14x21cm

ROUTECH

RT-004
2400W/3.25HP Plunge 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.

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 (vibration magnitude)

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 durations.

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.

Applications and Technical Parameters

The **ROUTECH RT-004** is a handheld electric router, powered by a 2400W motor, designed for a wide range of cutting tasks. It's a versatile tool perfect for working with natural wood, composite materials (like chipboard, MDF, and OSB), and laminate.:

- **Profiling and Grooving:** Cut various profiles, grooves, and edges in wood, composites, and plastics.
- **Pattern Cutting**: Utilize guide bushes and templates to precisely cut shapes and following patterns.
- **Table Mounting**: This router can also be installed stationary within compatible router table systems.

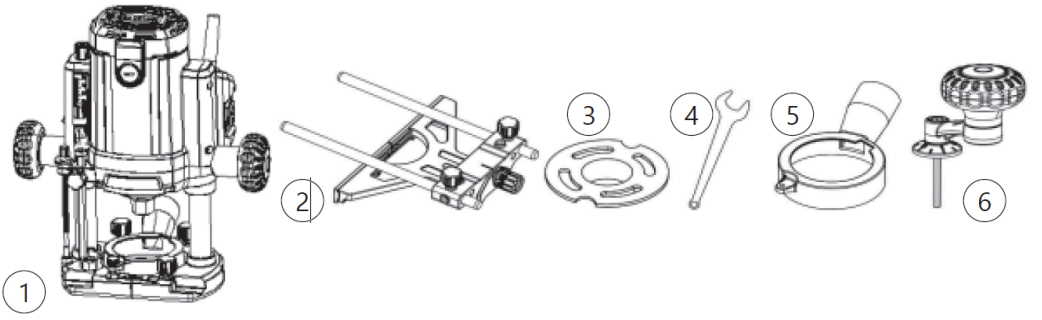
This tool is specifically designed for use with router bits intended for woodworking applications. It is not suitable for use with accessories or bits designed for other purposes, such as grinding or sanding. **Important:** This router is designed for hobbyists and DIY use, and is not intended for continuous 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.

Model no:	RT-004
Voltage:	110-120V/50-60Hz
Output power:	2400W
Input power:	15A
No load speed(RPM):	8000-21000
6 speed setting(RPM):	1) 8000 2) 10000 3) 12000 4) 15000 5) 18000 6) 21000
Collet size:	½" and ¼"
Max. cut diameter:	2.75"
Max cutter shank:	**1⁄2"**
Depth adjustment range:	3.15"
Dust extraction port dimensions:	Inner:35mm / Outer:39mm
Ingress protection:	IPX0
Protection class:	⧈
Dimensions (L x W x H):	30.4 x 12.8x 32.5cm
Weight(Gross/Net):	7.5kg/8.2kg
As part of our ongoing product development, specifications of ROUTECH products may alter without notice.	
Sound and vibration information:	
Sound pressure LPA:	84dB(A)
Sound power LWA:	95.3dB(A)
Uncertainty K:	3dB
Weighted vibration	3.27m/s2
Uncertainty	2.5m/s2
Warning: The sound intensity level for the operator may exceed 85dB(A) and sound protection measures are necessary.	

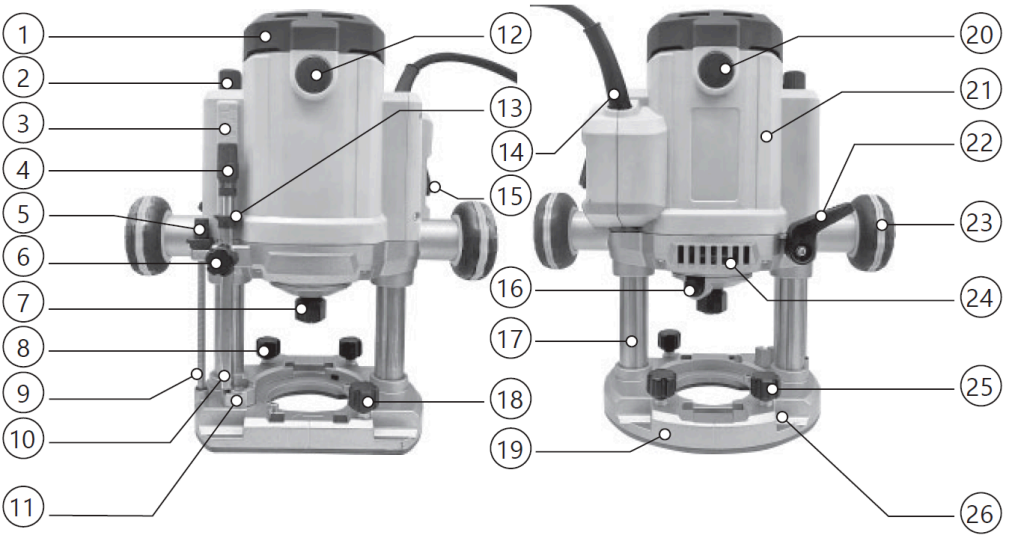
Unpacking and Inspection

- **Carefully Unpack Your ROUTECH Router:** Remove all packaging materials and inspect the router and its components for any damage.
- **Familiarize Yourself with Your Router**: Take time to understand all the features and functions of your ROUTECH router as described in this manual.
- **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.
- **Report Missing or Damaged Parts**: Do not attempt to use the router if any parts are missing or damaged. Contact ROUTECH customer service or your retailer immediately for assistance and replacement parts.



1X **Router body**
1X **Side guide fence assembly**
1X **Guide bush**
1X **Spanner**
1X **Dust spout**
1X **Rotary handle with key**
1X **User manual**

Description of Parts



1 – Motor cover
2 – Position screw
3 – Cutting depth scale
4 – Fine cutting depth adjustment regulator
5 – Adjusting screw stop
6 – Cutting depth stop lock
7 – Collet nut
8, 18, 25 – Side fence stop position lock
9 – Cutter extension adjustment screw
10 – Cutting depth stop
11 – Turret stop (5-position)
12, 20 – Carbon brush cover
13 – Cutting depth indicator
14 – Power cable
15 – On/Off switch
16 – Spindle lock button
17 – Guide stand
19 – Support plate
21 – Main body
22 – Cutting head position lock lever
23 – Ergonomic handle
24 – Ventilation hole
26 – Hole for installing the parallel stop guide.

Before Operation

Before you assemble and operate your router, please read these instructions and all safety warnings carefully.

1. Unpacking the Tool

- Open the package and check the contents against the provided list.
- Inspect the router for any damage. If you find any damage, report it to the distributor and shipping company immediately.
- Remove any protective grease from the **collet**, **spindle**, and **guides**.
- Apply a light coat of machine oil to the metal surfaces to prevent rust and ensure smooth operation.

2. Installing or Replacing the Cutter

Warning: Always unplug the router from the power supply before changing a bit. Bits can get very hot after use; wait for them to cool down before handling them to avoid burns.

A. Press the **spindle lock button A** (Fig. 1) to secure the spindle.
B. Use the included **wrench** to loosen the **collet nut B** by turning it counter-clockwise.
C. Insert the bit shank into the collet at least 0.8” (or halfway down the shank).
D. While holding the spindle lock button, **tighten the collet nut A** securely with the wrench.
E. Ensure the bit is firmly secured. A loose bit is extremely dangerous.

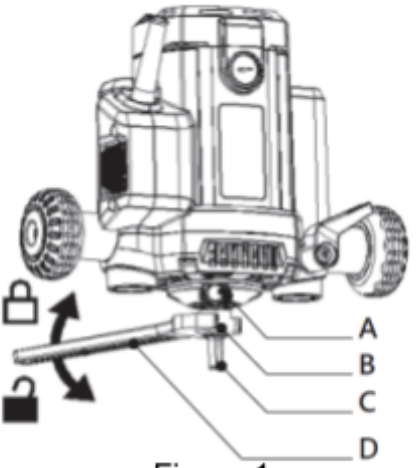


Figure 1

Note: This router only works with bit shanks that have a diameter of ¼” and ½”.

CAUTION! If you are replacing a cutter during operation, remember that it gets hot and trying to remove it immediately after the product has stopped can cause a burn. Wait for the cutter to cool down before replacing it.

3. Installing the Dust Extraction Spout (Figure 2)

A. Unplug the tool.
B. Place the larger end of the **dust spout A** onto the **support plate C**. Ensure the limiter on the spout fits into the special gap on the support plate C.
C. Secure the spout to the support plate with the **screw B**.
D. Connect your dust removal system hose to the spout. The spout has an inner diameter of 35mm and an outer diameter of 39mm. The hose should fit snugly.
E. If you are using a dust bag instead of a vacuum, remember to empty it regularly.

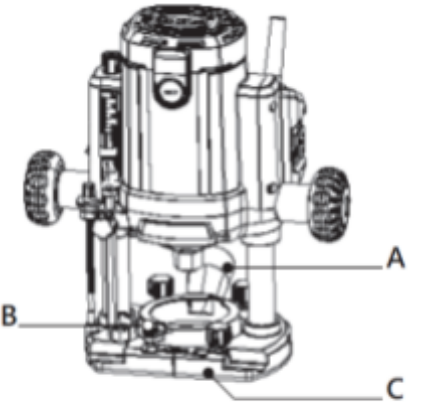


Figure 2

4. Setting Up the Side Fence

The side fence is used to guide the router along a straight line.

A. Insert the **fence guides F** (Fig. 3) into the grooves on the router's **baseplate B**.
B. Adjust the distance between the **fence plane D** and the bit to your desired measurement.
C. Secure the side fence **D** in position by tightening the **clamps A**.
D. During operation, ensure the fence remains pressed firmly against the edge of the workpiece.
E. The extended cheeks on the fence help prevent the router from turning and removing too much material. They can be removed by unscrewing the cheek lock screw if necessary.

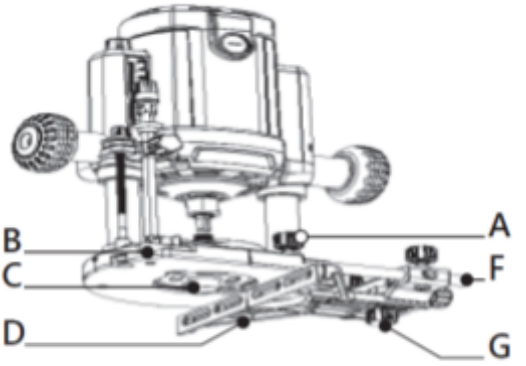


Figure 3

In addition, the parallel stop with long cheeks can be pressed more efficiently to the guide edge. If necessary, they can be removed by unscrewing the cheek **lock screw G**.

5. Installing the Guide Bush

A guide bush is used with a template to cut curved grooves and edges.

A. Turn the router upside down. (Fig. 4)
B. Unscrew the two **screws A** on the back of the baseplate.
C. Install the **guide bush B** and secure it with the removed **screws A**.

Note: Make sure there is a 3-4mm gap between the guide bush and the bit for chip ejection. The guide bush flange and screw heads must be flush with the baseplate.

Before installing, clean the groove of any dust or resin.

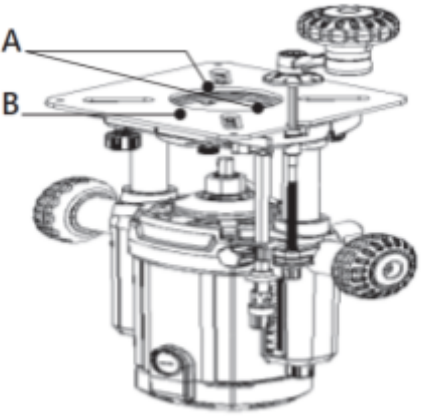


Figure 4

Adjustments

Warning: Always ensure the tool is switched off and unplugged before making any adjustments.

1. Adjusting the Cutting Speed

The cutting speed is adjusted using the **regulator A** (Fig. 5) on the motor cover.

A. You can select one of **6 positions** for speeds between **8,000 and 21,000 RPM**.

B. The correct speed depends on the material and the bit diameter. **The smaller the bit, the higher the speed.**

Warning: To prevent motor overheating, never change the speed while the router is running. Turn it off, adjust the speed, and wait at least 2 minutes before resuming work at a higher speed.

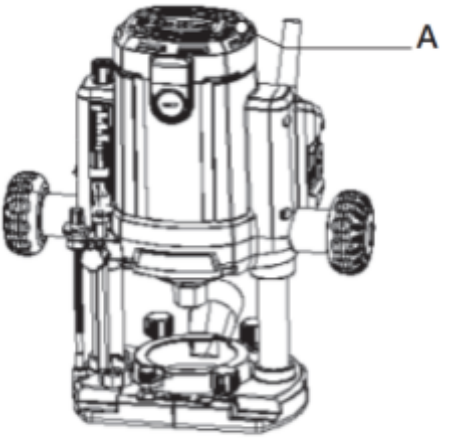


Figure 5

The required speed is set based on the type of wood being processed and the diameter of the cutter. The speed is selected by setting the regulator to one of 6 positions – from the minimum “1” to the maximum “6”. The cutting speed should be set according to the principle - the smaller the cutter, the higher the rotation frequency, otherwise there is a risk of damaging the workpiece, the cutter and the tool itself.

The following table shows the recommended selections of cutting speeds.

Material	Cutting diameter (mm)	Cutting speed
Hardwood	≥20	1,2
	10>Diameter>20	3,4
	≤10	5,6
Softwood	≥20	1,2
	10>Diameter>20	3-6
	≤10	5,6
Aluminum	≥15	1
	≤15	1,2
Plastic	≥15	1,2
		2,3

2. Adjusting the Cutting Depth

Before you begin, make sure the correct bit is installed.

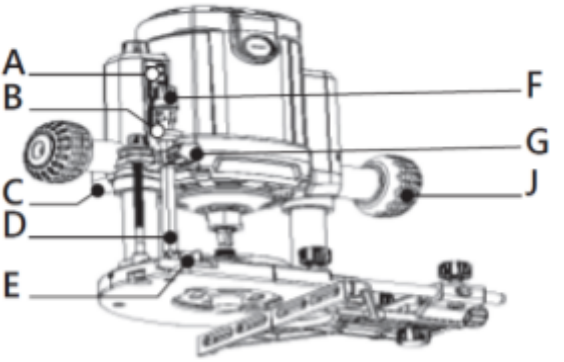


Figure 6

A. To adjust the cutting head position, press the locking **lever C** (Fig. 6). Lower the cutting head to the required height by pressing down on the **ergonomic handles J** and lock its position with **lever C**.
B. Loosen the **locking lever G** of the cutting depth stop.
C. Set the **pointer B** of the cutting depth stop to the required mark, using **scale A** as a guide.
D. Tighten the **locking lever G** of the cutting depth stop.
E. If necessary, use the **regulator F** for fine-tuning the cutting.
F. Press the ergonomic **handles J** and lower the cutting head down until the cutter touches the workpiece.
G. Lock its position with the **lever C**.
H. When adjusting the cutting depth, remember that during the work the required cutting depth is achieved by gradually increasing it.

3. Using the 5-Stage Turret Stop

The router is equipped with a 5-stage **turret stop E**, which allows you to quickly increase the cutting depth without adjusting it in the manner described above.

In this case, first cut at the minimum depth (the first position on the upper part of the **turret stop E**, and then gradually reach the last (fifth) position. With each turn of the **turret stop E**, the milling depth increases by **3 mm**.

Important Warnings

- **Deep Grooves:** When cutting grooves, do not exceed **15 mm in a single pass**. For deeper grooves, make two or three passes, increasing the depth with each pass.
- **Test Cuts:** Always make a test cut on a piece of scrap material to confirm your settings and ensure you get the results you want.
- **Safety:** Incorrect depth adjustment can damage your workpiece.

4. Adjusting the fine cutting adjustment

The fine cutting adjustment **regulator F** (Fig. 6) at the end of the depth stop can be used to make a finer adjustment.

To decrease the cutting depth, turn the knob to the right, to increase it - to the left.

Note: A full turn of the knob corresponds to a depth change of approximately **0.1 mm**.

Adjusting the Sdie Fence

To adjust the distance from the edge of your workpiece:

1. **Loosen the clamps** on both the side fence and the router's baseplate.
2. **Slide the fence** along its guides (and adjust the guides themselves if needed) until it's in the correct position.
3. **Tighten all loosened clamps** on the fence and baseplate to secure it.

Adjusting the Bit Projection

This adjustment sets how far the bit extends from the baseplate.

To set the cutter projection, lay the router on its side or turn it upside down (if it is not secured to a table or workbench).

A. Release the **router depth lock E** (Fig. 7).

B. Using the **rotary knob A** with the key, screw in or out the **adjustment screw C** until the cutter has reached the desired position relative to the **support baseplate B**.

C. Fix the current position of the **router head F** with the **locking lever D** so that the setting obtained does not change during work.

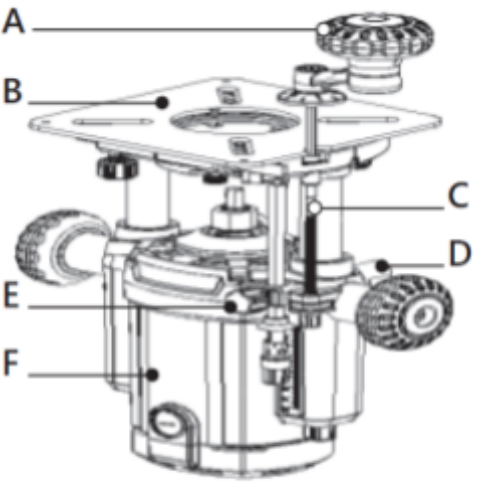


Figure 7

Operation

Warning: Before each use, inspect the tool to ensure all parts are correctly installed, secured, and moving freely.

1. Switching On/Off

- To start the router, press the on/off switch to the "ON" position.
- To turn it off, release the switch to the "OFF" position. **Always hold the tool firmly when turning it off.**

2. Making a Cut

Note: Using Guides. Always use a guide when routing. This can be a bearing-guided router bit, a straight edge, or the guide fence.
Note: Straight Edge Setup. When using a straight edge, calculate the cut position by measuring the distance from the center of the router bit to the outer edge of the router base.
Procedure:

1. **Secure Workpiece and Grip Router:** Hold the router firmly with two hands on the provided handles. Secure the workpiece with clamps whenever possible.
2. **Achieve Full Speed:** Allow the motor to reach its full operating speed before engaging the workpiece.
3. **Engage Workpiece:** Move the router bit smoothly into the workpiece while keeping the baseplate flat against the workpiece.
4. **Edge Cutting Direction:** When edge cutting, the cut should be on the left side relative to the direction of travel (**Figure** 8).
5. **Maintain Constant Pressure and Feed Rate:** Maintain consistent pressure and feed rate, allowing the router bit to cut steadily. Be aware that knots and variations in the wood can slow progress.

Note: Preventing Bit Chatter. To avoid bit chatter, cut **counter-clockwise** for external cuts (**Figure** 8-b, c) and **clockwise** for internal cuts (**Figure** 8-d).
Note: Feed Rate. Moving the router too quickly can result in a poor finish and motor overload. Moving it too slowly can overheat the workpiece.
Note: Router Table Use. Do not operate the router upside down unless it is securely mounted in a well-guarded router table.

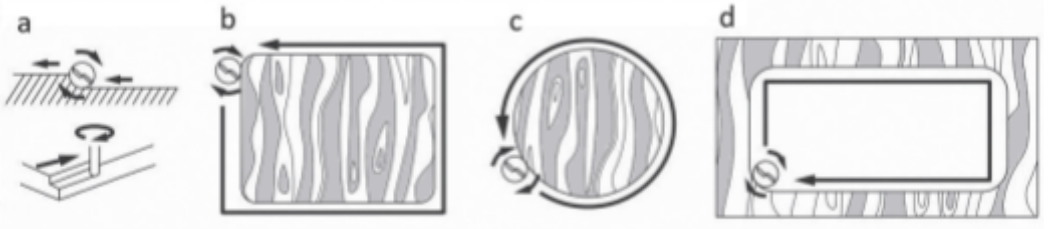


Figure 8

3. Template & guide bush routing (**Figure** 9)

- **Guide Bush Variety:** Various template guide bushes are available for diverse template routing applications.
- **Mounting Plate Setup:** For guide bush mounting plate installation, refer to the "Guide Bush Mounting Plate and Guide Bush Information" section.
- **Template Function:** Templates (**Figure** 9-c), when used with a guide bush (**Figure** 9-b), enable the router to create consistent and repeatable shapes in your workpiece.

- **Understanding Offset:** Be aware that the cut on the final workpiece will differ from the template opening. The guide bush offset (**Figure** 9-e) must be calculated before cutting.
- **Calculating Offset:** To determine the offset, use this formula: Offset = Guide Bush Outer Diameter - Router Bit Diameter.
- **Template Material Options:** Templates and jigs can be crafted from a range of materials, including hardboard, plywood, plastic, or metal.

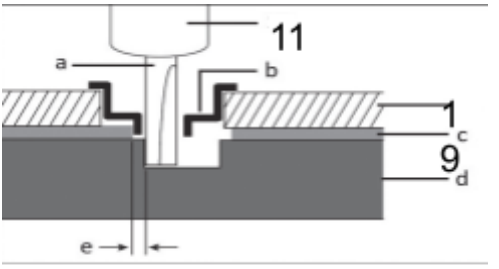


Figure 9

Important Note: Always hold the router firmly with both hands and move it evenly and continuously along the workpiece. Do not slow down at corners or when changing direction, as this can cause the router to overheat and leave burn marks on your material.

4. Cutting Tips and Skills

Before you begin, place the router's baseplate on the workpiece so the bit is not touching the material. Turn the tool on and wait until the spindle reaches full speed. Then, lower the router body and begin your cut.

Basic Routing Tips

A. **Smooth Movement:** Route with smooth, consistent motions. Keep the baseplate flush with the workpiece surface.
B. **Feed Direction:** A router bit turns clockwise. For most cuts, you should direct the tool so the bit turns into the workpiece, which generally means **pulling the tool toward you** rather than pushing it away. This allows for more efficient material removal and better control.
C. **Feed Rate:** The correct feed rate depends on the bit size, material type, and cutting depth.
    a. **Moving too fast** can result in a poor-quality cut and damage the bit or motor.
    b. **Moving too slowly** can burn the wood.
D. **Test Cuts:** Always make a test cut on scrap material first to check your settings and how the bit will cut.

Advanced Routing Skills

A. **Parallel Grooves:** Use a guide fence to cut grooves parallel to the edge of your workpiece. For grooves far from the edge, clamp a straight piece of wood to the workpiece and use it as a guide for the router's baseplate.
B. **Finishing Edges:** To get a very clean edge, make a very shallow first pass in the direction of the router's rotation. This removes most of the wood grain evenly before you make your main cut in the normal, opposite direction.
C. **Working with Difficult Wood:** When working with wood prone to splitting, make thin passes. Routing in the same direction as the router's rotation can help prevent chipping, especially when trimming glued edges.

Important: Do not overload the bit. This tool is designed for short-term operating mode. Always use a bit with end-cutting edges and a guide plate for reliable guidance when trimming edges.

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.

Inspecting Carbon Brushes

- Worn carbon brushes can cause a loss of power or sparking.
- Check the brushes after the first 50 hours of operation, then every 10 hours after that.
- If a brush is worn down to a length of 6mm, or if the spring or wire is damaged, replace **both brushes at the same time** with identical new ones.

Troubleshooting

Problem	Possible cause	Solution
No function when ON/OFF	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 using it. Contact us.

Contact

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