



# VJS/AG/36



***trend***<sup>®</sup>  
*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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If you require further safety advice, technical information or spare parts, please call Trend Technical Support or visit [www.trend-uk.com](http://www.trend-uk.com)

## TECHNICAL DATA

Extension thickness	15.8mm
Extension width	54.0mm
Working length at 90°:	Router 915mm*
	Circular Saw 780mm**
Angle range	25° to 155°
Preset angle	30°, 45°, 60°, 90°, 120°, 135°, 150°
Tolerance	±0.2°
Weight	1.83kg

\* With lead-in of 110mm and lead out of 55mm.

\*\* With lead-in of 125mm and lead out of 125mm.

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 instructions manual or 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 accessory is intended to be used with a portable circular saw, jigsaw or plunge router with suitable cutter fitted to cut man-made boards and natural timbers at various angles from 25° to 155°.

### 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<sup>®</sup>. 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.
15. 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.

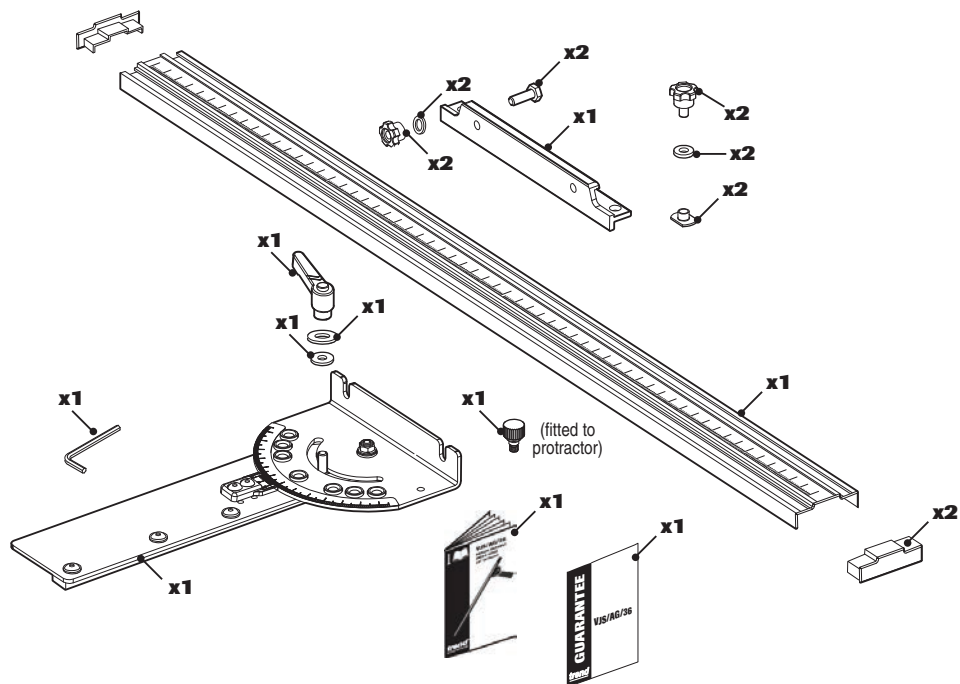
### Useful Advice When Routing

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.
3. 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.
4. 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.
5. Tolerances which ensure correct clamping shall be maintained.
6. 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.

## ITEMS ENCLOSED

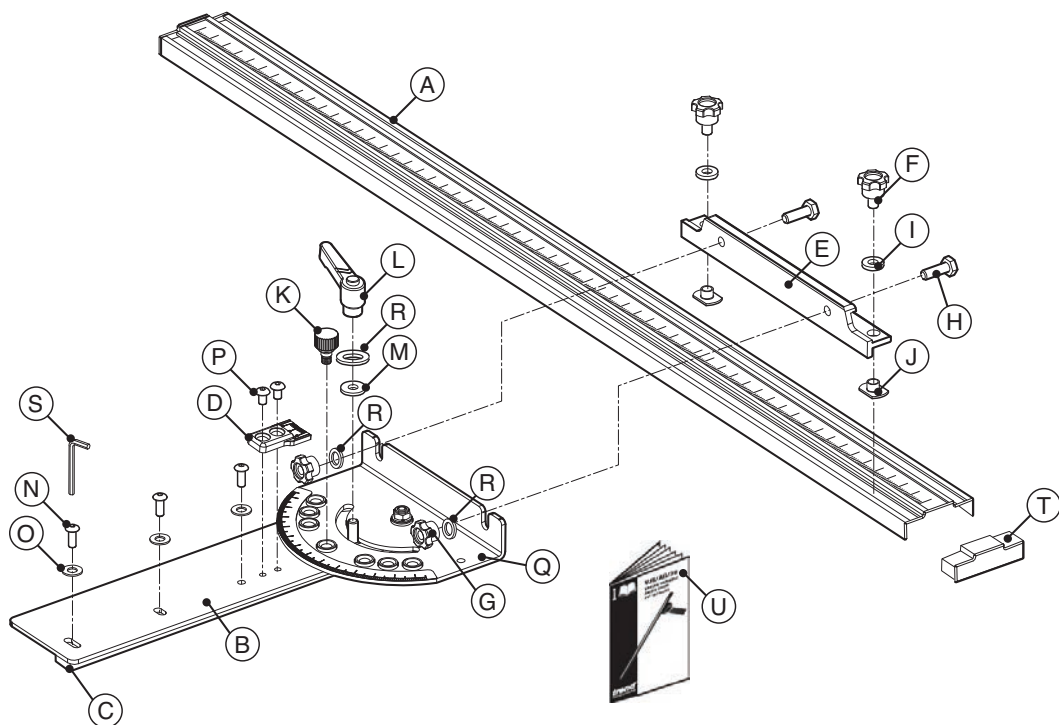


## ITEMS REQUIRED

- Plunge router (or jigsaw/circular saw).
- Clamps x 3.
- Hand tools.

**DESCRIPTION OF PARTS**

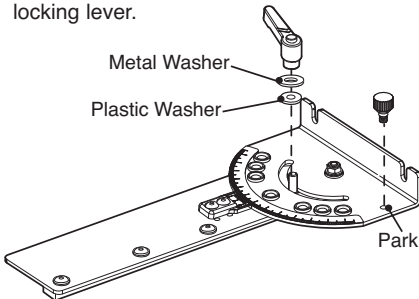
- (A) Alloy extrusion 42" with scale and end caps
- (B) Main body with protractor plate and scale
- (C) Bottom rail
- (D) Zero scale plate
- (E) Alloy connector
- (F) Alloy connector to extrusion knobs (male)
- (G) Alloy connector to protractor knobs (female)
- (H) Alloy connector to protractor plate fixing screws
- (I) Plastic washer
- (J) T-nut
- (K) Knurled locking knob
- (L) Adjustable locking lever (female)
- (M) Adjustable locking lever plastic washer
- (N) Main body to rail fixing screws
- (O) Main body to rail fixing screw washers
- (P) Zero scale plate fixing screws
- (Q) Knurled angle locking knob park
- (R) Metal washer
- (S) Hex key 3mm A/F
- (T) Endcap
- (U) Instructions



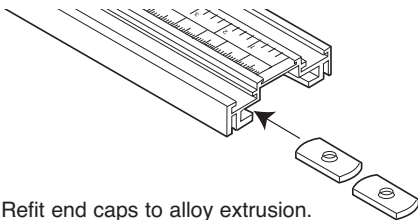
**ASSEMBLY & ADJUSTMENT**

The angle guide requires assembly before use, please use the drawing on page 5 as a guide.

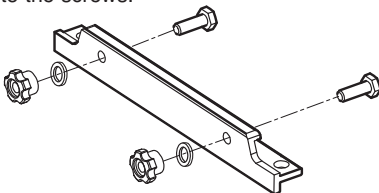
- Remove knurled locking knob and place in park on the protractor.
- Place plastic washer and metal washer on stud on protractor assembly and fit adjustable locking lever.



- Remove end caps on the extrusion and slide the two T-nuts into the slot of the extrusion.

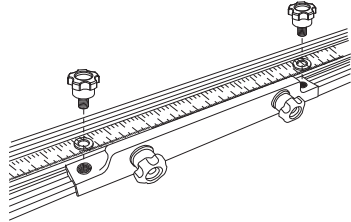


- Refit end caps to alloy extrusion.
- Fit fixing screws into the alloy connector (the hex head sits in the channel) and then the metal washers. Loosely tighten female knobs onto the screws.



**Certain extrusions are fitted with end caps for protection. These can be temporarily removed to allow accessories to be slid onto the extrusion but should always be refitted.**

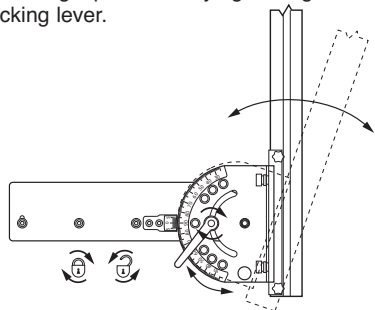
- Fit the alloy connector to the alloy extrusion by locating the two holes of the alloy connector with the two T-nuts in the alloy extrusion. Place the plastic washers over each hole and secure with the male knobs.



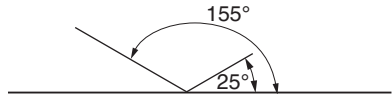
- Tighten the two male knobs.
- Place alloy extrusion and connector assembly on the protractor body washers and tighten the male knobs to secure.

**Adjusting Guide Angle**

- Loosen the locking lever and angle the extrusion at the required angle.
- Lock angle protractor by tightening the locking lever.



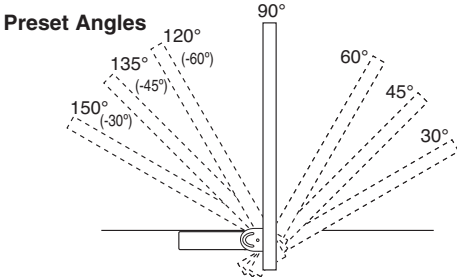
- The angle guide has a range from 25° to 155°.



**The scale is self adhesive backed. Only remove a 20mm section of the self adhesive backing to ease positioning of the scale.**

**Preset Angles**

- When using a preset angle, position the extrusion and protractor at the required angle and use the knurled locking knob in the hole to lock the guide.
- When not in use the knurled locking knob can be stored in the park on the protractor.



**Adjusting Extrusion Position to Main Body**

- Loosen the alloy connector to extrusion knobs to allow the extrusion to be slid backwards or forwards along the alloy connector.
- Ensure both T-nuts remain in the extrusion slot.
- Once position is achieved, lock knobs to secure.

**If the extrusion is used with the end caps removed ensure when sliding the extrusion that both T-nuts remain in the extrusion slot.**

**Zeroing Protractor Guide**

The variable angle guide is factory set, however it has been designed so that the angle protractor can be zeroed. The bottom rail is secured to the main body by three machine screws that can be loosened with the supplied hex key. Two of the screws run through slots, which allow the bottom rail to be pivoted slightly, either forward or backwards which will allow for zeroing.

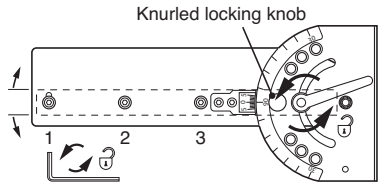
To zero angle guide:-

- Remove alloy extrusion and alloy connector from the main body assembly.

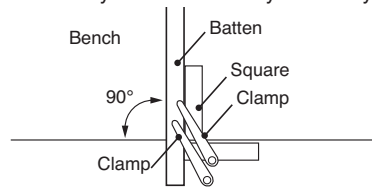
**Ensure working position is comfortable.**

**Ensure all fixing screws are tight.**

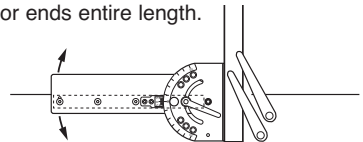
- Loosen the adjustable locking lever, and place the knurled locking knob at the 90° position in the protractor, and tighten down. This locks the protractor in position.
- Loosen the three socket head screws that hold the bottom rail to the main body using the hex key, so the bottom rail can move.



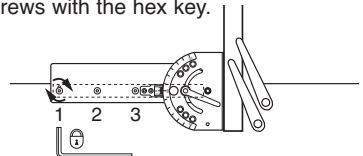
- Using a try square position a planed timber batten (12mm to 18mm thick) to the bench perpendicular to an edge, leaving about 100mm projecting from the bench edge, and clamp securely (ensuring clamps will not get in the way of the main body assembly).



- Position the main body assembly so that the loose bottom rail is up against the bench edge and slide main body assembly towards the timber batten. Adjust the main body assembly (by pivoting slightly) so the end of the protractor is touching the batten along the protractor ends entire length.



- Ensure the bottom rail is touching the bench edge along its length and lock the socket head screws with the hex key.



**Ensure fingers are kept clear of the protractor extrusion when adjusting angle.**



**OPERATION**



The angle guide must have a lead-in and lead-out of the component to ensure the router or saw base plate is always guided. When using a router at 90° the lead-in should be about 110mm and lead-out minimum 55mm. This gives a maximum router crosscut of 915mm. When using a circular saw at 90° the lead-in should be about 125mm and lead-out 125mm. This gives a maximum saw crosscut of 780mm.

As the angle is changed from 90°, the crosscut capacity will be reduced. Furthermore the lead-in may need to be increased accordingly depending on the orientation of the protractor assembly. Please see below:

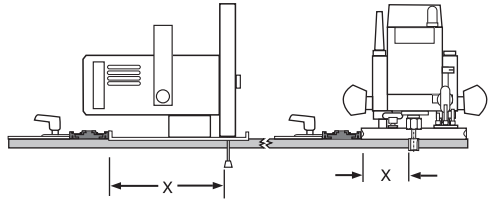
<b>Crosscut Capacity</b>	<b>(x)</b>	<b>Lead-in</b>	<b>Lead-out</b>
 90°	 = 915mm	110mm	55mm
		 = 780mm	125mm
 45°	 = 590mm	200mm	55mm
		 = 530mm	200mm
 130°	 = 630mm	110mm	55mm
		 = 580mm	125mm

**Setting Guide Angle**

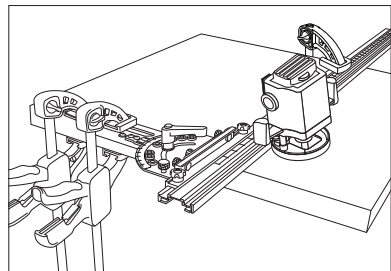
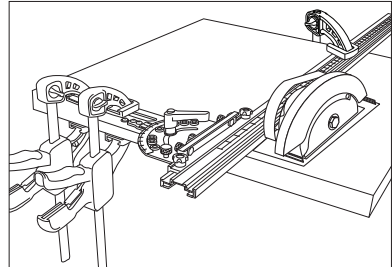
- Set the angle guide to the required angle, either using the preset angles on the protractor and the knurled locking knob, or by using the adjustable locking handle for other angles.
- Always ensure the adjustable locking handle is tight.
- The alloy extrusion can slide along the alloy slide bracket to suit the application, and then locked in place using the male locking knobs.
- For sawing, the alloy extrusion should be set proud (lead-in) of the component edge at least 125mm to give the saw base-plate a sufficient guidance area. A 125mm lead-out should also be used.
- Always check the alloy extrusion is longer than the component, so the power tool is always guided.

**Marking Out for the Cut Line**

To set the angle guide to a cut line marked on the material, measure the distance from the blade or cutter edge to the base edge of the saw or router. This is the offset. Transfer this offset from the cut line and draw a new line. This new line is the position for the angle guide. If the same saw, or same router and router cutter diameter combination are being used, two spacers can be made to the same width as the offset to aid setting up in future.



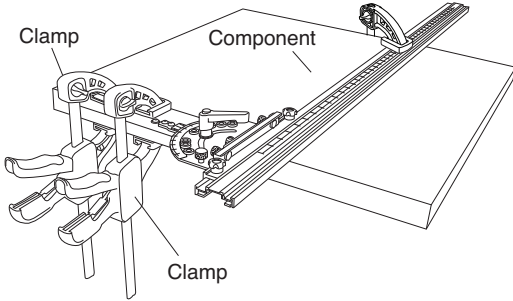
X= Offset distance required from edge of guide to edge of cutter or blade.



**The alloy extrusion can be removed from the main body assembly by loosening the female locking knobs and lifting the extrusion up and away.**

**Clamping**

Always use a minimum of two clamps to hold the main body assembly of the angle guide to the component and a third clamp to clamp extrusion.



Alternatively a pair of accessory friction sliding clamps can be used. Please see Accessories Section. Once the end caps has been removed, they are inserted into each end of the extrusion and slid into the required positions.

**The material being cut will need to be supported and clamped securely.**

**Routing or Sawing using the Angle Guide**

Before cutting ensure the router or saw will run along the length of the alloy extrusion without fouling. Always place the power tool to the right hand side of the alloy extrusion.

- Ensure power tool cable cord is kept clear of cutting area, and that the cutting blade will not damage anything below the component.
- Always feed the power tool the correct way along the alloy extrusion.
- When using a saw, ensure the circular saw motor body does not foul the assembly. Adjust the saw plate to raise the motor higher if necessary.

**Always place power tool to the right hand side of the alloy extrusion, to prevent the cutting tool cutting into the main body assembly.**

**When using a portable circular saw, which has a left sided motor body, ensure the depth of cut is set so that the motor body is a minimum 35mm (1-3/8") above the component. Alternatively if practical use the saw from the other end of the extrusion.**

- If a housing is being routed which is wider than the router cutter, the angle guide can be repositioned for the second cut, by loosening the clamps, moving to new position and then clamping again.  
After use of the guide, keep assembled and store properly.

**Regularly check knobs, handles and locking nuts are tight.**

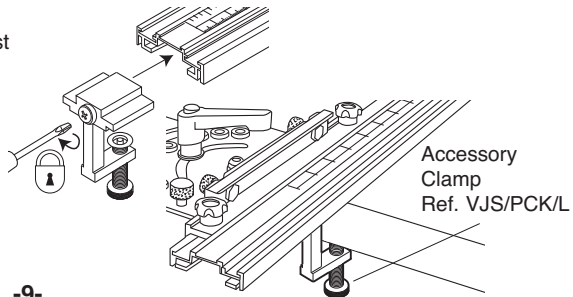
**When carrying angle guide ensure both protractor assembly and alloy extrusion are held safely.**

**ACCESSORIES**

Please use only Trend original accessories.

Friction clamps are available. One clamp is fitted at either end of the extrusion. Tighten friction screw with No.2 Phillips® screwdriver.

- Ref. VJS/CK Sliding friction clamp (pair). Clamping thickness 32mm (1-1/4"). Can be used on guide between 30° to 150°.
- Ref. VJS/CK/L Sliding friction clamp (pair). Clamping thickness 51mm (2"). Can be used on guide between 30° to 150°.
- Ref. VJS/PCK/L Pivot head sliding friction clamp (pair). Clamping thickness 51mm (2").



## **MAINTENANCE**

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

### **Cleaning**

- Keep the grooves on the extrusion and knob threads clear of sawdust.
- Regularly clean with a soft cloth.

### **Lubrication**

- Your accessory requires no additional lubrication.

### **Storage**

- This accessory should be stored safely on wall hooks after use.

## **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 its life should be sorted for environmental-friendly recycling.

## **GUARANTEE**

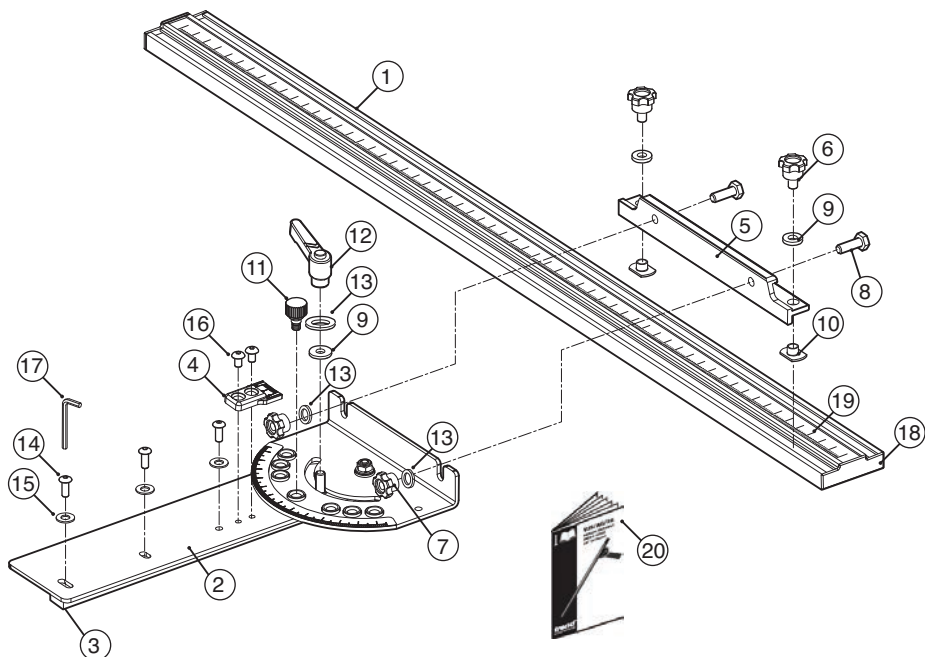
The accessory carries a manufacturers guarantee in accordance with the conditions on the enclosed guarantee card.

Please use only Trend original spare parts.

<b>VJS/AG/36 - SPARE PARTS DIAGRAM</b>			<b>v1.0 01/2010</b>
<b>Item</b>	<b>Qty.</b>	<b>Desc.</b>	<b>Ref.</b>
1	1	Extrusion 1070mm	WP-VJS/07C
2	1	Main Body with Protractor Plate and Scale	WP-VJS/AG/01
3	1	Bottom Rail	WP-VJS/AG/02
4	1	Zero Scale Plate	WP-VJS/AG/03
5	1	Alloy Connector	WP-VJS/AG/04
6	2	Knob Male UNC1/4-20 x 3/8"	WP-VJS/AG/05
7	2	Knob Female UNC1/4-20	WP-VJS/AG/06
8	2	Bolt Hex UNC1/4-20 x 3/4	WP-VJS/AG/07
9	2	Washer 14 x 6.5 x 2.5mm Plastic	WP-VJS/AG/08
10	2	T-nut UNC1/4-20	WP-VJS/AG/09
11	1	Knurled Locking Knob M6 Male	WP-VJS/AG/10
12	1	Adjustable Lever Female UNC1/4-20	WP-VJS/AG/11
13	1	Washer 16 x 6.5 x 1.5mm	WP-VJS/AG/12
14	3	Machine Screw Button M5 x 12mm Socket	WP-SCW/83
15	3	Washer 12 x 5.5 x 1.0mm	WP-VJS/AG/13
16	2	Machine Screw Button M5 x 8mm Socket	WP-VJS/AG/14
17	1	Hex Key 3mm A/F	WP-AP/03
18	2	Extrusion end cap	WP-VJS/06
19	1	Scale 920mm Metric/Imperial	WP-VJS/04C
20	1	Manual	MANU/VJS/AG/36

**VJS/AG/36 - SPARE PARTS DIAGRAM**

**V1.0 01/2010**



MANU/VJS/AG/36 v2.0



RECYCLABLE

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