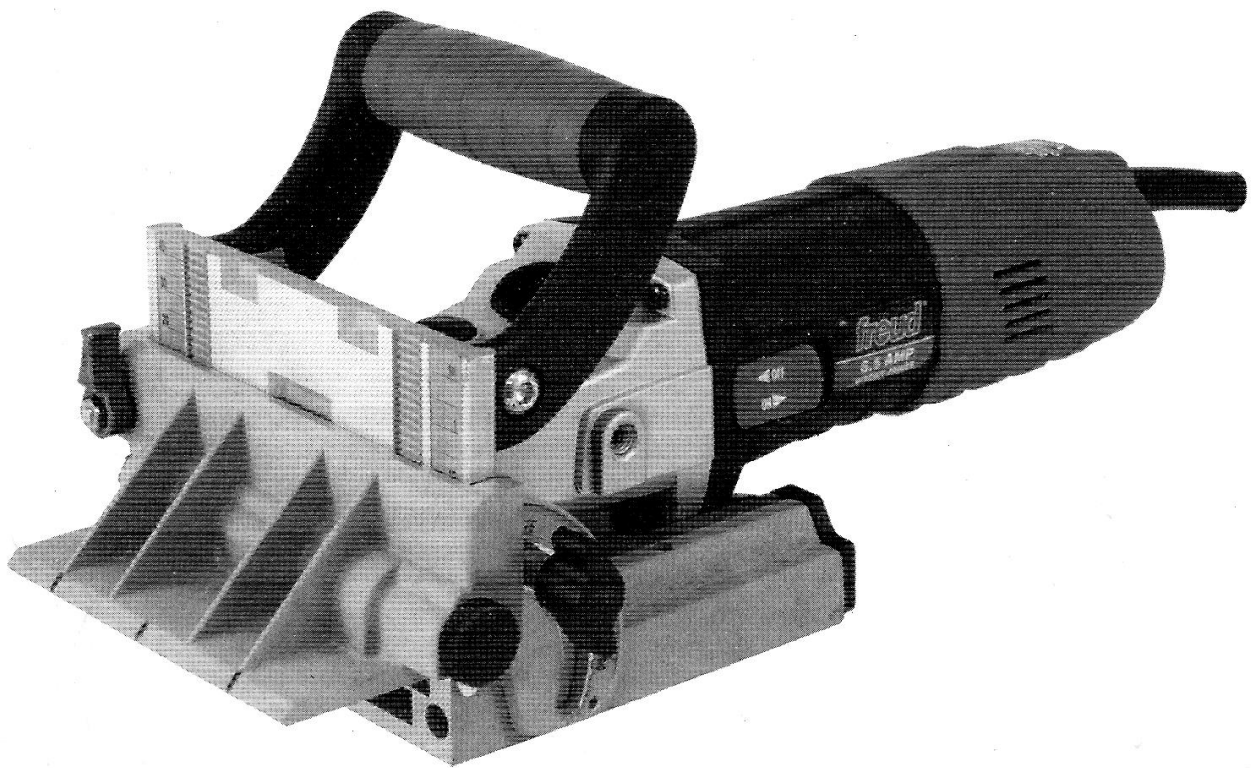


OPERATING INSTRUCTIONS

AVANTI *freud*



JS104K

Biscuit Joiner Kit

English - Français - Español

⚠ WARNING: To reduce the risk of injury, the user must read and understand the operating instructions before using this product.

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SAFETY

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

SAVE THESE INSTRUCTIONS

GENERAL SAFETY RULES

1. Work Area

- Keep your work area clean and well lit.** Cluttered benches and dark areas invite accidents which could result in personal injury.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases, or dust.** Power tools create sparks which may ignite the dust of fumes.
- Keep bystanders, children, and visitors away while operating a power tool.** Distractions can cause you to lose control.

2. Electrical Safety

- Double Insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet.** Do not change the plug in any way. Double Insulation eliminates the need for the three wire grounded power cord and grounded power supply system.
- Prevent body contact with grounded surfaces such as pipes, radiators, ranges, and refrigerators.** There is an increased risk of electric shock if your body is grounded.
- Do not expose power tools to rain.** Do not use power tools in damp or wet locations. Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never carry the tool by the cord or yank the cord to pull the plug from a receptacle. Keep cord away from heat, oil, sharp edges, or moving parts. Replace damaged cords immediately.** Damaged cords increase the risk of electric shock.
- When operating a power tool outside, use an outdoor extension cord marked "W-A" or "W".** These cords are rated for outdoor use and reduce the risk of electric shock.

3. Personal Safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not operate a tool while you are tired or under the influence of drugs, alcohol, or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- Dress properly. Do not wear loose clothing or jewelry. Wear protective hair covering to contain long hair. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry, or long hair can be caught in moving parts.** Rubber gloves and non-skid footwear are recommended when working outdoors.
- Avoid unintentional starting. Be sure switch is off before plugging in.** Do not carry tools with your finger on the switch or plug in tools that have the switch turned on.
- Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.** A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times.** Proper footing and balance enables better control of the tool in any situation.
- Use safety equipment. Always wear protective glasses and hearing protection.** Also use a face or dust mask if cutting operation is dusty.

4. Tool Use and Care

- Secure your work. Use clamps or a vise to secure and support the work piece to a stable platform.** Securing the work with a clamp or vise frees both hands to operate the tool. Holding the work by hand or against your body is unstable and may lead to loss of control.
- Do not force tool.** The power tool will do the job better and safer at the rate for which it was intended.
- Use the correct tool for your application.** Do not use tools for purposes for which they were not intended.
- Do not use tool if switch does not turn it on or off.** Any tool that cannot be controlled with the switch is dangerous and must be repaired. Have defective switches replaced by an authorized Freud service center.
- Disconnect the plug from the power source when not in use, before servicing, and when changing accessories such as blades, bits, and cutters.** Such preventive safety measures reduce the risk of starting the tool accidentally and causing personal injury.
- Store idle tools when not in use.** Tools should be stored in a dry, high, or locked-up place and out of the reach of children.
- Maintain tools with care. Keep cutting tools sharp and clean for better and safer performance.** Follow instructions for lubricating and changing accessories. Inspect tool cords periodically and, if damaged, have repaired by an authorized Freud service center. Inspect extension cords regularly and replace if damaged. Keep handles dry, clean, and free from oil or grease. Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.
- Check for damaged parts.** Before further use of the tool, a guard or other part that is damaged should be carefully inspected to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, mounting, and other conditions that may affect the operation of the tool. A guard or other part that is damaged should be properly repaired or replaced by an authorized Freud service center unless otherwise indicated elsewhere in this instruction manual.
- Use only accessories that are recommended by the manufacturer for your model.** Accessories that may be suitable for one tool may become hazardous when used with another tool.

5. Service

- Tool service must be performed only by an Freud authorized service center.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
- When servicing a tool, use only identical replacement parts. Follow instructions in the Maintenance section of this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury. Certain cleaning agents such as gasoline, carbon tetrachloride, ammonia, etc. may damage plastic parts.

BRIEF DESCRIPTION

The Freud JS104K biscuit joiner is intended solely for cutting slots for biscuits in solid wood and wood related materials such as MDF, particle board, plywood, etc. Any alternative use of this machine would be considered a failure to comply with the intended purpose of the machine. The manufacturer is not liable for any damage or injury arising from the improper use of this machine and the user assumes sole responsibility in this case.

ADDITIONAL SAFETY RULES FOR BISCUIT JOINERS

⚠ WARNING! Do not cut material containing amianthus/asbestos. Working with materials containing amianthus/asbestos and/or silica stones produces a dust which is harmful to health. Protect yourself from inhaling this dust, in compliance with regulations on accident prevention. Be sure that you use this machine in an uncluttered work environment.

- Avoid wearing loose fitting clothing while operating this tool.
- Always wear eye protection, hearing protection, dust mask, and anti-slip footwear when using this tool.
- Always unplug the power cord before making blade changes or adjustments to the tool.
- Be sure the blade is properly tightened before turning the machine on and make sure the flange fits in the arbor hole when installing the blade.
- Check the blade for cracks or damage before operating this tool. Replace cracked or damaged blades immediately.
- Always hold the machine firmly with two hands during operation.
- Allow the blade to achieve full speed before beginning the cutting operation.
- Keep hands away from the blade and the dust extraction port during operation.
- Be sure there are no foreign objects like nails in the wood before beginning the cutting operation.
- Place the work piece on a stable work surface and securely clamp the work piece with a clamp or vise.
- Be sure the power cord does not interfere with the blade and that it always leads away from the rear of the machine.
- Be careful when handling the blade as it is very sharp.
- Never operate this machine with the blade locked in the exposed position.
- Never reach your hands under the work piece while the machine is in use.
- This tool is not suitable for use in the rain.

⚠ WARNING: Some dust created by power sanding, sawing, grinding, drilling, and other construction or woodworking activities contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

DOUBLE INSULATION

To ensure safer operation of this tool, Freud has adopted a double insulation design. "Double Insulation" means that two physically separated insulation systems have been used to insulate the electrically conductive materials connected to the power supply from the outer frame handled by the operator.

To keep the double insulation system effective, follow these precautions:

- Be careful not to pierce the motor housing as this could damage the efficiency of the double insulation system.
- Only Freud Authorized Service Centers should disassemble or assemble this power tool, and only genuine Freud replacement parts should be installed.

EXTENSION CORDS

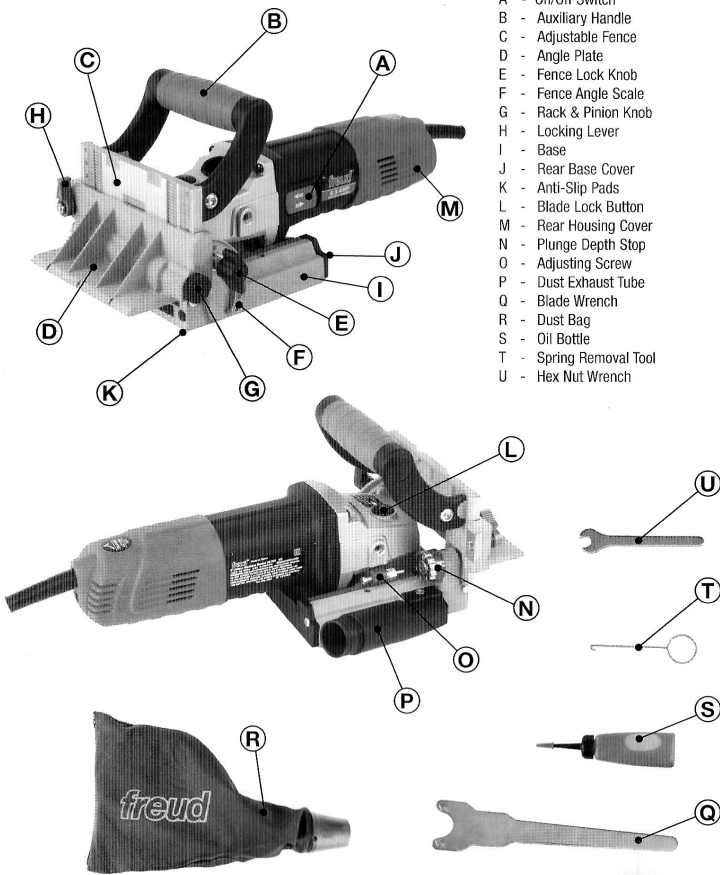
Make sure your extension cords are in good condition. Make sure you use an extension cord that is heavy enough to carry the current your tool requires. An undersized cord will cause a drop in voltage which creates a loss of power and could cause your tool to overheat. Please utilize the table below to identify the proper gauge cord for the tool you are using. Remember, the lower the number, the heavier gauge the cord. If you are unsure as to which gauge cord you need, use the next heavier gauge.

Recommended Gauge for Extension Cords				
Tool's Ampere Rating	Cord Length in Feet			
	25	50	100	150
	Cord Size in A.W.G.			
0-6	18	16	16	14
6-10	18	16	14	12
10-12	16	16	14	12
12-16	14	12	Not Recommended	Not Recommended

DESCRIPTIONS & SPECIFICATIONS

FUNCTIONAL DESCRIPTION

- A - On/Off Switch
- B - Auxiliary Handle
- C - Adjustable Fence
- D - Angle Plate
- E - Fence Lock Knob
- F - Fence Angle Scale
- G - Rack & Pinion Knob
- H - Locking Lever
- I - Base
- J - Rear Base Cover
- K - Anti-Slip Pads
- L - Blade Lock Button
- M - Rear Housing Cover
- N - Plunge Depth Stop
- O - Adjusting Screw
- P - Dust Exhaust Tube
- Q - Blade Wrench
- R - Dust Bag
- S - Oil Bottle
- T - Spring Removal Tool
- U - Hex Nut Wrench



SYMBOLS

Some of the following symbols may be used on your tool. Please study them and learn their meaning. Proper interpretation of these symbols will allow you to operate the tool better and safer.

Symbol	Name	Designation/Explanation
V	Volts	Voltage (Potential)
A	Amperes	Current
Hz	Hertz	Frequency (Cycles per Second)
W	Watts	Power
n_0	No Load Speed	Rotational speed at no load.
.../min	Revolutions or reciprocation per minute.	Revolutions, strokes, surface speed, orbits, etc. per minute.
	Class II Construction	Designates double insulated construction tools.
	Alternating Current	Type or a characteristic of current.
	Safety Alert	Precautions that involve your safety.

SPECIFICATIONS

Power Source	Single-Phase, 120V, AC 60Hz
Amps	6.5
Watts	710
No-Load Speed	9,000 RPM
Blade Diameter	3-15/16"
Blade Arbor Size	22mm
Biscuit Sizes	0, 10, 20, A, B, Max
Max. Depth of Cut	25/32" (20mm)
Approx. Tool Weight	6.8 lbs. (3.6 Kg)

ASSEMBLY & OPERATION

PRIOR TO OPERATION

Check Power Supply

1. Ensure that the power source to be utilized conforms to the power source requirements specified on the tool name plate. Ensure the receptacle being used accepts the plug tightly. If a faulty receptacle is used, it may cause overheating, resulting in a serious hazard.

Check Work Area

2. Confirm that the work site is placed under appropriate conditions conforming to precautions prescribed in the safety section of this manual.

Before Plugging in the Tool

3. Ensure that the power tool switch is in the OFF position to prevent the tool from accidental start-up, which could cause serious injury.

CHANGING THE BLADE

⚠ WARNING: Disconnect tool from power source before installing or removing the blade.

CAUTION: Be careful when removing or installing the blade as it is extremely sharp and could be hot after use. Improper care when handling blades can cause severe cuts and severe burns.

Changing the Blade – Fig 1

1. Remove the two screws in the Rear Base Cover (J). – Fig 1A

2. To expose the blade, pull back on the Rear Housing Cover (M) to remove the motor housing from the Base (I). – Fig 1B

3. To remove the blade, push down on the Blade Lock Button (L) and turn the blade until it locks into place. – Fig 1C

4. Insert the two pins on the Blade Wrench (Q) into the holes on the locking flange and turn counter clockwise to loosen the flange.

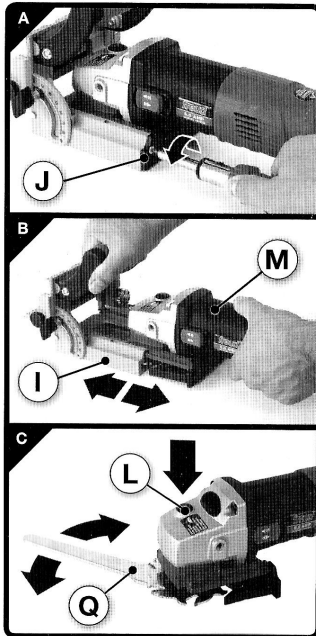
5. After removing the locking flange, remove the blade.

6. Install the new blade and locking flange.

7. To tighten the locking flange, depress the Blade Lock Button and use the Blade Wrench to turn the flange clockwise until the flange is tight.

8. Insert the motor housing back inside the base and install the two screws in the Rear Base Cover.

Fig. 1

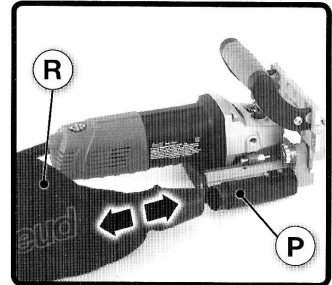


USING THE DUST BAG - Fig. 2

1. To attach the Dust Bag (R), fit it over the nozzle of the Dust Exhaust Tube (P) on the joiner.

2. To empty the dust bag, first turn off and disconnect the machine from its power source. Remove the dust bag from the exhaust tube and unzip the bag to empty the sawdust.

Fig. 2



ADJUSTING THE DEPTH OF CUT

The machine is preset to cut at 6 different depths.

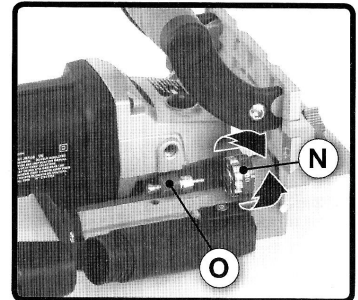
Setting on Plunge Depth Stop	0	10	20	A	B	Max
Biscuit Size	0	10	20	N/A	N/A	N/A
Depth of Cut	5/16" 8mm	13/32" 10.4mm	15/32" 11.9mm	1/2" 12.7mm	19/32" 15mm	25/32" 19.9mm
Width of Cut	2 5/32" 54.8mm	2 3/8" 60.4mm	2 9/16" 65.2mm	2 21/32" 67.5mm	2 13/16" 71.4mm	2 29/32" 73.8mm

Using the Plunge Depth Stop – Fig 3

1. To select the desired depth of cut simply rotate the Plunge Depth Stop (N) until the desired setting corresponds to the red indicator line.

2. Fine adjustments can be made to the depth of cut by turning the Adjusting Screw (O). First unlock the hex nut on the adjusting screw then turn the screw left to increase depth of cut and right to decrease depth of cut. Remember to tighten hex nut once the screw is adjusted.

Fig. 3



FENCE ADJUSTMENTS

Using the Adjustable Fence – Fig 4

1. The Adjustable Fence (C) can be adjusted from 0° to 90° and has positive stops at 0°, 45°, and 90°.
2. To adjust the fence, first loosen the Fence Lock Knob (E).
3. Tilt the Adjustable Fence until the red indicator line corresponds to the desired angle on the Fence Angle Scale (F) and tighten the Fence Lock Knob.

Using the Angle Plate – Fig 5

1. The Angle Plate (D) can be moved up and down to adjust the blade to the thickness of the wood.
2. To move the Angle Plate, first unlock the Locking Lever (H).

3. Raise and lower the Angle Plate by turning the Rack & Pinion Knob (G) clockwise to raise the Angle Plate and counter clockwise to lower the plate.

4. Once the Angle Plate reaches the desired setting lock the Locking Lever.

NOTE: In some applications it will be necessary to remove the angle plate. To remove the plate, loosen the locking lever and rotate the rack & pinion knob clockwise until the angle plate clears the top of the adjustable fence.

STARTING THE TOOL – Fig 6

⚠ WARNING: Make sure that the voltage from the power supply matches the voltage specified on the tool. Before plugging in the tool ensure the blade is properly installed and tightened.

1. Plug the tool in with the switch in the "OFF" position.
2. Hold the machine firmly by the Auxiliary Handle (B) and Rear Housing Cover (M).
3. Turn the machine "ON" by pushing the On/Off switch (A) towards the rear of the machine.
4. Turn the machine "OFF" by pushing the On/Off switch (A) towards the front of the machine.

Fig. 4

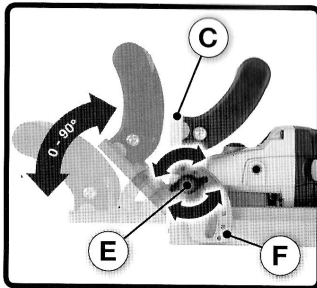


Fig. 5

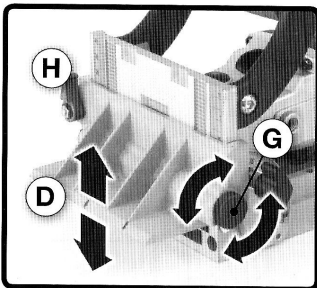
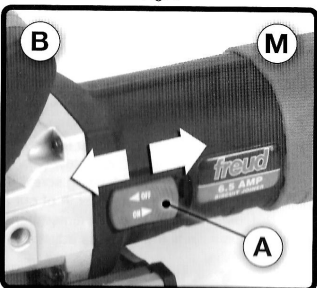


Fig. 6



MAKING A CUT – Fig 7

1. With the machine unplugged and the switch in the "Off" position, make sure the blade and all adjustment knobs are tight.
2. Make sure the workpiece is securely clamped to a work surface.
3. Plug in the machine.
4. Align the joiner's center mark with the layout mark on the workpiece.
5. With both hands firmly holding the auxiliary handle and rear housing cover turn on the machine and allow the blade to come up to full speed.
6. With the machine squarely positioned on the workpiece, plunge the blade into the workpiece until the machine bottoms out on the plunge depth stop.
7. Retract the blade from the cut and turn the machine off.

MACHINE MAINTENANCE – Fig 8

1. From time to time, a small amount of oil should be placed in each of the tracks of the Base (I) to keep the mechanism sliding properly.
2. Insert the nozzle of the included Oil Bottle (S) into the holes on each side of the base and squeeze out two or three drops of oil.
3. During heavy use it may be necessary to lubricate the machine a couple of times a week, but not so often that the oil builds up too heavily on the sliding assembly.

Fig. 7

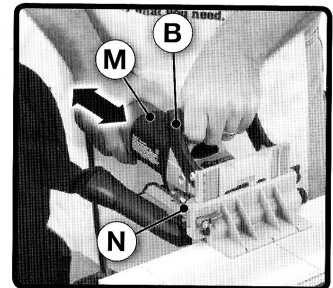
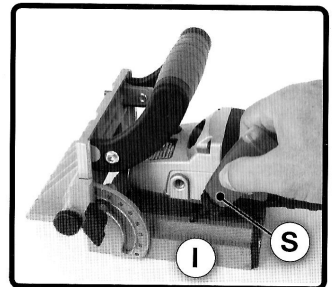


Fig. 8



Applications

EDGE TO EDGE JOINT – Fig 9

This is a very simple joint and is commonly used when gluing up boards for projects such as table tops.

1. Lay out the workpieces exactly like they will be assembled.
2. Use a straight edge to mark layout marks on each workpiece where a biscuit will be inserted. Be sure to locate biscuits at least 2" from the end of the workpiece and space each biscuit about 4"-6" apart. –Fig 9A
3. Set the plunge depth setting on the biscuit joiner to match the biscuits being used and set the angle fence on the biscuit joiner to the proper height.
4. Clamp the workpiece to a stable work surface and align the center mark on the joiner to the first layout mark. Turn on the machine and make the first plunge cut. Retract the plunge and turn off the machine. Slide the machine to the second layout mark and repeat the process. –Fig 9B
5. Add glue and biscuits to each slot, assemble, and clamp until the glue is dry.

NOTE: This machine is designed to cut into the center of a $\frac{3}{4}$ " board without the use of the angle plate. In applications such as edge to edge joints where there are no mitered edges, the joiner and material to be cut can sit flat on the work surface when making the cuts.

T-JOINT – Fig 10

This joint is commonly used in bookshelf applications to attach the shelf to the side of the case. In this application remove the angle plate from the machine.

1. Align the workpieces on a work surface in the manner that they will be joined.
2. Lightly scribe a line on the frame where the top of the shelf will be positioned once it is attached. Scribe layout lines indicating the biscuit locations on the shelf board. –Fig 10A
3. Clamp the shelf board to the frame along the line scribed with the biscuit layout lines facing up.

Fig. 9

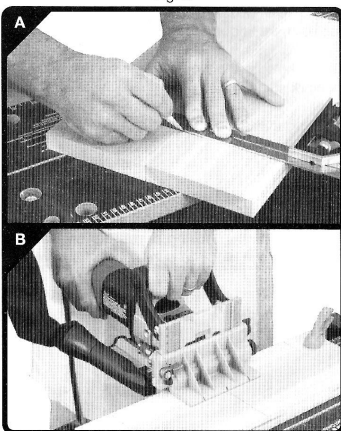
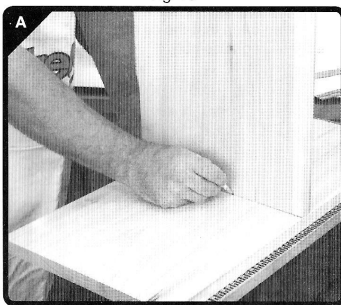


Fig. 10



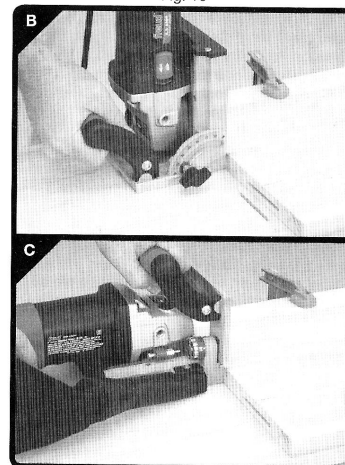
4. Select the proper biscuit size on your joiner and remove the angle plate.

5. Align the joiner to make the vertical cuts by registering the centerline on the bottom side of the base with your layout marks. –Fig 10B

6. Align the joiner to make the horizontal cuts by using the center mark on the top side of the base. –Fig 10C

7. Make the cuts, add glue and biscuits, assemble, and clamp until the glue is dry.

Fig. 10

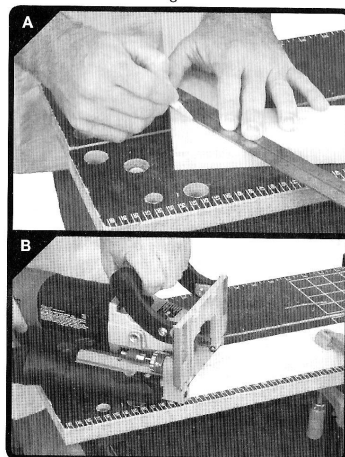


FRAME JOINT – Fig 11

Frame joints are very simple yet strong joints and are very common in applications such as picture frames and door and window moldings.

1. Layout the workpieces on a work surface exactly as they are to be joined.
2. Scribe layout lines across each piece at the location of the biscuit. – Fig 11A
3. Select the proper biscuit size on the plunge depth stop and adjust the angle plate to the proper height.
4. Clamp the workpiece to a work surface and position the joiner with the layout line. Turn on the machine and make the cut. – Fig 11B
5. Repeat step 4 on the second workpiece.
6. Insert glue and biscuits, assemble, and clamp until the glue is dry.

Fig. 11



EDGE MITER JOINT

Edge miter joints are strong joints commonly used for making boxes and applications such as multi-sided surrounds. There are two types joining applications for edge miter joints:

- 1) Aligning on the outside of the joint and
- 2) Aligning on the inside of the joint.

Outside Alignment - 90° joint only – **Fig 12**

1. Lay out the workpieces on a work surface exactly as they are to be joined.

2. Mark layout lines on the outside of the joint on both workpieces. – **Fig 12A**

3. Set the height of the angle plate so the cut will enter the workpiece where the material is thicker.

4. Select a biscuit size that will not require the joiner to cut completely through the joint.

5. Clamp the workpiece vertically and align the outside of the joint with the 45° notch cut on the underside of the angle plate. Make the cut. – **Fig 12B**

6. Repeat the cut on the second workpiece.

7. Insert glue and biscuits, assemble, and clamp until the glue is dry.

Inside Alignment - 90° joint – **Fig 13**

1. Lay out the workpieces on a work surface exactly as they are to be joined.

2. Mark layout lines on the inside of the joint on both workpieces. – **Fig 13A**

3. Remove the angle plate from the joiner and set the adjustable fence to the 45° setting.

4. Select a biscuit size that will not require the joiner to cut completely through the joint

5. Clamp the workpiece to a work surface with the mitered edge facing up.

Fig. 12

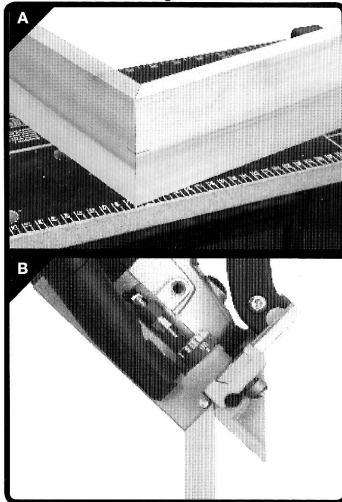
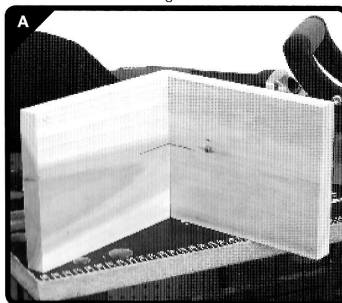


Fig. 13



6. Align the joiner as shown in fig 12 and make the cut. – **Fig 13B**

7. Repeat the cut on the second workpiece.

8. Insert glue and biscuits, assemble, and clamp until the glue is dry.

Use this chart for the proper fence setting for joints other than 90°.

# Sides	Fence Angle for Inside Alignment
4	90°
5	81°
6	75°
8	67.5°

CORNER JOINT – Fig 14

A corner joint is a common joining technique where a T-joint is used for applications such as boxes and drawers.

1. Lay out the workpieces on a work surface exactly as they are to be joined.

2. Mark layout lines across the face of one board and outward edge of the second board. – **Fig 14A**

3. Select the proper biscuit size on the plunge depth stop and set the angle fence to the appropriate height.

4. For the edge cut, clamp the workpiece to a work surface, align the center mark of the joiner to the layout line and make the cut. – **Fig 14B**

5. For the face cut, clamp the workpiece vertically and make the cut as shown in **Fig 14C**. Do not change the height of the angle plate from the edge cut to the face cut.

6. Insert glue and biscuits, assemble, and clamp until the glue is dry.

Fig. 13B

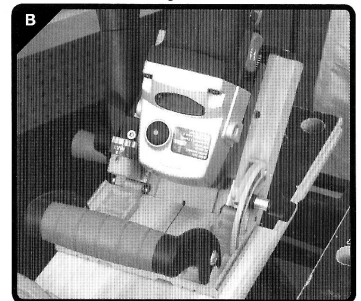
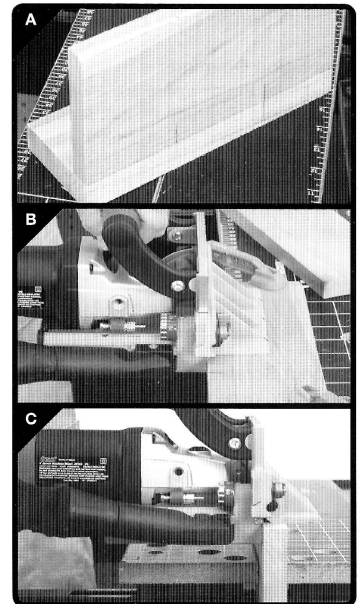


Fig. 14



MAINTENANCE & INSPECTION

Service

It is recommended that all service on your Freud tool be performed by an Authorized Freud service center. Service by unauthorized service personnel may result in misplaced internal components resulting in risk of tool malfunction and personal injury to the tool user.

Power Cord

Check that the power cord is in good condition. If it is not, have it replaced immediately at a Freud Authorized service center.

Tool Lubrication

All power tools require care and attention. Every couple of years, we recommend leaving the tool with an authorized Freud service center for a general cleaning and lubrication.

Ventilation Openings

Make sure the air vents are always kept clean and free of obstacles. If clogged, vacuum out obstruction. It is recommended that you blow off the entire tool with compressed air after each use.

Bearings

Bearings that become very noisy should be replaced at once to avoid overheating or motor failure.

Inspect Accessories

Regularly inspect your blades. Using worn accessories will diminish the efficiency of the work and could damage the tool's motor.

Inspect Screws

Regularly inspect all screws in your power tool and make sure they are properly tightened. Loose screws should be retightened immediately.

SERVICE LOCATIONS

To locate a Freud Authorized Service Center near you, call: **1-800-334-4107**

Or visit our web site at: www.freudtools.com

In Canada call: **1-800-263-7016**

Or visit the Canadian site for a full list of service centres at: www.freud.ca

ACCESSORIES

Standard Accessories

- Blade wrench
- Dust Bag
- Biscuits
- Oil Bottle
- Spring Removal Tool
- Wrench
- Owner's Manual
- Carrying Case

NORTH AMERICAN POWER TOOL WARRANTY

90 DAY MONEY BACK GUARANTEE

If you are not completely satisfied with your Freud power tool for any reason you may return the tool (in its original packaging and complete with all accessories) to the place of purchase with proof of purchase (e.g. dated sales receipt) for a full refund, within the first 90 days of ownership.

FREUD LIMITED FIVE YEAR POWER TOOL WARRANTY

Freud warrants to the original consumer purchaser that each new Freud power tool shall be free from defects in material and workmanship for a period of five (5) years from the purchase date. When warranty service is requested, proof of purchase (e.g. dated sales receipt) is required. Should the power tool fail within ninety (90) days from the date of purchase, it will be repaired or replaced AT THE CUSTOMER'S DISCRETION, subject to the Guidelines below. Thereafter, upon verification of failure or malfunction, at its option, Freud will repair or replace the power tool, subject to the Guidelines below. This warranty does not cover damage incurred from repair or attempted repair by anyone other than Freud authorized personnel, normal wear and tear, abuse, lack of maintenance, or accidents.

FREUD WARRANTY GUIDELINES

1. In the event of failure or malfunction, return the product, properly packaged and postage prepaid, to Freud at the address listed below or to an authorized Freud tool service station. See back of price list for authorized repair dealers. You may also contact Freud at the numbers below for instructions on returns and technical advice.
2. All implied warranties for Freud's power tools (INCLUDING MERCHANTABILITY AND FITNESS FOR PARTICULAR PURPOSE) are limited to the period of five years from the purchase date. Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.
3. A warranty claim shall be limited to repair or replacement as stated in Freud's Limited Tooling Warranty and Freud's Limited Power Tool Warranty, and in no event shall Freud be liable for any other direct, indirect, incidental or consequential damages, costs or expenses. INCIDENTAL AND CONSEQUENTIAL DAMAGES ARE EXCLUDED UNDER ALL WARRANTIES. Some States do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.
4. Freud warranties give you specific legal rights, and you may also have other rights which vary from State to State.
5. Freud warranties shall not be deemed to have failed their essential purpose while Freud is willing to repair or replace defective products.
6. Freud assumes no liability for defects or damage caused by abuse or misuse of any product or unauthorized service of any product. The product must have been used for its recommended purpose and not modified by sharpening or other changes. Normal wear and tear is not covered under Freud warranties.
7. Any action for breach of warranty must be commenced within one year after the accrual of the cause of action.
8. All warranties are expressly limited to the original consumer purchaser. All warranties and other rights of the purchaser shall be governed under laws of the State of North Carolina.

To obtain service under Freud warranties, contact an authorized repair station or send your tool via UPS or Federal Express to:

Freud America, Inc.
(Attn: Customer Service)
Post Office Box 7187
High Point, North Carolina 27263
(336) 434-3171

Freud Canada
7450 Pacific Circle
Mississauga, Ontario
CANADA L5T 2A3
(905) 670-1025

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