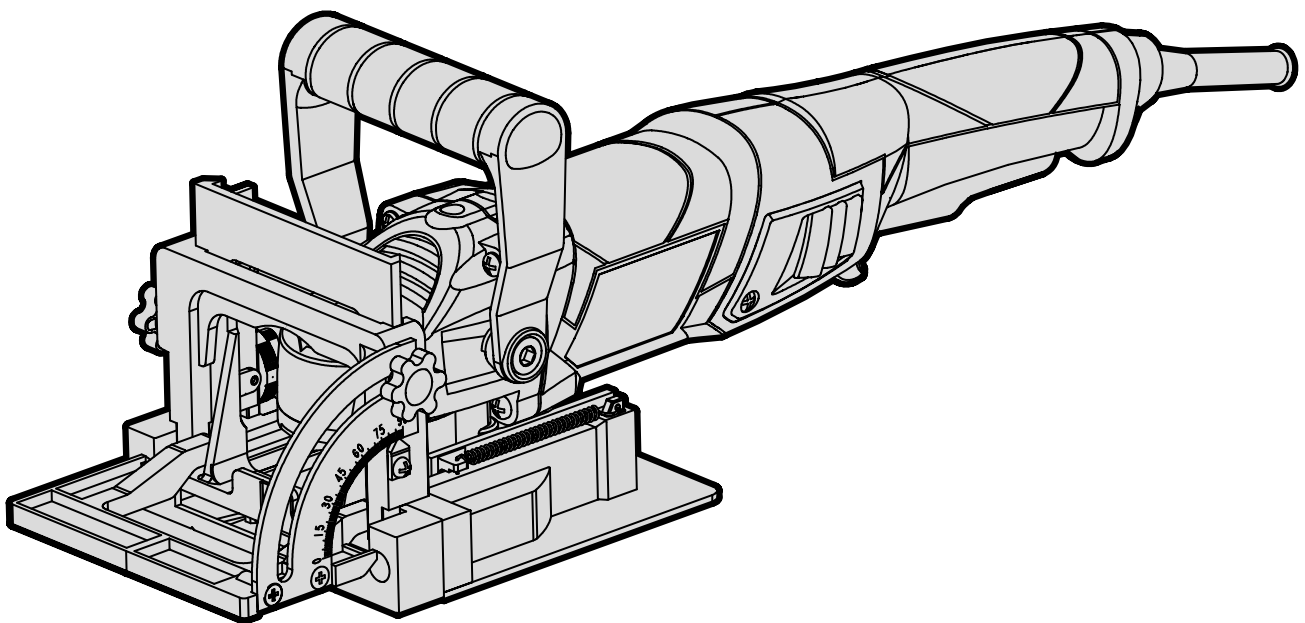




MODEL JN8504

8.5-AMP BISCUIT JOINER

Instruction Manual



NEED HELP? CONTACT US!

Have product questions? Need technical support? Please feel free to contact us:



1-800-232-1195 (M-F 8AM-5PM CST)



TECHSUPPORT@WENPRODUCTS.COM

IMPORTANT: Your new tool has been engineered and manufactured to WEN's highest standards for dependability, ease of operation, and operator safety. When properly cared for, this product will supply you years of rugged, trouble-free performance. Pay close attention to the rules for safe operation, warnings, and cautions. If you use your tool properly and for its intended purpose, you will enjoy years of safe, reliable service.

For replacement parts and the most up-to-date instruction manuals, visit ***WENPRODUCTS.COM***

CONTENTS

WELCOME	3
Introduction	3
Specifications.....	3
SAFETY	4
General Safety Rules	4
Biscuit Joiner Safety Warnings	6
Electrical Information.....	8
BEFORE OPERATING	9
Unpacking & Packing List	9
Know Your Biscuit Joiner	10
Assembly & Adjustments.....	11
OPERATION & MAINTENANCE	13
Operation	13
Maintenance.....	15
Troubleshooting Guide.....	16
Exploded View & Parts List.....	17
Warranty Statement	19

To purchase replacement blades and accessories for your tool, visit ***WENPRODUCTS.COM***


#0 FSC-Certified Birch Wood Biscuits for Woodworking, 100 Pack (**Model No. JN100B**)

#10 FSC-Certified Birch Wood Biscuits for Woodworking, 100 Pack (**Model No. JN111B**)

#20 FSC-Certified Birch Wood Biscuits for Woodworking, 100 Pack (**Model No. JN122B**)

INTRODUCTION

Thanks for purchasing the WEN Biscuit Joiner. We know you are excited to put your tool to work, but first, please take a moment to read through the manual. Safe operation of this tool requires that you read and understand this operator's manual and all the labels affixed to the tool. This manual provides information regarding potential safety concerns, as well as helpful assembly and operating instructions for your tool.

 Indicates danger, warning, or caution. The safety symbols and the explanations with them deserve your careful attention and understanding. Always follow the safety precautions to reduce the risk of fire, electric shock or personal injury. However, please note that these instructions and warnings are not substitutes for proper accident prevention measures.

NOTE: The following safety information is not meant to cover all possible conditions and situations that may occur. WEN reserves the right to change this product and specifications at any time without prior notice.

At WEN, we are continuously improving our products. If you find that your tool does not exactly match this manual, please visit wenproducts.com for the most up-to-date manual or contact our customer service at **1-800-232-1195**.

Keep this manual available to all users during the entire life of the tool and review it frequently to maximize safety for both yourself and others.

SPECIFICATIONS

Model Number	JN8504
Motor	120V AC, 60 Hz, 8.5A
Blade Speed	13,000 RPM
Blade Diameter	4 in. (100mm)
Blade Arbor Size	7/8 in. (22mm)

GENERAL SAFETY RULES

 **WARNING!** Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Safety is a combination of common sense, staying alert and knowing how your item works. The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE SAFETY INSTRUCTIONS.

WORK AREA SAFETY

- 1. Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- 2. 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 or fumes.
- 3. Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

- 1. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- 2. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- 3. Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- 4. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- 5. When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.

- 6. If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of a GFCI reduces the risk of electric shock.

PERSONAL SAFETY

- 1. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power 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.
- 2. Use personal protective equipment. Always wear eye protection.** Protective equipment such as a respiratory mask, non-skid safety shoes and hearing protection used for appropriate conditions will reduce the risk of personal injury.
- 3. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energizing power tools that have the switch on invites accidents.
- 4. Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- 5. Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- 6. Dress properly. Do not wear loose clothing or jewelry. Keep your hair and clothing away from moving parts.** Loose clothes, jewelry or long hair can be caught in moving parts.

GENERAL SAFETY RULES

⚠ WARNING! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Safety is a combination of common sense, staying alert and knowing how your item works. The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

SAVE THESE SAFETY INSTRUCTIONS.

7. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

POWER TOOL USE AND CARE

1. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

2. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

3. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

4. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

5. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

6. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

7. Use the power tool, accessories and tool bits, etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

8. Use clamps to secure your workpiece to a stable surface. Holding a workpiece by hand or using your body to support it may lead to loss of control.

9. KEEP GUARDS IN PLACE and in working order.

SERVICE

1. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.

CALIFORNIA PROPOSITION 65 WARNING

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals, including lead, known to the State of California to cause cancer, birth defects, or other reproductive harm. Wash hands after handling. Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks, cement, and other masonry products.
- Arsenic and chromium from chemically treated lumber.

Your risk from these exposures varies depending on how often you do this type of work. To reduce your exposure to these chemicals, work in a well-ventilated area with approved safety equipment such as dust masks specially designed to filter out microscopic particles.

BISCUIT JOINER SAFETY WARNINGS

⚠ WARNING! Do not let comfort or familiarity with the product replace strict adherence to product safety rules. Failure to follow the safety instructions may result in serious personal injury.

BISCUIT JOINER SAFETY

1. TOOL PURPOSE

This biscuit joiner is designed to create appropriately sized slots in wood to allow easy joining with biscuits. Using the machine for any other purpose for which it is not designed may result in serious injuries, machine damage, and voiding of the warranty.

2. PERSONAL SAFETY.

- Always wear ANSI Z87.1-approved glasses with side shields, hearing protection and a dust mask.
- DO NOT wear loose clothing or jewelry, as they might get drawn in by the tool. Tie back long hair.
- DO NOT wear gloves while operating this machine.

3. ELECTRIC CORDS.

Keep cords away from heat, oil, sharp edges, and moving parts of the tool. Have an electrician replace or repair damaged or worn cords immediately.

4. TOOL INSPECTION.

Before operation, check the tool for any damaged or missing parts. Do not use the tool if any part is missing or damaged. Do not use the tool if the power switch is faulty, the plug or cable is damaged, or the tool produces sparks, smoke, or unpleasant odors (you may smell brushes wearing down for a few minutes as the tool breaks in during the first use, that is normal). Make sure all adjustments are correct and all connections are tight.

5. SECURING THE WORKPIECE.

Use clamps to secure the workpiece whenever possible to prevent wobble, damage to the workpiece, and personal injury. Never hold a piece being cut in your hands or across your legs. It is important to support the work properly to minimize body exposure, blade binding, or loss of control.

6. STANDING POSITION.

Make sure to stand in a stable and sturdy stance with a tight grip on the joiner. Kickback could cause the joiner to jump when in use.

7. STARTING THE TOOL.

Always start the joiner before the blade is in contact with the workpiece. Let the blade reach full speed before using the tool. The reaction to the torque as the motor accelerates to full speed may cause the tool to kick back.

8. KEEP HANDS AWAY. Keep hands away from the cutting area and the blade. Do not reach underneath the workpiece. The blade guard cannot protect you from the blade protruding from the underside of the workpiece. Do not attempt to remove cut material when the blade is moving.

9. DURING OPERATION.

Do not apply excessive pressure to the tool. Overstressing the tool may cause kickback and damage the tool and accessories. Use special care when working corners, sharp edges etc.

10. TURNING OFF THE TOOL.

The blade coasts after the joiner is turned off. Wait until the blade comes to a full stop before reaching for loose materials or setting the tool down.


11. REPLACING THE JOINER BLADE.

Check the blade for chipped or broken teeth. Do not use dull or damaged blades. Unshaped or improperly set blades produce narrow kerf, causing excessive friction, blade binding, and kickback. Always use blades with correct size and arbor holes. Blades that do not match the mounting hardware of the joiner will run eccentrically, causing a loss of control.

13. MAKING ADJUSTMENTS.

Always turn off and unplug the joiner before making adjustments or changing attachments. Accidental start-ups may occur if the saw is plugged in during an accessory change. Develop a periodic maintenance schedule for your tool. Always make sure the power switch is in the OFF position and the machine is unplugged when doing any cleaning, assembly, setup operations, or when not in use.

BISCUIT JOINER SAFETY WARNINGS

 **WARNING!** Do not let comfort or familiarity with the product replace strict adherence to product safety rules. Failure to follow the safety instructions may result in serious personal injury.

14. REPLACEMENTS.

Should any component of your joiner be missing/damaged or fail in any way, shut off the switch and remove the plug from power supply outlet. Replace the missing, damaged, or failed parts using only identical replacement parts before resuming operation.

REDUCING KICKBACK

Kickback is a sudden reaction to a pinched, bound or misaligned joiner blade, causing an uncontrolled joiner to lift up and out of the work piece toward the operator. When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator. If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back towards the operator. Take the proper precautions below to reduce the risk of kickback.

- Maintain a firm grip on the joiner and position your body and arm in a way that allows you to resist kickback forces. Kickback forces can be controlled by the operator, if proper precautions are taken.

- When a blade is binding (or when interrupting a cut for any reason), release the trigger and hold the joiner motionless in the material until the blade comes to a complete stop. Never attempt to remove the joiner from the work or pull the joiner backward while the blade is in motion or kickback may occur.

- Do not use dull or damaged blades. Unshaped or improperly set blades produce narrow kerf, causing excessive friction, blade binding, and kickback.

- Blade depth and angle adjusting locking levers must be tight and secure before making a cut. If the blade adjustment shifts while cutting, it will cause binding and kickback.

These safety instructions can't possibly warn of every scenario that may arise with this tool, so always make sure to stay alert and use common sense during operation.

ELECTRICAL INFORMATION

GROUNDING INSTRUCTIONS

In the event of a malfunction or breakdown, grounding provides the path of least resistance for an electric current and reduces the risk of electric shock. This tool is equipped with an electric cord that has an equipment grounding conductor and a grounding plug. The plug **MUST** be plugged into a matching outlet that is properly installed and grounded in accordance with ALL local codes and ordinances.

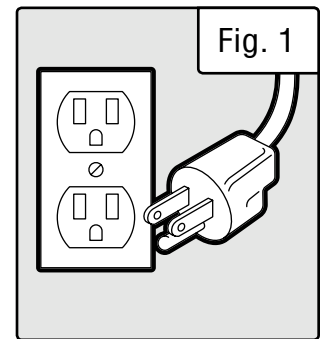
1. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a licensed electrician.

2. Improper connection of the equipment grounding conductor can result in electric shock. The conductor with the green insulation (with or without yellow stripes) is the equipment grounding conductor. If repair or replacement of the electric cord or plug is necessary, **DO NOT** connect the equipment grounding conductor to a live terminal.

3. Check with a licensed electrician or service personnel if you do not completely understand the grounding instructions or whether the tool is properly grounded.

4. Use only three-wire extension cords that have three-pronged plugs and outlets that accept the tool's plug. Repair or replace a damaged or worn cord immediately.

CAUTION! In all cases, make certain the outlet in question is properly grounded. If you are not sure, have a licensed electrician check the outlet.



GUIDELINES AND RECOMMENDATIONS FOR EXTENSION CORDS

When using an extension cord, be sure to use one heavy enough to carry the current your product will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The table below shows the correct size to be used according to cord length and ampere rating. When in doubt, use a heavier cord. The smaller the gauge number, the heavier the cord.

AMPERAGE	REQUIRED GAUGE FOR EXTENSION CORDS			
	25 ft.	50 ft.	100 ft.	150 ft.
8.5A	18 gauge	16 gauge	14 gauge	12 gauge

1. Examine extension cord before use. Make sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.

2. Do not abuse extension cord. Do not pull on cord to disconnect from receptacle; always disconnect by pulling on plug. Disconnect the extension cord from the receptacle before disconnecting the product from the extension cord. Protect your extension cords from sharp objects, excessive heat and damp/wet areas.

3. Use a separate electrical circuit for your tool. This circuit must not be less than a 12-gauge wire and should be protected with a 15A time-delayed fuse. Before connecting the motor to the power line, make sure the switch is in the OFF position and the electric current is rated the same as the current stamped on the motor nameplate. Running at a lower voltage will damage the motor.

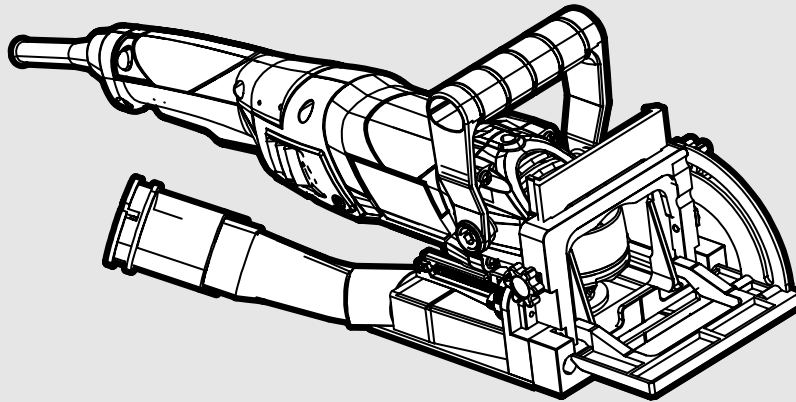
UNPACKING & PACKING LIST

UNPACKING

With the help of a friend or trustworthy foe, such as one of your in-laws, carefully remove the biscuit joiner from the packaging and place it on a sturdy, flat surface. Make sure to take out all contents and accessories. Do not discard the packaging until everything is removed. Check the packing list below to make sure you have all of the parts and accessories. If any part is missing or broken, please contact customer service at **1-800-232-1195** (M-F 8-5 CST), or email techsupport@wenproducts.com.

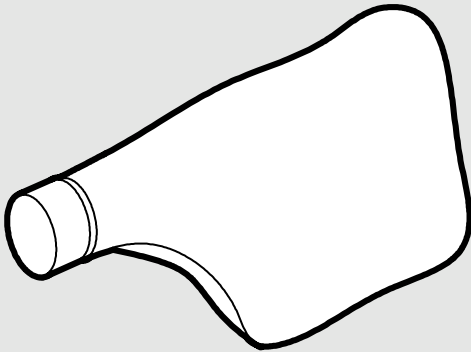
PACKING LIST

Components

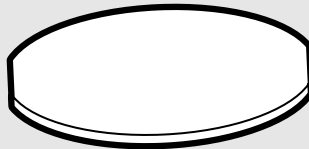


Biscuit Joiner

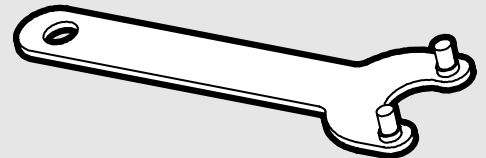
Accessories



Dust Bag (1)



#20 Biscuits (24)



Spanner Wrench (1)



#0 Biscuits (10)



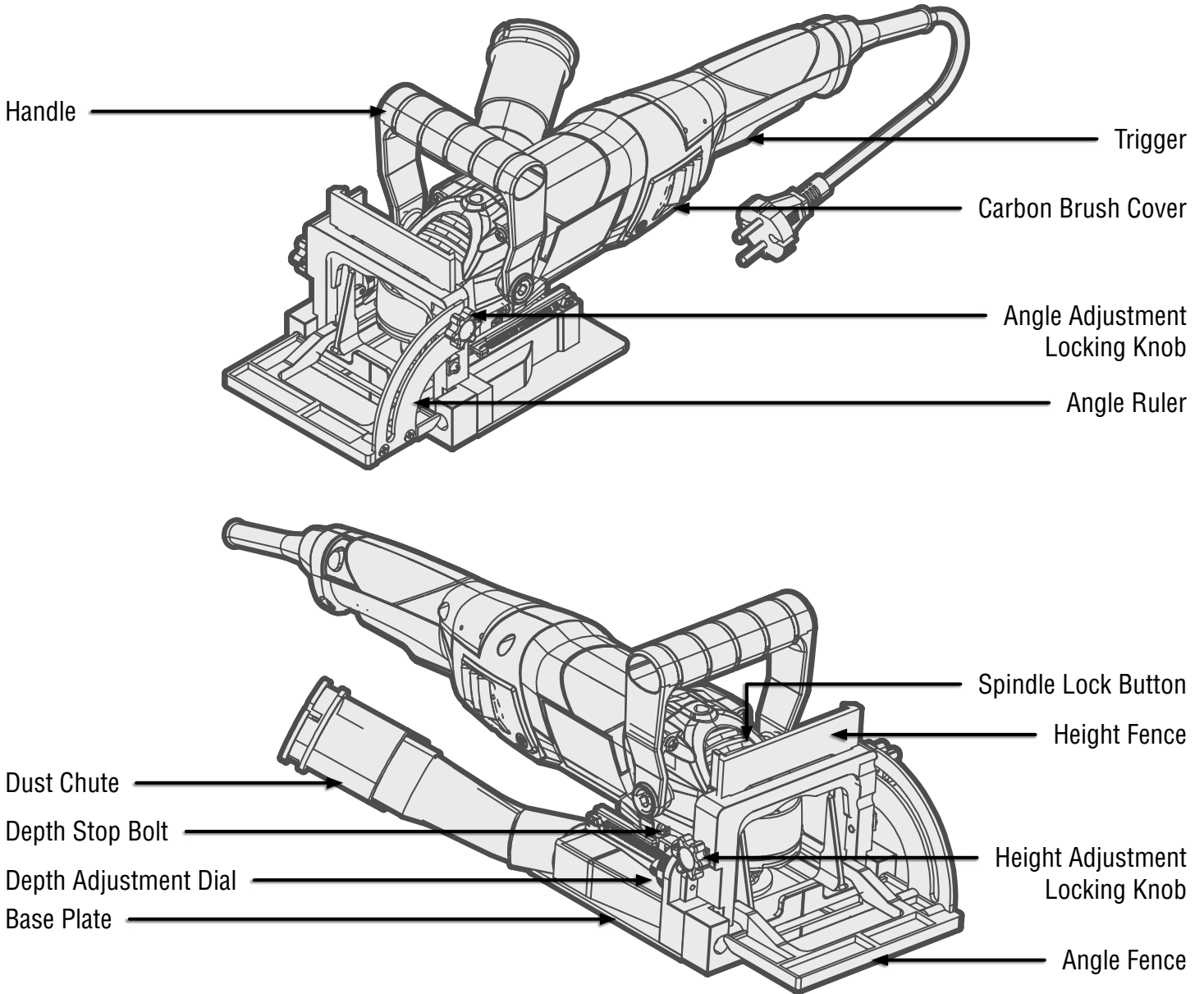
#10 Biscuits (16)

***Gravy Not Included**

KNOW YOUR BISCUIT JOINER

TOOL PURPOSE

This biscuit joiner is designed to create appropriately sized slots in wood to allow easy joining with biscuits. Refer to the following diagrams to become familiarized with all the parts and controls of your biscuit joiner. The components will be referred to later in the manual for assembly and operation instructions.



ASSEMBLY & ADJUSTMENTS

SETTING THE CUTTING DEPTH

The depth adjustment dial helps to control the depth of cut for different size biscuits. The dial has depths that correlate to biscuit sizes #0, #10, and #20 (see pages 13 and 14 for detailed biscuit information) along with a setting “M” that correlates to the deepest cut the biscuit joiner can cut.

It is recommended to calibrate the depth of cut initially and every few months, depending on frequency of use. To calibrate the depth of cut, carry out the following steps:

1. Rotate the depth adjustment dial (Fig. 2 - 1) to the desired setting that correlates to the biscuit size that will be used.

2. Measure the depth of the cut by one of the following methods:

a) Press the fence assembly (Fig. 3 - 1) back as far as possible, being very careful to avoid the blade. Measure the distance that the blade protrudes from the fence. This distance should be slightly more than half the width of the correlated biscuit.

b) Make a test cut in a piece of scrap wood. Try to fit the correlated biscuit into the slot and determine if the slot is deep enough.

3. If the depth of cut is incorrect, loosen the depth stop nut on the depth bolt (Fig. 4 - 1) and thread the bolt to the desired depth. Tightening the depth bolt will make the cut shallower, whereas loosening the bolt will make the cut deeper.

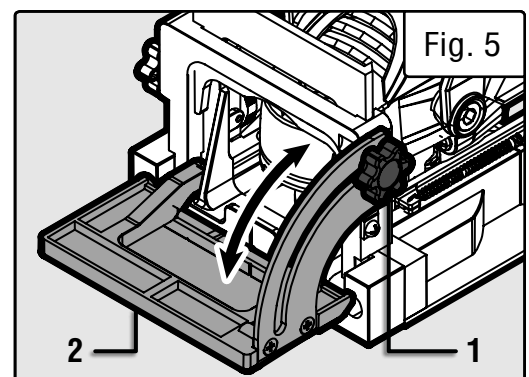
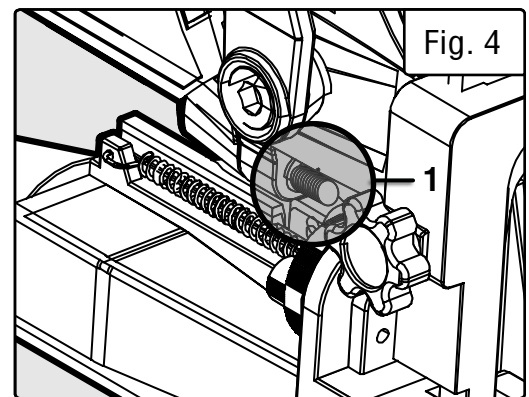
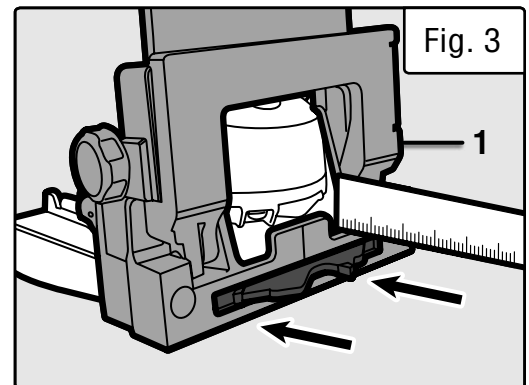
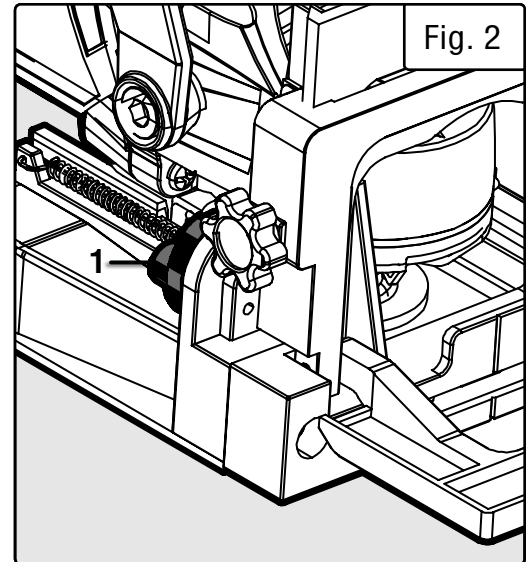
4. Recheck the depth of cut by repeating step 2. If the depth of cut is accurate, tighten the depth stop nut against the stop to secure the position of the depth bolt.

SETTING THE FENCE ANGLE

The angle fence can be adjusted to account for bevel angles on the workpiece. To adjust the fence angle:

1. Loosen angle lock knob (Fig. 5 - 1) and rotate angle fence (Fig. 5 - 2) to the desired angle.

2. Tighten the angle lock knob. Check that the angle fence is secure before cutting into the workpiece



ASSEMBLY & ADJUSTMENTS

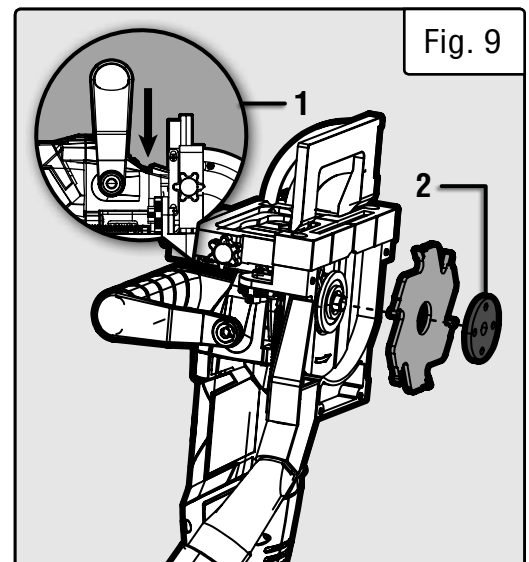
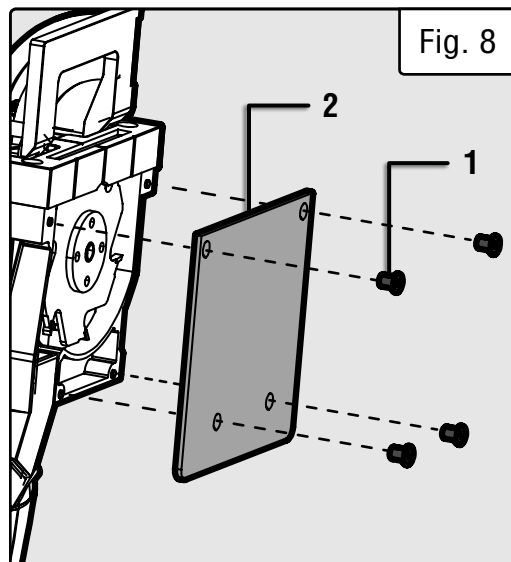
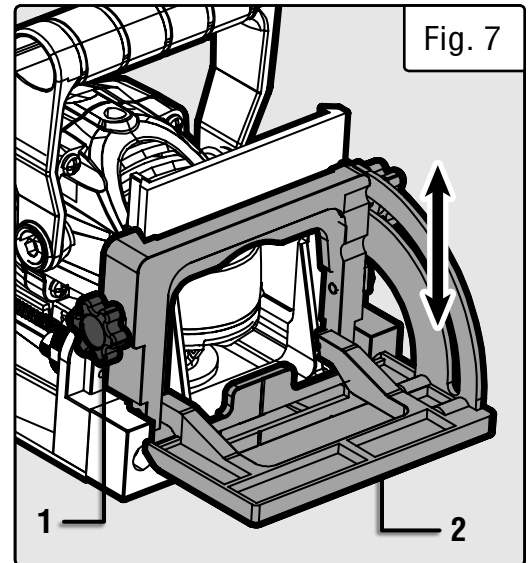
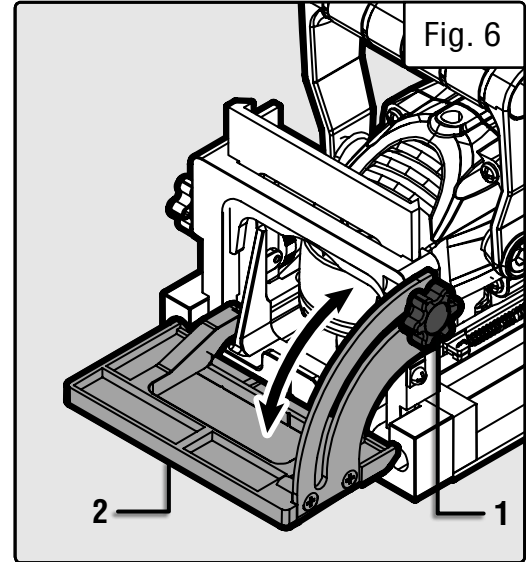
SETTING THE HEIGHT OF CUT

The height fence allows the biscuit slot to be cut at different heights. The height of the cut is set by adjusting the angle fence and the height fence.

1. Loosen the angle lock knob (Fig. 6 - 1) and rotate the angle fence (Fig. 6 - 2) to 90° or the desired cutting angle.
2. Loosen the height locking knob (Fig. 7 - 1) to raise or lower the fence assembly (Fig. 7 - 2) to the desired height.
3. Tighten the height lock knob. Check that the fence assembly is secure before cutting into the workpiece.

CHANGING THE BLADE

1. Remove the four M4x6 screws (Fig. 8 - 1) and base plate (Fig. 8 - 2) from the underside of the unit.
2. Lock the blade by pressing the spindle lock button (Fig. 9 - 1) on the top of the unit and rotating the blade by hand until the spindle lock button engages and the blade stops spinning. Use the spanner wrench to loosen (counter-clockwise) and remove the outer flange (Fig. 9 - 2).
3. Replace the new blade on the spindle. Make sure to check that the blade teeth are in the proper direction by checking the blade against the arrows molded into the slide plate.
4. Replace the outer flange onto the spindle. Lock the blade by pressing the spindle lock button and tighten the outer flange with the spanner wrench.
5. Secure the base plate with the four screws.



OPERATION

MAKING A BISCUIT SLOT

1. Ensure the workpiece is secure and clamped down.
2. Adjust cutting depth, fence angle, and height of cut (see pages 11 and 12).
3. Plug the biscuit Joiner into a proper outlet.
4. Align the cutting guides on the fence and slide plate with the marks on the workpiece (Fig. 10).

NOTE: It is recommended to mark the center of the desired biscuit slot on a face that will be visible during the cutting operation. Align this center mark with the center indent on the slide plate.

5. Turn on the biscuit joiner. Make sure the blade reaches full speed before making any cuts

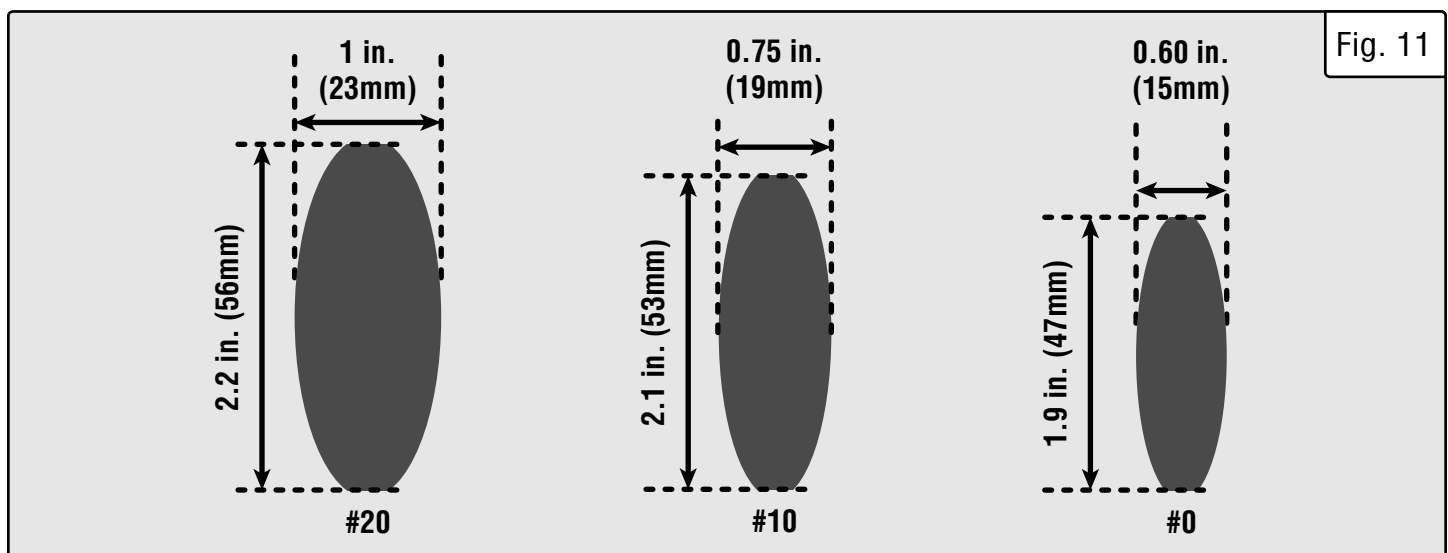
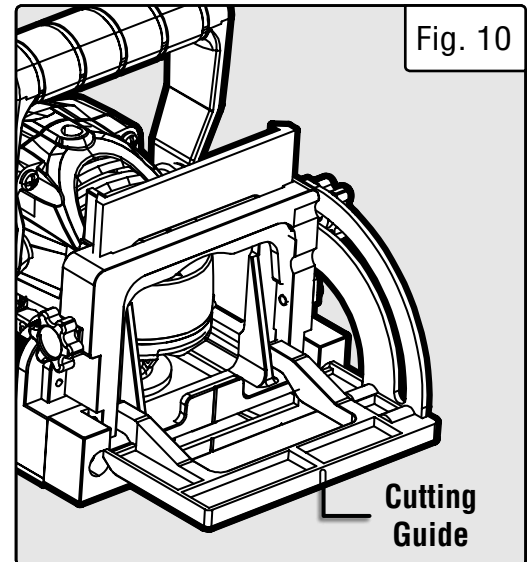
NOTE: This biscuit Joiner is equipped with a safety trigger. First press the trigger lock and then the trigger in order to turn the tool ON. The trigger needs to stay depressed to stay ON. Simply release the trigger to turn the unit OFF.

6. Press biscuit joiner into the workpiece to make the biscuit slot cut.
7. Once the blade is completely plunged into the workpiece, ease pressure on the biscuit joiner to allow the blade to retract out of the workpiece and back into the slide plate.
8. Once finished cutting, unplug the tool from the power source and store unit in blow molded case. Empty dust bag frequently to maintain efficiency and quality.

OPERATION TIPS

It is recommended to test cutting of biscuit slots on scrap wood before making any final cuts. This will help properly align the slot and the biscuit in the final workpiece.

The biscuit joiner is set up to cut the standard 3 different sizes of biscuits. It is recommended to use the largest biscuit size that will fit the joint. See Figure 11 for the standard sizes of biscuits.



OPERATION

OPERATION TIPS CONT.

There are many different types of joints that can be made using biscuits. See Figure 12 for a few common different types of layouts.

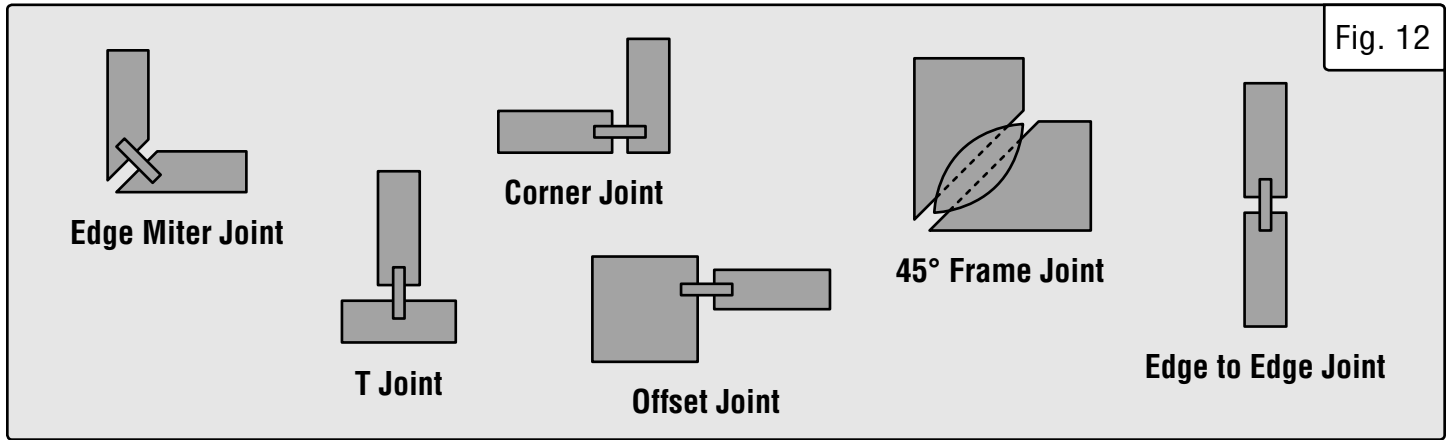


Fig. 12

When determining the location of the biscuit slots, it is generally recommended to place a biscuit in the middle of the joint and additional biscuits 6 to 10 inches from the center biscuit on each side. The biscuit closest to the edge should be placed no less than 2 to 3 inches from the edge (Fig 13).

For thicker workpieces, you can stack biscuits to ensure secure joints. It is recommended that the distance from the face of the workpiece is no less 1/4 inch and the distance between biscuits is not less than 1/4 inch (Fig 14).

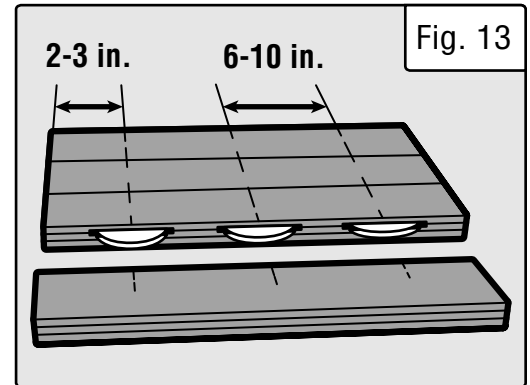


Fig. 13

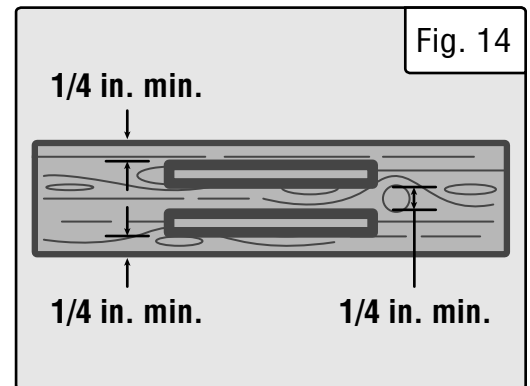


Fig. 14

MAINTENANCE

⚠ WARNING! To prevent serious injury from accidental operation, make sure that the biscuit joiner is turned off and unplugged from power source before installation, cleaning, and maintenance operations.

⚠ WARNING! Preventive maintenance performed by unauthorized personnel may result in misplacing of internal wires and components, possibly causing a serious hazard.

CLEANING

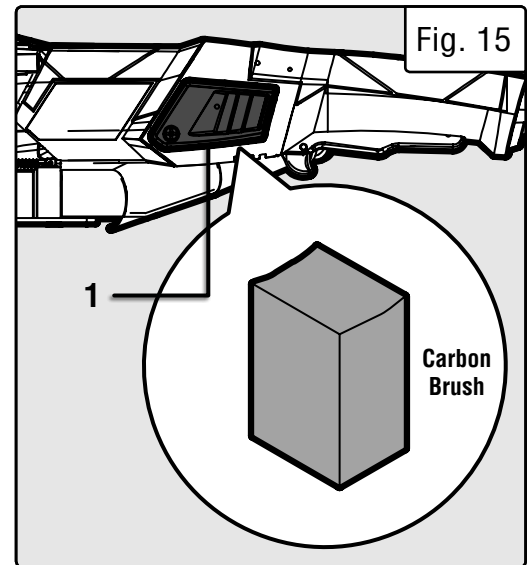
- Keep the biscuit joiner clean of any wood chips, dust, dirt or debris.
- Ventilation openings and switch levers must be kept clean and free of foreign matter.
- The tool may be cleaned most effectively with compressed dry air.
- Always wear safety goggles when cleaning tools with compressed air.
- Do not attempt to clean these components by inserting pointed objects through openings.

⚠ WARNING! Certain cleaning agents and solvents damage plastic parts. This includes but is not limited to gasoline, carbon tetrachloride, chlorinated cleaning solvents, ammonia and household detergents that contain ammonia.

CARBON BRUSHES

To maintain maximum efficiency of the motor, we recommend changing the carbon brushes every 60 hours of operation. Replacement carbon brushes (Model JN8504-035) are available at wenproducts.com. Only genuine WEN replacement brushes designed specifically for your tool should be used. To inspect or replace the carbon brushes:

1. Unscrew the screw securing the brush cover (Fig. 15-1) and remove the brush cover.
2. Use a small screwdriver (not included) or other small instrument to release the coil spring from the carbon brush and remove the worn carbon brush.
3. Replace the carbon brush, securing it with the coil spring. Reinstall the brush cover.

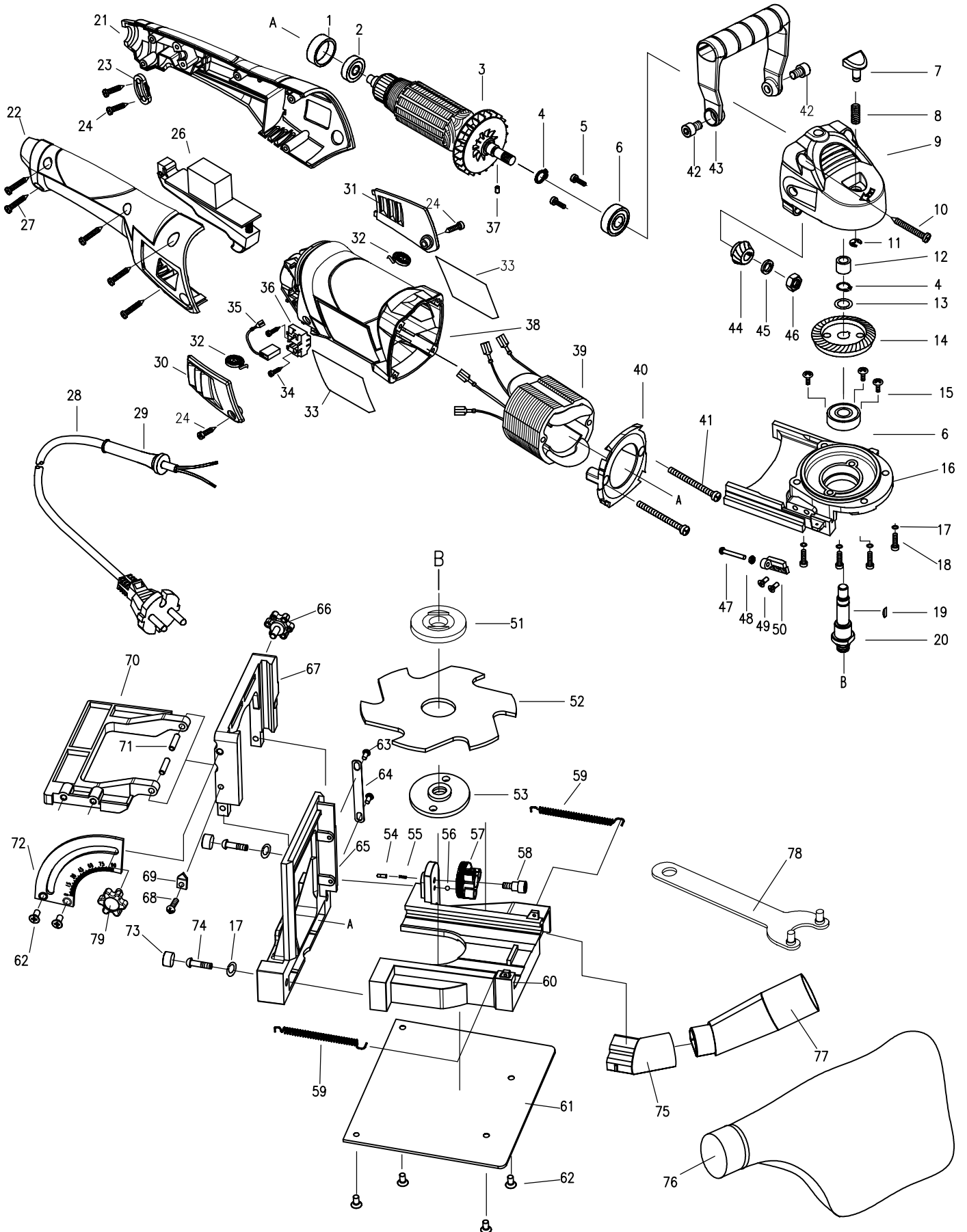


TROUBLESHOOTING GUIDE

⚠ WARNING! Stop using the tool immediately if any of the following problems occur. Repairs and replacements should only be performed by an authorized technician. For any questions, please contact our customer service at **1-(800) 232-1195**, M-F 8-5 CST or email us at techsupport@wenproducts.com.

PROBLEM	CAUSE	SOLUTION
Unit will not start.	1) Power cord is not connected to a power supply.	1) Ensure the power cord is connected to a power supply
	2) Power outlet does not have power.	2) Ensure that there is power at the outlet. If there is no power, check to make sure the breaker is not tripped and the outlet is rated for the proper capacity of the tool.
	3) Internal damage or excessive wear (ex. carbon brushes are worn, the switch has a faulty wire).	3) Contact customer service at 1-800-232-1195 for assistance.
Unit's blade operates slowly.	1) Power is being reduced by improper outlets or non-compliant extension cords	1) Check that the power outlet is rated for the proper capacity to match the tool and that proper extension cords are being used.
Unit's performance decreases over time.	1) Blade has become dull or damaged.	1) Replace blade if needed.
	2) Carbon brushes have worn down or are damaged.	2) Replace carbon brushes if needed.
Excessive noise or vibration.	1) Carbon brushes have worn down or are damaged.	1) Replace carbon brushes if needed.
	2) Damage or wear to internal parts.	2) Contact customer service at 1-800-232-1195 for assistance.
Unit is overheating.	1) Tool is being advanced too quickly into the workpiece.	1) Slow down tool advancement into material.
	2) Blade is damaged or dull.	2) Ensure blade is kept sharp and replace blade if needed.
	3) Dust has collected in the motor housing vents.	3) Clean dust from vents. Use compressed air to blow dust out while using properly rated safety glasses and dust mask.
	4) Motor is not getting enough power due to use of improperly rated extension cord.	4) Use extension cords only as recommended.

EXPLODED VIEW & PARTS LIST



EXPLODED VIEW & PARTS LIST

No.	Part No.	Description	Qty.
1	JN8504-001	Bearing Ring	1
2	JN8504-002	Bearing 607Z	1
3	JN8504-003	Armature	1
4	JN8504-004	Circlip	2
5	JN8504-005	Screw M5x8	2
6	JN8504-006	Bearing 6000Z	2
7	JN8504-007	Spindle Lock Button	1
8	JN8504-008	Spring	1
9	JN8504-009	Gear box	1
10	JN8504-010	Screw ST4.2x22	4
11	JN8504-011	Circlip	1
12	JN8504-012	Column bearing	1
13	JN8504-013	Spring washer	1
14	JN8504-014	Gear	1
15	JN8504-015	Screw M4x8	3
16	JN8504-016	Front cap	1
17	JN8504-017	Small Spring Washer	6
18	JN8504-018	Screw M4x14	4
19	JN8504-019	Woodruff Key	1
20	JN8504-020	Spindle	1
21	JN8504-021	Left Handle Housing	1
22	JN8504-022	Right Handle Housing	1
23	JN8504-023	Cord clamp	1
24	JN8504-024	Screw ST4.2x13	4
26	JN8504-026	Switch	1
27	JN8504-027	Screw ST4.2x16	5
28	JN8504-028	Power Cord	1
29	JN8504-029	Cord Stress Relief	1
30	JN8504-030	Right Brush Cap	1
31	JN8504-031	Left Brush Cap	1
32	JN8504-032	Brush Coil Spring	1
33	JN8504-033	Label	2
34	JN8504-034	Screw ST3.5x10	4
35	JN8504-035	Carbon Brush	2
36	JN8504-036	Brush holder	2
37	JN8504-037	Roller	1
38	JN8504-038	Motor Housing	1
39	JN8504-039	Stator	1
40	JN8504-040	Fan guide	1

No.	Part No.	Description	Qty.
41	JN8504-041	Screw ST4x58	2
42	JN8504-042	Screw M8x12	2
43	JN8504-043	Front handle	1
44	JN8504-044	Pinion	1
45	JN8504-045	Spring washer	1
46	JN8504-046	Nut M8	1
47	JN8504-047	Screw M4x45	1
48	JN8504-048	Depth Stop Nut M4	1
49	JN8504-049	Screw M4x8	2
50	JN8504-050	Depth Stop Block	1
51	JN8504-051	Inner Flange	1
52	JN8504-052	Blade	1
53	JN8504-053	Outer Flange	1
54	JN8504-054	Screw M4	1
55	JN8504-055	Spring	1
56	JN8504-056	Steel Ball	1
57	JN8504-057	Depth Adjustment Dial	1
58	JN8504-058	Screw M5x12	1
59	JN8504-059	Spring	2
60	JN8504-060	Slide plate	1
61	JN8504-061	Base plate	1
62	JN8504-062	Screw M4x6	6
63	JN8504-063	Screw M3x6	2
64	JN8504-064	Depth Scale	1
65	JN8504-065	Support Fence	1
66	JN8504-066	Height Adjustment Knob	1
67	JN8504-067	Height Fence	1
68	JN8504-068	Screw	1
69	JN8504-069	Angle pointer M4x14	1
70	JN8504-070	Angle Fence	1
71	JN8504-071	Dowel	2
72	JN8504-072	Angle Scale	1
73	JN8504-073	Fence Cap	2
74	JN8504-074	Screw M4x16	2
75	JN8504-075	Dust Port	1
76	JN8504-076	Dust Bag	1
77	JN8504-077	Dust Bag Tube	1
78	JN8504-078	Spanner Wrench	1
79	JN8504-079	Angle Adjustment Knob	1

WARRANTY STATEMENT

WEN Products is committed to building tools that are dependable for years. Our warranties are consistent with this commitment and our dedication to quality.

LIMITED WARRANTY OF WEN PRODUCTS FOR HOME USE

GREAT LAKES TECHNOLOGIES, LLC (“Seller”) warrants to the original purchaser only, that all WEN consumer power tools will be free from defects in material or workmanship during personal use for a period of two (2) years from date of purchase or 500 hours of use; whichever comes first. Ninety days for all WEN products if the tool is used for professional or commercial use. Purchaser has 30 days from the date of purchase to report missing or damaged parts.

SELLER’S SOLE OBLIGATION AND YOUR EXCLUSIVE REMEDY under this Limited Warranty and, to the extent permitted by law, any warranty or condition implied by law, shall be the replacement of parts, without charge, which are defective in material or workmanship and which have not been subjected to misuse, alteration, careless handling, misrepair, abuse, neglect, normal wear and tear, improper maintenance, or other conditions adversely affecting the Product or the component of the Product, whether by accident or intentionally, by persons other than Seller. To make a claim under this Limited Warranty, you must make sure to keep a copy of your proof of purchase that clearly defines the Date of Purchase (month and year) and the Place of Purchase. Place of Purchase must be a direct vendor of Great Lakes Technologies, LLC. Purchasing through third party vendors, including but not limited to garage sales, pawn shops, resale shops, or any other secondhand merchant, voids the warranty included with this product. Contact techsupport@wenproducts.com or 1-800-232-1195 with the following information to make arrangements: your shipping address, phone number, serial number, required part numbers, and proof of purchase. Damaged or defective parts and products may need to be sent to WEN before the replacements can be shipped out.

Upon the confirmation of a WEN representative, your product may qualify for repairs and service work. When returning a product for warranty service, the shipping charges must be prepaid by the purchaser. The product must be shipped in its original container (or an equivalent), properly packed to withstand the hazards of shipment. The product must be fully insured with a copy of the proof of purchase enclosed. There must also be a description of the problem in order to help our repairs department diagnose and fix the issue. Repairs will be made and the product will be returned and shipped back to the purchaser at no charge for addresses within the contiguous United States.

THIS LIMITED WARRANTY DOES NOT APPLY TO ITEMS THAT WEAR OUT FROM REGULAR USAGE OVER TIME, INCLUDING BELTS, BRUSHES, BLADES, BATTERIES, ETC. ANY IMPLIED WARRANTIES SHALL BE LIMITED IN DURATION TO TWO (2) YEARS FROM DATE OF PURCHASE. SOME STATES IN THE U.S. AND SOME CANADIAN PROVINCES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

IN NO EVENT SHALL SELLER BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES (INCLUDING BUT NOT LIMITED TO LIABILITY FOR LOSS OF PROFITS) ARISING FROM THE SALE OR USE OF THIS PRODUCT. SOME STATES IN THE U.S. AND SOME CANADIAN PROVINCES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

THIS LIMITED WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE IN THE U.S., PROVINCE TO PROVINCE IN CANADA AND FROM COUNTRY TO COUNTRY.

THIS LIMITED WARRANTY APPLIES ONLY TO ITEMS SOLD WITHIN THE UNITED STATES OF AMERICA, CANADA AND THE COMMONWEALTH OF PUERTO RICO. FOR WARRANTY COVERAGE WITHIN OTHER COUNTRIES, CONTACT THE WEN CUSTOMER SUPPORT LINE. FOR WARRANTY PARTS OR PRODUCTS REPAIRED UNDER WARRANTY SHIPPING TO ADDRESSES OUTSIDE OF THE CONTIGUOUS UNITED STATES, ADDITIONAL SHIPPING CHARGES MAY APPLY.

**THANKS FOR
REMEMBERING**

