

COMBI 1001



trend[®]
routing technology

Dear Customer

Thank you for purchasing this Trend product.

The Combi 1001 is designed to be used with most heavy duty routers. The router should be fitted with a 30mm outside diameter guide bush and a 12.7mm (1/2") diameter Tungsten Carbide Tipped (TCT) cutter which should have plunge cut facility.

Once the jig has been mastered a typical postform or butt and scribe joint can be made in 15 minutes including setting-up time.

Recommended maximum depth of cut is 8mm in one pass.

The jig is designed to cut worktop widths from 450mm to 1000mm. It will also cut a curved peninsular, a 45° end cut, a corner radius and a 22.5° mitre joint.

If after reading these instructions you have any problems please contact our Technical Support Department. For accessories and a copy of the latest Trend Routing Catalogue please contact your nearest Trend stockist.

We hope you enjoy many years of productive use of this product.

Please remember to return your guarantee card within 14 days of purchase.



Please read the operating instructions carefully and keep them together with your jig.

CONTENTS

| | |
|----------------------------------|------------|
| ITEMS ENCLOSED | 2 |
| SAFETY PRECAUTIONS | 3 |
| – Cutter Care | 3 |
| – Useful Advice | 3 |
| ACCESSORIES | 4 |
| – Recommended Cutters | 4 |
| – Sub-base Sets | 4-5 |
| – Panel Butt Connectors | 6 |
| – Biscuit Jointer for the Router | 6 |
| – Gripper Clamp | 6 |
| – Bolt-on Clamps | 7 |
| – Carry Case | 7 |
| ASSEMBLY | 8 |
| – Location Bush Identification | 8 |
| – Margin Distance | 8 |
| – Setting out the Joints | 8 |
| OPERATION | 9 |
| – Setting the Length Stop | 9 |
| – Female Joint | 10 |
| – Male Joint | 11 |
| – Out-of-square Joints | 11-12 |
| – Cutting the Bolt Recesses | 13-14 |
| – Strengthening the Joint | 15 |
| – Sealing the Joint | 15 |
| – Corner Radius | 16 |
| – 22.5° Mitre Joint | 16 |
| – Curved Peninsular | 17 |
| – 45° End Cut | 18 |
| SPARE PARTS | |
| – Spare Parts List & Diagram | 19-20 |
| TROUBLE SHOOTING | I/B |

The following symbol is used throughout this manual:



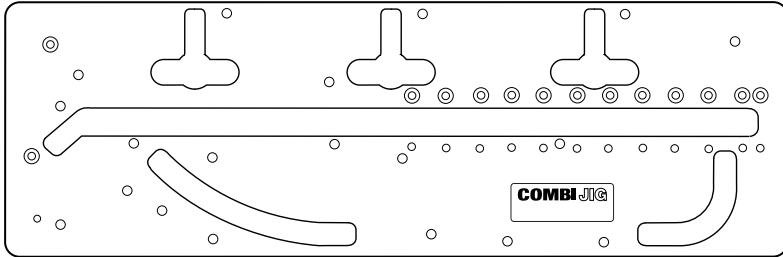
IMPORTANT!

Please take note of comments.



If you require further technical information or spare parts for the Combi, please call our technical support department on 01923 224681.

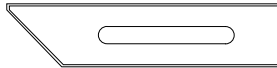
ITEMS ENCLOSED



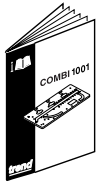
1 x Solid laminate
combination template



2 x Location bushes



1 x Length setting stop



1 x Manual



1 x Machine screw csk



1 x Washer



1 x Guarantee card



1 x Knob

Specification

| | | |
|-----------|---|--------|
| Length | = | 1200mm |
| Width | = | 370mm |
| Thickness | = | 16mm |
| Weight | = | 9.6kg |

SAFETY PRECAUTIONS

- Always switch off the power and unplug the router when changing cutters or when making adjustments.
- Always wear protective goggles when routing.
- Wear sound protective ear muffs when routing for long periods of time.
- Always wear a dust mask or respirator. Use dust extraction equipment whenever possible.
- Do not wear loose clothing. Make sure baggy sleeves are rolled up and ties are removed.
- Always remove spanners and hex keys from the workpiece before switching router on.
- Keep hands well clear of the router cutter when routing.
- Avoid accidental starting of the router. Make sure the power switch is in the 'Off' position before plugging in and connecting to the electrical supply.
- Never leave the router unattended when running. Always wait until the router comes to a complete stop before making any adjustments.
- Do not switch the router on with the cutter touching the workpiece.
- Mount the workpiece securely to a work bench or to a workboard fitted to a suitable surface.
- Periodically check all nuts and bolts to make sure they are tight and secure.

Cutter Care

- Do not drop cutters or knock them against hard objects.
- Cutters should be kept clean. Resin build-up should be removed at regular intervals with Resin Cleaner[®]. The use of a dry lubricant will act as a preventative such as Trendicote[®] PTFE spray.
- Cutter shanks should be inserted into the collet at least $\frac{3}{4}$ of shank length to prevent distortion. A distorted collet should be discarded, as it can cause vibration and damage the shank.
- Do not over-tighten collet as this will score the

shank and create a weakness there.

- It is also advisable to periodically check the router collet nut for wear.

Useful Advice

- Judge your feed rate by the sound of the motor. In time, the operator will acquire a 'feel' for the router, and a feed speed relative to the work will come naturally. Too slow a feed will result in burning.
- Apply the normal precautions as with any electric power tool.
- The main abuse of routing machines is the inclination for operators to overload them. The motto is 'Keep the revs up'. The drop in revolutions should not exceed, if possible, more than 20% of full running speed.
- The motor of a router is susceptible to the accumulation of sawdust and wood chips, and should be blown out, or 'vacuumed', frequently to prevent interference with normal motor ventilation.
- Refer to the Instruction Manual supplied with your router for full details of its features and safety information.
- Trial cuts should be made on waste material before starting any project.

ACCESSORIES

Recommended Cutters

A 12.7mm (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.

Order Ref. C153, TR17D, TR17, 3/83D, 3/83M



Order Ref. RT/11, RT/11M



| Description | Order Ref. |
|--|---------------|
| Craft Range Cutter | C153x1/2TC |
| As above with TC centre tip | C153Dx1/2TC |
| Trade Range Cutter | TR17x1/2TC |
| As above with TC centre tip | TR17Dx1/2TC |
| Professional Range Cutter | 3/83x1/2TC |
| As above with TC centre tip | 3/83Dx1/2TC |
| As per 3/83 but with shorter shank for Makita, Ryobi & Hitachi routers | 3/83Mx1/2TC |
| Replaceable tip cutter | RT/11x1/2TC* |
| Above cutter (with shorter shank) for Makita, Ryobi & Hitachi routers | RT/11Mx1/2TC* |
| Replacement blade (1 off) | RB/A |
| Replacement blade (10 off) | RB/A/10 |

*This cutter has a 30mm tip length but will cut to a maximum depth of 50mm.

Sub-base Sets

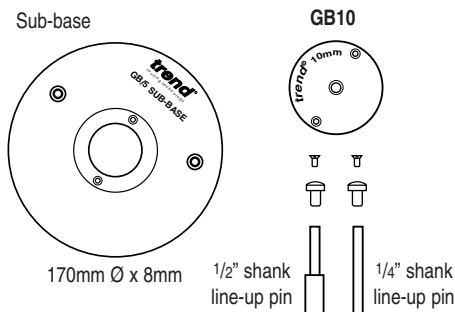
To obtain a perfect accurate close fitting joint, a 30mm guide bush must be used. The guide bush must always be fitted concentric with the cutter. This can be achieved using Trend sub-bases and 30mm outside diameter guide bush ref. GB30.

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 two line-up pins. The line-up pins and bush ensure exact alignment of sub-base with router spindle, when fitted with the relevant collet.

GB/5 Set comprises the following



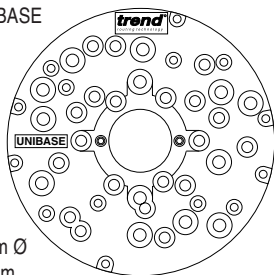
Fits following Router Models

| Description | Order Ref. |
|--|----------------|
| Elu MOF31,77,98,131,177(E), Bosch GOF1600A & 1700ACE DeWalt DW625EK Felisatti R346EC | GB/5 |
| Makita 3612BR & 3600B Ryobi RE600N & R600N, RE601 | GB/5/A |
| Hitachi M12V, M12SA & TR12 | GB/5/D |
| Makita 3612C & 3612 | GB/5/J |
| Bosch 1300ACE | GB/5/K |
| Freud FT2000E AEG OFSE2000 Casals FT2000VCE | GB/5/L |
| Flex OFT3121VV, Portercable 7539, 7519 | GB/5/M |
| Felisatti TP246(E) Festo OF2000E, Kinzo 25C46, Mafell L065E, Metabo OF1612 & OFE1812, Performance PRO1250, Ryobi R500 & R502, Skil 1875U1, Triton TRB001, Wadkin R500 | GB/5/S* |

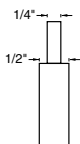
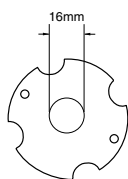
*Please state model when ordering.

UNIBASE comprises the following

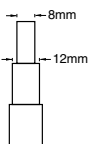
UNIBASE



170mm Ø
x 8mm



1/4" + 1/2"
shank
line-up pin



8mm +
12mm shank
line-up pin

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)
- Faithfull FPPR2000E
- Felisatti TP246(E), R346EC
- Festo OF2000E
- Freud FT2000E
- Hitachi M112V, M12SA, TR12
- Metabo OF1612, OFE1812
- Ryobi RE600N, R600N, RE601, R500, R502

- Skil 1875U1
- Wadkin R500

Description

Universal sub-base

Order Ref.

UNIBASE

GB30 30mm Guide Bush



Description

30mm guide bush to fit sub-bases

Order Ref.

GB30

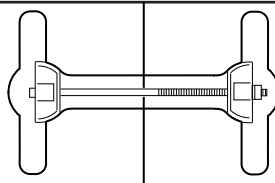
General instructions for fitting sub-bases to Router

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.

Panel Butt Connectors

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 cutter. The recess is elongated to allow easy access for the spanner. Two types are offered, plastic ended or metal ended. Plastic ended offer better grip.

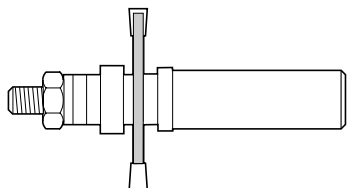
See the latest Trend Routing Catalogue for details.



| Description | Order Ref. |
|--|------------|
| Panel Butt Connectors plastic ends (pack of 10) | PC/10 |
| (pack of 50) | PC/50 |
| (pack of 100) | PC/100 |
| (pack of 1000) | PC/1000 |
| Panel Butt Connectors metal ends (pack of 10) | PC/10/M |
| (pack of 50) | PC/50/M |
| (pack of 100) | PC/100/M |
| (pack of 1000) | PC/1000/M |

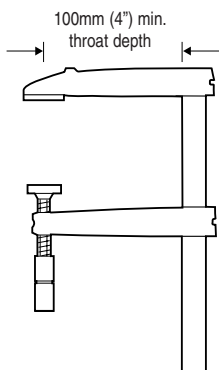
Biscuit Joiner for the Router

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



| Description | Order Ref. |
|---------------------------------------|-------------|
| Craft Range Biscuit Joiner Set | C152x1/2TC |
| Trade Range Biscuit Joiner Set | TR35x1/2TC |
| Professional Range Biscuit Joiner Set | 342x1/2TC |
| No.20 Biscuits – | |
| Quantity 100 | BSC/20/100 |
| 1000 | BSC/20/1000 |

Gripper Clamp



| Description | Order Ref. |
|----------------|-------------------------------|
| Gripper Clamps | 6003010 (Two off required) |

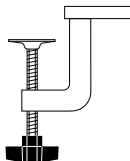


IMPORTANT!

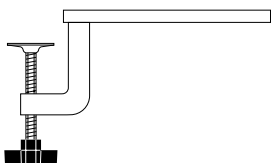
Two heavy duty quick action or gripper clamps with throats of at least 100mm (4") are required to secure the jig to the worktop. Whenever fast action clamps are used, ensure they do not foul the router path and that they are securely tightened.

Bolt-on Clamps

Optional bolt-on clamps which fit directly onto COMBI1001. Fixing Bolt Kits are required for the clamps (1 off for PJ/CL/S and 2 off for PJ/CL/L).



| Description | Order Ref. |
|---------------------------|------------------------------------|
| Short Clamp for COMBI1001 | PJ/CL/S (1 off required) |



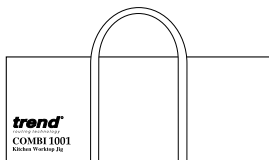
| | |
|--------------------------|------------------------------------|
| Long Clamp for COMBI1001 | PJ/CL/L (1 off required) |
|--------------------------|------------------------------------|



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

Carry Case

Hard wearing carry case for protection. Allows easier transportation of the COMBI1001.



| Description | Order Ref. |
|--------------------------|------------------|
| Carry Case for COMBI1001 | CASE/1001 |

Fill and Seal

A solvent and silicone free coloured bonding sealant used to seal worktop joints to prevent moisture reaching the core material. Available in nine colours, Fill and Seal can be intermixed to match all laminate colour variations. Sufficient to join four 700mm worktops, it is supplied in 100ml flexible tubes, allowing it to be squeezed into the joint prior to closing the joint faces. Low odour and mould resistant the sealant has a fast curing time of around 20 minutes.

| Description | Order Ref. |
|-------------------|--------------------|
| Black Ash | FS/100/BA |
| China Blue | FS/100/CB |
| Champagne | FS/100/CH |
| Deep Buff | FS/100/DB |
| Empire Green | FS/100/EG |
| Oyster White | FS/100/OW |
| Pastel Grey | FS/100/PG |
| Polar White | FS/100/PW |
| Terracotta | FS/100/TE |
| Pack of 9 colours | FS/100/PACK |

ASSEMBLY

Location Bush Identification

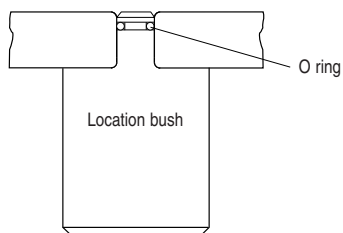
Three location bushes are used in different holes in the jig to align the correct template aperture for the application.

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 the jig ensure location bushes do not foul the workbench.

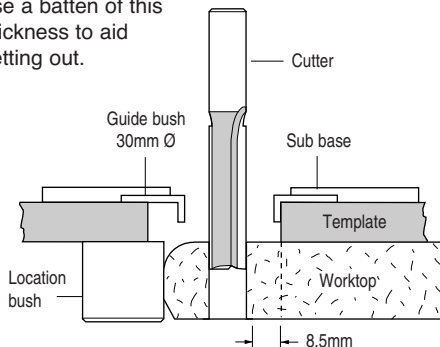


IMPORTANT!

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.

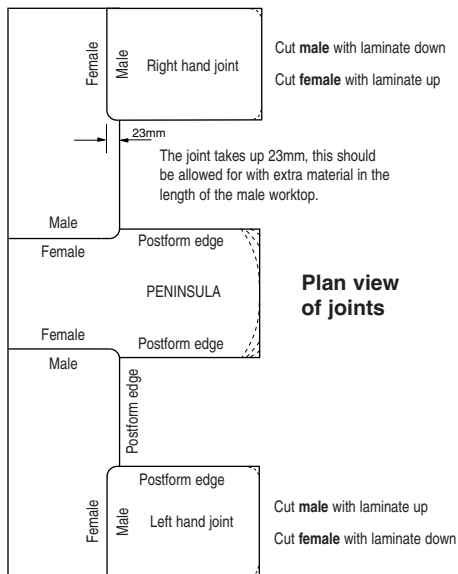
Margin Distance

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 worktops the balancing paper on the underside may feather edge – this feather edge should be removed with abrasive paper.



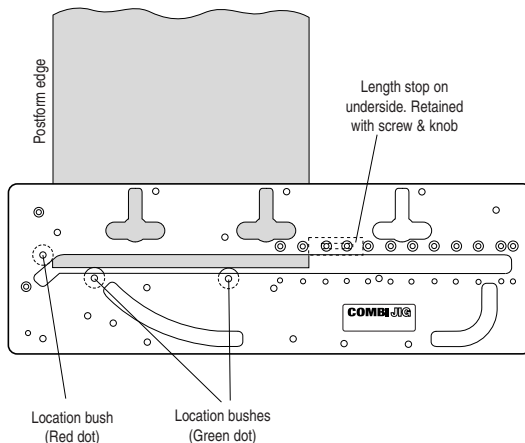
OPERATION

Setting the Length Stop for the Female Cut

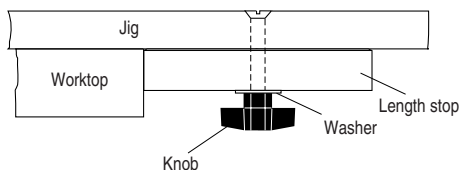
Carry out the setting operation first:

- Fit bushes into **Green** dot location holes and offer the jig to the 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 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.
- 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.

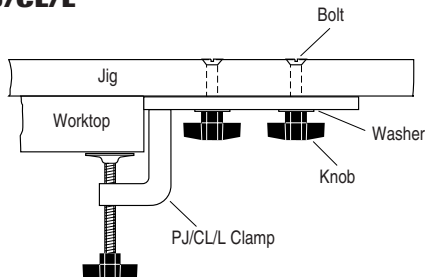
Setting the Length Stop



Length Stop Arrangement



Using Adjustable Clamp Accessory PJ/CL/L



Female Joint

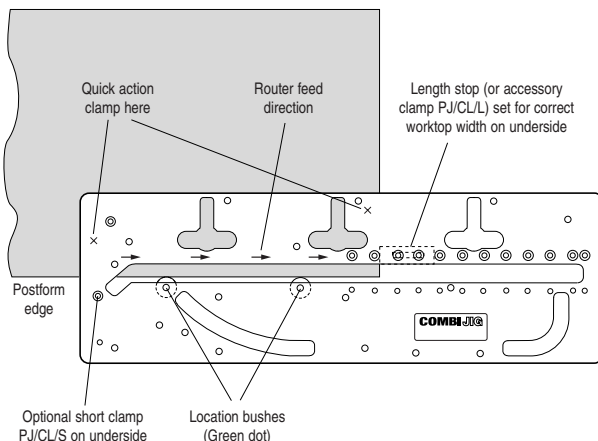
- Leave the two location bushes in holes marked **Green** dot. (The **Green** dots must be uppermost). Leave the length stop bush in position.
- Place the template onto the worktop to be cut, ensuring the location bushes are touching the worktop. Now clamp securely in position using two quick action 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.



IMPORTANT!

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.

Routing the female part of the Joint



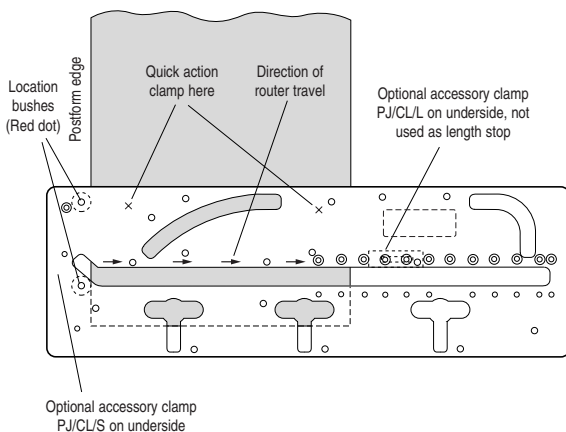
Male Joint

Depending on accessibility lay female worktop on top and support other end. 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.
- Place template across the width of the worktop and clamp securely.
- Cut the male joint before finally cutting the worktop to length. All cuts must be fed left to right.

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.

*Please Note:

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

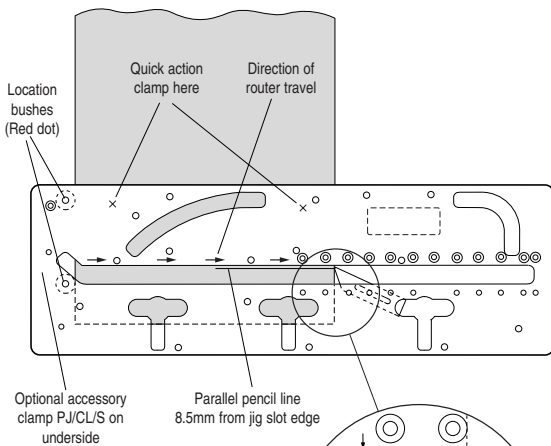


IMPORTANT!

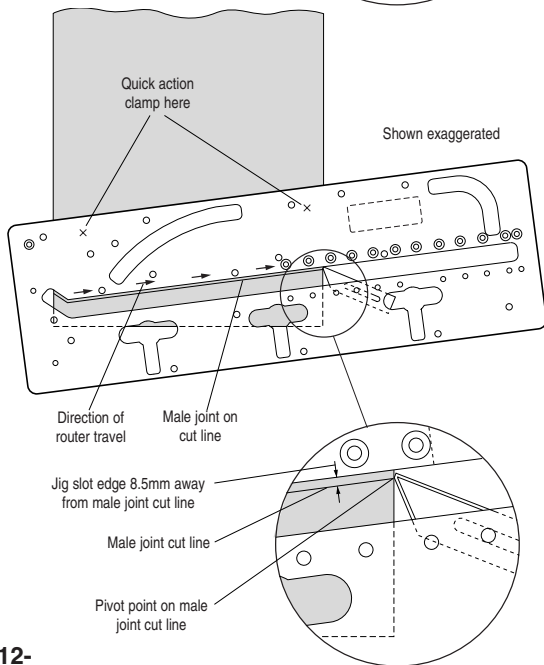
Test fit the joints together, abrasive paper may be required to clean up the chipboard core.

- 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 worktop 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



IMPORTANT!
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

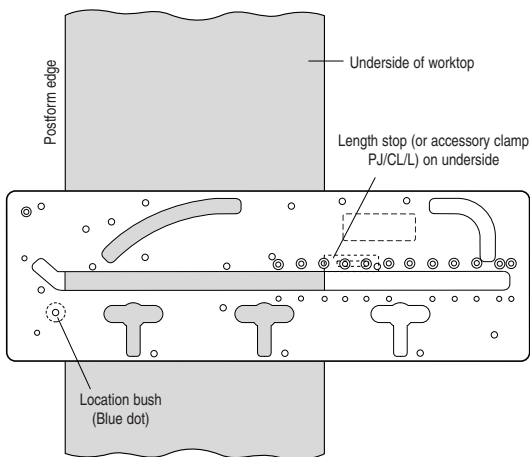
When the joint has been tested, proceed as follows to cut the recess for panel butt connectors on the underside of the worktop. The same cutter and guide bush are retained and used with the integral bolt recess slots in the jig to produce the recesses for the panel butt connectors.

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.

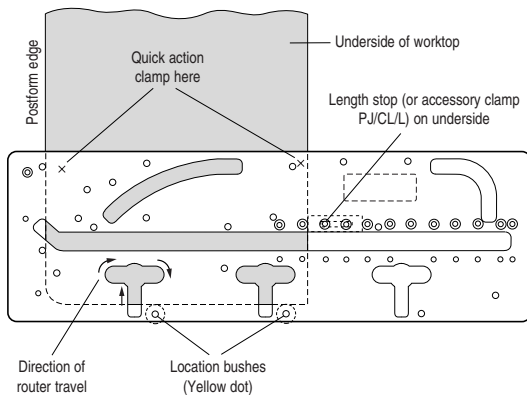
Insert the location bushes into the **Yellow** dot holes as shown.

- The template will need to be inverted when cutting some bolt recesses.
- 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.

Setting bolt recess length stop



Routing the bolt recess in the male part of the joint



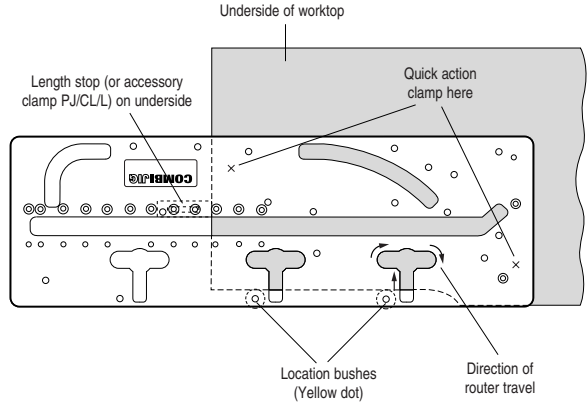
(Continued on next page)

| Worktop Thickness | Depth Recess |
|-------------------|--------------|
| 30 | 22mm |
| 40 | 28mm |



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

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)

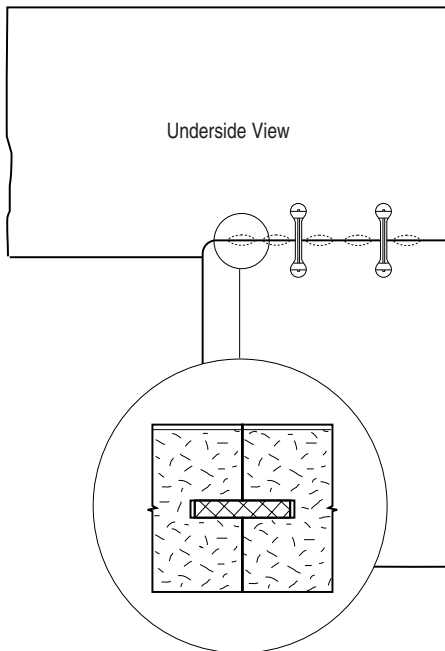
Ref. BSC/20/1000 (1000 biscuits)

A 650mm worktop should have at least 5 biscuits.

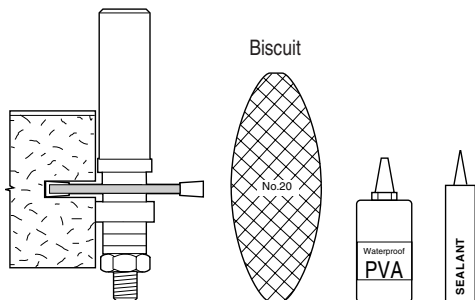
Sealing the Joint

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

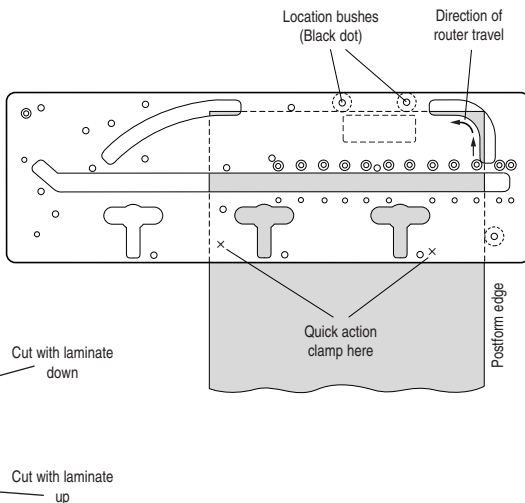
Special Note: Due to the nature of this particular edge laminate, the corner radius will be more awkward to laminate.

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.

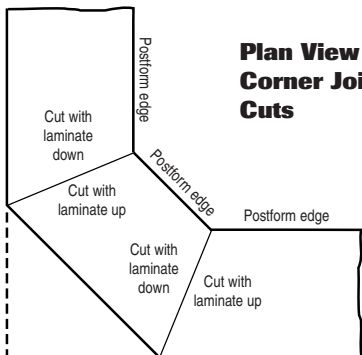
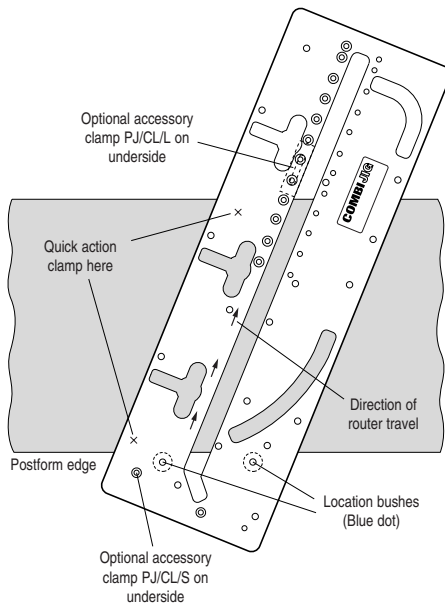
Routing the Corner Radius



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

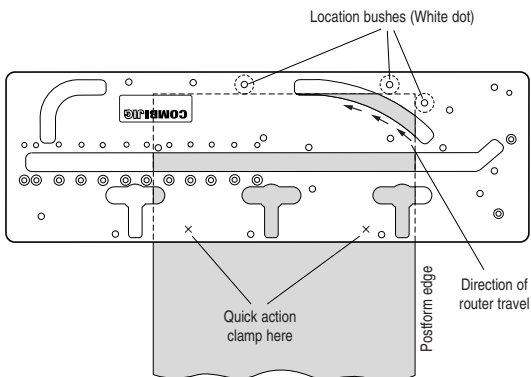
Insert the three location bushes in holes marked **White** dot as shown below.

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

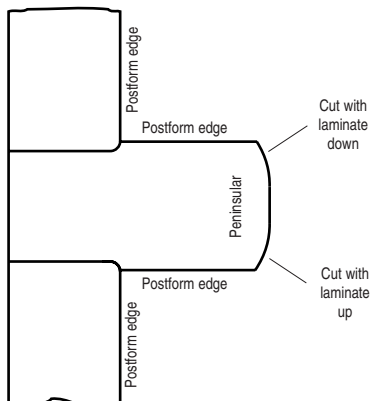
When cutting the curved peninsular, hold the router guide bush against the edge of the template. Cut from left to right.

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



IMPORTANT!

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.

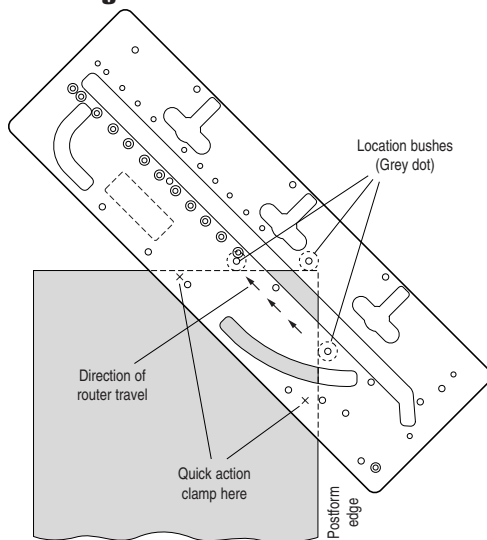
45° End Cut

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

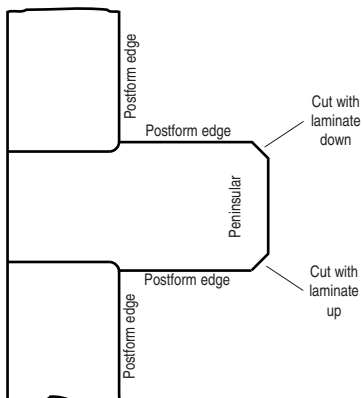
Locate the template on the worktop as illustrated ensuring that bushes are touching the worktop edge. Clamp using two quick action clamps.

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



IMPORTANT!
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.

Guarantee

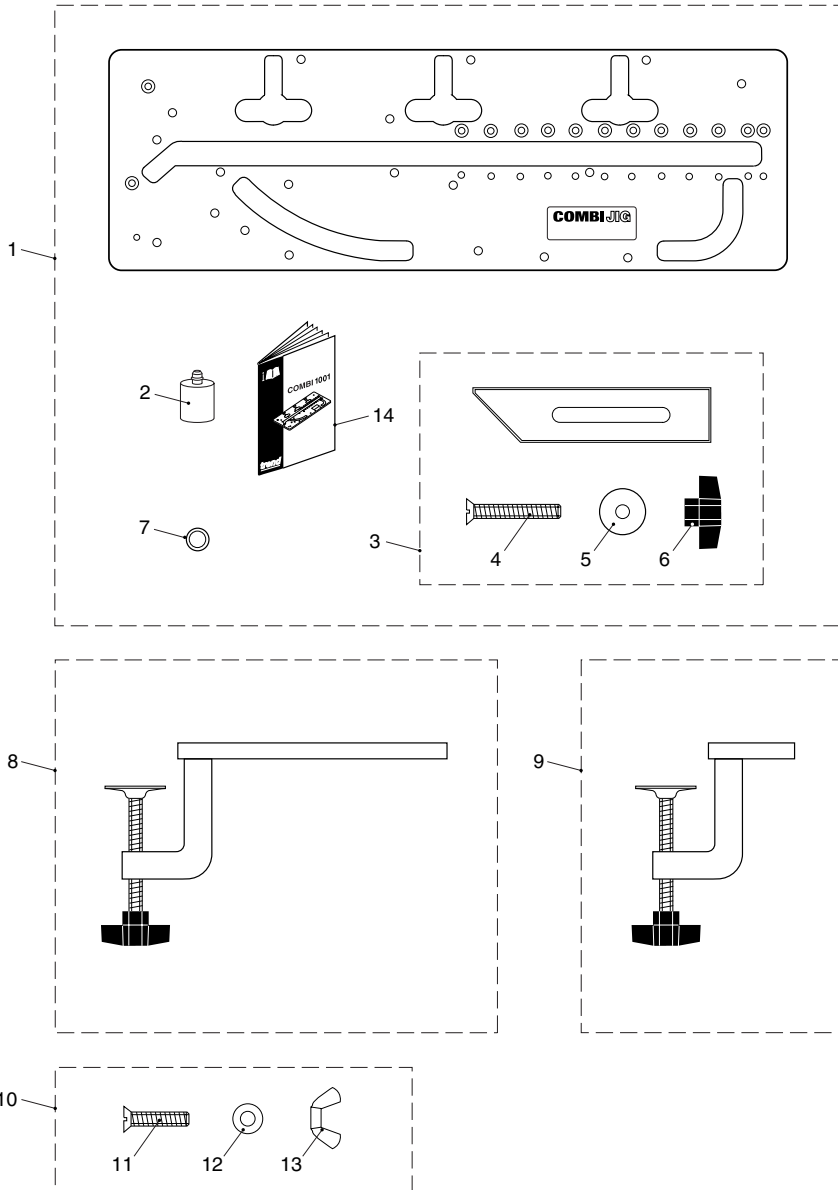
- The jig carries a manufacturers guarantee in accordance with the conditions on the enclosed guarantee registration card.

Recycling

- Jig, accessories and packaging should be sorted for environmentally friendly recycling.

**COMBI 1001
SPARE PARTS DIAGRAM**

v2.0 11/2000



| COMBI 1001 - SPARE PARTS LIST | | | v2.0 11/2000 |
|--------------------------------------|------------|---|---------------------|
| Item | Qty | Description | Ref. |
| 1 | 1 | Combi 1001 Jig | COMBI/1001 |
| 2 | 3 | Alloy Bush | BUSH/1001 |
| 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/1001 |

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/1001 v6.0



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