

Dual Mode Precision Plunge Router 2400W

TRA001

Designed by woodworkers for woodworkers, the multi-award winning TRA001 has been the benchmark in professional routers around the world since its release. One of the most significant features of this machine is its ability to switch from a conventional plunge router to a fixed-base mode router with rack and pinion height adjustment at the push of a button. Simple ideas are often the best and the 3-stage, pre-set height adjustment system is a perfect example. It only takes seconds to remove the plunge return spring, which then allows for easy lifting and adjustment of the machine when mounted in a router table. Safety has also been carefully considered, especially where bit changes are concerned. The automatic spindle lock will only engage when the power switch safety cover is closed, ensuring the tool cannot accidentally be switched on during the bit-changing procedure.

- Powerful 2400W / 3-1/4hp electronically controlled motor
- Ideal for table-mounting and hand-held use
- Single switch from plunge to fixed-base router with rack and pinion height adjustment
- 8,000-21,000rpm electronic speed maintenance under load
- Automatic spindle lock for single wrench bit changes
- 3 -stage turret with direct reading scales for precise pre-set cut depths
- Soft start and variable speed provides the perfect speed for all cutter types
- Micro winder enables continuous fine depth adjustment



Technical Specification

Product Height	310mm
Product Length	180mm
Product Width	300mm
Product Weight	7.7kg
Power	2400W
No Load Speed	21,000rpm
Speed Maintenance Under Load	8,000 - 21,000rpm
Sound Pressure LP	89.8 dB
Sound Power LW	100.8 dB
Depth Adjustment	Micro winder
Electronic Speed Maintenance	Yes
Plunge Range	0 - 68mm
Power On Indicator	Neon
Safety Power Switch	Yes

Compatible With

DCA 300	Dust Collection Bucket 23Ltr
RTA 300	Precision Router Table
FJA 300	Finger Jointer
AJA 150	Overhead Mounting Kit
TGA 001	Template Guide Kit
TGA 250	Template Guide Kit 12pce
TWX7 RT001	Router Table Module
TRT A001	Router Track Adaptor

What's in the Box

- 1 x Table height winder
- 1 x Collet 1/2"
- 1 x Collet 12mm
- 1 x Collet wrench
- 1 x Multi-function fence

GB Operating and Safety Instructions

NL Bedienings- en
veiligheidsvoorschriften

FR Instructions d'utilisation
et consignes de sécurité

DE Gebrauchs- und
Sicherheitsanweisung

IT Istruzioni per l'uso
e la sicurezza

ES Instrucciones de
uso y de seguridad

PT Instruções de
Operação e Segurança

PL Instrukcja obsługi
i bezpieczeństwa

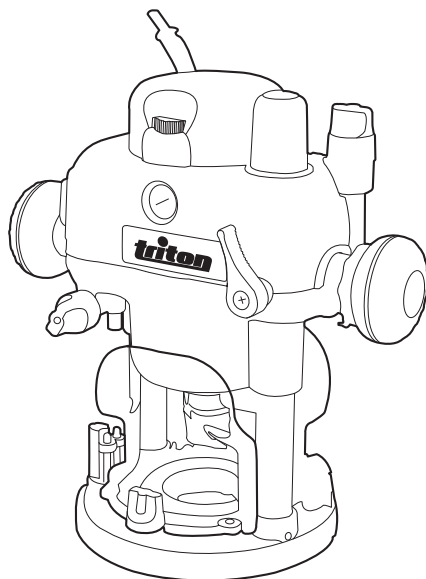
RU Инструкции по эксплуатации и
правила техники безопасности

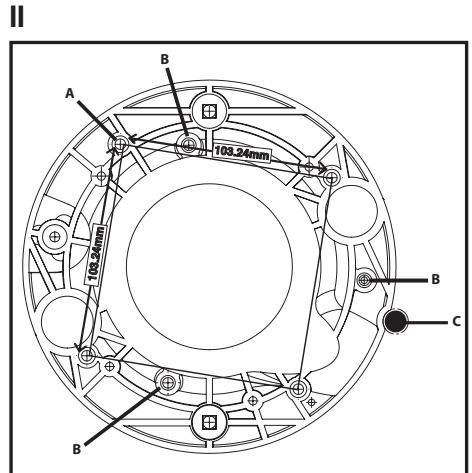
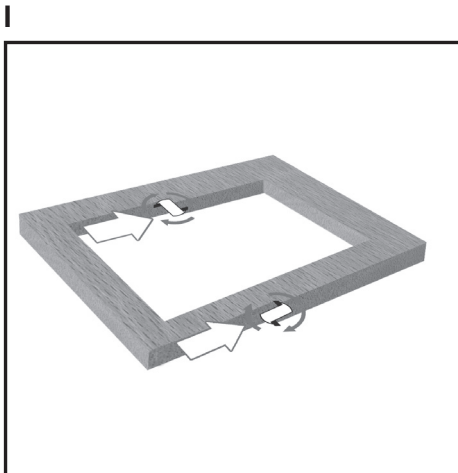
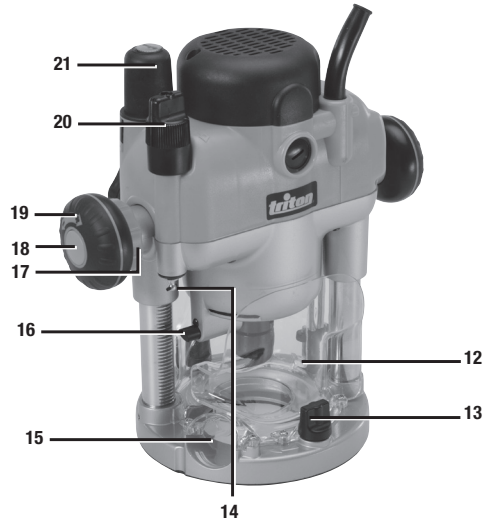
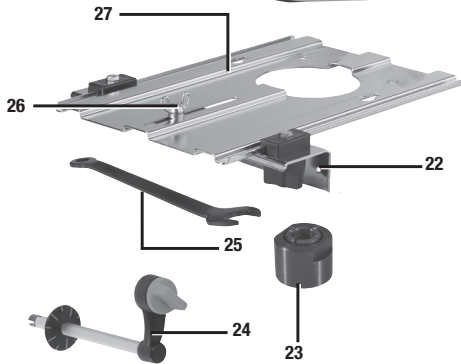
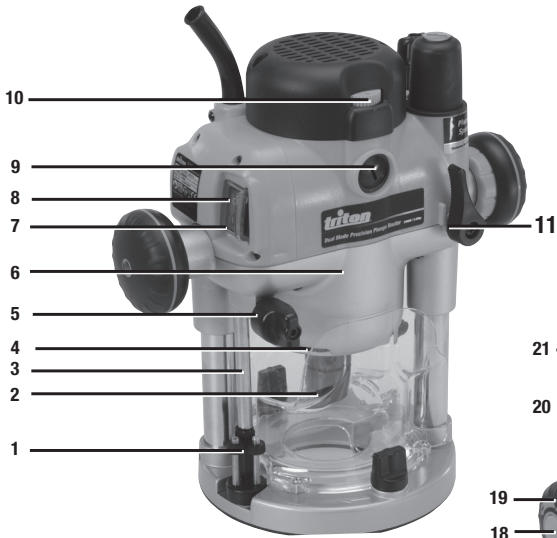
HU Kezelési és
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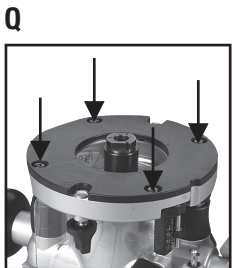
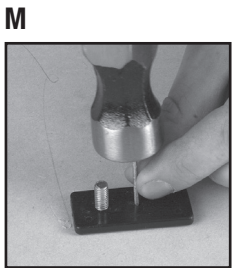
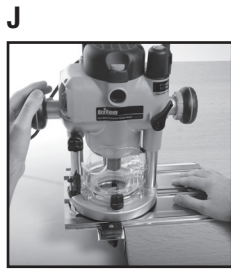
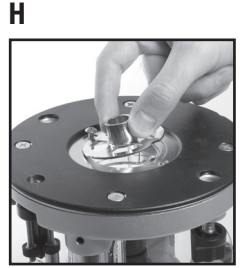
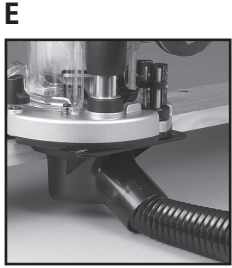
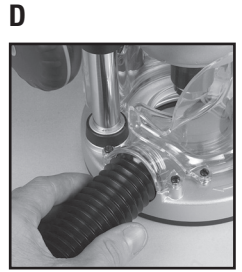
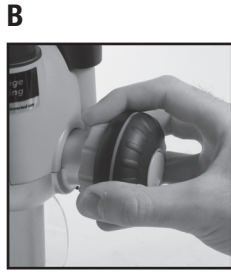
CZ Provozní a
bezpečnostní pokyny

SK Prevádzkové a
bezpečnostné pokyny

TR Çalima ve
Güvenlik Talimatları







Original Instructions

Introduction

Thank you for purchasing this Triton tool. Please read these instructions: they contain information necessary for safe and effective operation of this product. This product has a number of unique features and even if you are familiar with similar products, reading the instructions will help you get the full benefit of its unique design. Keep these instructions close to hand and ensure all users of this tool have read and fully understand them.

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



Caution



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



Class II construction (double insulated for additional protection)



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



Conforms to relevant legislation and safety standards.

Specification

Model no:	TRA001
Voltage:	220 - 240V - 50Hz, 9.1A
Input Power:	2400W
No-load speed:	8,000 - 21,000min ⁻¹
Collet:	½" & 12mm
Maximum cutter diameter:	55mm (50mm when used with WX7RT001)
Maximum collet size:	½" (imperial), 12mm (metric)
Height adjustment:	1) Free Plunge 2) Table Height Winder 3) Micro Adjuster (Fine Adjustment)
Plunge Range:	0-68mm
Ingress protection:	IP20
Protection class:	□
Power cord length:	3m
Dimensions (L x W x H):	180 x 300 x 310mm
Weight:	6.3kg
As part of our ongoing product development, specifications of Triton products may alter without notice.	
Sound and vibration information:	
Sound pressure (L_{PA}):	85.5dB(A)
Sound power (L_{WA}):	96.5dB(A)
Uncertainty K:	3dB
Weighted Vibration a_v:	4.795m/s ²
Uncertainty K:	1.5m/s ²
The sound intensity level for the operator may exceed 85dB(A) and sound protection measures are necessary.	

WARNING: Always wear ear protection where the sound level exceeds 85dB(A) and limit the time of exposure if necessary. If sound levels are uncomfortable, even with ear protection, stop using the tool immediately and check the ear protection is correctly fitted and provides the correct level of sound attenuation for the level of sound produced by your tool.

WARNING: User exposure to tool vibration can result in loss of sense of touch, numbness, tingling and reduced ability to grip. Long-term exposure can lead to a chronic condition. If necessary, limit the length of time exposed to vibration and use anti-vibration gloves. Do not operate the tool with hands below a normal comfortable temperature, as vibration will have a greater effect. Use the figures provided in the specification relating to vibration to calculate the duration and frequency of operating the tool.

Sound and vibration levels in the specification are determined according to EN60745 or similar international standards. The figures represent normal use for the tool in normal working conditions. A poorly maintained, incorrectly assembled, or misused tool, may produce increased levels of noise and vibration. www.osha.europa.eu provides information on sound and vibration levels in the workplace that may be useful to domestic users who use tools for long periods of time.

General Safety

WARNING Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

WARNING: This appliance is not intended for use by persons (including children) with reduced, physical or mental capabilities or lack of experience or knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children must be supervised to ensure that they do not play with the appliance. Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1) Work area safety

- a) Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- b) Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- c) Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.
- d) Electrical safety
 - a) Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
 - b) Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
 - c) Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
 - d) Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
 - e) When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock.
 - f) If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply. Use of an RCD reduces the risk of electric shock.

3) Personal safety

- a) Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury.
- b) Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c) Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- d) Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e) Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f) Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- g) If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.
- 4) Power tool use and care
 - a) Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
 - b) Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
 - c) Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
 - d) Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
 - e) Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
 - f) Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
 - g) Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

5) Service

- a) Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

Additional Safety for Routers



WARNING!

- Hold the power tool by insulated gripping surfaces only, because the cutter may contact its own cord. Cutting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.

- Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by your hand or against the body leaves it unstable and may lead to loss of control.
 - If the replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.
 - It is strongly recommended that the tool always be supplied via a residual current device with a rated residual current of 30 mA or less.
- a) Use safety equipment including safety goggles or shield, ear protection, dust mask and protective clothing including safety gloves
 - b) Cloths, cord, string etc should never be left around the work area
 - c) Ensure the mains supply voltage is the same as the tool rating plate voltage
 - d) Ensure any cable extensions used with this tool are in a safe electrical condition, and have the correct amperage rating for the tool
 - e) Completely unwind cable drum extensions to avoid potential overheating
 - f) Use appropriate detectors to determine if utility cables or pipes are below the surface of the work area. Consult utility companies for assistance if necessary. Contact with electric cables can lead to electric shock and fire. Damaging a gas pipe can lead to explosion. Contact with water lines can lead to major property damage
 - g) Ensure embedded objects such as nails and screws have been removed from the workpiece before commencing operation
 - h) Handle router bits with care as they can be extremely sharp
 - i) Before use, check the bit carefully for signs of damage or cracks. Replace damaged or cracked bits immediately
 - j) Ensure router cutters/bits are sharp and maintained correctly. Dull cutting edges can lead to uncontrolled situations including stalling, increased heat and possible injury
 - k) ALWAYS use both handles and maintain a firm grip on the router before proceeding with any work
 - l) Keep handles and gripping surfaces dry, clean and free of oil and grease to ensure the tool can be securely held in use
 - m) Before using the tool to make a cut, switch on and let it run for a while. Vibration could indicate an improperly installed bit
 - n) Take notice of the direction of rotation of the bit and the direction of feed
 - o) Keep your hands away from the routing area and router bit cutter. Hold the auxiliary handle or an insulated gripping surface with your second hand
 - p) NEVER start the router while the cutter is touching the workpiece
 - q) Ensure the plunge spring is always fitted when using hand-held
 - r) Ensure the cutter has completely stopped before plunging to the collet lock position
 - s) The maximum speed of the router bit/cutter must be at least as high as the maximum speed of the power tool
 - t) Parts of the router bits may become hot during operation. Do not handle immediately after use to avoid risk of burns
 - u) Do not allow parts to come into contact with combustible materials
 - v) The shank size of the router cutter/bit must be matched to the exact same size collet fitted to the router. Incorrectly fitted router cutter/bits will rotate irregularly and have increased vibration that could lead to loss of control
 - w) DO NOT press the spindle lock button, or attempt to switch the tool into bit change mode while the router is operating
 - x) Keep pressure constant while cutting into the workpiece, allowing the router bit cutter to dictate the speed of cut. DO NOT force the tool and overload the motor
 - y) Ensure rating labels and safety warnings on the tool remain clear to read and are replaced if marked or damaged
 - z) When operating the router, be prepared for the router bit cutter stalling in the workpiece and causing loss of control. Always ensure the router is firmly held and the on/off switch is immediately released in such circumstances
- 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. Operating the router with an incorrectly fitted router bit can lead to loss of control and severe injury
 - EXTREME care must be taken when using cutters with a diameter greater than 2" (50mm). Use very slow feed rates and/or multiple shallow cuts to avoid overloading the motor
 - ALWAYS switch off and wait until the bit has come to a complete standstill before removing the machine from the workpiece
 - Disconnect from the power supply before carrying out any adjustment, servicing or maintenance

WARNING: Dust generated by using power tools can be toxic. Some materials may be chemically treated or coated and be a toxic hazard. Some natural and composite materials may contain toxic chemicals. Some older paints may contain lead and other chemicals. Avoid prolonged exposure to dust generated from operating a router. DO NOT allow dust to get onto skin or eyes and do not allow the dust to enter your mouth to prevent absorption of harmful chemicals. Where possible, work in a well-ventilated area. Use a suitable dust mask and dust extraction system where possible. Where there is a higher frequency of exposure, it is more critical that all safety precautions are followed and a higher level of personal protection is used.

Product Familiarisation

1. Turret Stops
2. Chuck
3. Depth Stop
4. Side Air Vents
5. Depth Stop Lock Knob
6. Motor
7. Retracting Power Switch Cover
8. On/Off Power Switch
9. Brush Access Covers
10. Speed Controller
11. Plunge Lock Lever
12. Safety Guards
13. Baseplate Mounting Knobs
14. Table Height Winder Connection Point
15. Dust Extraction Port
16. Automatic Spindle Lock
17. Winder Handle Clutch Ring
18. Plunge Selection Button
19. Winder Handle
20. Micro Winder
21. Plunge Spring Access Cap
22. Fence
23. Collet
24. Table Height Winder
25. Spanner
26. Circle Cutting Pivot Mount
27. Extended Baseplate

Figure II

- A. ¼ UNC x4
- B. M6 x3
- C. Table Winder Incent

Intended Use

Hand-held precision plunge router for use with Shank router bits up to ½" and 12mm (depending on the collet installed). Used for cutting profiles, grooves, edges and elongated holes in natural and composite wood. Also used with guide bushes and templates for cutting shapes, following patterns, as well as for stationary installation in compatible router table systems.

Unpacking Your Tool

- Carefully unpack and inspect your new plunge router. Familiarise yourself with all its features and functions
- Ensure that all parts of the tool are present and in good condition. If any parts are missing or damaged, have such parts replaced before attempting to use this tool

Before Use

⚠ WARNING: Ensure the tool is disconnected from the power supply before attaching or changing any accessories, or making any adjustments.

Collet and cutter installation

Note: Wear protective gloves when inserting and removing router bits due to the sharp edges of the cutters.

1. Place the router upside down on a secure flat surface, with the motor completely stationary and the power cable removed from the mains
2. Plunge the router to its maximum depth by pressing the Winder Handle Clutch Ring (17)

(Image B) inwards, and turning the Winder Handle (19) clockwise until the Collet (23) is protruding the base

Note: Ensure the Depth Stop (3) is fully retracted (see 'Depth stop and turret'). The Collet should be protruding through the base, allowing easy spanner access.

3. Using the Spanner (25) provided, loosen the Collet by turning it anti-clockwise until removal
4. Select the desired Collet, and install into the Chuck (2) by screwing the Collet in clockwise
5. Insert the router cutter into the Collet ensuring that at least 20mm or half of the shaft (whichever is greater) is inserted into the Collet, then use the Spanner to turn the Collet slightly, allowing the collet lock to engage (Image C). Once engaged, turn the spanner clockwise to tighten the cutter
6. Return the router to a normal operating depth. This will disengage the collet lock and release the retracting switch shutter, enabling access to the On/Off Power Switch (8)

Dust extraction port

Note: The Triton Router is equipped with a Dust Extraction Port (15) for chip extraction above the cut. The Dust Extraction Port accepts 38mm (1½") O.D. hose, supplied with the Triton Dust Collector (DCA300).

- The dust extraction hose screws into position via a left hand thread (anti-clockwise) (Image D)

Optional chip collector accessory

- An optional Dust Chute for effective chip extraction alongside the cut zone is available through your local Triton retailer. It can be connected to any 38mm (1½") O.D. hose (Image E)

Extended baseplate and fence installation

1. Locate the two Baseplate Mounting Knobs (13) and loosen them completely. This permits the mounting studs to engage the router securing holes on the Extended Baseplate (27)
2. Turn both the plunge router and the Extended Baseplate upside down
3. Press the Baseplate Mounting Knobs on the plunge router inwards, to expose the mounting studs
4. Align the mounting studs with the router securing holes on the Extended Baseplate, and slide into the keyhole slots (Image K).

Note: The orientation of the Extended Baseplate depends on where the support is required. For edge work, locate the On/Off Power Switch (8) on the short overhang side of the base

5. Tighten the Baseplate Mounting Knobs on the plunge router firmly to secure the plunge router to the Extended Baseplate
6. To fit the Fence (22) loosen the fence knobs, and slide the Fence along the tracks on the Extended Baseplate (Image L). Lock at the required setting by tightening both fence knobs

Note: When routing trenches at distance from an edge, fit the Fence to the long end of the Extended Baseplate.

Note: When performing edge work with a non-bearing guided cutter, fit the Fence to the short end of the baseplate (Image J)

Note: If using a very large diameter cutter it may be necessary to fix wooden blocks to the fence faces via the screw holes, to ensure the cutter does not contact the Fence.

Operation

⚠ WARNING: ALWAYS wear eye protection, adequate respiratory and hearing protection, as well as suitable gloves, when working with this tool.

Switching on and off

Note: When the router is connected to the power source, the On/Off Power Switch (8) will illuminate in both 'On' and 'Off' positions.

Note: The Retracting Power Switch Cover (7) prevents accidental starting of the router. It must be retracted before the router can be switched on. The Retracting Power Switch Cover will remain open until the router is switched off.

1. Ensure that the plunge router is at the maximum extension of its travel, and that the cutter will not conflict with any foreign objects when it is powered on
2. Connect the power cord to the mains, and slide the Retracting Power Switch Cover back to reveal the On/Off Power Switch
3. Press the On/Off Power Switch in the 'I' position to turn the plunge router ON. Whilst the On/Off Power Switch is in this position, the Retracting Power Switch Cover will be prevented from re-covering the On/Off Power Switch
4. To turn OFF, press the On/Off Power Switch in the 'O' position. The Retracting Power Switch Cover will slide back to its original position

Variable speed control

Note: Router speed settings are not critical. Generally the highest speed that does not cause burn marks on the workpiece should be used. Where stated, always follow the cutter manufacturers' maximum speed limitations.

- Operating at reduced speed increases the risk of damage to the router as a result of overload. Use very slow feed rates and/or multiple shallow cuts.
- The Speed Controller (10) is marked 1 to 5, corresponding approximately with the speeds and cutter diameters below. Turn the dial to select the required speed

Setting	RPM	Cutter Diameter
5	21,000	Up to 25mm (1")
4	18,000	25-50mm (1"- 2")
3	14,500	50-65mm (2"- 2½")
2	11,000	Over 65mm (2½")
1	8,000	Use only if burning

Cutting depth adjustment

Note: To lock the router at a particular depth of cut, plunge the router head down and rotate the Plunge Lock Lever (11) to its lower position. This will hold the router head in this position

- There are three methods of cut depth adjustment, depending on the accuracy and control required:

Free plunge

1. Free plunge depth adjustments can be made with the Plunge Selection Button (18) engaged. Press the Plunge Selection Button deep inside the handle until it engages inward (Image A)
2. Release the Plunge Lock Lever (11) and push the body of the router until the required depth is reached. Re-lock the Plunge Lock Lever

Winder handle adjustment

1. Plunge depth adjustments can be made by turning the Winder Handle (19)
2. Disengage the Plunge Selection Button (18), and ensure the button is flush with the Winder Handle (Image K)
3. To release the Winder Handle, pull the Winder Handle Clutch Ring (17) inwards (Image B)
4. Release the Plunge Lock Lever (11) and twist the Winder Handle until the desired depth of cut is reached. Release the Winder Handle Clutch Ring, and lock the Plunge Lock Lever

Micro Winder

Note: For use with Winder Handle (19) plunge mode only.

1. Disengage the Plunge Selection Button (18), and ensure that the Plunge Lock Lever (11) is unlocked

Note: If the Micro Winder (20) is turned with the Plunge Lock Lever engaged, the Micro Winder will start clicking and the cut depth will remain unchanged.

2. Turn the Micro Winder clockwise to increase cut depth and anti-clockwise to reduce cut depth. Adjust the cut depth until the desired height is reached

Note: When the end of the depth adjustment range is reached, the Micro Winder will offer greater resistance and will begin to 'click'.

3. Engage the Plunge Lock Lever, particularly for heavy cuts

Depth stop and turret

1. The Depth Stop (3) and Turret Stops (1) are used to accurately pre-set up to three different cut depths
2. Loosen the Depth Stop Lock Knob (5) and retract the Depth Stop (3) fully, then re-tighten (Image F)
3. Set the turret posts to the required plunge depths using the scales on the stationary turret post (Image G)

Note: To change turret posts, rotate the entire turret assembly to align with the Depth Stop.

4. With the desired cutter installed into the Collet (23), adjust the plunge depth until the tip of the cutter touches the workpiece.
5. Rotate the turret until the fixed turret post is in line with the Depth Stop. Release the stop, allowing it to spring on to the post, then re-tighten the Depth Stop Lock Knob. The plunge depth is now set at zero
6. Rotate the Turret Stops until the turret post with the desired plunge depth is aligned with the Depth Stop

Optional template guide bushes

Different template guide bushes are available for template routing. Accessory kits are available through your local Triton retailer.

Making a cut

Note: NEVER operate the router freehand without some form of guide. Guidance can be provided by a bearing guided router bit cutter, the supplied guides, or a straight edge (Image I)

1. ALWAYS hold the router using both hands, on the handles provided. Ensure that the workpiece will not move. Use clamps wherever possible
2. Allow the motor to reach its full operating speed
3. Lower the router bit cutter into the workpiece whilst moving the router slowly, keeping the baseplate held flat against the workpiece
4. If edge cutting, the cutting of the workpiece should be on the left side relative to the cutting direction, (fig I). Keep the pressure constant and allow the cutter to work

steadily through the material. Be aware that knots, and other variations, will slow the rate of progress

Note: To avoid 'bit chatter', direct the cut anti-clockwise for external cuts, and clockwise for internal cuts.

Note: Moving the router too fast can result in a poor quality finish, and overloading of the motor. Moving the router too slowly can result in overheating the workpiece.

Note: Normal operation of a router is to plunge the head after the router has been switched on.

Note: Do not operate the router upside down unless securely mounted in a well-guarded router table (eg. Triton brand).

Making multiple pass cuts

1. The Turret Stops (1) allow the maximum depth of cut to be achieved in an operator-determined number of steps. Each step of the turret can be pre-set by adjusting the thumbwheel on the turret post
2. Rotate the Turret Stops so that the Depth Stop will contact the highest pre-set turret post when the router is plunged. The first pass of the cut can now be made
3. Continue to make passes, rotating the Turret Stops and adjusting the turret post depth for each pass when necessary until the full depth of cut has been achieved

Circle Cutting

1. Fit the Extended Baseplate (27), without the Fence (22) attachment, to the router
 2. Remove the Circle Cutting Pivot Mount (26) from the Extended Baseplate and fix it to the centre of the workpiece, using a small nail or screw, through one of the holes in the pivot mount, (Image M). Leave the pivot mount bolt in position
 3. Lower the router and base over the pivot mount and refit the washer and wing-nut, (Image N).
 4. With the power switched 'Off', rotate the router along the intended path to check the circle, and make any necessary adjustments
 5. Cut the circle in several passes, lowering the cut depth by approximately 2mm (1/16") each pass, (Image T) Do not attempt to cut deeply in one pass
- Through cuts: If cutting all the way through the material, fix a sacrificial board to the underneath of the workpiece. Cut the circle oversize, then when the cut is all the way through, reduce the diameter and work back to the required size, using light, full depth passes

Table-mounted operation

⚠WARNING: When in use with the Triton Workcentre Router Table Module TWX7RT001, the maximum cutter Dia. Is 50mm. This is constrained by the Workcentre specification.

Note: Fitting and operating this router on a router table should be carried out in accordance with the literature supplied with the router table.

Note: Whilst this product was designed for efficient and convenient operation on most router tables, it is particularly suited for use with the Triton Router Table RTA300 and TWX7RT001.

Note: Router adjustments are extremely easy using the unique features described earlier in the manual. See 'Collet and cutter installation' and 'Cut Depth Adjustment'.

Note: The plunge spring MUST be removed before this router is fitted into a router table:

1. Set the router at the top of its plunge range and engage the Plunge Lock Lever (11)
2. Loosen the small screw next to the Plunge Spring Access Cap (21) a few turns.
3. Holding the Plunge Spring Access Cap firmly so that the spring will not shoot upwards when released, twist the cap anti-clockwise to remove it, (Image O)
4. Remove the spring and store in a safe place.
5. Replace the Plunge Spring Access Cap and re-tighten the screw.

NOTE: Be sure to re-fit the plunge spring before using the router freehand.

- The Table Height Winder (24) engages with the Table Height Winder Connection Point (14) for quick and easy above-the-table height adjustment when the router is table-mounted

Accessing the baseplate screw threads

1. To mount the router in a third-party router table or a table of your own construction remove the 4 x screws of the baseplate indicated in Image Q and remove the baseplate
2. There are 2 sets of screw threads as shown in figure II. There are 4 x ¼ UNC screw threads (A) which are used to secure the baseplate as well as suitable for table mounting plus an alternate set of 3 x M6 threads (B)

Note: The M6 threads are not available on earlier versions of the TROA01 router.

Accessories

- A wide range of suitable accessories for this tool are available from your Triton stockist, including a large selection of cutter/router bits. Spares including carbon brushes, guide bushes and collets are available from your Triton stockist or www.toolsparsonline.com.

Maintenance

⚠WARNING: ALWAYS disconnect from the power supply before carrying out any inspection, maintenance or cleaning.

General Inspection

- Regularly check that all the fixing screws are tight
- Inspect the supply cord of the tool, prior to each use, for damage or wear. Repairs should be carried out by an authorised Triton service centre. This advice also applies to extension cords used with this tool

Cleaning

 **WARNING:** ALWAYS wear protective equipment including eye protection and gloves when cleaning this tool.

- Keep your tool clean at all times. Dirt and dust will cause internal parts to wear quickly, and shorten the device's service life
- Clean the body of your machine with a soft brush, or dry cloth
- Never use caustic agents to clean plastic parts. If dry cleaning is not sufficient, a mild detergent on a damp cloth is recommended
- Water must never come into contact with the tool
- Ensure the tool is thoroughly dry before using it
- If available, use clean, dry, compressed air to blow through the ventilation holes (where applicable)

Lubrication

- Slightly lubricate all moving parts at regular intervals with a suitable spray lubricant

Brushes

- Over time the carbon brushes inside the motor may become worn
- Excessively worn brushes may cause loss of power, intermittent failure, or visible sparking
- To replace the brushes, remove the two Brush Access Covers (9). Carefully remove the worn brushes (Image P) and ensure the sockets are clean. Carefully replace with new brushes and then replace the Brush Access Covers
- After fitting run the router without load for 2-3 minutes to help the brushes bed in. The process of the brushes fully bedding in may take repeated uses. Motor sparking may continue until new carbon brushes have bedded in
- Alternatively, have the machine serviced at an authorised service centre

Storage

- Store this tool carefully in a secure, dry place out of the reach of children

Disposal

Always adhere to national regulations when disposing of power tools that are no longer functional and are not viable for repair.

- Do not dispose of power tools, or other waste electrical and electronic equipment (WEEE), with household waste
- Contact your local waste disposal authority for information on the correct way to dispose of power tools

Troubleshooting

Problem	Possible cause	Solution
No function when On/Off Power Switch (8) is operated	No power	Check power supply
	Defective On/Off Power Switch	Replace the On/Off Power Switch at an authorised Triton service centre
Inaccurate cutting profile	Depth Stop (3) not correctly adjusted	Ensure that the Depth Stop corresponds to the maximum amount of cut permitted by the Turret Stops (1)
	Incorrectly fitted or loose router bit/Collet (23)	Tighten router bit/Collet and cutter assembly
Router will not operate	No supply of power	Check that power is available at source
	Brushes worn or sticking	Disconnect power, open Brush Access Covers (9) and ensure brushes are not damaged or heavily worn
	Switch is faulty	Have the tool serviced by an authorised Triton service centre
	Motor components faulty or short circuited	
Router runs or cuts slowly	Blunt or damaged cutter	Re-sharpen or replace cutter
	Speed Controller (10) set low	Increase variable speed setting
	Motor is overloaded	Reduce pushing force on router
Excessive vibration	Incorrectly fitted or loose router bit	Refit or tighten router bit
	Bent or damaged router bit	Replace router bit
Heavy sparking occurs inside motor housing	Brushes not moving freely	Disconnect power, remove brushes, clean or replace
	Damaged or worn motor	Have the tool serviced by an authorised Triton service centre
Micro Winder (20) "clicks" or not adjusting	Plunge Lock Lever (11) engaged	Release Plunge Lock Lever
	Reached end of adjustment range	Reset the Micro Winder and set depth with the Depth Stop (3)
Makes an unusual sound	Mechanical obstruction	Have the tool serviced by an authorised Triton service centre
	Damage to internal windings	

Guarantee

To register your guarantee visit our web site at www.tritontools.com* and enter your details.

Your details will be included on our mailing list (unless indicated otherwise) for information on future releases. Details provided will not be made available to any third party.

Purchase Record

Date of Purchase: ___ / ___ / ___

Model: TRA001 Retain your receipt as proof of purchase

Triton Precision Power Tools guarantees to the purchaser of this product that if any part proves to be defective due to faulty materials or workmanship within 3 YEARS from the date of original purchase, Triton will repair, or at its discretion replace, the faulty part free of charge.

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CE Declaration of Conformity

The undersigned: Mr Darrell Morris
as authorised by: Triton Tools

Declares that

Identification code: 330165

Description: Dual Mode Precision Plunge Router 2400W

Conforms to the following directives and standards:

- Machinery Directive 2006/42/EC
- Low Voltage Directive 2006/95/EC
- EMC Directive 2004/108/EC
- RoHS Directive 2011/65/EU
- EN60745-1:2006+A11:2010
- EN60745-2-17:2010
- EN55014-1:2006+A1+A2
- EN55014-2:1997+A1+A2
- EN61000-3-2:2006+A1+A2
- EN61000-3-3:2013

Notified body: TÜV SÜD Product Service

The technical documentation is kept by: Triton Tools

Date: 26/02/2016

Signed:



Mr Darrell Morris
Managing Director

Name and address of the manufacturer:

Powerbox International Limited, Company No. 06897059. Registered address:
Central House, Church Street, Yeovil, Somerset BA20 1HH, United Kingdom.