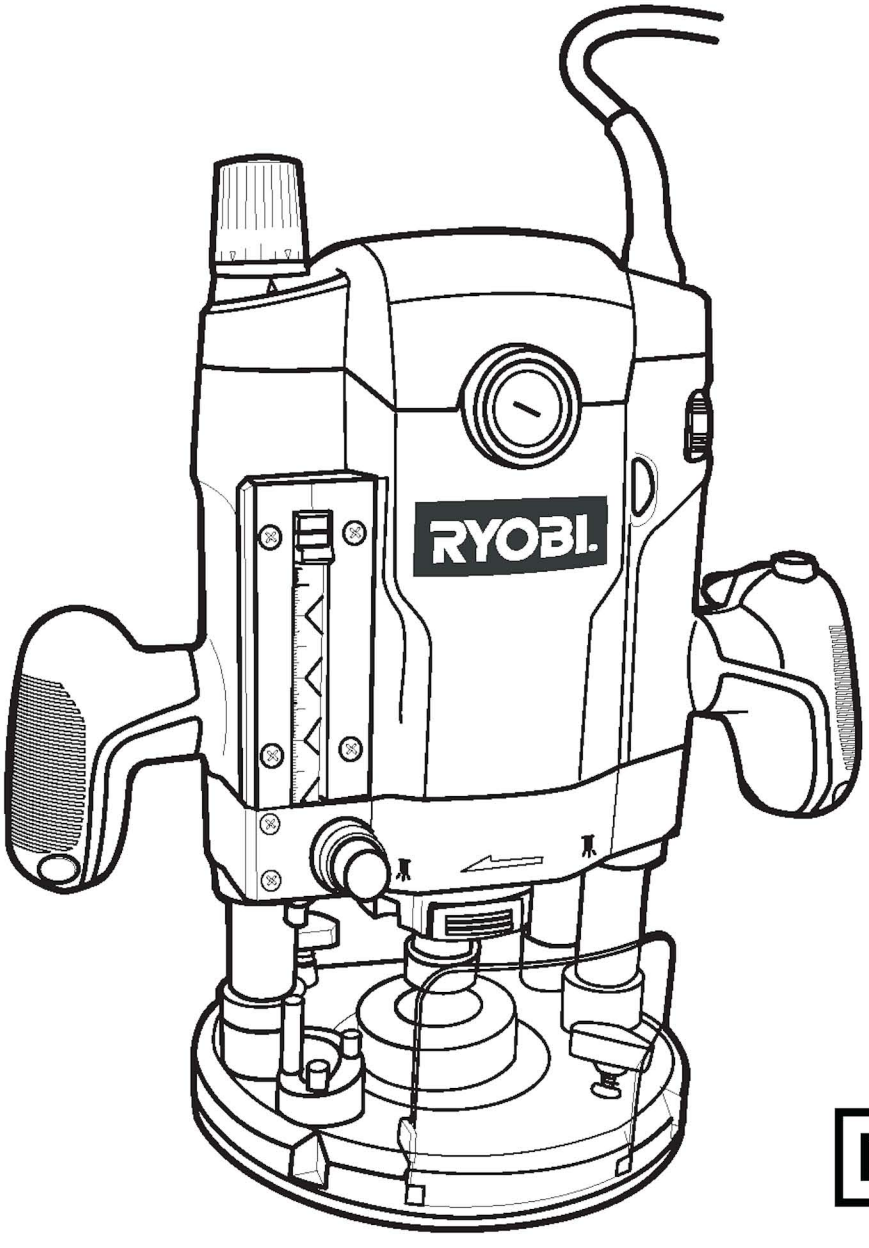
RYOBI®

ERT-2100V

PLUNGE ROUTER
OWNER'S OPERATING MANUAL



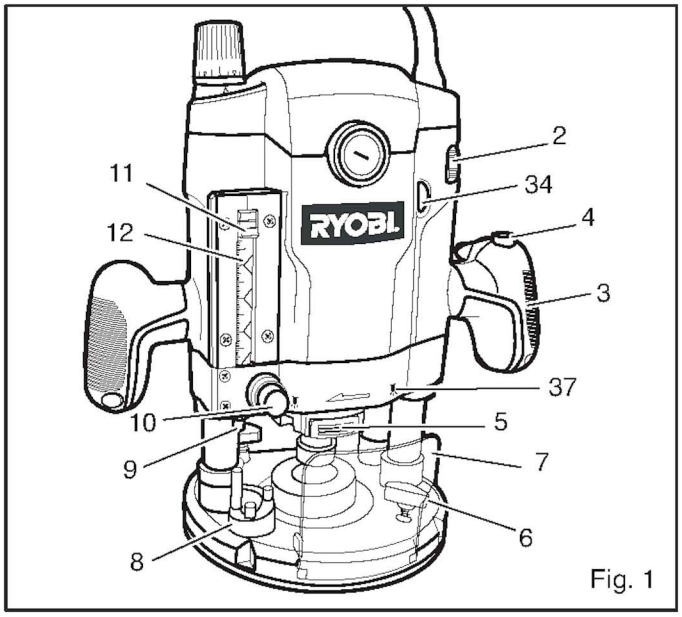
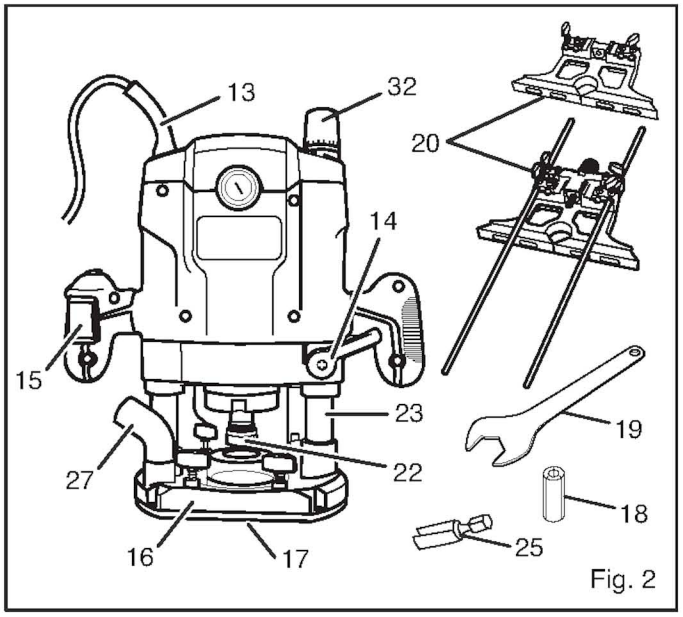


Fig. 1



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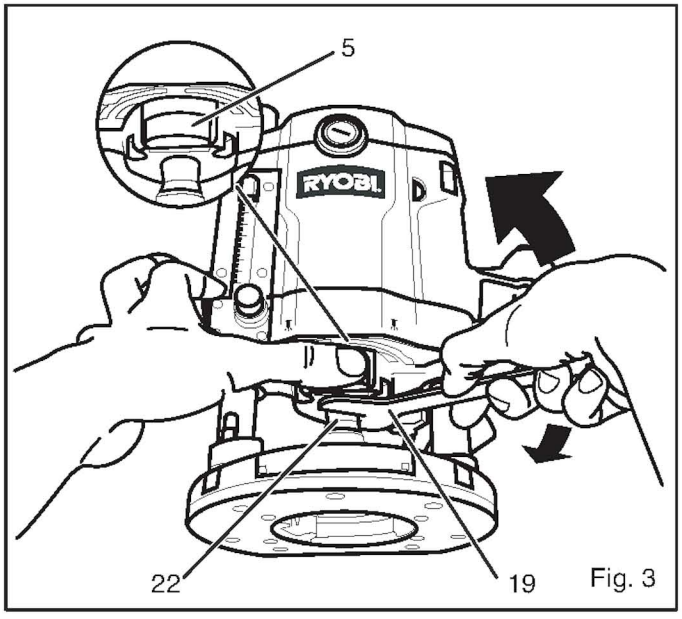

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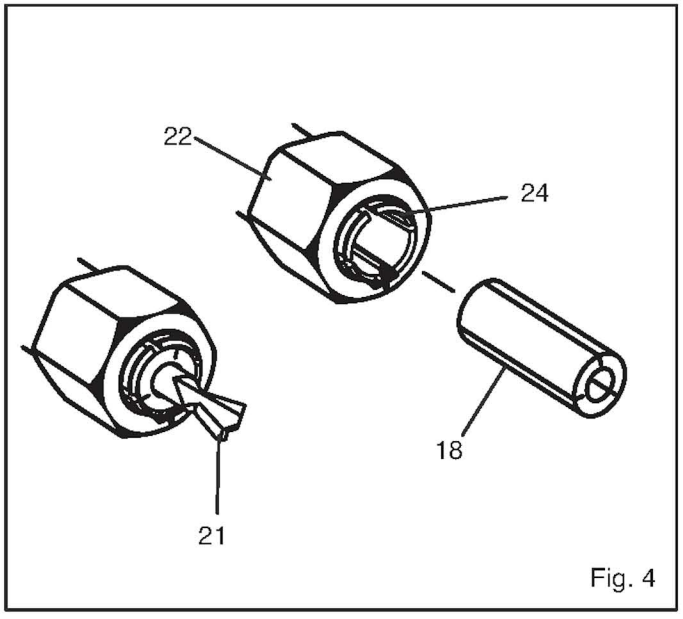

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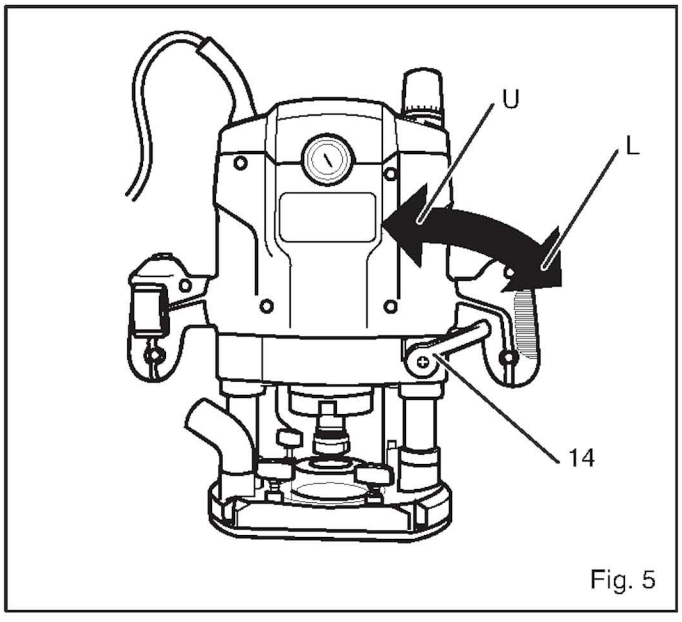

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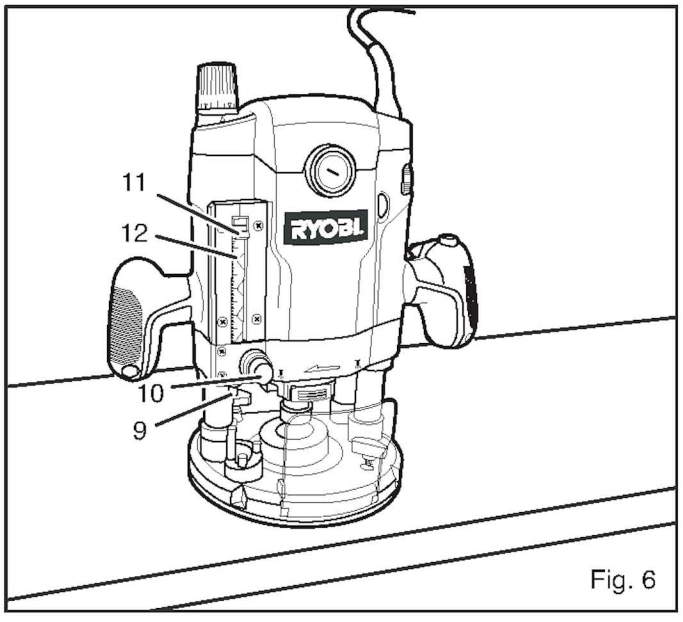

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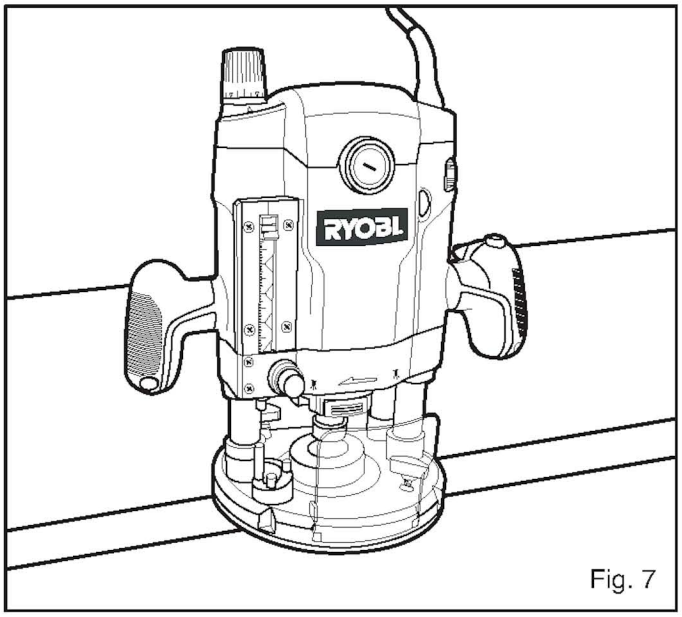

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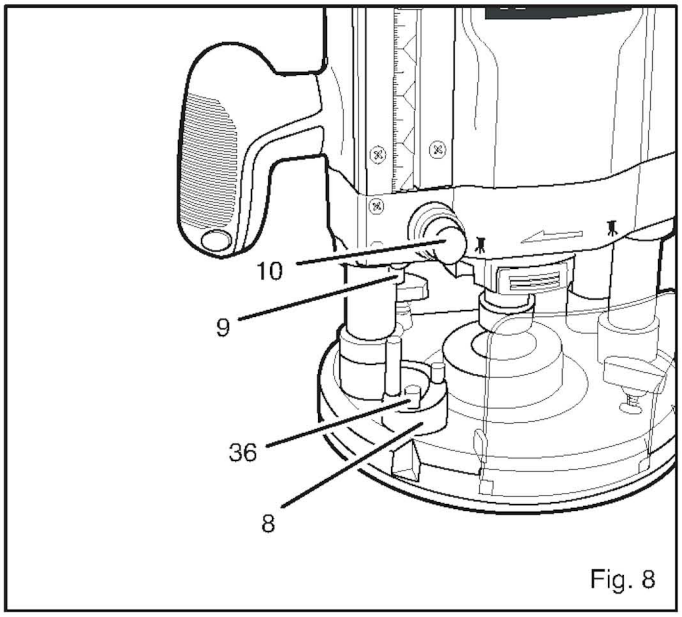

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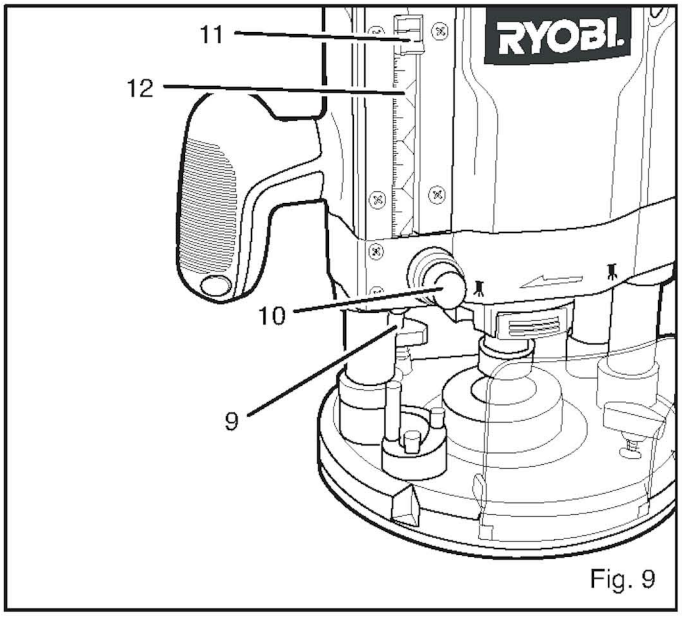

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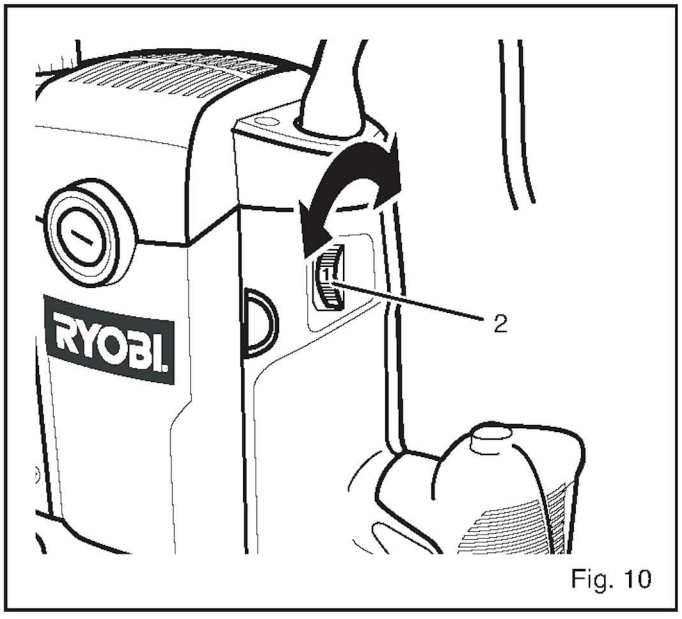

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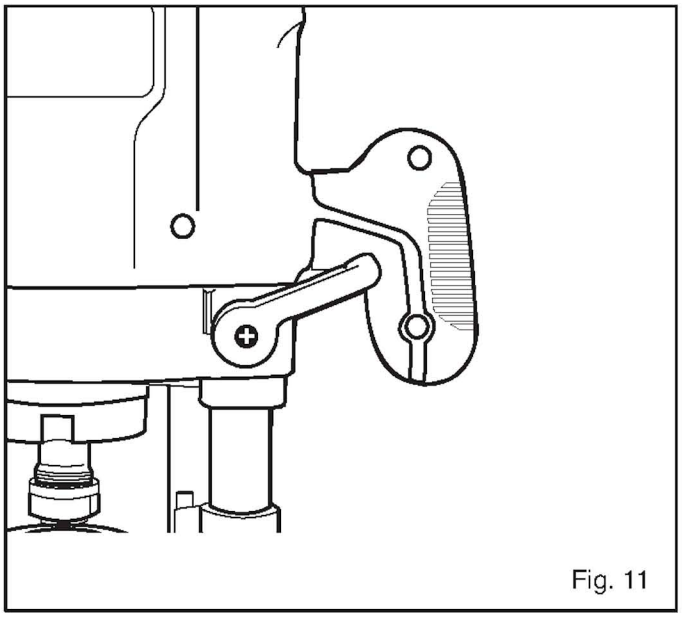

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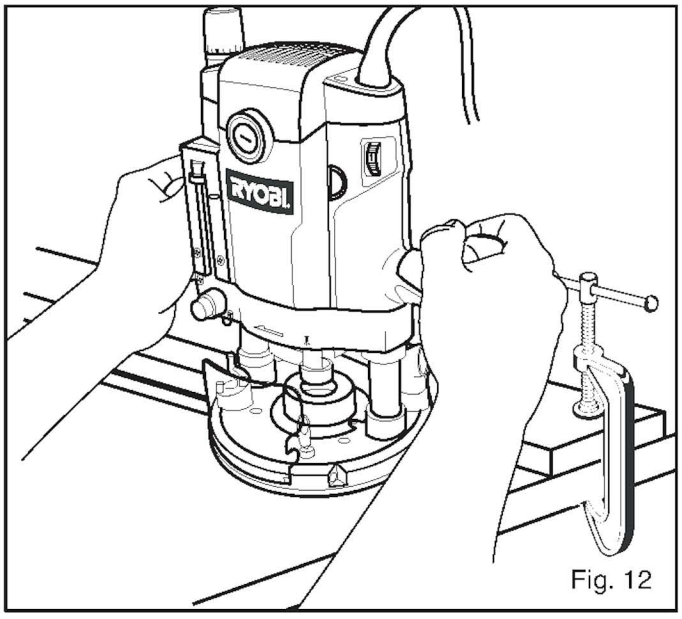

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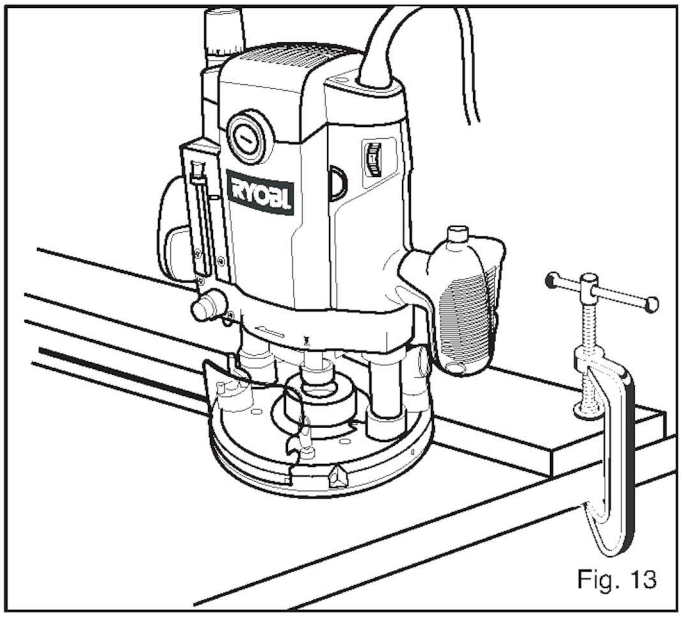

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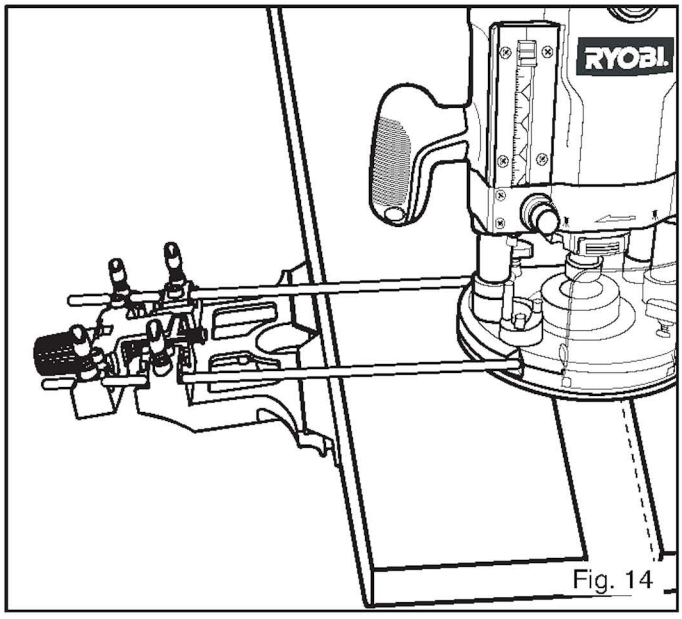

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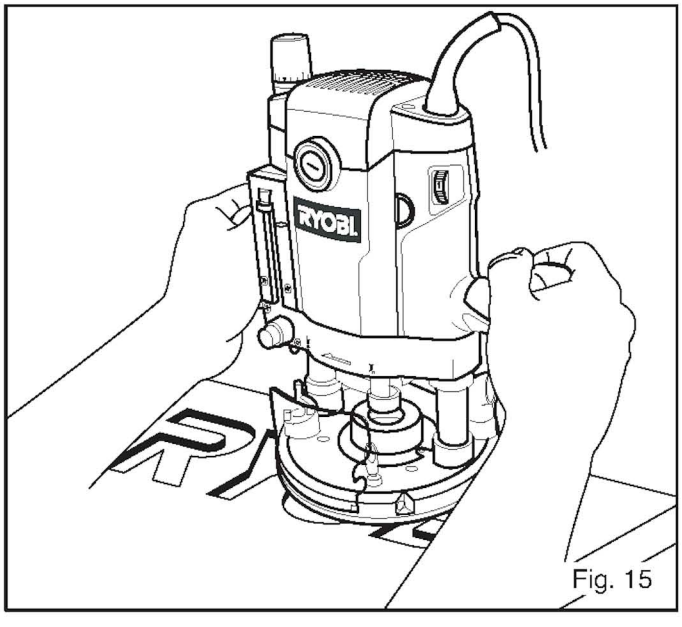

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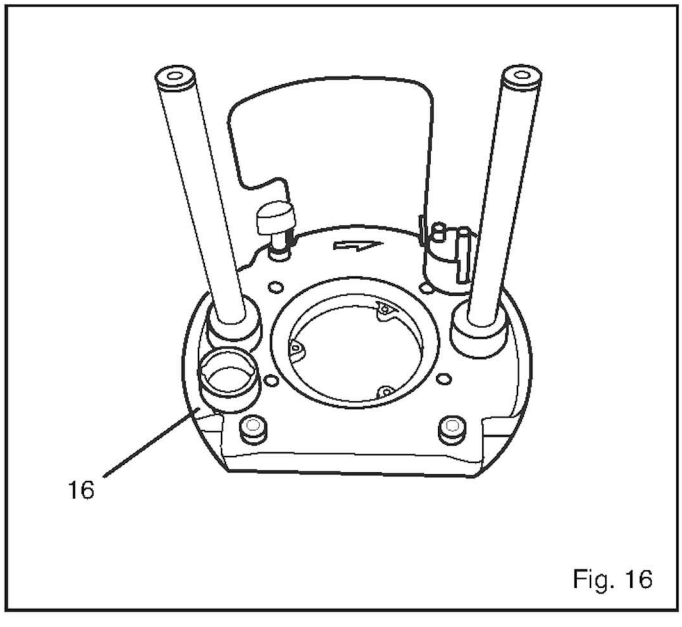

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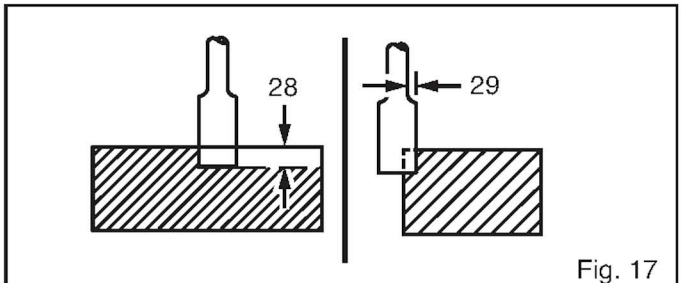

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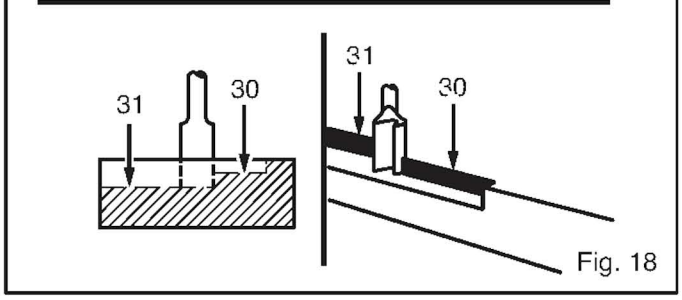

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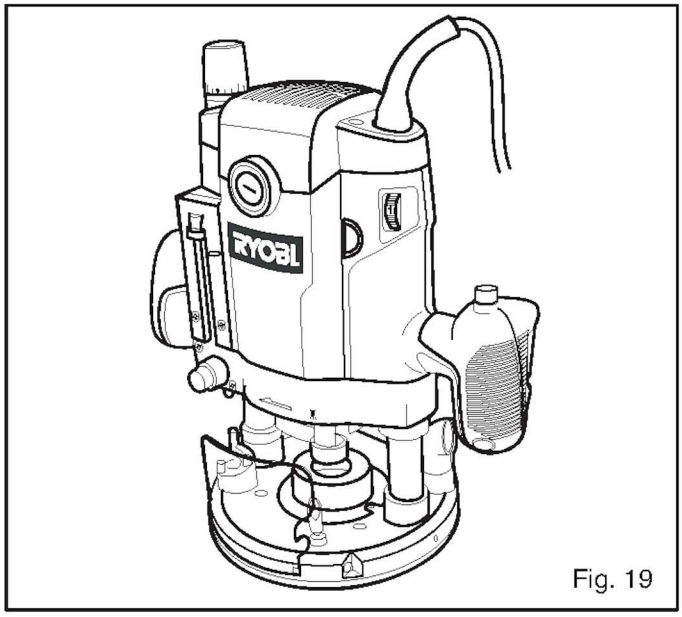

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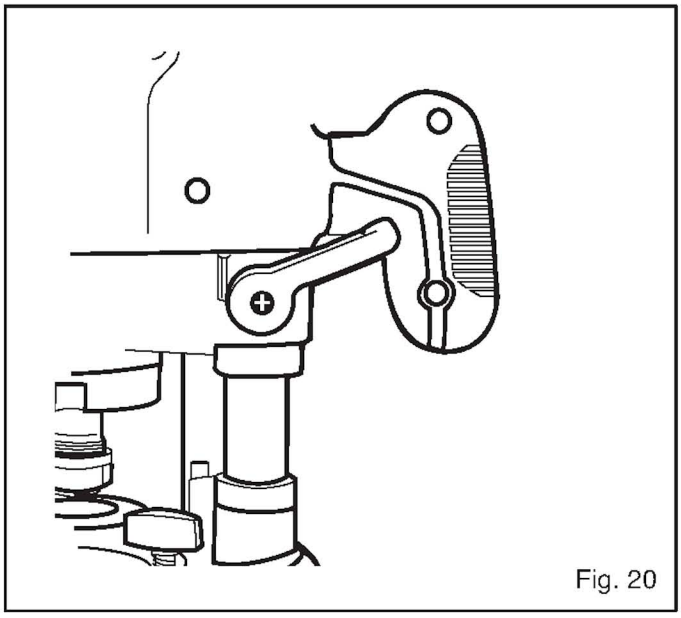

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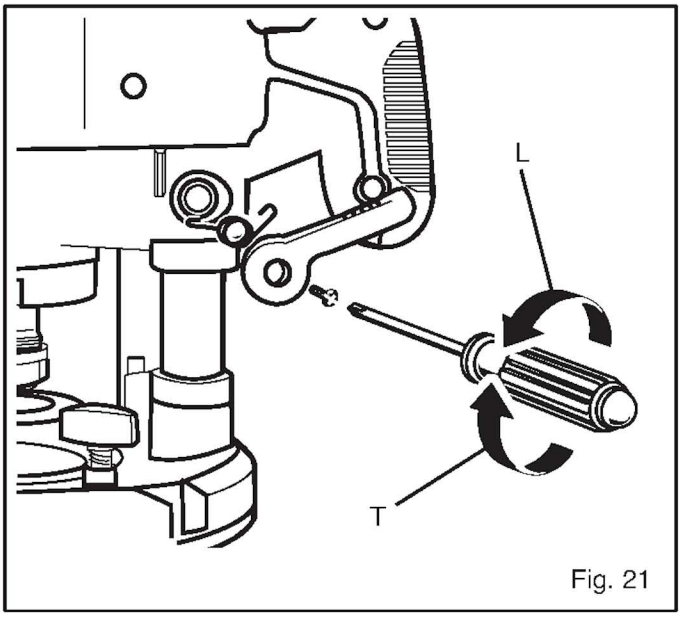
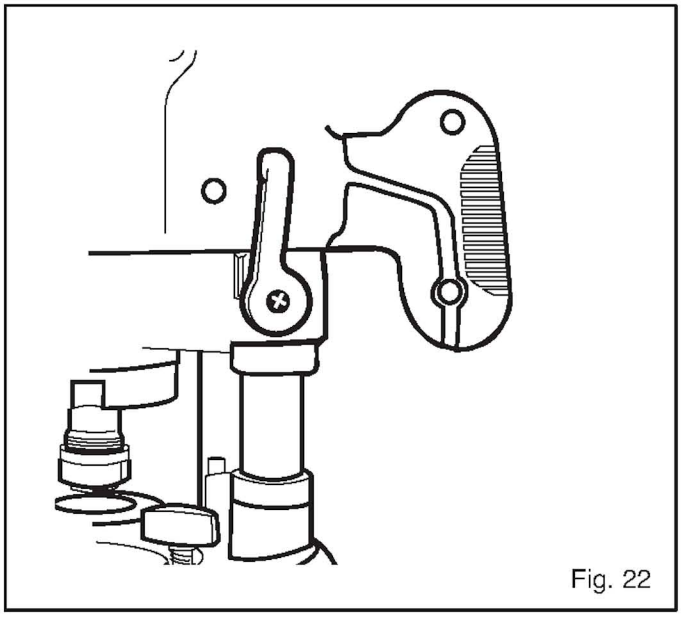


Fig. 21



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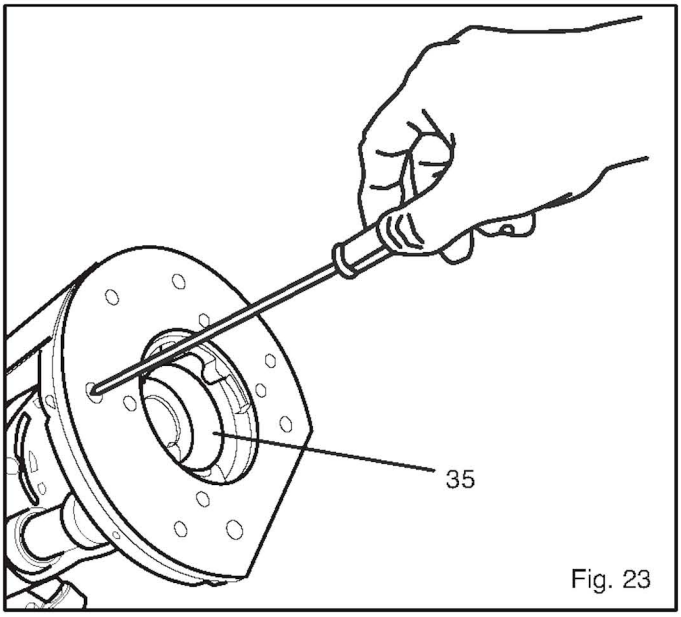

Fig. 23

English

GENERAL SAFETY RULES

SAVE THESE INSTRUCTIONS

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

WORK AREA

- **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools may create sparks which may ignite the dust or fumes.
- **Keep bystanders, children and visitors away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

- **Avoid body contact with grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is grounded.
- **Don't expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord to carry the tool or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges, or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.
- **Use outdoor extension leads.** When tool is use outdoors, use only extension cords intended for outdoor use.

PERSONAL SAFETY

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Dress properly. Do not wear loose clothing or jewelry. Contain long hair. Keep your hair, clothing,and gloves away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts or drawn into air vents.
- **Avoid accidental starting. Be sure switch is off before plugging in.** Carrying tools with your finger on the switch or plugging in tools that have the switch on, invites accidents.

  Remove adjusting keys or wrenches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in unexpected situations. Do not use on a ladder or unstable support.
- **Use safety equipment. Always wear eye protection.** Dust mask, nonskid safety shoes, hard hat, or hearing protection must be used for appropriate conditions.
- Connect dust extraction equipment. If devices are provided for the connected extraction and collection facilities ensure these are connected and properly used.

TOOL USE AND CARE

- **Use clamps or other practical way to secure and support the workpiece to a stable platform.** Holding the work by hand or against your body is unstable and may lead to loss of control.
- Use the right tool. Do not force small tools or attachments to do the job of a heavy duty tool. Do not use tool for purposes not intended.
- **Do not use tool if switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.
- **Store idle tools out of the reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
- **Maintain tools with care. Keep cutting tools sharp and clean.** Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.
- **Check for misalignment or binding of moving parts, breakage of parts and any other condition that mayaffect the tool's operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.

GENERAL SAFETY RULES

- Only use cutters of the correct shank diameter and which are suitable for the speed of the tool.
- **Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool, may become hazardous when used on another tool.

SERVICE

- Tool service must be performed only by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
- **When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow Maintenance Instructions may create a risk of electric shock or injury.

SPECIFIC SAFETY RULES

Hold tool by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.

ADDITIONAL SAFETY RULES

- **Know your power tool. Read operator's manual carefully. Learn its applications and limitations, as well as the specific potential hazards related to this tool.** Following this rule will reduce the risk of electric shock, fire or serious injury.
- **Always wear safety glasses. Everyday eyeglasses have only impact-resistant lenses; they are NOT safety glasses.** Following this rule will reduce the risk of serious personal injury.
- **Protect your lungs. Wear a face or dust mask if the operation is dusty.** Following this rule will reduce the risk of serious personal injury.
- **Protect your hearing. Wear hearing protection during extended periods of operation.** Following this rule will reduce the risk of serious personal injury.
- **Inspect tool cords periodically and, if damaged, have repaired at your nearest Factory Service Center or other Authorized Service Organization. Constantly stay aware of cord location.** Following this rule will reduce the risk of electric shock or fire.
- **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 should be properly repaired or replaced by an authorized service center.** Following this rule will reduce the risk of shock, fire or serious injury.
- **Do not abuse cord. Never carry the tool by the cord or yank it to disconnect it from the power supply. Keep cord away from heat, oil and sharp edges.** Following this rule will reduce the risk of electric shock or fire.
- **Inspect for and remove all nails from lumber before routing.** Following this rule will reduce the risk of serious personal injury.
- **Drugs, alcohol, medication. Do not operate tool while under the influence of drugs, alcohol or any medication.** Following this rule will reduce the risk of electric shock, fire or serious personal injury.
- **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.**

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,
- 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 dust masks that are specially designed to filter out microscopic particles.

SPECIFICATIONS

Voltage :	230V ~ 50Hz
No load speed :	8000-23000 min^{-1}
Input power :	2100W
Plunge depth :	60mm
Collet size :	1/4" and 1/2"
Peak horsepower :	1.3 HP
Net weight :	6.33 kg.

DESCRIPTION

1. Speed selection sight windows
2. Variable speed control
3. Handle
4. Lock-off button
5. Spindle lock button
6. Parallel guide lock knob
7. Chip shield
8. Depth stop
9. Stop bar
10. Stop bar lock knob
11. Zero reset indicator
12. Scale
13. Power cord
14. Plunge lock lever
15. Switch
16. Router base
17. Sub-base
18. Collet adaptor
19. Spanner 23.8mm (15/16")
20. Parallel guide
21. Cutter
22. Collet nut
23. Threaded post
24. Collet
25. Bits
26. Work-piece
27. Dust port
28. Depth of cut
29. Width of cut
30. 1st pass
31. 2nd pass
32. Fine height adjuster knob
33. Fine height adjuster quick release button
34. Live tool indicator
35. Template guide
36. Screw
37. LED light

APPLICATIONS

Use your router only for the purposes listed below:

- Routing grooves, shaping edges, freehand designs etc. in wood.
- Chamfering, rabbeting, dadoing and dovetailing in wood.
- Routing edges on laminates.

FEATURES

Your plunge router is a versatile woodworking tool that will give you years of trouble-free performance. It is engineered with the professional in mind, but its ease of operation allows the amateur to produce work that is beautiful and precise. As the name implies your plunge router can be used for making plunge cuts in workpieces, routing grooves, edge routing, routing circles and freehand routing. When used with recommended accessories, such as a outer table, depth adjustment knob and straight guide; it becomes even more versatile. Various types of cutters, both with and without roller bearings as guides, also add to the versatility of this tool.

HEAVY DUTY MOTOR

Your router has a powerful motor with sufficient power to handle tough routing jobs. It delivers 1.3 horsepower for heavy duty performance.

CHIP SHIELD

A plastic chip shield has been provided on the base of your router for protection against flying dust and chips. It is designed to fit the front opening of the router base.

SPINDLE LOCK

The spindle lock secures the spindle so that only one wrench is needed to loosen collet nut and change cutters. To operate push the button whilst loosening the collet. NOTE: Do not run router with spindle lock engaged or use as a brake to stop the router.

VARIABLE SPEED

Your router has advanced electronic features, designed to assist you in getting the maximum use from your router. By making proper speed selections, your router can be adjusted to specific routing needs.

The variable speed control allows the router to develop a no load speed that can be adjusted from 8,000 to 23,000 min^{-1}. The variable speed control selector is conveniently located on the front of the router.

The electronic feature of your router introduces the flexibility of adjusting the motor speed to required job conditions. An electronic speed control module senses the load applied to the motor and increases or decreases motor voltage to compensate for and maintain desired RPM. Speed can be set according to the approximate cutter diameter you will be using and to the hardness of the material being cut. The best cuts are made when the cutter is fed through material at the proper rate of feed.

SPINDLE LOCK

Your router has a plunge lock lever that allows for free plunging. This feature is very useful for table mounted operations on router tables when used with the fine height adjuster quick release mechanism. Unlocking the plunge lock lever and releasing the fine height adjuster allows for a smooth, precise plunging action. Once you reach the desired depth of cut, simply lock the plunge lock lever. The cutter will then be secured at the desired depth of cut.

After extended use, the plunge lock may wear. If this happens, you can easily adjust the lever.

TO ADJUST PLUNGE LOCK LEVER

- **UNPLUG YOUR ROUTER.**

WARNING
Failure to unplug your router could result in accidental starting causing serious injury.

FEATURES

- Make sure lever is in locked position.
- Remove (L) the screw supporting the plunge lock lever.
- Remove the lever.
- Place the lever back in the original locked position.
- Replace (T) the screw.
- Check for free plunge with lever rotated to unlocked position. If router does not plunge freely, reposition lever.

PLUNGE LOCK LEVER SHOWN AFTER EXTENDED WEAR (FIG. 20)

PLUNGE LOCK LEVER SHOWN IN ORIGINAL LOCKED POSITION (FIG. 22)

TEMPLATE GUIDE (Fig. 23)

The template guide (35) can be fitted to the base of the router to accurately duplicate curves and other complex shape. These shapes can be easily made by using a jigsaw to cut out a template. Fix the guide to the base of the router by removing the two screws retaining the dust extraction port, placing the guide in the recess provided in the base and replacing the screws. The dust extraction port must be in place when fitting the guide to hold the screws.

The guide protrudes below the bottom of the base allowing the router to follow the template, which must be securely fixed to the workpiece and a firm pressure applied to the router at all times to ensure that the edge of the guide accurately follows the template.

The template must be at least 5mm thick to allow for the protrusion of the guide. Allowance must also be made in the template for the distance between the cutting edge of the bit and the outside edge of the template guide.

ERGONOMIC DESIGN

The design of this tool provides for easy handling. It is designed for comfort and ease of grasp when operating in different positions and at different angles.

ELECTRICAL CONNECTION

Your router has a precision built electric motor. It should only be connected to a power supply of the type specified on the rating plate of the machine, AC only. Do not operate this tool on direct current (DC). A voltage drop of more than 10 percent will cause a loss of power and overheating.

If your tool does not operate when plugged into an outlet, double-check the power supply.

DOUBLE INSULATION

Double insulation is a concept in safety in electric power tools, which eliminates the need for the usual threewire 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 wiring. Observe all normal safety precautions to avoid electrical shock.

Important: Servicing of a tool 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 tool to your nearest authorized service center for repair.

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.

ADJUSTMENTS

WARNING
Your router should never be connected to power supply when you are assembling parts, making adjustments, installing or removing cutters or when not in use. Disconnecting your router will prevent accidental starting that could cause serious injury.

CUTTER INSTALLATION (FIG. 3 & 4)

- UNPLUG YOUR ROUTER.

WARNING
Failure to unplug your router could result in accidental starting causing serious injury.

ADJUSTMENTS

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

- Remove chip shield (7) from router base (16).
- Depress spindle lock (5).
- Lay router down on workbench in order to gain easy access to collet nut (22). Place the spanner (19) provided through front of router base onto collet nut and turn counterclockwise to loosen.

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.

- Install cutter (21) once collet nut is loose. If changing cutters, cutter will easily slip from collet (24) after loosening collet nut. For example: The collet is machined to precision tolerances to fit cutters with 1/2" (12.7 mm) diameter shanks. To use cutters with 1/4" (6.35 mm) diameter shanks, insert the 1/4" (6.35 mm) collet adaptor(18) into the 1/2" (12.7 mm) collet.
- Insert shank of cutter until shank bottoms out, then pull it out 1/16" (1.6 mm) to allow for expansion when the bit gets hot.
- Tighten the collet nut securely by turning clockwise with the wrench provided.
- Release spindle lock.
- Replace chip shield.

WARNING
If the collet nut is not securely tightened, the cutter may detach during use causing serious personal injury.

WARNING
Do not use cutters with undersized shanks. Undersized shanks will not tighten properly and could be thrown from the tool causing injury.

WARNING
Do not use cutters that are larger in diameter than the opening in router base. Use of such cutters will come in contact with the router base and damage both the cutter and router base. This situation could also cause possible loss of control or create other hazardous conditions that could cause possible serious personal injury.

DEPTH OF CUT

When routing a groove that is too deep to safely cut in one pass, it is best to make the cut in several passes.

We recommend that cuts be made at a depth not exceeding 1/8 in. (3.2 mm) and that several passes be made to reach deeper cuts.

Proper depth of cut depends on several factorshorsepower of router motor, type of cutter being used and type of wood being routed. A lightweight, low horsepower router is designed for making shallow cuts.

A router with high horsepower rating can safely cut deeper. For example: small bits (21), such as veining bits with 1/16 in. (1.6mm) cutting diameters, are designed to remove only small amounts of wood. Large bits, such as straight-flute bits, are made to remove larger amounts of wood in a single pass. Cuts can be made deeper in soft woods, such as white pine, than in tough hardwoods, like oak or maple. Based upon these considerations, choose a depth of cut that will not place excessive strain on router motor. If you find that extra force is needed or that the motor speed slows down considerably, turn off router and reduce the depth of cut. Then, make the cut in two or more passes.

TO ADJUST DEPTH OF CUT (FIG. 5-7)

- Loosen the stop bar (9)
- Unlock (U) the plunge lock lever (14) by turning it counter clockwise.
- Lower the router body until the cutter is in contact with the work-piece.
- Lock the depth stop (8) at the right height.
- Set the exact depth of cut using the graduation. The distance between the stop bar (9) and screw of the depth stop (8) is setting plunge depth
- Tighten the stop bar lock knob (10) to set depth of plunge.

ADJUSTMENTS

DEPTH STOP (FIG. 8 & 9)

- The depth stop (8) can be used to set three different depths. This is particularly useful for deep cut, performed in steps.
- If required, set all three screws.

VARIABLE SPEED CONTROL SELECTOR (FIG. 10)

Your router has a variable speed control selector (2) designed to allow operator control of speed and torque limits. You can make speed selections best suited to the type of cut, the material being cut and the size of bit being used. The variable speed control selector allowsyou to adjust router speed from 14,000 to 31,500 min^{-1}. There is a six step scale (A to F) on the variable speed control selector. To increase the speed and torque of your router, turn the variable speed control selector to a higher setting (F). Turn to a lower setting to decrease speed and torque.

NOTE: If you do not want to use the variable speed control selector, turn it to the highest possible setting and the feature will not be active.

We suggest that you practice with the variable speed feature of your router before installing a cutter and making cuts in wood.

ZERO RESET INDICATOR

The zero reset indicator allows you to use the scale provided on the housing to make quick depth of cut changes to existing depth of cut settings. Simply choose a reference point on the scale and slide the zero reset indicator up or down the scale the distance required for new depth of cut. Then change stop bar position by loosening lock knob and adjusting stop bar until red line on zero reset indicator moves back to reference point. Tighten lock knob securely to lock stop bar in new position. The cutter position will now increase or decrease the exact distance the stop bar was adjusted.

NOTE: Each mark on the inch scale indicates 1/16 in.(1.6 mm).

OPERATION

SWITCH (FIG.11)

To turn the router ON, press the lock-off button (4) and squeeze the switch (15). To turn the router OFF, release both the switch & lock-off button.

CAUTION:
We suggest that you practice with your router before installing a cutter and making cuts in wood.

LIVE TOOL INDICATOR (34)

This tool features a live tool indicator which illuminates as soon as the tool is connected to the supply. This warns the user that the tool is connected and will operate when the switch is pressed.

ROUTING (FIG. 12)

For ease of operation and maintaining proper control, your router has two handles (3), one on each side of the router base. When using your router hold it firmly with both hands.

Before starting the router, unplug it and make sure the cutter is securely tightened in collet nut and that depth of cut is properly set.

Plug router into power supply, turn it on and let motor build to its full speed, then gradually plunge or feed cutter into workpiece. Do not let the cutter contact workpiece before turning on router and allowing it to develop full speed.

Remain alert and watch what you are doing. Do not operate router when fatigued or under the influence of drugs, alcohol or any medication.

ROUTING GROOVES (FIG. 13)

When routing across the face of boards, set router at desired depth of cut, place the edge of router base against workpiece and turn on the router. Slowly feed the cutter into the workpiece along desired line of cut.

WARNING
If desired depth of cut is greater than can be safely cut in one pass, make cuts in two or more passes.

When routing straight cuts across stock, clamp a straight edge to the workpiece to use as a guide. Position the straightedge parallel to the line of cut and offset the distance between the cutting edge of the cutter and the edge of the router base. Hold the router base against thestraightedge and rout the groove.

When routing a groove wider than the diameter of the cutter, clamp a straightedge on both sides of the cutlines. Position both guides parallel to the desired line of cut and spaced equal distances from the desired edges of the groove. Rout along one guide; then, reverse direction and rout along the other guide. Clean out any remaining waste in the center of the groove freehand.

OPERATION

FITTING AND ADJUSTING THE PARALLEL GUIDE (FIG. 14)

- Insert the parallel guide (20) into the hole of the Router base (16).
- Draw a cutting line on the work-piece (26).
- Lower the router body until the cutter is in contact with the work-piece.
- Postion the router on the cutting line. The outer cutting edge of the cutter must coincide with the cutting line.
- Without moving the router push the Guide to the edge of the workpiece before tightening the lock knob(6)

ROUTING BY FREEHAND (FIG. 15)

When used freehand, your plunge router becomes a flexible and versatile tool. This flexibility makes it possible to easily rout signs, relief sculptures etc. There are two basic techniques for freehand routing:

- Routing letters, grooves and patterns into wood.
- Routing out the background, leaving the letters or pattern raised above the surface.

When freehand routing, we suggest the following:

- Draw or layout the pattern on workpiece.
- Choose the appropriate cutter.

  NOTE: A core box or V-groove bit is often used for routing letters and engraving objects. Straight bits and ball mills are often used to make relief carvings. Veining bits are used to carve small, intricate details.
- Rout the pattern in two or more passes. Make the first pass at 25% of the desired depth of cut. This process will provide better control as well as being a guide for the next pass.
- Do not rout deeper than 1/8 in. (3.2 mm) per pass or cut.

Follow these directions when routing by freehand:

- Choose the appropriate cutter, set desired depth of cut, carefully check set-up and secure workpiece.
- Make a test cut in a scrap piece of wood from the same workpiece if possible.
- Unlock plunge lock lever to raise cutter from any preset depth of cut. This also permits raising cutter inside router base.
- Place router on workpiece inside pattern to be routed.
- Grasp handles securely and press the switch to start your router.
- Let motor build to full speed, then gradually plunge cutter into workpiece until stop bar comes into contact with depth stop.
- Lock plunge lock lever to secure depth of cut setting.
- Begin routing out the pattern, continuing until a complete pass at this depth of cut has been made.

WARNING
Do not use large router bits for freehand routing. Use of large router bits when freehand routing could cause loss of control or create other hazardous conditions that could cause possible serious personal injury.

- Several cuts that require repositioning of router may be needed for a particular job. If this situation exists, unlock plunge lock lever to raise cutter inside router base after each cut, reposition router for next cut, gradually plunge cutter into workpiece until stop bar contacts depth stop, lock plunge lock lever and continue routing.
- After all cuts have been made, unlock plunge lock ever, raise cutter inside router base, remove router from workpiece, turn off the router and allow cutter to come to a complete stop.

ROUTING EDGES

Place router on workpiece, making sure the router bit does not contact workpiece. Turn router on and let the motor build to its full speed. Begin your cut, gradually feeding cutter into workpiece.

WARNING
Keep a firm grip on router with both hands at all times. Failure to do so could result in loss of control leading to possible serious injury.

Upon completion of cut, turn motor off and let it come to a complete stop before removing router from work surface.

WARNING
Never pull router out of work and place upside down on work surface before the cutter stops.

CONNECTING A DUST EXTRACTOR (FIG. 16).

- The dust extractor hose can be connected to the dust extraction channel.

OPERATION

FINE HEIGHT ADJUSTER (32)

It is used to precisely control the depth of the cutter.

- To use the fine height adjuster, ensure that the plunge lock is released.
- Rotate the knob clockwise to raise the cutter, anticlockwise to lower the cutter.
- When the desired position is reached, re-engage the plunge lock before use.

FINE HEIGHT ADJUSTER QUICK RELEASE BUTTON (33)

This disengages the fine height adjuster allowing a large adjustments of plunge depth to be quickly made.

- To make large adjustments to cutter height, ensure that the plunge lock is released.
- Press the quick release button whilst plunging the router to the required height.
- Release the button, check the height, make fine adjustments if necessary with the fine height adjuster, then re-engage the plunge lock before use.

ADJUSTMENTS

DEPTH OF CUT

As previously mentioned, the depth of cut (30) is important because it affects the rate of feed that, in turn, affects the quality of the cut (and, also, the possibility of damage to your router motor and bit). A deep cut requires a slower feed than a shallow one and a too deep cut will cause you to slow the feed so much that the bit is no longer cutting, it is scraping, instead.

Making a deep cut is never advisable. The smaller bits — are easily broken off when subjected to too much side thrust. A large enough bit may not be broken, but if the cut is too deep a rough cut will result — and it may be very difficult to guide and control the bit as desired. For these reasons, we recommend that you do not exceed 1/8 in. (3.2 mm) depth of cut in a single pass, regardless of the bit size or the softness or condition of the workpiece.

To make deeper cuts it is therefore necessary to make as many successive passes as required, lowering the bit 1/8 in. (3.2 mm) for each new pass. In order to save time, do all the cutting necessary at one depth setting, before lowering the bit for the next pass. This will also assure a uniform depth when the final pass is completed.

MAINTENANCE

WARNING
When servicing use only identical Ryobi replacement parts. Use of any other parts may create a hazard or causeproduct damage.

GENERAL

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, carbon dust etc.

WARNING
Do not at any time let brake fluids, gasoline, petroleum- based products, penetrating oils etc. come in contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic.

Electric tools used on fiberglass material, wallboard, spackling compounds or plaster are subject to acelerated wear and possible premature failure, as the fiberglass chips and grindings are highly abrasive to bearings, brushes, commutators etc. Consequently, we do not recommended that this tool be used for extended work on these types of materials. If, however, you do work with any of these materials, it is extremely important that you clean the tool frequently by blowing it with an air jet.

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.

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.

CUTTERS

Get faster and more accurate cutting results by keeping cutters clean and sharp. Remove all accumulated pitch and gum from cutters after each use.
When sharpening cutters, sharpen only the inside of the cutting edge. Never grind the outside diameter. Be sure when sharpening the end of a cutter to grind the clearance angle the same as originally ground.

MAINTENANCE

COLLET

Dust and chips may collect on the collet from time to time, making it necessary to clean the collet. To do so, remove the collet assembly and wipe it with a clean dry rag. Clean the taper in the shaft in the same manner. Never immerse the collet or end of the shaft in a solvent or in water. Before replacing the collet assembly, put a drop of motor oil on the inside of the nut, on the threads of the shaft and on the taper in the shaft. Replace the collet assembly onto the shaft by hand only. Never tighten the collet nut without a bit in the collet. This action could permanently damage the collet.

ENVIRONMENTAL PROTECTION

Do not dispose of in general household waste. Instead, dispose in an environmentally friendly way. Contact your local recycling centre or council for advise. Ryobi takes the care of the environment very seriously.

GUARANTEE - STATEMENT

This product is guaranteed from defects in material and workmanship, for a period of 24 months, effective and evidenced from date of original invoice or delivery note.

Defects caused by normal wear and tear, unauthorized / improper maintenance/handling or overload are excluded from this guarantee as are accessories such as battery packs, bulbs, blades and bits etc.

In the event of malfunction within the guarantee period, please return the product UNDISMANTLED with proof of purchase, to your dealer or nearest Ryobi Service Centre.

Your statutory rights in respect of defective products remain unaffected by the warranty

DECLARATION OF CONFORMITY

We declare under our sole responsibility that this product is in conformity with the following standards or standardized documents.

EN50144-1;
EN50144-2-17;
EN55014-1;
EN61000-3-2;
EN61000-3-3;
EN55014-2.
EN60745

in accordance with the regulations
98/37/EC and 89/336/EEC

Sound pressure level	**90.4 dB(A)**
Sound power level	**101.4 dB(A)**
The weighted root mean square acceleration value	**2.59 m/s²**

Machine: **PLUNGE ROUTER** Type: **ERT-2100V** CE **28.09.2006**

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