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Use and Care Manual

WM1800 EU/AU V3 Variable Speed Router

Customer Notes	
Date Purchased	Supplier
Serial Number	

For your Safety and Information

Please read all instructions and retain for future reference.

Failure to follow all instructions listed below may result in electric shock, fire and/or serious personal injury.

Work Area

1. Keep work area clean and well lit. Cluttered, dark work areas invite accidents.
2. Avoid dangerous environments.
3. Do not use your power tool in rain, damp or wet locations or in the presence of explosive atmospheres (gaseous fumes, dust or flammable materials).
4. Remove materials or debris that may be ignited by sparks.
5. Keep bystanders away. Children and bystanders should be kept at a safe distance from the work area to avoid distracting the operator and making contact with the tool or extension cord
6. Protect others in the work area from debris such as chips and sparks. Provide barriers or shields as needed.
7. Make workshop child proof with padlocks, master switches, and by removing starter keys.

Electrical Safety

1. This tool is double Insulated and does not require an earth or ground connection.
2. Should the plug, lead or any other part of this tool be damaged, immediately cease using it and have it repaired by a qualified electrician.
3. Only use with appropriate adapter plugs or IEC plugs for your own country.
4. Always keep the power cord away from moving parts.
5. Do not mistreat the cord. Never use the cord to carry the tools or to pull the plug from an outlet.

Tool Use and Care.

1. This tool is designed for use in an appropriate Router Lift, mounted in an Router Table, DO NOT USE THE ROUTER FREEHAND
2. Do not force this tool. Your tool will perform best at the rate for which it was designed. Excessive force only causes operator fatigue, increased wear and reduced control.
3. Use the right tool. Do not use a tool or attachment to do a job for which it is not recommended.
4. Unplug tool when it is not in use, before changing router bits and accessories or performing recommended maintenance.
5. Never leave the tool running unattended. Turn the power off. Do not leave the tool unattended until it comes to a complete stop.
6. Check for damaged parts. Inspect guards and other parts before use. Check for misalignment, binding of moving parts, improper mounting, broken parts and any other conditions that may affect operation. If abnormal noise or vibration occurs, turn the tool off immediately and have the problem corrected before further use.

DO NOT USE A DAMAGED TOOL

Personal safety

1. Routers are used in close proximity so care should be taken including the use of Safety glasses, ear protection and dust masks. A suitable dust extraction system should be used at all times.
2. The use of feather boards and push stick or push blocks is recommended to keep hands

Note: Using the router with inadequate dust collection will void the warranty.

One Year Limited Warranty

The distributor warrants to the original purchaser that the **AUK Tools WM1800 EU/AU V3 Router Motor** will be free from defects in materials and workmanship under normal use and service for a period of one (1) year from the date of original purchase. The obligation of this Warranty is limited to repair or replacement, at our option, of components which prove defective under normal use.

This is a 'return to base' warranty with cost of shipping being borne by the purchaser.

This warranty is in lieu of all other express warranties obligations or liabilities. ANY IMPLIED WARRANTIES, OBLIGATIONS OR LIABILITIES, SHALL BE LIMITED IN DURATION TO THE ONE YEAR PERIOD OF THIS LIMITED WARRANTY.

This Warranty shall not apply to any product or component which in the opinion of the Distributor has been modified or altered in any way, damaged as a result of an accident, misuse or abuse, or loss of parts.

In no case shall the Distributor be liable for any special or consequential damages, relating to the router, ancillary equipment e.g. router lifts, or any other costs or warranty, expressed or implied, whatsoever.

This Warranty gives you specific legal rights, and you may also have other rights which vary by country.

Warranty Note: By virtue of their design Fixed Base Routers are noisier than Plunge Routers. This is due to the lack of body work generally found on Plunge Routers. Every router is thoroughly checked prior to shipping.

Further Safety Notes

Preventative Maintenance

- * To reduce the risk of injury, always unplug your tool before performing any maintenance. Never disassemble the tool or try to do any rewiring on the tool's electrical system.
- * Keep your tool in good repair by adopting a regular maintenance programme. Before use, examine the general condition of your tool. Inspect guards, switches, power cords and extension cord for damage. Check for loose screws, misalignment, binding of moving parts, improper mounting, broken parts and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, turn the tool off immediately and have the problem corrected before further use. Do not use a damaged tool.
- * To reduce the risk of injury, electric shock and damage to your tool, never immerse in liquid or allow a liquid to enter the tool.
- * Clean dust and debris from vents. Use only mild soap and a slightly damp cloth to clean your tool. Never use cleaning agents and solvents such as: gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia, household detergents containing ammonia, flammable or combustible solvents around tools. These are harmful to your tool, plastics and insulated parts.

- * If the supplied replacement brushes need fitting, please have them fitted by a qualified electrician or power tool repairer.

Collet Changing and Care

- * Keep router collets clean and corrosion free, resin can build up on cutters and collets and should be removed with a resin remover.
- * When changing collets, loosen the collet nut using the supplied wrenches, remove and return the router cutter to safe storage. Continue unscrewing the collet until it can be taken off the main shaft.
- * Before reinstalling, clean the shaft thread, and hollow recess at the bottom of shaft.
- * When reinstalling either of the supplied collets insert the collet into the hollow recess in the shaft, when the collet nut engages the threaded shaft proceed carefully ensuring the nut moves freely on the shaft, Do not cross-thread the nut.
- * Do not tighten the collet without a correctly sized cutter shaft being installed.

Congratulations on purchasing a AUK Tools

WM1800 EU/AU V3 Router Motor



What's in the Box?

AUK Tools WM1800 EU/AU V3 1800watt Fixed Base Router Motor.	1 piece
Offset Collet Wrenches (shaft and collet).	2 pieces
Spare brushes for motor (retain for future use as required)	2 pieces
1/4" (6.35mm) and 1/2" (12.7mm) collets.	1 each
Use and Care Manual.	1 piece

Symbology & Specifications

	Double Insulated
	Volts Alternating Current
$n^{\circ} \text{xxxxmin}^{-1}$	No Load RPM
A	Amperes
CE	European Conformity

Volts AC	Horsepower	No Load RPM
230	2.4	10,000—22,000
This product complies with;		
<ul style="list-style-type: none"> EN 60034-1: 2010 The Low Voltage Directive 2006/95/EC 		

Where to use.

This **AUK Tools** router is designed for use in an appropriate router lift capable of accepting a router motor with a body diameter of 106mm (4.2") either directly or with matching motor clamping pads or adaptors. **DO NOT USE IN ANY OTHER MANNER.**



What sort of Router Table?

Safety, accuracy, stability and ease of use are the hallmarks of a good router table, points of great importance are;

1. Flatness of the table and the lift plate, including the flushness of the plate, insert rings etc.
2. Ease of use and accuracy of the cutting height adjustment mechanism and how the height is maintained in normal use.
3. Stability of the router table stand, the attachment of the router table top, the snugness of the fit of the lift into the top.
4. Secure mounting and ease of adjustment of the router fence.

5. Effective dust and debris collection both above the table and below in the motor enclosure.
6. Ease of safely switching the router motor on and off within easy reach of the operator. No Volt Release switches are highly recommended for this task and may be mandatory in some regions.
7. At all times follow the instructions supplied with the router table components to ensure safe, accurate routing.
8. Always use good dust extraction to keep the router working efficiently and your working environment clean and safe for your lungs. Failure to keep the router clean and free of excessive dust build up may void warranty.

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Optional Router Control Station Installation and Care

The optional AUKTools Router Control Station is designed to give the ultimate in router table convenience and safety, to both hobby woodworkers and light commercial users.

Installation

Locate the switch in a convenient location that is easily accessible when standing in the usual operating position of the Router table.

Drill a 50mm diameter hole through the router table stand or cabinet to allow the power socket and control lead exiting rear of the switch enclosure to pass through. Make sure there are no sharp metal edges that could damage the lead.

Using the supplied aluminium brackets and needle point screws (supplied), secure the switch enclosure to the router table stand or cabinet, at least 2 of the 4 screw positions should be used. **DO NOT** open the enclosure.

The switch is a No Volt Release switch, which means that it is automatically switched off and requires restarting if there is an interruption to the power supply.

Use of Switch

Connect both the routers plug to the switch socket and the control cable ends ensuring that any loose cable is well secured and will not impede the operation of the router cutter, router plunge or lift mechanism.

Switch the inbuilt switch on the router motor to ON, if applicable set the variable speed control to a suitable speed for the router bit in use.

Insert the 3 pin plug into a properly installed power point or extension lead.

Ensure that the router table is clear of loose tools and equipment and that it is safe to start the router.

Press the GREEN start button to start the router, press the RED stop button to stop the router.

Note: When changing router bits and/or adjusting the router, it is recommended that the switch plug is removed from the power point.

The Router Control Station is manufactured in Australia, to Australian standards using local and imported components.

Recommended Router Speed Chart

Speed Setting	Approx. RPM	Max Bit Diameter mm	Max Bit Diameter inches
Slow	10,000	75mm to 90mm	3" to 3-1/2"
Slow	12,000	63mm to 75mm	2-1/2" to 3"
Medium	14,000	50mm to 63mm	2" to 2-1/2"
Medium	16,000	32mm to 50mm	1-1/4" to 2"
Fast	20,000	25mm to 32mm	1" to 1-1/4"
Fast	22,000	Less than 25mm	< 1"

PLEASE NOTE: The above table should be used as a guide only, the router bit manufacturers recommended speed, the condition of the timber i.e. grain, hardness and stability must take precedence over the table above.

Note: As a general rule the larger the bit diameter, the slower the router speed should be set. We have included a User Notes page (page 9) so you can note the settings appropriate to the tasks you perform and the router bits you commonly use.

Your **AUK Tools** router has these features,

1. Electronic Overload Protection

Before the motor is overloaded, the electronic overload protection circuit will turn off the tool.

2. Soft Start

The Soft-Start feature reduces the amount of torque reaction of the tool.

This feature gradually increases the motor speed up from zero to the speed set by the variable speed dial.

3. Feedback Control

The electronic speed control system allows the tool to maintain constant speed between no-load and load conditions. You may hear a brief change in the motor tone, this is the motor adjusting to the change in cutting load conditions.

4. SKF™ Bearings

Your **AUK Tools** router has been fitted with premium quality SKF bearings. To prolong the life of these bearings and to ensure the longevity of your investment we would suggest using good quality router bits. Using well-balanced and sharp bits will give you the best quality cut and finish whilst keeping your router working efficiently.

Enjoying your router table.

The router table is fantastic for creating mouldings, grooves and rebates or when using bearings or guide bushes for curved work, follow these techniques for the best results and safe working.

Great pressure can be exerted on the router when in the table far more than if it were a hand held router, be careful not to overwork the router. Several fine cuts will produce much better results than one heavy cut. Use good quality sharp bits for the best results.

Use pressure guards or feather boards both for personal protection and to improve the consistency and quality of cutter finish. Mount these on both the router table and fence.

Use push pads or push sticks to give constant pressure to the work. Use a free hand guide or bonnet guard when producing curved work.

The use of a lead or starter pin is essential when producing free hand curved routing.

Grooves and rebates will be more efficiently cut using slotting cutters or large diameter rebate bits rather than grooving over the top of small diameter twin flute cutters. 1/2" router bits will generally give a better finish than 3/4" as they have less tendency to flutter in the collet.

Use false or sacrificial fences to stop work falling into the cutter and prevent breakout/tearout.

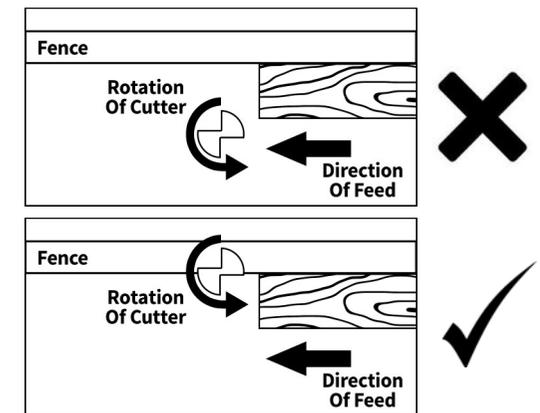
Cutting and turning the timber in a clockwise rotation when routing all four sides, of a table top or door panel will reduce breakout.

When producing stopped work setup secure end stops on either the fence or table to prevent kick back.

Use a coping sled for tenons or end grain work to secure your work.

Select a suitable speed for the bit and work being produced (refer page 8).

Never climb-cut. Always feed the stock from right to left. (see illustrations below)



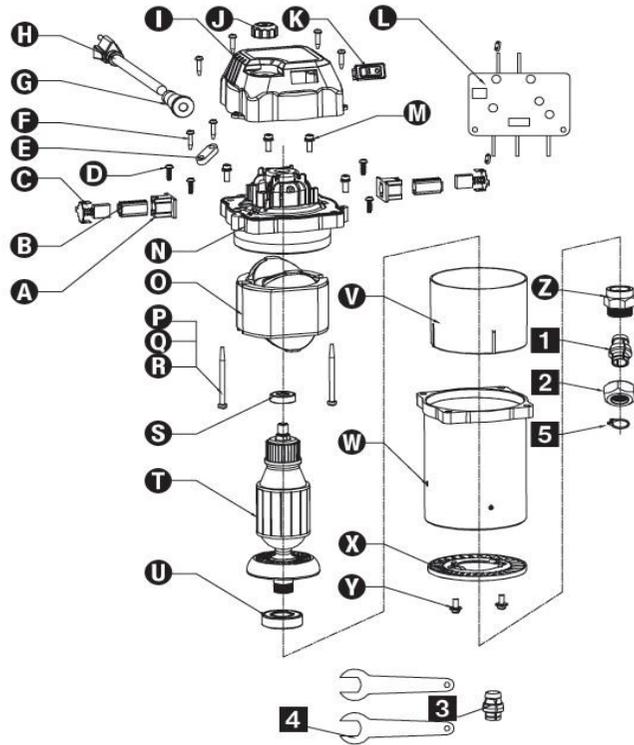
Avoid shaping small stock. Instead, shape a larger piece and reduce it in size afterwards. If you must shape a small piece, build an appropriate jig or secure the work within the jaws of a wooden handscrew clamp.

Always use a guard. If the fence didn't come with a guard, purchase an aftermarket guard or devise one of your own.

Never start the router with the bit in contact with the stock.

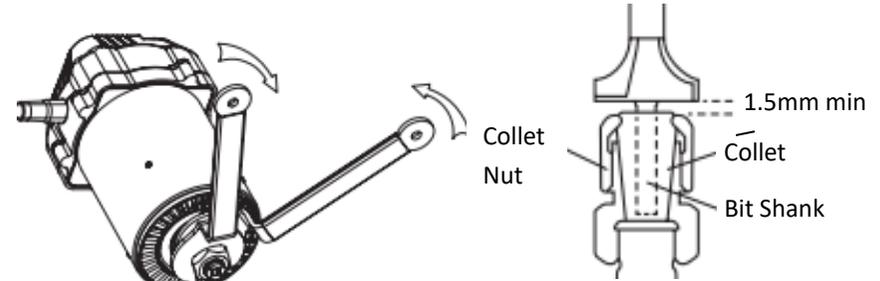
Don't force the bit or overload the router.

Parts diagram



1	1/4" Collet	F	Clamp Screw	P	Pan Head Screw
2	Collet Nut	G	Power Cord	Q	Flat Washer
3	1/2" Collet	H	Power Plug	R	Spring Washer
4	Wrench	I	Motor Rear Cover	S	SKF Bearing
5	Collet Snap Ring	J	Speed Adjustment Knob	T	Motor Rotor
A	Brush Box	K	Power Switch	U	SKF Bearing
B	Brush Shell	L	PCB Board	V	Wind Deflector
C	Carbon Brush	M	Cap Head Screw	W	Motor Housing
D	Retaining Screw	N	Stator Housing	X	Dust Board
E	Lead Clamp	O	Motor Stator	Y	Flange Face Screw

Changing Router Cutters



Installing the Bit

It is not necessary to remove the motor from the lift to install a collet assembly or a bit. (If removal of the motor is desired, see the lift instructions.)

Raise the motor as high as possible. Always wipe wood chips, dust, or other foreign materials from the collet shaft and collet assembly before assembling. Insert the collet assembly into the collet shaft. Insert the bit shank into the collet as follows:

1. Insert the bit shank into the collet as far as it will go.
2. Back the bit shank out slightly to avoid bottoming out.
3. Insert the bit shank into the collet a minimum of $\frac{3}{4}$ of the shank's length or to the K-Line if present on the bit's shank
4. Be sure there is a minimum of 1.5mm between the bottom of the collet assembly and the radius to the cutting portion of the bit (see above).

5. Be sure that the collet is not clamped to a fluted section on the bit shank. The collet should be clamped to a solid part on the bit shank, 3-5mm below the cutting edges.
6. To tighten the bit in the collet assembly use two wrenches (see above)

NOTE: Never tighten a collet assembly without inserting a bit shank of the proper size. TIGHTENING THE COLLET WITHOUT A BIT OR CORRECTLY SIZED BIT WILL DAMAGE THE COLLET.

Removing the Bit

Your **AUK Tools** router is supplied with premium self-releasing collets

1. Loosen the collet nut from the collet shaft using two wrenches.
2. Once loose, unscrew the collet nut by hand until it feels tight again.
3. Return to using the wrenches until the bit shank can be pulled out.