trend®
tool technology

AR/JIG

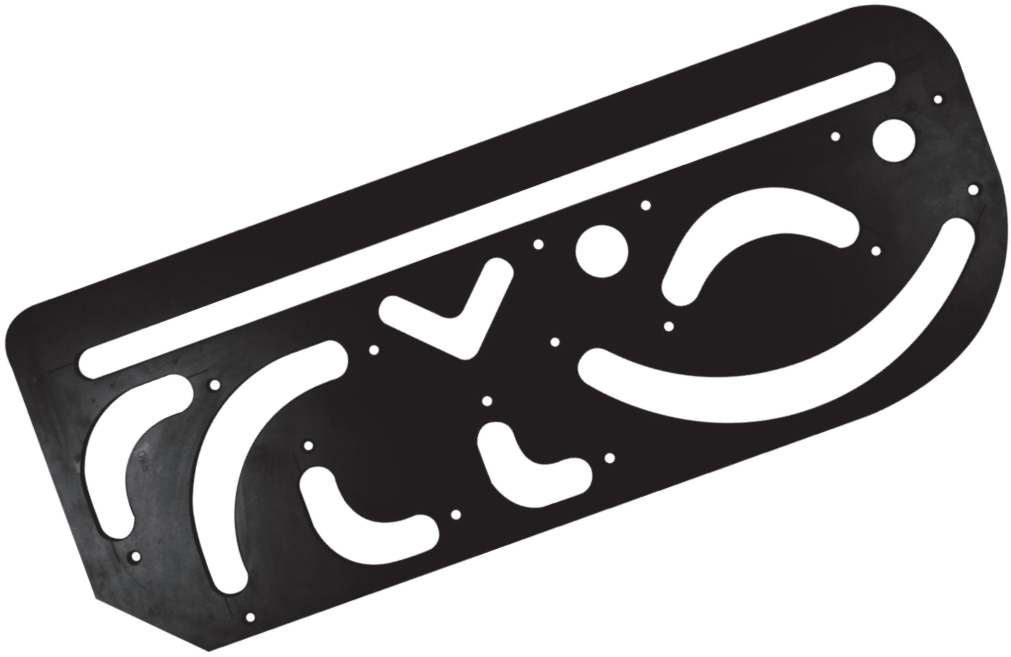


Fig. 1

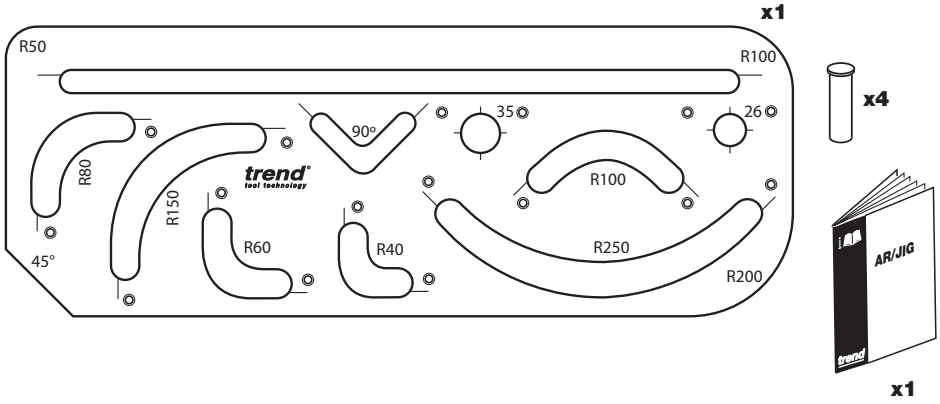

x1
R50
R100
R80
R150
90°
35
26
R100
45°
R60
R40
R250
R200
x4
AR/JIG
x1

Fig. 2

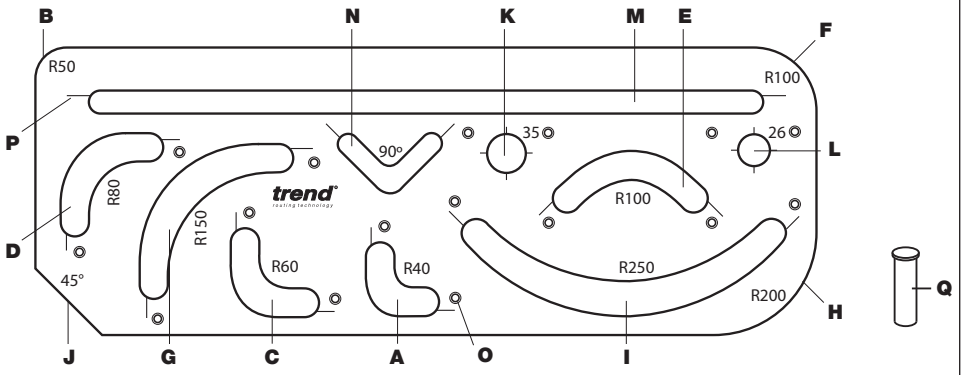
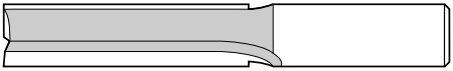
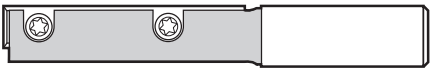

B
N
K
M
E
F
R50
R100
P
90°
35
26
L
R80
R150
R100
D
R60
R40
R250
45°
R200
H
Q
J
G
C
A
O
I

Fig. 3

C153, C153D, TR17, TR17D, 3/83, 3/83D



RT/11



Description	Order Ref.
RT/11 Spare blades	RB/A (1 off) RB/A/10 (10 off)

Fig. 4

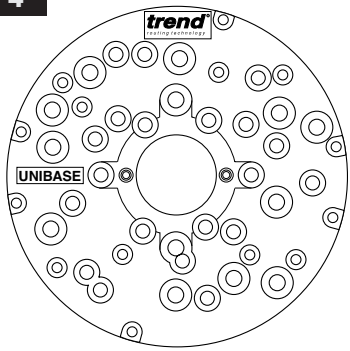


Fig. 5

Fig. 6

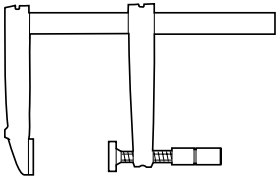


Fig. 7

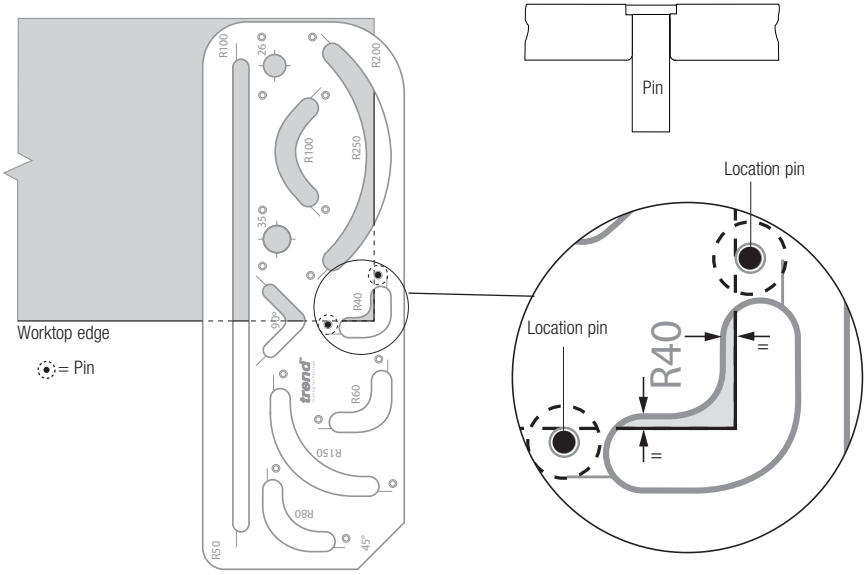


Fig. 8

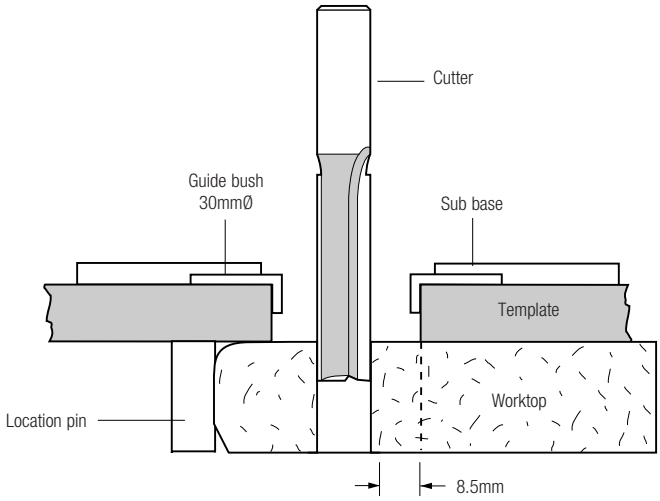

Cutter
Guide bush
30mmØ
Sub base
Template
Worktop
Location pin
8.5mm

Fig. 9

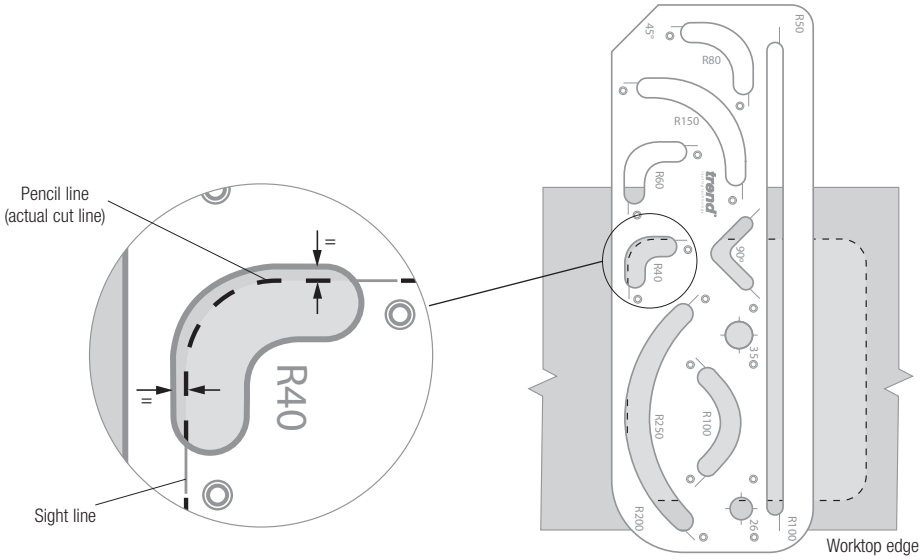

Pencil line
(actual cut line)
R40
Sight line
45°
R50
R80
R150
R60
R40
90°
35°
R250
R100
R200
26°
R100
Worktop edge

Fig. 10

End Cuts

40mm Radius

50mm Radius

60mm Radius

80mm Radius

100mm Radius

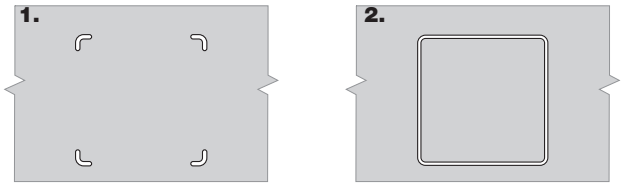
150mm Radius

200mm Radius

250mm Radius

45° Corner

Sink & Hob Cut



90° Radius/Corner & Straight Cuts

Fig. 11

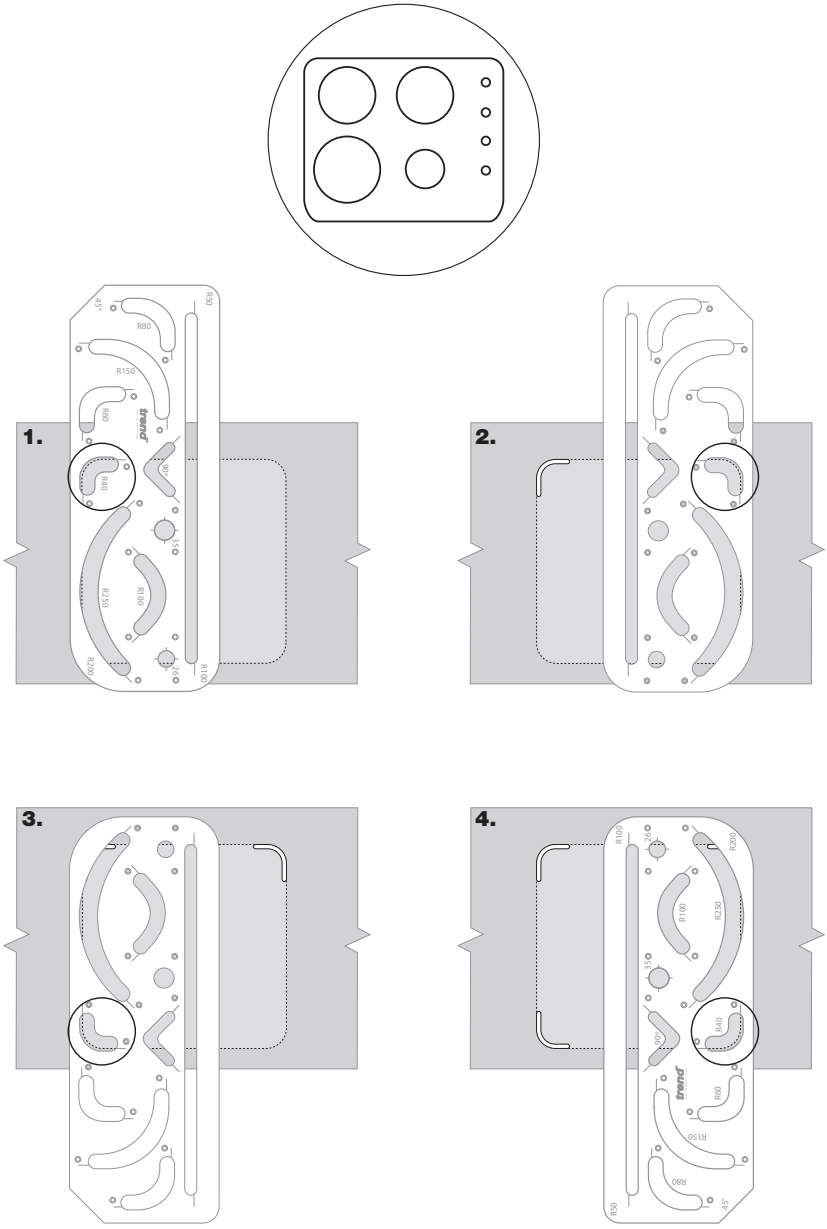


Fig. 12

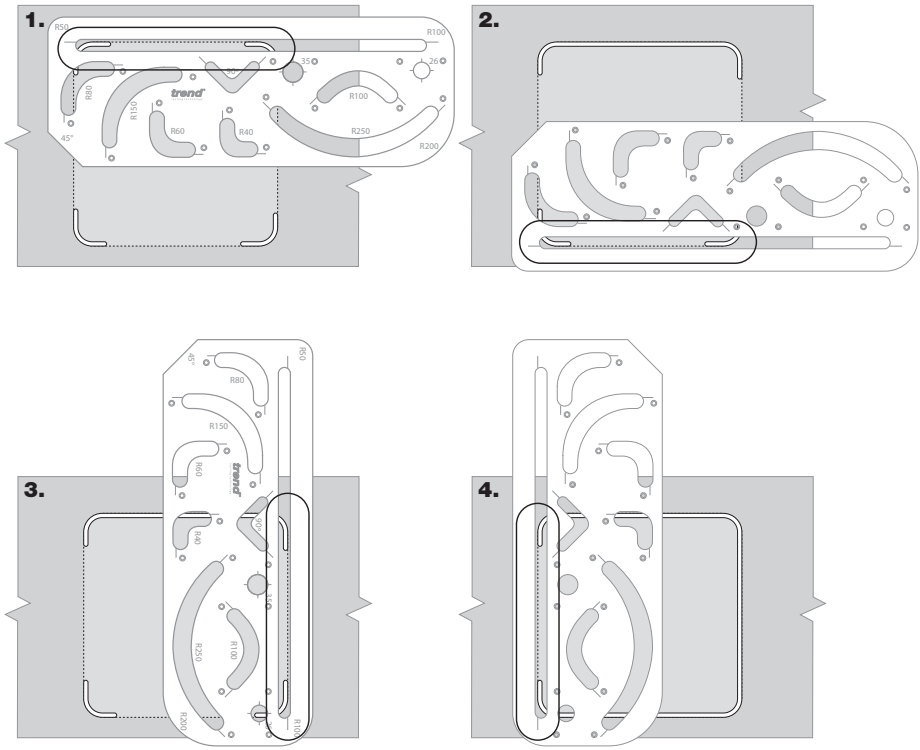

1.
2.
3.
4.
R50
R100
35°
26°
R80
R150
R60
R40
R100
R250
R200
45°
90°

Fig. 13

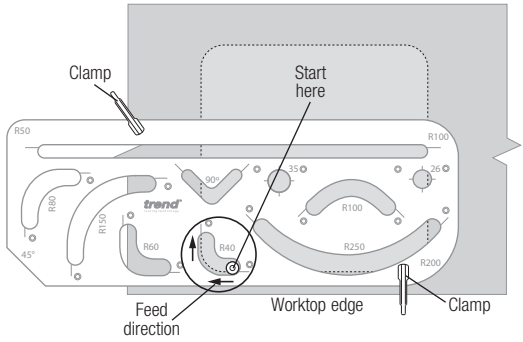

Clamp
Start here
R50
R100
35°
26°
90°
R80
R150
R60
R40
R100
R250
R200
45°
Feed direction
Worktop edge
Clamp

Fig. 13a

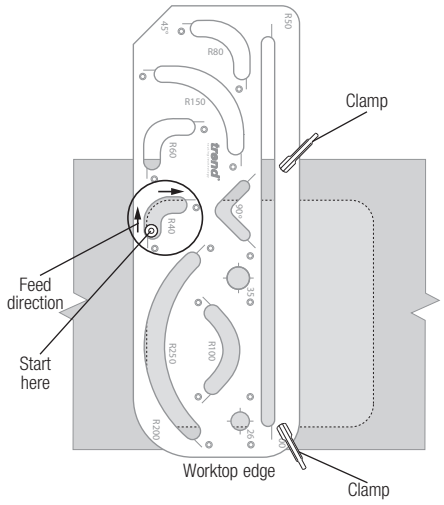


Fig. 14

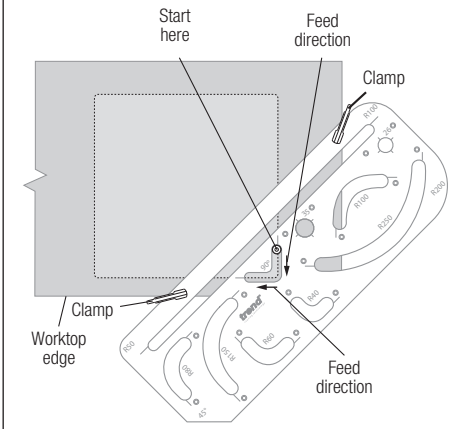


Fig. 14a

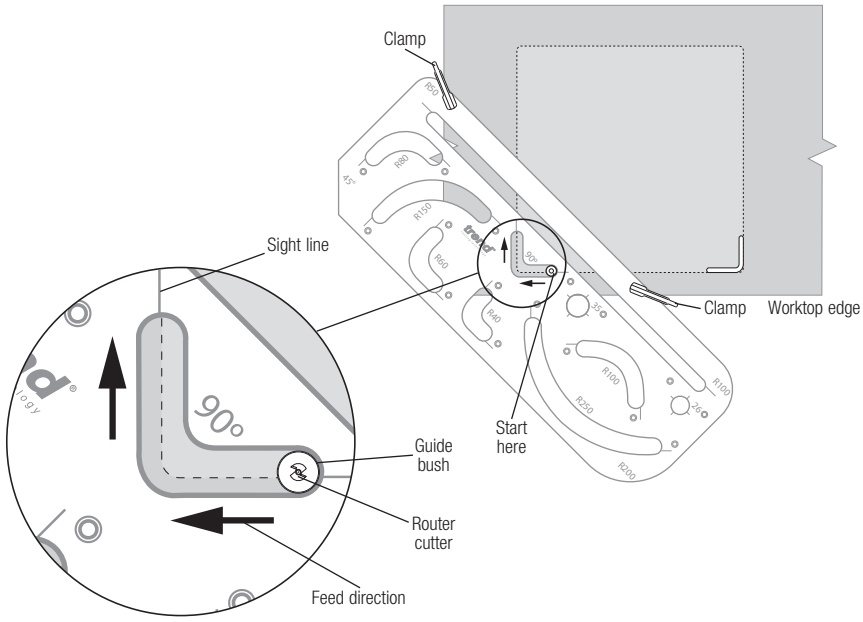


Fig. 15

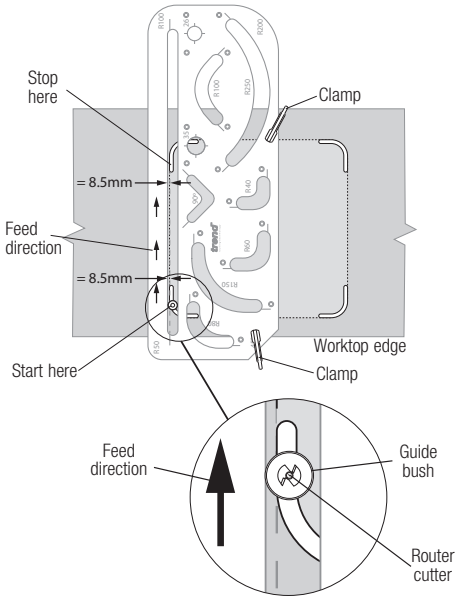


Fig. 15a

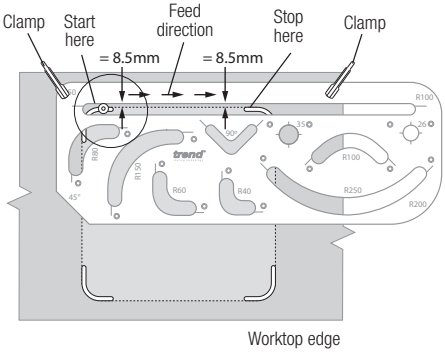


Fig. 16

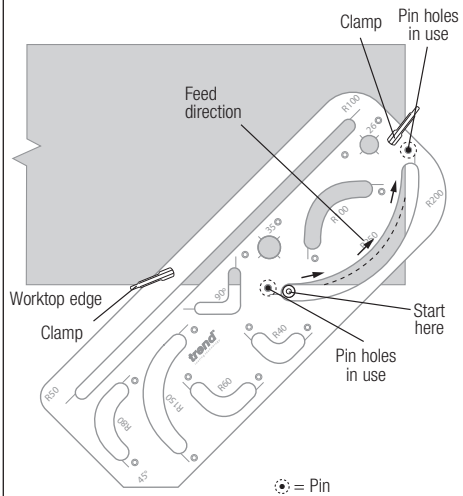


Fig. 16a

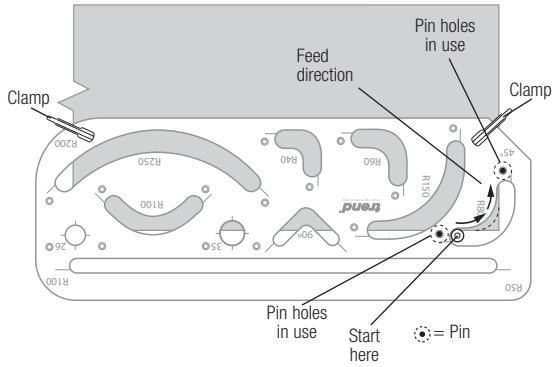


Fig. 17

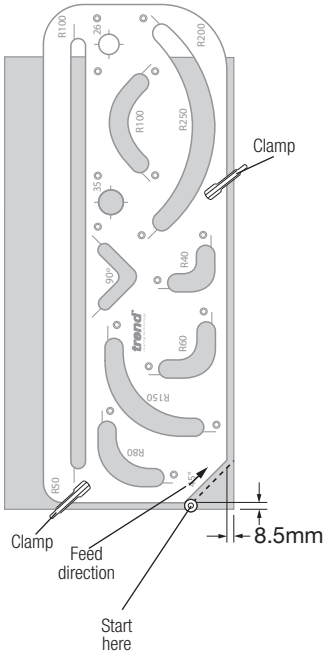


Fig. 18

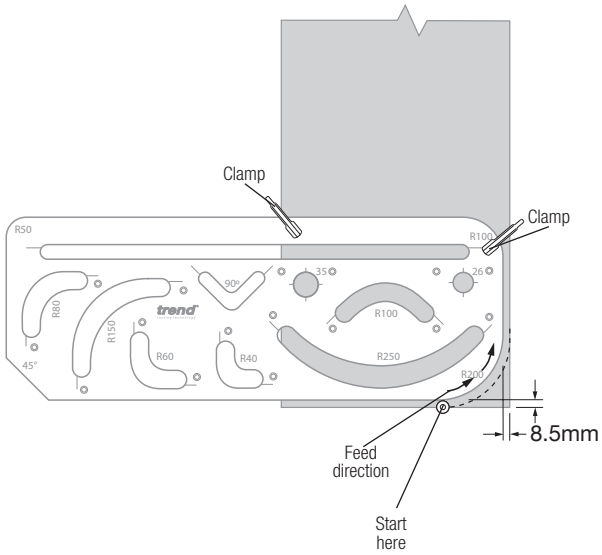
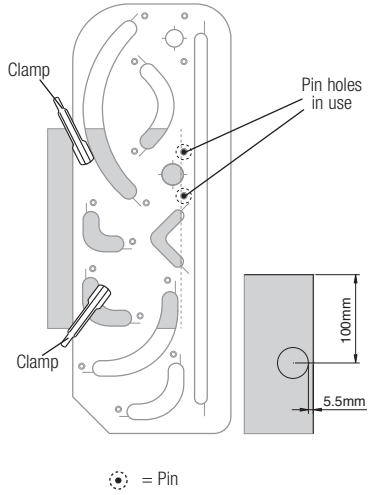

Clamp
Clamp
R50
R100
35
26
90°
R80
R150
R60
R40
R100
R250
R200
45°
8.5mm
Feed direction
Start here

Fig. 19


Clamp
Pin holes in use
Clamp
100mm
5.5mm
= Pin

Dear Customer

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

TECHNICAL DATA

Jig thickness	12mm
Cutter size	12.7mm
Workpiece thickness max.	45mm
Recess depth min.	300mm
Recess depth max.	830mm
Guide bush size	30mm
Weight	4.6kg

The following symbols are used throughout this manual:

Refer to the instruction manual of your power tool.

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

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) or UK Statutory Instruments 2008 No. 1597 - The Supply of Machinery (Safety Regulation (identified by UKCA 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 recesses and apertures for sinks, hobs and corner radii in laminate covered particle board.

SAFETY

Please read and understand the safety points in these instructions as well as your power tool instructions.

PLEASE KEEP THESE INSTRUCTIONS IN A SAFE PLACE

Safety Points

1. Disconnect power tool 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 and cutter has stopped rotating.
2. Read and understand instructions supplied with power tool, attachment and cutter.
3. Current Personal Protective Equipment (PPE) for eye, ear and respiratory protection must be worn. Keep hands, hair and clothes clear of the cutter.
4. Before each use check cutter is sharp and free from damage. Do not use if cutter is dull, broken or cracked or if any damage is noticeable or suspected. Only use tools for woodworking to EN847 safety standard. Ensure cutting tool is suitable for application.
5. The maximum speed (nmax) marked on tool or in instructions or on packaging shall not be exceeded. Where stated, the speed range should be adhered to.
6. Insert the shank into the router collet at least all the way to the marked line indicated on the shank. This ensures at least 3⁄4 of the shank length is held in collet. Ensure clamping surfaces are clean.
7. Check all fixing and fastening nuts, bolts and screws on power tool, attachment and cutting tools are correctly assembled, tight and to correct torque setting before use.
8. Ensure all visors, guards and dust extraction is fitted.
9. The direction of routing must always be opposite to the cutter’s direction of rotation.
10. Do not switch power tool on with the cutter touching the workpiece.
11. Trial cuts should be made in waste material before starting any project.
12. Repair of tools is only allowed according to tool manufacturers instructions.
13. Do not take deep cuts in one pass, take shallow passes to reduce the side load applied to the cutter.
14. User must be competent in using woodworking equipment before using our products. Dress properly, no loose clothing/ jewellery, wear protective hair covering for long hair.

15. Consider working environment before using tools. Ensure working position is comfortable and component is clamped securely. Keep proper footing and balance at all times. Check work area for obstructions. Keep control of power tool at all times.
16. Please keep children and visitors away from tools and work area.
17. All tools have a residual risk so must therefore be handled with caution.
18. Only use Trend original spare parts and accessories.

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

ITEMS REQUIRED & ENCLOSED - Fig. 1

- 1/2" plunge router.
- 30mm guide bush.
- 12.7mm diameter x 50mm cut router cutter with 1/2" shank.
- Trestles x 2.
- Clamps x 2.
- Hand tools.

DESCRIPTION OF PARTS - Fig. 2

A 40mm radius curve (Int & Ext)
B 50mm radius curve (Ext)
C 60mm radius curve (Int & Ext)
D 80mm radius curve (Int & Ext)
E 100mm radius curve (Int & Ext)
F 100mm radius curve (Ext)
G 150mm radius curve (Int & Ext)
H 200mm radius curve (Ext)
I 250mm radius curve (Int & Ext)
J 45° corner
K 35mm circular hinge recess
L 26mm circular hinge recess
M Straight slot
N 90° corner cut (Int & Ext)
O Pin holes
P Engraved sight lines
Q Pin

ACCESSORIES - Fig. 3

Please use only Trend original 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.

Ref. 3/83X1/2TC, 3/83DX1/2TC, TR17, TR17D, C153X1/2TC, C153DX1/2TC or RT/11X1/2TC

Sub-base Set - Fig. 4

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 a Universal Sub-base and 30mm outside diameter guide bush ref. GB30.

The Sub-base fits to the most popular routers and contains screws, a line-up bush and two line up pins. The line up pins and bush ensure exact alignment of with the router spindle.

30mm Guide Bush - Fig. 5

Ref. GB30/A

Clamps - Fig. 6

Ref. FC/200
Two heavy duty quick action or gripper clamps are required to secure the jig to the worktop.

⚠ Whenever clamps are used, ensure they do not foul the router path and that they are securely tightened.

ASSEMBLY

Location Pin Identification - Fig. 7

For external radii, two location pins are used in different holes in the jig to align the correct template aperture. The location pins are only used for external radii or for cutting kitchen circular hinge recess.

Location pins are tapered to ensure a good tight fit in hole. Insert the smallest end of the pin into the hole by lightly pushing. Ensure pins are fully home before use and head is below surface. When using jig ensure location pins do not foul workbench.

Care must be taken to ensure the offset between jig aperture and worktop edge is

equal at each end so that the worktop is routed properly. This can be achieved by measuring and/or marking out. If the offset is not equal the worktop may result in a step being routed or a non-true radius/corner.

Margin Distance - Fig. 8

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

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

⚠ Location pins are only used for external radii.

For external radii R40mm, R60mm, R80mm, R150mm the jig can be set parallel to the worktop edge. For external radii R100mm and R250mm and 90º cut the jig should be at 45º to the worktop edge.

Sight Lines - Fig. 9

The jig is engraved with sight lines, these should be lined up with the actual outline drawn on the worktop. The sight lines allow for the cutter and guide bush offset. Ensure jig aperture and working edge is equal at each end to ensure the worktop is routed properly.
Sight lines are used for internal cuts.

TYPES OF CUT - Fig. 10

OPERATION

HOB/SINK APERTURE ⚠

Marking Out for Hob/Sink Aperture - Fig. 11 - 12

Most sink and hob manufacturers installation instructions will give you the dimensions of the recess or aperture that needs to be cut to fit their particular appliance.

Internal 40mm Corner Sequence - Fig. 11
Measure and mark out these dimensions in the chosen position on your worktop. The pencil lines on the worktop will be used to line up the sight lines on the jig. Drawings show the R40mm internal radius being used.

Special Note: If the manufacturers specifications are not available for the hob, place the hob onto the worktop and draw around it. Next draw a line offset inside your original line by 10-15mm to suit hob recess.

Internal Straight Cut Sequence - Fig. 12

Setting Up and Routing for Internal Radii - Fig. 13 - 13a ⚠

- Mark out where the radii need to be on the worktop for the aperture hole you are cutting, i.e. how big the cut out for the hob is. Drawings show the R40mm Internal Radius being used.
- Select the radius you need and position the jig so that the engraved lines correspond with the markings you have made. Ensure jig edge is parallel to worktop edge.
- Secure the jig firmly in place with clamps.

⚠ The engraved lines should only be used for producing internal radii.

- Ensure router is fitted with correct size guide bush and router cutter.
- Set the depth of cut for 8-10mm for your first cut.
- Position the router on the left hand side of the slot.
- Switch on router and plunge cut and start the cut by pushing the router towards the edge with the corresponding lines opposite to the holes.
- Increase the depth of cut and repeat until the cutting is completed. At end of the cut, release the plunge and switch off router.
- Once all radii are cut, use the straight cut to join the radii using the engraved lines.

⚠ Ensure the router base plate will not foul the clamps.

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

⚠ Release plunge on router at end of each cut.

⚠ Ensure working position is comfortable. Keep proper footing at all times.

Setting Up and Routing Internal 90º Cut - Fig. 14 - 14a ⚠

- Mark out where the 90 degree cuts need to be on the worktop for the aperture you are cutting, i.e. how big the cut out for the hob should be.
- Position the jig so that the engraved lines correspond with the markings you have made.
- Secure the jig firmly in place with clamps.
- Set the depth of cut for 8-10mm for your first cut.
- Position the router on the left hand side of the slot. Switch on router and plunge cut, start the cut by pushing the router along the jig slot edge.
- Increase the depth of cut and repeat until the cutting is completed. At end of the cut release the plunge and switch off router.
- Once all the 90 degree corners are cut use the straight cut to join the corners using the engraved lines as a set up guide.

⚠ Release plunge on router at end of each cut.

⚠ Ensure jig overhang is supported.

Setting Up and Routing Internal Straight Cut - Fig. 15 - 15a ⚠

The internal straight cut is used to join the corners that were previously cut.

When routing the straight slot cut it is necessary to set the jig offset accordingly. The straight cut slot has engraved sight lines at each end but only one sight line can generally be used at a time for most cuts.

- Place the jig on the worktop, align one sight line to the edge of the routed slot and set the other end of the jig straight slot 8.5mm away from the other routed corner. This ensures the correct offset.
- Mark the length of cut required on the worktop.
- Secure the jig firmly in place with clamps.
- Set the depth of cut for 8-10mm for your first cut.
- Position the router on the left side of the jig slot. Switch on router and plunge cut, start the cut by pushing the router along the jig slot edge. Ensure to stop at the correct length.
- Increase the depth of cut and repeat until the cutting is completed. At the end of the cut, reduce the plunge and switch off router.
- Follow this process for joining internal radius cuts for hob, sink cut outs.
- For hob, sink cut outs we recommend routing the radii first, then routing the straight cuts to join them. Ensure waste is supported.

⚠ For straight cuts, only part of the straight slot in the jig is used. Use user made stops or rout to a pencil line to limit slot length.

⚠ Ensure jig overhang is supported.

EDGE CUTS

Setting Up and Routing for External Radii - Fig. 16 - 16a ⚠

- Choose which radius you want to use and place the two location pins in the appropriate holes.
- Position the jig, making sure the pins are pushed firmly against the worktop edges.
- R250 and R100 need to be set at 45 degrees to the worktop edge.

- R150, R80, R60 and R40 needs to be set parallel to worktop edge.
- Secure the jig firmly in place with clamps.

⚠ The location pins should only be used for producing external radii.

⚠ Care must be taken to ensure the offset between jig aperture and worktop edge is equal to each side to ensure the worktop is routed properly.

- Set the depth of cut for 8-10mm for your first cut.
- Position the router on the left hand side of the slot and start cutting by pulling the router towards the edge with the corresponding hole opposite to the engraved lines.
- Increase the depth of cut and repeat until the cutting is completed.

⚠ 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

45° Degree Angle End Cut - Fig. 17 ⚠

- Locate the jig on the worktop and line up by eye, ensuring the jig is laid at least 8.5mm in from the edges of the worktop to allow for the cutter and guide bush offset. Ensure jig edge is parallel to worktop edge.
- Secure the jig with clamps. It is recommended that the router depth stops are used and three or four cuts taken cutting from left to right.

⚠ 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 the worktop.

Corner Radius R50mm, 100mm, 150mm or 200mm - Fig. 18 ⚠

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

- Locate the jig on the worktop and line up by eye, ensuring the jig is laid at least 8.5mm in from the edges of the worktop to allow for the cutter and guide bush offset. Ensure jig edge is parallel to worktop edge.
- Secure the jig with clamps.
- When cutting the radius hold the router guide bush against the template radius. Feed left to right. It is recommended that depth stops are used and three or four cuts are taken.

⚠ Ensure jig overhang is supported.

⚠ Ensure jig edge is parallel to worktop edges.

CIRCULAR HINGE RECESS ⚠

Routing 26mm & 35mm Circular Hinge Recesses - Fig. 19 ⚠

- Mark the position of the hinge on the door. The centre of the holes should be roughly 100mm from the top of the door to give the required support, ensure this measurement is as accurate as possible.
- Position two pins in the holes marked in the diagram.
- Position the jig as shown in the diagram with the two pins pushed up against the edge of the door. Ensure jig edge is parallel to door edge.
- Secure the jig with clamps.
- Set the depth for 10mm.
- Commence cutting of the recess making sure to clean out the material in the centre of the hole as well as round the edge.
- Repeat operation increasing the cut by 1mm, therefore setting the total depth for 11mm. (This should be enough clearance for most hinges. Adjust this measurement if you require holes for thicker hinge heads).

Ensure jig overhang is supported.

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

- After use, store jig in its packaging or it can be hung on a wall hook.
- An accessory case is 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.

WARRANTY

The jig carries a manufacturer's warranty in accordance with the conditions on our website **www.trend-uk.com**





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MANU/AR v5.0