Owner's Manual & Safety Instructions

Save This Manual Keep this manual for the safety warnings and precautions, assembly, operating, inspection, maintenance and cleaning procedures. Write the product's serial number in the back of the manual near the assembly diagram (or month and year of purchase if product has no number). Keep this manual and the receipt in a safe and dry place for future reference. 18l

CHICAGO ELECTRIC POWER TOOLS

40315

7" PORTABLE WET CUTTING TILE SAW



Visit our website at: http://www.harborfreight.com
Email our technical support at: productsupport@harborfreight.com

When unpacking, make sure that the product is intact and undamaged. If any parts are missing or broken, please call 1-888-866-5797 as soon as possible.

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Diagrams within this manual may not be drawn proportionally. Due to continuing improvements, actual product may differ slightly from the product described herein. Tools required for assembly and service may not be included.

⚠WARNING

Read this material before using this product. Failure to do so can result in serious injury. SAVE THIS MANUAL.

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SAFETY

SETUP

OPERATION

MAINTENANCE

CHICAGO ELECTRIC® POWER TOOLS

WARNING SYMBOLS AND DEFINITIONS	
⚠	This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.
⚠DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
⚠WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
⚠CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.
NOTICE CAUTION	Addresses practices not related to personal injury.

IMPORTANT SAFETY INFORMATION

General Tool Safety Warnings

⚠WARNING

Read all safety warnings and instructions.
Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.
Save all warnings and instructions for future reference.

1. KEEP GUARDS IN PLACE and in working order.
2. REMOVE ADJUSTING KEYS AND WRENCHES. Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
3. KEEP WORK AREA CLEAN. Cluttered areas and benches invite accidents.
4. DON'T USE IN DANGEROUS ENVIRONMENT. Don't use power tools in damp or wet locations, or expose them to rain. Keep work area well lighted.
5. KEEP CHILDREN AWAY. All visitors should be kept safe distance from work area.
6. MAKE WORKSHOP KID PROOF with padlocks, master switches, or by removing starter keys.
7. DON'T FORCE TOOL. It will do the job better and safer at the rate for which it was designed.
8. USE RIGHT TOOL. Don't force tool or attachment to do a job for which it was not designed.

Table A: RECOMMENDED MINIMUM WIRE GAUGE FOR EXTENSION CORDS (120 VOLT)				
NAMEPLATE AMPERES (at full load)	**EXTENSION CORD LENGTH**			
	25′	**50′**	**100′**	**150′**
0 – 6	18	16	16	14
6.1 – 10	18	16	14	12
10.1 – 12	16	16	14	12
12.1 – 16	14	12	**Do not use.**	

9. USE PROPER EXTENSION CORD. Make sure your extension cord is in good condition. 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. Table A shows the correct size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number, the heavier the cord.

10. WEAR PROPER APPAREL. Do not wear loose clothing, gloves, neckties, rings, bracelets, or other jewelry which may get caught in moving parts. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.

11. ALWAYS USE SAFETY GLASSES. Also use face or dust mask if cutting operation is dusty. Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.

12. SECURE WORK. Use clamps or a vise to hold work when practical. It's safer than using your hand and it frees both hands to operate tool.

13. DON'T OVERREACH. Keep proper footing and balance at all times.

14. MAINTAIN TOOLS WITH CARE. Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.

15. DISCONNECT TOOLS before servicing; when changing accessories, such as blades, bits, cutters, and the like.

16. REDUCE THE RISK OF UNINTENTIONAL STARTING. Make sure switch is in off position before plugging in.

17. USE RECOMMENDED ACCESSORIES. Consult the owner's manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.

18. NEVER STAND ON TOOL. Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.

19. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function – check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

20. DIRECTION OF FEED. Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

21. NEVER LEAVE TOOL RUNNING UNATTENDED. TURN POWER OFF. Don't leave tool until it comes to a complete stop.

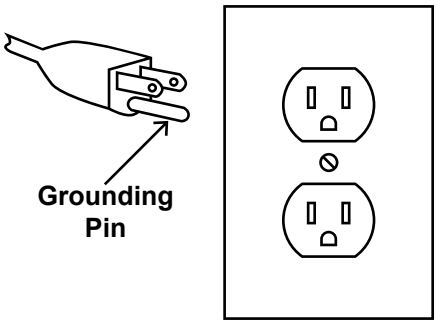
Grounding Instructions

⚠WARNING

TO PREVENT ELECTRIC SHOCK AND DEATH FROM INCORRECT GROUNDING WIRE CONNECTION READ AND FOLLOW THESE INSTRUCTIONS:

110-120 VAC Grounded Tools: Tools with Three Prong Plugs

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having 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.
2. Do not modify the plug provided – if it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The conductor with insulation having an outer surface that is green 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.
4. Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.
5. Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
6. Repair or replace damaged or worn cord immediately.



125 VAC 3-Prong Plug and Outlet (for up to 125 VAC and up to 15 A)

7. This tool is intended for use on a circuit that has an outlet that looks like the one illustrated above in **125 VAC 3-Prong Plug and Outlet**. The tool has a grounding plug that looks like the plug illustrated above in **125 VAC 3-Prong Plug and Outlet**.
8. The outlet must be properly installed and grounded in accordance with all codes and ordinances.
9. Do not use an adapter to connect this tool to a different outlet.

Tile Saw Safety Warnings

For Your Own Safety Read Instruction Manual Before Operating Saw

1. Wear eye protection.
2. Use saw-blade guard and spreader for every operation for which it can be used, including all through sawing.
3. Keep hands out of the line of saw blade.
4. Use an appropriate push-stick when required.
5. Know how to reduce risk of kickback.
6. Do not perform any operation freehand.
7. Never reach around or over saw blade.
8. Make sure the workpiece is supported at all times while sawing.
9. To properly understand all safety warnings, be familiar with the following safety terms and equipment:
10. Featherboard – A block with “fingers” that hold the workpiece against the fence while sawing.
11. Through-sawing – A cut made from one side of a tile to the opposite side, without stopping.
12. Push-stick – A narrow strip of wood or other soft material with a notch cut into one end and which is used to push short pieces of material through saws. It provides a safe distance between the hands and the cutting tool. Must be narrower than the cut width to prevent contact with the blade.
    a. Freehand – Feeding a workpiece through the saw without using a fence or guided support to guide it. **NOT A SAFE METHOD.**
    b. Kerf – The gap made by the saw in the workpiece.
    c. Kickback – A sudden reaction to a pinched, bound, or misaligned blade, causing an uncontrolled workpiece to lift up and out of the saw toward the operator.
    d. Spreader – A metal plate that follows the saw blade to keep the kerf (gap) from closing on the saw blade. Spreaders, except riving knives, must be aligned to the blade after blade adjustment to prevent binding.
13. Riving Knife – A spreader mounted on the same mechanism as the blade. Generally more effective than simple spreaders.
14. As noted previously, **Kickback** is a sudden reaction to a pinched, bound, or misaligned blade, causing an uncontrolled workpiece to lift up and out of the saw toward the operator. Kickback is usually a result of tool misuse and can be limited or avoided by following the precautions below:
    - Fence must be completely parallel to the saw blade.
    - Workpiece must be free from flaws and from foreign objects.
15. Do not use a dull or damaged blade.
16. Maintain control of the workpiece. Do not allow the workpiece to rest against the moving blade without holding onto it.
    - If the blade binds or a cut is interrupted, turn off the power switch and hold the workpiece still until the blade stops. Correct the cause of blade binding before proceeding.
    - Before continuing an unfinished cut, center the blade in the pre-cut kerf and check that the saw is not engaged into the workpiece before turning on the saw.
    - Push the tile past the blade prior to release.
17. Check guards for proper operation with saw disconnected from power before each use. Do not disable any guard. Do not operate saw if any movable guard does not move freely and close instantly. Make sure any movable guard does not touch the blade in all angles, depths of cut, and positions.
18. Keep the guard in place while through-sawing. Verify that the spreader lines up with the blade to prevent binding.
19. Construct an appropriate Push Stick out of wood according to the guidelines on the following page.

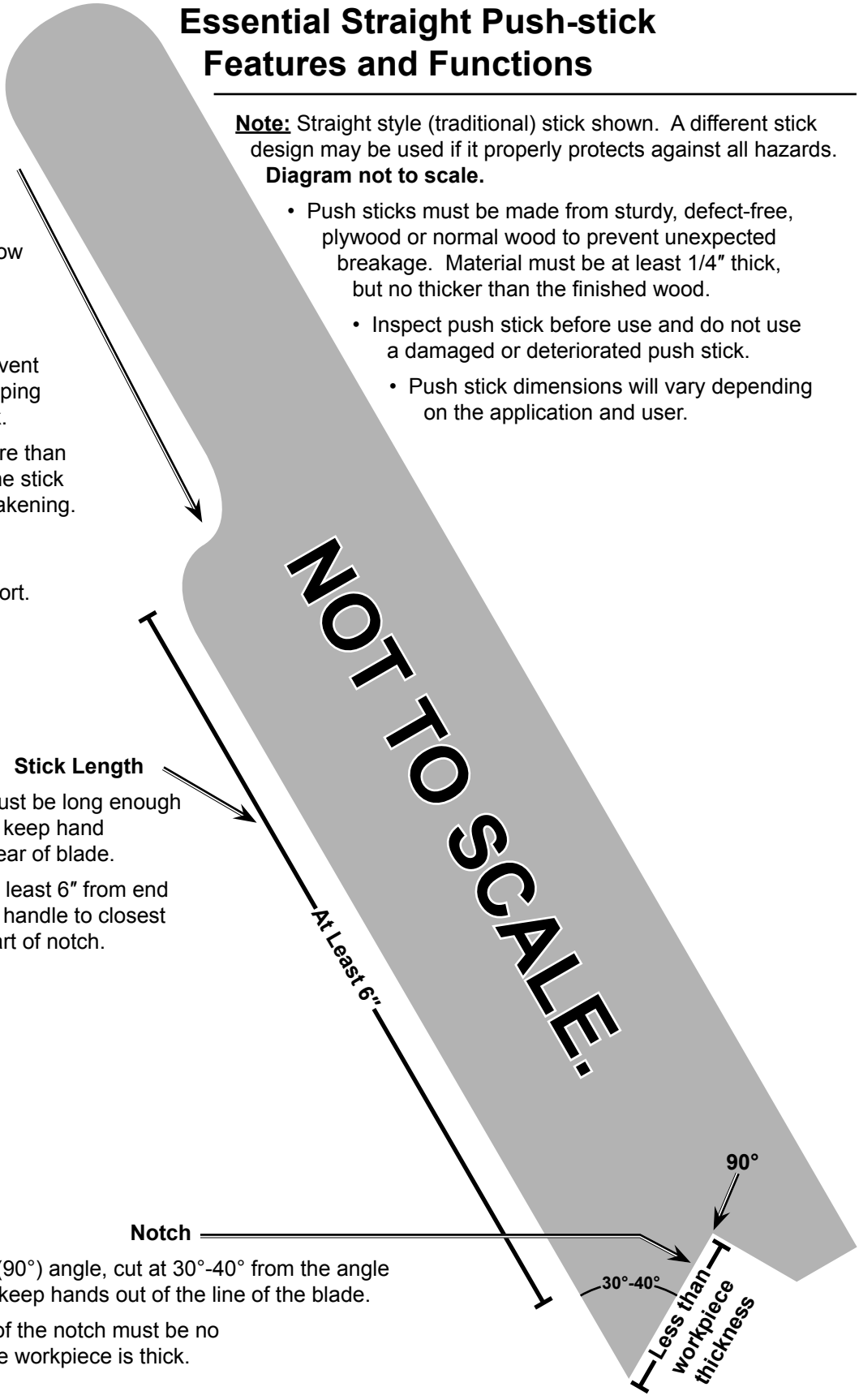
Essential Straight Push-stick Features and Functions

Note: Straight style (traditional) stick shown. A different stick design may be used if it properly protects against all hazards. **Diagram not to scale.**

- Push sticks must be made from sturdy, defect-free, plywood or normal wood to prevent unexpected breakage. Material must be at least 1/4″ thick, but no thicker than the finished wood.
- Inspect push stick before use and do not use a damaged or deteriorated push stick.
- Push stick dimensions will vary depending on the application and user.

Handle Notch

- Must be far enough down the stick to allow a comfortable and firm grip.
- Must be deep enough to prevent hand from slipping down the stick.
- Do not cut more than halfway into the stick to prevent weakening.
- Corners may be rounded to increase comfort.



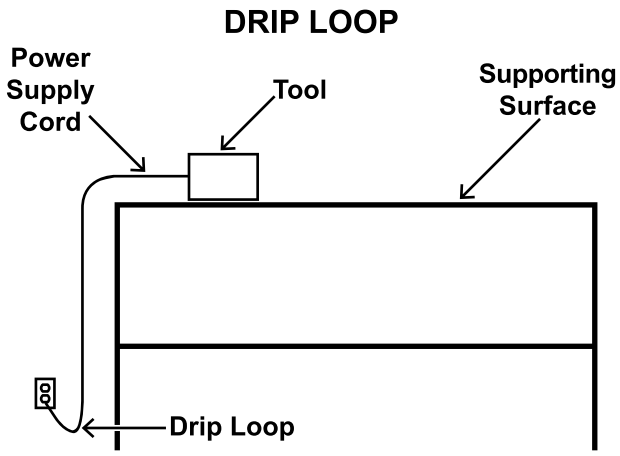
Stick Length

- Must be long enough to keep hand clear of blade.
- At least 6″ from end of handle to closest part of notch.

Notch

- Must be right (90°) angle, cut at 30°-40° from the angle of the stick to keep hands out of the line of the blade.
- The lower lip of the notch must be no longer than the workpiece is thick.

20. **POSITION OF TILE SAW**



1. To avoid the possibility of the tool plug or receptacle getting wet, position tile saw to one side of a wall mounted receptacle to prevent water from dripping onto the receptacle or plug. The user should arrange a “drip loop” in the cord connecting the saw to a receptacle. The “drip loop” is that part of the cord below the level of the receptacle, or the connector if an extension cord is used, to prevent water traveling along the cord and coming in contact with the receptacle.

2. If the plug or receptacle does get wet, DON’T unplug the cord. Disconnect the fuse or circuit breaker that supplies power to the tool. Then unplug and examine for presence of water in the receptacle.

EXTENSION CORDS

3. Use only extension cords that are intended for outdoor use. These extension cords are identified by a marking “Acceptable for use with outdoor tools; store indoors while not in use.” Use only extension cords having an electrical rating not less than the rating of the product. Do not use damaged extension cords. Examine extension cord before using and replace if damaged. Do not abuse extension cords and do not yank on any cord to disconnect. Keep cord away from heat and sharp edges. Always disconnect the extension cord from the receptacle before disconnecting the product from the extension cord.

4. WARNING – To reduce the risk of electrocution, keep all connections dry and off the ground. Do not touch plug with wet hands.

5. Ground Fault Circuit Interrupter (GFCI) protection should be provided on the circuit(s) or outlet(s) to be used for the tile saw. Receptacles are available having built-in GFCI protection and may be used for this measure of safety.

6. **DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED. Moving guards must move freely and close instantly.**

7. The use of accessories or attachments not recommended by the manufacturer may result in a risk of injury to persons.

8. When servicing use only identical replacement parts.

9. Do not depress the spindle lock when starting or during operation.

10. Only use safety equipment that has been approved by an appropriate standards agency. Unapproved safety equipment may not provide adequate protection. Eye protection must be ANSI-approved and breathing protection must be NIOSH-approved for the specific hazards in the work area.

11. 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.

12. Industrial applications must follow OSHA guidelines.

13. Maintain labels and nameplates on the tool. These carry important safety information. If unreadable or missing, contact Harbor Freight Tools for a replacement.

14. Avoid unintentional starting. Prepare to begin work before turning on the tool.

15. People with pacemakers should consult their physician(s) before use. Electromagnetic fields in close proximity to heart pacemaker could cause pacemaker interference or pacemaker failure.

16. The warnings, precautions, and instructions discussed in this instruction manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.

Vibration Safety

This tool vibrates during use. Repeated or long-term exposure to vibration may cause temporary or permanent physical injury, particularly to the hands, arms and shoulders. To reduce the risk of vibration-related injury:

1. Anyone using vibrating tools regularly or for an extended period should first be examined by a doctor and then have regular medical check-ups to ensure medical problems are not being caused or worsened from use. Pregnant women or people who have impaired blood circulation to the hand, past hand injuries, nervous system disorders, diabetes, or Raynaud's Disease should not use this tool. If you feel any medical or physical symptoms related to vibration (such as tingling, numbness, and white or blue fingers), seek medical advice as soon as possible.
2. Do not smoke during use. Nicotine reduces the blood supply to the hands and fingers, increasing the risk of vibration-related injury.
3. Use tools with the lowest vibration when there is a choice between different processes.
4. Include vibration-free periods each day of work.
5. Grip workpiece as lightly as possible (while still keeping safe control of it). Let the tool do the work.
6. To reduce vibration, maintain the tool as explained in this manual. If any abnormal vibration occurs, stop use immediately.

SAVE THESE INSTRUCTIONS.

Specifications

Blade Diameter (Blade Not Included, Sold Separately)	7" (Continuous Rim Diamond Blade Recommended)
Arbor Diameter	5/8"
Maximum Cutting Capacity	1" Thick, 12" Wide
Electrical Rating	120 VAC / 60 Hz / 4.8A Single Phase
Tilting Head	45° for Bevels
No-Load Speed	3,550 RPM
Table Size	15-3/4" x 16-1/2"
Accessories	1 Spanner Wrench 1 Nut Driver

Instructions for putting into use

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

⚠WARNING **TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Turn the Power Switch of the tool to its "OFF" position and unplug the tool from its electrical outlet before assembling or making any adjustments to the tool.**

Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Assembly

To Permanently Mount Tile Saw On A Workbench:

WARNING! Turn the Power Switch (21) off and unplug the Power Cord/Plug (34) from the electrical outlet prior to performing any assembly.

1. The Tile Saw may be *temporarily* placed upon a workbench for use. Also, the Tile Saw may be *permanently* mounted on a workbench.
2. **CAUTION!** Make sure the workbench on which the Tile Saw will be temporarily or permanently used is flat, level, sturdy enough to support the weight of the Tile Saw, any workpieces, and any additional tools, and is not affected by spilled water.
3. To *permanently* mount the Tile Saw on a workbench, place the Tile Saw in the desired work location on the workbench. Use the four **7/16" wide x 3-1/2" long** mounting slots at the base of the Inner Cover (16) as a template to mark the areas where four **7/16" diameter** mounting holes should be drilled through the workbench. WARNING! Before drilling, verify there are no hidden utility wires below work surface.
4. Temporarily remove the Tile Saw, and drill the four 7/16" diameter mounting holes through the workbench, making sure no hidden electric cords or cables are in the drilling path.
5. Once the mounting holes are drilled, align the four 7/16" wide x 3-1/2" long mounting slots in the base of the Inner Cover with the four pre-drilled mounting holes in the workbench. Secure the Tile Saw to the workbench, using four appropriate length bolts, lock washers, and nuts (not included).

Installing/Adjusting the Rip Fence:

1. The Rip Fence (53) is used to set the desired width of cut when cutting a workpiece. Place the Rip Fence on the Table Top to the right of the Blade.
2. Pull up on the Lock Lever, slide the Rip Fence to the desired location, then press the Lock Lever down to lock the Rip Fence in place on the Table Top.

Install The Cutting Wheel Blade:

1. Make certain power is disconnected and the power switch is in the "OFF" position.
2. Empty the Tray (17). Turn it 90° (sideways) and remove it.
3. Remove the Screws (2) and Washers (3). Remove the Front Cover (1) and Rear Blade Cover (58).
4. Use the prongs on the Spanner Wrench (54) to hold the Outside Flange (7) and use the Nut Driver (55) to remove the Arbor Bolt (4).
5. Install a new 7" diameter, 5/8" round arbor hole, wet, diamond-bonded cutting wheel blade rated at a minimum of 3,550 RPM (not included, sold separately). Make sure to install according to indicated rotation direction on Blade.
6. Replace the Outside Flange and Arbor Bolt. Use the Spanner to hold the Outside Flange and tighten the Arbor Bolt securely with the Nut Driver.
7. Replace the Front Cover, Rear Blade Cover, Screws, Washers, and Tray in the reverse order of removal.

Read the ENTIRE IMPORTANT SAFETY INFORMATION section at the beginning of this manual including all text under subheadings therein before set up or use of this product.

Tool Set Up

⚠WARNING **TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Turn the Power Switch of the tool to its "OFF" position and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.**

1. **Use Clamping Plate (56) to secure and support smaller work pieces to the built-in fence.** Holding work by hand or against your body is unstable and may lead to loss of control.
2. **Do not force tool. Use the correct tool for your application.** The correct tool will do the job better and safer at rate for which it is designed.
3. **Do not use the power tool if the Power Switch does not turn it on or off.** Any tool that cannot be controlled with its Power Switch is dangerous and must be replaced.
4. **Disconnect Power Cord Plug from the power source before making any adjustments, changing accessories, or storing the tool.** Such preventive safety measures reduce risk of starting the tool accidentally.
5. **Store idle tools out of reach of children and other untrained persons.** Tools are dangerous in the hands of untrained users.
6. **Maintain tools with care. Keep tools clean.** Properly maintained tools are easier to control. Do not use a damaged tool. Tag damaged tools "Do not use" until repaired.
7. **Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tool's operation. If damaged, have the tool serviced before using.** Many accidents are caused by poorly maintained tools.
8. **Use only accessories that are recommended by the manufacturer for your tool.** Accessories suitable for one tool may become hazardous when used on another tool.

Work Piece and Work Area Set Up

1. **Designate a work area that is clean and well lit.** The work area must not allow access by children or pets to prevent injury and distraction.
2. **Route the power cord along a safe route to reach the work area without creating a tripping hazard or exposing the power cord to possible damage.** The power cord must reach the work area with enough extra length to allow free movement while working.
3. **Secure loose work pieces using clamps (not included) to prevent movement while working.**

General Operating Instructions

1. Fill Tray (17) with water and carefully slide Tray under Blade. Make sure water level is deep enough to cover lower edge of Cutting Wheel Blade, but not so deep as to spill over edge of Tray. (See Figure A, below.)
2. Pull up on the Lock Lever and slide the Rip Fence (53) to set desired cutting *width*. Press the Lock Lever down to lock Rip Fence in place.
3. If necessary, loosen Star Knob (20) and tilt Table (51) to adjust *angle* of cut. Retighten Star Knob.
4. Connect Power Cord/Plug (34) of Tile Saw to the nearest 120 volt, grounded, electrical outlet.
5. **Put on ANSI-approved safety glasses under ANSI-approved safety impact full face shield.**
6. Fill water in Tray to proper level. Turn Power Switch (21) on, and allow Blade to spin up to full speed.
7. Check to make sure Blade is picking up water from Tray. If not, turn off Tile Saw. Unplug machine, and refill Tray to appropriate level. Restart Tile Saw.
8. Place workpiece you are cutting firmly against Rip Fence and slowly feed workpiece into Blade.
9. **CAUTION!** Keep hands and fingers away from Blade. Also hold the workpiece you are cutting firmly against Rip Fence throughout cutting process. Failure to do so may cause workpiece to be propelled by Blade toward your body and/or into Saw.
10. Once cut is complete, turn Power Switch off. Unplug Power Cord/Plug from its electrical outlet. Allow Blade to stop on its own. Then remove the workpiece and any scrap material from the Table of Saw.
11. Remove and empty Tray of its contents, and thoroughly rinse with clean, cold water. Replace Tray.
12. Store Saw in a safe, clean, dry location out of reach of children and other unauthorized people.

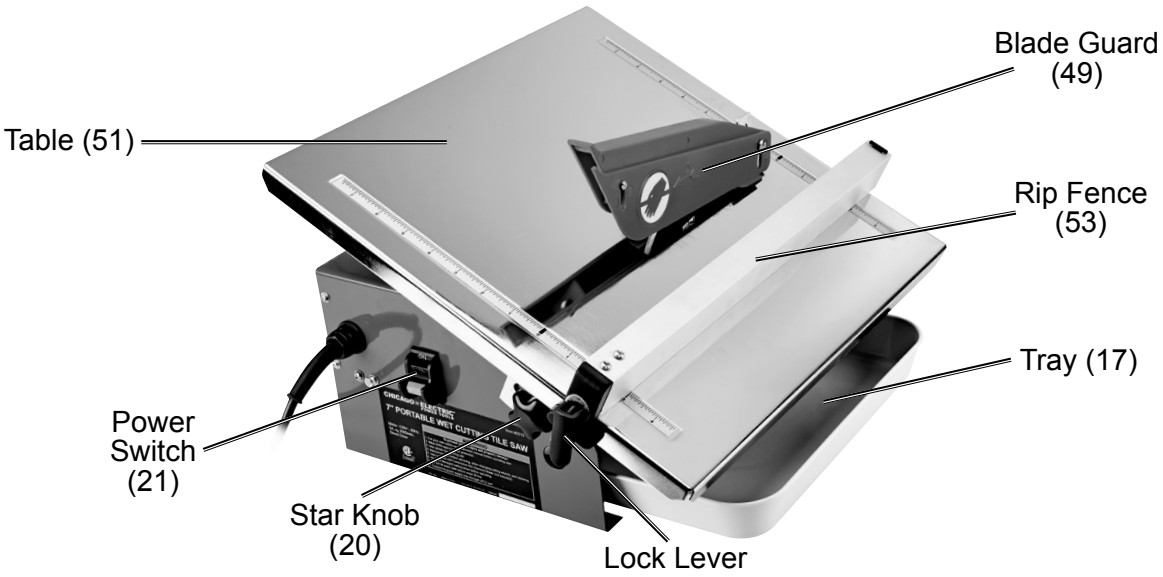


Figure A

Maintenance And Servicing

Procedures not specifically explained in this manual must be performed only by a qualified technician.

⚠WARNING **TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION: Turn the Power Switch of the tool to its "OFF" position and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning procedures.**

TO PREVENT SERIOUS INJURY FROM TOOL FAILURE:
Do not use damaged equipment. If abnormal noise or vibration occurs, have the problem corrected before further use.

Cleaning, Maintenance, and Lubrication

1. **BEFORE EACH USE,** inspect the general condition of the tool. Check for loose screws, misalignment or binding of moving parts, cracked or broken parts, damaged electrical wiring, loose or worn out blade, and any other condition that may affect its safe operation.
2. **AFTER USE,** clean external surfaces of the tool with clean cloth. Drain water from the water tray and wash out any residue.
3. **Tool service must be performed only by qualified repair personnel.** Service or maintenance performed by unqualified personnel could result in a risk of injury.
4. **When servicing a tool, use only identical replacement parts. Follow instructions in the *"Inspection, Maintenance, And Cleaning"* section of this manual.** Use of unauthorized parts or failure to follow maintenance instructions may create a risk of electric shock or injury.
5. **⚠WARNING! If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.**
6. **⚠WARNING! Turn the Power Switch (21) off and unplug the tool from its electrical outlet before performing any inspection, maintenance, or cleaning.**
7. **To install a Cutting Wheel Blade:**
   A. Make certain power is disconnected and the power switch is in the "OFF" position.
   B. Empty the Tray (17). Turn it 90° (sideways) and remove it.
   C. Remove the Screws (2) and Washers (3). Remove the Front Cover (1), and Rear Blade Cover (58).
   D. Use the prongs on the Spanner Wrench (54) to hold the Outside Flange (7) while you use the Nut Driver (55) to remove the Arbor Bolt (4). Remove the old Cutting Wheel Blade.
   E. Install a new 7″ Continuous Rim Diamond Blade (not included, sold separately), making sure to install Blade according to indicated rotation direction on Blade.
   F. Replace the Outside Flange and Arbor Bolt. Use the Spanner to hold the Outside Flange while you tighten the Arbor Bolt securely with the Nut Driver. Do not overtighten.
   G. Replace the Front Cover, Rear Blade Cover, Screws, Washers, and Tray in the reverse order of removal.
8. **To clean:** Wipe with a damp cloth, vacuum or use compressed air. Do not use solvents.
9. **When storing:** Store the Tile Saw in a safe, clean, dry, location out of reach of children and other unauthorized people.
10. **CAUTION!** All maintenance, service, or repairs not listed in this manual are only to be attempted by a qualified service technician.

Troubleshooting

Problem	Possible Causes	Likely Solutions
Tool will not start	1. No power at outlet. 2. Cord not connected.	1. Check power at outlet. 2. Check that cord is plugged in.
Blade spins slowly	1. Arbor shaft binding 2. Motor brushes worn	1. Check shaft for free spinning. 2. Replace brushes.
Excessive vibration	1. Bent or off-balance blade. 2. Bent Arbor Shaft.	1. Replace blade with new one. 2. Check shaft for run-out.
Running hot; excess dust or chips or not cutting clean	1. Water flow problem. 2. Not cutting tile cleanly. 3. Running with hot/warm water.	1. Check water level; fill to proper level. 2. Turn off Saw; let cool and turn back on, slowing feed rate. 3. Always run with cold water.



Follow all safety precautions whenever diagnosing or servicing the tool.
Disconnect power supply before service.

PLEASE READ THE FOLLOWING CAREFULLY

THE MANUFACTURER AND/OR DISTRIBUTOR HAS PROVIDED THE PARTS LIST AND ASSEMBLY DIAGRAM IN THIS MANUAL AS A REFERENCE TOOL ONLY. NEITHER THE MANUFACTURER OR DISTRIBUTOR MAKES ANY REPRESENTATION OR WARRANTY OF ANY KIND TO THE BUYER THAT HE OR SHE IS QUALIFIED TO MAKE ANY REPAIRS TO THE PRODUCT, OR THAT HE OR SHE IS QUALIFIED TO REPLACE ANY PARTS OF THE PRODUCT. IN FACT, THE MANUFACTURER AND/OR DISTRIBUTOR EXPRESSLY STATES THAT ALL REPAIRS AND PARTS REPLACEMENTS SHOULD BE UNDERTAKEN BY CERTIFIED AND LICENSED TECHNICIANS, AND NOT BY THE BUYER. THE BUYER ASSUMES ALL RISK AND LIABILITY ARISING OUT OF HIS OR HER REPAIRS TO THE ORIGINAL PRODUCT OR REPLACEMENT PARTS THERETO, OR ARISING OUT OF HIS OR HER INSTALLATION OF REPLACEMENT PARTS THERETO.

Parts List

Part	Description
1	Front Cover
2	Screw M4x10
3	Washer M4
4	Arbor Bolt
7	Outside Flange
8	7" Blade (sold separately)
9	Inner Flange
10	Scaling Ring
11	Bolt M5x12
12	Lock Washer M5
13	Washer M5
14	Bolt M3x6
15	Splitter
16	Inner Cover
17	Tray
18	Nut M6
19	Bolt M6x10
20	Star Knob M8x16

Part	Description
21	Power Switch
22	Switch Seal
23	Switch Cover
24	Inlet Clip
25	Rubber Collar
26	Washer M4
27	Screw M4x10
28	Copper Nut M4
29	Lock Washer M4
30	Washer M4
31	Cold Pressed Terminal
32	Copper Screw M4x22
33	Insulation Line
34	Power Cord/Plug
35	Nameplate
36	Ground Sign
37	3 Hole, 10 A Connector
38	Cord Clamp

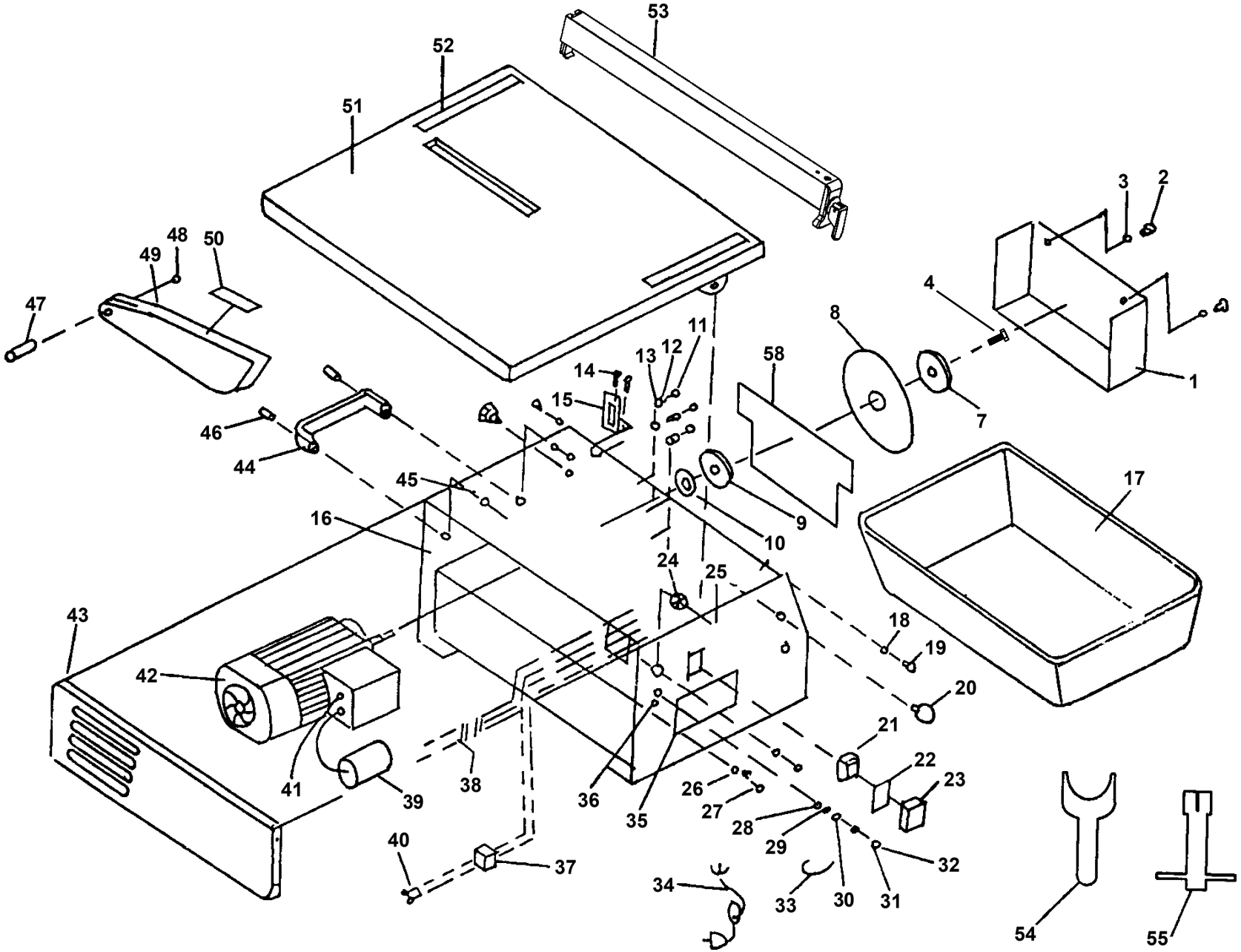
Part	Description
39	Capacitor
40	Screw M3x16
41	Motor Lead Wire
42	Motor
43	Rear Cover
44	Handle
45	Washer M6
46	Bolt M6x10
47	Holder
48	Square Cap
49	Blade Guard
50	Safety Label
51	Table
52	Ruler
53	Rip Fence
54	Spanner Wrench
55	Nut Driver
58	Rear Blade Cover

Record Product's Serial Number Here:_____

Note: If product has no serial number, record month and year of purchase instead.

Note: Some parts are listed and shown for illustration purposes only, and are not available individually as replacement parts.

Assembly Diagram



For technical questions, please call 1-888-866-5797.

Limited 90 Day Warranty

Harbor Freight Tools Co. makes every effort to assure that its products meet high quality and durability standards, and warrants to the original purchaser that this product is free from defects in materials and workmanship for the period of 90 days from the date of purchase. This warranty does not apply to damage due directly or indirectly, to misuse, abuse, negligence or accidents, repairs or alterations outside our facilities, criminal activity, improper installation, normal wear and tear, or to lack of maintenance. We shall in no event be liable for death, injuries to persons or property, or for incidental, contingent, special or consequential damages arising from the use of our product. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation of exclusion may not apply to you. THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS.

To take advantage of this warranty, the product or part must be returned to us with transportation charges prepaid. Proof of purchase date and an explanation of the complaint must accompany the merchandise. If our inspection verifies the defect, we will either repair or replace the product at our election or we may elect to refund the purchase price if we cannot readily and quickly provide you with a replacement. We will return repaired products at our expense, but if we determine there is no defect, or that the defect resulted from causes not within the scope of our warranty, then you must bear the cost of returning the product.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

CHICAGO ELECTRIC® POWER TOOLS

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