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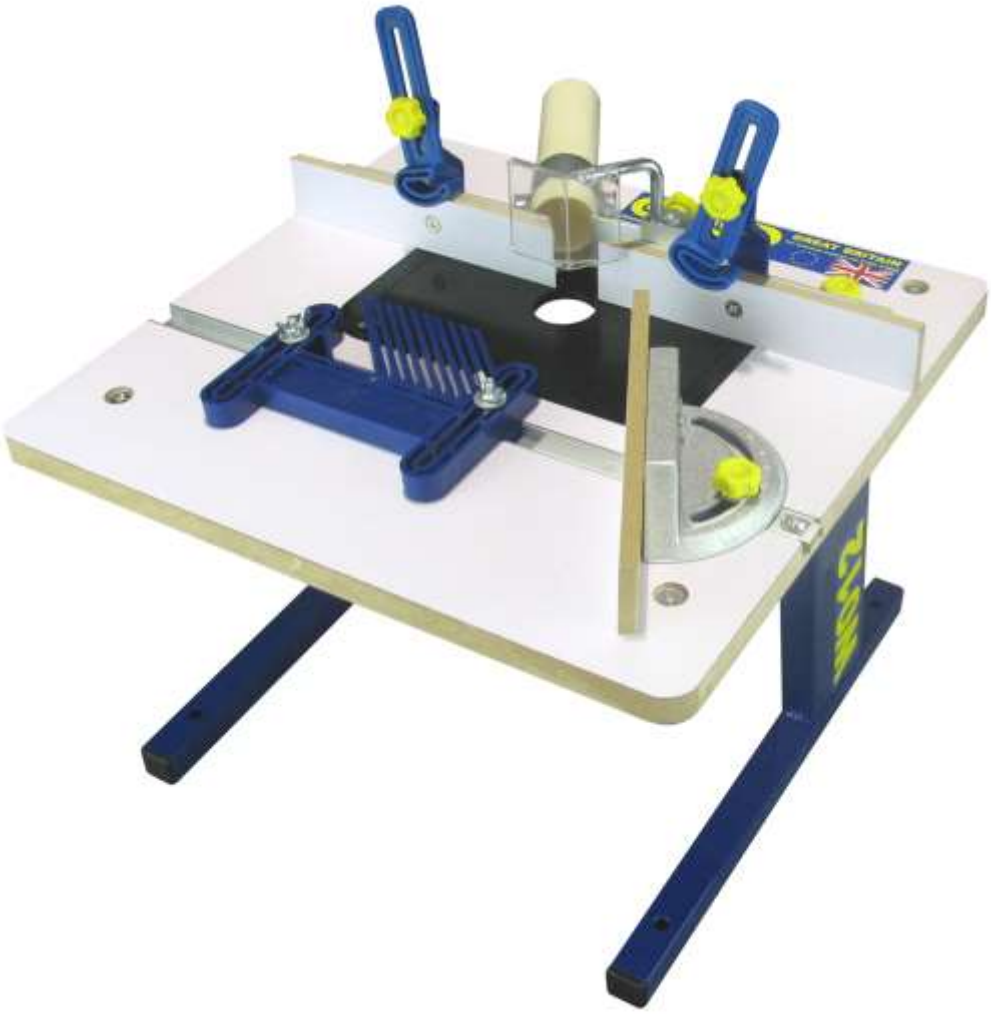
BENCH TOP ROUTER TABLE
OWNERS MANUAL

MODEL: W012



Charnwood, Cedar Court, Walker Road, Hilltop Industrial Estate, Bardon, Leicestershire, LE67 1TU

Tel. 01530 516 926 Fax. 01530 516 929
email: sales@charnwood.net website: www.charnwood.net

GENERAL SAFETY RULES

WARNING: Do not attempt to operate the machine until you have read thoroughly and understood completely all instructions, rules, etc. contained in this manual. Failure to comply may result in accidents involving fire, electric shock, or serious personal injury. Keep this owner's manual and review frequently for continuous safe operation.

1. Know your machine. For your own safety, read the owner's manual carefully. Learn its application, limitations, and specific potential hazards pertinent to this machine.

2. Make sure all tools are properly earthed.

3. Keep guards in place and in working order. If a guard must be removed for maintenance or cleaning, make sure it is properly replaced before using the machine.

4. Remove adjusting keys and spanners. Form a habit of checking to see that the keys and adjusting spanners are removed from the machine before switched it on.

5. Keep your work area clean. Cluttered areas and workbenches increase the chance of an accident.

6. Do not use in dangerous environments. Do not use power tools in damp or wet locations, or expose them to rain. Keep work areas well illuminated.

7. Keep children away. All visitors should be kept a safe distance from the work area.

8. Make workshop childproof. Use padlocks and remove starter keys.

9. Do not force the machine. It will do the job better and be safer at the rate for which it is designed.

10. Use the right tools. Do not force the machine or attachments to do a job for which they are not designed. Contact the manufacturer or distributor if there is any question about the machine's suitability for a particular job.

11. Wear proper apparel. Avoid loose clothing, gloves, ties, rings, bracelets, and jewellery which could get caught in moving parts. Non-slip footwear is recommended. Wear protective hair covering to contain long hair.

12. Always use safety glasses. Normal spectacles only have impact resistant lenses. They are not safety glasses.

13. Do not over-reach. Keep proper footing and balance at all times.

14. Maintain machine in good condition. Keep machine clean for best and safest performance. Follow instructions for lubrication and changing accessories.

15. Disconnect the machine from power source before servicing and when changing accessories or (if using a fixed base router) when mounting or remounting the motor.
16. To avoid accidental starting, make sure the switch is in the OFF position before plugging in the mains cable.

17. Never leave the machine running unattended. Turn the power off. Do not leave the machine until it comes to a complete stop.

18. Do not use any power tools while under the effects of drugs, alcohol or medication.

19. Always wear a face or dust mask if operation creates a lot of dust and/or chips. Always operate the tool in a well ventilated area and provide for proper dust removal. Use a suitable dust extractor.

ADDITIONAL RULES FOR ROUTER TABLES

1. Always hold the work piece against the fence.

2. Never perform any "free hand" operation. Do not use only your hands to support or guide the work piece. Always use feather boards to help secure the work piece when cutting smaller pieces.

3. Feed the work piece to the router bit against the rotating direction. Feed direction will normally be from right to left.

4. Never draw the workpiece back during cutting. Wait until the router bit stops before drawing back the workpiece.

5. Make sure the portable router has been installed securely before starting the machine.

6. Make sure the router bit is locked securely before operating.

Risk of Injury!
Never reach into the rotating bit.

Wear Eye Protection

Wear Ear Protection

Specification

Table surface	430mm x 400mm
Table aperture diameter	37.5mm
Insert Size	235mm x 171mm
Table Height	288mm
Height Under Table (can be increased with lift blocks)	260mm
Dust hood outlet diameter (Outside / Inside)	40/37mm
Net weight	6kg
Rating	Hobby

Rating Description

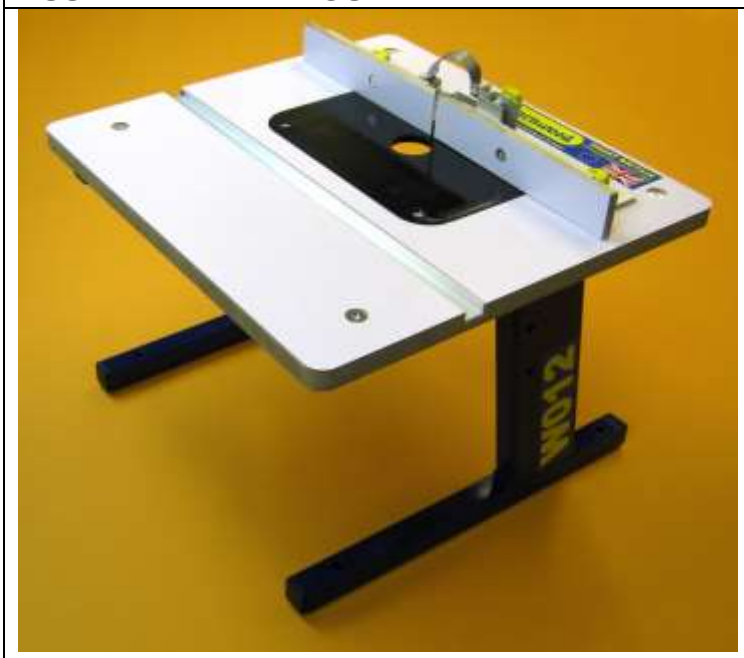
Hobby: Suitable for Weekend DIY'ers and woodworking enthusiasts.
Generally lighter weight machines with lower power ratings and smaller tooling capacities. Typically only ever used by one person for short periods of time or longer periods of time infrequently. Machinery should be well maintained in a clean, dry environment such as a home workshop, garage or timber shed.
Expected maximum use of 100 hours annually.

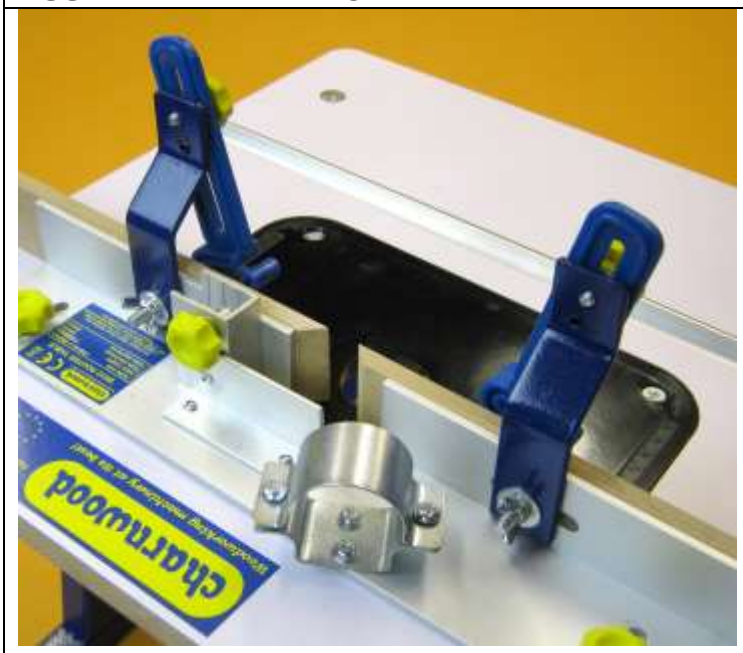
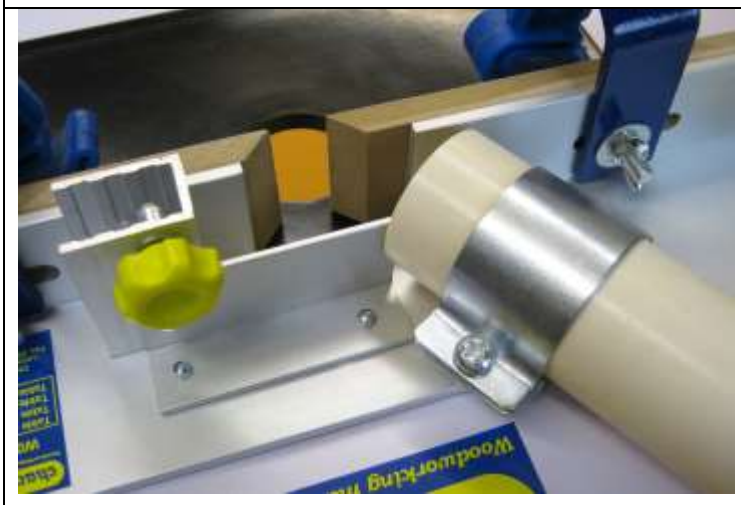
Please Note: Using a product in excess of its rating will void the manufacturer's free warranty.

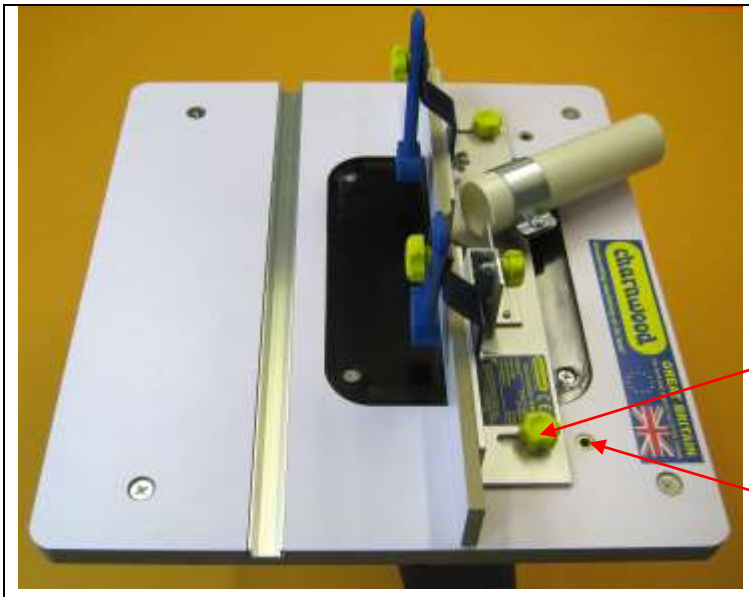
ASSEMBLY INSTRUCTIONS

All Parts are packed in one carton.

Unpack the parts carefully and check that everything is present using the Parts List. If anything is missing contact the retailer immediately.

ASSEMBLE THE LEGS		
		Attach the 2 Legs to the Table using 4 countersunk screws M8x55mm, Washers M8, and Hex Nuts M8.

ASSEMBLE THE FENCE		
		i) Remove the two M5 Wing Nuts and Washers holding the Wooden Fences to the Fence Base.
		ii) Attach the two Vertical Clamps and Vertical Clamp Supports and refit the Washers and Wing Nuts as shown in the picture.
		iii) Loosen the two M6 nuts, bolts washers holding the Dust Chute Clamp top and insert the Dust Chute. Re- tighten the screws to lock the Chute in place. iv) Attach the Guard to the fence by inserting the bar into the square post and locking it into place with Knob M6x16mm.



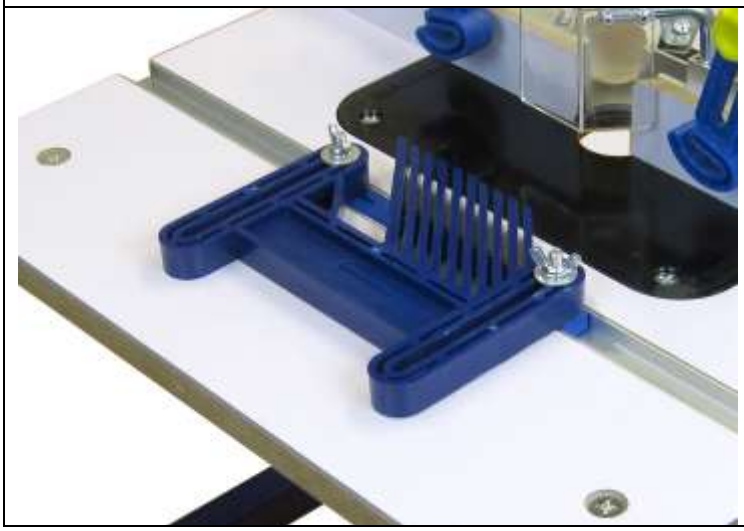
v) The Fence Assembly is fixed with two M6 x 16 Knobs with washers which pass through the slots in the fence base and into the threaded inserts in the Table.

There are two sets of threaded inserts in the table. The choice of which to use will depend on the type of job to be performed;

Position 1 allows the fence to be set at the front of the cutter aperture when making shallow cuts

Position 2 allows the fence to be set further back from the cutter for operations such as trenching

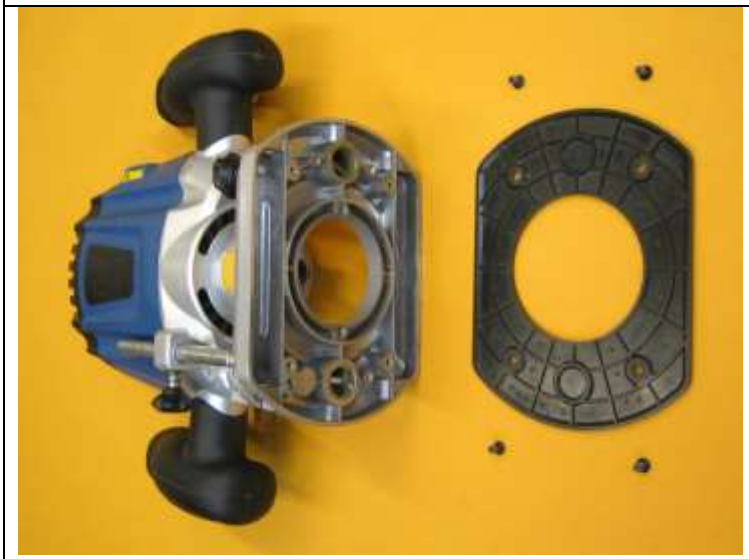
ASSEMBLE THE FEATHERBOARD



Fit the Feather board unit so that the Slot Guide locates into the aluminium channel across the front of the table.

The Feather board is locked into position using the two wing nuts.

ROUTER MOUNTING INSTRUCTIONS



i) MAKE SURE THE ROUTER IS UNPLUGGED.
Remove the face plate cover from the router.

ii) Remove the Insert Plate from the Router Table.

 Please Note: If your router does not have a removable face plate cover, measure the spacing of the fixing holes in the face plate and then mark out the insert plate, keeping the cutter aperture as the centre.		iii) Align the centre of the hole in the insert plate with the centre of the hole in the face plate cover. Using the face plate cover as a template, mark out the fixing holes. The number and position of the holes will vary with each model of router. Use the larger diameter holes if there is a choice. A minimum of two fixings must be used, three or four fixings is preferable with heavier routers. A selection of fixing screws is included in this package which covers most common routers, but we cannot guarantee to cover every available model of router. In some instances it may be necessary to obtain alternative fixing screws.
		iv) Drill and countersink the insert plate. Use a drill bit size suitable to the fixing screw you are going to use. If you do not have a countersink tool, drill the fixing hole and then make a countersink by partially drilling through with a larger diameter drill bit. Take care not to drill right through the insert plate.
		v) Leaving the face plate cover off (if removable type) attach the insert plate to the router using the fixing screws supplied or alternative screws where required. Ensure the heads of the screws are slightly below the surface of the table. If they are not, it is necessary to drill the countersink slightly deeper. vi) check that the router is secured tightly against the insert plate and that there is no movement between the two.

		vii) Install the desired cutter and set to the correct depth. Fit the router and insert plate into the table, securing with the four M6x16mm countersunk screws. Re-fit the fence and feather board.
		The maximum router height that can be fitted below this table is 260mm For unusually tall routers (such as the popular Trend model T4) it will be necessary to increase the height of the table by attaching riser blocks to the feet of the table legs. The router table is now ready to use
OPTIONAL ACCESSORIES		
		**NVR (No-Volt Release) Switch W026** We strongly recommend the use of a secondary switch to start and stop the router without having to reach under the table. Mounting holes for our W026 NVR switch are pre-drilled in the right-hand table leg. **PLEASE READ THE SAFETY INSTRUCTIONS BEFORE USE**

BASIC OPERATING INSTRUCTIONS

1) EDGING AND PROFILING

One of the most common operations undertaken using a router is Edging or Profiling, i.e. running a shaped cutter along the edge of the workpiece. In many instance this is for decorative purposes but it can also be to make a joint or fitting such as a raised panel.

Using a router table for this type of work vastly reduces the setting up time required and does away with many awkward clamping devices. Router table users soon find that having both hands free to control the workpiece, rather than holding a machine, makes the task far more comfortable and generally a lot safer.

SET THE CUTTER HEIGHT:- First fit a suitable cutter after making sure the router is unplugged. It is often easier to do this by unscrewing the insert plate from the table and lifting the router out of the table. Draw a profile of the required cut onto the edge of the workpiece and adjust the cutter height to match. Adjusting the cutter height is made much easier if a fine height adjuster is fitted to the router. With many models this now comes as standard, but on others it is available as an accessory produced by the router manufacturer. Having set the cutter height fit the router back into the table and secure with the four screws.

SET THE FENCE:- The next step is to set the fence in a position to give the desired width of cut. Use the profile drawn on the end of the workpiece to set the fence and lock into position. There is an engraved scale along each end of the Insert Plate to assist in rapid fence setting. When using a cutter fitted with a guide bearing the fence should be set in line or just in front of the edge of the bearing so that the workpiece runs on the face of the bearing. The distance between the two wooden fence faces can be adjusted by undoing the wing nuts and sliding the fence face along with the top clamp along the slot in the fence bracket. The fence faces should be set so that the edges just clear the cutter. This provides the maximum amount of support to the workpiece during the cut.

SET THE CLAMPS:- Adjust the Feather board so that the distance between the ends of the fingers and the fence is between 2 to 5mm less than the width of the workpiece. This will hold the workpiece securely against the fence and prevent 'kick-back' during the cut. Next set the left and right Top Clamps. The curved piece on the ends of the Top Clamp are made of flexible plastic and should be set so that the distance between the bottom of the clamp and the surface of the table is between 0 to 3mm less than the thickness of the workpiece. When the clamps are correctly set, the operator merely has to push the workpiece across the table.

Please Note: Some workpieces may be too big to fit inside either the Top Clamps or the Feather board, i.e. larger than 90x50mm. Simply remove the clamp/Feather board from the table. The function of the clamps is twofold; to hold the workpiece securely against the cutter, whilst keeping the hands well away from it. When using larger workpieces the increased weight will help to keep it against the cutter and the danger of hands being too near the cutter is greatly reduced.

SET THE CUTTER GUARD:- Adjust the transparent guard so that it just clears the work piece and will deflect any chips or dust which are thrown towards the operator. If possible connect a vacuum cleaner or dust extractor to the dust chute before commencing the cut.

Make a cut with a scrap piece of wood before using the workpiece.
Mistakes cannot usually be rectified afterwards.

2) GROOVING

Grooving and Trenching operations are often carried out to form joints such as slot dovetails or to make fittings such as draw runner grooves.

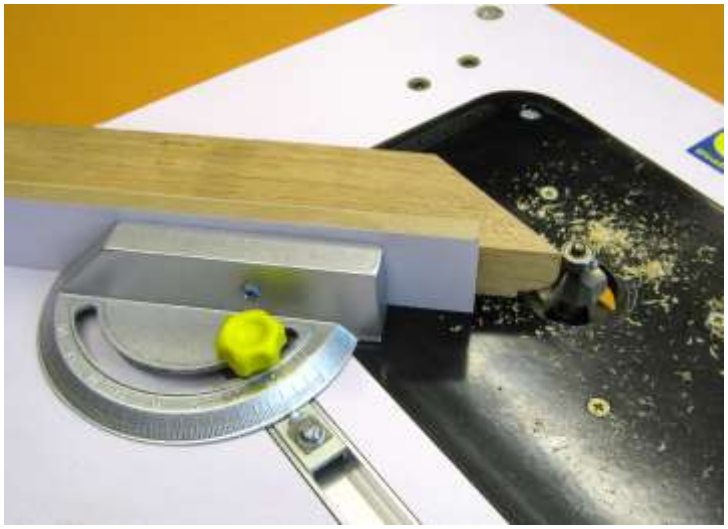
SET THE CUTTER HEIGHT:- Make sure the router is unplugged. Remove the router and Insert Plate from the table. Fit the appropriate cutter into the router and set the plunge depth to give the desired cut. Refit the router and insert plate into the router table and secure with the four screws.

SET THE FENCE:- The cut is made away from the edge of the workpiece and therefore it will probably be necessary to move the Fence back into Position 2. Measure the distance between the edge of the workpiece and the start of the groove and lock the fence in position with the two plastic knobs. The two wooden fence faces should be closed up to form one continuous fence which will provide the best support.

SET THE CLAMPS:- Set the Feather board and Top Clamps as for edging and profiling. Remove the Top Clamps or Feather board as necessary.

CUTTER GUARD:- The cutter guard and dust extraction chute are not used during this operation. Get into the habit of testing all cutter or table adjustments on a scrap piece of wood first before commencing on the workpiece.

3) USING THE MITRE GUIDE



For some operations it is not possible to use the fence as a guide, for example Trenching at an angle or cutting a Tenon where the width of the workpiece restricts good support from the fence. To do these jobs a sliding mitre guide is used which runs in the aluminium slot across the front of the table.

REMOVE THE FENCE:- Undo the two fixing screws and either remove the fence or adjust it to a position where it will not interfere with the cut.

SET THE ANGLE:- To change the angle of the mitre fence, undo the knob and read off the engraved scale on the casting. Tighten the knob at the required angle.

SACRIFICIAL FENCE:- The mitre fence can be enhanced by adding a longer wooden sacrificial fence to the front of the sliding fence. The sacrificial fence can run all the way up to the cutter and can be used to prevent breakout on the back edge of the work piece.

4) CUTTING CURVES

It is possible to put edge moulds on curved workpieces using a router table and a cutter with a bearing guide. Many cutters are now available with a bearing on top which is used as a guide instead of the fence.

SET THE CUTTER HEIGHT:- Set the cutter height in the normal manner. You cannot take off a whole edge when using a bearing guided cutter. Making sure there is enough of the edge left uncut for the cutter bearing to run on.

If the whole edge is to be removed or you wish to cut out a profile from a straight edge it is necessary to use a template. Attach the workpiece to the underside of the template so that once the cut is started the bearing will run on the edge of the template whilst the cutter touches only the workpiece.

5) REMOVING THE WHOLE EDGE

If the complete edge is to be removed, you may need to step the outfeed fence to correctly support the workpiece during the cut. The simplest way to achieve this is by loosening the wingnut holding the outfeed fence and inserting shims of the desired thickness between the aluminium support and fence face.

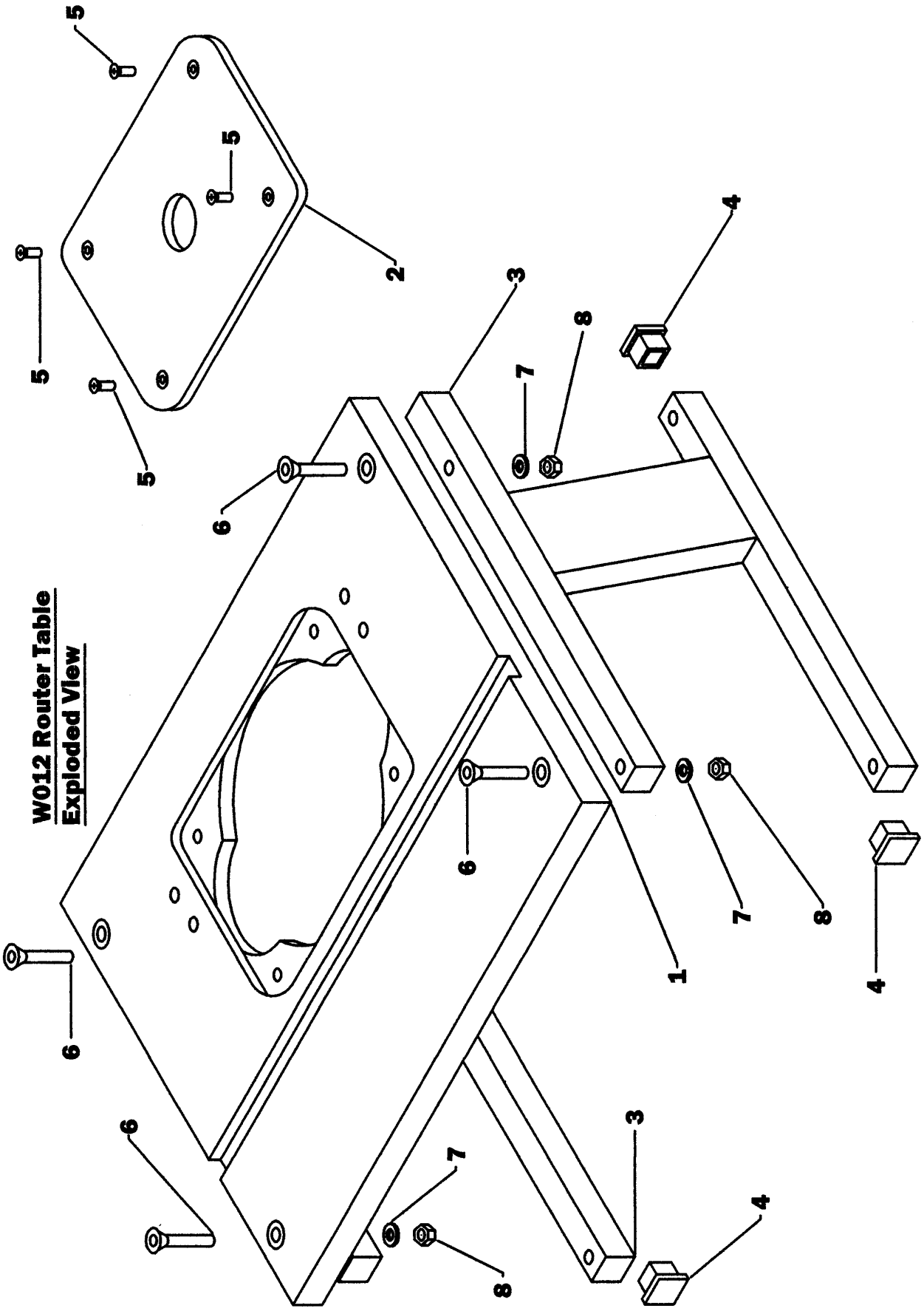
THE GOLDEN RULES;

ALWAYS KEEP HANDS WELL AWAY FROM THE CUTTER

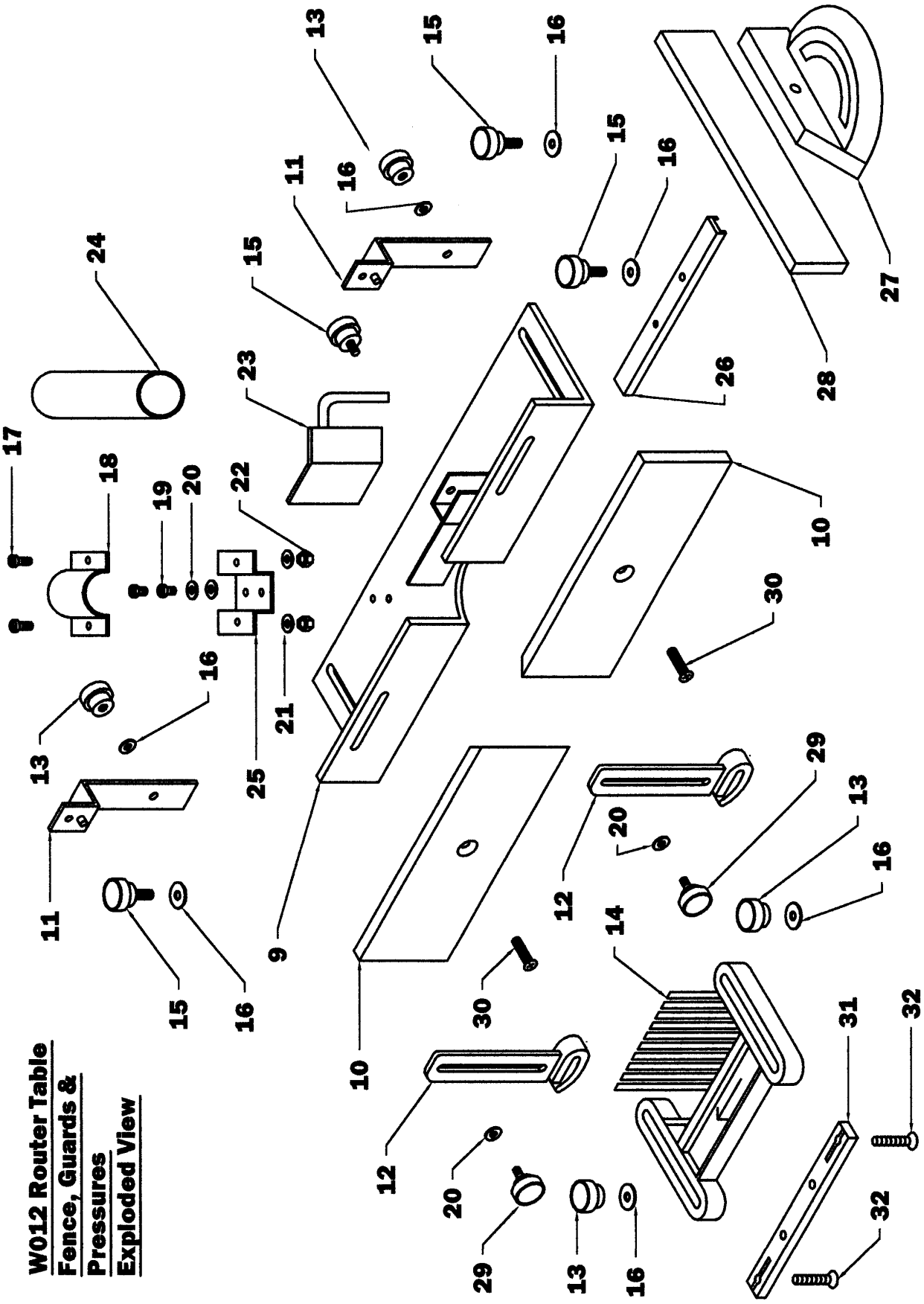
ALWAYS USE A PUSH STICK WITH SMALL WORKPIECES

ALWAYS FEED FROM RIGHT TO LEFT ONLY

W012 Router Table Drawing 1



W012 Router Table Drawing 2



W012 PARTS LIST

Part No.	Description	Qty.
1	TABLE	1
2	INSERT PLATE	1
3	LEG	2
4	RUBBER BUNG	8
5	COUNTERSUNK SCREW M6x16mm	4
6	COUNTERSUNK SCREW M8x55mm	4
7	WASHER M8	4
8	HEX NUT M8	4
9	FENCE BASE	1
10	WOODEN FENCE	2
11	VERTICAL CLAMP SUPPORT	2
12	VERTICAL CLAMP	2
13	WING NUT M6	4
14	FINGER PRESSURE	1
15	KNOB M6x16mm	4
16	WASHER M6 (LARGE)	7
17	ROUND HEAD SCREW M6x12mm	2
18	DUST CHUTE CLAMP	1
19	ROUND HEAD SCREW M5x6mm	2
20	WASHER M5	4
21	WASHER M6 (SMALL)	2
22	HEX NUT M6	2
23	GUARD	1
24	DUST CHUTE	1
25	DUST CHUTE BRACKET	1
26	MITRE GUIDE RAIL	1
27	MITRE GUIDE	1
28	MITRE GUIDE FENCE	1
29	KNOB M5x10mm	2
30	COUNTERSUNK SCREW M6x25mm	2
31	SLOT GUIDE	1
32	NOTCHED SCREW M6x30mm	2
33	PACK OF FIXING SCREWS	
	M4x15mm	3
	M5x15mm	4
	M6x15mm	4

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