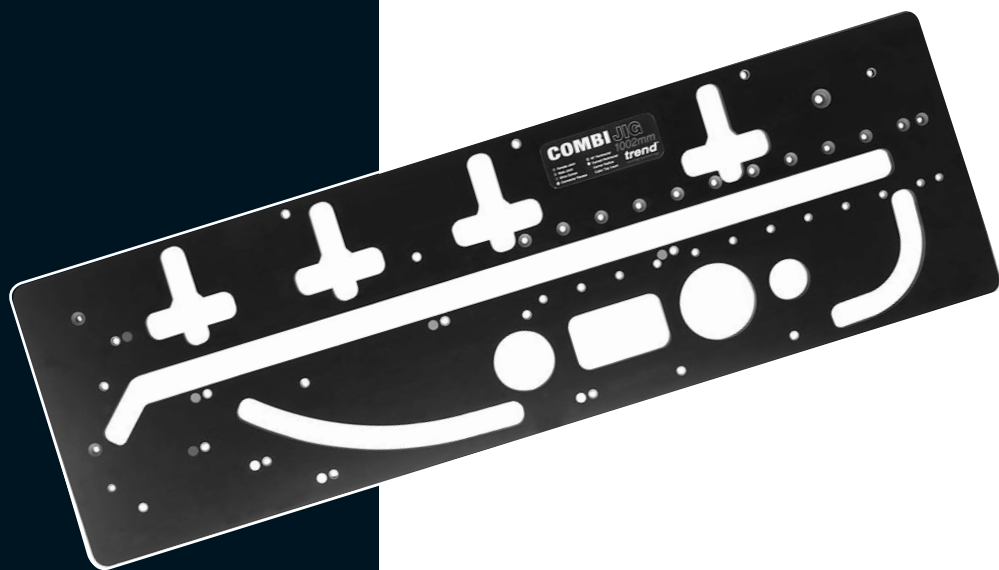




COMBI 1002



trend[®]
routing technology



Please read these instructions before use.

Dear Customer

Thank you for purchasing this Trend product, we hope you enjoy many years of creative and productive use.

Please remember to return your guarantee card within 28 days of purchase.

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TECHNICAL DATA

Jig thickness	16mm
Cutter size	12.7mm
Guide bush size	30mm
Workpiece thickness max.	45mm
Worktop width	min. 450mm
	max. 1000mm
Weight	9.6kg

The following symbols are used throughout this manual:



Denotes risk of personal injury, loss of life or damage to the tool in case of non-observance of the instructions in this manual.



Refer to the instruction manual of your power tool.

This unit must not be put into service until it has been established that the power tool to be connected to this unit is in compliance with 2006/42/EC (identified by the CE marking on the power tool).

INTENDED USE

This jig is intended for use with a plunge router with suitable guide bush and router cutter fitted to rout a kitchen joint in laminate covered particle board.



If you require further safety advice, technical information or spare parts, please call Trend Technical Support or visit www.trend-uk.com

SAFETY**WARNING:**

Observe the safety regulations in the instruction manual of the power tool to be used. Please read the following instructions carefully. Failure to do so could lead to serious injury. When using electric tools, basic safety precautions, including the following should always be followed to reduce the risk of fire, electric shock and personal injury. Also observe any applicable additional safety rules. Read the following safety instructions before attempting to operate this product.

PLEASE KEEP THESE INSTRUCTIONS IN A SAFE PLACE.

The attention of UK users is drawn to The Provision and Use of Work Equipment Regulations 1998, and any subsequent amendments.

Users should also read the HSE/HSC Safe Use of Woodworking Machinery Approved Code of Practice and Guidance Document and any amendments.

Users must be competent with woodworking equipment before using our products.

IMPORTANT NOTE:

Residual Risk. Although the safety instructions and operating manuals for our tools contain extensive instructions on safe working with power tools, every power tool involves a certain residual risk which cannot be completely excluded by safety mechanisms. Power tools must therefore always be operated with caution!

General

1. Disconnect power tool and attachment from power supply when not in use, before servicing, when making adjustments and when changing accessories such as cutters. Ensure switch is in "off" position. Always ensure cutter has stopped rotating.
2. Always mount the power tool, accessory or attachment in conformity with the instructions. Only use attachment and accessories specified in the power tool manual. The tool or attachment should not be modified or used for any application other than that for which it was designed. Do not force tool.
3. Keep children and visitors away. Do not let children or visitors touch the tool, accessory or attachment. Keep children and visitors away from work area. Make the workshop child proof with padlock and master switch.
4. Dress properly. Do not wear loose clothing or jewellery, they can be caught in moving parts. Rubber gloves and non-skid footwear is recommended when working outdoors. Wear protective hair

covering to contain long hair.

5. Consider working environment. Do not use the product in the rain or in a damp environment. Keep work area well lit. Do not use power tools near gasoline or flammable liquids. Keep workshop at a comfortable temperature so your hands are not cold. Connect machines that are used in the open via a residual current device (RCD) with an actuation current of 30 mA maximum. Use only extension cables that are approved for outdoor use.
6. The accessory or attachment must be kept level and stable at all times.
7. Keep work area clean. Cluttered workshops and benches can cause injuries. Ensure there is sufficient room to work safely.
8. Secure idle tools. When not in use, tools should be stored in a dry and high or locked up place, out of reach of children.
9. For best control and safety use both hands on the power tool and attachment. Keep both hands away from cutting area. Always wait for the spindle and cutter to stop rotating before making any adjustments.
10. Always keep guards in place and in good working order.
11. Remove any nails, staples and other metal parts from the workpiece.
12. Maintain tools and cutters with care. Keep cutters sharp and clean for better and safer performance. Do not use damaged cutters. Follow instructions for lubricating and changing accessories. Keep handles dry, clean and free from oil and grease.
13. Maintain accessories. Do not use damaged accessories. Only use accessories recommended by the manufacturer.
14. Check damaged parts. Before operation inspect the attachment, the power tool, the cable, extension cable and the plug carefully for signs of damage. Check for alignment of moving parts, binding, breakage, mounting and any other conditions that may effect its operation. Have any damage repaired by an Authorised Service Agent before using the tool or accessory. Protect tools from impact and shock.
15. Do not use tool if switch does not turn it on or off. Have defective switches replaced by an Authorised Service Agent
16. Don't over reach. Keep proper footing and balance at all times. Do not use awkward or uncomfortable hand positions.
17. Don't abuse the cable. Never carry power tool or accessory by cord or pull it to disconnect from the socket. Keep cord from heat, oil and sharp edges. Always trail the power cord away from the work area.
18. Connect dust extraction equipment. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.
19. Check all fixing and fastening nuts, bolts and screws on power tool, attachment and cutting tools before use to ensure they are tight and secure. Periodically check when machining over long periods.
20. Stay alert. Watch what you are doing. Use common sense. Do not operate tools when you are tired, under the influence of drugs or alcohol.
21. Personal Protective Equipment (PPE) for eye, ear and respiratory protection must be worn. All PPE must meet current UK and EU legislation.
22. Do not leave tools running unattended. Do not leave tool until it comes to a complete stop.
23. Always clamp workpiece being machined securely.
24. Only use cutting tools for woodworking that meet EN847-1/2 safety standards, and any subsequent amendments.
25. Vibration levels. Hand held power tools produce different vibration levels. You should always refer to the specifications and relevant Health & Safety Guide.

Routing Safety

1. Read and understand instructions supplied with power tool, attachment and cutter.
2. Keep hands, hair and clothing clear of the cutter.
3. Remove adjusting keys and spanners. Check to see that keys and adjusting spanners are removed from the router tool, cutter and attachment before turning router on. Make sure cutter can rotate freely.
4. Noise. Take appropriate measures for the protection of hearing if the sound pressure of 85dB(A) is exceeded. Routing sound pressure may exceed 85dB(A), so ear protection must be worn.
5. Eye protection. Always wear eye protection in the form of safety goggles, spectacles or visors to protect the eyes.
6. Respiratory protection. Wear a face or dust mask, or powered respirator. Dust masks/filters should be changed regularly.

7. Do not switch router on with the cutter touching the workpiece. At the end of the cut, release the router plunge and allow spindle to stop rotating. Never use the spindle lock as a brake
8. The direction of routing must always be opposite to the cutter's direction of rotation. Do not back-cut or climb-cut.
9. Check before cutting that there are no obstructions in the path of the router. Ensure there are no obstacles beneath workpiece when cutting full thickness, and that a sacrificial work surface is used.

Router Cutter Safety

1. Cutting tools are sharp. Care should be taken when handling them. Do not drop cutters or knock them against hard objects. Handle very small diameter cutters with extra care. Always return cutter to its packaging after use.
2. Always use cutters with a shank diameter corresponding to the size of the collet installed in your tool.
3. The maximum speed (n.max) marked on the tool, or in instructions or on packaging shall not be exceeded. Where stated the speed range shall be adhered to. Recommended speeds are shown in the Trend Routing Catalogue and/or website.
4. Always use router cutters in a router. Drill and boring bits must not be used in a router. Router cutters must only be used for the material cutting application for which they are designed. Do not use on metal or masonry.
5. Never use cutters with a diameter exceeding the maximum diameter indicated in the technical data of the powertool or attachment used.
6. Before each use check that the cutting tool is sharp and free from damage. Do not use the cutting tool if it is dull, broken or cracked or if in any other damage is noticeable or suspected.
7. Cutters should be kept clean. Resin build up should be removed at regular intervals with Resin Cleaner. The use of a PTFE dry lubricant will reduce resin build up. Do not use PTFE spray on plastic parts.
8. When using stacked tooling (multi-blade, block and groover etc.) on a spindle arbor, ensure that the cutting edges are staggered to each other to reduce the cutting impact.
9. Cutter shanks should be inserted into the collet all the way to the line indicated on the shank. This ensures that at least $\frac{3}{4}$ of the shank length is held in the collet. Ensure clamping

surfaces are cleaned to remove dirt, grease, oil and water.

10. Observe the correct assembly and fitting instructions in the router instruction manual for fitting the collet, nut and cutter.
11. Tool and tool bodies shall be clamped in such a way that they will not become loose during operation. Care shall be taken when mounting cutting tools to ensure that the clamping is by the shank of the cutting tool and that the cutting edges are not in contact with each other or with the clamping elements.
12. It is advisable to periodically check the collet and collet nut. A damaged, worn or distorted collet and nut can cause vibration and shank damage. Do not over-tighten the collet nut
13. Do not take deep cuts in one pass; take several shallow or light passes to reduce the side load applied to the cutter and router. Too deep a cut in one pass can stall the router.
14. In case of excessive vibrations whilst using the router stop immediately and have the eccentricity of the router, router cutter and clamping system checked by competent personnel
15. All fastening screws and nuts should be tightened using the appropriate spanner or key and to the torque value provided by the manufacturer.
16. Extension of the spanner or tightening using hammer blows shall not be permitted.
17. Clamping screws shall be tightened according to instructions provided by the manufacture. Where instructions are not provided, clamping screws shall be tightened in sequence from the centre outwards.

Using Routers In A Fixed Position

1. Attention should be made to the HSE's Safe Use of Vertical Spindle Moulding Machines Information Sheet No.18 and any revisions.
2. After work, release the router plunge to protect the cutter.
3. Always use a push-stick or push-block when making any cut less than 300mm in length or when feeding the last 300mm of the cut.
4. The opening around the cutter should be reduced to a minimum using suitably sized insert rings in the table and closing the back fence cheeks or fitting a false fence on the back fence.
5. Whenever possible use a work holding device or jig to secure component being machined. Ensure any attachment is securely fitted to the workbench, with table surface at

approximately hip height.

6. Use a No-Volt Release Switch. Ensure it is fixed securely, easily accessible and used correctly.
7. In router table (inverted) mode, stand to the front right of the table. The cutter will rotate anti-clockwise when viewed from top so the feed direction is from the right (against the rotation of the cutter). In overhead mode, stand to the front left of the machine table and the feed direction is from the left.
8. Do not reach underneath table or put your hands or fingers at any time in the cutting path while tool is connected to a power supply.
9. Never thickness timber between the back of the cutter and the backfence.

Useful Advice When Routing

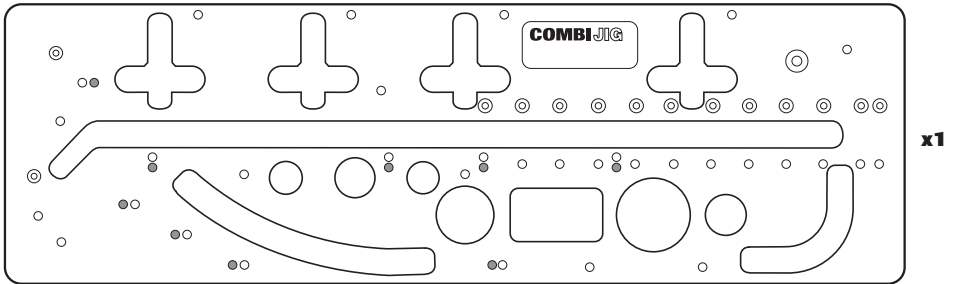
1. Judge your feed rate by the sound of the motor. Feed the router at a constant feed rate. Too slow a feed rate will result in burning.
2. Trial cuts should be made on waste material before starting any project.
3. When using some attachments e.g. a router table or dovetail jig, a fine height adjuster is recommended.
4. When using a template guide bush, ensure there is sufficient clearance between cutter tip and inside edge of bush and that it cannot come into contact with collet and nut. Ensure cutter and guide bush are concentric.

Router Cutter Repair/Maintenance

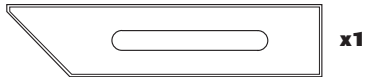
1. Repair of tools is only allowed in accordance with the manufacturers instructions.
2. The design of composite (tipped) tools shall not be changed in process of repair. Composite tools shall be repaired by a competent person i.e. a person of training and experience, who has knowledge of the design requirements and understands the levels of safety to be achieved.
3. Repair shall therefore include, e.g. the use of spare parts which are in accordance with the specification of the original parts provided by the manufacturer.
4. Tolerances which ensure correct clamping shall be maintained.
5. Care shall be taken that regrinding of the cutting edge will not cause weakening of the body and the connection of the cutting edge to the body.

Version 7.2 06/2013

ITEMS ENCLOSED



x3



x1



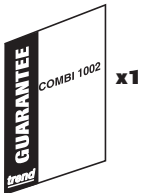
x1



x1



x1



x1

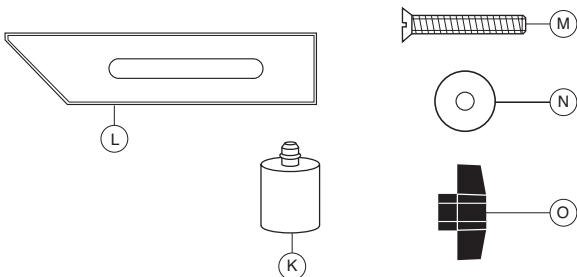
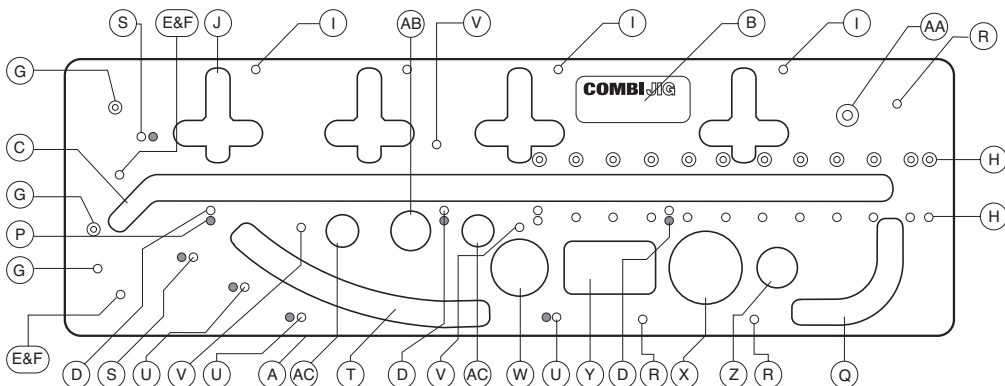


x1

ITEMS REQUIRED

- 1/2" plunge router.
- 30mm guide bush.
- 12.7 diameter x 50mm cut router cutter with 1/2" shank.
- Trestle x 2.
- 100mm throat clamp x 2.
- Hand tools.
- Panel connector bolts.
- Wooden biscuits size No.20.
- Sealant.

**DESCRIPTION
OF PARTS**



- | | | |
|---------------------------------------|------------------------------------------|-----------------------------------------------------------|
| (A) Jig body | (Q) Corner radius slot | (AA) Guide Bush / Cutter Checker |
| (B) Label | (R) Corner radius bush location hole | (AB) 35mm Hole for 3/4 BSP mixer tap |
| (C) Postform joint slot | (S) 22.5° Mitre joint bush location hole | (AC) 25mm Hole for bridge (bed) mixer tap at 180mm centre |
| (D) Female joint bush location hole | (T) Curved peninsular slot | |
| (E) Length setting stop location hole | (U) Curved peninsular bush location hole | |
| (F) Male joint bush location hole | (V) 45° End end cut bush location hole | |
| (G) Accessary bolt on clamp holes | (W) Cable tidy 60mmØ | |
| (H) Length stop fixing holes | (X) Cable tidy 80mmØ | |
| (I) Bolt recess bush location hole | (Y) Cable tidy rectangle | |
| (J) Connecting bolt recess slot | (Z) 35mm circular hinge recess | |
| (K) Alloy location bush | | |
| (L) Length setting stop | | |
| (M) Length setting stop bolt | | |
| (N) Length setting stop washer | | |
| (O) Length setting stop knob | | |
| (P) Colour dot locations | | |

ACCESSORIES

Please use only Trend original accessories.

Recommended Cutters

A 12.7mm ($\frac{1}{2}$ ") diameter cutter must be used, which has a 50mm cutting reach and plunge cut facility. Router must be plunged in stages of maximum 8mm in one pass.

Ref. 3/83X1/2TC, 3/83DX1/2TC, TR17X1/2TC, TR17DX1/2TC, C153X1/2TC, C153DX1/2TC



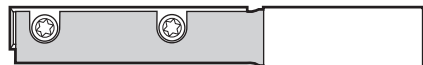
Ref. RT/11X1/2TC



Description
RT/11 Spare blades

Order Ref.
RB/A (1 off)
RB/A/10 (10 off)

Ref. RT/13X1/2TC



Description
RT/13 Spare blades

Order Ref.
RB/H (1 off)
RB/H/10 (10 off)

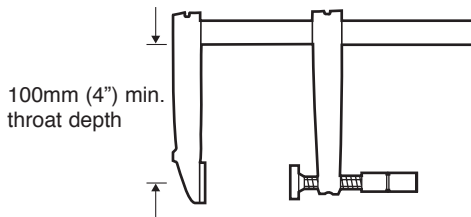
Clamps

Ref. FC/200

Two heavy duty quick action or gripper clamps are required to secure the jig to the worktop.



Two heavy duty quick action or gripper clamps with throats of at least 100mm (4") are required to secure the jig to the worktop. Whenever fast action clamps are used, ensure they do not foul the router path and that they are securely tightened.



Sub-base Sets

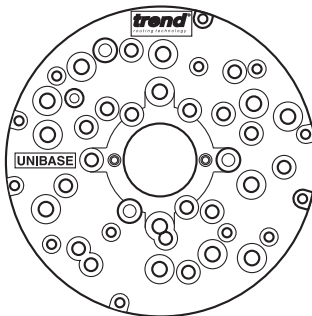
Ref. UNIBASE

To obtain a perfect accurate close fitting joint, a 30mm guide bush must be used. The guide bush must always be fitted concentric with the cutter. This can be achieved using Trend sub-bases and 30mm outside diameter guide bush ref. GB30.

Trend sub-bases have a central recess to allow fitting of the Trend guide bush to most makes of routers and are available ready to fit the most popular makes.

Two types are offered GB/5 and UNIBASE.

All sub-bases contain screws, a line up bush and pin. The line up pin and bush ensure exact alignment of sub-base with router spindle, when fitted with the relevant collet.



Fits following router models

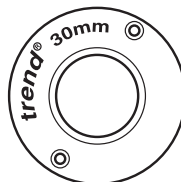
Atlas Copco OFSE2000 **Bosch** GOF 1300ACE, 1600A, 1700ACE **Casals** FT2000VCE **DeWalt** DW625EK, 629 **Draper** R1900V **Elu** MOF 31, 77, 98, 131, 177(E) **Felisatti** TP246(E), R346EC **Festo** OF2000E **Freud** FT2000E **Hitachi** M12V, M12SA, TR12 **Makita** 3612BR, 3612(C) **Metabo** OF1612, OFE1812 **Performance Pro** CLM1250R >11/2003, CLM2050R **Ryobi** RE600N, R600N, RE601, R500, R502 **Skil** 1875U1 **T-TECH** TT/R127 **Wadkin** R500

General instructions for fitting Sub-bases to Router

1. Fit line up guide bush onto sub-base, with screws supplied.
2. Fit 12.7mm (1/2") shank line up pin into collet of router. Plunge router until pin projects through base and lock plunge.
3. Locate guide bush and sub-base assembly over protruding pin.
4. Line up fixing holes and fit screws.
5. Now tighten up screws.
6. Remove line up bush and line up pin. Alignment should now be correct. Fit 30mm guide bush and cutter.
7. Periodically check the sub-base is concentric to the spindle of the router.

30mm Guide Bush

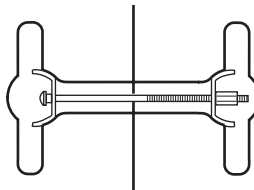
Ref. GB30



Panel Connector Bolts

- Ref. PC/10/M (Pack of 10)
- Ref. PC/50/M (Pack of 50)
- Ref. PC/100/M (Pack of 100)
- Ref. PC/1000/M (Pack of 1000)

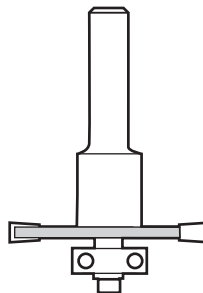
Panel butt connectors are essential for connecting worktops. They fit into the recess on the underside of the worktop and are tightened with a 10mm spanner. The jig has integral bolt recess slots to allow the bolt recess to be cut in the underside of the worktop, using the standard router cutter. The recess is elongated to allow easy access for the spanner.



Biscuit Jointer for the Router

- Ref. 342X1/2TC
- Ref. TR35X1/2TC
- Ref. C152X1/2TC

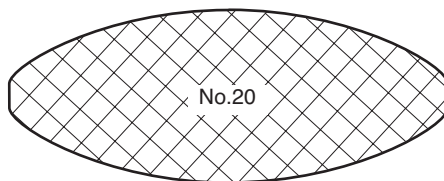
Worktops with inadequate support below them need additional stability by biscuit jointing the edges. The biscuit jointing set for the router together with the No.20 biscuits will ensure worktops do not sag or warp in time.



Flat Biscuit Dowels

- Ref. BSC/20/100 (Pack of 100 biscuits)
- Ref. BSC/20/1000 (Pack of 1000 biscuits)

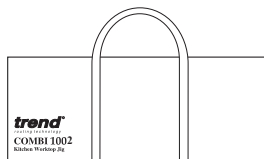
Biscuits are used to strengthen the joint. When used with PVA glue they expand ensuring a tight joint.



Carry Case

- Ref. CASE/1001

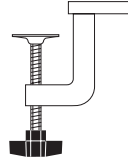
Hard wearing carry case for protection. Allows easier transportation of the COMBI1002.



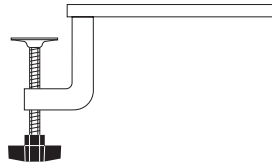
Bolt-on Clamps

Optional bolt-on clamps which fit directly onto COMBI1002. Fixing Bolt Kits are required for the clamps (1 off for PJ/CL/S and 2 off for PJ/CL/L).

Ref. PJ/CL/S
Short Clamp for COMBI1002
(1 off required)



Ref. PJ/CL/L
Long Clamp for COMBI1002
(1 off required)



Ref. PJ/FBK
Fixing Bolt Kit for bolt-on clamps
(3 off required)



ASSEMBLY

Location Bush Identification

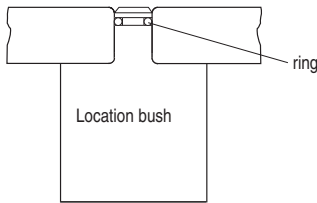
Three location bushes are used in different holes in the jig to align the correct template aperture for the application.

The holes are colour coded for easy identification with dots as follows:

- Green dot** – Female Joint
- Red dot** – Male Joint
- Blue dot** – Mitre Corner
- Yellow dot** – Connector Recess
- Grey dot** – 45° Peninsular
- White dot** – Curved Peninsular
- Black dot** – Corner Radius

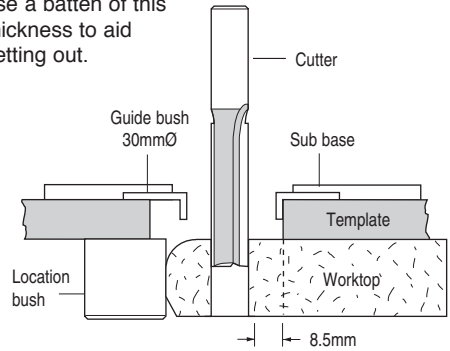
The jig has a colour coded key on its label for quick reference.

Location bushes are held in position by 'O' rings. Insert the smallest end of the bush into the hole by lightly pushing and turning at the same time. If the bushes are tight use a lubricant on the 'O' ring. Ensure bushes are fully home before use. When using jig ensure location bushes do not foul workbench.



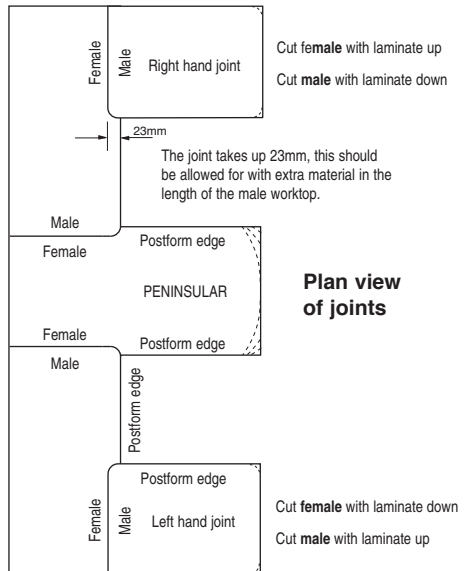
Margin Distance

Allow 8.5mm when cutting joints. Measure or use a batten of this thickness to aid setting out.



Setting Out the Joints

When cutting a joint ensure location bushes contact the postformed edge of the worktop. For certain joints the worktop will need to be inverted so that all cuts are made into the postformed edge, never out through it. When routing worktop the balancing paper on the underside may feather edge – this feather edge should be removed with abrasive paper.



In order to prevent breakout of the laminate, rotation of the cutter and feed direction must always be into the postform edge of the worktop.

OPERATION



Setting the Length Stop for the Female Cut

Carry out the setting operation first:

- Fit bushes into **Green** dot location holes and offer the jig to the male worktop as shown. Face marked **Green** dot must be uppermost.
- Insert location bush in **Red** dot location hole as shown, and position the jig across the width of the male worktop. Loosely fit the length stop (or adjustable long clamp).
- Fasten length stop (or adjustable long clamp) to template so that it traps the template across the worktop between the **Red** dot location bush and the stop (or adjustable long clamp). Tighten up the knob.
- Remove the bush from **Red** dot location hole. The template is now set to cut the correct length of joint for the female cut.
- Some carcasses may have their backs reduced which means in turn the worktop width will be reduced. Please take this into consideration when setting the length stop.

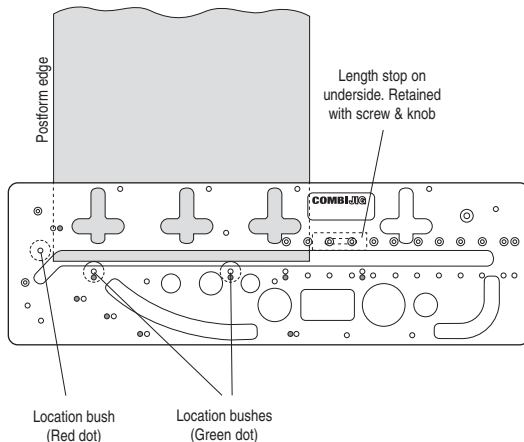


Set the length stop using the worktop width for the male cut, as this may be different to the female worktop width.

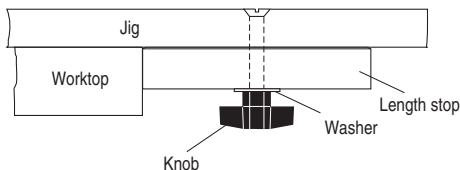


Ensure worktop is held secured to trestles. Ensure jig is clamped securely to worktop and placed at a comfortable work height.

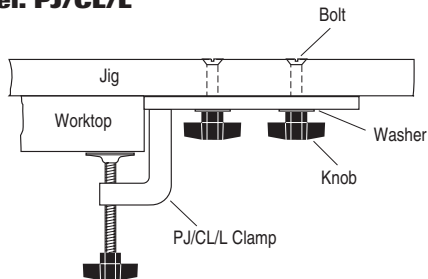
Setting the Length Stop



Length Stop Arrangement



Using Adjustable Clamp Accessory Ref. PJ/CL/L



Female Joint



- Leave the two location bushes in holes marked **Green dot**. (The **Green dots** must be uppermost). Leave the length stop bush in position.
- Place the template onto the worktop to be cut, ensuring the location bushes are touching the worktop. Now clamp securely in position using two quick action clamps or the accessory clamps ensuring they will not foul the router path.
- Set cutter depth.
- Plunge router and cut joint in a series of passes, feeding left to right. At the end of each cut release plunge.

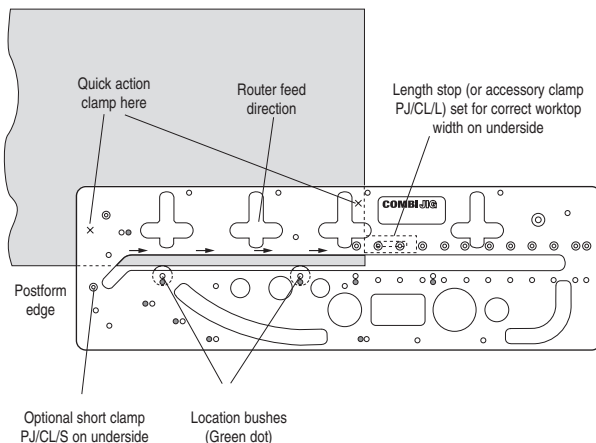


When cutting a joint, hold the router guide bush hard against the template and cut from left to right. It is recommended that the depth stops of the router are used to set the depths of cut. Several shallow passes of the router should be made and it is not necessary to lean heavily on the router or the jig. Allow the weight of the router to rest on the part of the template which is resting on the worktop. Ensure router remains parallel and upright at all times.



Ensure worktop position is comfortable. Keep proper footing at all times.

Routing the Female Part of the Joint



Male Joint 

Depending on accessibility lay female worktop into position on units. Lay male worktop on top and support other end. Using a pencil draw round the female cut onto the male. If inaccessible lay female onto male. Depending on a right or left hand joint, the pencil line may need to be transferred on to the other side. Due to the difference between the cutter and the guide bush diameters, the cutter path (or cut line) will be 8.5mm over from the edge of the template, therefore either measure 8.5mm or use a packing piece of this size to offset the template by this amount to ensure the cutter cuts along the pencil line.

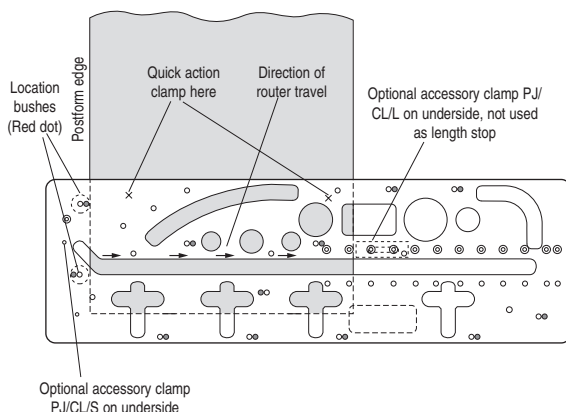
The postformed edge of the worktop must always be in contact with the location bushes, this means that to cut a male right hand joint, the worktop must be inverted. Remembering to cut into the postformed edge.

- Insert two location bushes into holes marked **Red dot**. Face marked **Red dot** must be uppermost.
- Remove the length stop (or adjustable long clamp) from the female and fit to the male side of template. Place template across the width of the worktop and tighten the knob. Now clamp securely to worktop.
- Cut the male joint before finally cutting the worktop to length. All cuts must be fed left to right. At the end of each cut release plunge.

*** Please Note:**

Out-of-square joints are possible, but the finished joint will not be as good as a 90° joint.

Routing the Male Part of the Joint 



Out-of-square Joints (max. 3°)* 

It may not be possible to position all joints at 90°, in this case it is the male part of the joint that has to be adjusted.

The length stop has a mitred end which is used to set up for an out-of-square joint up to 3°.

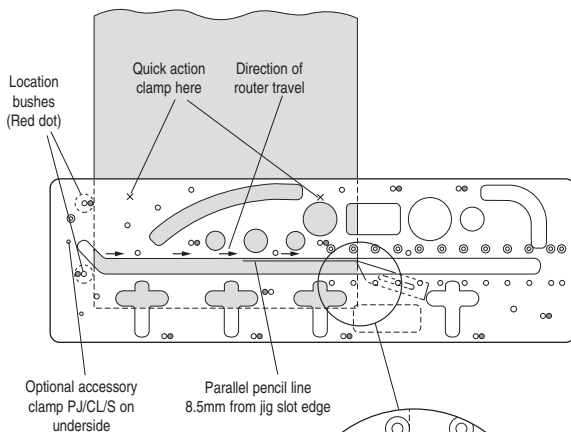
To mark out an out-of-square joint, first lay the female worktop on the cupboard carcass in its correct position. Next lay the male section of the worktop on the carcass and on top of the female section of the worktop. Support the other end of the male worktop. Using a pencil and from underneath the worktop mark around the female joint onto the male section of the worktop, if access is difficult lay the female worktop onto the male worktop, support other end and mark with pencil from above. This drawn line is the male joint cut line.



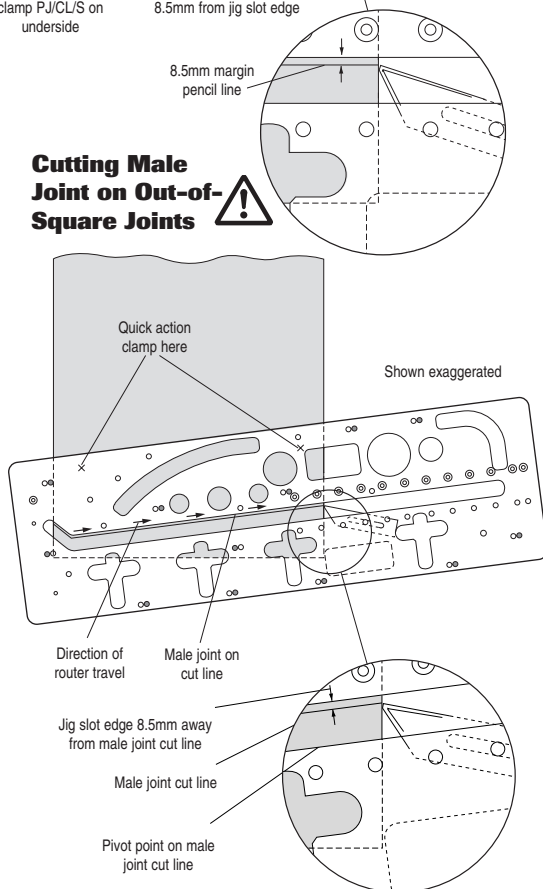
Test fit the joints together, abrasive paper may be required to clean up the chipboard core.

- Insert both location bushes into **Red dot** holes. **Red dot** face uppermost.
- Lay jig across the worktop, ensure the location bushes touch the postform edge. Clamp jig in position with quick action clamps. Draw a line 8.5mm away from the jig slot edge.
- With the mitred end of the length stop facing towards the back of the worktop, as shown. Fit the length stop onto underside of jig by using the countersunk bolt, washer and knob into one of the holes in the jig. The bolt should be put into the jig from above, do not tighten. Carefully position the point of the length stop so that it lines up with the 8.5mm margin pencil line. When the correct position has been obtained tighten bolt and knob sufficiently to prevent length stop from moving.
- Remove location bushes.
- Lay jig with length stop set onto male work top that is to be cut. Allowing for the 8.5mm margin and using the length stop as a pivot point (pivot point on cut line) position the jig so the jig slot edge is parallel to the drawn pencil line. Re-check positioning.
- Clamp jig to worktop securely using quick action clamps.
- Remove length stop and bolt assembly as these are for setting up only and are not required when routing
- Set cutter depth.
- Plunge router and cut the male joint, feeding left to right in a series of shallow passes, feeding left to right.

Setting Up Length Stop for Out-of-Square Joints 



Cutting Male Joint on Out-of-Square Joints 



After setting for out-of-square joint the length stop must be removed or it could come in contact with the router cutter.

Cutting the Bolt Recesses

When the joint has been tested, proceed as follows to cut the recess for panel butt connectors on the underside of the worktop. The same cutter and guide bush are retained and used with the integral bolt recess slots in the jig to produce the recesses for the panel butt connectors.

To set the length stop (or adjustable clamp) for both joint recesses, insert a location bush in **Blue** dot location hole as shown in diagram and lay template across the width of the worktop. The diagram shows for bolt recess in the male joint, **Yellow** dot holes up. Fit length stop or adjustable clamp as before. Ensure that the stops are against the rear of the worktop and not against the postform edge. Remove setting bush, and place template on the underside of the worktop.

Insert the location bushes into the **Yellow** dot holes as shown.

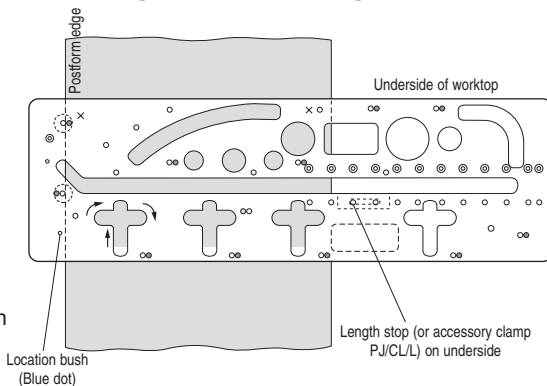
- The template will need to be inverted when cutting some bolt recesses. The jig has three recesses at 200mm centres and a fourth at 300mm centre, this allows three bolts in 600mm wide worktops.
- Securely clamp jig to worktop.
- The bolt recesses should be approximately 20mm deep although this will depend upon the thickness of worktop. Set the cutter depth.
- Repeat the set up procedure for the female joint, however the location bush and length stop (or adjustable clamp) should be fitted on the opposite face of the worktop **Yellow** dot holes down.

Worktop Thickness	Depth Recess
30	22mm
40	28mm

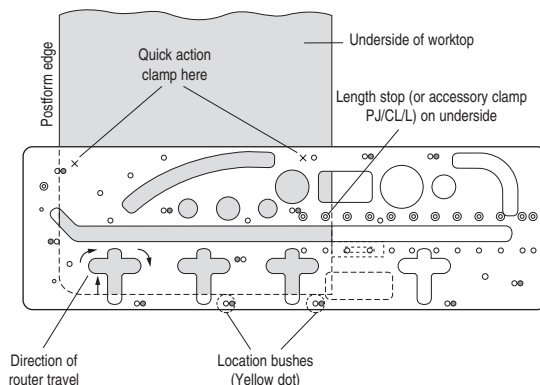


Best results are achieved when the centre line of the bolt corresponds to the centre line of the worktop. Clamp jig securely to worktop.

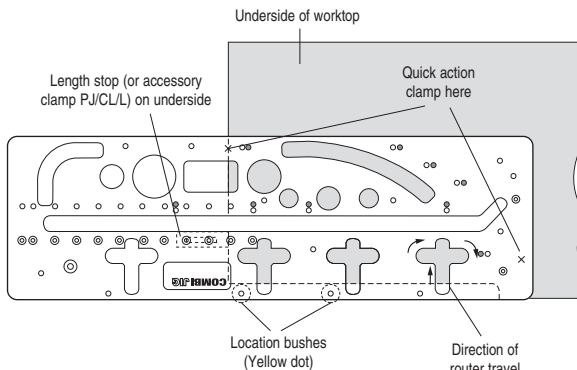
Setting Bolt Recess Length Stop



Routing the Bolt Recess in the Male Part of the Joint



Routing the Bolt Recess in the Female Part of the joint



Strengthening the Joint

If the joint between the worktops is not supported underneath, after some time the joint may 'sag' and become misaligned; to reduce this the joint should be reinforced with a loose tongue or biscuit dowels. The biscuit jointing cutter set Trend Ref. 342 can be used with a portable router. The size of biscuit used should be No. 20.

Ref. BSC/20/100 (100 biscuits)

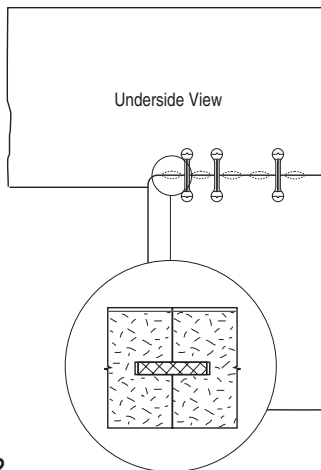
Ref. BSC/20/1000 (1000 biscuits)

A 650mm worktop should have at least 5 biscuits.

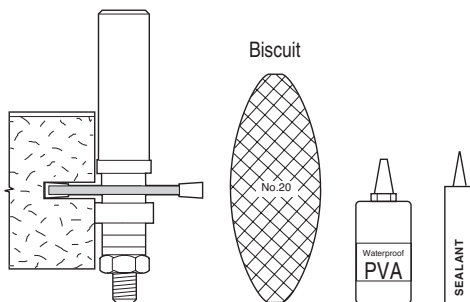
Sealing the Joint

The cut edges of the joint should be coated with a water-resistant adhesive, or sealant before assembly, to prevent moisture seeping into the core of the worktops, which would swell, and disfigure the worktop.

Use a fine grit abrasive paper to clean up the torn wood chips of both mating surfaces. Lightly run the abrasive paper along the edges to de-nib the cut chipboard edge. This will ensure a tidy joint is achieved.



Cutter Ref. 342



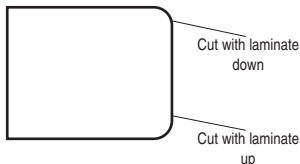
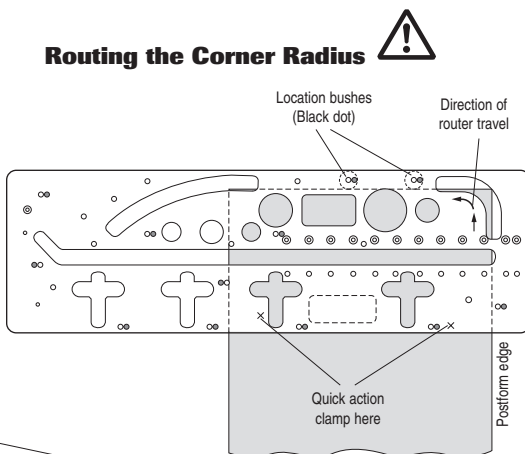
Corner Radius 

Special Note: Due to the nature of this particular edge laminate, the corner radius will be more awkward to laminate.

Insert the three location bushes in holes marked **Black** dot as shown opposite. Locate the template on the worktop as illustrated ensuring the location bushes are touching the worktop edge. Clamp into position with quick action clamps.

When cutting the radius hold the router guide bush against the template radius. Feed left to right.

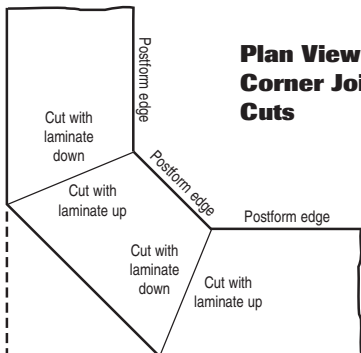
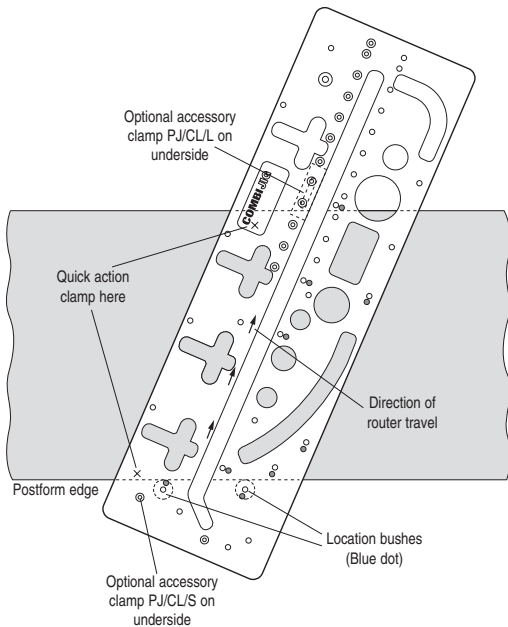
It is recommended that the router depth stops are used and three or four cuts are taken.



22.5° Mitre Joint 

- For the left hand part of the 22.5 mitre joint fit bushes into holes marked with a **Blue** dot. The **Blue** dot will be uppermost.
- Clamp jig using quick action clamps or accessory clamps.
- When cutting keep guide bush against edge of template. Feed left to right into the postform edge.
- For opposing joint keep bushes in the same side.
- Repeat above operations for remainder of joint.

Routing the Mitre Corner Joint 



Plan View of Corner Joint Cuts

Curved Peninsular 

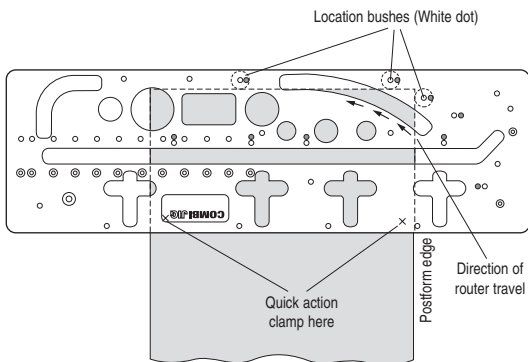
Insert the three location bushes in holes marked **White** dot as shown below.

Locate the template on the worktop as illustrated ensuring that location bushes are touching the worktop edge. Clamp into position with quick action clamps.

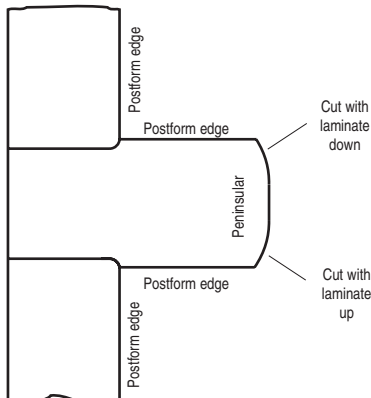
When cutting the curved peninsular, hold the router guide bush against the edge of the template. Cut from left to right.

It is recommended that depth stops are used and at least three or four cuts taken. White discs must be uppermost when routing.

Routing the Curved Peninsular 



Peninsular End Cuts



In order to prevent break out of the laminate, rotation of the cutter and feed direction of the router must always be into the postform edge of worktop.

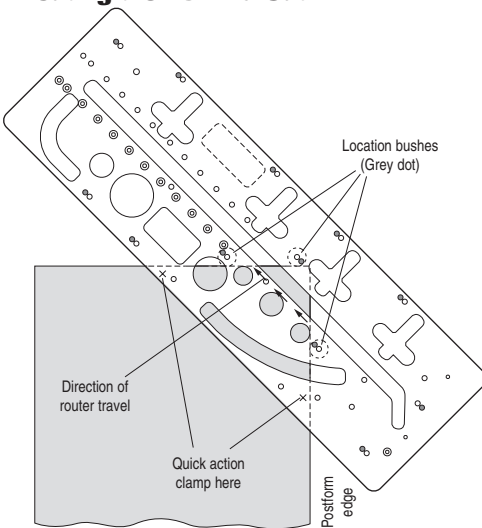
45° End Cut 

Insert the three location bushes into holes marked **Grey dot** as shown below.

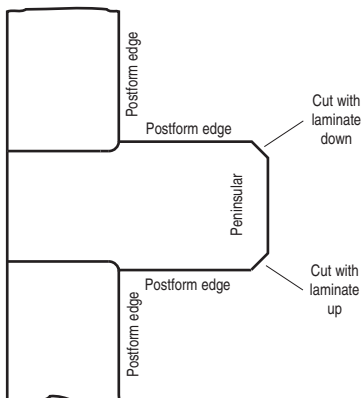
Locate the template on the worktop as illustrated ensuring that bushes are touching the worktop edge. Clamp using two quick action clamps.

It is recommended that depth stops are used and three or four cuts taken. Cut from left to right. **Grey dot** must be uppermost when routing.

Routing the 45° End Cut 



Peninsular End Cuts

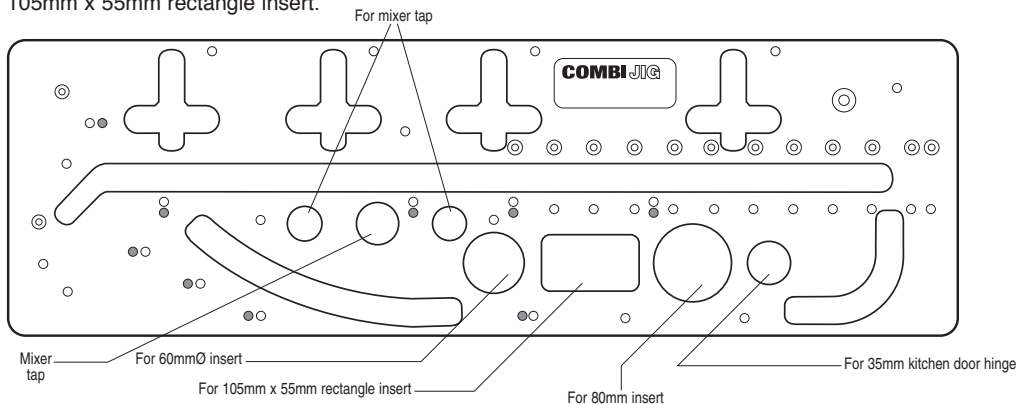


In order to prevent break out of the laminate, rotation of the cutter and feed direction of the router must always be into the postform edge of worktop.

Cable Tidy Inserts & 35mm Circular Hinge



The cable tidy Insert template is for use with three sizes of plastic inserts, 60mm diameter and 80mm diameter round inserts and a 105mm x 55mm rectangle insert.



Cable Tidy Inserts



- Ensure machine is isolated from power supply before making any adjustments.
- Fit a 30mm template guide bush onto the router base. Fit a 12.7mm (1/2") diameter straight router cutter into the collet assembly.
- Set depth of cut on router, maximum cut in one pass should be about 8mm.
- Position template onto the required position on the workpiece. Using two clamps securely clamp the template to the workpiece ensuring the clamps will not foul the path of the router.
- Place guide bush into required hole in template, switch on router and plunge cut into the workpiece, rout in a clockwise direction. Repeat operation at progressive depths until hole is cut. Due to build-up of wood waste it is advisable to clean out the routed trench every so often.
- Once the hole is routed, unclamp the template and fit the plastic insert.

35mm Circular Hinge



- The template can also be used to rout 35mm diameter blind holes for 35mm circular concealed hinges for kitchen and cabinet doors.
- Set-up procedure is the same as plastic inserts, except the final depth of cut is 11mm, and the centre of the blind hole must be routed flat.

Accessory Cable Tidy Insert Chart			
Insert	Colour	Ref. (3 pack)	Application
	light grey brown black	CTI/60/PK1 CTI/60/PK2 CTI/60/PK3	
	light grey black	CTI/80/PK1 CTI/80/PK3	
	grey brown black	CTI/105/PK1 CTI/105/PK2 CTI/105/PK3	

Cutter/Guide Bush Concentricity Checker

- Isolate power to the router.
- Place jig on a support with the cutter/guide bush concentricity checker counterbore side uppermost.
- Place the router with 30mm guide bush and 12.7mm diameter router cutter fitted, into the counterbored hole.
- Slowly plunge the router down until the cutter enters the smaller hole, if the cutter does not enter the hole it is not concentric to the guide bush.
- If the cutter is not concentric either re-set Ref. UNIBASE if fitted (as it may have moved) or fit a Ref. UNIBASE to ensure guide bush and cutter are concentric.
- If the guide bush is too loose in the 30mm diameter recess the incorrect bush has been fitted.
- If the cutter is not a good fit to the 12.7mm hole the cutter diameter may be incorrect.

Routing Mixer Tap Hole



Please check hole sizes are suitable for mixer tap.

- Ensure machine is isolated from power supply before making any adjustments.
- Fit a 30mm template guide bush into the router base. Fit a 12.7mm (1/2") diameter straight router cutter into the collet assembly.
- Set depth of cut on router, maximum cut in one pass should be about 8mm.
- Position template onto the required position on the workpiece. Using two clamps securely clamp the template to the workpiece ensuring the clamps will not foul the path of the router.
- Place guide bush onto required hole in template, switch on router and plunge into the workpiece, rout in a clockwise direction. Repeat operation at progressive depths until hole is cut.
- Once the hole is routed, unclamp the template and fit the mixer tap.

Routing 3/4" BSP Hole



Please check hole size is suitable for mixer tap.

- Mark position of hole for tap in worktop.
- Place jig in position so that hole in jig is over hole position.
- Secure the depth of cut for 8-10mm and plunge cut. Repeat at different depths until hole is routed.

After use, store jig carefully.

MAINTENANCE

Please use only Trend original spare parts and accessories.

The jig has been designed to operate over a long period of time with a minimum of maintenance. Continual satisfactory operation depends upon proper tool care and regular cleaning.

Cleaning

- Regularly clean the jig with a soft cloth.

Lubrication

- Your jig requires no additional lubrication.

Storage

- This jig should be stored in its packaging after use, or it can be hung on wall brackets.
- An accessory carry case is also available. Ref. CASE/1001.

ENVIRONMENTAL PROTECTION



Recycle raw materials instead of disposing as waste.

Packaging should be sorted for environmental-friendly recycling.

The product and its accessories at the end of their life should be sorted for environmental friendly recycling.

GUARANTEE

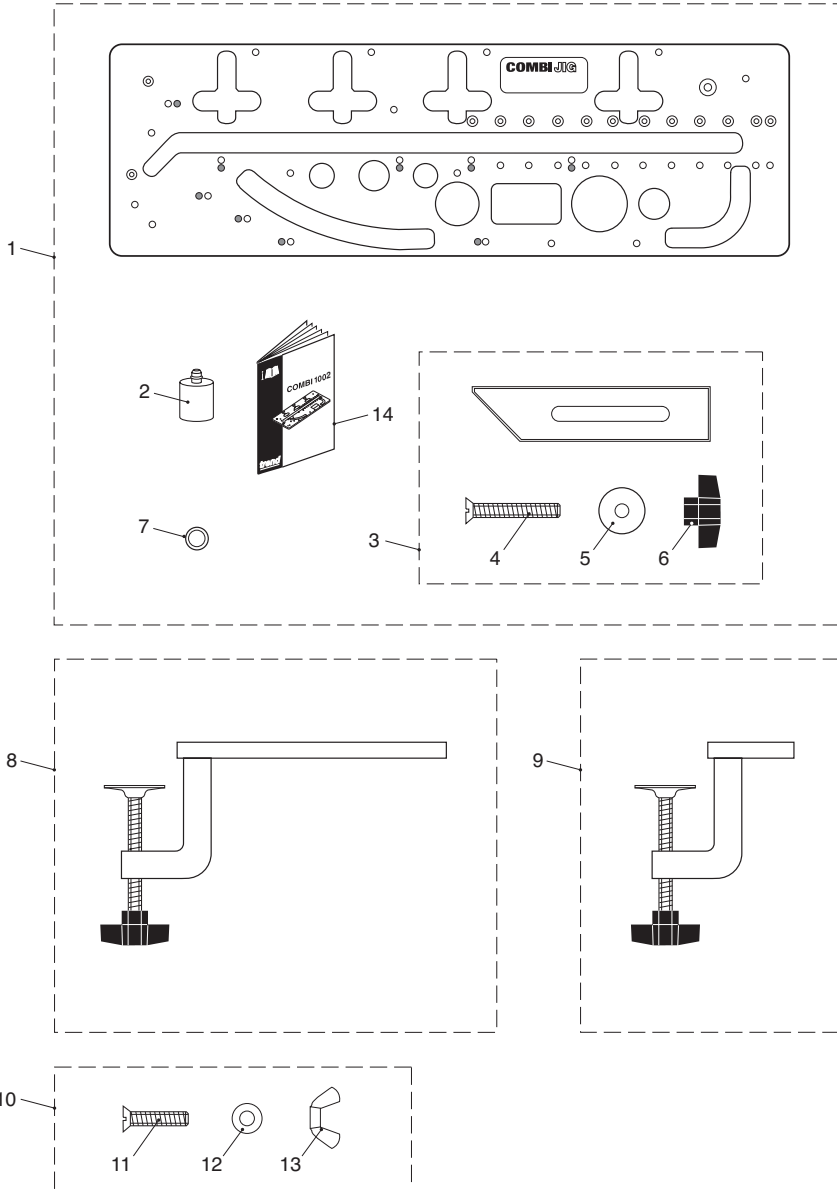
The jig carries a manufacturers guarantee in accordance with the conditions on the enclosed guarantee card.

Please use only Trend original spare parts.

COMBI 1002 - SPARE PARTS LIST			v1.0 05/2003
No.	Qty.	Desc.	Ref.
1	1	Combi 1002 Jig	COMBI/1002
2	3	Alloy Bush	CJ/BUSH
3	1	Length Setting Stop	CJ/LSK
4	0	Machine Screw Csk M8 x 50mm Slot	WP-SCW/41
5	0	Washer 8.5mm x 32mm x 1.0mm	WP-WASH/17
6	0	Knob M8	WP-KNOB/10
7	0	Combi Jig 'O' Ring Set for Bushes (Pack of 5)	CJ/ORS
8	1	Long Clamp	PJ/CL/L
9	1	Short Clamp	PJ/CL/S
10	1	Fixing Bolt Kit	PJ/FBK
11	0	Machine Screw Csk M8 x 35mm Slot	WP-SCW/40
12	0	Washer	WP-WASH/17
13	0	Wing Nut M8	WP-NUT/13
14	1	Manual	MANU/1002

COMBI 1002 - SPARE PARTS DIAGRAM

v1.0 04/2003



TROUBLE SHOOTING

Fault	Cause	Remedy
■ Joint does not fit correctly at the radius.	Cutter or guide bush is the incorrect diameter or location bushes are not against worktop edge.	Check concentricity of cutter with guide bush. Cutter 12.7mm diameter with 30mm diameter guide bush. Ensure location bushes touch worktop.
■ The back edge of the joint does not line up.	Either the length stop or template was in the incorrect position, or the worktop has not pushed up against the length stop when the joint was cut.	Check position of length stop and re-cut joints.
■ When clamped together the joint has irregular gaps.	The guide bush has drifted away from the edge of the template whilst cutting either part of the joint, or wood chips in particle board have torn slightly.	Check with a straight edge which part of the joint is uneven and re-cut (this can only be done on the male cut) ensuring that the guide bush is kept against the template by machining from left to right. Use abrasive paper to remove torn wood chips.
■ Chipped laminate	Can be caused by a blunt cutter or removing too much material at one pass or exiting out of postform edge.	Always use sharp cutters and when cutting through the laminate cut 3–4mm of material. Maintain correct feed direction, to ensure cutter enters postform edge.
■ Jig slipping on material	Clamps not secure or too deep a cut being made or cutter is blunt.	Check clamps for wear. Clamp securely, take shallow passes, use a sharp cutter.
■ Cut joints not square	Router has tilted or operator has leaned heavily on router causing jig flex.	Ensure jig is supported and do not push hard on router taking shallow passes. Ensure weight of router is on supported part of jig and that the router is upright.
■ Assembled joint not flush or bowed	Worktop different thickness or worktop not flat (cupped).	Ensure worktop is same thickness and flat.

MANU/1002 v5.0



RECYCLABLE

Trend Machinery & Cutting Tools Ltd.
Odhams Trading Estate St Albans Road
Watford WD24 7TR England
Tel: 0044(0)1923 249911
technical@trendm.co.uk
www.trend-uk.com