# triton Compact Precision Plunge Router 1010W / 1-½hp JOF001

## Operating and Safety Instructions

**Bedienings- en veiligheidsvoorschriften**

**Instructions d'utilisation et consignes de sécurité**

**Gebrauchs- und Sicherheitsanweisung**

**Istruzioni per l'uso e la sicurezza**

**Instrucciones de uso y de seguridad**


tritontools.com

*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.*

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## SPECIFICATION

| | |
|---|---|
| **Model no.** | J0F001 |
| **Voltage** | **EU:** 220-240V AC, 50/60Hz, 4.6A<br>**SA:** 220-240V AC, 50/60Hz, 4.6A<br>**AU:** 220-240V AC, 50/60Hz, 4.6A<br>**JP:** 100V AC, 50/60Hz, 10A<br>**USA:** 120V AC, 60Hz, 8.4A |
| **Input power** | **EU:** 1010W<br>**SA:** 1010W<br>**AU:** 1010W<br>**JP:** 1010W<br>**USA:** 1010W / 1-½hp |
| **No load speed** | 8,000 to 20,000min$^{-1}$ variable |
| **Depth adjustment** | 1) Micro Winder<br>2) Free Plunge |
| **Bit changes** | Through-base, single spanner action. Auto shaft lock |
| **Guide** | Extended baseplate with adjustable fence |
| **Protection Class** | ⧈ |
| **Net weight** | 3.9kg / 8.6lbs |
| **Sound and vibration information:** | |
| **Sound pressure ($L_{pa}$)** | 85.5dB(A) |
| **Sound power ($L_{wa}$)** | 96.5dB(A) |
| **Uncertainty (K)** | 3dB |
| **Weighted vibration ($A_h$)** | 5.958m/s$^2$ |
| **Uncertainty (K)** | 1.5m/s$^2$ |

As part of our ongoing product development, specifications of Triton products may alter without notice.

The sound intensity level for the operator may exceed 85dB(A) and sound protection measures are necessary.

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## PRODUCT FAMILIARISATION


1. Speed Controller
2. Motor
3. Illuminated Power Switch with Lock-Out Cover
4. Handles
5. Collet
6. Dust Extraction Port
7. Plunge Lock Lever
8. Micro Winder
9. Turret Stops
10. Table-Winder Connection Point
11. Depth Stop Lock Knob
12. Safety Guards
13. Baseplate Mounting Knobs
14. Fence
15. Spanner
16. Extended Baseplate
17. Collet
18. Table Height Winder
19. Pivot Mount

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## SYMBOLS

**ENVIRONMENTAL PROTECTION**

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your local authority

Wear hearing protection
Wear eye protection
Wear breathing protection
Wear head protection

Conforms to relevant legislation and safety standards.

Read instruction manual

Caution!

Class II construction (double insulated for additional protection)

## GENERAL SAFETY

**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.

**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.

**2) 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.

**WARNING:** When used in Australia or New Zealand, it is recommended that this tool is ALWAYS supplied via Residual Current Device (RCD) with a rated residual current of 30mA or less.

**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**

**WARNINGS.** Before connecting a tool to a power source (mains switch power point receptacle, outlet, etc.) be sure that the voltage supply is the same as that specified on the nameplate of the tool. A power source with a voltage greater than that specified for the tool can result in serious injury to the user, and damage to the tool. If in doubt, do not plug in the tool. Using a power source with a voltage less than the nameplate rating is harmful to the motor.

- Use safety equipment including safety goggles or shield, ear protection, dust mask and protective clothing including safety glove
- Cloths, cord, string etc should never be left around the work area
- Ensure the mains supply voltage is the same as the tool rating plate voltage
- Ensure any cable extensions used with this tool are in a safe electrical condition, and have the correct ampere rating for the tool
- Completely unwind cable drum extensions to avoid potential overheating
- Always check walls, floors and ceilings to avoid hidden power cables and pipes
- Ensure that you have removed embedded objects such as nails and screws from the workpiece before commencing operation
- Handle router bits with care, they can be extremely sharp

- Before use, check the bit carefully for signs of damage or cracks. Replace damaged or cracked bits immediately
- Always use both handles and ensure that you have a firm grip on the router before proceeding with any work
- Before using the tool to make a cut, switch on and let it run for a while. Vibration could indicate an improperly installed bit
- Take notice of the direction of rotation of the bit and the direction of feed
- Keep hands away from the rotating bit
- Never start the router while the cutter is touching the workpiece
- Ensure the plunge spring is always fitted when using hand-held
- Ensure the cutter has completely stopped before plunging to the collet lock position
- Only use router cutters designed for woodwork, suitable for use between 8,000 and 20,000rpm
- Do not handle cutters immediately after use - they become very hot
- Only use cutters with a shank diameter exactly matched to the collet(s) supplied with this router
- 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 power before carrying out any adjustment, servicing or maintenance

## FUNCTIONS

### POWER SWITCH

- When the router is connected to power, the Switch (3) will illuminate (in both 'on' and 'off' positions).
- The retracting switch cover prevents accidental starting of the router. It must be retracted before the router can be switched on. The cover will remain open until the router is switched off

### ADJUSTING THE DEPTH OF CUT

There are two ways to adjust the cutting depth:

- Free Plunge, for conventional & fast depth adjustment
- Micro Adjuster, for precise depth setting throughout the full plunge range

**Free Plunge**

1. Disengage the Plunge Lock Lever (7)
2. Using the handles, push the router down to the required plunge depth
3. Engage the plunge lock lever to lock the router at the required depth

**Micro Adjuster**

1. Disengage the Plunge Lock Lever (7)
2. Turn the Micro Winder (8) until the router bit is at the depth required. Turn clockwise to increase cut depth, anticlockwise to reduce cut depth

3. Engage the plunge lock lever when the router is at the required depth, particularly for heavy cuts

### FITTING A COLLET AND ROUTER BIT

1. Ensure the power switch is OFF and the router disconnected from mains (the retracting shutter will lock closed)
2. Check the depth stop is fully retracted (see 'Depth Stop and Turret') and release the Plunge Lock Lever (7)
3. Turn the machine upside down
4. Plunge the router to its maximum depth and engage the plunge lock lever to lock the router in this position

**NOTE:** On first use, when you take the router out of the box, the router is in this position

5. Rotate the threaded spindle as necessary to engage the spindle lock

**Fitting a collet**

1. Place collet onto the spindle so that it engages the screw threads
2. Turn the collet clockwise by hand so that it is fully mounted onto the spindle

**Fitting a router bit**

1. Loosen the collet sufficiently to insert the router bit. If removing a router bit, use the Spanner (15) to loosen the collet

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2. Insert the router bit fully into the collet, then use the spanner to tighten the collet so that it holds the bit firmly
3. Hold the body of the machine securely and disengage the plunge lock lever. This will release the collet lock and the power lock out cover

**DUST EXTRACTION**

**Dust Port**

- The Triton JOF Router is equipped with a Dust Extraction Port (6) for chip extraction above the cut. It accepts 38mm (1-½") O.D. hose, supplied with the Triton Dust Collector (DCA300)
- The hose screws into position via a left hand thread (anticlockwise)

**DEPTH STOP & TURRET**

- The Depth Stop (11) and Turret (9) enable accurate pre-setting of two different cut depths

**Zeroing the router**

1. Fit the router bit you require and place the router, right side up, on the work bench
2. Rotate the Turret (9) until the fixed post is beneath the depth stop
3. Loosen the Depth Stop Lock Knob (11) so that the depth stop is fully released
4. Release the Plunge Lock Lever (7), then plunge the router until the tip of the bit is in contact with the surface of the work bench
5. Now tighten the depth stop lock knob so that the depth stop is locked in its current position

**Pre-setting the cut depths**

1. The top of the fixed post now provides an accurate datum, and the depth of cut can be set by reference to the graduations printed on the side of the fixed post
2. To set a cut depth, rotate the thumbwheel on one of the Turret Stops (9) until the top of the thumbwheel aligns with the depth of cut required (as shown on the fixed post) For example, for a cutting depth of 3mm, rotate the thumbwheel until the top is aligned with the 3mm mark on the fixed post.
3. To pre-set a second depth, repeat the procedure with the second thumbwheel

**Plunging to pre-set depth**

- Rotate the turret until the thumbwheel at the required depth is positioned beneath the depth stop
- Now, when you plunge the router, the depth stop will hit the thumbwheel and retain the router at the precise depth required

**VARIABLE SPEED CONTROL**

- Router speed settings are not critical - generally the highest speed which does not result in burn marks on the workpiece should be used. Where stated, always follow the cutter manufacturer's maximum speed limitations
- Generally, higher speeds are used for timber and MDF, lower speeds for synthetic materials
- Operating at reduced speed increases the risk of damage to the router as a result of overload. At low speeds use very slow feed rates and/or multiple shallow cuts

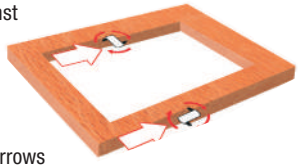
- The Speed Controller (1) is marked 1 to 5, corresponding approximately with the speeds and cutter diameters below. Turn the dial to select the speed required

| Setting | RPM | Cutter Diameter |
|---|---|---|
| 5 | 20,000 | Up to 25mm (1") |
| 4 | 18,000 | 25 – 50mm (1" – 2") |
| 3 | 14,500 | 50 – 65mm (2" – 2-½") |
| 2 | 11,000 | Over 65mm (2-½") |
| 1 | 8,000 | Use only if burning |

## HAND-HELD OPERATION

- Put on all safety equipment required to use this tool
- Ensure your workpiece is securely clamped to prevent any movement during operation

- Hold the router firmly using both hands to control the router and keep an even pressure and movement when cutting
- Never operate the router freehand without some form of guide. Guidance can be provided by a bearing guided cutter, the fence guide supplied, or a straight edge
- Always feed against the direction of cutter rotation. The cutter rotates clockwise (as indicated by the arrows on the base adjacent to baseplate mounting knobs)



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- Do not operate the router upside down unless securely mounted in a well guarded router table (for example, the Triton Router Table)

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**OPTIONAL TEMPLATE GUIDE KIT**

- An optional template guide kit is available from your Triton retailer.

**EXTENDED BASEPLATE AND FENCE**

- The Extended Baseplate (16) provides greater stability when using bearing-guided cutters along an edge
- When using the router with the baseplate fitted, place one hand on the long end of the base, holding it down onto your work, and grip the router handle, furthest away, with your other hand.

**To fit the extended baseplate**

1. Loosen the Baseplate Mounting Knobs (13) sufficiently so that the bolts (on the mounting knobs) will be able to engage the keyhole slots in the baseplate
2. Turn the router upside down
3. Push each knob upwards in turn as you slide the baseplate onto the base of the router and engage the bolts in the keyhole slots on the baseplate
4. Slide the extended baseplate until the bolts locate against the ends of the keyhole slots. Tighten the baseplate mounting knobs firmly

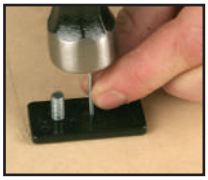
**To fit the fence**

1. Loosen the side fence knobs
2. Slide the fence (14) onto the rails at each side of the baseplate
3. Lock at the required setting by tightening both fence knobs

**NOTES**

- When routing trenches some distance in from an edge, fit the fence to the long end of the base
- When performing edge work with a non-bearing guided cutter, fit the fence to the short end of the base
- 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 come into contact with the fence

**CIRCLE CUTTING**



1. Fit the extended base (without fence) to the router
2. Remove the Pivot Mount (19) from the base and fix it to the centre of your work using a small nail or screw through one of the holes in the pivot mount. Leave the pivot mount bolt in position

3. Lower the router and base over the pivot mount and refit the washer and wing-nut
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 say 2mm (1/13") each pass. Do not attempt to cut deeply in one pass

6. **Through cuts:** If cutting all the way through the material, fix a sacrificial board to the underside of your workpiece. Cut the circle oversize, then when the cut is all the way through, reduce the diameter and work back to the desired size, using light, full depth passes

## TABLE-MOUNTED OPERATION

- Fitting and operating this router on a router table should be done in accordance to the literature supplied with your router table
- This product was designed for efficient and convenient operation on most router tables, but is particularly suited to the Triton Router Table
- Router adjustments are made extremely easy using the unique features described earlier in the manual. Refer to 'Fitting a collet and router bit' and 'Adjusting the depth of cut'
- The Table Height Winder (18) engages with the Table-Winder Connection Point (10) for quick and easy above-the-table height adjustment when the router is table-mounted

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# MAINTENANCE

**WARNING:** Always disconnect from the power supply before carrying out any maintenance/cleaning.

**Cleaning**

- Keep your tool clean at all times. Dirt and dust will cause internal parts to wear quickly, and shorten the machine's service life. Clean the body of your machine with a soft brush, or dry cloth. If available, use clean, dry, compressed air to blow through the ventilation holes

**Brush replacement**

The carbon brushes are a consumable item which should be inspected periodically and replaced when worn. Failure to do so may result in damage to the motor.

1. With the router disconnected from power, unscrew the Brush Caps (2) located on the front and rear of the motor.
2. Remove the brushes by pulling carefully on the protruding springs.
3. If either of the brushes is worn to less than 6mm long, they must both be replaced using genuine Triton replacement brushes - available from Authorised Triton Repair Centres.

**Power cord replacement**

If the supply cord needs replacing, the task must be carried out by the manufacturer, the manufacturer's agent, or an authorised service centre in order to avoid a safety hazard.

**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

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# TROUBLESHOOTING

The following chart contains information designed to assist in diagnosing and resolving router problems.

| SYMPTOM | POSSIBLE CAUSE | REMEDY |
|---|---|---|
| Router will not operate | No supply of power | Check power is available at source |
| | Brushes worn or sticking | Disconnect power, open brush caps and ensure brushes move freely in the holders. Check whether the brushes require replacing - see 'Brush Replacement' |
| | Switch is faulty | Go to www.tritontools.com for your nearest Triton Approved Service Agent |
| | Motor components faulty or short circuited | |
| Router runs slowly | Blunt or damaged cutter | Re-sharpen or replace cutter |
| | Variable speed set low | Increase variable speed setting |
| | Motor is overloaded | Reduce pushing force on router |
| Makes an unusual sound | Mechanical obstruction | Go to www.tritontools.com for your nearest Triton Approved Service Agent |
| | Armature has shorted sections | |
| Excessive Vibration | Bent cutter shank | Replace cutter |
| Heavy sparking occurs inside motor housing | Brushes not moving freely | Disconnect power, remove brushes, clean or replace |
| | Armature short circuited or open circuited | Go to www.tritontools.com for your nearest Triton Approved Service Agent |
| | Commutator dirty | |
| Shutter on power switch not releasing | Router is plunged to full depth – in collet lock position | Reduce plunge depth |
| Can't plunge to collet lock position | Power switch "On" | Switch power 'Off' |

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## 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: JOF001
Serial Number: _____

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 12 MONTHS from the date of original purchase, Triton will repair, or at its discretion replace, the faulty part free of charge.

This guarantee does not apply to commercial use nor does it extend to normal wear and tear or damage as a result of accident, abuse or misuse.

* Register online within 30 days.

Terms & conditions apply.

This does not affect your statutory rights

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