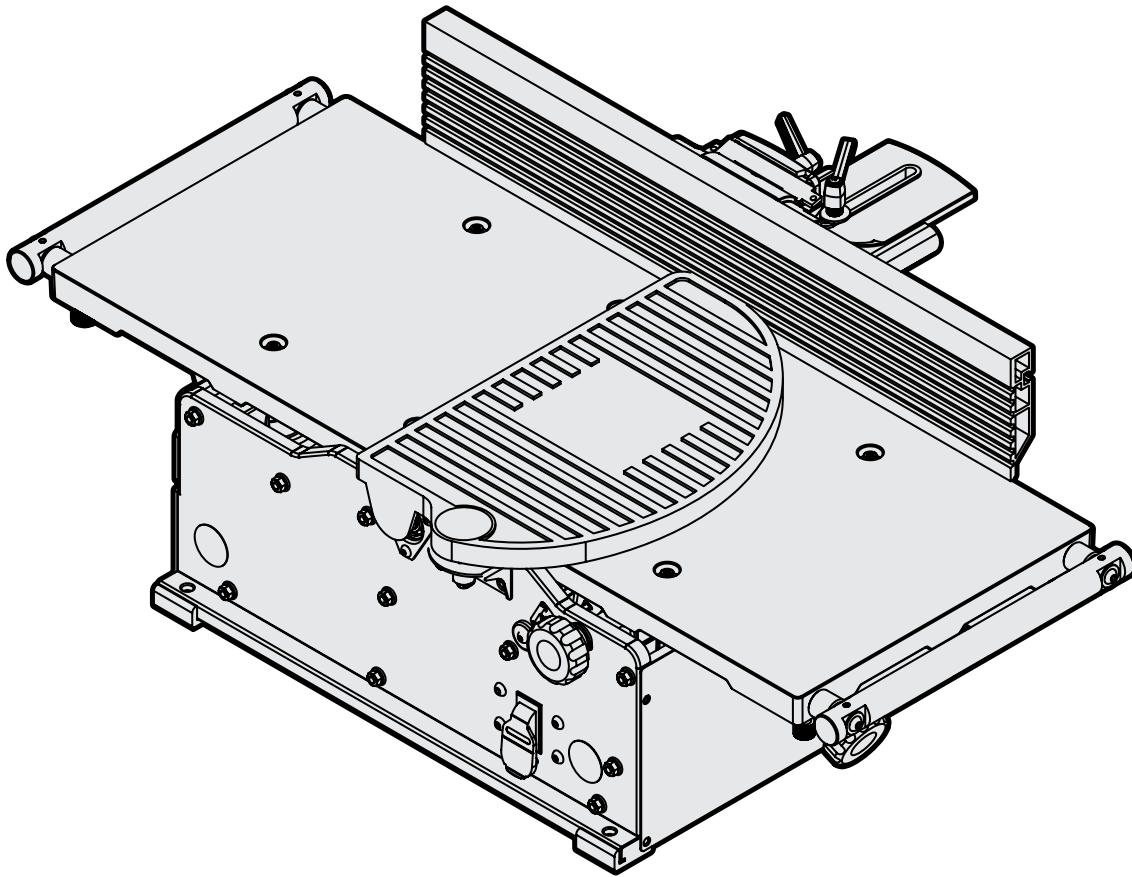




MODEL JT1020H, JT1224H

BENCHTOP JOINTER WITH SPIRAL CUTTERHEAD

Instruction Manual



NEED HELP? CONTACT US!

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



1-847-429-9263 (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***

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

Replacement Helical Blades (Part No. BP510H)

4-1/4" x 24" Cast Iron Fence (Model JTA424)

Push Block and Push Stick Safety Set (Model WA0001)

Multi-Purpose Rolling Planer & Miter Saw Tool Stand (Model MSA658T)

INTRODUCTION

Thanks for purchasing the WEN Benchtop Jointer. 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 **1-847-429-9263**.

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	JT1020H	JT1224H
Motor	120V AC, 60 Hz, 12A	120V AC, 60 Hz, 12A
Cutterhead Rotation Speed	11,000 RPM	11,000 RPM
Max Cutting Width	10 in.	12 Inches
Max Cutting Depth	1/8 in.*	1/8 in.*
Recommended Cutting Depth	1/32 in.	1/32 in.
Number of Blades	20	24
Table Size	10-3/16 in. x 34 in. (54 in. fully extended)	12-3/16 in. x 34 in. (54 in. fully extended)
Fence Size	4-1/4 in. x 24 in.	4-1/4 in. x 24 in.
Dust Port Diameter	2-1/2, 4 in.	2-1/2, 4 in.
Fence Bevel	90° - 135°	90° - 135°
Product Dimensions	54 in. x 21-3/4 in. x 13-1/4 in.	54 in. x 23-3/4 in. x 13-1/4 in.
Weight	79.50 lbs	87.10 lbs

***When jointing boards over 6 inches, reduce maximum cutting depth by 1/32 inch per inch.**

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.

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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.

JOINTER 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.

JOINTER SAFETY

1. TOOL PURPOSE

This jointer is designed for creating flat surfaces on wood or wood-like products only. Smoothing other materials could result in fire, injury, or damage to the workpiece. 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. MACHINE MOUNTING

For the operator's safety, the jointer must be securely mounted onto a flat and stable surface or stand.

3. 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.

4. 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.

5. TOOL & ACCESSORIES INSPECTION

Before operation, check the tool and accessories for any damage or missing parts. Do not use the tool if any part is missing or damaged. Make sure all adjustments are correct and all connections are tight. Keep all guards in place. Make sure all moving parts are free from interference.

6. JOINTER ACCESSORIES

- Do not use blades, or any accessories that are damaged or worn. Replace blades as they become damaged or dull.
- Make sure all blades and accessories are sharp enough for the task at hand before using them.
- Make sure blades are aligned and properly attached to the cutterhead before using your planer.
- Always turn off and unplug the unit before doing any cleaning or maintenance. Use a brush or compressed air to remove chips or debris. Never use your hands to remove excess material and debris.

7. Allow the jointer to come to full speed before using the machine.

8. WORKPIECE REQUIREMENTS

Check the workpiece carefully for splits, knots, nails, or other obstructions. These types of blemishes may cause a safety risk during jointing.

9. USE HIGH QUALITY LUMBER

Blades last longer and cuts are smoother with higher quality wood.

10. DO NOT joint material shorter than 10", narrower than 3/4", or thinner than 1/4". Never make a jointing cut deeper than 1/8". We strongly recommend that you always use a push block or push stick, but it is especially critical when jointing material narrower or thinner than 3".

11. PREVENTING ACCIDENTAL STARTING

Make sure the power switch is in the OFF position prior to plugging in the machine. 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.

12. SUPPORT THE WORKPIECE adequately at all times during operation; maintain control of the workpiece.

13. DO NOT back workpiece toward the infeed table.

14. If gluing a workpiece, always use a high quality glue that meets the needs of the particular workpiece.

15. Take precautions against KICKBACK. DO NOT permit anyone to stand or cross in line of the cutterhead's rotation. Kickback or thrown debris will travel in this direction.

16. Do not operate this tool until it is completely assembled and installed according to the instructions.

17. Remove scrap pieces and other objects from the table and work area before turning ON the jointer.

18. Do not touch moving pieces. Keep hands away from all moving parts and cutting surfaces.

JOINTER 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.

19. Never perform layout, assembly or set-up work on the table while the jointer is operating.

19. Always turn off and unplug the machine before cleaning, making adjustments or changing attachments. Accidental start-ups may occur if the tool is plugged in during an accessory change or adjustment.

20. CLEANING

Never use solvents to clean plastic parts. Solvents could dissolve or otherwise damage the material. Use only a soft damp cloth to clean plastic parts.

21. REPLACEMENTS

Should any component of your jointer 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.

These safety instructions can't possibly warn of every scenario that may arise with this tool, 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.

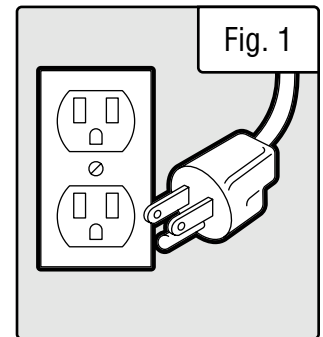
1. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a licensed electrician.

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.
12A	14 gauge	12 gauge	Not Recommended	

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.

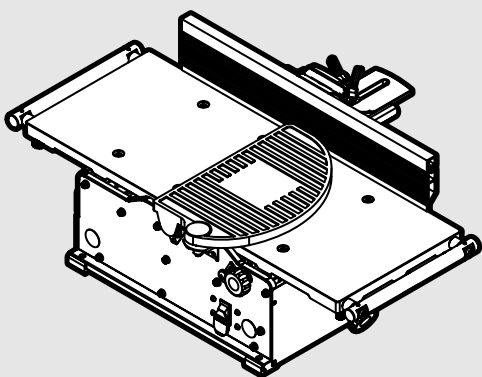
UNPACKING & PACKING LIST

UNPACKING

With the help of a friend or trustworthy foe, such as one of your in-laws, carefully remove the jointer 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 **1-847-429-9263** (M-F 8-5 CST), or email techsupport@wenproducts.com.

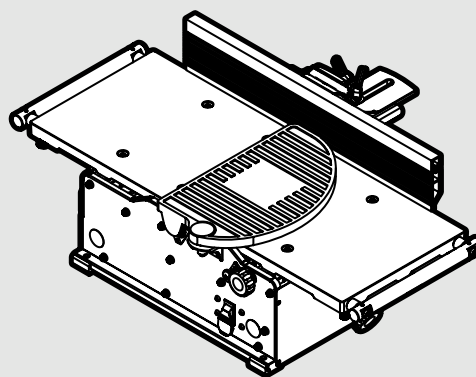
PACKING LIST

JT1020H Components



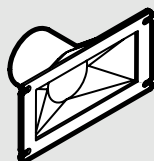
Jointer

JT1224H Components

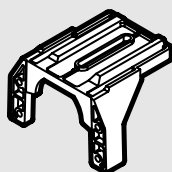


Jointer

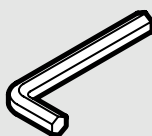
JT1020H & JT1224H Accessories



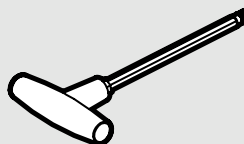
Dust Port (1)



Fence Bracket (1)



*4mm Hex Wrench



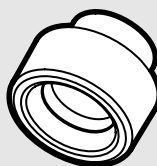
*T25 Star Wrench



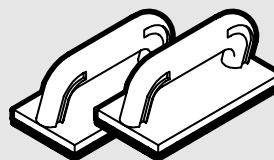
*2.5mm Hex Wrench



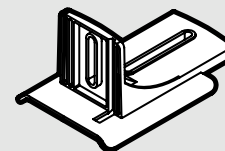
Fence (1)



Dust Port Adapter (1)



Push Block (2)



Fence Sliding Bracket (1)

* Included in the hardware bag.

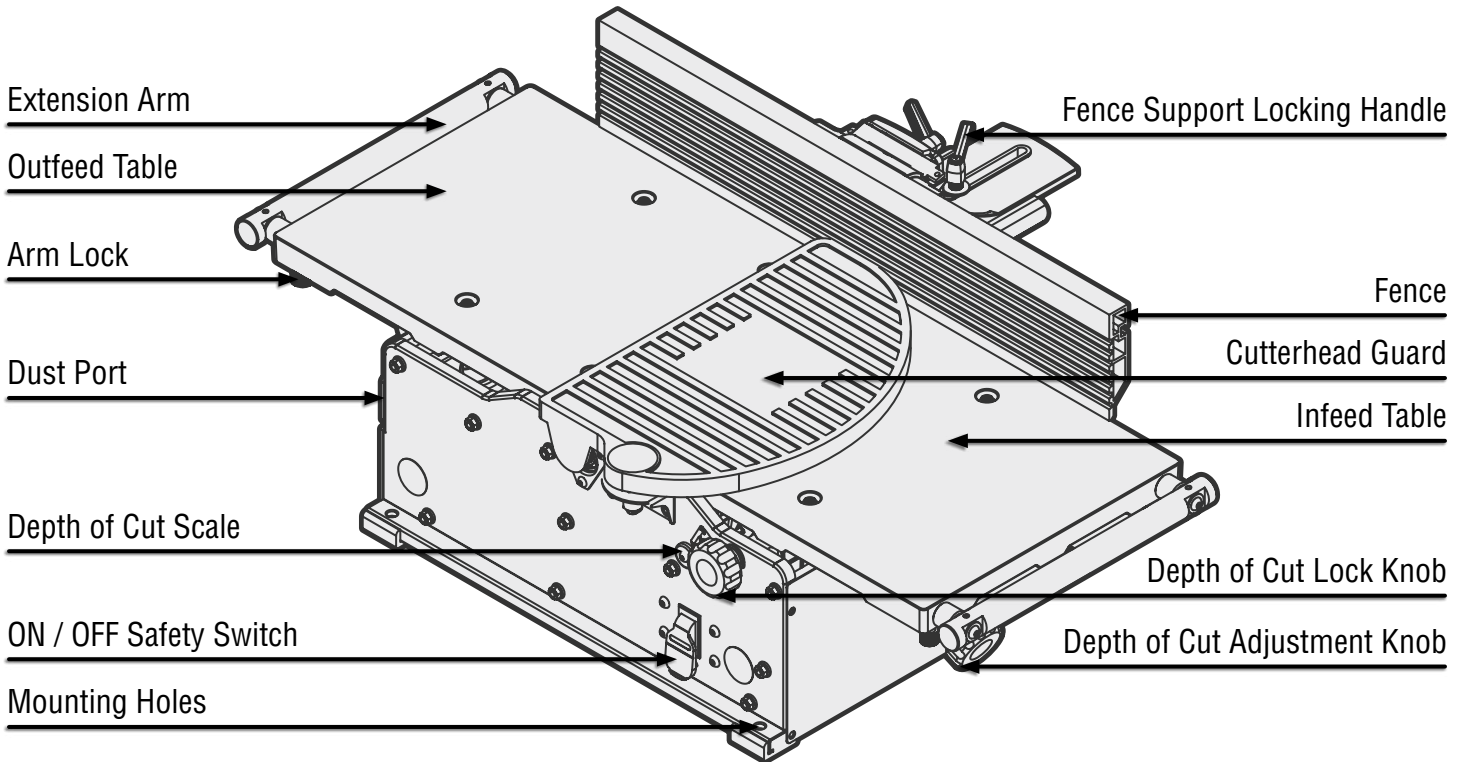
JT1020H & JT1224H HARDWARE BAG

- Fence Sliding Handle (1)
- M6x16 Socket Head Screw (2)
- Square Nut (2)
- Washer (1)
- 2.5mm Hex Wrench (1)
- 4mm Hex Wrench (1)
- Star Wrench (1)

KNOW YOUR JOINTER

TOOL PURPOSE

Resurface boards, flatten workpieces, and much more with your WEN Jointer. Refer to the diagram below to become familiarized with the parts and controls of your jointer.



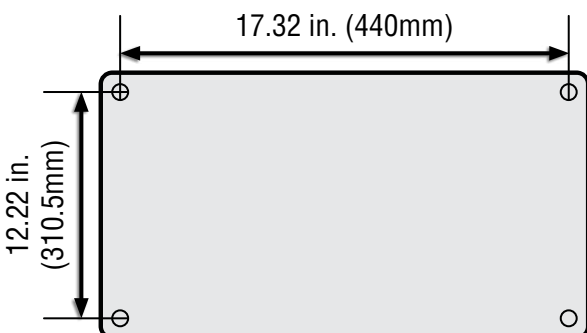
NOTE: A protective coating of lubricating oil has been applied during assembly to protect against rust. Wipe down all components thoroughly. Apply a light coat of good-quality paste wax to the table and fence to protect the surfaces and make boards slide smoothly.

MOUNTING THE JOINTER TO A WORK SURFACE

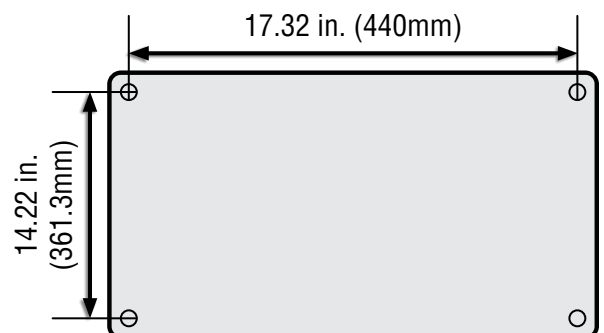
The jointer should always be mounted to a stable, level bench or table in a well-lit area. Make sure there is plenty of room for maneuvering the workpiece through the entire cut. Neither the operator nor bystanders should stand in line with the workpiece while the tool is operating.

1. Mount the jointer to a workbench or tool stand using four bolts, four flat washers, and four hex nuts (not included) through the mounting holes on the base. There are four mounting holes - one at each corner. We recommend using 5/16" or M6 bolts.

JT1020H MOUNTING DIMENSIONS



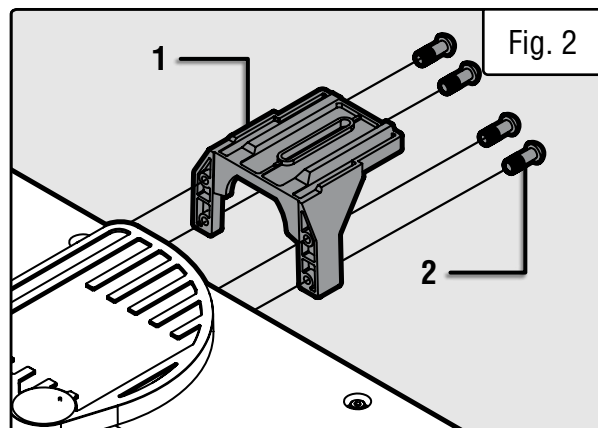
JT1224H MOUNTING DIMENSIONS



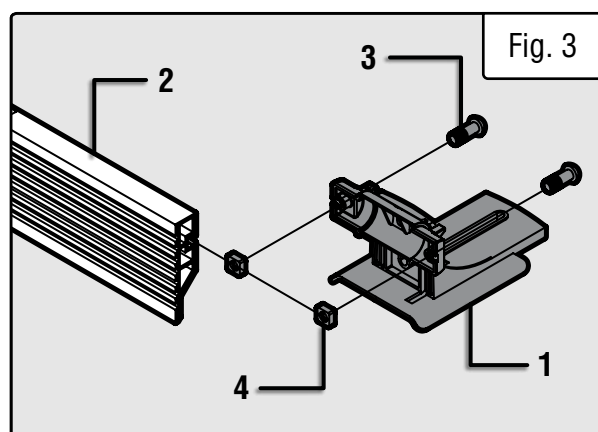
ASSEMBLY & ADJUSTMENTS

ATTACH THE FENCE

1. Attach the fence support bracket (Fig. 2 - 1) to the jointer with four socket head bolts (Fig. 2 - 2)



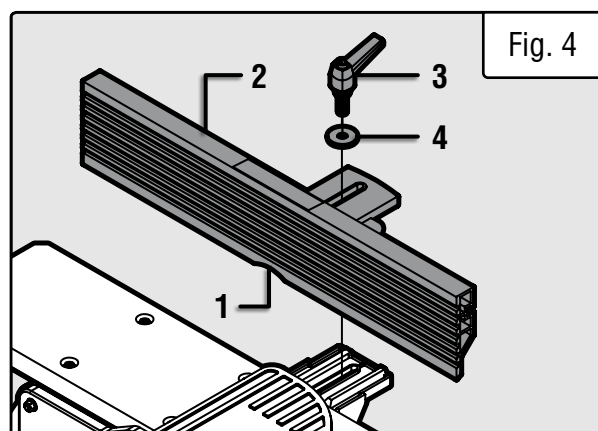
2. Assemble the fence sliding bracket (Fig. 3 - 1) to the fence (Fig. 3 - 2). Insert the two socket head bolts (Fig. 3 - 3) through the top of the fence sliding bracket and screw the square nuts (Fig. 3 - 4) onto the bolts but do not tighten.



3. Slide the square nuts into the grooves on the back of the fence and position the fence sliding bracket to the middle of the fence. Tighten the socket head screws (Fig. 3 - 3) once the sliding fence bracket is correctly positioned.

NOTE: Use the fence cutout (Fig 4 - 1) to position the fence sliding bracket in the center of the fence.

4. Place the upper fence assembly (Fig. 4 - 2) on top of the fence support bracket. Insert the sliding handle (Fig. 4 - 3) through the flat washer (Fig. 4 - 4), through the sliding bracket, and then through the support bracket.



5. Hold the rectangular nut under the fence support bracket so that it fits snugly into the groove with the flat side up. Thread the sliding handle through the nut until it is tight, and the fence is secured.

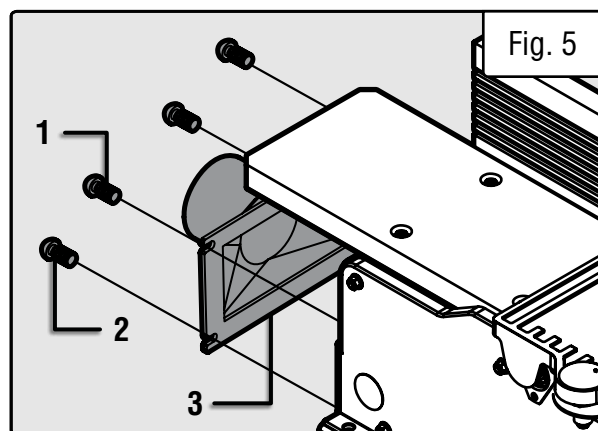
NOTE: The fence sliding handle and fence bevel handle are spring-loaded and can be re-positioned as need be. Pull out on the handle, re-position it, and let it spring back in place.

NOTE: The stop limits on the fence bracket have been set at the factory, but should be checked with an angle gauge to measure exactly 90° and 135° between the fence and the table top at each stop limit, respectively. The stop limits can be modified by tightening or loosening the set screws (Fig. 10 - 2) if the angles are not precise.

NOTE: The bottom of the fence should always rest on the out-feed table. Adjust the fence (p. 14) so that only the desired width of the cutterhead is exposed.

INSTALL THE DUST CHUTE

1. Remove the two M6x12 screws (Fig. 5 - 1) from the body of the jointer and the two self tapping screws (Fig. 5 - 2) from the feet of the jointer.



2. Position the dust port (Fig. 5 - 3) and reinstall all four screws. Be sure not to over-tighten the screws as doing so might damage the dust port.

NOTE: Your jointer comes with an optional dust port adapter to allow you to connect to 2-1/2" or 4" hoses.

ASSEMBLY & ADJUSTMENTS

ADJUST THE TABLE SUPPORTS

Your jointer is equipped with extendable table supports (Fig. 6 - 1). To extend the supports, loosen the two knobs (Fig. 6 - 2) on each side of the support bar and reposition the support to the desired position. Once the support is in the desired position, re-tighten the knobs underneath the table.

ADJUST AND LEVEL THE TABLE

The infeed and outfeed table have been pre-set at the factory to be level and in line with the blades. However, if shipping or use has caused the table to shift out of level, adjust the tables with the following steps. Make sure that the unit is unplugged from any power supply before adjusting the table.

NOTE: This procedure involves close proximity to the helical blades. To avoid cuts, wear cut-proof or cut-resistant gloves when performing maintenance work. Remove the gloves before operating the jointer.

1. Set the depth of cut scale (Fig. 7 - 1) to “0” to bring the infeed table to its most up most position.

2. Rotate the cutterhead such that some of the blades are at their highest point. The cutterhead can be safely rotated using the included 4 mm hex wrench at the front end of the cutterhead under the blade guard flange (Fig. 7 - 2).

3. Use a long metal straight edge to check the height of the outfeed table. Place the straight edge over the outfeed table and the cutterhead blades. Check that the blades barely touch the straight edge at both the front and back of the cutterhead. You will need to rotate the cutterhead to check both the front and back alignment of the table.

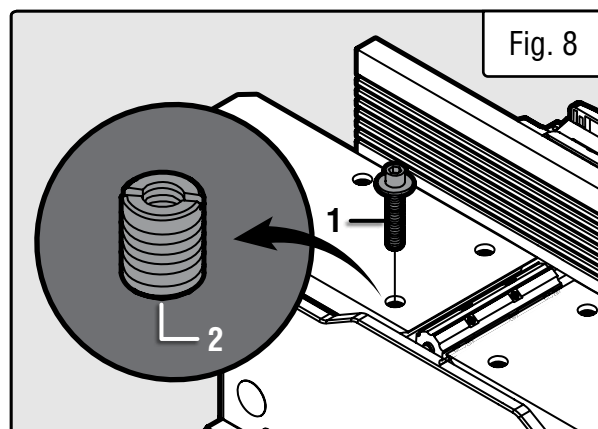
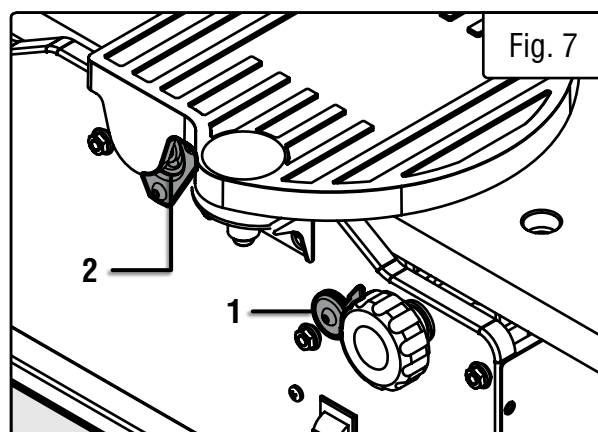
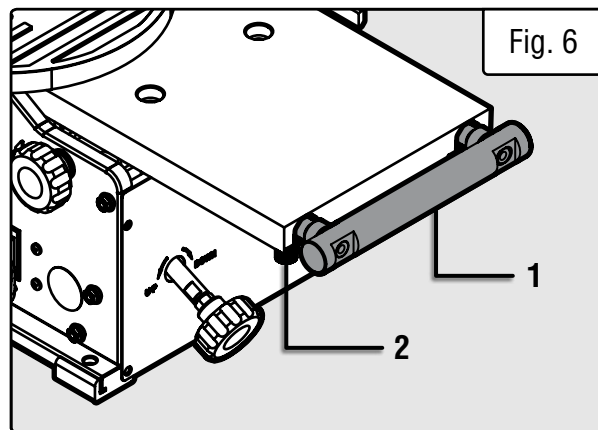
4. If the blades do not touch the straight edge or drastically hit the straight edge, the outfeed table will need to be adjusted.

a. Use the included 4mm hex wrench to loosen and remove the bolts (Fig. 8 - 1) countersunk in the table. There are four in the infeed table and four in the outfeed table. Remove the washers as well to access the slotted screws (Fig. 8 - 2) underneath.

b. Use a flat head screwdriver to adjust the slotted screw. Turning the screw clockwise will lift the table up and turning counterclockwise will lower the table. Adjustments to the screw should be minimal, with only a 1/20th turn before rechecking the table's position with the straight edge.

c. Once the table is level and at the correct height, reinstall the washer and bolt to secure the table.

5. Once the outfeed table is set at the correct height, follow the steps above to ensure that the infeed table is at the correct height.



Directions continue on the next page.

ASSEMBLY & ADJUSTMENTS

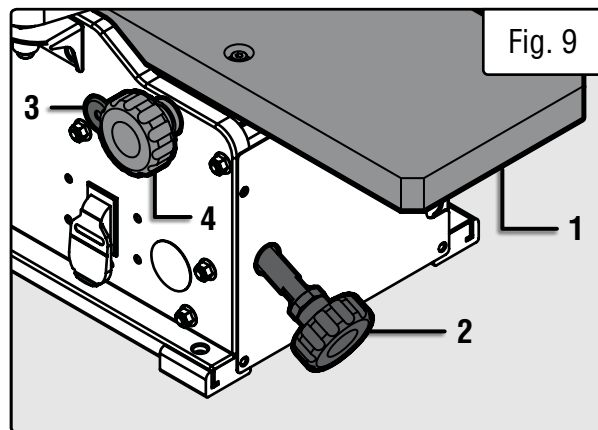
ADJUST AND LEVEL THE TABLE (CONT.)

6. When both the infeed and outfeed tables are aligned with the blades, lay the straightedge across the infeed and outfeed tables to ensure that they are level. If the tables are not perfectly aligned, tune the outfeed table to the infeed table using step 4 above to adjust the level of the table.

⚠ WARNING! Do not plug in or turn on the tool until it is fully assembled according to these instructions. Failure to follow the safety instructions may result in serious personal injury.

ADJUST THE DEPTH OF CUT

The depth of cut is adjusted by the relative positioning of the infeed table with respect to the cutterhead. The infeed table (Fig. 9 - 1) can be raised or lowered using the infeed adjustment knob (Fig. 9 - 2). Turning the knob counterclockwise will raise the infeed table, causing less wood to be removed from the workpiece, as seen on the depth of cut scale (Fig. 9 - 3). Turning the hand wheel clockwise will lower the infeed table, causing more wood to be removed from the workpiece. Always make sure that the front lock knob (Fig. 9 - 4) is loosened before changing the depth of cut and tightened after the desired change has been made so that the depth of cut does not differ between cuts. Do not make jointing cuts deeper than 1/8 of an inch.



NOTE: For a smooth finish, it is recommended to do multiple passes at a lower depth. We recommend using a depth of 1/32". Always using a depth of 1/8" will shorten the lifespan of your jointer and give you a rougher finish.

BEVEL THE FENCE

NOTE: The fence can easily be set to 0° and 45° using the limit stops (Fig. 10 - 2) on the fence. However, it is always advisable to check the angles with a piece of scrap wood before jointing your final workpiece. Adjust the set screws that act as limit stops if they are not exact or have moved from shipping or use.

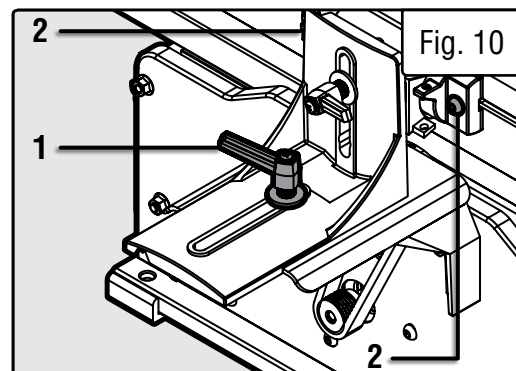
The fence can be positioned to joint the wood at any angle from 0° to 45°.

1. Before adjusting the fence's angle, make sure that the unit is unplugged and the power switch is in the OFF position.
2. Turn the fence bevel handle counterclockwise to loosen it. If you find it necessary to reposition the handle in order to loosen it, pull it outwards, turn the handle to the new position, and release it.
3. Manually tilt the fence to desired angle; use an angle gauge block (not included) to see the current angle.
4. Once the desired angle has been achieved, tighten the bevel handle.

ASSEMBLY & ADJUSTMENTS

MOVE THE FENCE

1. Before adjusting the fence's position, make sure that the unit is unplugged and the power switch is in the OFF position.
2. Loosen the fence sliding handle (Fig. 10 - 1).
3. Slide the fence to the desired position. The fence should be positioned over the cutterhead so that only the desired width of the cutterhead is exposed. Make sure the exposed width matches that of the workpiece.
4. Tighten the fence sliding handle so that the fence is secure.



AVOID DAMAGE TO BLADES

Jointers are a precision woodworking machine and should be used on quality lumber only. Do not join dirty boards; dirt and small stones are abrasive and will wear out the blades.

For proper operation, attach a dust collection system to the dust port, on the left of the jointer. Attaching a dust collection system is very important when taking deeper cuts to prevent wood chips clogging the unit.

NOTE: If you consistently take heavy passes, you will get larger chips. A high-pressure dust collection system, such as a wet/dry vacuum or chip extractor, may perform better. If you consistently take shallow passes, you will get smaller chips, and a high-flow dust collection system should suffice. We recommend multiple shallow passes for best results.

Remove nails and staples. Only use the jointer to cut wood. Avoid knots. Heavily cross-grained wood makes knots hard. Knots can come loose and jam blades.

Assess the value of badly warped boards. You may be tempted to take a deep cut to square the boards quickly, when a better approach is to use several passes with a shallower cut.

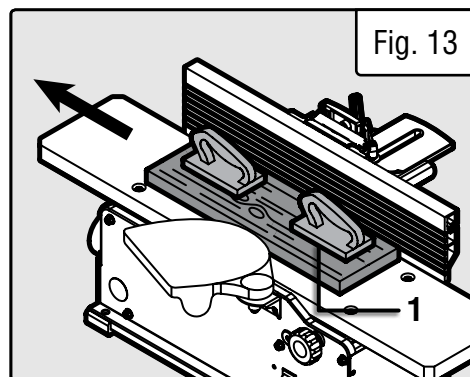
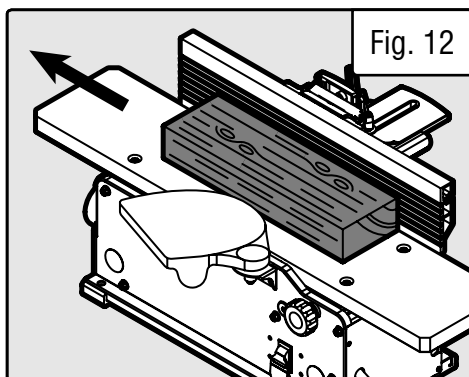
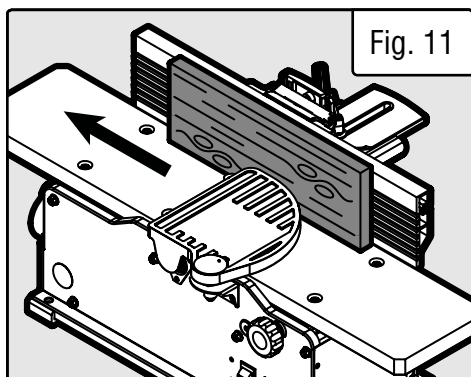
OPERATION

FEED A WORKPIECE

Feed rate refers to the rate at which wood is passed over the blades. An even feed rate produces a uniform finish.

1. Hold the work piece firmly down on the feed table and against the fence.
2. Feed the work piece at an even rate over the cutterhead. Any hesitation or stopping will cause a "step" to be cut in the work piece. See Figs. 11 - 13 for different feeding methods.

Directions continue on the next page.



OPERATION

3. As your trailing hand passes over the cutterhead, remove your leading hand and place behind your trailing hand and repeat until the entire length of the workpiece has been cut. Always use a push block or push stick (Fig. 13 - 1), but it is especially critical to help hold and feed the workpiece when jointing wood that is narrower than 3 inches or thinner than 3 inches.

4. Cut with the grain whenever possible (Fig. 14). Do not feed against the end grain (Fig. 15), otherwise the workpiece may split and shatter. If the nature of the workpiece requires you to joint against the grain, take extremely light cuts and feed slowly. When using long work pieces, use extra supports at both ends of the jointer.

BEVEL AND CHAMFER

The fence on the jointer is adjustable from 0° to 45°. Adjust the fence to the desired angle and tighten the bevel handle.

Beveling refers to cutting the entire edge of a board at an angle. Beveling may require several passes due to the depth of the cut needed. See Fig. 16.

Chamfering refers to removing only the corner of the edge of a board. Normally a chamfer is made in one pass; so a 1/16-inch deep cut is made. See Fig. 16.

ATTACH A VACUUM HOSE

A 2-1/2" (or 4" with the dust port adapter) dust collection hose can be attached to the dust port underneath the outfeed table. The jointer will perform properly at all depths of cuts up to 1/8" when using a dust collection system.

NOTE: Make sure the jointer and dust collection system are on separate electrical circuits. This will prevent circuits from overloading.

1. Make sure the switch is in the OFF position and that the cord is unplugged before attaching the vacuum hose.

2. Attach the dust collection hose to the dust port (Fig. 17 - 1).

3. Turn the dust collection system ON before starting the jointer. Periodically replace and empty the bag in the collection system according to the manufacturer's instructions.

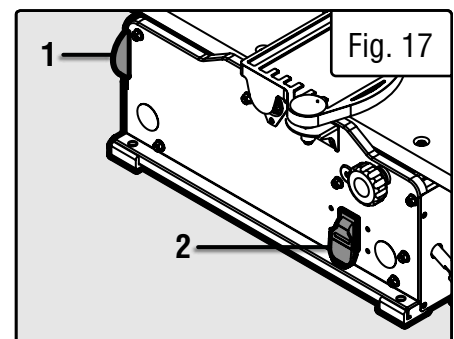
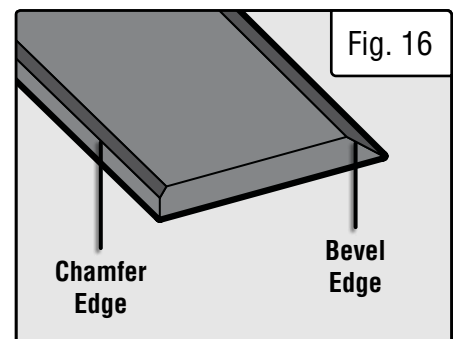
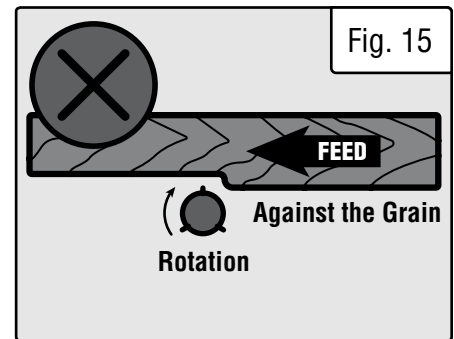
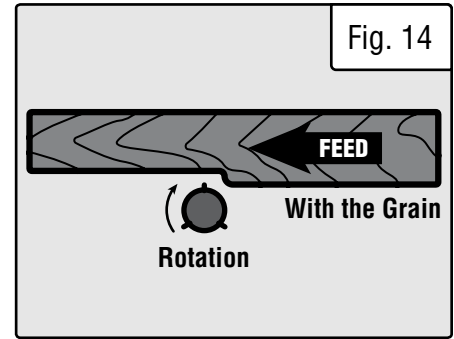
ON/OFF SWITCH

The ON/OFF switch (Fig. 17 - 2) is located on the front of the jointer.

1. To turn the jointer ON, move the switch to the up position.

2. To turn the jointer OFF, move the switch to the down position.

3. Remove the yellow tab to engage the child-safety lock and prevent unwanted start-ups.



MAINTENANCE

⚠ WARNING! To avoid accidents, turn OFF and unplug the tool from the electrical outlet before cleaning, adjusting, or performing any maintenance or lubrication work.

⚠ WARNING! Any attempt to repair or replace electrical parts on this tool may be hazardous. Servicing of the tool must be performed by a qualified technician. When servicing, use only identical WEN replacement parts. Use of other parts may be hazardous or induce product failure.

⚠ WARNING! To avoid cuts, wear cut-proof or cut-resistant gloves when performing maintenance work. Remove the gloves before operating the jointer.

ROUTINE INSPECTION

Before each use, inspect the general condition of the tool. If any of the following conditions exist, do not use until parts are replaced or the jointer is properly repaired.

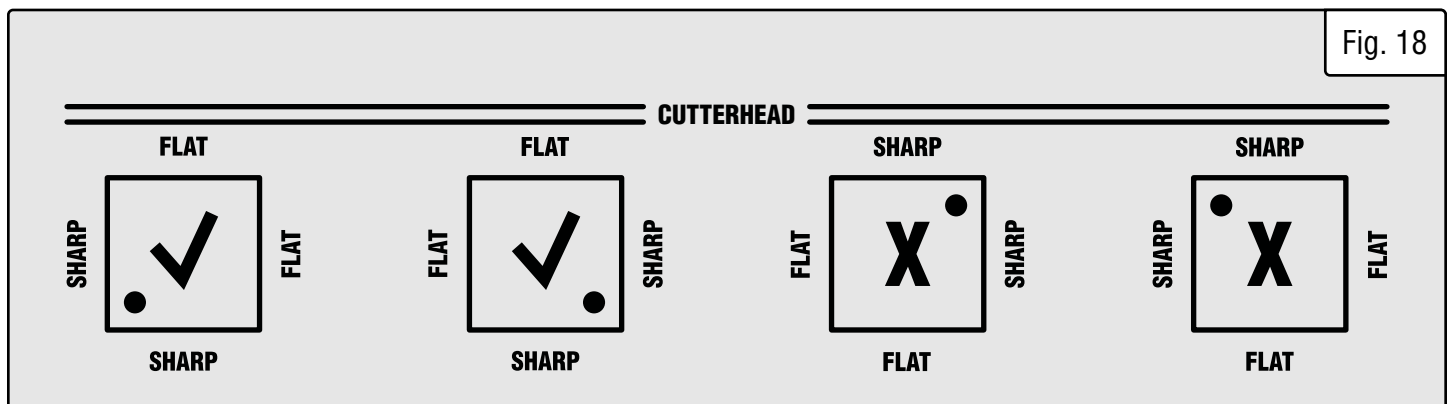
Check for:

- Loose hardware or improper mounting,
- Misalignment or binding of moving parts,
- Damaged cord/electrical wiring,
- Worn or damaged blades,
- Cracked or broken parts, and
- Any other condition that may affect its safe operation

CHECK FOR WORN BLADES

The condition of blades will affect the precision of the cuts. Observe the quality of the cut that the jointer produces to check the condition of the blades. Dull blades will tear wood fibers and produce fuzzy surfaces. Raised grain will occur when dull blades pound on wood that has varying density. Raised edges will also be produced where the blades have been nicked. Blades on this jointer should always be replaced as a matched set. Keeping a spare set of blades on hand is recommended. Replacement blades (part no. **BP510H**) can be ordered from **wenproducts.com**.

NOTE: Blades are only sharp on two edges. Make sure that the edge facing the infeed table has a sharp cutting edge. Refer to Fig. 18 for more detail.



MAINTENANCE

 **WARNING!** To avoid cuts, wear cut-proof or cut-resistant gloves when performing maintenance work on the blades. Remove the gloves before operating the jointer.

REPLACING OR ROTATING BLADES

Your jointer is equipped with a helical cutting head consisting of either 20 or 24 blades, depending on the model. Each blade is indexed with a small dot in the corner to denote the two sharp sides of the blade. Once a side of the blade is dull or nicked, use the star head wrench to remove the retaining screw to rotate or replace the blade. The blades are machined to be properly positioned once the retaining screw is tightened, but make sure that all dust and debris is cleared away to help the blade be seated properly. Make sure that the unit is unplugged from the power supply before changing any blades.

NOTE: To avoid cuts, wear cut-proof or cut-resistant gloves when performing maintenance work. Remove the gloves before operating the jointer.

1. Insert the 4 mm hex wrench at the front of the cutterhead under the blade guard flange to hold the cutterhead still while working with the blades.
2. Use the T25 star wrench to remove the retaining screw and the blade from the cutterhead.
3. While the blade is removed, check the cutterhead for any resin build up or dust that is stuck around the blade location. Use a brush (such as an old toothbrush) and suitable solvents to clean the cutterhead so that the blade will be seated properly.
4. Rotate or replace the blade to the desired position. Be sure to note the position of the small dot to ensure the blade is being installed with a new sharp edge (Fig. 18).
5. Tighten the retaining screw back on the cutterhead to hold the blade in place. Do not overtighten the retaining screw as this might damage the blade. Make sure that the screw is only tightened with a torque of about 50 inch-lbs.

CLEANING & STORAGE

1. After every operation, use a vacuum to remove dust and chips from the tool surfaces, motor housing and work area. Keep the ventilation openings free from dust and debris to prevent the motor from overheating.
2. Wipe the tool surfaces clean with a soft cloth or brush. Make sure water does not get into the tool.
3. Lubricate the table bracket and locking knobs if they become difficult to use.

TROUBLESHOOTING GUIDE

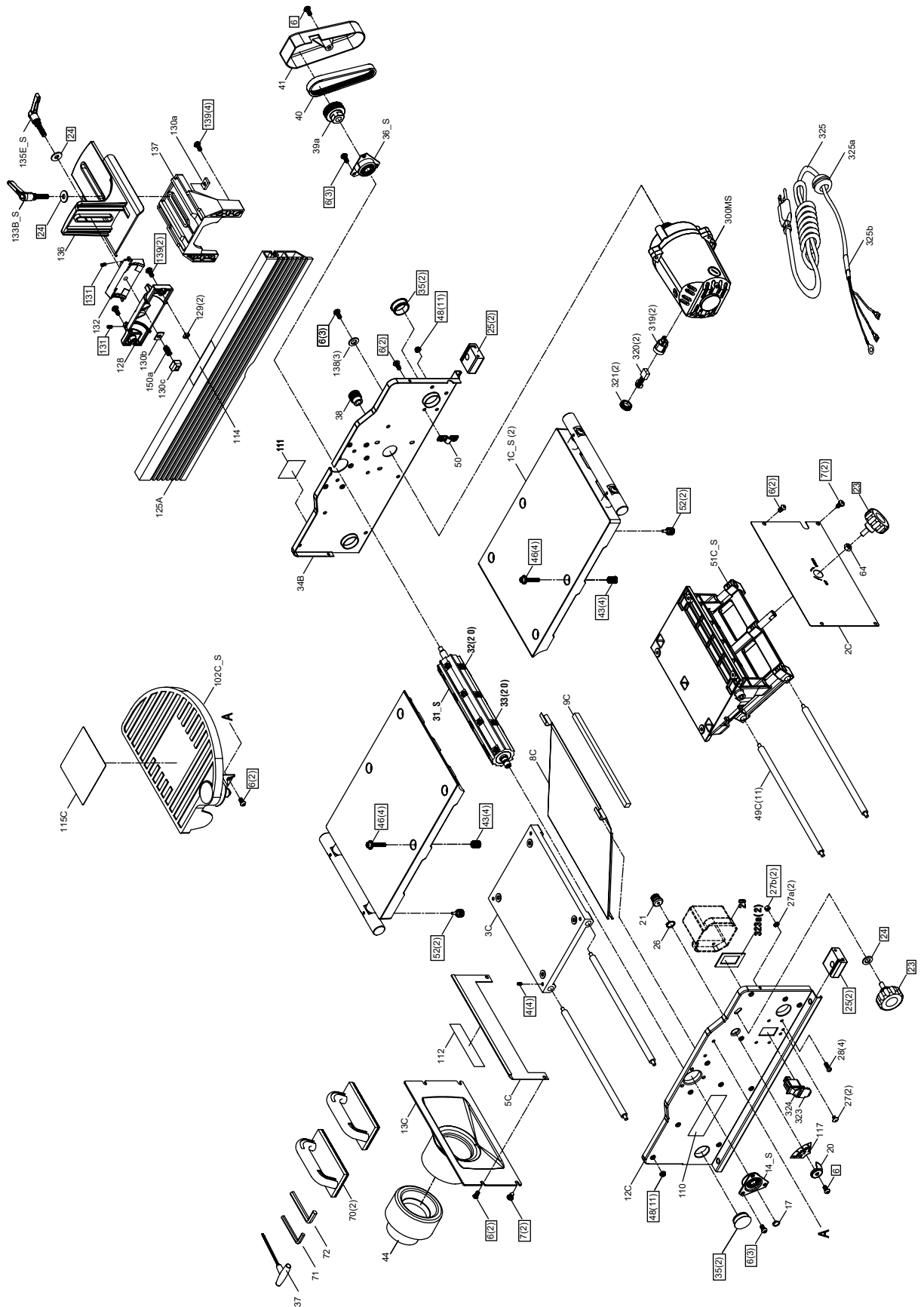
⚠ WARNING! Stop using the tool immediately if any of the following problems occur. Repairs and replacements should only be performed by an authorized technician. For any questions, please contact our customer service at **1-847-429-9263**, M-F 8-5 CST or email us at techsupport@wenproducts.com.

PROBLEM	CAUSE	SOLUTION
Motor does not start.	Jointer is not plugged in.	Plug jointer in.
	Wrong choice of extension cord.	Choose proper size of extension cord.
	Defective switch.	Contact customer service at 1-847-429-9263 , M - F, 8 - 5 CST.
	Defective motor.	Contact customer service at 1-847-429-9263 , M - F, 8 - 5 CST.
	Worn carbon brushes.	Replace carbon brushes.
	Low line voltage.	Correct low line voltage condition.
Motor starts slowly or fails to come to full speed.	Defective motor windings.	Contact customer service at 1-847-429-9263 , M - F, 8 - 5 CST.
	Clogged wood chips.	Make a shallower cut and attach a dust collection device to the dust port. Inspect the chip blower assembly and the fan belt.
Motor is running too hot.	Motor overloaded.	Reduce the load on the motor (take shallower cuts).
	Restricted air circulation due to dust accumulation.	Clean out the dust and restore normal air circulation.
Snipe (gouging at end of boards)	Dull blades.	Replace or sharpen blades.
	Inadequate support of long boards.	Support long boards.
	Uneven feed.	Feed the workpiece at a consistent rate.
Poor dust extraction.	1) Dust extraction manifold is clogged. 2) The fan belt is bad.	1) Clean inside of jointer and manifold. 2) Replace the belt.
The cutterhead is not spinning.	Bad drive belt.	Replace drive belt.

NOTE: Carbon brush life depends on the amount of load being taken on by the motor. Regularly inspect the brushes after 50 hours of use.

EXPLODED VIEW & PARTS LIST

JT1020H



EXPLODED VIEW & PARTS LIST

JT1020H

No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
1C_S	JT1020H-001ASM	Table Assembly	2	37	JT630H-166	Torx Wrench, T25	1
1C	JT1020H-001	Table	2	38	JT1020H-038	Motor Pulley	1
2C	JT1020H-002	Right Cover	1	39a	JT1020H-039	Cutterhead Pulley	1
3C	JT1020H-003	Outfeed Support	1	40	JT630H-040	Grooved Belt, 125J-5	1
4	JT630H-004	Set Screw M6x8	8	41	JT630H-041	Belt Guard	1
5C	JT1020H-005	Left Cover	1	43	JT1020H-043	Adjustment Screw, M12-1.25x14	8
6	JT630H-006	Round Head Allen Screw M6x12	19	44	JT1020H-044	Dust Port Adapter	1
7	JT630H-007	Round Head Self-Tapping Allen Screw	4	46	JT1020H-046	Hex Socket Screw, M6x30	8
8C	JT1020H-008	Dust Chute	1	48	JT630H-048	Flange Nut	22
9C	JT1020H-009	Foam Seal	1	49C	JT1020H-049	Support Rod	11
12C	JT1020H-012	Front Frame	11	50	JT630H-050	Cord Clamp	1
13C	JT1020H-013	Dust Port	1	51C_S	JT1020H-051ASM	Infeed Support Assembly	1
14_S	JT630H-014ASM	Bearing Retainer Assy.	1	52	JT1020H-052	Extension Rod Lock Knob	4
17	JT1020H-017	External Retaining Ring	1	64	JT630H-064	M8 Hex Nut	1
20	JT630H-020	Pointer	1	70	JT630H-070	Jointer Push Block	2
21	JT630H-021	Gear	1	71	JT630H-071	2.5 mm Hex Wrench	1
23	JT630H-023	Lock Knob M8	2	72	JT630H-072	4 mm Hex Wrench	1
24	JT630H-024	8mm Flat Washer	3	102C_S	JT1020H-102ASM	Cutterhead Guard Assembly	1
25	JT630H-025	Foot	4	110	JT1020H-110	Logo Label	1
26	JT630H-026	External Retaining Ring	5	111	JT1020H-111	Warning Label 1	1
27	JT630H-027	Screw M5-0.8x8	2	112	JT1020H-112	Warning Label 2	1
27a	JT630H-027A	Lock Washer, 5mm	2	114	JT1020H-114	Warning Label 3	1
27b	JT630H-027B	Hex Nut M5	6	115C	JT1020H-115	Cutterhead Warning Label	1
28	JT630H-028	Screw M5-0.8x25	4	117	JT1020H-117	Scale Label	1
29	JT1020H-029	Switch Box	1	125A	JT1020H-125ASM	Fence Assembly	1
30_S	JT1020H-030ASM	Spiral Cutterhead Assembly	1	128	JT630H-128	Bevel Bracket	1
32	BP510H	HSS Blade	20	129	JT630H-129	Square Nut	2
33	JT630H-163	Star Head Cap Screw, M5x15	20	130a	JT1020H-130a	Bracket Rectangular Nut	1
34B	JT1020H-034	Rear Frame	1	130b	JT1020H-130b	Fence Rectangular Nut 1	1
35	JT630H-035	Hole Plug	4	130c	JT1020H-130c	Fence Rectangular Nut 2	1
36_S	JT630H-036ASM	Bearing Retainer Assembly	1				

EXPLODED VIEW & PARTS LIST

JT1020H

No.	Part No.	Description	Qty.
131	JT630H-131	Set Screw M5-0.8x8	2
132	JT630H-132	Intermediate Bracket	1
133B_S	JT1020H-133ASM	Fence Locking Knob Assembly	1
135E_S	JT1020H-135ASM	Fence Bevel Knob Assembly	1
136	JT630H-136	Fence Slide Bracket	1
137	JT630H-137	Fence Bracket	1
138	JT630H-138	Flat Washer	3
139	JT630H-139	Screw M6x16	6

No.	Part No.	Description	Qty.
150a	JT1020H-150	Spring	1
300MS	JT1020H-300ASM	Motor Assembly	1
319	JT1020H-319	Carbon Brush Holder	2
320	JT1020H-320	Carbon Brush	2
321	JT1020H-321	Carbon Brush Cap	2
323	JT630H-323	Switch	1
323a	JT630H-323A	Switch Cover	1
324	JT630H-324	Switch Key	1
325	JT1020H-325	Power Cord	1

JT1224H



EXPLODED VIEW & PARTS LIST

JT1224H

No.	Part No.	Description	Qty.	No.	Part No.	Description	Qty.
1D_S	JT1224H-001ASM	Table Assembly	2	37	JT630H-166	Torx Wrench, T25	1
2D	JT1224H-002	Right Cover	1	38	JT1020H-038	Motor Pulley	1
3C	JT1020H-003	Outfeed Support	1	39B	JT1224H-039	Cutterhead Pulley	1
4	JT630H-004	Set Screw M6x8	8	40	JT630H-040	Grooved Belt, 125J-5	1
5D	JT1224H-005	Left Cover	1	41	JT630H-041	Belt Guard	1
6	JT630H-006	Round Head Allen Screw M6x12	19	43	JT1020H-043	Adjustment Screw, M12-1.25x14	8
7	JT630H-007	Round Head Self-Tapping Allen Screw	4	44	JT1020H-044	Dust Port Adapter	1
8D	JT1224H-008	Dust Chute	1	46	JT1020H-046	Hex Socket Screw, M6x30	8
9D	JT1224H-009	Foam Seal	1	48	JT630H-048	Flange Nut	22
10	JT1224H-010	Foam Seal	1	49D	JT1224H-049	Support Rod	11
12C	JT1020H-012	Front Frame	1	50	JT630H-050	Cord Clamp	1
13D	JT1224H-013	Dust Port	1	51D_S	JT1224H-051ASM	Infeed Support Assembly	1
14_S	JT630H-014ASM	Bearing Retainer Assembly	1	52	JT1020H-052	Extension Rod Lock Knob	4
17	JT1020H-017	External Retaining Ring	1	64	JT630H-064	M8 Hex Nut	1
20	JT630H-020	Pointer	1	70	JT630H-070	Jointer Push Block	2
21	JT630H-021	Gear	1	71	JT630H-071	2.5 mm Hex Wrench	1
23	JT630H-023	Lock Knob M8	2	72	JT630H-072	4 mm Hex Wrench	1
24	JT630H-024	8mm Flat Washer	3	102D_S	JT1224H-102ASM	Cutterhead Guard Assembly	1
25	JT630H-025	Foot	4	110	JT1020H-110	Logo Label	1
26	JT630H-026	External Retaining Ring	1	112	JT1020H-112	Warning Label 1	1
27	JT630H-027	Screw M5-0.8x8	2	114	JT1020H-114	Warning Label 2	1
27a	JT630H-027A	Lock Washer, 5mm	2	115C	JT1020H-115	Cutterhead Warning Label	1
27b	JT630H-027B	Hex Nut M5	6	117	JT1020H-117	Scale Label	1
28	JT630H-028	Screw M5-0.8x25	4	125A	JT1020H-125ASM	Fence Assembly	1
29	JT1020H-029	Switch Box	1	128	JT630H-128	Bevel Bracket	1
31	JT1224H-030ASM	Spiral Cutterhead Assembly	1	129	JT630H-129	Square Nut	2
32	BP510H	HSS Blade	24	130a	JT1020H-130a	Bracket Rectangular Nut	1
33	JT630H-163	Star Head Cap Screw, M5x15	24	130b	JT1020H-130b	Fence Rectangular Nut 1	1
34E	JT1224H-034	Rear Frame	1	130c	JT1020H-130c	Fence Rectangular Nut 2	1
35	JT630H-035	Hole Plug	4	131	JT630H-131	Set Screw M5-0.8x8	2
36_S	JT630H-036ASM	Bearing Retainer Assembly	1				

EXPLODED VIEW & PARTS LIST

JT1224H

No.	Part No.	Description	Qty.
132	JT630H-132	Intermediate Bracket	1
133B_S	JT1020H-133ASM	Fence Locking Knob Assembly	1
135E_S	JT1020H-135ASM	Fence Bevel Knob Assembly	1
136	JT630H-136	Fence Slide Bracket	1
137	JT630H-137	Fence Bracket	1
138	JT630H-138	Flat Washer	3
139	JT630H-139	Screw M6x16	6

No.	Part No.	Description	Qty.
150a	JT1020H-150a	Spring	1
300MS	JT1020H-300ASM	Motor Assembly	1
319	JT1020H-319	Carbon Brush Holder	2
320	JT1020H-320	Carbon Brush	2
321	JT1020H-321	Carbon Brush Cap	2
323	JT630H-323	Switch	1
323a	JT630H-323A	Switch Cover	1
324	JT630H-324	Switch Key	1
325	JT1020H-325	Power Cord	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 1-847-429-9263 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**

