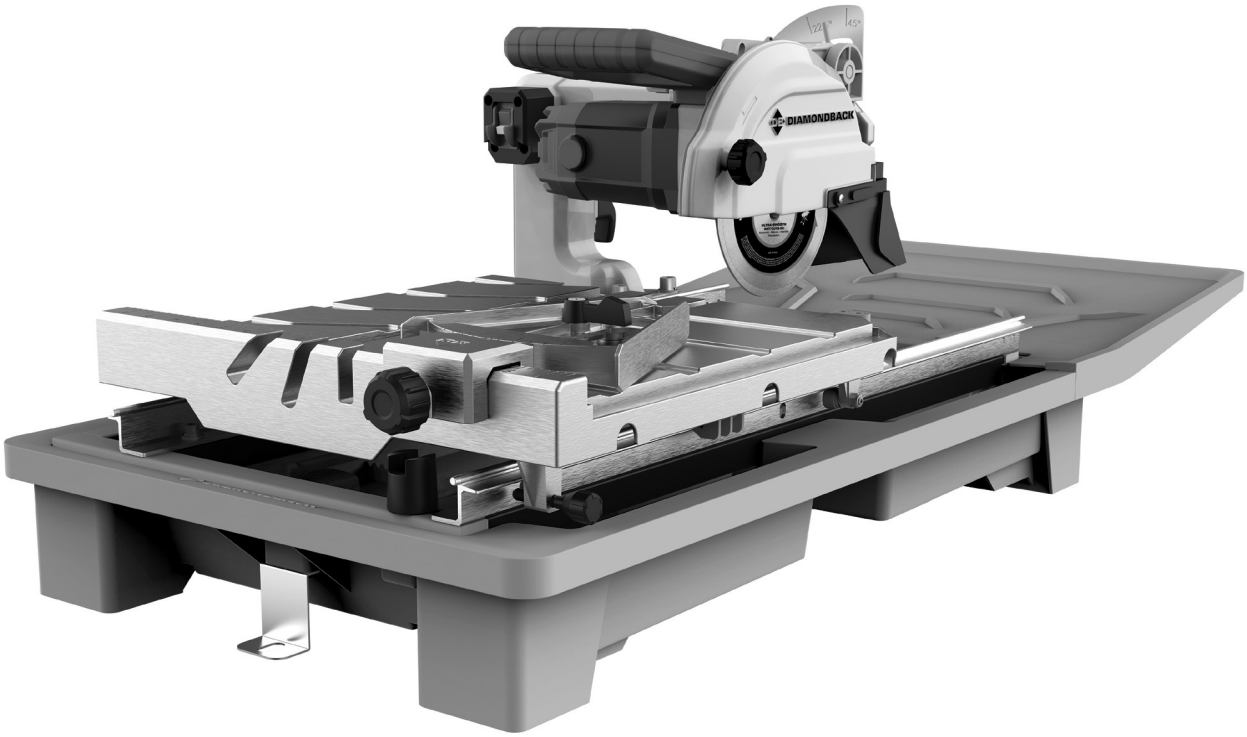
Owner's Manual & Safety Instructions

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. 18j

DIAMONDBACK®

7" HEAVY-DUTY TILE SAW WITH SLIDING TABLE



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

64683

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.

Copyright© 2018 by Harbor Freight Tools®. All rights reserved.
No portion of this manual or any artwork contained herein may be reproduced in any shape or form without the express written consent of Harbor Freight Tools.
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.

Table of Contents

Safety 2
Specifications 6
Setup 7
Operation 11
Maintenance 15
Parts List and Diagram 17
Warranty 20

DIAMONDBACK

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.
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.

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.	

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



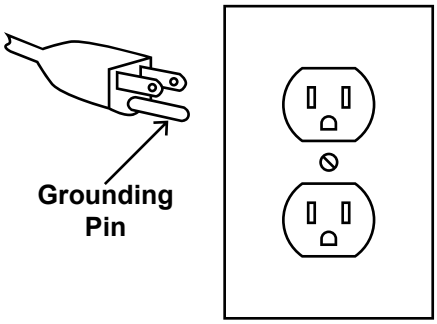
⚠WARNING

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)

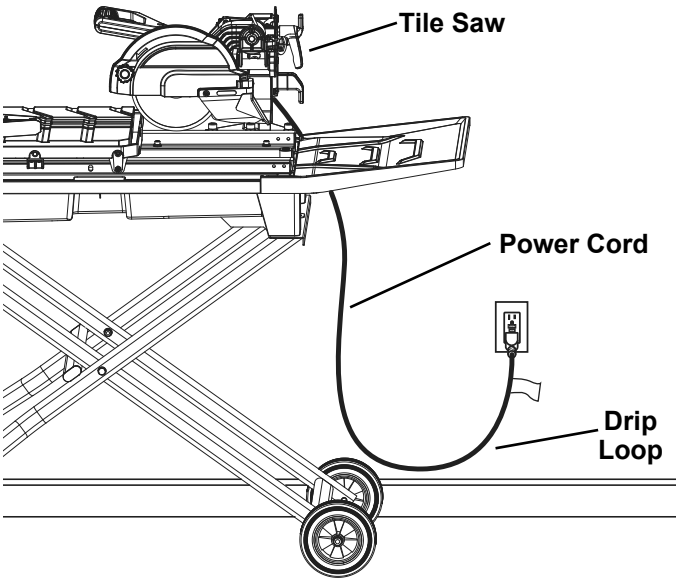
7. This tool is intended for use on a circuit that has an outlet that looks like the one illustrated above in **125 VAC 3-Prong Plug and Outlet**. The tool has a grounding plug that looks like the plug illustrated above in **125 VAC 3-Prong Plug and Outlet**.
8. The outlet must be properly installed 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:
   a. Featherboard – A block with “fingers” that hold the workpiece against the fence while sawing.
   b. Through-sawing – A cut made from one side of a tile to the opposite side, without stopping.
   c. 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.
   d. Freehand – Feeding a workpiece through the saw without using a fence or guided support to guide it. **NOT A SAFE METHOD.**
   e. Kerf – The gap made by the saw in the workpiece.
   f. 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.
   g. 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.
10. 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.
11. Do not use a dull or damaged blade.
12. 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.
13. 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.
14. Keep the guard in place while through-sawing. Verify that the spreader lines up with the blade to prevent binding.

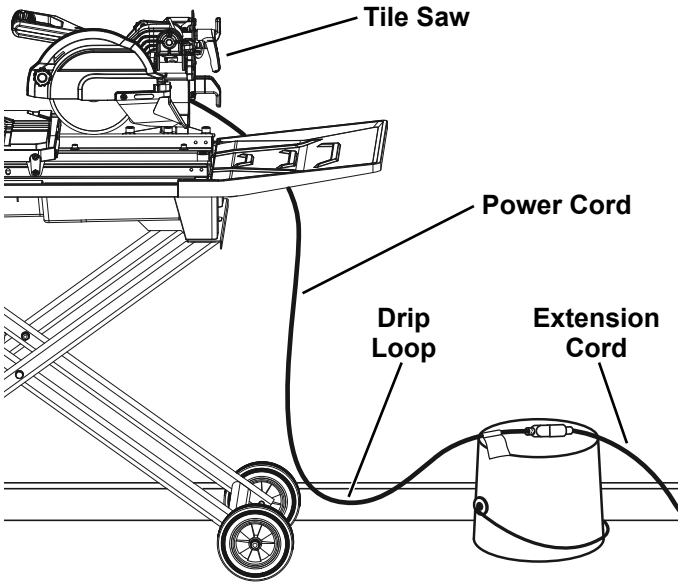
POSITION OF TILE SAW



Drip Loop

15. 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.

16. 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 Cord Drip Loop

17. If an extension cord is used, the drip loop must be before the cord connection and the extension cord connection must be placed on an elevated surface.

EXTENSION CORDS

18. 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.

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

20. 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.

ADDITIONAL TILE SAW SAFETY WARNINGS

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

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

23. When servicing use only identical replacement parts.

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

25. Remove the Safety Key after each use. Store the Safety Key separate from the tool and out of children's reach.

26. 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.

27. 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.

28. Industrial applications must follow OSHA guidelines.

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

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

31. 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.

32. 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.

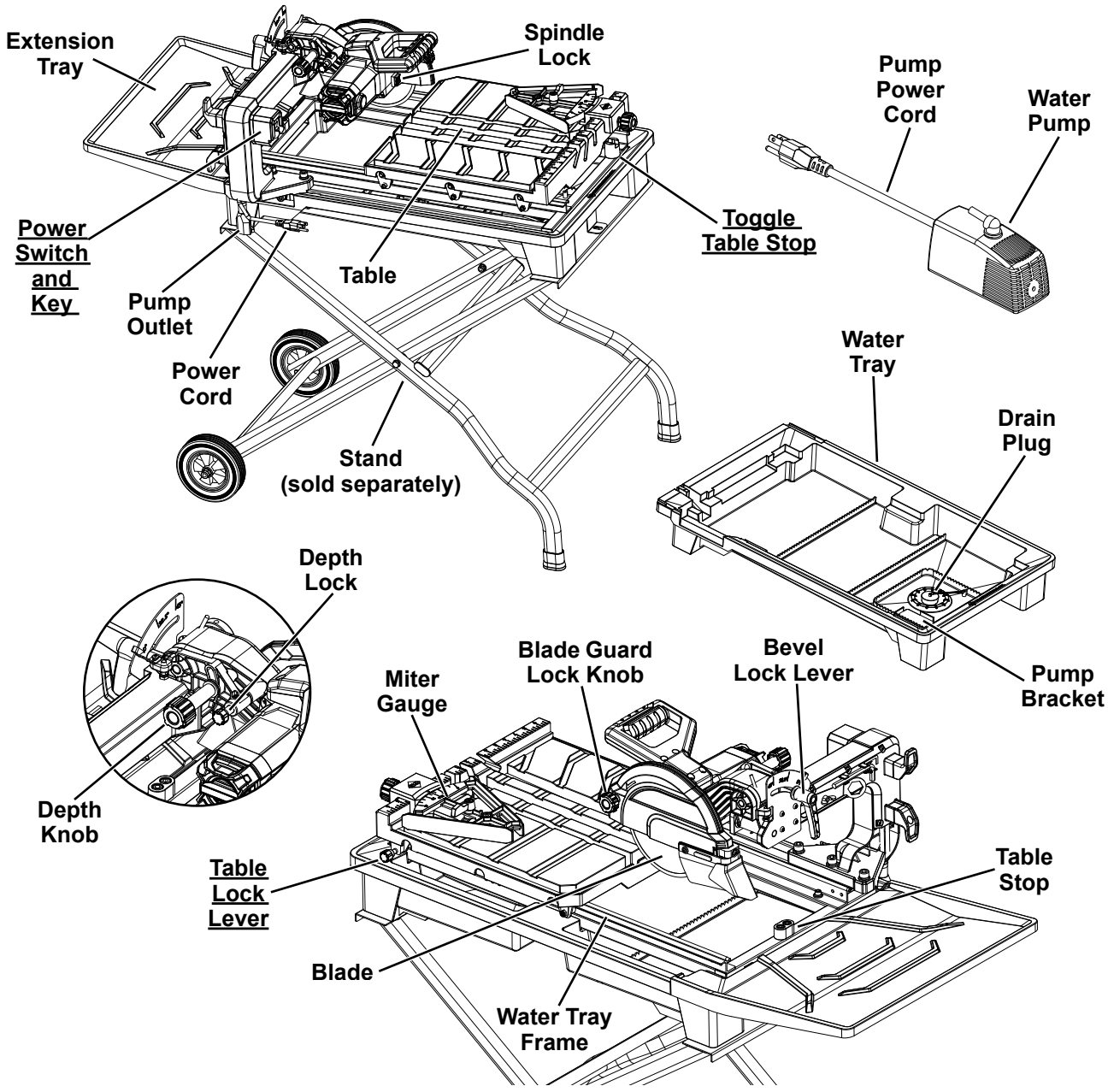
SAVE THESE INSTRUCTIONS.

Specifications

Electrical Rating	120VAC / 60Hz / 10A
Motor No Load Speed	6000 RPM
Max. Blade Diameter	7"
Arbor Size	5/8"

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.

Functions



Power Switch: The Power Switch includes a Key for safety. The Tile Saw switch cannot be turned on without the key. Remove the Safety Key after use.

Table Lock Lever: To lock the Table in place, line up this Lever's pin with the hole in the rail, and press the Lever towards the rail. Pull out on the Lever to unlock the Table.

Toggle Table Stop: This allows the Table to be removed if needed. Lift the Stop and turn it to lock/unlock. If the slot is aligned with the Table, the Table can be removed. If the slot is turned sideways, the Table is locked into the saw.

ASSEMBLY

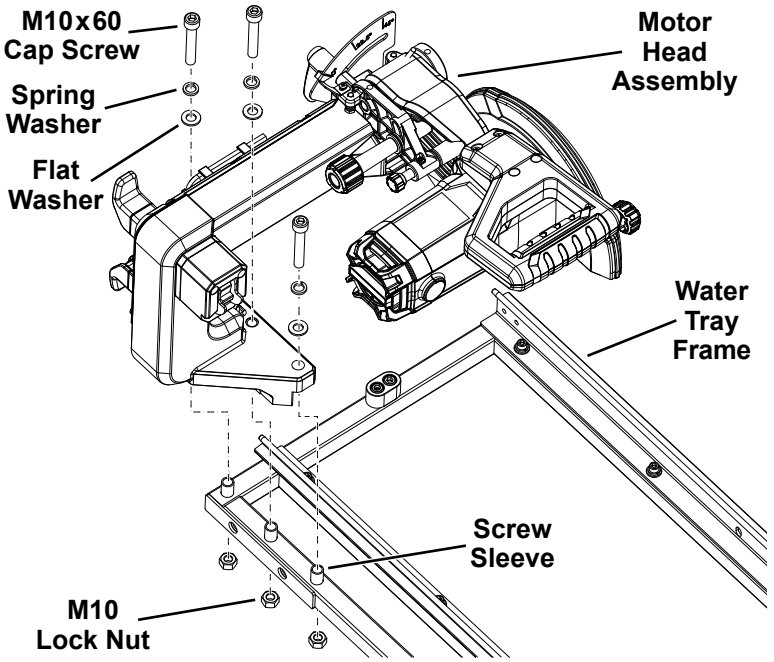
⚠WARNING

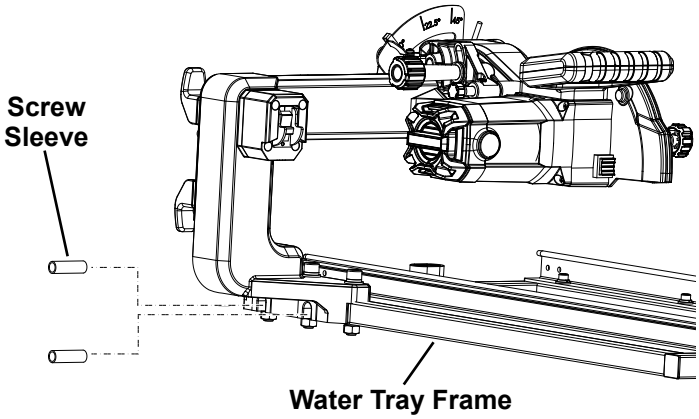
TO PREVENT SERIOUS INJURY FROM ACCIDENTAL OPERATION:
Turn the Power Switch of the tool off, remove the Safety Key, and unplug the tool from its electrical outlet before performing any procedure in this section.

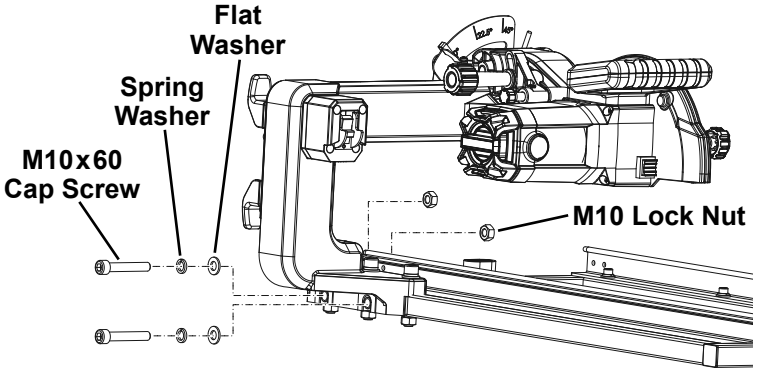
Note: For additional information regarding the parts listed in the following pages, refer to the Assembly Diagram near the end of this manual.

Installing Motor Head

1. Place three Screw Sleeves (128) into top mounting holes on Water Tray Frame (120) as shown.
2. Align the holes in the Motor Head Assembly with the corresponding mounting holes on the top of the Water Tray Frame.
3. Insert three M10x60 Socket Head Cap Screws (131) through three Spring Washers (130), Flat Washers (129), the Motor Head Assembly, and the Water Tray Frame. Secure using M10 Lock Nuts (127). Finger tighten.
4. Place two Screw Sleeves (128) into side mounting holes on Water Tray Frame as shown.
5. Insert two M10x60 Socket Head Cap Screws (131) through two Spring Washers (130), Flat Washers (129), the Motor Head Assembly, and then into side mounting holes on the Water Tray Frame. Secure using M10 Lock Nuts (127).
6. Tighten three previously installed M10x60 Socket Head Cap Screws securely.
7. With assistance, place the completed Motor Head/Water Tray Frame assembly on the Water Tray (77).



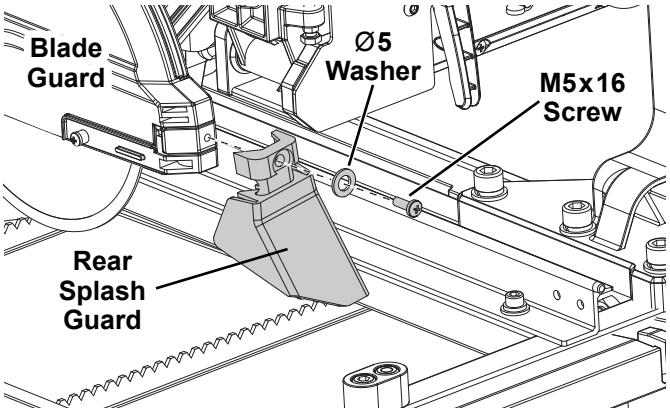




Motor Head Installation

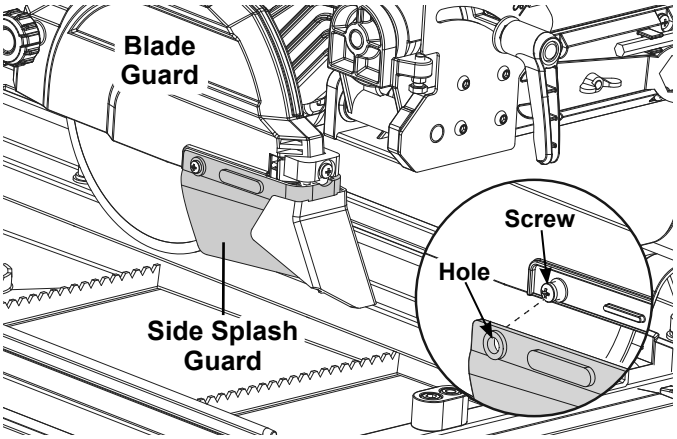
Installing Splash Guards

1. Attach the Rear Splash Guard (40) to the back of the Blade Guard with a Ø5 Flat Washer (11) and M5x16 Pan Head Screw (14).



2. Align the hole on each end of the Side Splash Guard (39) to the screw on each side of the Blade Guard and press the holes on the Splash Guard over the screws.

Note: It is not necessary to loosen or remove the screws on the Blade Guard to install the Side Splash Guard.



Splash Guard Installation

Installing the Table

1. On the right side of the Table (61), pull the Table Lock Lever (83) out. Rotate the Toggle Table Stop (118) to the unlock position.

2. Hold the Table parallel with the Water Tray Frame (5), set the Table rollers on the Frame rails and push the Table toward the back of the saw.

3. Push the Table back along the Frame rails until the final set of rollers engage the rails. Rotate the Toggle Table Stop to the lock position.

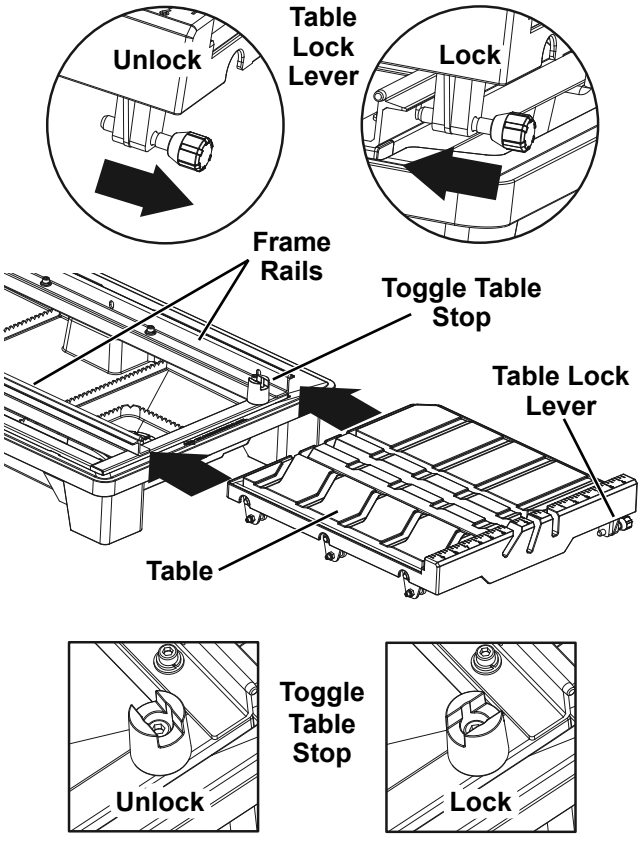
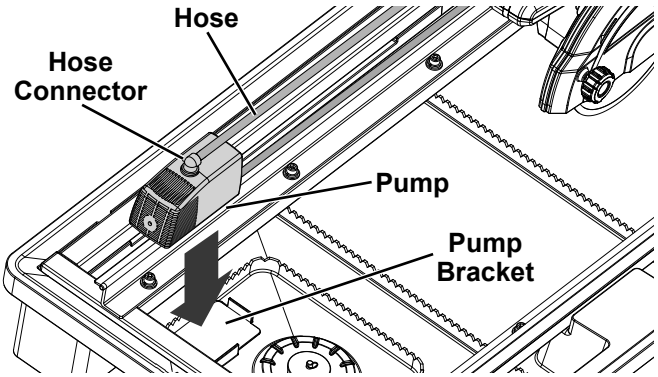


Table Installation

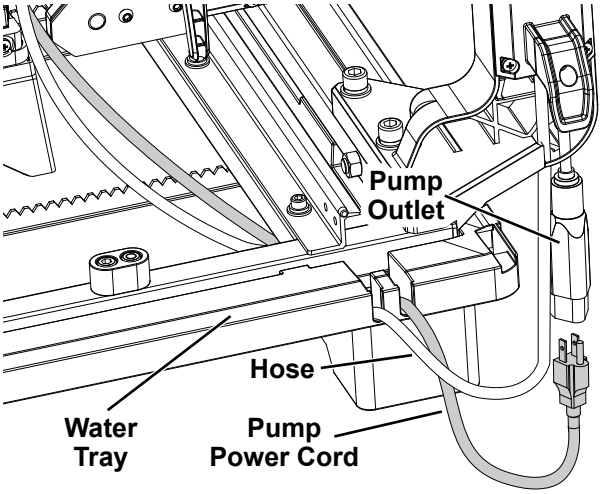
Water Tray and Pump Setup

1. Place the Pump (167) into the Pump Bracket. Press down firmly on the Pump to attach its suction feet to the bottom of the Water Tray. Insert the Clear Hose into the Water Tray through the slotted opening and connect Hose to the barbed Hose Connector fitting.



2. Adjust position of Pump or Hose as needed to ensure the Hose does not contact the bottom of the Table or interfere with Table movement.

3. **Dry your hands and unplug the Tile Saw.** Position the Pump Power Cord in the slotted opening on the Water Tray as shown. Push back rubber boot on the Pump Outlet and plug Pump Power Cord into Outlet. Pull rubber boot back into place to cover the connection to help keep water off plug.



Pump Setup

Mounting Saw to Stand

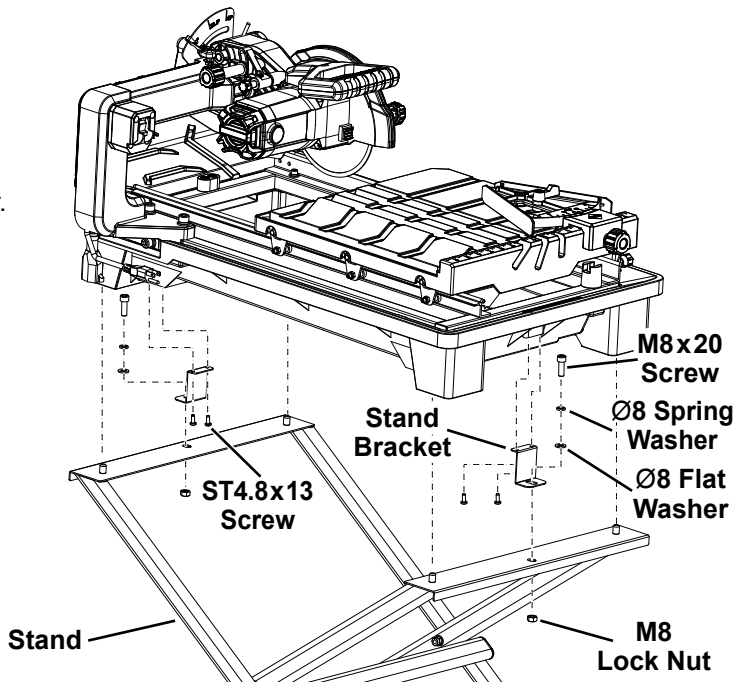
1. Lock the Toggle Table Stop by pulling up on it and turning it until the slot in the center of the Stop is horizontal (left to right).

2. Pull the Table to the front of the Frame. From under the right side of the Table, align the hole in the rail with the pin in the Table Lock Lever. Push the pin into the rail, locking the Table.

3. Attach two Stand Brackets (150) to ends of Water Tray using two ST4.8x13 Screws (1) per Bracket.

4. With assistance, align four holes on Water Tray with mounting pegs on Stand and place Saw on Stand, making sure pegs are fully inserted. Align the mounting holes on the Stand Brackets with the holes on the Stand (stand and mounting hardware sold separately).

5. Insert M8x20 Socket Head Cap Screws through Ø8 Spring Washers, Ø8 Flat Washers and into mounting holes. Secure using M8 Lock Nuts.



Mounting Saw to Stand

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 off, remove the Safety Key, and unplug the tool from its electrical outlet before performing any procedure in this section.

TO PREVENT SERIOUS INJURY:
DO NOT OPERATE WITH ANY GUARD DISABLED, DAMAGED, OR REMOVED.

Installing Blade

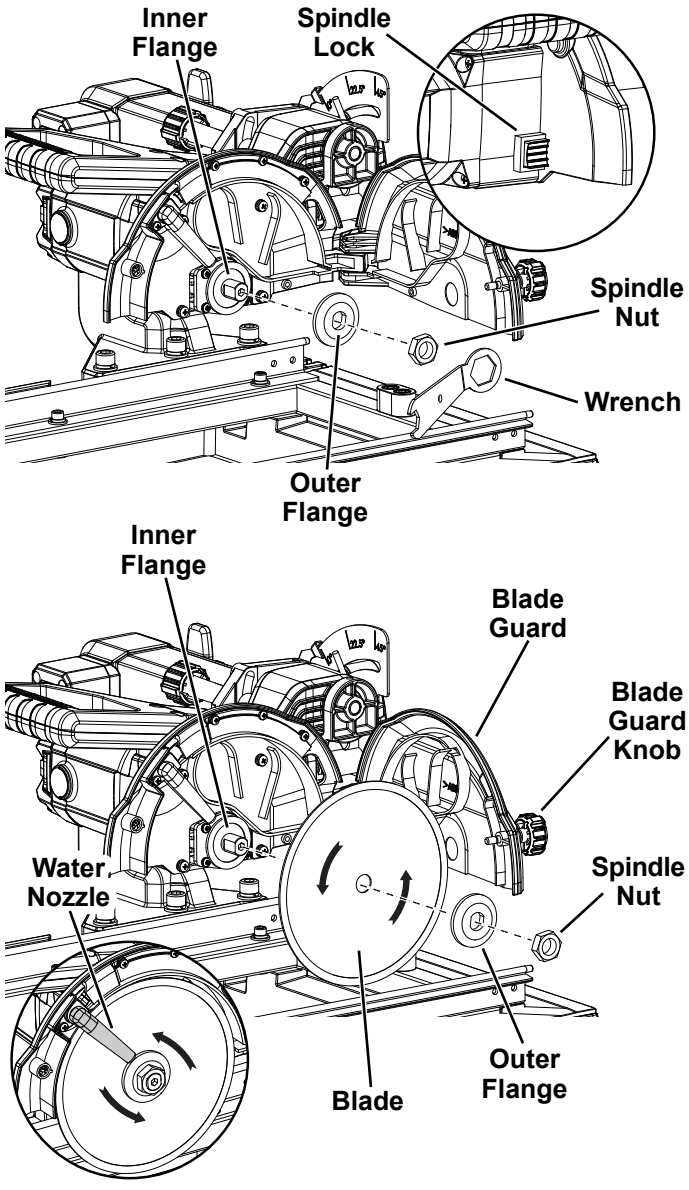
1. Unplug the Saw.
2. Turn the Blade Guard Knob counterclockwise. Open the Blade Guard to expose the Spindle.
3. Press and hold the Spindle Lock in. Loosen the Spindle Nut counterclockwise and remove the Nut, Outer Flange, and old Blade, if installed.
4. Leave the Inner Flange on the Spindle, making sure the cupped side of the Flange is facing the Tile Saw housing.
5. Wipe a drop of oil onto the Inner Flange where it will contact the Blade.

WARNING! TO PREVENT SERIOUS INJURY:
Only use a smooth rim, wet cutting, 7″ Blade rated to at least 6000 RPM on this tool.
Do not use a Blade that is too thick to allow Outer Flange to engage with the flats on the Spindle. Do not use a Blade that has openings, grooves, or teeth.

6. Slide the Blade (sold separately) onto Spindle. Make sure that the Blade's rotation arrow points in the same direction as the rotation arrow on the Blade Guard

Note: The Saw is equipped with two Water Nozzles to wet the Blade during operation. Make sure holes in Nozzles face the Blade and that Blade is positioned between the two Nozzles.

7. Place Outer Flange onto the Spindle. The flats on the Outer Flange align with the flats on the Spindle. Install with the cupped side of the Outer Flange facing the blade.
8. Place Spindle Nut on Spindle. Press and hold the Spindle Lock in. Wrench-tighten Spindle Nut securely. Release the Spindle Lock.
9. Close the Blade Guard, and use the Guard Knob to secure it.

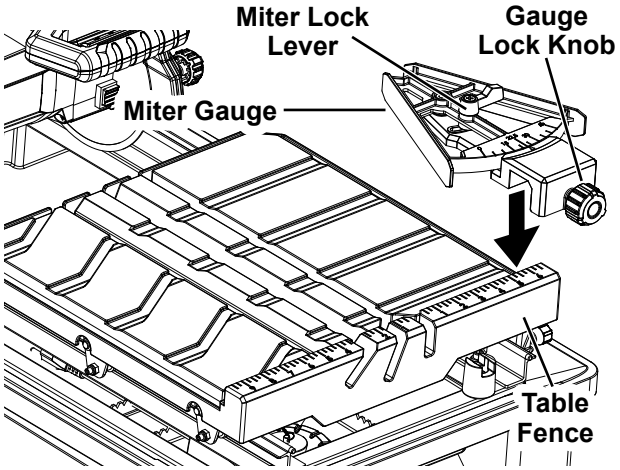


Blade Installation

Miter Adjustment

Note: The Miter Gauge can be used from either the left or the right side of the Blade.

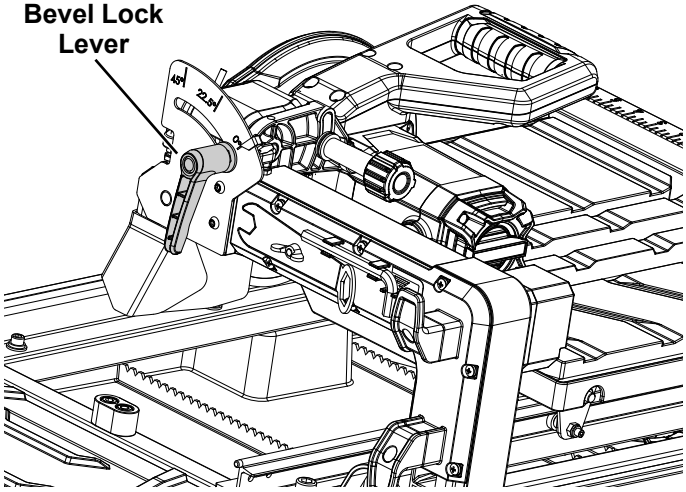
1. Place the slot on the underside of the Miter Gauge on the Table Fence.
2. Lock the Miter Gauge securely to the table by turning the Gauge Lock Knob clockwise.
3. To adjust angles:
   a. Loosen the Miter Lock Lever.
   b. Set to the desired angle by moving the Gauge left or right.
   c. Tighten the Miter Lock Lever securely before turning on the Saw.



Miter Gauge

Bevel Adjustment

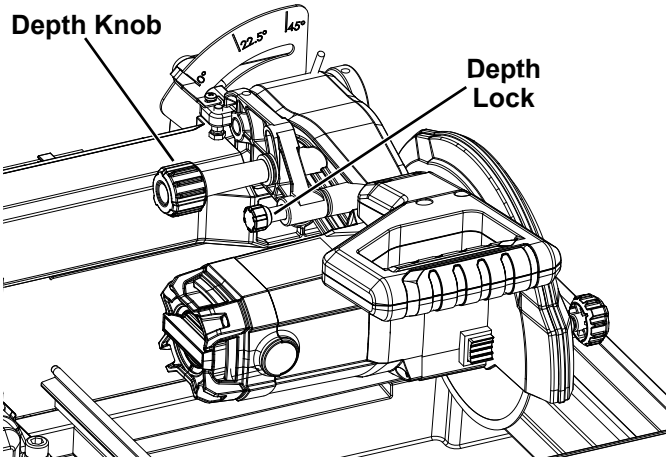
1. **Slide the Table clear of the Blade to prevent blade damage.**
2. Loosen the Bevel Lock Lever.
3. Adjust the Motor Head to the desired angle: **0º, 22.5º or 45º**. **Do not set bevel to any other setting.** The slots in the Table are designed **only** for these cuts.
4. Tighten the Bevel Lock Lever.



Bevel Lock Lever

Depth Adjustment

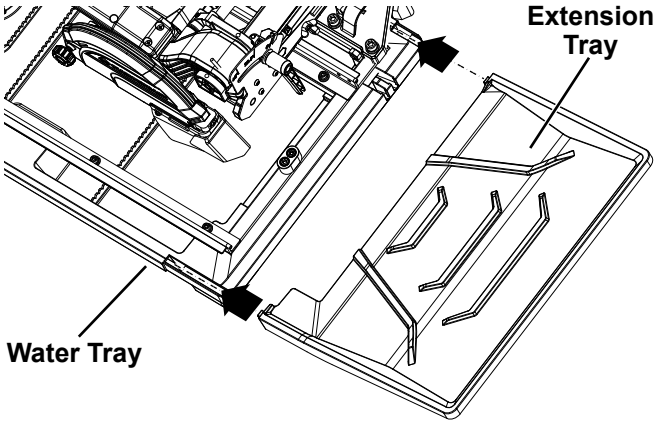
1. **Depth Lock:** Use the Depth Lock to lock the Motor Head in the down position; press it in while the Motor Head is down to lock, and pull out while holding down the Motor Head to unlock.
2. **Depth Knob:** The Depth Knob can be used to lock the Motor Head at a particular cutting depth; tighten it to lock the Motor Head in place, loosen it to allow adjustment.



Depth Controls

Installing Extension Tray

Standing at back of Saw, place the tabs on the Extension Tray (149) into the corresponding holes in the Water Tray and push the Extension Tray down to a horizontal position.



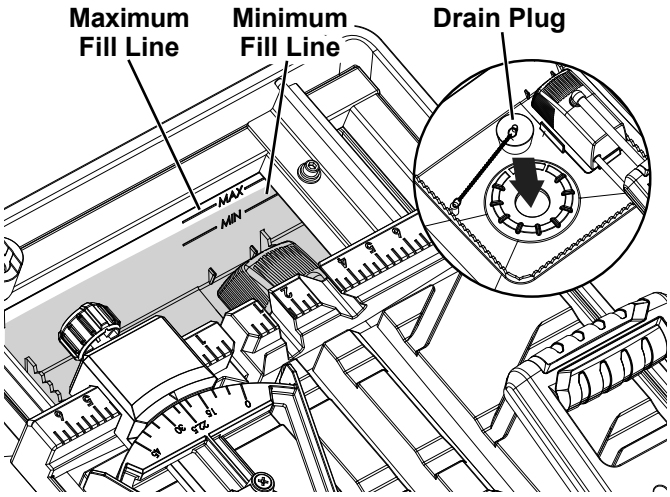
Extension Tray Installation

Filling the Water Tray

1. Place the Drain Plug into the hole on the bottom of the Water Tray.

2. Fill the Water Tray with clean water up to the Maximum Fill Line before every use.

NOTICE: Water level must be kept above Minimum Fill Line at all times during operation or damage to the Pump and/or Saw Blade will occur.



Filling Water Tray

Workpiece 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 distraction and injury.

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. There must not be objects, such as utility lines, nearby that will present a hazard while working.

4. Keep workpieces pressed firmly against the Table and Fence while cutting.

5. Mark cut lines using waterproof marker or crayon.

Note: This tool is intended for use on man-made masonry and tile products only.

General Operating Instructions

1. Adjust the Miter, Bevel, and Depth settings as needed. Refer to page 12. Lock all settings in place.

2. Place the workpiece on the Table and firmly against the Miter Gauge and Fence.

3. Make sure the workpiece is clear of the Blade and that the Switch is in the off-position, then plug in the tool.

4. Insert the Safety Key and lift the Power Switch up to the ON position.

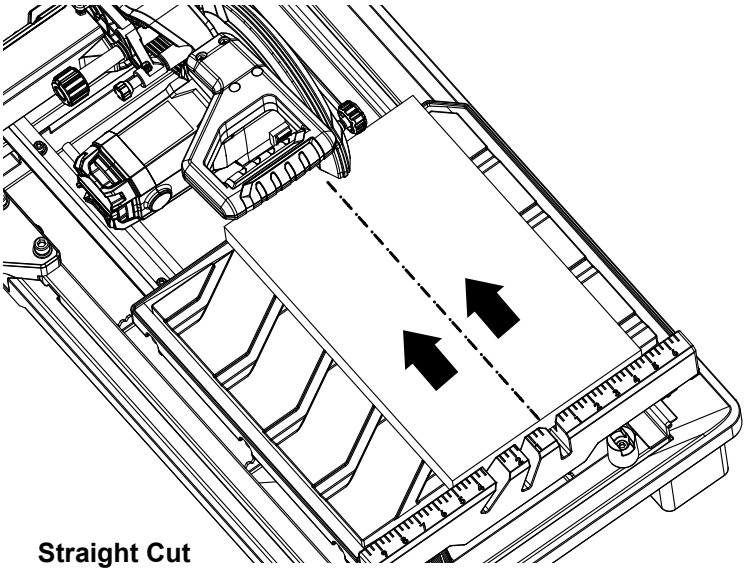
5. With the Saw running, make sure the Pump is supplying enough water to the Blade. If needed, dry your hands, turn off and unplug the Saw, adjust the Pump's flow, dry your hands again, plug the Saw back in and turn on.

6. Let the Blade build up to full speed before cutting.

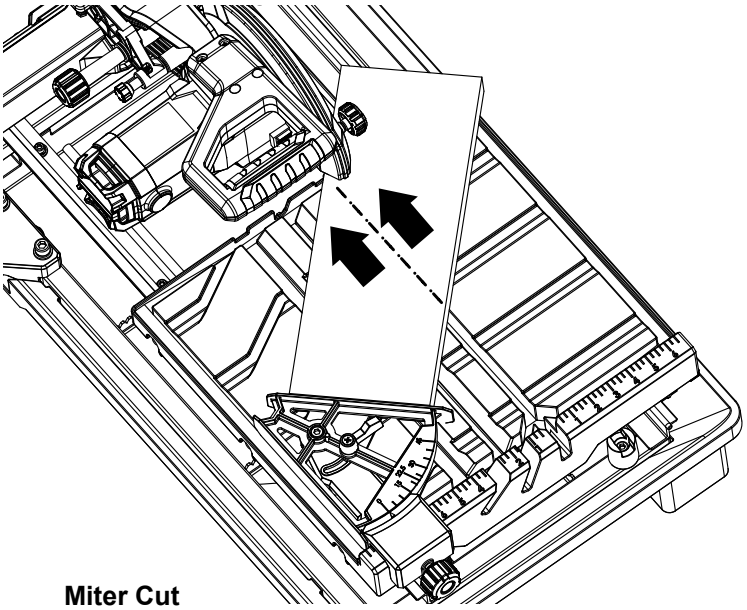
7. Use two hands and hold workpiece securely against Table and Fence at all times. Feed the material into the Blade.

8. When the cut is made, turn the Saw off. Wait for the Blade to come to a complete stop before removing any part of the workpiece.

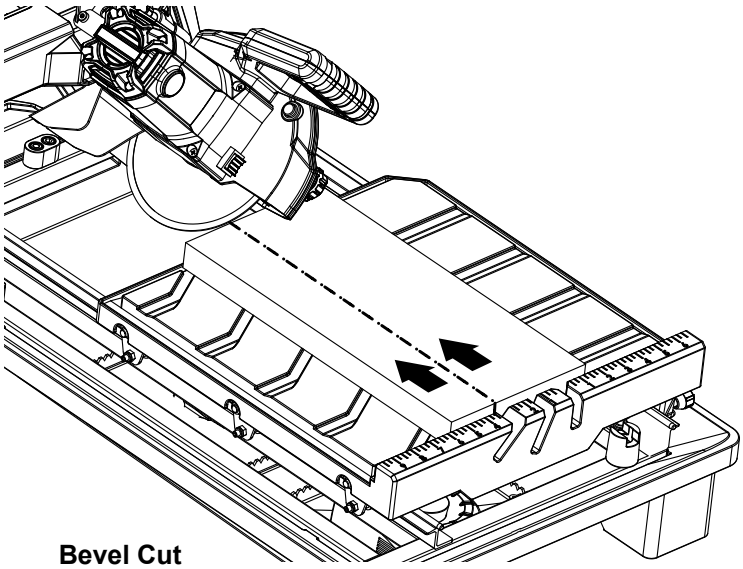
9. To prevent accidents, turn off the tool, remove the Safety Key, and unplug the tool from its electrical outlet after use. Clean, then store the tool indoors out of children's reach. Store the Safety Key separate from the tool and out of children's reach.



Straight Cut



Miter Cut



Bevel Cut

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 off, remove the Safety Key, and unplug the tool from its electrical outlet before performing any procedure in this section.

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 hardware
   - misalignment or binding of moving parts
   - cracked or broken parts
   - damaged electrical wiring
   - any other condition that may affect its safe operation.
2. **AFTER USE,** wipe external surfaces of the tool with clean cloth. Also, clean the following after every use, and as needed during extended use:
   - Rails
   - Water Tray (empty out sediment and water)
   - Pump filter and housing
3. Periodically, wear ANSI-approved safety goggles and NIOSH-approved breathing protection and blow dust out of the motor vents using dry compressed air.
4. If Blade is out of alignment, Table does not slide smoothly or other issues interfere with smooth operation, have the Saw serviced by a qualified technician before further use.
5. **⚠WARNING! If the supply cord of this power tool is damaged, it must be replaced only by a qualified service technician.**

Troubleshooting

Problem	Possible Causes	Likely Solutions
Tool will not start.	1. Cord not connected. 2. No power at outlet. 3. Tool's thermal reset breaker tripped (if equipped). 4. Internal damage or wear. (Carbon brushes or switch, for example.)	1. Check that cord is plugged in. 2. Check power at outlet. If outlet is unpowered, turn off tool and check circuit breaker. If breaker is tripped, make sure circuit is right capacity for tool and circuit has no other loads. 3. Turn off tool and allow to cool. Press reset button on tool. 4. Have technician service tool.
Tool operates slowly.	Extension cord too long or wire size too small.	Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See **Table A** on page 3.
Performance decreases over time.	1. Accessory dull or damaged. 2. Carbon brushes worn or damaged.	1. Keep cutting accessories sharp. Replace as needed. 2. Have qualified technician replace brushes.
Excessive noise or rattling.	Internal damage or wear. (Carbon brushes or bearings, for example.)	Have technician service tool.
Overheating.	1. Forcing machine to work too fast. 2. Accessory misaligned. 3. Accessory dull or damaged. 4. Blocked motor housing vents. 5. Motor being strained by long or small diameter extension cord.	1. Allow machine to work at its own rate. 2. Check and correct accessory to fence and/or table alignment. 3. Keep cutting accessories sharp. Replace as needed. 4. Wear ANSI-approved safety goggles and NIOSH-approved dust mask/respirator while blowing dust out of motor using compressed air. 5. Eliminate use of extension cord. If an extension cord is needed, use one with the proper diameter for its length and load. See **Table A** on page 3.

Follow all safety precautions whenever diagnosing or servicing the tool.
Disconnect power supply and remove the Safety Key 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	Qty
1	Pan Head Tapping Screw ST4.8x13	10
2	Motor End Cover	1
3	Waterproof Board	1
4	Carbon Brush Cover	2
5	Depth Lock Knob	1
6	Depth Lock Pin	1
7	Rubber Seal Ø6.7x1.8	1
8	Flat End Set Screw M5x10	4
9	Bevel Angle Bracket	1
10	Bevel Angle Pointer	1
11	Flat Washer Ø5	23
12	Spring Washer Ø5	5
13	Pan Head Screw M5x10	5
14	Pan Head Screw M5x16	5
15	Motor Housing	1
16	Carbon Brush	2
17	Carbon Brush Holder	2
18	Power Cord Clip	1
19	Damping Ring	1
20	Deep Groove Ball Bearing 608-2RS	1
21	Armature Assembly	1
22	Stator Assembly	1
23	Flat Washer Ø4	28
24	Pan Head Screw M4x60	2
25	Windshield	1
26	Large Flat Washer Ø10	1
27	Depth Knob	1
28	Lower Handle	1
29	Upper Handle	1
30	Pan Head Screw M5x25	4
31	Pan Head Screw M5x12	1
32	Inner Blade Guard	1
33	Water Hose Baffle	1
34	Water Nozzle Joint Angle Mandrel	1
35	Rubber Seal Ø12x1	2
36	Pan Head Screw M4x10	25
37	Water Nozzle Connector	1
38	Outlet Fitting	1
39	Side Splash Guard	1
40	Rear Splash Guard	1
41	Retaining Ring	1
42	Blade Guard Knob	1
43	Pan Head Tapping Screw ST4.8x13	1
44	Outer Blade Guard	1
45	Spindle Nut	1
46	Outer Flange	1
47	Saw Blade	1
48	Water Nozzle	2
49	Inner Flange	1
50	Inner Blade Guard Screw	1

Part	Description	Qty
51	Body	1
52	Wool Felt	1
53	Oil Bearing	1
54	Large Gear Wheel	1
55	Shaft Ring	1
56	Stop Ring	1
57	Deep Groove Ball Bearing 6002-2RS	1
58	Spindle	1
59	Bearing Seat	1
60	Spring Washer Ø4	8
61	Table	1
62	Bearing Screw	5
63	Screw	2
64	Roller	3
65	Nut M8	12
66	Countersunk Head Screw M6x10	1
67	Bearing Washer	1
68	Bearing Screw	1
69	Table Stop	1
70	Miter Lock Lever	1
71	Screw	1
72	Miter Screw	1
73	Miter Body	1
74	Miter Base	1
75	Nut M6	3
76	Miter Base Plate	1
77	Water Tray	1
78	Water Pump	1
79	Miter Gauge Lock Knob	1
80	Compression Spring	1
81	Steel Ball Ø6	1
82	Water Hose	1
83	Table Lock Lever	1
84	Steel Ball Ø6	1
85	Compression Spring	1
86	Eccentric Screw	4
87	Friction Sleeve	4
88	Lock Nut M6	4
89	Bearing Screw	3
90	Retaining Ring	3
91	Hex Key	1
92	Bearing 608-2RS	6
93	Bearing Washer	3
94	Roller	3
95	Screw Sleeve	1
96	Screw	1
97	Compression Spring	1
98	Bevel Lock Lever	1
99	Lock Bolt	1
100	Flat Washer Ø8	14

Parts List (continued)

Part	Description	Qty
101	Hex Round Head Screw M6x12	4
102	Rotating Shaft	1
103	Motor Head Bevel Angle Plate	1
104	Double Line Pressure Card	1
105	Line Card	1
106	Power Cord Storage Hook	1
107	Cable Sleeve	2
108	Rear Arm Cover	1
109	Wing Nut M6	1
110	Wrench	1
111	Pan Head Screw M5x16	9
112	Power Cord	1
113	Socket Head Cap Screw M8x30	8
114	Right Rail	1
115	Drain Plug Chain	1
116	Drain Plug	1
117	Frame Insert	3
118	Toggle Table Stop	1
119	Pressure Spring	1
120	Frame Assembly	1
121	Front Limit Block	1
122	Limit Block Screw	2
123	Pump Outlet Extension Cord	1
124	Pump Outlet Extension Cord Boot	1
125	Socket Head Cap Screw M8x45	1
126	Left Rail	1

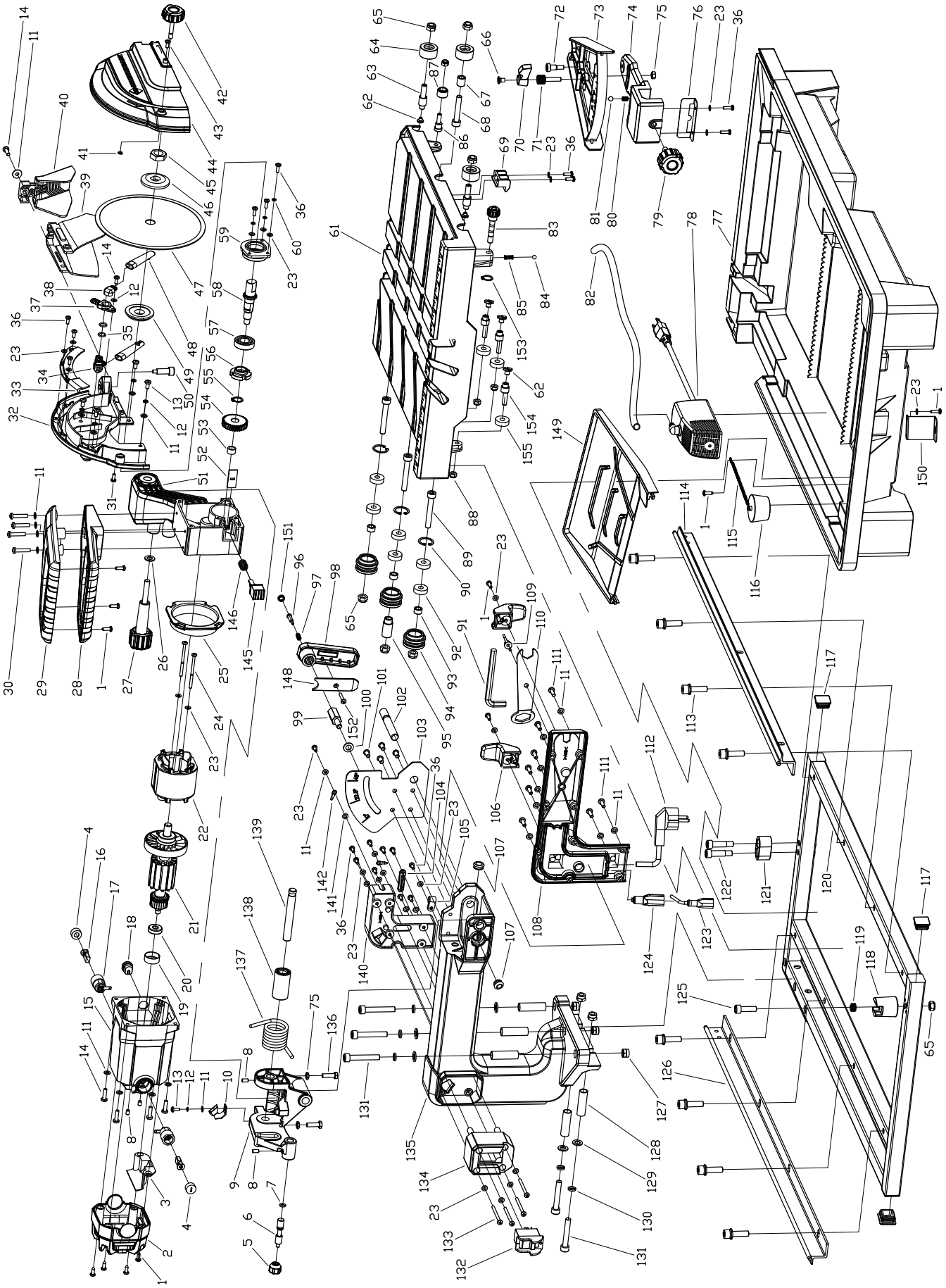
Part	Description	Qty
127	Lock Nut M10	5
128	Screw Sleeve	5
129	Flat Washer Ø10	5
130	Spring Washer Ø10	5
131	Socket Head Cap Screw M10x60	5
132	On/Off Switch	1
133	Pan Head Screw M4x50	4
134	On/Off Switch Box	1
135	Arm	1
136	Hex Head Bolt M5x20	2
137	Torsion Spring	1
138	Torsion Spring Bushing	1
139	Rotating Shaft	1
140	Junction Box	1
141	Star Washer Ø4	2
142	Grounding Pin	2
145	Spindle Lock	1
146	Spring	1
148	Bevel Lock Lever Cover	1
149	Extension Tray	1
150	Stand Bracket	2
151	Bevel Lock Lever Screw Cap	1
152	Pan Head Tapping Screw ST4.2x9.5	1
153	Retaining Ring	1
154	Screw	3
155	Bearing 688-2RS	3

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



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.

DIAMONDBACK

3491 Mission Oaks Blvd. • PO Box 6009 • Camarillo, CA 93011 • 1-888-866-5797