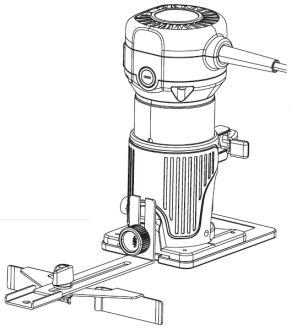
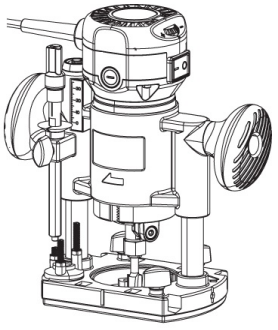
14x21cm

ROUTECH

RT-003/RT-003B
710W Router
User Manual





WARNING: Never tighten the collet with the nut without the cutter bit inserted (Tightening the collet without a cutter bit inserted, even by hand, will cause the collet to become stuck)

MEMS HOLDING LIMITED (UK) www.igoootools.com

Introduction

Thank you for choosing a ROUTECH tool. This manual provides essential information for the safe and effective operation of your ROUTECH router. To fully utilize its unique features and functions, please read this manual carefully before use.

Description of Symbols

The rating plate on your tool may show symbols. These represent important information about the product or instructions on its use.

Wear hearing protection

Wear eye protection
Wear breathing protection
Wear head protection

Wear hand protection

Read instruction manual

Warning: Sharp blades or teeth!

DO NOT use in rain or damp environments!

Always disconnect from the power supply when adjusting, changing accessories, cleaning, carrying out maintenance and when not in use!

Dust extraction required or recommended

WARNING: Moving parts can cause crush and cut injuries

Caution!

Class II construction (double insulated for additional protection)

Please recycle where facilities exist.
Check with your local authority or retailer for recycling advice.
Environmental Protection
Electrical products should not be disposed of as household waste.

WARNING: Hearing Protection Required. This tool produces sound levels may exceed 85dB(A). Always wear ear protection. If the sound becomes uncomfortable, even with hearing protection, stop using the tool immediately and check that your hearing protection is properly fitted and provides adequate noise reduction. Limit exposure time as needed.

WARNING: Vibration Hazard. Prolonged exposure to tool vibration can cause numbness, tingling, and reduced grip strength. Long-term exposure may lead to chronic conditions. To minimize risk, limit vibration exposure time, wear anti-vibration gloves, and keep your hands warm. Refer to the specifications for vibration levels and use them to calculate safe operating

Technical Abbreviations Key

V	Volts
~, AC	Alternating current
A, mA	Ampere, milli-Amp
n0	No load speed
n	Rated speed
°	Degrees
Ø	Diameter
Hz	Hertz
DC	Direct current
W, kW	Watt, kilowatt
/min or min^{-1}	Operations per minute
dB(A)	Decibel sound level (A weighted)
m/s^2	Metres per second squared (vibrati magnitude)

Specification

Model no:	RT-003/RT-003B
Voltage:	120V/60Hz
Output power:	710W
Input power:	5.5A
No load speed(RPM):	10000-30000
6 speed setting(RPM):	1) 10000 2) 13000 3) 17000 4) 22000 5) 26000 6) 30000
Collet size:	**1/4"**
Max. cut diameter:	35mm
Max cutter shank:	**1/4"**
Depth adjustment range:	37mm
Ingress protection:	IPX0
Protection class:	⧈
Dimensions (L x W x H):	*25 x 11.5x 11.5cm*
Weight:	RT-003 1.8kg RT-003B 1kg
As part of our ongoing product development, specifications of ROUTECH products may alter without notice.	
Sound and vibration information:	
Sound pressure LPA:	85dB(A)
Sound power LWA:	96dB(A)
Uncertainty K:	3dB
Weighted vibration	4.6m/s2
Uncertainty	1.5m/s2
Warning: The sound intensity level for the operator may exceed 85dB(A) and sound protection measures are necessary.	

duration

General Safety

- **WARNING:** Read and Understand All Instructions. Failure to follow these safety warnings and instructions may result in electric shock, fire, or serious injury.
- **WARNING:** User Responsibility. This tool is not intended for use by individuals (including children) with limited physical, sensory, or mental capabilities, or those lacking experience or knowledge, unless they are supervised or instructed by a responsible person. Children must be supervised to prevent them from playing with the tool.
- **Keep These Instructions Safe. Save all warnings and instructions for future reference.**
- **"Power Tool" Defined. In these warnings, "power tool" refers to your corded (mains-powered) or cordless (battery-powered) tool.**

Work Area Safety

1. Maintain a Clean and Well-Lit Workspace. Cluttered or dark areas increase the risk of accidents.
2. Avoid Explosive Environments. Do not use power tools in areas where flammable liquids, gases, or dust are present. Power tools create sparks that can ignite these substances.
3. Keep Children and Bystanders Away. Distractions can cause you to lose control of the tool.

Electrical Safety

1. Use Correct Plugs and Outlets. Power tool plugs must match the outlet. Never modify the plug. Do not use adapter plugs with grounded tools. Using unmodified plugs and matching outlets reduces the risk of electric shock.
2. Avoid Grounded Surfaces. Do not touch grounded surfaces like pipes, radiators, ranges, and refrigerators while using the tool. This increases the risk of electric shock.
3. Protect From Moisture. Do not expose power tools to rain or wet conditions. Water entering the tool increases the risk of electric shock.
4. Protect the Cord. Do not abuse the power cord. Never use it to carry, pull, or unplug the tool. Keep it away from heat, oil, sharp edges, and moving parts. Damaged or tangled cords increase the risk of electric shock.
5. Use Outdoor-Rated Extension Cords. When using the tool outdoors, use an extension cord rated for outdoor use.
6. Use an RCD in Damp Locations. If using the tool in a damp location is unavoidable, use a residual current device (RCD). This reduces the risk of electric shock.

Personal Safety

1. Stay Alert and Use Common Sense. Do not use the tool if you are tired or under the influence of drugs, alcohol, or medication. Inattention can lead to serious injury.
2. Wear Personal Protective Equipment (PPE). Always wear eye protection. Use dust masks, non-slip safety shoes, hard hats, and hearing protection as needed.
3. Prevent Accidental Starts. Ensure the switch is off before plugging in the tool or inserting the battery. Do not carry the tool with your finger on the switch.
4. Remove Adjustment Tools. Remove any wrenches or keys before turning on the tool. A tool left attached can cause injury.
5. Maintain Proper Footing and Balance. Do not overreach. This allows better control in unexpected situations.
6. Dress Appropriately. Do not wear loose clothing or jewelry. Keep hair, clothing, and gloves away from moving parts.
7. Use Dust Collection Systems. If dust collection systems are provided, use them correctly to reduce dust-related hazards.

Power Tool Use and Care

1. Use the Right Tool for the Job. Do not force the tool. The correct tool will work better and safer.
2. Repair Faulty Switches. Do not use the tool if the switch does not turn it on and off.
3. Disconnect Before Adjustments. Unplug the tool or remove the battery before making adjustments, changing accessories, or storing the tool. This prevents accidental starts.
4. Store Tools Safely. Keep idle tools out of reach of children. Do not allow untrained individuals to use the tool.
5. Maintain Tools Properly. Check for misalignment, binding, and breakage. Repair damaged tools before use.
6. Keep Cutting Tools Sharp and Clean. Sharp tools are less likely to bind and are easier to control.
7. Use Tools as Intended. Use the tool, accessories, and bits according to these instructions and the intended application. Using tools for unintended purposes can be hazardous.

Service

- Qualified Service Only. Have your tool serviced by a qualified repair person using identical replacement parts. This ensures continued safety.

Router-Specific Safety Warnings

WARNING: Risk of Electric Shock.

- Hold the router by insulated gripping surfaces only, as the cutter may contact its own cord. Cutting a "live" wire can make exposed metal parts of the tool "live," causing electric shock.
- If the power cord needs replacement, it must be done by the manufacturer or their authorized agent to prevent a safety hazard.
- Use a residual current device (RCD) with a rated residual current of 30 mA or less.

WARNING: Risk of Injury and Loss of Control.

- Secure the workpiece with clamps or another stable method. Holding the work by hand or against your body is unstable and can lead to loss of control.
- Always use both handles and maintain a firm grip on the router.
- Keep handles and gripping surfaces dry, clean, and free of oil and grease for a secure grip.

- Remove any adjusting keys or wrenches before turning the router on.
- Do not overreach. Maintain proper footing and balance.
- Never start the router while the cutter is touching the workpiece.
- Keep your hands away from the routing area and cutter. Hold the auxiliary handle or an insulated gripping surface with your second hand.
- Keep pressure constant while cutting, allowing the cutter to dictate the speed. Do not force the tool or overload the motor.
- Be prepared for the cutter to stall in the workpiece, causing loss of control. In this case, hold the router firmly and immediately release the on/off switch.
- Always switch off and wait for the cutter to stop completely before removing the router from the workpiece.
- Disconnect the router from the power supply before making any adjustments, servicing, or maintenance.
- Use extreme care when using cutters with a diameter greater than 50mm. Use very slow feed rates and/or multiple shallow cuts.
- Ensure the plunge spring is always fitted when using hand-held routers.
    - Ensure the cutter has completely stopped before plunging to the collet lock position.
    - Do not press the spindle lock button or attempt to switch to bit change mode while the router is operating.
    - After switching on the router, check the router bit is rotating evenly (not ‘wobbling’) and there is no additional vibration due to the router bit being incorrectly fitted.

WARNING: Router Bit Safety.

- Handle router bits with care; they are extremely sharp.
- Before use, inspect bits for damage or cracks. Replace damaged bits immediately.
- Ensure router cutters/bits are sharp and maintained correctly. Dull cutting edges can lead to uncontrolled situations.
- The maximum speed of the router bit/cutter must be at least as high as the maximum speed of the router.
- The shank size of the router cutter/bit must match the collet size exactly. Incorrectly fitted bits can rotate irregularly and increase vibration, leading to loss of control.

WARNING: General Safety Practices.

- Use safety equipment, including safety goggles or a shield, ear protection, a dust mask, and protective clothing, including safety gloves.
- Never leave cloths, cords, strings, etc., around the work area.
- Ensure the mains supply voltage matches the tool's rating plate voltage.
- Ensure any extension cords are in safe electrical condition and have the correct ampere rating.
- Completely unwind cable drum extensions to avoid overheating.
- Use detectors to locate utility cables or pipes before working. Consult utility companies if needed. Contact with utilities can cause electric shock, fire, explosion, or property damage.
- Remove embedded objects like nails and screws from the workpiece before starting.
- Before using the router to make a cut, switch it on and let it run briefly. Vibration may indicate an improperly installed bit.
- Note the direction of rotation of the bit and the direction of feed.
- Parts of router bits may become hot during operation. Do not handle immediately after use to avoid burns.
- Do not allow parts to contact combustible materials.
- Ensure rating labels and safety warnings on the tool remain legible and replace them if damaged.
- Even when used as prescribed, residual risks remain. If you have any doubts about safe use, do not use the tool.

WARNING: Dust Hazards.

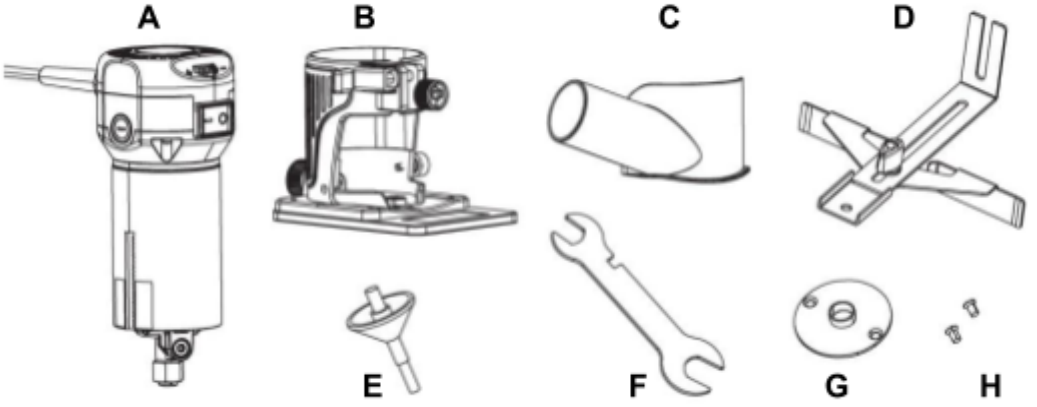
- Dust generated by power tools can be toxic. Some materials may be chemically treated or coated, posing a toxic hazard.
- Avoid prolonged exposure to router dust. Do not allow dust to contact skin or eyes, and do not ingest it.
- Work in a well-ventilated area.
- Use a suitable dust mask and dust extraction system where possible.
- With higher frequency of exposure, follow all safety precautions and use a higher level of personal protection.

Unpacking and Inspection

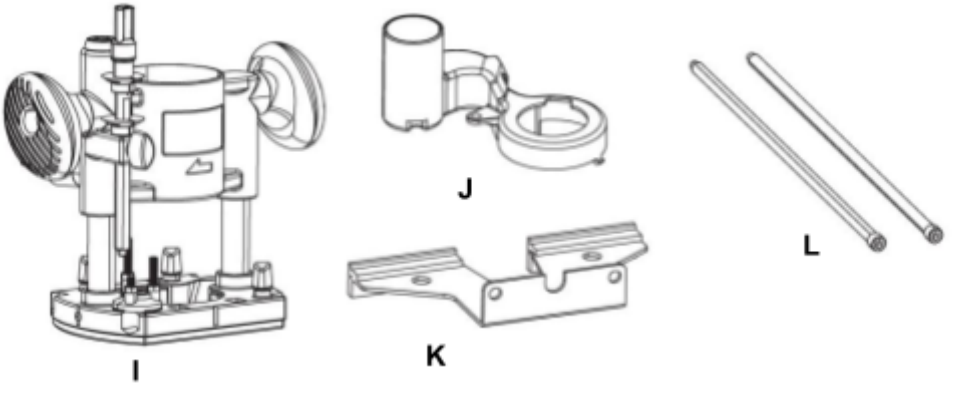
- **RT-001 contents: A, B, C, D, E, F, G, H**
- **RT-001B contents: I, J, K, L**

1. **Carefully Unpack Your ROUTECH Router:** Remove all packaging materials and inspect the router and its components for any damage.
2. **Familiarize Yourself with Your Router**: Take time to understand all the features and functions of your ROUTECH router as described in this manual.
3. **Verify All Components Are Present**: Check the contents of the package against the parts list (refer to section [insert section number or page number here] of this manual). Ensure all listed items are present and in good condition.
4. **Report Missing or Damaged Parts**: If any parts are missing or damaged, do not attempt to use the router. Contact ROUTECH customer service or your retailer immediately for assistance and replacement parts.

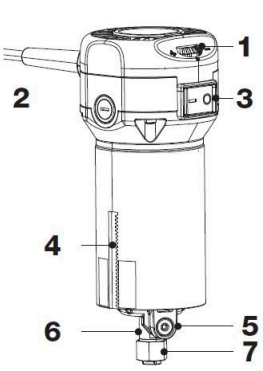
- **RT-001M include:** A. 1x Motor body; B. 1x Trim base C. 1x Trim base dust extraction spout; D. 1x Trim base side fence; E. 1x Centring pin & cone; F. 1x Multi-functional spanner; G. 1x 16mm guide bush; H. 2x Guide bush screws

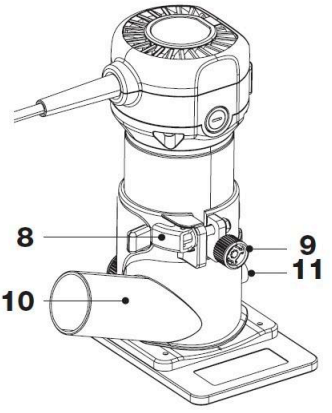


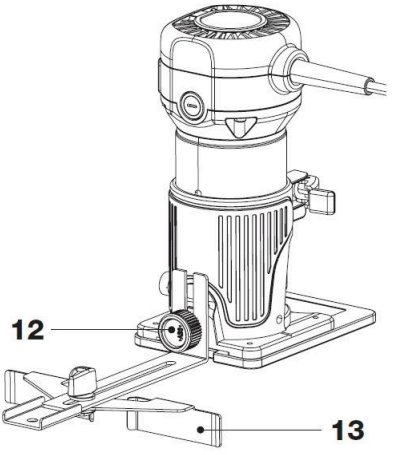
- **RT-003B box includes:** I. 1x Plunge base; J. 1x Plunge base dust extraction spout; K. 1x Plunge base side fence; L. 2x Plunge base side fence rods

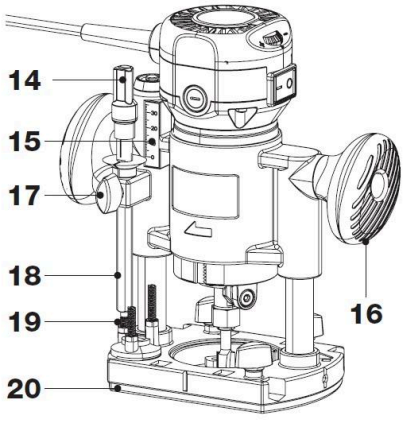


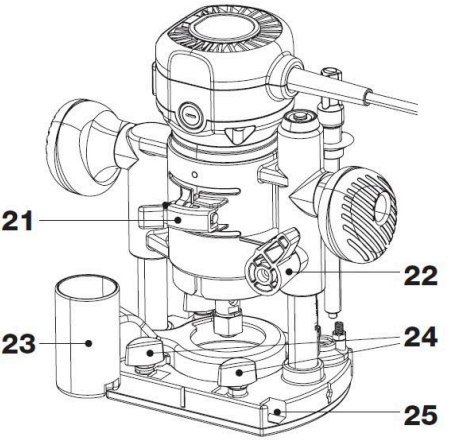
Description of Parts (not all included)











1. Variable speed dial
2. Power cable with plug
3. Power switch
4. Motor body rack
5. Spindle
6. Spindle lock
7. Collet
8. Trim base locking knob
9. Trim base height adjustment knob
10. Trim base dust extraction spout
11. Trim base dust extraction spout knob
12. Trim Base Fence locking knob
13. Trim Base Side Fence
14. Depth stop micro-adjustment knob
15. Depth stop indicator
16. Handles
17. Depth stop locking knob
18. Depth stop
19. Turret stops
20. Sub-base
21. Plunge base body clamp
22. Plunge locking lever
23. Plunge base dust extraction spout
24. Plunge base side fence clamps
25. Plunge base side fence rod holes

Intended Use

This ROUTECH router is designed for use within a fixed-base or a plunge base to perform the following woodworking operations:

- Cutting profiles, grooves, and edges in natural wood, composite materials, and plastics.
- Utilizing guide bushes and templates for cutting shapes and following patterns.

This tool is specifically designed for use with router bits intended for woodworking applications. It is not suitable for use with accessories or bits designed for other purposes, such as grinding or sanding.
Important: This router is designed for hobbyist and DIY use, and is not intended for continuous commercial or industrial applications.
Misuse and Modifications: The ROUTECH router must only be used for its intended purpose as outlined in this manual. Any use outside of these specifications will be considered misuse. The operator assumes full responsibility for any damage or injury resulting from misuse. The manufacturer is not liable for any modifications made to the tool, nor for any damage resulting from such modifications.

Before Operation

Power & Safety First

WARNING: Always disconnect your ROUTECH router from the power supply before attaching or changing any accessories, or making any adjustments. This prevents accidental startup and potential serious injury.

Proper Hand Position

WARNING: Always maintain a secure grip on the router to anticipate any sudden movement or kickback. This is crucial for your safety and control. (Fig. 1 a and b)
When using the plunge base: Place both hands firmly on the two handles of the plunge base.
When using the trim base: Place one hand on the comfort grip and the other hand firmly on the base, pressing it against the workpiece.

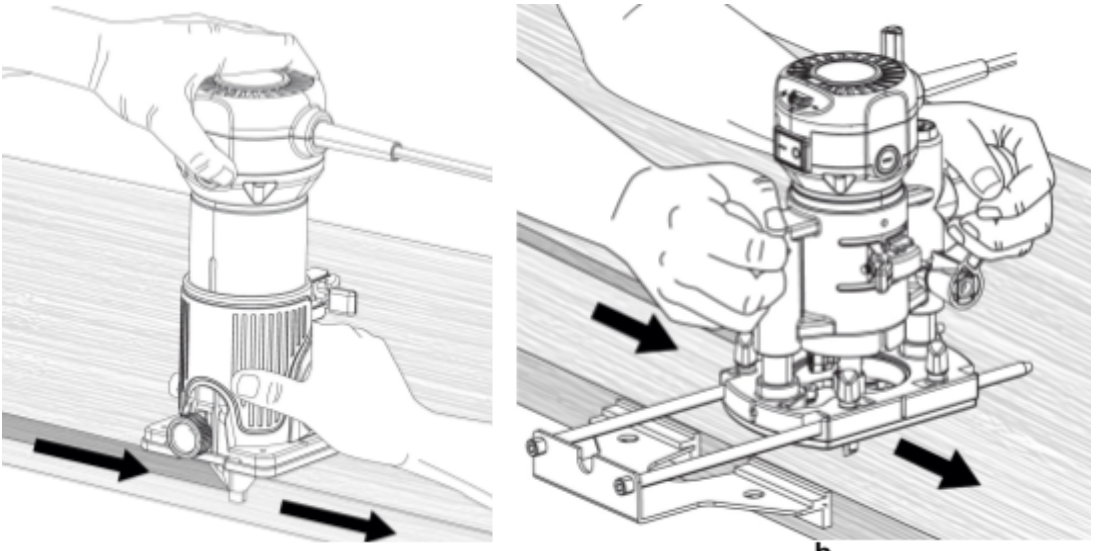


Fig. 1

Cooling Down the Machine

CAUTION: If you've been working for long periods at low speeds, the router can heat up. To cool it down effectively and prevent damage, run the machine for three minutes at maximum speed with no load (no bit in contact with a workpiece).

WARNING: When routing with the plunge base, always ensure the plunge locking lever is engaged and locked. This prevents unintended movement during operation.
For best results when edge moulding natural timbers, always rout the end grain first, followed immediately by routing the long grain. This skill ensures that any potential "breakout" (small chips) that might occur on the end grain will be cleanly removed when you rout the long grain, resulting in a cleaner finish.

Operation Instruction

Installing & Removing Cutters

Always prioritize safety: Before doing any work on the tool, ensure it's switched off and unplugged to prevent accidental startup.
Important Warnings:

- Never tighten the collet without a cutter inserted.
- Always match the cutter shank's diameter to your collet's size.
- Exercise caution when removing cutters to avoid cuts to your fingers.

Inserting a Cutter (Fig. 2)

For convenience, you can stand the router upside down on a stable surface while changing cutters.

1. Insert the cutter's shank into the collet.
2. Press and hold the spindle lock button.
3. Rotate the spindle until it engages and locks.
4. Firmly tighten the collet nut using the supplied spanner.

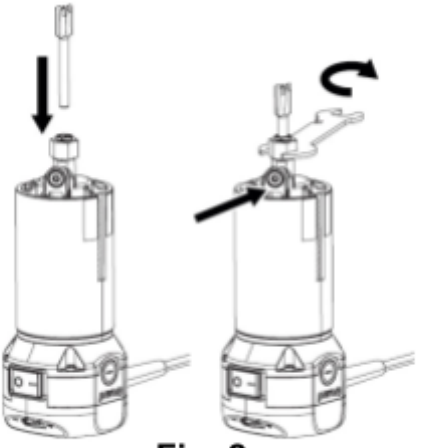


Fig. 2

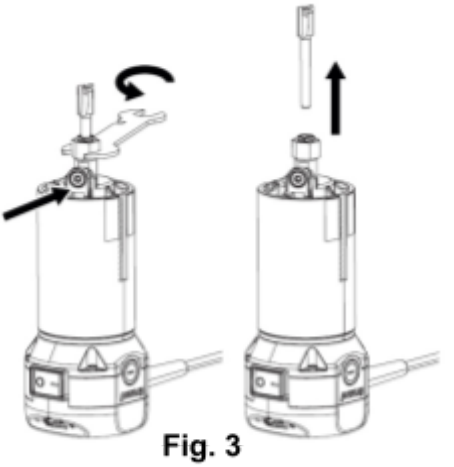


Fig. 3

Removing a Cutter (Fig. 3)

1. Press and hold the spindle lock button.
2. Rotate the spindle until it engages and locks.
3. Using the supplied spanner, turn the collet nut counter-clockwise. You'll feel it tighten briefly, then loosen again.
4. Once loose, the cutter will slide out.

Pro Tip: After each use, remove the cutter and store it safely to maintain its sharpness and prevent damage**.**

Dust Extraction & Your Safety

Working with materials like wood can generate dust that's harmful to your health. Inhaling this dust can cause allergic reactions, respiratory infections, and some types, like oak or beech dust, are even considered carcinogenic, especially when combined with wood treatment additives.
Always prioritize your safety:

- Observe local regulations in your country regarding the materials you're working with.
- The vacuum cleaner you use must be suitable for the material. For dry dust that's particularly detrimental to health or carcinogenic, use a dust class M vacuum cleaner.

Critical Warnings

- Risk of dust inhalation: To significantly reduce the risk of personal injury, always wear an approved dust mask.
- Use a proper extractor: When sawing wood, always use a vacuum extractor designed to comply with applicable directives on dust emission. Most standard vacuum hoses will connect directly to the router's dust extraction outlet.

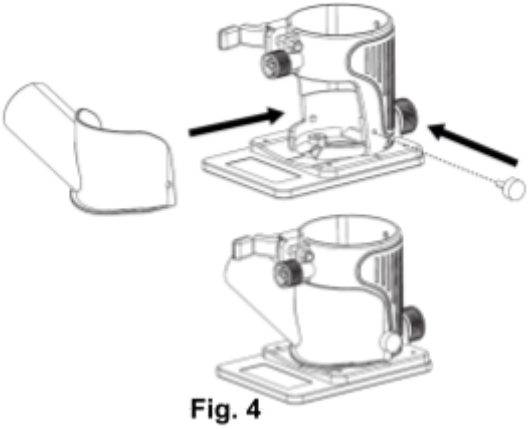


Fig. 4

Attaching the Dust Extraction Spout to the Trim Base (Fig. 4)

1. Remove the dust extraction spout knob from the base.

2. Attach the dust extraction spout. Make sure the pin on its left-hand side fits into the corresponding hole on the side of the base.
3. Secure the spout by tightening the dust extraction spout knob.
4. To remove, simply unscrew the knob and detach the spout.

Important: Always ensure the dust extraction spout is connected to a suitable dust extractor while you're using the tool.

Connecting Your Dust Extractor Hose

Connect your dust extractor hose directly to the router's dust extraction spout. Most vacuum extractor hoses will fit.

Note: Position your dust extractor carefully. Ensure it's out of the way and secure so it won't tip over or interfere with your router or workpiece. Likewise, arrange the dust extractor hose and power cord so they don't get in the way. If proper positioning isn't possible, it's safer to remove the dust extractor system.

Important Safety Note

CAUTION: Before operating the tool with the trim base, always ensure the dust spout has been correctly installed.

Installing the Motor Body into the Trim Base & Adjusting Cutting Depth (Fig. 5)

1. Open the lock lever on the trim base.
2. Ensure the spindle lock button on the motor body is facing forward, then carefully insert the motor body into the base. The trim base pinion will automatically engage with the rack on the motor.
3. To set or adjust the router's height, turn the trim base height adjustment knob clockwise to lower the router into the base.
4. Once the desired depth is set, close the lock lever to secure the motor body.
5. To remove the motor body from the base, simply follow these steps in reverse.

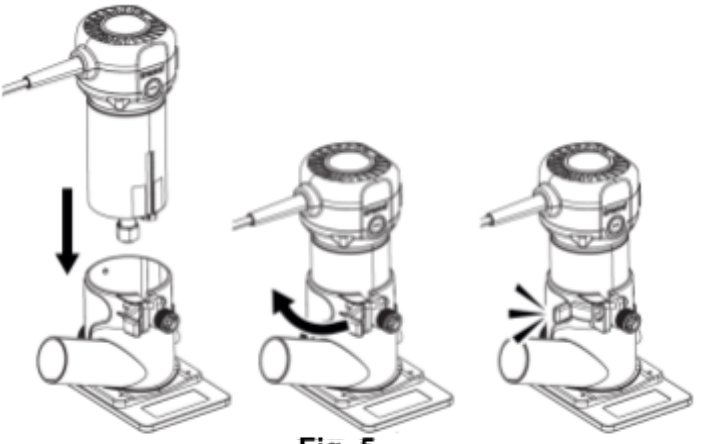


Fig. 5

Adjusting the Locking Clamp Lever's Clamping Force

If you need to adjust how tightly the lock lever clamps, follow these steps:

1. Open the body clamp.
2. Using a hex spanner, turn the adjustment screw in small increments.
   - Turning the screw clockwise will tighten the lever's clamping force.
   - Turning the screw anticlockwise will loosen the lever's clamping force.

Centering the Sub-Base of the Trim Base (Fig.6)

For accurate routing, it's crucial that your router cutter is perfectly centered within the sub-base hole. Here's how to achieve that:

1. Insert the centering pin into the collet and tighten the collet nut.
2. Loosen, but don't remove, the four screws holding the sub-base. This should allow the sub-base to move freely from side to side.
3. Place the cone onto the pin and gently press down on the cone until it meets the sub-base. This action will perfectly center the cutter within the sub-base.
4. While continuing to hold down on the cone, tighten all four sub-base screws securely.

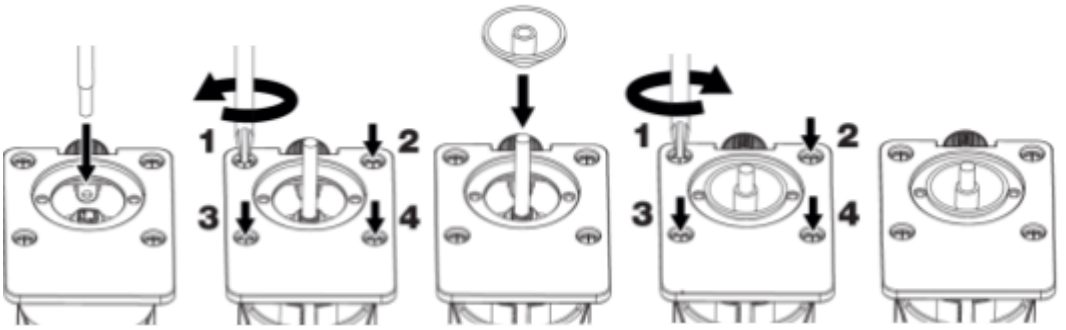


Fig. 6

Cutting with the Trim Base Fitted (Fig. 1-a)

1. Position the tool base on your workpiece, ensuring the trimmer cutter isn't touching anything.
2. Turn the tool on and wait for the cutter to reach full speed.
3. Move the tool forward smoothly over the workpiece surface.
4. Keep the tool base flush against the workpiece as you move.
5. When cutting an edge, always keep the workpiece surface on the left side of the trimmer cutter in the feed direction.

Pro Tip: Before making a final cut on your actual workpiece, it's always a good idea to perform a sample cut. The ideal feed speed depends on the cutter size, workpiece material, and cut depth. Moving too fast can result in a poor-quality cut or damage to the cutter/motor, while moving too slowly might burn or mar the cutting surface.

Important Notice: To avoid overloading the motor or losing control of the tool, do not exceed a cutting depth of 3 mm per pass when cutting grooves. For deeper grooves, make several passes, increasing the cutter depth progressively with each pass.

Remember: Always feed the router in the direction opposite to the cutter's rotation.

Attaching the Side Fence to the Trim Base (Fig. 7)

1. Assemble the straight guide using the bolt and knob provided.
2. Attach the assembled straight guide to the trim base as shown in the diagram and tighten the locking knob to secure it.

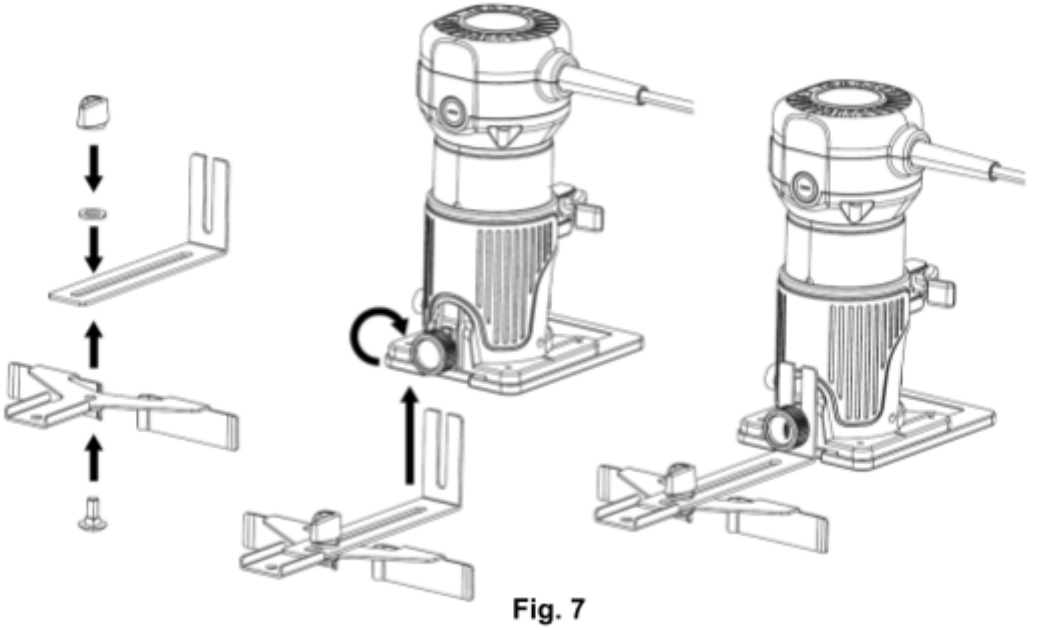


Fig. 7

Using the Side Fence with the Trim Base

The side fence is ideal for guiding your router parallel to the edge of your workpiece, ensuring straight and consistent cuts.

1. Loosen the knob on the side fence.
2. Adjust the router's position until the cutter is at your desired cutting line.
3. Tighten the knob securely to lock the side fence in place.
4. As you rout, keep the parallel side fence held flush against the side of your workpiece.

Important Note: Always feed the router in the direction opposite to the way the cutter is rotating. This helps maintain control and provides a cleaner cut.

Attaching a Guide Bush to the Trim Base

(Fig. 8)

A guide bush is an essential accessory that lets you use your router with various jigs and templates for precise, repeatable cuts.

1. Place the guide bush into the designated recess on the underside of the trim base.
2. Secure the guide bush firmly in place using the two provided fixing screws.

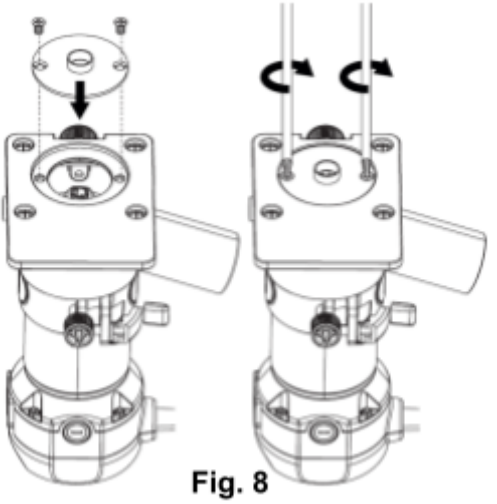


Fig. 8

Using a Guide Bush with the Trim Base

1. Choose a cutter that has a smaller diameter than the guide bush's inner opening, ensuring enough clearance for the cutter to pass through freely.
2. Set your desired cutter depth for the cut.
3. Position the guide bush against your template, making sure it's properly located.
4. Switch on the router.
5. Feed the router in the direction shown in your specific jig or template instructions.
   Note: Always feed the router opposite to the direction in which the cutter is rotating. This is crucial for control and cut quality.
6. Once you've completed your cut, switch off the machine.

Powering On/Off

Critical Safety Reminder: Before making any adjustments, or installing/removing attachments, always turn the unit off and disconnect it from the power source. Accidental startup can cause serious injury.

- To turn the unit on, push the power button to the 'I' position.
- To turn the unit off, push the power button to the 'O' position.

Before you start: Clear your work area of all foreign objects. When powering on, maintain a firm grip on the tool to control the starting torque.

After use: Always allow the spindle to come to a complete stop before setting the tool down to prevent personal injury or damage to your work.

Variable Speed Control

Adjust the tool's rotation speed using the variable speed dial.

Important Safety Note: If the speed control stops working or becomes intermittent, immediately stop using it and contact the seller for repair.

- The speed at which the cutter is fed into the workpiece must not be too fast that the motor slows down, or too slow that the cutter leaves burn marks on the face of the wood. Practice judging the speed by listening to the sound of the motor when routing.
- The rotation speed of the tool can be changed by turning the variable speed dial. The table below shows the number on the dial and the corresponding rotation speed.

Speed Settings (RPM):	
Setting	**Speed (RPM)**
1	10000
2	13000
3	17000
4	22000
5	26000
6	30000

INSTRUCTIONS FOR PLUNGE ROUTER ONLY (RT-003B)

Attaching the Dust Extraction Spout to the Plunge Base (Fig. 9)

Keep your workspace cleaner and reduce dust inhalation by properly attaching the dust extraction spout to your plunge base.

1. While holding the tool, simply attach the dust extraction spout into the plunge base.
2. Tighten the fixing knob to secure it in place.
3. For effective dust collection, connect the spout to a suitable dust extractor using your dust extractor hose and a power tool adaptor.
4. To remove the dust extraction spout, unscrew the fixing knob and detach the spout.

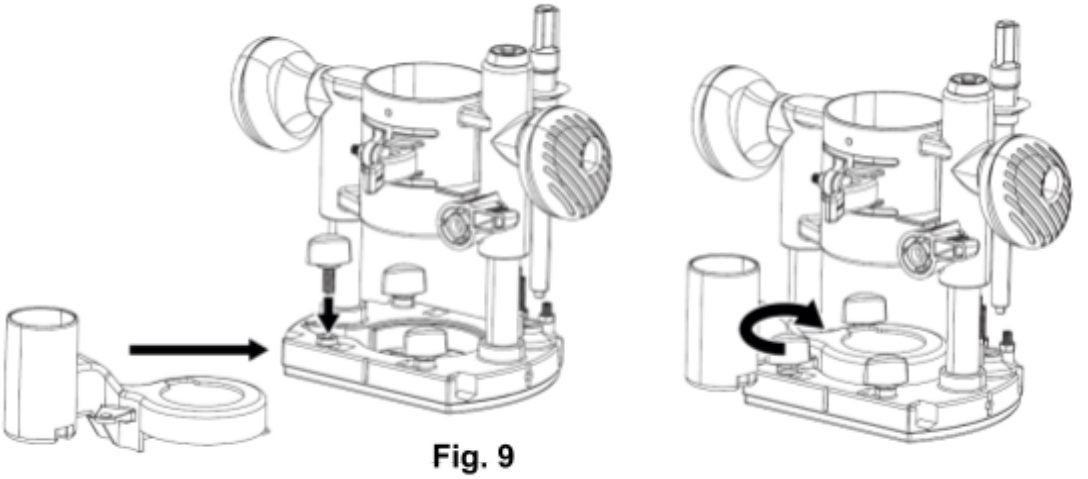


Fig. 9

Inserting the Motor Body into the Plunge Base (Fig. 10)

Here's how to properly install your router's motor body into the plunge base for secure and effective operation:

1. Open the lock lever on the plunge base.
2. Ensure the spindle lock button on the motor body is facing forward, then carefully insert the motor body into the base.
3. Close the lock lever to securely clamp the motor body in position.

Adjusting the Locking Clamp Lever's Clamping Force

If the lock lever's clamping force feels too loose or too tight:

1. Open the body clamp.
2. Using a hex spanner, turn the adjustment screw in small increments.
   - Turning the screw clockwise will tighten the lever's clamping force.
   - Turning the screw anticlockwise will loosen it.

To remove the motor body from the plunge base, simply follow these installation steps in reverse.

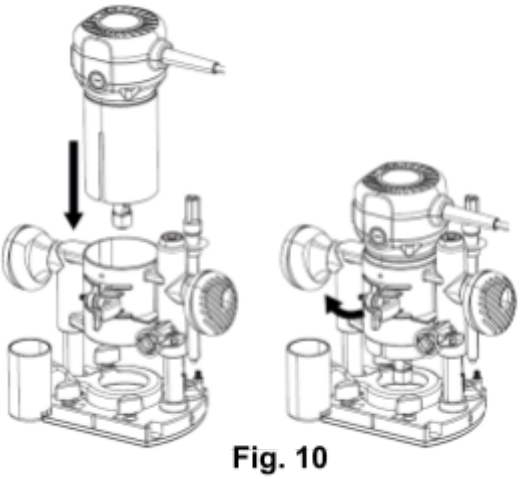


Fig. 10

Important Safety Note

CAUTION: Before using the tool with the plunge base, always ensure the dust spout has been properly installed. This helps protect your health and keeps your work area tidy.

Using the Plunge Locking Lever on the Plunge Base (Fig. 11)

The plunge locking lever lets you set and secure your desired cutting depth, ensuring precise and consistent results.

1. Push down on the handles of the plunge base until the router bit reaches the required cutting depth.
2. Once at depth, push the locking lever down firmly to lock the plunge mechanism in place.
3. After clamping, the motor should not move within the base.

Important Adjustment: If the locking lever won't clamp without excessive force, or if the motor still moves in the base after you've clamped it, an adjustment is needed. Refer back to the "Adjusting the Locking Clamp Lever's Clamping Force" section (Page [Insert Page Number Here, or cross-reference previous section]) for instructions.

CAUTION: Never use excessive force to clamp the locking lever. Doing so can cause damage to the base.

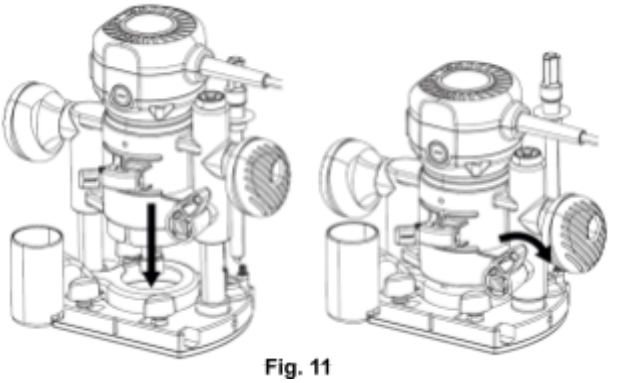


Fig. 11

Centering the Sub-Base of the Plunge Base (Fig. 12)

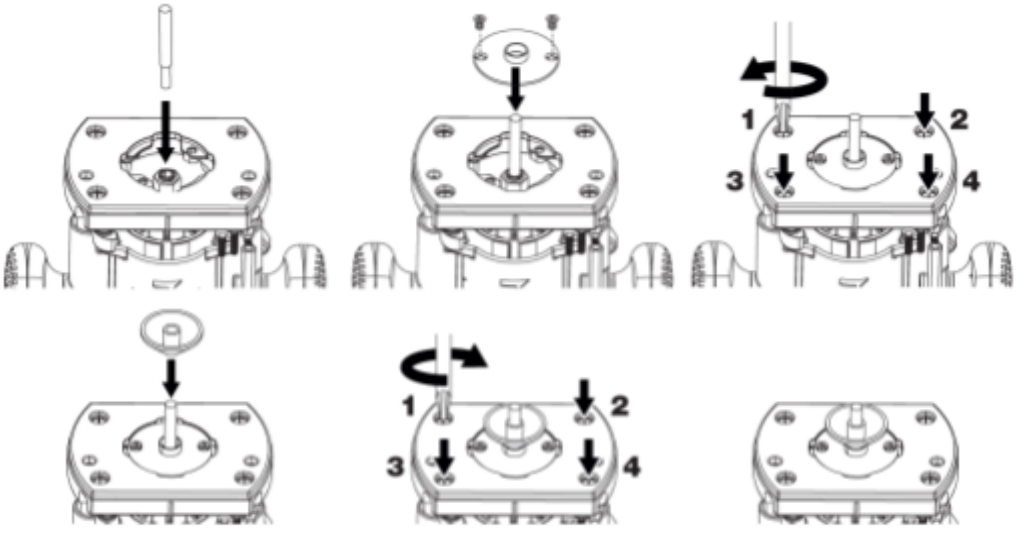


Fig. 12

For precise routing, it's essential that your router cutter is perfectly centered within the sub-base hole. Here's how to achieve that:

1. Insert the centering pin into the collet and tighten the collet nut securely.
2. Place the guide bush into the recess on the underside of the base, and secure it with the two fixing screws.
3. Loosen, but do not remove, the four screws holding the sub-base. This should allow the sub-base to move freely.
4. Place the cone onto the pin and gently press down on the cone until it meets the guide bush. This action will perfectly center the cutter within the sub-base.
5. While keeping pressure on the cone, tighten all four sub-base screws securely.

Cutting with the Plunge Base Fitted (Self-Guided Cutter) (Fig. 13)

When using a self-guided cutter (one with a ball bearing or pilot), the bearing acts as your guide against the material edge.

1. Plunge the router down until the cutter reaches your set depth.
2. Lock the plunge locking lever to secure the depth.
3. As you cut, ensure the workpiece surface remains on the

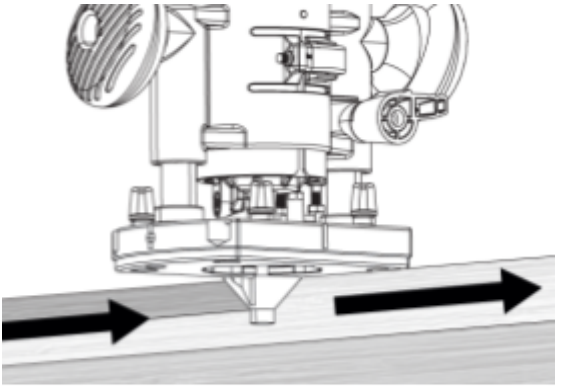


Fig. 13

left side of the cutter in the direction you're feeding the tool.

4. Perform the cut smoothly.
5. At the end of the cut, release the plunge locking lever and let the router return to the top of its plunge travel.
6. Turn the router off.

Pro Tip: Always make a sample cut on scrap material before working on your final workpiece. The right feed speed depends on the cutter size, material type, and cut depth. Moving too fast can result in a poor cut or damage the cutter/motor. Moving too slowly might burn or mar the cutting surface.

Assembling the Side Fence to the Plunge Base (Fig. 14)

The side fence is a crucial accessory for making straight, consistent cuts parallel to the edge of your workpiece.

1. Screw the guide rods into the side fence. Use the notch on the side of the provided spanner to tighten them securely.
2. Loosen the thumb knobs on the plunge base.
3. Slide the guide rods into the corresponding holes on the plunge base.
4. Tighten the thumb knobs to firmly lock the side fence in position.

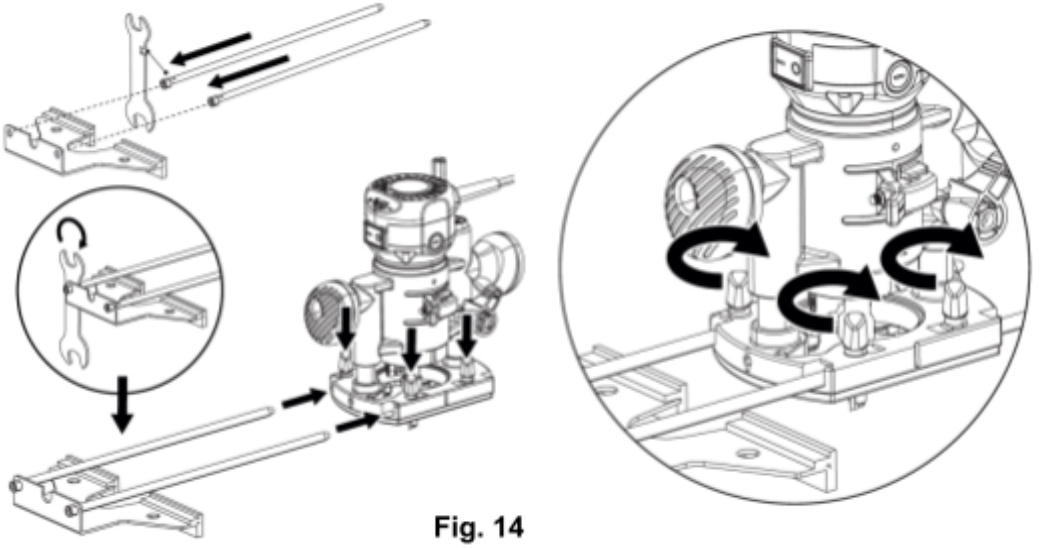


Fig. 14

Using the Side Fence with the Plunge Base (Fig. 15)

The side fence is great for maintaining consistent parallel cuts with your plunge base.

1. Loosen the knob on the side fence.
2. Adjust the router's position until the cutter is at your desired cutting line.
3. Tighten the knob to lock the side fence securely in place.
4. As you rout, keep the parallel side fence flush with the side of your workpiece.

Important Note: Always feed the router in the direction opposite to how the cutter is rotating.

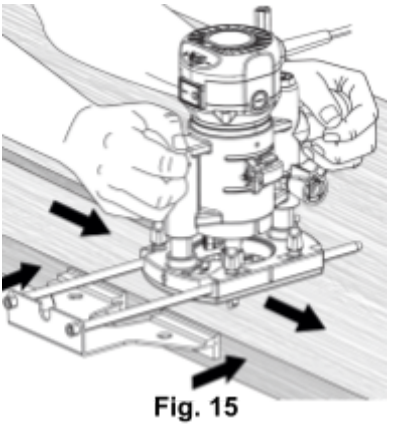


Fig. 15

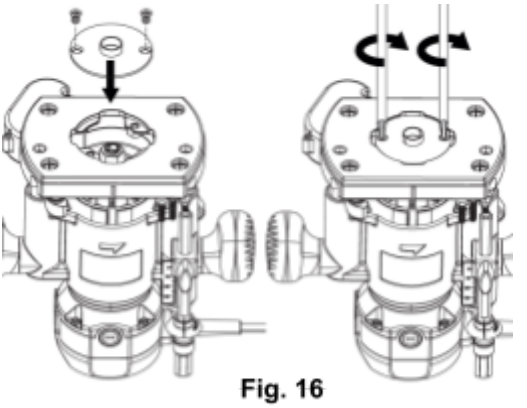


Fig. 16

Attaching & Using a Guide Bush with the Plunge Base (Fig. 16)

A guide bush lets you use your router with jigs and templates for precise, repeatable cuts.

Attaching a Guide Bush

1. Place the guide bush into the recess on the underside of the plunge base.
2. Secure it firmly with the two provided fixing screws.

Using a Guide Bush

1. Choose a cutter with a diameter that allows it to pass freely through the center of the guide bush, with enough clearance.
2. Set your desired cutter depth.
3. Locate the guide bush against your template.
4. Switch on the router.
5. Feed the router in the direction shown by your specific jig or template instructions.
   Note: Always feed the router opposite to the direction in which the cutter is rotating.
6. Once the cut is complete, switch off the machine.

Setting Depth of Cut on the Plunge Base (Fig. 17)

Your plunge base features a rotating turret stop, allowing you to pre-set up to three different depths of cut for efficiency. You can fine-tune its height with a screwdriver and an 8mm A/F spanner.

1. Pre-set the 3-way turret stop to your desired depths.
2. Undo the thumb knob that secures the depth stop.
3. Unlock the plunge locking lever.
4. Slowly lower the machine until the cutter just touches your workpiece, then secure it with the plunge locking lever.
5. Raise the depth stop to achieve your required depth of cut, using the built-in scale for guidance.
6. Clamp it in place with the thumb knob. The gap between the depth stop and the turret stop screw now determines your exact depth of cut.

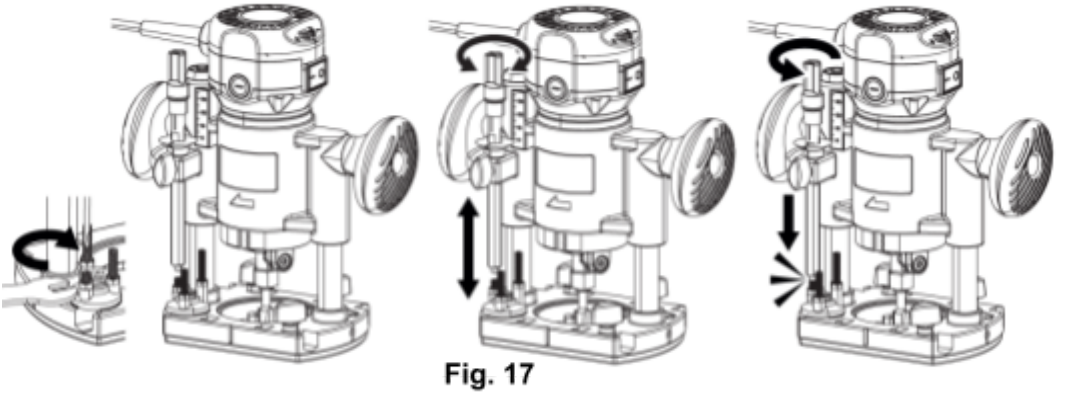


Fig. 17

Micro-Adjustment for Fine Depth

The depth stop also includes a micro-adjustment feature (part 14) for precise depth settings:

- For fine depth adjustment, turn the micro adjuster knob at the top of the depth stop.
- To increase the depth, turn the head anti-clockwise.
- To decrease the depth, turn the head clockwise. One full rotation equals 1mm of adjustment.

Important Safety & Operation Cautions

WARNING: DO NOT change the turret stop while the router is running. This puts your hands dangerously close to the spinning cutter head.
CAUTION: Ensure the plunge locking lever is unlocked before attempting to adjust the fine height adjuster mechanism. Never use unnecessary force when rotating the fine height adjuster.
CAUTION: Always turn the router on before plunging the cutter head into the workpiece. This prevents strain on the motor and potential damage to your material.

Maintenance

WARNING: Disconnect Power Before Maintenance. Always disconnect the router from the power supply before any inspection, maintenance, or cleaning.

General Inspection and Maintenance

- **Check Fasteners Regularly:** Periodically ensure all fixing screws are securely tightened.
- **Inspect Power Cords:** Before each use, carefully inspect the tool's power supply cord for any signs of damage or wear. Repairs should be performed by an authorized service supplier. This also applies to any extension cords used with the tool.

Cleaning and Maintenance

WARNING: Protective Equipment Required. Always wear eye protection and gloves when cleaning this tool.

- **Maintain Tool Cleanliness:** Keep your tool clean to prevent premature wear and extend its service life. Dirt and dust can accelerate the wear of internal components.
- **Surface Cleaning:** Clean the tool's body using a soft brush or dry cloth.
- **Plastic Part Cleaning:** Do not use caustic agents on plastic parts. If dry cleaning is insufficient, use a mild detergent on a damp cloth.
- **Avoid Water Contact:** Never allow water to come into contact with the tool.
- **Ensure Thorough Drying:** Ensure the tool is completely dry before use.
- **Ventilation Cleaning:** If available, use clean, dry, compressed air to blow through the ventilation holes.

Lubrication

- **Lifetime Lubrication:** This ROUTECH router is lubricated with a high-grade lubricant at the factory, designed to last the tool's lifespan under normal operating conditions. No further lubrication is required.

Troubleshooting

Problem	Possible cause	Solution
No function when ON/ OFF Rocker Switch (8) is operated	1. No power 2. Defective ON/OFF Rocker Switch	1. Check power supply 2. Replace the ON/OFF Rocker Switch at an authorised Triton service centre
Inaccurate cutting profile	Incorrectly fitted or loose router bit/Collet (11)	Tighten router bit/Collet and cutter assembly
Router will not operate	1. No supply of power 2. Brushes worn or sticking 3. Switch is faulty 4. Motor components faulty or short circuited	1. Check that power is available at the source 2. Disconnect power, open Brush Access Covers (3) and ensure brushes are not damaged or heavily worn 3/4. Have the tool serviced by an authorised service centre
Router runs or cuts slowly	1. Blunt or damaged cutter 2. Speed Controller (8) set low 3. Motor is overloaded	1. Re-sharpen or replace cutter 2. Increase variable speed setting 3. Reduce pushing force on router
Excessive vibration	1. Incorrectly fitted or loose router bit 2. Bent or damaged router bit	1. Refit or tighten router bit 2. Replace router bit
Heavy sparking occurs inside motor housing	1. Brushes not moving freely 2. Damaged or worn motor	1. Disconnect power, remove brushes, clean or replace 2. Have the tool serviced by an authorised Triton service centre
Unusual sound	1. Mechanical obstruction 2. Damage to internal windings	Stop use it. Contact us

Contact

For technical or repair service advice, please contact us online
Web: www.igoootools.com
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