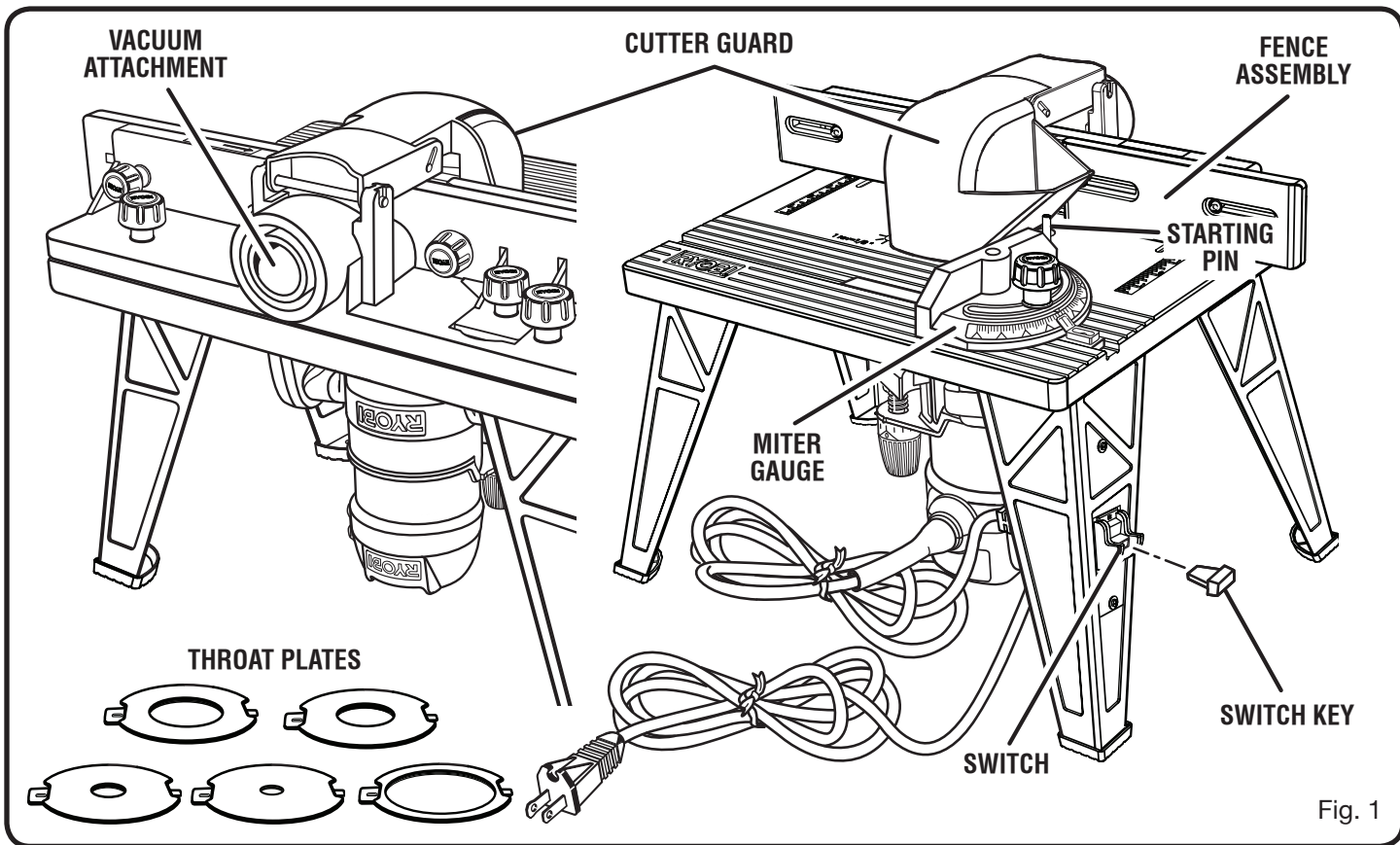


Fig. 1

KNOW YOUR ROUTER TABLE

See Figure 1.

The safe use of this product requires an understanding of the information on the product 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.

CUTTER GUARD

The cutter guard on the fence assembly provides a barrier to protect the operator from contact with the cutter and is designed to stay in contact with the workpiece.

FENCE ASSEMBLY

The fence assembly provides an adjustable surface to support and guide the work. Molded into the fence assembly is the vacuum attachment.

MITER GAUGE

A miter gauge is used for mitered routing and to help support wider pieces.

STARTING PIN

When you are unable to use the fence for a guide because the workpiece is odd-shaped or too small, use the starting pin for a guide. Only use piloted cutters when using the starting pin.

SWITCH/SWITCH KEY

The router table has a conveniently located toggle switch. In addition, the router table is equipped with a switch key. You must insert the key to turn the switch on. If you remove the key during operation, you can turn the switch off, but you may not turn it on again until you replace the key.

THROAT PLATES

Five throat plates are included with the router table. The throat plate provides a stable surface around the cutter and prevents objects from falling through the throat and damaging the spindle.

VACUUM ATTACHMENT

The dust ports molded into the fence will accept either a 1-1/4 in. or 2-1/2 in. vacuum attachment.

ASSEMBLY

UNPACKING

This product requires assembly.

- Carefully remove the product and any accessories from the box. Make sure that all items listed in the packing list are included.
- Inspect the product carefully to make sure no breakage or damage occurred during shipping.
- Do not discard the packing material until you have carefully inspected and satisfactorily operated the product.
- 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. Failure to heed this warning could result in serious personal injury.

⚠ WARNING:

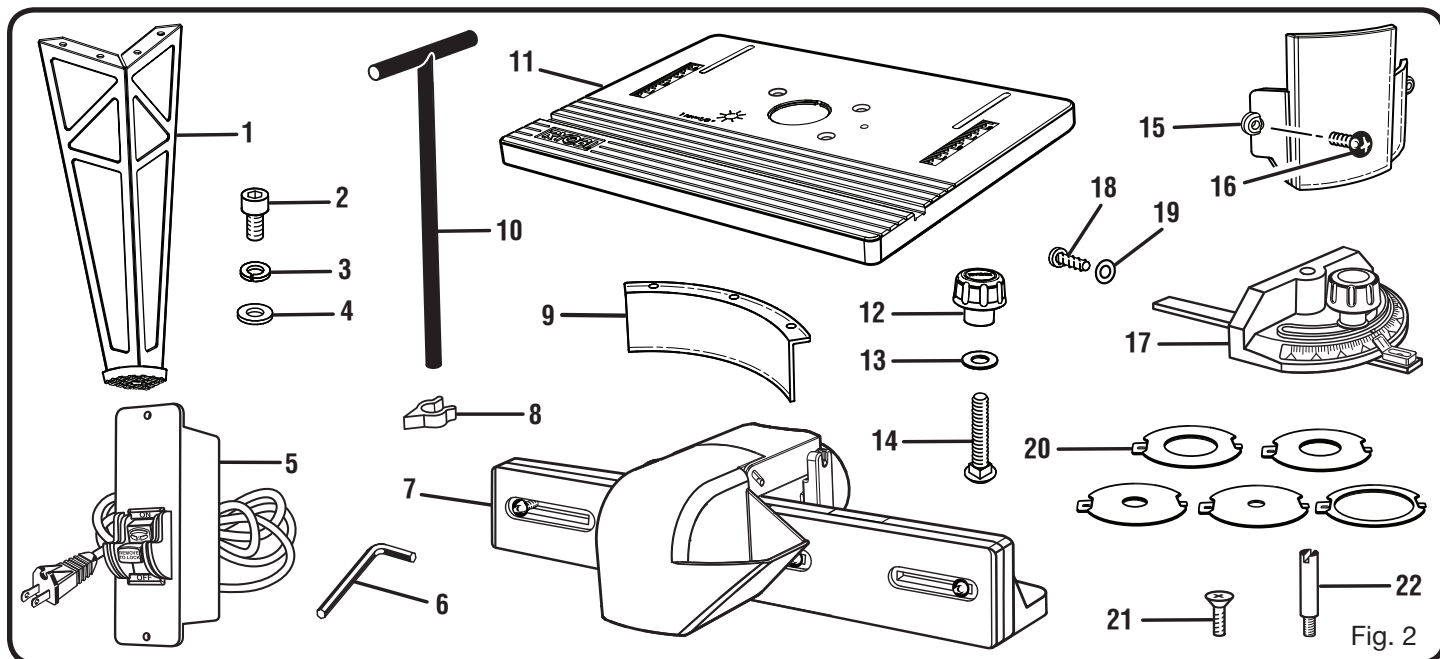
Do not attempt to modify this product or create accessories not recommended for use with this product. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious personal injury.

⚠ 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:

The undertable guard and router guard must be securely in place before using the router table. Failure to do so could result in serious personal injury.



PACKING LIST

- | | |
|---|---|
| <ul style="list-style-type: none"> 1. Table leg (4) 2. Socket head screw (19) 3. Lock washer (16) 4. Flat washer (6 mm) (19) 5. Switch box assembly (1) 6. Hex key (1) 7. Fence assembly (1) 8. T-handle wrench pointer (1) 9. Under table guard (1) 10. T-wrench (1) 11. Router table (1) | <ul style="list-style-type: none"> 12. Fence lock knob (2) 13. Fence lock knob washer (2) 14. Carriage bolt (2) 15. Router guard (1) 16. Guard screw (2) 17. Miter gauge (1) 18. Pan head screw (2) 19. Washer (4 mm) (2) 20. Throat plate (5) 21. Flat head screw (3) 22. Starting pin (1) 23. Operator's Manual (not shown) |
|---|---|

ASSEMBLY

⚠ WARNING:

The router table should never be connected to a power supply when you are assembling parts, making adjustments, installing or removing cutters, cleaning, or when not in use. Disconnecting the router table will prevent accidental starting that could cause serious personal injury.

ASSEMBLING THE ROUTER TABLE

Assembling the router table involves attaching the legs, the under table guard, the switch box, the fence assembly, and installing the miter gauge to the router table.

ATTACHING THE LEGS

See Figure 3.

- Place router table upside down on a flat, level surface with the front edge closest to you.
- Place each leg in a corner of the table.

NOTE: Two of the legs have been keyed for proper placement. With the table surface upside down, place the leg with six holes in the front left corner of the table and the leg with five holes in the front right corner of the table to align with the tabs in the table. This will ensure proper orientation of warning labels and switch. The remaining two legs with four holes each attach to the rear of the table.

- Align the four holes in the legs with the four corresponding threaded holes in the table.
- Use the hex key to secure each leg with four socket head screws and lock washers and 6 mm flat washers.

ATTACHING THE SWITCH BOX

See Figure 4.

- Place the router table upside down on a flat surface.
- Hold the switch box so that the words **ON** and **OFF** on the toggle switch are upside down.
- Insert the switch box through the cutout in the left front leg.
- Align the two small holes in the mounting tabs with the two small holes in the leg.
- Use a screwdriver to secure the switch box with two pan head screws and two 4 mm flat washers.

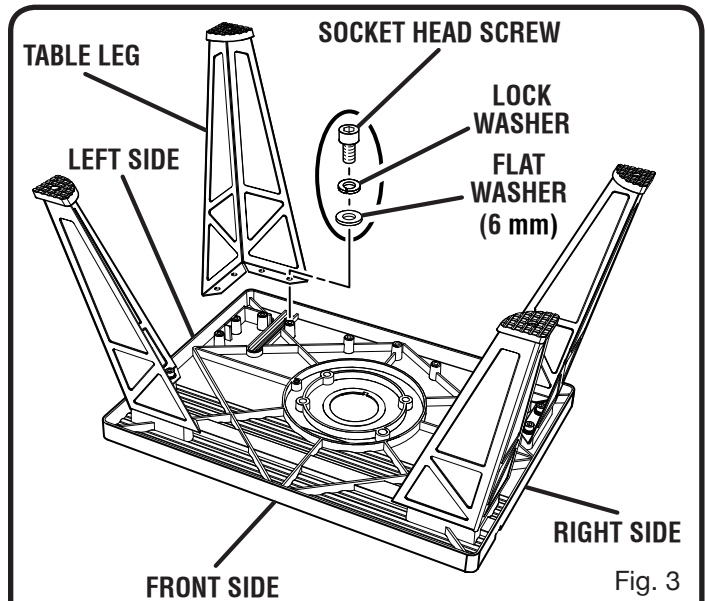


Fig. 3

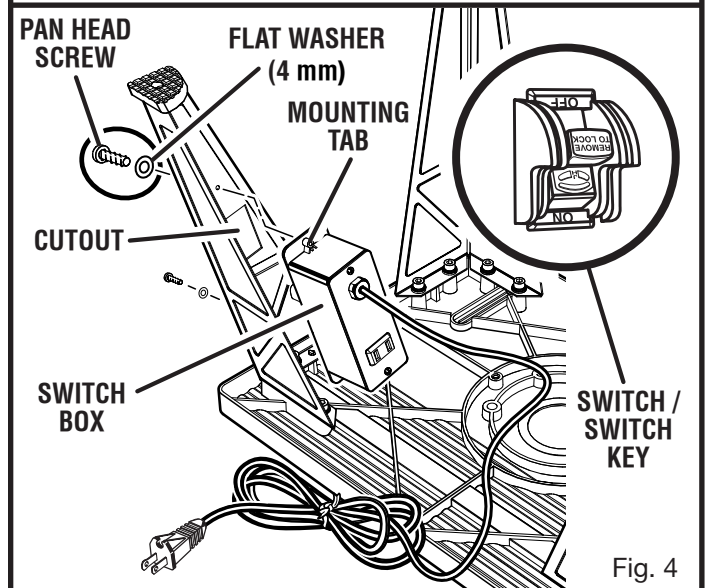


Fig. 4

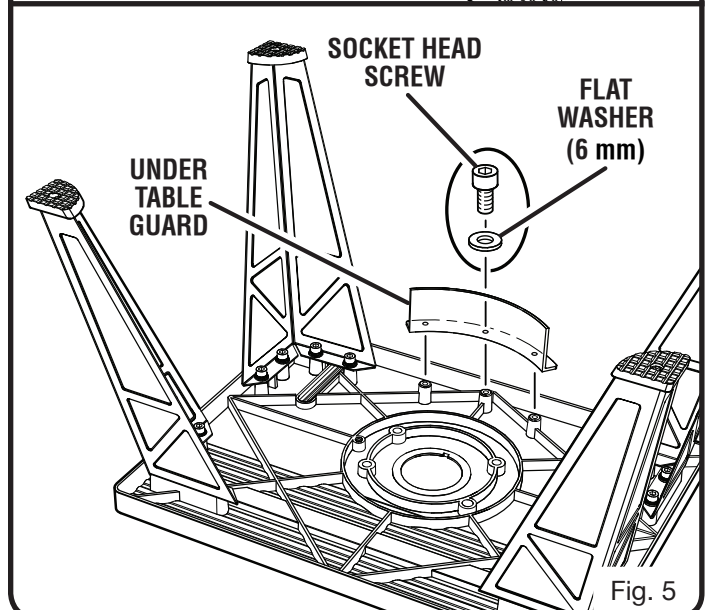


Fig. 5

ASSEMBLY

ATTACHING THE UNDER TABLE GUARD

See Figure 5.

- Place the router table upside down on a flat surface.
- Position the under table guard around the throat of the table.
- Align the three holes of the guard with the threaded holes in the table.
- Use the hex key to secure the under table guard with three socket head screws and three 6 mm flat washers.

ATTACHING THE FENCE ASSEMBLY

See Figure 6.

- Place the router table right side up with the back edge closest to you.
- Insert the carriage bolts through the slot in the router table and through the holes in the fence assembly.
- Slide the fence lock knob washer over the carriage bolts.
- Install the fence lock knobs over the carriage bolts.
- Tighten the fence lock knobs.

ATTACHING THE VACUUM HOSE

See Figure 7.

The dust ports molded into the fence will accept either a 1-1/4 in. or 2-1/2 in. vacuum attachment.

INSTALLING THE MITER GAUGE

See Figure 8.

With the router table right side up, and the front edge closest to you, place the miter gauge bar in the slot near the front of the table with the pointer on the right.

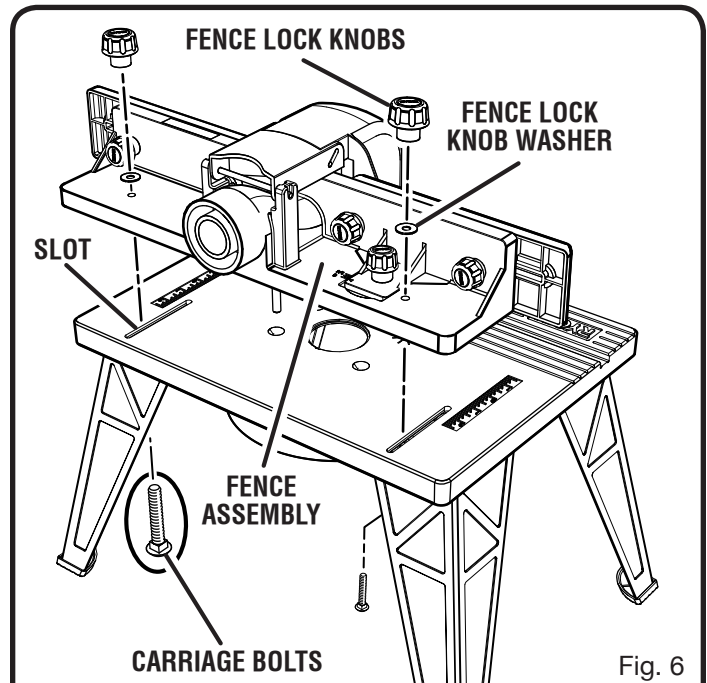


Fig. 6

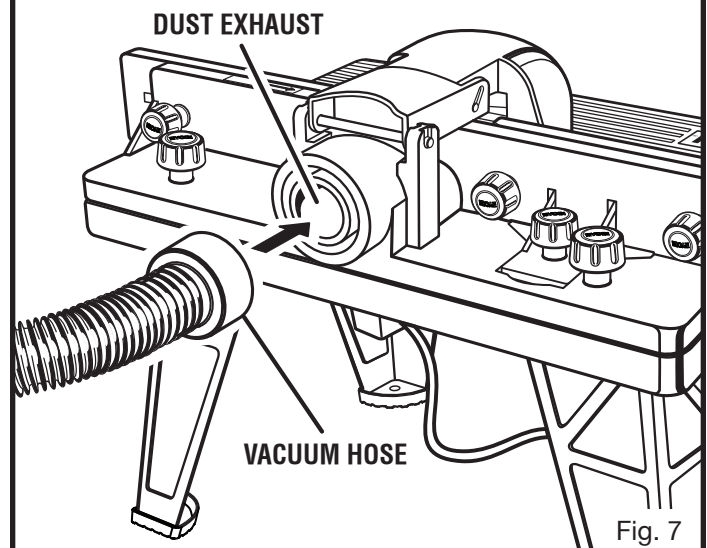


Fig. 7

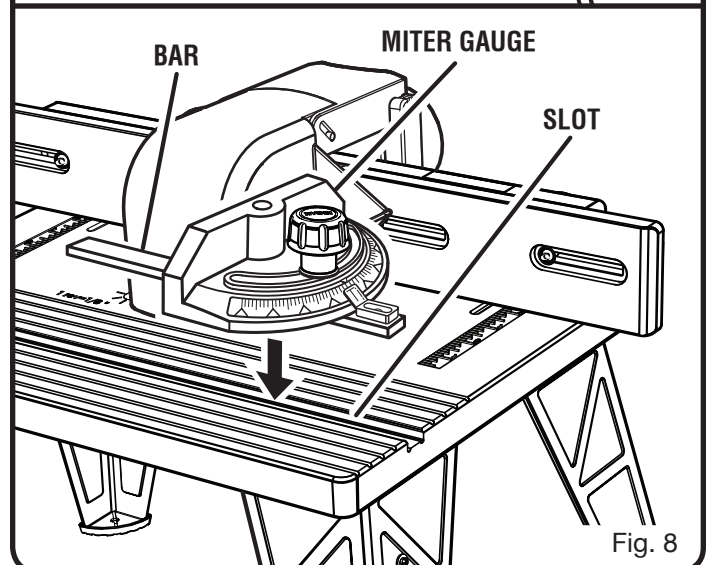


Fig. 8

ASSEMBLY

ATTACHING THE ROUTER GUARD TO THE ROUTER

See Figure 9.

- Place the router guard on the back of the router.
- Align the slots in the guard with the holes in the router.
- Secure the router guard to the router with the two guard screws.

ATTACHING THE ROUTER TO THE TABLE

See Figure 10.

Attach the router to the router table after you have assembled the table and installed the router guard.

- Place the router table right side up with the front edge closest to you.
- Be sure the table is stable and rests on all four legs.
- Hold the router upside down so that the back of the router faces you.
- Align the holes in the center of the table with the holes in the router.

NOTE: To attach router, use the two right holes and the back left hole.

- Hold the router with one hand and securely tighten each of the flat head screws with the other hand.

MOUNTING THE TABLE TO A WORK TABLE

See Figures 11 - 12.

- Place the router table right side up on a sturdy work surface; e.g., work stand, workbench, counter top.
- Mark the holes with a pencil.
- Remove the router table.
- Drill four holes through the work surface.
- Place the router table back on the work surface, aligning the holes in the table legs with the holes in the work surface.

NOTE: Position the router table surface at approximately hip height.

- Insert four bolts (not included, 1/4-20 recommended) and tighten securely with flat washers, lock washers, and hex nuts (not included).

NOTE: If you plan to transport the router table to different locations, we recommend that you attach it permanently to a mounting board that you can easily clamp to a work table.

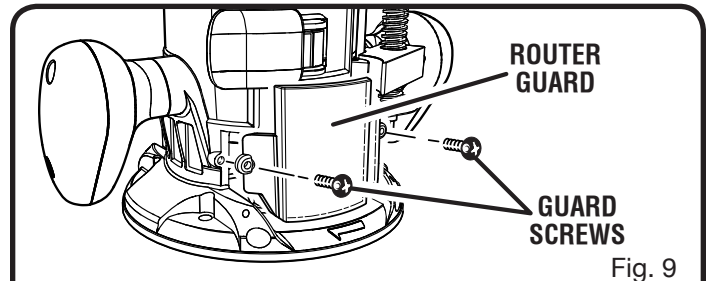


Fig. 9

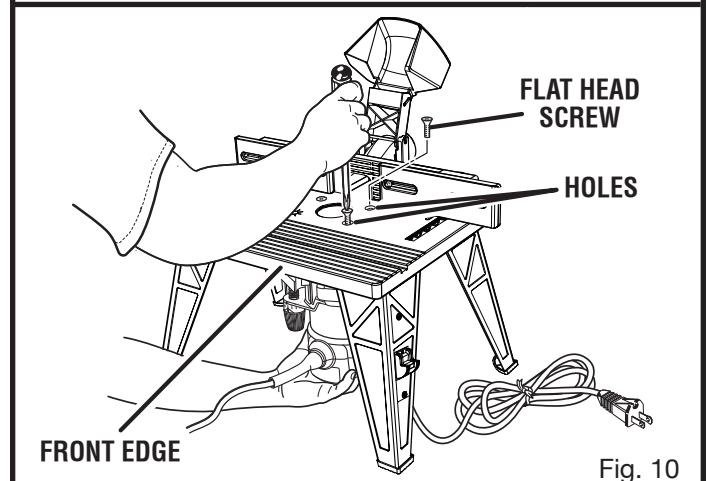


Fig. 10

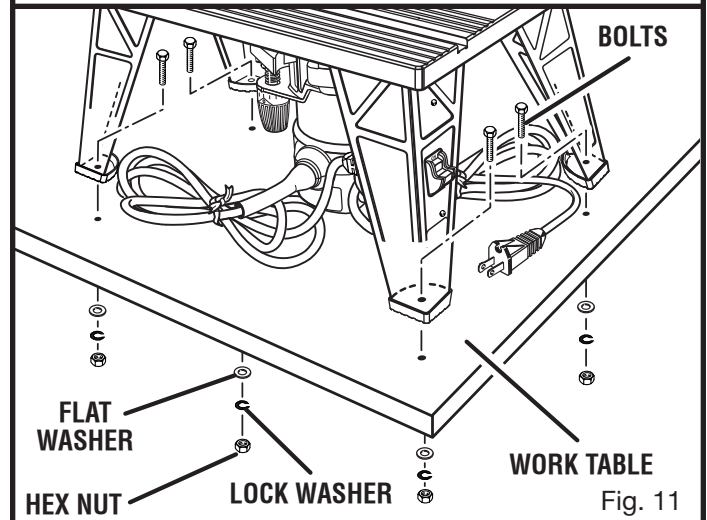


Fig. 11

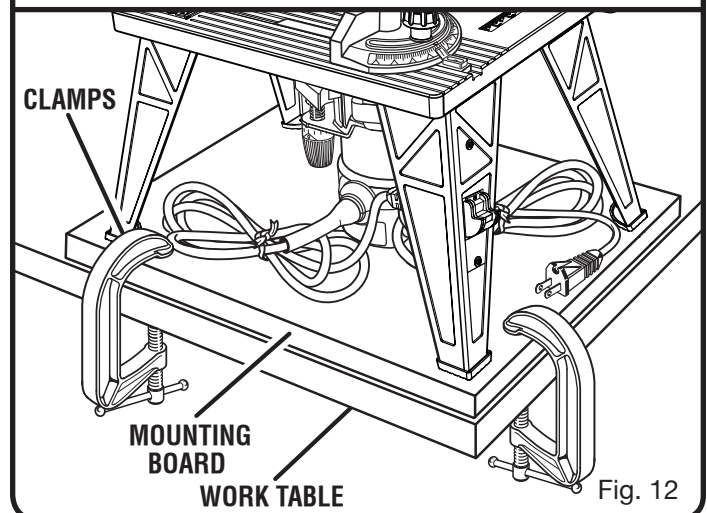


Fig. 12

ASSEMBLY

INSERTING AND REMOVING THROAT PLATES

See Figures 13 - 16.

The throat plate provides a stable surface around the cutter and prevents objects from falling through the throat plate and damaging the spindle.

The proper size throat plate depends on the size and shape of the cutter. When inserted, the throat plate opening should be within approximately 1/4 in. (6.4 mm) of the outermost edge of the cutter.

Follow these directions to insert the throat plates:

- Position the throat plate over the opening in the router table.

⚠ WARNING:

Make sure the router and router table are disconnected from the power supply. Install the bit into the collet as instructed in the router manual. Lower the bit below the surface of table before installing a throat plate. Insert the throat plate as described, raise the bit to the desired depth of cut, and reconnect the router and router table to the power supply.

- Align the large tab opposite the slot in the table and insert it under the table. Then push the small tab into the slot.
- Rotate the throat plate 180° until the raised portion on the large tab is in the table slot.

Follow these instructions to remove the throat plates:

- Use a small tool to depress the large tab until the raised portion clears the underside of the table and rotate it out of the slot.
- Continue to rotate the throat plate until the small tab is in the slot. The throat plate can now be removed.

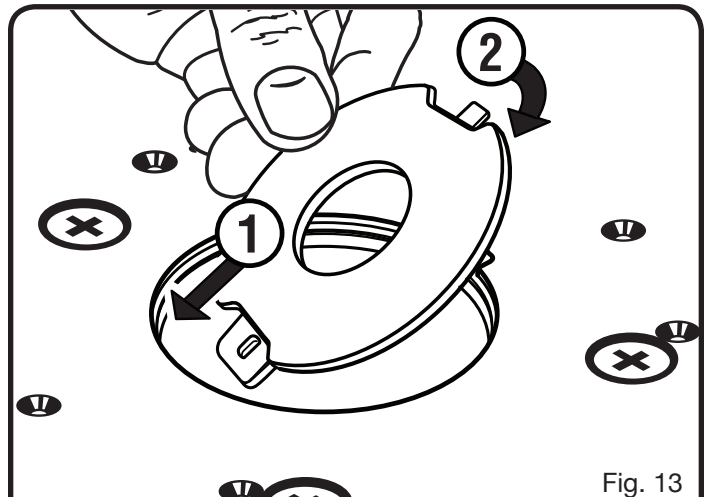


Fig. 13

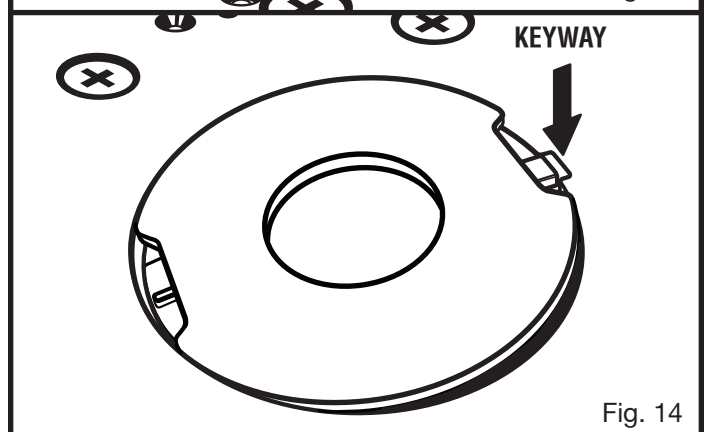


Fig. 14

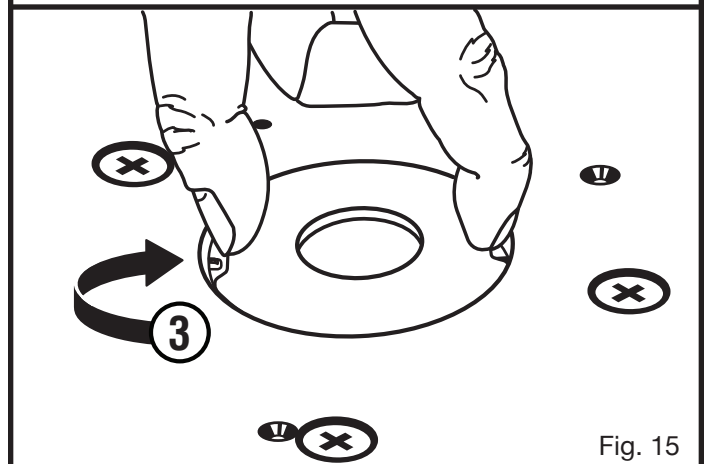


Fig. 15

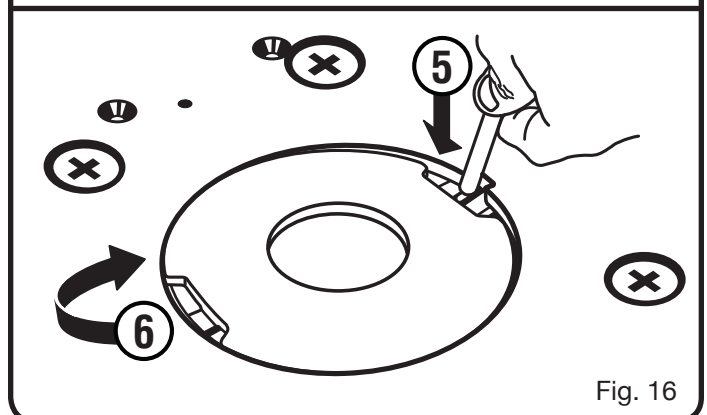


Fig. 16

OPERATION

WARNING:

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

WARNING:

Always wear safety goggles or safety glasses with side shields when operating power tools. 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 product. The use of attachments or accessories not recommended can result in serious personal injury.

APPLICATIONS

You may use this product for the purposes listed below:

- Table mounted dado and mortise operations in wood and wood composition materials
- Fence guided edging operations for cabinetry and picture framing on wood and wood composition materials
- Piloted cutter operations using the starting pin for edging patterned surfaces on wood and wood composition materials

WARNING:

The direction of feed for the workpiece is always against the sharp edges of the cutter and therefore into the rotation of the cutter. Failure to heed this warning can result in serious personal injury.

WARNING:

Failure to unplug the router and router table could result in accidental starting causing serious injury.

WARNING:

To prevent damage to the spindle or spindle lock, always allow the motor to come to a complete stop before engaging the spindle lock.

WARNING:

Use this router table only with a Ryobi R163 router. Do not attempt to use any other router with this table. Failure to heed this warning could result in improper operation of the tool and serious personal injury.

WARNING:

If you are changing a cutter immediately after use, be careful not to touch the cutter or collet with your hands or fingers. They will get burned because of the heat buildup from cutting. Always use the wrench provided.

WARNING:

When operating the router with the router table, the router must only be plugged into and controlled by the router table switched outlet. To reduce the risk of serious personal injury, never connect the table mounted router into another power source.

WARNING:

The router or router table should never be connected to a power supply when you are assembling parts, making adjustments, installing or removing cutters, cleaning, or when not in use. Disconnecting the router and router table will prevent accidental starting that could cause serious personal injury.

OPERATION

INSERTING/REMOVING CUTTERS

See Figure 17.

- Unplug the router table.
- Remove the screws from the router guard.
- Remove the router guard from the router.

To install the bit:

- Push the spindle lock in and hold into place.

NOTE: To make sure the spindle is locked, depress the spindle lock and turn slowly until the spindle locks into place and stops turning.

- Loosen the collet nut and remove the bit.
- Insert the bit until it is approximately 1/8 in. to 1/4 in. away from the collet nut face.

NOTE: Make sure that the collet always clamps the shank (non-cutting end) of the bit.

- Tighten the collet nut securely by turning it clockwise with the wrench provided.
- Release the spindle lock.

To remove the bit:

- Push the spindle lock in holding it into place.
- Loosen the collet nut and remove the bit.
- Release the spindle lock.
- Return the router guard to its proper position.
- Secure the router guard by inserting and tightening the two screws previously removed.

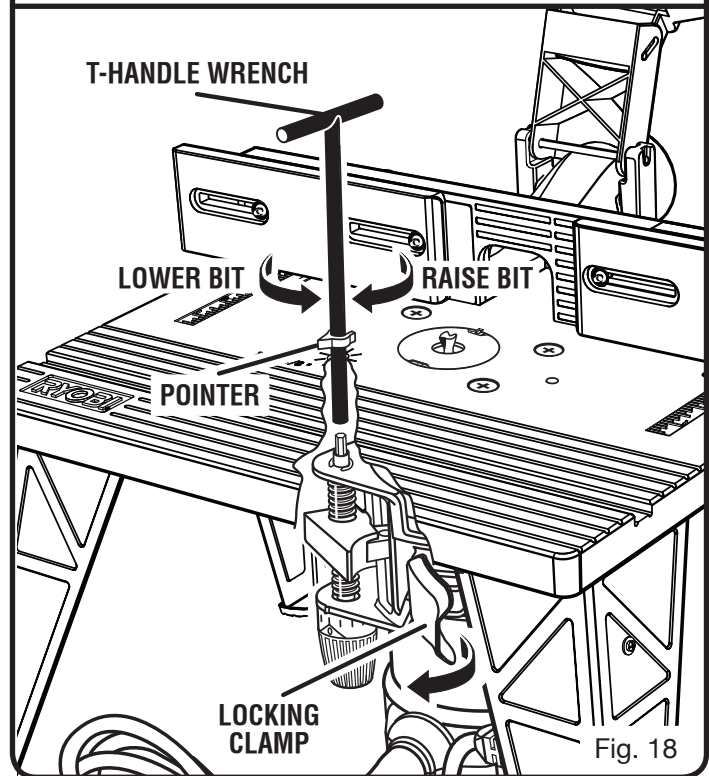
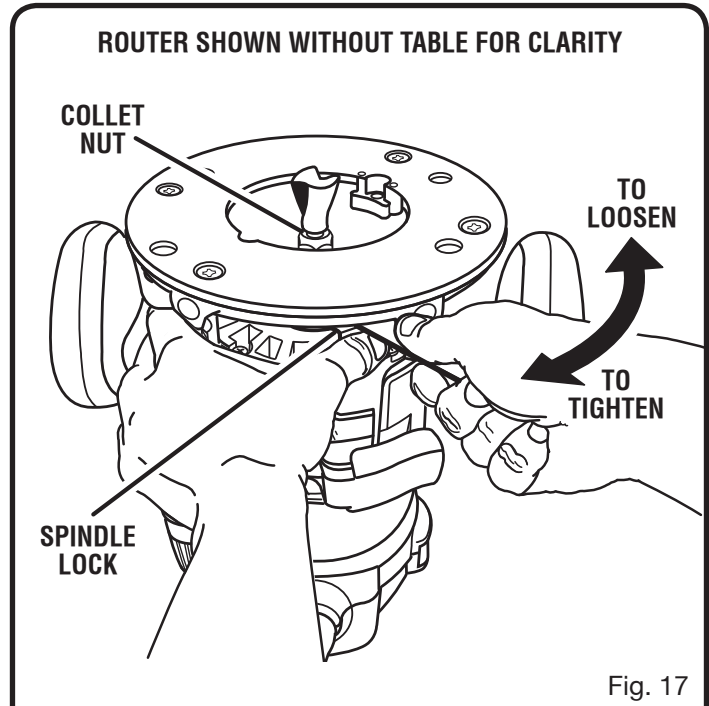
ADJUSTING DEPTH OF CUT

See Figure 18.

We recommend that cuts be made at a depth not exceeding 1/8 in. (3 mm) and that several passes be made to reach depths of cut greater than 1/8 in. (3 mm).

- Unplug the router table.
- Unlock the locking clamp.
- Insert the T-handle wrench into the hole in the router table.
- Align the T-handle wrench pointer with the desired tick mark on the table.
- Turn wrench until router bit reaches the desired depth of cut. Each tick mark equals 1/64 in.
- Lock the locking clamp securely after desired depth of cut is reached.

NOTE: When you use certain cutters, you may need to remove the clear plastic subbase from the router to achieve full depth of cut.



OPERATION

PERFORMING A ROUTING OPERATION

See Figure 19.

Observe the following rules when using the router.

- Read the entire Operator's Manual for the R163 router.
- Adjust the infeed fence to support the uncut workpiece and adjust the outfeed fence to support the workpiece after the cut. The "0" location on the fence scale denotes the center of the throat opening of the table.
- Position the infeed and outfeed fence so they are close to the maximum diameter of the cutter, but not touching the cutter.
NOTE: The workpiece must always be tight against the fence, unless you are using a ball-bearing piloted cutter.
- Reconfirm that all router adjustments are securely locked before connecting the router table to a power source.
- Feed the workpiece from right to left with the cutter in line with the fence opening.

USING THE ROUTER WITH THE ROUTER TABLE

Observe the following rules when using the router with the router table.

- Read the entire Operator's Manuals.
- Always plug the router into the router table switched outlet. Never plug a router table mounted router into another power source.
- Make sure the router table switch is off when not in use. Remove the switch key to ensure the router table is off.
- Plug the router table power cord into a power source.
- Always control the power to the router with the router table switch whenever the router is mounted on the table.

POSITIONING THE FENCE

See Figure 20.

The fence enables you to support and guide the workpiece.

- Loosen the fence lock knobs.
- Position the fence to the desired location.
- Tighten the fence lock knobs.
NOTE: The outfeed fence has joining capabilities and can be adjusted out in increments up to 1/4 in. and enable you to support the workpiece as it exits the cutter.

⚠ WARNING:

When making a side or edge cut, never position the fence such that the workpiece is located between the cutter and the fence. Failure to heed this warning can result in serious personal injury.

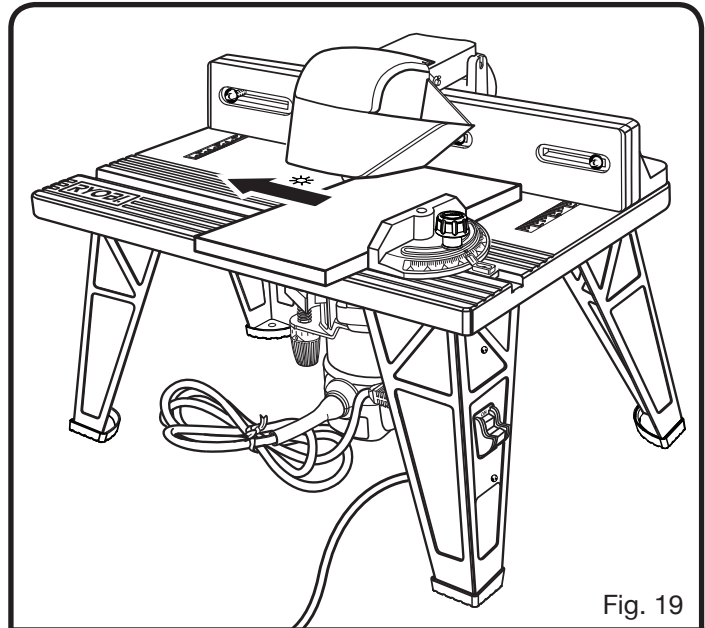


Fig. 19

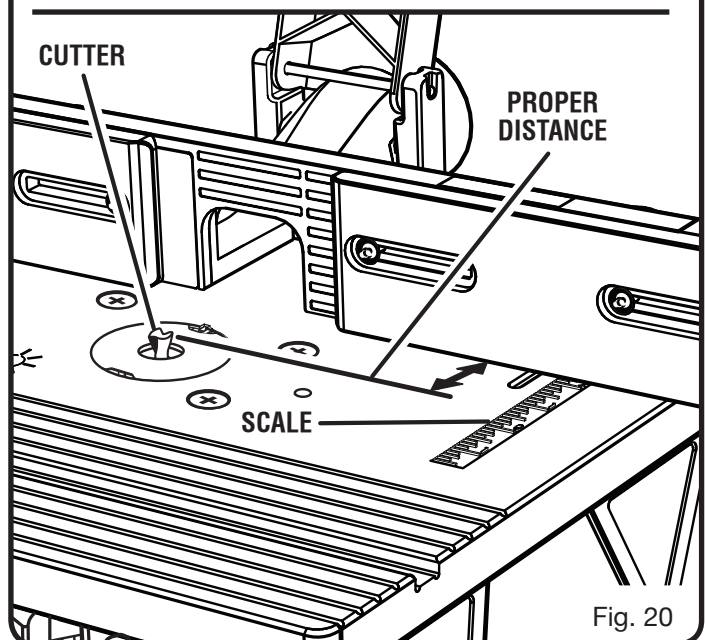
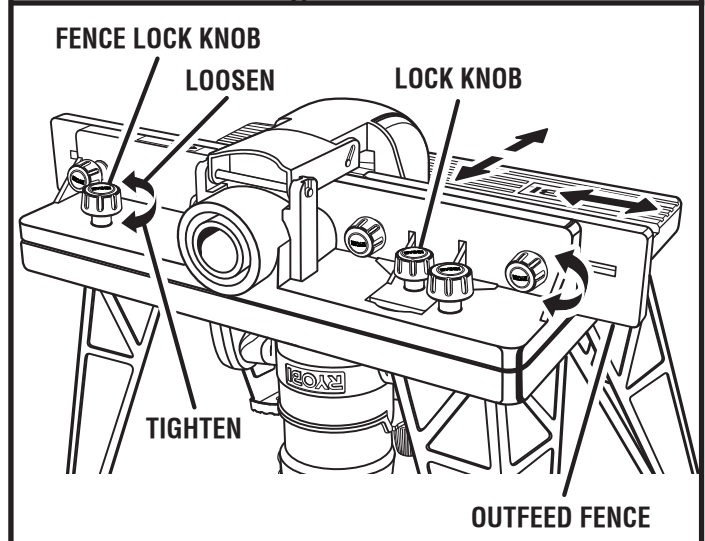


Fig. 20

OPERATION

ADJUSTING THE MITER GAUGE

See Figure 21.

- Loosen the miter gauge knob.
- Rotate the miter gauge to the desired angle.
- Tighten the miter gauge knob.

INSERTING THE STARTING PIN

See Figure 22.

Place the starting pin on the router table and use it as a pivot point when cutting small, odd-shaped pieces.

NOTE: It is not necessary to use the fence when you are using the starting pin, but the bit guard should be used to cover the cutter. Additionally, only use piloted cutters when using the starting pin.

- Place the starting pin into the threaded hole to the right of the router table throat opening.
- Turn the pin clockwise to secure.

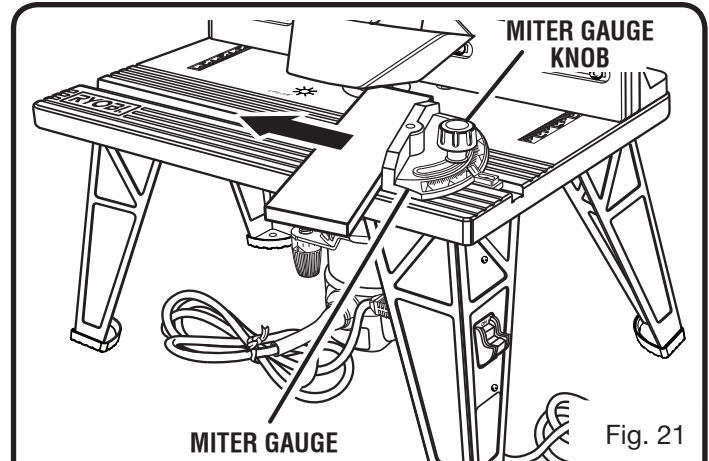


Fig. 21

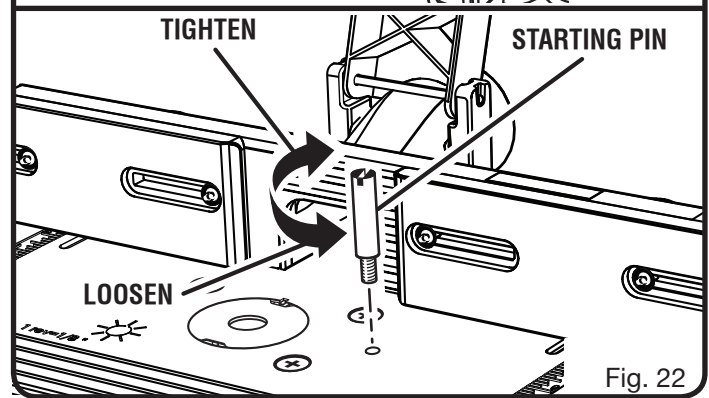


Fig. 22

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 safety goggles or safety glasses with side shields during power tool operation or when blowing dust. If operation is dusty, also wear a dust mask.

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.

⚠ 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.

Electric tools used on fiberglass material, wallboard, spackling compounds, or plaster are subject to accelerated wear and possible premature failure because the fiberglass chips and grindings are highly abrasive to bearings, brushes, commutators, etc. Consequently, we do not recommend using this product for extended work on these types of materials. However, if you do work with any of these materials, it is extremely important to clean the product using compressed air.

Cord, switch and outlet are not provided as separate replacement parts during servicing. Contact your local service center for complete replacement assembly.

LUBRICATION

All of the bearings in this product 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.



OPERATOR'S MANUAL

ROUTER TABLE

RT102

WARNING:

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

- lead from lead-based paints,
- crystalline silica from bricks and cement and other masonry products, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

• PARTS AND SERVICE

Prior to requesting service or purchasing replacement parts, please obtain your model and serial number from the product data plate.

- MODEL NUMBER RT102
- SERIAL NUMBER _____

• HOW TO OBTAIN REPLACEMENT PARTS:

Replacement parts can be purchased online at www.ryobitools.com or by calling 1-800-525-2579. Replacement parts can also be obtained at one of our Authorized Service Centers.

• HOW TO LOCATE AN AUTHORIZED SERVICE CENTER:

Authorized Service Centers can be located online at www.ryobitools.com or by calling 1-800-525-2579.

• HOW TO OBTAIN CUSTOMER OR TECHNICAL SUPPORT:

To obtain Customer or Technical Support please contact us at 1-800-525-2579.

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