

# **triton** <sup>1/2"</sup> PRECISION ROUTER

## OPERATING & SAFETY INSTRUCTIONS

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FROM:

PLEASE  
AFFIX  
STAMP



**IMPORTANT:**  
This router has a number of unique features. Even if you are familiar with routers, please read this manual to make sure you get the full benefits of the unique design.

Please keep this manual close to hand and ensure all users of this router have read and fully understand them.

Due to our company policy of continuous product improvement, specifications may change without prior notice.

TO:

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<p><b>Triton Manufacturing &amp; Design Co. Pty. Ltd.</b> ACN 000 195 951          14-18 Mills Street, Cheltenham, Victoria 3192          Ph: (03) 9584 6977 Fax: (03) 9584 5510 E-mail: tools@triton.net.au</p> <p><b>Canada:</b> Triton Woodworking Systems, PO Box 523, Cornwall, Ontario, K6H-5T2          Ph: 1 888 874 8661 Fax: (613) 936 1641</p> <p><b>Japan:</b> M. World, 680-1 Utsunobara, Geihoku-cho, Yamagata-gun, Hiroshima          Free Call: 0120 171 079 Fax: (08263) 8 0841</p> <p><b>New Zealand:</b> Hills Industries Ltd, 52 Ash Rd. Wiri, Auckland 1701          Ph: (09) 262 3052 Fax: (09) 262 3053</p> <p><b>South Africa:</b> Tritonova, PO Box 6391, Welgemoed 7538          Free Call: 0800 600432 Fax: (021) 981 9753</p> <p><b>United Kingdom:</b> Triton Workshop Systems (UK) Ltd, C/- Hills Industries Limited, Pontygwindy Industrial Estate, Caerphilly South Wales Free Call: 0800 856 7600 Fax: 2 920 886 102</p>	 <p>Quality System          ✓ Endorsed Company          ✓ ISO9001 Lic 2136          ✓ Standards Australia</p>
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# SAFETY

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

## WORK AREA:

- **Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents.
- **Do not operate the router in an environment where explosive or corrosive gases could be present.** Power tools create sparks which may ignite fumes. and avoid areas where there is excessive dampness or humidity.
- **Keep bystanders at a safe distance while operating the router.** Distractions can cause you to lose control.

## ELECTRICAL SAFETY:

- **Where a polarised (2 pin) plug is supplied ensure it fits flush into your power outlet.** If it does not fit, contact a qualified electrician. **DO NOT MODIFY THE PLUG.** Double insulation  eliminates the need for the three wire grounded power cord and grounded power supply system.
- **Avoid body contact with grounded surfaces such as pipes, radiators and refrigerators.** There is an increased risk of electric shock if your body is grounded.
- **Do not expose the router to wet conditions.** Water entering the router will increase the risk of electric shock if your body is grounded.
- **Do not abuse the power cord. Never use the cord to carry the router or to remove the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Have damaged cords replaced immediately by an authorised Triton Repair Centre.**
- **Always use a good quality extension lead where required. A heavy duty type should be used when working outdoors.** This will reduce the risk of electric shock.

## PERSONAL SAFETY:

- **Stay alert, watch what you are doing and use common sense when operating the router. Do not use the router while tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating the router may result in serious personal injury.
- **Dress properly. Do not wear loose clothing or jewellery. Contain long hair. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery, or long hair can be caught in moving parts.
- **Eye, ear and respiratory protection should always be used** when operating the router. Connecting the router to dust extraction is strongly recommended.
- **Keep hands clear of all rotating parts.**
- **Avoid accidental starting** by ensuring the router is switched off before plugging in.
- **Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the router in unexpected situations.



## WARRANTY REGISTRATION

Mr/Mrs/Ms: \_\_\_\_\_

Address: \_\_\_\_\_

Ph: (Private) (\_\_\_\_) \_\_\_\_\_ P/Code: \_\_\_\_\_

Ph: (Work) (\_\_\_\_) \_\_\_\_\_

I don't wish to be included on your mailing list.

Serial No: \_\_\_\_\_ Purchase date: \_\_\_\_/\_\_\_\_/\_\_\_\_  
(Located on motor label)

Retailer: \_\_\_\_\_

<b>Age:</b>	Under 25	25-35	36-45	46-55
	56-65	over 65		

Occupation: \_\_\_\_\_

### Please rank your reasons for purchasing a Triton Router:

(Please number from 1 to 6 with 1 being the most important reason)

- \_\_\_\_ Perfect for table mounting
- \_\_\_\_ Unique cutter depth adjusters
- \_\_\_\_ Strong & powerful
- \_\_\_\_ Comfortable to use hand-held
- \_\_\_\_ Respected brand
- \_\_\_\_ Highly recommended by retailer or colleague
- \_\_\_\_ Other: \_\_\_\_\_

### How do you intend using the Triton Router? (Please tick)

\_\_\_\_ Triton Router Table \_\_\_\_\_ Occasionally hand-held

\_\_\_\_ Regularly hand-held \_\_\_\_\_ Other: \_\_\_\_\_

### Please list any other Triton products you own:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

### COMMENTS / SUGGESTIONS

Our aim is to provide innovative quality products which are excellent value for money. If you have any comments on how we can improve our products or service, please let us know.

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Enclose additional comments / sketches if required.

# TRITON WARRANTY

Thank you for purchasing a Triton 1/2" Precision Router.

To register your warranty complete the attached Warranty Registration Card and return it to your local Triton office, as listed on the front cover, within 28 days of purchase.

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

## YOUR PURCHASE RECORD

Date of Purchase: \_\_\_\_/\_\_\_\_/\_\_\_\_

Model: **TR\_001**

Serial Number: \_\_\_\_\_  
(Located on motor label)

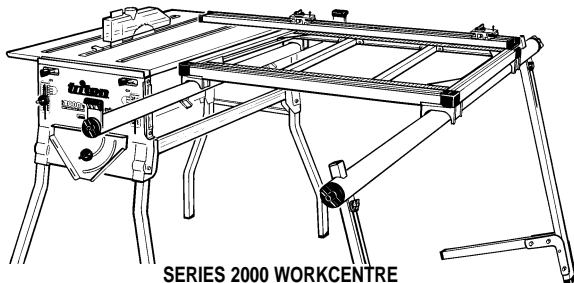
Retain your receipt as proof of purchase

Triton Manufacturing & Design Co. Pty. Ltd. warrants 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.

The Warranty excludes damage caused by misuse, neglect, accident or normal wear & tear.

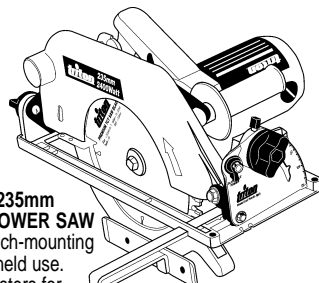
If product is faulty or requires service during the warranty period, please phone 1 300 655 686 for referral to your nearest authorised Triton Repair Centre. If outside of Australia, please contact your nearest Triton office (details on cover) to discuss arrangements for the repair or replacement of your product.

# OTHER PRODUCTS FROM TRITON



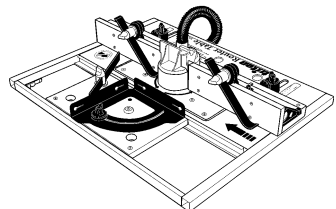
**SERIES 2000 WORKCENTRE**

Fit most circular saws for great accuracy, versatility and safety. Crosscut mode: 680mm wide. Tablesaw mode: 0 - 620mm rip capacity. Perfect mitres and bevels. Add the optional Sliding Extension Table (pictured) and the Router Table for even greater capacity and versatility.



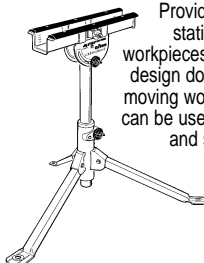
**TRITON 235mm PRECISION POWER SAW**

Perfect for bench-mounting and hand-held use. Micro-adjusters for precision cuts. Strong & powerful.



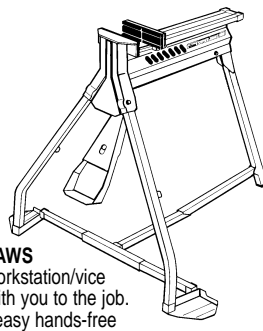
**ROUTER TABLE - RTA300**

Provides complete control of 1/2" and 3/4" routers for superbly accurate and decorative results on all your work. Fits Triton Workcentres and Router Stands. Optional Jigsaw Kit and Biscuit Joiner available.



**MULTI-STAND**

Provides dynamic or static support of workpieces. Unique head design does not "steer" moving workpieces, and can be used to clamp jigs and supports.



**SUPERJAWS**

Heavy duty workstation/vice that goes with you to the job. Fast and easy hands-free clamping. Apply pressure up to 1000 kg. Huge clamping range 0 - 900mm

# SAFETY (Cont.)

## TOOL USE & CARE:

- **Only use cutters and accessories specified as suitable for this router.**
- **Use only 1/2" shanked cutters & 1/4" shanked cutters with collet adaptor supplied.**
- **Inspect cutters before use. Never use damaged, blunt or dirty cutters.** Handle all cutters with care - they are very sharp and can be easily damaged. Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.
- **Always disconnect from power** before making any tool adjustments or mounting to a table. Such preventative safety measures reduce the risk of starting the tool accidentally.
- **Do not use the router if the On/Off switch is not working correctly.** Any tool that cannot be controlled with the switch is dangerous and must be repaired. If there appears to be a problem refer to the "Trouble-shooting" and if necessary contact a repair centre.
- **Ensure the workpiece is securely clamped when routing hand-held.** Holding the work by hand or against your body is unstable and may lead to loss of control. **When using hand-held, hold the router firmly with both hands and always feed against the direction of cutter rotation.**
- **Do not exceed the cutter manufacturers' rpm specifications.**
- **Check for misalignment (ie. excessive vibration), binding of moving parts, or any damage that may affect the routers operation.** If required have the router serviced before use. Many accidents are caused by poorly maintained tools.
- **Never start the router while the cutter is touching the workpiece.**
- **Ensure the cutter has completely stopped before plunging to the collet lock position.**
- **Do not handle cutters immediately after use - they become very hot.**
- **Ensure the removable plunge spring is always fitted when using hand-held.**
- **Do not force the router.** Adjust your feed rate to allow the tool to run at its' intended speed, without labouring.
- **Store the router in a dry location, out of the reach of children and other untrained persons.** This tool is dangerous in the hands of untrained users.

## SERVICE:

- **Any damage to the router should be repaired and carefully inspected** before use, by qualified repair personnel. Service or maintenance performed by unqualified personnel could result in a risk of injury.
- **Servicing should only be carried out by authorised Triton Repair Centres** using original Triton replacement parts. Follow instructions carefully and refer to "Trouble-shooting" for problem identification and advice. Use of unauthorised or faulty parts may create a risk of electric shock or injury.

# TROUBLESHOOTING

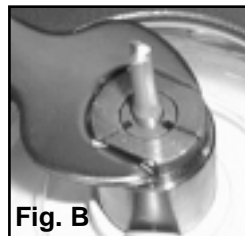
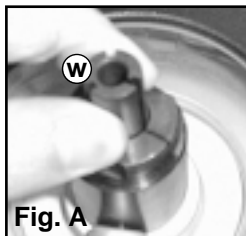
**This chart contains information to assist in resolving router problems.  
If a problem cannot be resolved using this advice do not tamper with the router -  
contact your local Triton branch for referral to your nearest authorised repair centre.**

SYMPTOM	POSSIBLE CAUSE	REMEDY
<ul style="list-style-type: none"> <li>● Router will not operate</li> </ul>	<ul style="list-style-type: none"> <li>● No supply of power</li> <li>● Brushes worn or sticking</li>   <li>● Switch is faulty</li> <li>● Motor components open or short circuited</li> </ul>	<ul style="list-style-type: none"> <li>● Check that power is available at source</li> <li>● Disconnect power, open brush caps and ensure brushes move freely in the holders. Check whether the brushes require replacing, as shown on Page 10.</li> <li>● Contact Repair Centre</li> <li>● Contact Repair Centre</li> </ul>
<ul style="list-style-type: none"> <li>● Router runs slowly</li> </ul>	<ul style="list-style-type: none"> <li>● Blunt or damaged cutter</li> <li>● Variable speed set low</li> <li>● Motor is overloaded</li> </ul>	<ul style="list-style-type: none"> <li>● Re-sharpen or replace cutter</li> <li>● Increase variable speed setting.</li> <li>● Reduce pushing force on router.</li> </ul>
<ul style="list-style-type: none"> <li>● Makes an unusual sound</li> </ul>	<ul style="list-style-type: none"> <li>● Mechanical obstruction</li> <li>● Armature has shorted sections</li> </ul>	<ul style="list-style-type: none"> <li>● Contact Repair Centre</li> <li>● Contact Repair Centre</li> </ul>
<ul style="list-style-type: none"> <li>● Excessive vibration</li> </ul>	<ul style="list-style-type: none"> <li>● Collet is loose.</li> <li>● Bent cutter shank</li> </ul>	<ul style="list-style-type: none"> <li>● Tighten collet and ensure 1/4" collet adaptor (if fitted) is correctly installed.</li> <li>● Replace cutter</li> </ul>
<ul style="list-style-type: none"> <li>● Heavy sparking occurs inside motor housing</li> </ul>	<ul style="list-style-type: none"> <li>● Brushes not moving freely</li> <li>● Armature short circuited or open circuited</li> <li>● Commutator dirty</li> </ul>	<ul style="list-style-type: none"> <li>● Disconnect power, remove brushes, clean or replace</li> <li>● Contact Repair Centre</li>   <li>● Contact Repair Centre</li> </ul>
<ul style="list-style-type: none"> <li>● Micro adjuster tight or not winding</li> </ul>	<ul style="list-style-type: none"> <li>● Plunge lock engaged</li> <li>● Plunge selector in "Locked" position</li> </ul>	<ul style="list-style-type: none"> <li>● Release plunge lock lever</li> <li>● Switch plunge mode selector to "Unlock"</li> <li>Refer to "Handle Winder Plunge"</li> </ul>
<ul style="list-style-type: none"> <li>● Plunge lock lever not locking</li> </ul>	<ul style="list-style-type: none"> <li>● Plunge lock lever not correctly positioned</li> </ul>	<ul style="list-style-type: none"> <li>● Re-position plunge lock lever as described in "Free Plunge"</li> </ul>
<ul style="list-style-type: none"> <li>● Shutter on power switch not releasing</li> </ul>	<ul style="list-style-type: none"> <li>● Router is plunged to full depth - in collet lock position</li> </ul>	<ul style="list-style-type: none"> <li>● Reduce plunge depth</li> </ul>
<ul style="list-style-type: none"> <li>● Can't plunge to collet lock position</li> </ul>	<ul style="list-style-type: none"> <li>● Power switch "On"</li> </ul>	<ul style="list-style-type: none"> <li>● Switch power "Off".</li> </ul>

## COLLET REDUCER

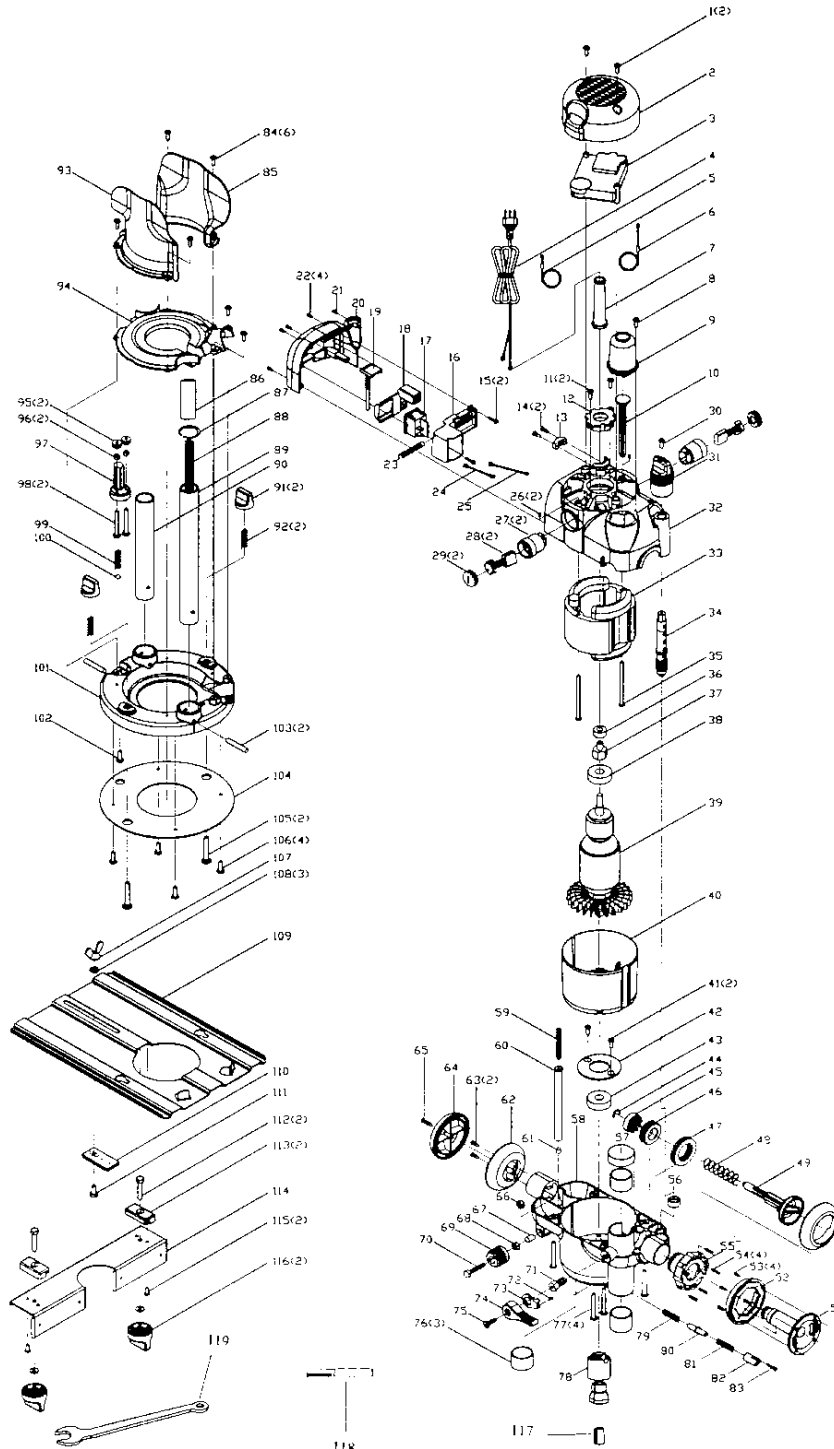
A Collet Reducer (**w**) is supplied for use of the small shanked (eg. 1/4") cutters.

With the router collet locked (see Fitting & Changing Cutters) fit the collet reducer into the collet and rotate it until the through-slot in the reducer aligns with the slot in the collet (**Fig. A**). Fit your small shanked router bit into the collet (**Fig. B**) and tighten into position.



1	TRA067	Screw, motor top cover	63	TRA093	Screw, fixed handle inner
2	TRA007	Motor top cover	64	TRA045	Fixed handle outer
3	TRA027	Speed controller	65	TRA094	Screw, fixed handle outer
4	TRA057	Plug and cord	66	TRA095	Nut, depth stop
5	TRA068	Brush connection B	67	TRA032	Brass plug, depth stop
6	TRA069	Brush connection A	68	TRA096	M6 nut, depth stop
7	TRA018	Cord relief	69	TRA031	Depth stop knob
8	TRA070	Screw, rack post cap	70	TRA097	M6 bolt, depth stop
9	TRA053	Rack post cap	71	TRA049	Bolt, plunge lock
10	TRA065	Guide, rack post spring	72	TRA098	Screw, plunge lock lever plate
11	TRA071	Screw, upper armature bearing plate	73	TRA050	Plate, plunge lock lever
12	TRA016	Upper armature bearing plate	74	TRA048	Plunge lock lever
13	TRA017	Cord restraint	75	TRA099	Screw, plunge lock lever
14	TRA072	Screw, cord restraint	76	TRA051	Bush, rack and smooth posts
15	TRA073	Screw, switch mount	77	TRA101	Screw, motor body
16	TRA019	Switch mount	78	TRA013	Chuck Assembly
17	TRA054	Switch	78.1	TRA102	Chuck body
18	TRA020	Slide cover, switch	78.2	TRA103	Chuck inner
19	TRA034	Guide, depth stop spring	79	TRA104	Spring, shaft lock (inner)
20	TRA006	Housing cover, switch end	80	TRA026	Pin, shaft lock
21	TRA074	Screw, switch cover, short	81	TRA105	Spring, shaft lock (outer)
22	TRA075	Screw, switch cover, long	82	TRA025	Button, shaft lock
23	TRA076	Spring, switch cover	83	TRA106	Screw, shaft lock button
24	TRA077	Connecting wire, brown	84	TRA107	Screw, chip shield
25	TRA078	Connecting wire, blue	85	TRA022	Chip shield, rear
26	TRA079	Screw, brush holder	86	TRA108	Liner, rack post
27	TRA056	Brush holder	87	TRA109	Snap ring, rack post
28	TRA055	Brush	88	TRA110	Spring, rack post
29	TRA080	Cap, brush holder	89	TRA010	Rack post
30	TRA081	Screw, micro adjust knob	90	TRA011	Smooth post
31	TRA035	Micro adjust knob	91	TRA064	Knob, fence attachment
32	TRA005	Upper motor body	92	TRA111	Spring, fence attachment knob
33	TRA003	Field	93	TRA021	Chip shield, front
34	TRA036	Worm shaft, metric	94	TRA023	Vacuum shield
35	TRA082	Screw, field	95	TRA030	Turret wheel
36	TRA083	Magnet ring	96	TRA112	Nut, turret wheel
36&37	TRA027	Magnet ring & mount assembly	97	TRA028	Turret
37	TRA084	Mount, magnet ring	98	TRA113	Screw, turret wheel
38	TRA085	Upper armature bearing	99	TRA114	Spring, turret
39	TRA002	Armature	100	TRA029	Turret detent ball
40	TRA024	Fan shroud	101	TRA008	Base
41	TRA086	Screw, lower armature bearing plate	89,90,101,103	TRA125	Base & post assembly
42	TRA015	Lower armature bearing plate	102	TRA115	Screw, turret pivot
43	TRA014	Lower armature bearing	103	TRA116	Roll pin, posts
44	TRA087	E ring	104	TRA009	Base plate
45	TRA044	Clutch plate	105	TRA117	Coach bolt, fence attachment
46	TRA043	Plunge pinion	106	TRA118	Screw, baseplate
47	TRA037	Worm wheel, metric	107	TRA119	Wing nut, circle cutter
48	TRA088	Spring, plunge selector	107 to 111	TRA128	Fence plate & circle cutter assembly
49	TRA040	Plunge selector	108	TRA120	Washer, circle cutter
50	TRA038	Plunge handle outer	109	TRA059	Fence plate
51	TRA041	Plunge handle shaft	110	TRA063	Circle cutter pivot
52	TRA039	Plunge handle inner	111	TRA121	Bolt, circle cutter
53	TRA089	Screw, plunge handle	112	TRA122	Bolt, fence slide clamp
54	TRA090	Spring, release ring	112 to 116	TRA126	Fence assembly
55	TRA042	Release ring	113	TRA061	Fence slide clamp
56	TRA047	Bush, metric worm	114	TRA060	Fence slide face
57	TRA091	Reinforcing ring	115	TRA123	Screw, fence slide clamp
57, 58, 76	TRA052	Lower motor body & bush assembly	116	TRA062	Knob, fence slide clamp
58	TRA004	Lower motor body	117	TRA129	1/4" reduction collet
59	TRA092	Spring, depth stop	118	TRA124	1/2" cutter
60	TRA033	Depth stop tube	119	TRA066	Spanner
61	TRA058	Plug, depth stop tube	-	PUA526	Instruction Manual
62	TRA046	Fixed handle inner			

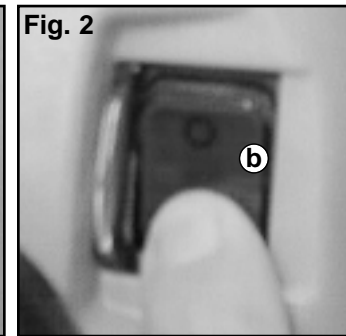
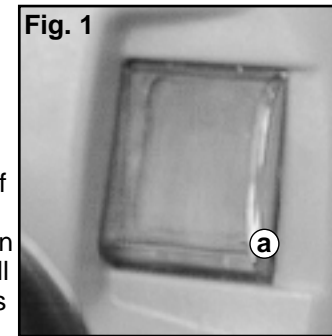
## SPARES LISTING



## POWER SWITCH

When the router is connected to power the switch (b) will illuminate (in both "on" and "off" positions).

The clear switch shutter (a) prevents accidental starting of the router **Fig. 1**. It must be retracted before the router can be switched on. The cover will remain open until the router is switched off. **Fig. 2**.



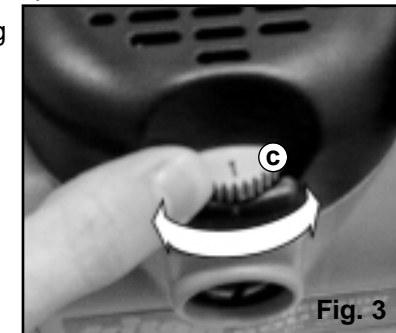
## VARIABLE SPEED CONTROL

The router speed should be adjusted according to cutter size. The highest setting is suitable for regular sized cutters, whereas large cutters require a lower setting. Speed should also be reduced if burn marks appear on the workpiece.

The Speed Control (c) is marked 1 to 5, corresponding approximately with the speeds shown below.

Setting	rpm
1	8,000
2	10,000
3	14,000
4	18,000
5	20,000

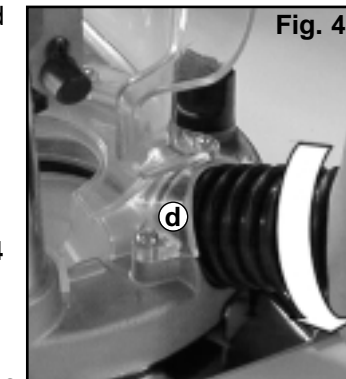
Turn the dial to select the desired speed. **Fig. 3**



## DUST EXTRACTION

The Triton Router is equipped with a Dust Port (d) for effective chip extraction. It accepts 38mm O.D. hose, supplied with the optional Triton Dust Collector (DCA300). The hose screws into position via a left hand thread (anti-clockwise). **Fig. 4**

The Triton Dust Collector connects to any vacuum cleaner for a huge 20L capacity. **Fig. 5**. It incorporates a built-in filter and two dust ports for simultaneous collection above and below the Triton Router Table.



# CUT DEPTH ADJUSTMENT

There are three methods of cut depth adjustment, depending on the accuracy and control required: **Free Plunge**, for conventional & fast depth setting; **Handle Winder Plunge**, for controlled & fast adjustment; and **Micro Adjuster**, for precise depth setting throughout the full plunge range.

## FREE PLUNGE

1. Turn the Plunge Mode Selector (e) to "lock" (🔒). Turn it clockwise, then push and continue turning until it "clicks" home. **Fig 6.** This locks the Handle Winder (f).

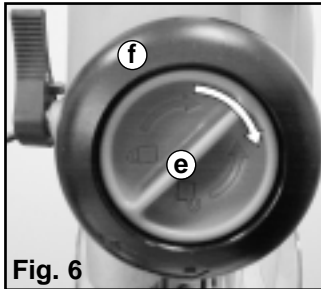


Fig. 6

2. Release the Plunge Lock Lever (g). Push the body of the router until the desired depth is reached. Re-lock the plunge lock lever. **Fig 7**

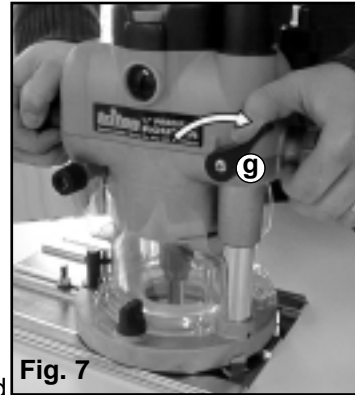


Fig. 7

**Note:** The position of the plunge lock lever can be altered by removing its retaining screw and repositioning the lever on the bolt. Re-tighten firmly.

## HANDLE WINDER PLUNGE

1. Turn the Plunge Mode Selector (e) to "unlock" (🔓). Turn it anti-clockwise, allow it to "pop" out (you may need to push down slightly on the router) and continue turning until it "clicks" home. **Fig 8.** Ensure the Plunge Lock Lever (g) is unlocked.

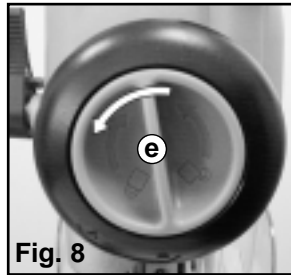


Fig. 8

2. Squeeze the Ring (h) on the Winder Handle (f) and turn the handle to raise or lower the cutter. **Fig 9.** Release the ring at the required depth, allowing it to "pop out", locking the router at the approximate location.

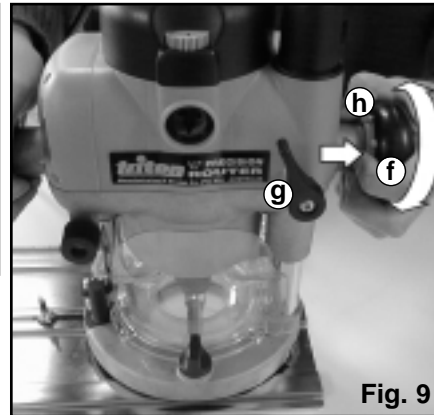


Fig. 9

3. Before operating lock the plunge lock lever (g), particularly for heavy cuts. **(Fig. 7)**

## MICRO ADJUSTER - For use in the Handle Winder Plunge Mode only.

1. Set the Plunge Mode Selector (e) to "unlock". **Fig 8,** and ensure that the plunge lock lever (g) is released.

2. Turn the Micro Adjuster Knob (i) clockwise to increase cut depth and anti-clockwise to reduce cut depth. **Fig 10. Important:** When reducing cut depth turn the micro-adjuster one extra full turn, then turn it back to the desired setting to take up any free play.

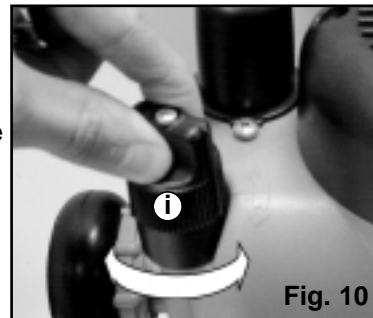


Fig. 10

# TROUBLESHOOTING

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

SYMPTOM	POSSIBLE CAUSE	REMEDY
<ul style="list-style-type: none"> <li>Router will not operate</li> </ul>	<ul style="list-style-type: none"> <li>No supply of power</li> <li>Brushes worn or sticking</li> <li>Switch is faulty</li> <li>Motor components open or short circuited</li> </ul>	<ul style="list-style-type: none"> <li>Check that power is available at source</li> <li>Disconnect power, open brush caps and ensure brushes move freely in the holders. Check whether the brushes require replacing, as shown on Page 8.</li> <li>Contact Repair Centre</li> <li>Contact Repair Centre</li> </ul>
<ul style="list-style-type: none"> <li>Router runs slowly</li> </ul>	<ul style="list-style-type: none"> <li>Blunt or damaged cutter</li> <li>Variable speed set low</li> <li>Motor is overloaded</li> </ul>	<ul style="list-style-type: none"> <li>Re-sharpen or replace cutter</li> <li>Increase variable speed setting.</li> <li>Reduce pushing force on router.</li> </ul>
<ul style="list-style-type: none"> <li>Makes an unusual sound</li> </ul>	<ul style="list-style-type: none"> <li>Mechanical obstruction</li> <li>Armature has shorted sections</li> </ul>	<ul style="list-style-type: none"> <li>Contact Repair Centre</li> <li>Contact Repair Centre</li> </ul>
<ul style="list-style-type: none"> <li>Excessive vibration</li> </ul>	<ul style="list-style-type: none"> <li>Collet is loose.</li> <li>Bent cutter shank</li> </ul>	<ul style="list-style-type: none"> <li>Tighten collet and ensure 1/4" collet adaptor (if fitted) is correctly installed.</li> <li>Replace cutter</li> </ul>
<ul style="list-style-type: none"> <li>Heavy sparking occurs inside motor housing</li> </ul>	<ul style="list-style-type: none"> <li>Brushes not moving freely</li> <li>Armature short circuited or open circuited</li> <li>Commutator dirty</li> </ul>	<ul style="list-style-type: none"> <li>Disconnect power, remove brushes, clean or replace</li> <li>Contact Repair Centre</li> <li>Contact Repair Centre</li> </ul>
<ul style="list-style-type: none"> <li>Micro adjuster tight or not winding</li> </ul>	<ul style="list-style-type: none"> <li>Plunge lock engaged</li> <li>Plunge selector in "Locked" position</li> </ul>	<ul style="list-style-type: none"> <li>Release plunge lock lever</li> <li>Switch plunge mode selector to "Unlock" Refer to "Handle Winder Plunge"</li> </ul>
<ul style="list-style-type: none"> <li>Plunge lock lever not locking</li> </ul>	<ul style="list-style-type: none"> <li>Plunge lock lever not correctly positioned</li> </ul>	<ul style="list-style-type: none"> <li>Re-position plunge lock lever as described in "Free Plunge"</li> </ul>
<ul style="list-style-type: none"> <li>Shutter on power switch not releasing</li> </ul>	<ul style="list-style-type: none"> <li>Router is plunged to full depth - in collet lock position</li> </ul>	<ul style="list-style-type: none"> <li>Reduce plunge depth</li> </ul>
<ul style="list-style-type: none"> <li>Can't plunge to collet lock position</li> </ul>	<ul style="list-style-type: none"> <li>Power switch "On"</li> </ul>	<ul style="list-style-type: none"> <li>Switch power "Off".</li> </ul>

If a problem cannot be resolved using the above advice do not tamper with the router - contact your local Triton branch (details on cover) for referral to your nearest authorised repair centre.

## TABLE-MOUNTED OPERATION

- Fitting and operating this router on a Triton Router Table should be done in accordance to the literature supplied with your Router Table.

While the Triton Router was designed for efficient and convenient operation on most router tables, it is particularly suited to Triton brand tables.

Router adjustments are made extremely easy using the unique features described earlier in the manual. Refer to “Fitting & Changing Cutters” and “Cut Depth Adjustment”.

### REMOVABLE PLUNGE SPRING

The Plunge Spring can be quickly removed to reduce effort when adjusting plunge depth while mounted upside down.

1. Set the router to the top of its plunge range and engage the plunge lock lever.
2. Loosen the small screw next to the Plunge Spring Cap (t) a few turns. Twist the cap slightly anti-clockwise to remove it. **Fig. 27.** **Note:** hold the cap firmly while releasing tension from the spring.
3. Remove the spring and store in a safe place.
4. Replace the plunge spring cap and re-tighten the screw.

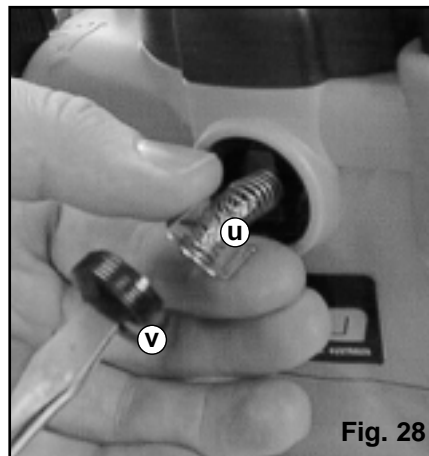


**WARNING: Only remove the plunge spring when fitted beneath a router table. Ensure it is always fitted for hand-held use.**

## BRUSH REPLACEMENT

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

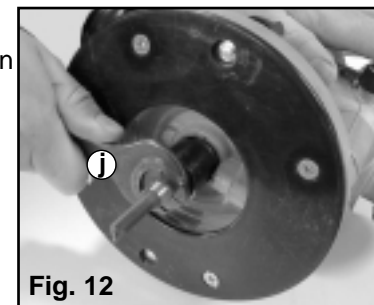
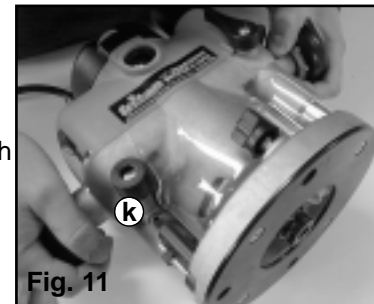
1. **With the router disconnected from power,** unscrew the Brush Caps (v) located on the front and rear of the motor.
2. Remove the brushes by pulling carefully on the protruding springs. **Fig. 28.**
3. If either of the brushes (u) is worn to less than 6mm long, they must both be replaced using genuine Triton replacement brushes - available from Authorised Triton Repair Centres.



Triton Manufacturing & Design Co. Pty. Ltd. will not be responsible for any damage or injury caused by unauthorised repair of the router or by mishandling of the tool.

## FITTING AND CHANGING CUTTERS

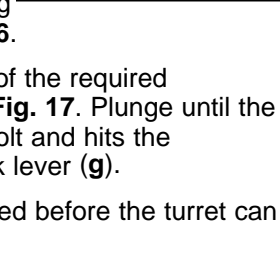
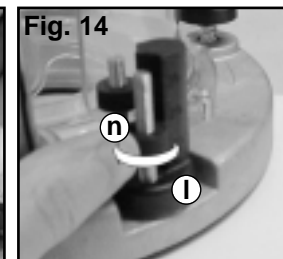
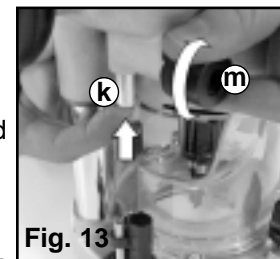
1. Turn the power switch (b) “off”, allowing the switch shutter (a) to close (**Fig. 1**). (The shutter will lock closed when the collet lock is engaged.)
2. **Wait until the cutter has completely stopped spinning** then plunge the router to its maximum depth using the free plunge or winder handle plunge mode. **Fig. 11.** **Note:** ensure the depth stop (k) is released (see Fig. 13 below). The collet should now protrude through the base (and the Triton Router Table if fitted), allowing easy spanner access.
3. Use the spanner (j) supplied to turn the collet slightly, allowing the collet lock to engage. Once engaged, turn the spanner anti-clockwise to release, or clockwise to tighten the cutter. **Fig. 12.**  
**Note:** When fitting cutters, ensure the shank is inserted fully into the collet.
4. Return the router to a normal operating depth. This will disengage the collet lock and release the switch shutter, enabling access to the power switch.



## DEPTH STOP & TURRET

Cut depth can be accurately preset using the Depth Stop (k) and Turret (l) in the free plunge mode.

1. Loosen the Depth Stop Lock (m) and retract the depth stop fully, then re-tighten. **Fig. 13.**
2. Set the Turret Thumbwheel(s) (n) to the desired plunge depth(s) using the scales on the turret post. **Fig. 14.**
3. Fit the cutter, and adjust the plunge depth until the cutter tip is level with your “zero datum” (eg. router base or Router Table surface). **Fig. 15.**
4. Rotate the turret until the fixed turret post is in line with the depth stop. Release the stop, allowing it to spring onto the post, then re-tighten. **Fig. 16.**
5. Rotate the turret again until the bolt of the required thumbwheel is in line with the stop. **Fig. 17.** Plunge until the hollow depth stop locates over the bolt and hits the thumbwheel. Engage the plunge lock lever (g).

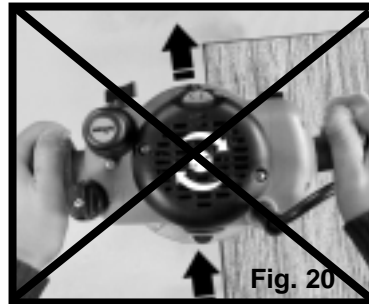
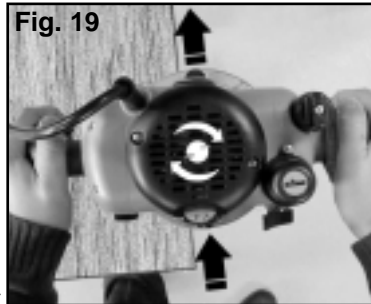


**Note:** the plunge depth must be reduced before the turret can be rotated to another stop position.



## HAND-HELD OPERATION

- Always use both hands to control the router and ensure your workpiece is securely clamped to prevent any movement during operation. **Fig. 18.**
- Never operate the router free-hand without some form of guidance. Guidance can be provided by a bearing guided cutter, the fence guide supplied or a straight edge (eg. a batten clamped to your work as shown in Fig. 18).
- Always feed against the direction of cutter rotation (clockwise, as indicated by the arrows on the router base). **Fig. 19.**
- Do not operate the router upside down unless securely mounted in a well guarded router table (eg. Triton brand).

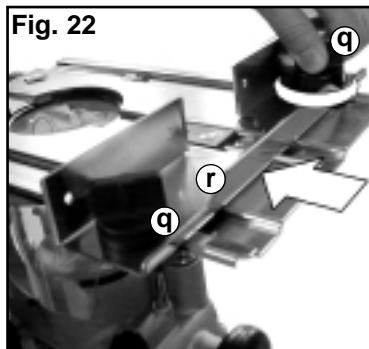
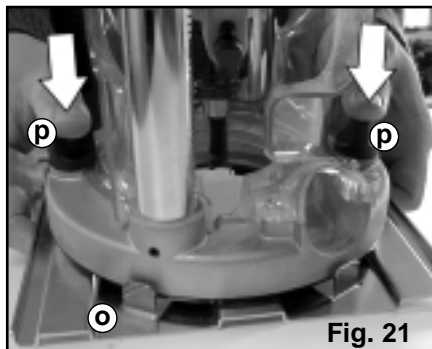


### THE BASE ASSEMBLY

The Base (o) supplied with the Triton Router can be used as an extended baseplate, as a fence or as a circle cutter.

### FITTING THE FENCE

1. Loosen the Mounting Knobs (p) until they are approximately 10mm ( $\frac{3}{8}$ " ) above the base of the router.
2. Position the router inside the tabs on the Base (o), with the knobs above the two keyhole slots. **Note:** the router can be mounted with the long overhang to the left or to the right depending on where the support is required. For edge work, locate the power switch on the short overhang side of the base, as shown in Fig. 23.
3. Push down on the mounting knobs until the bolt heads locate into the keyholes, then slide the router until it sits against the locating tabs. **Fig. 21.** Tighten the knobs firmly.
4. Loosen the Fence Knobs (q) a few turns and slide the Fence (r) onto the base from the chosen end. **Fig. 22.** Lock at the desired setting by tightening both fence knobs.



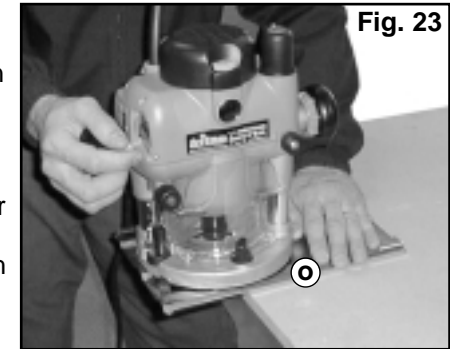
## HAND-HELD OPERATION (Cont.)

### USING THE FENCE

#### Extended Base

The fence base (o) provides greater stability when using bearing guided cutters along an edge. The fence (r) is not used for these cuts.

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. **Fig. 23.** **Note:** position the router with the power switch closest to your right hand.



#### Fence

Fit the Fence (r) to the short end of the base (o) for use when performing edge work with a non-bearing cutter. Use the hand positions shown in Fig. 23.

When routing trenches some distance in from an edge, fit the fence to the long end of the base. **Fig. 24.**

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.



#### Circle Cutter

1. Fit the base (o) (without the fence) to the router.
2. Remove the Pivot Mount (s) from the base and fix it to the centre of your work using a small nail or screw through one of the small holes provided. **Fig. 25.** Leave the bolt fitted through the pivot mount.
3. Position the router and base over the pivot mount and refit the washer and wing-nut.

With the power switched "Off", rotate the router along the intended path to check the circle, and make any necessary adjustments.

4. Cut the circle in several passes, lowering the cut depth by say 2mm each pass. 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 your workpiece. **Fig. 26.** 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.

