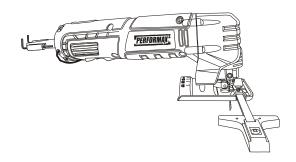


COMPACT DETAIL SAW 241-0995

Owner's Manual



PRODUCT SPECIFICATIONS				
Rating:	120V, 60Hz, AC			
Amperes:	0.6 A			
Variable speed:	1,000-4,500 SPM (no load)			
Stroke length:	15/64" (6mm)			
Blade change system:	2.5mm hex key			
Blade type:	2 1/4" 17 TPI Wood Detail Saw Blade			
	(sku: 242-0063)			
Cutting depth in wood:	½"(12mm) @ 90°			
Base plate bevel:	0–45°			
Weight:	1lb 14oz (.84kg)			

Need Assistance?

Call us on our toll free customer support line:

1-866-349-8665 (Monday through Friday 9am – 5pm Eastern Time)

- Technical questions
- Replacement parts
- · Parts missing from package

TABLE OF CONTENTS

Product specifications	1
Table of contents	2
General safety warnings	3–4
Eye, ear & lung protection	3–4
Electrical safety	4
Power tool safety	5–6
General safety rules	5
Work area	5
Electrical safety	5
Personal safety	5
Power tool use and care	6
Service	6
Specific safety rules	7
Guidelines for extension cords	8
Symbols	9
Know your detail saw	10
Assembly and operating	11–14
Hex key storage	11
Installing a blade	11
Removing a blade	11
Setting the bevel cutting angle	11–12
Variable speed control	12
ON/OFF switch	13
Installing the edge guide	12-13
Materials you can cut	13
General cutting	13-14
Bevel cutting	14
Maintenance	15
Exploded view	16
Parts list	17
Warranty	18

GENERAL SAFETY WARNINGS

WARNING: Before using this tool or any of its accessories, read this manual and follow all Safety Rules and Operating Instructions. The important precautions, safeguards and instructions appearing in this manual are not meant to cover all possible situations. It must be understood that common sense and caution are factors which cannot be built into the product.

This instruction manual includes the following:

- **General Safety Rules**
- Specific Safety Rules and Symbols
- **Functional Description**
- Assembly
- Operation
- Maintenance
- Accessories

EYE, EAR & LUNG PROTECTION



ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA REQUIREMENTS or ANSI SAFETY STANDARD Z87.1

FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection.



WARNING: Non-compliant eyewear can cause serious injury if broken during the operation of a power tool.



WARNING: Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.

GENERAL SAFETY WARNINGS



WEAR A DUST MASK THAT IS DESIGNED TO BE USED WHEN OPERATING A POWER TOOL IN A DUSTY ENVIRONMENT.



WARNING: Dust that is created by power sanding, sawing, grinding, drilling, and other construction activities may contain chemicals that are known to cause cancer, birth defects, or other genetic abnormalities. These chemicals include:

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

The level of risk from exposure to these chemicals varies, according to how often this type of work is performed. In order to reduce exposure to these chemicals, work in a well-ventilated area, and use approved safety equipment, such as a dust mask that is specifically designed to filter out microscopic particles.

ELECTRICAL SAFETY



WARNING: To avoid electrical hazards, fire hazards or damage to the tool, use proper circuit protection.

This tool is wired at the factory for 120V AC operation. It must be connected to a 120V AC, 15 AMP circuit that is protected by a time-delayed fuse or circuit breaker. To avoid shock or fire, replace power cord immediately if it is worn, cut or damaged in any way.

POWER TOOL SAFETY

▲ 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.

Work area safety

Keep work area clean and well lit. Cluttered or dark areas invite accidents.

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

Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

Electrical safety

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.

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.

Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

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.

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

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

Personal safety

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.

Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

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.

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.

Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

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 SAFETY

Power tool use and care

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.

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.

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.

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.

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.

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

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.

Hold power tools by insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.

Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.

Service

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.

SPECIFIC SAFETY RULES

▲ WARNING: Know your detail saw. Do not plug in the detail saw until you have read and understand this Instruction Manual. Learn the tool's applications and limitations, as well as the specific potential hazards related to this tool. Following this rule will reduce the risk of electric shock, fire, or serious injury.



Always wear eye protection. Any power tool can throw foreign objects into your eyes and cause permanent eye damage. ALWAYS

wear safety goggles (not glasses) that comply with ANSI safety standard Z87.1. Everyday glasses have only impact resistant lenses. They ARE NOT safety glasses.

▲ WARNING: Glasses or goggles not in compliance with ANSI Z87.1 could cause serious injury when they break.

Always wear safety goggles, hearing protection and a dust mask. Use only in well-ventilated areas. Using personal safety devices and working in a safe environment reduces the risk of injury.

▲ WARNING: Never cut metals such as steel, copper or brass. These materials are too hard and will break the blade and possible cause injury to the operator.

A WARNING: Never attempt to plunge cut with this tool. The fine blades will likely break and possibly cause injury to the operator.

Hold the tool by insulated gripping surfaces when performing an operation where the saw blade may contact hidden wiring or its own cord. Contact with a "live" wire will make exposed metal parts of the tool "live" and shock the operator.

Always make sure the work surface is free of nails and other foreign objects. Cutting into a nail can cause the blade and the tool to jump and damage the blade.

Never hold the workpiece in one hand and the tool in the other hand when sawing.

Never place your hands near or below the cutting surface. Clamping the material and guiding the tool with both hands is much safer.

Never lay the workpiece on hard surfaces like concrete, stone, etc. The protruding blade may cause the tool to jump.

▲ DANGER: Always remove the plug from the power supply when changing the blade and when making adjustments.

Use only mini detail saw blades that are designed specifically for mini or compact detail saw use. Never use a broken blade, as it will not be securely held in the tool.

After changing a blade, make sure the blade is securely held in the blade holder. Loose blades will be violently thrown.

Never touch the blade during or immediately after use. After use, the blade is too hot to be touched by bare hands.

Never use dull or damaged blades. Sharp blades must be handled with care. Damaged blades can snap during use. Dull blades require more force to cut the workpiece, possibly causing the blade to break.

GUIDELINES FOR EXTENSION CORDS

Make sure your extension cord is the proper size. When using an extension cord, be sure to use one heavy enough to carry the current the tool will draw. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. The table on at right shows the correct size to use according to cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the gauge number the heavier the cord.

Be sure your extension cord is properly wired and in good condition. Always replace a damaged extension cord or have it repaired by a qualified electrician before using it. Protect your extension cord from sharp objects, excessive heat and damp or wet areas.

Use a separate electrical circuit for your power tools. This circuit must not be less than 14 gauge wire and should be protected with either a 15A time delay fuse or circuit breaker. Before connecting the power tool to the power source, make sure the switch is in the OFF position and the power source is the same as indicated on the nameplate. Running at lower voltage will damage the motor.

▲ WARNING: Repair or replace damaged or worn extension cords immediately.

Select the appropriate extension cord gauge and length using the chart below.

When operating a power tool outdoors, use an outdoor extension cord marked "W-A" or "W". These cords are rated for outdoor use and reduce the risk of electric shock.

▲ WARNING: Keep the extension cord clear of the working area. Position the cord so it will not get caught on the workpiece, tools or any other obstructions while you are working with the power tool.

MINIMUM GAUGE (AWG) EXTENSION CORDS (120 V use only)						
Amper	Ampere rating Total length in feet					
More than	Not more than	7.5 m (25')	15 m (50')	30 m (100')	45 m (150')	
0	6	18	16	16	14	
6	10	18	16	14	12	
10	12	16	16	14	12	
12	16	14	12	Not Ap	plicable	

SYMBOLS

▲ WARNING: Some of the following symbols may appear on the detail saw. Study these symbols and learn their meaning. Proper interpretation of these symbols will allow for more efficient and safer operation of this tool.

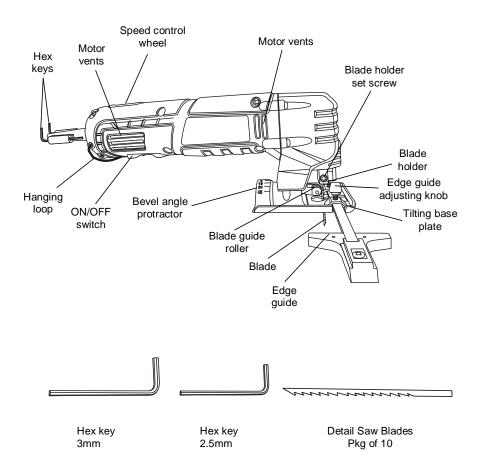
)
ute
ating
ating

n _。	No load speed
$\overline{}$	Alternating or direct current
	Class II construction
<u> </u>	Splash-proof construction
& &	Watertight construction
	Protective grounding at grounding terminal, Class I tools
/min	Revolutions or reciprocations per minute
Ø	Diameter
0	Off position
→	Directional arrow
\triangle	Warning symbol
	Wear your safety glasses
9	Wear a dust mask
	Wear hearing protection



This symbol designates that this tool is listed with U.S. and Canadian requirements by Underwriters Laboratories.
Conforms to UL Std. 60745-1 and 60745-2-11.

KNOW YOUR DETAIL SAW



HEX KEY STORAGE

The 2.5mm hex key (1) for tightening the blade clamp and the 3mm hex key (2) for adjusting the bevel angle are stored in the cord guard at the rear of the tool (3) (Fig. 1).

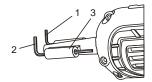


Fig. 1

INSTALLING A BLADE

▲ WARNING: Always remove the plug from the power source before installing or removing a blade or adjusting the detail saw in any way.

 To install a blade in the detail saw, loosen the blade holder set screw (1) by turning it counter clockwise approximatey one full turn (Fig. 2).

NOTE: Use the 2.5mm hex key (2) that is stored in the cord guard at the rear of the tool.

- Insert the appropriate blade (3) into the blade holder slot (4) as far as it will go.
 NOTE: Make sure the rear edge of the blade is nested in the blade guide roller (5).
- Firmly tighten the blade holder set screw until the blade is firmly clamped in the blade holder.

REMOVING A BLADE

To remove a blade, simply loosen the blade holder set screw and remove the blade from the blade holder.

NOTE: Let the blade cool down before attempting to remove it. The blade will get very hot during cutting.

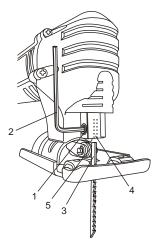


Fig. 2

SETTING THE BEVEL CUTTING ANGLE

Bevel cutting angles may be adjusted from 0° to 45° either left or right. To adjust the bevel angle:

 Loosen the base pivot screw (1) until the base (2) can be slid forward (Fig. 3).
 NOTE: Use (3mm) hex key supplied.

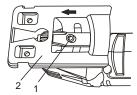


Fig. 3

- 2. Bevel angles (3) are marked on a scale located on the side of the base (Fig. 4).
- Slide the base toward the front of the detail saw and align the bevel angle index mark (4) with the desired bevel angle on the base.

SETTING THE BEVEL CUTTING ANGLE – cont'd

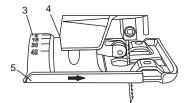


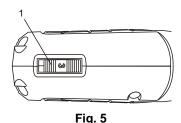
Fig. 4

NOTE: Use a protractor to check the bevel angle between the blade and the base.

- Once the desired bevel angle is obtained, lock the base by tightening base pivot screws.
- Make a test cut in a scrap piece of material and measure the bevel angle. Adjust the bevel angle if necessary.

VARIABLE SPEED CONTROL

Set the detail saw speed by rotating the variable speed control wheel (1) to the appropriate speed (Fig. 5). Rotating the variable speed control wheel toward the rear of the detail saw will result in slower speeds. Position the speed control dial at "1" for the slowest speed, "3" for medium speed and at "MAX" for the highest speed.



ON/OFF SWITCH

The ON/OFF switch turns the detail saw ON and OFF.

- 1. To turn the detail saw ON, press the rear of the ON/OFF switch (1) (Fig. 6).
- 2. To turn the detail saw OFF, press the front of the ON/OFF switch (2).

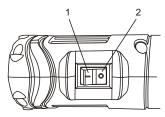


Fig. 6

INSTALLING THE EDGE GUIDE

This detail saw is equipped with an edge guide that will assist in cutting narrow edges from a workpiece.

NOTE: The bevel cutting angle must be set at 0° when using the edge guide (Fig. 4).

- Install two edge guide mounting screws (1) (Fig. 7).
- 2. Insert edge guide (2) into the edge guide mounting slots (3) in the base plate (4).
- Set the edge guide at the desired distance from the blade and lock it into place by tightening the edge guide mounting screws.

NOTE: Tighten the mounting screws to hold the edge guide in place. Do NOT overtighten the mounting screws as you will damage the edge guide.

- 4. Make a test cut on a scrap workpiece to ensure the edge guide is set correctly.
- 5. Adjust the edge guide as required.

INSTALLING THE EDGE GUIDE - cont'd

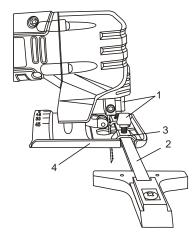


Fig. 7

MATERIALS YOU CAN CUT

This detail saw is a versatile tool that allows you to cut many different types of materials. Some of these materials include:

- Wood products such as plywood, composite board, laminate and panelling
- Drywall
- Styrofoam
- Fibre board and plastic

A WARNING

saw.

For safety reasons, the operator must read the sections of this Owner's Manual entitled "GENERAL SAFETY WARNINGS", "POWER TOOL SAFETY", "SPECIFIC SAFETY RULES", "GUIDELINES FOR EXTENSION CORDS" and "SYMBOLS" before using this detail

Verify the following every time the detail saw is used:

- 1. The blade is sharp and in good condition.
- The blade is firmly clamped into the blade holder.
- 3. The workpiece is properly secured.
- 4. Safety glasses, hearing and breathing protection are being worn.

Failure to observe these safety rules will significantly increase the risk of injury.

GENERAL CUTTING

- Clearly mark the workpiece to locate the position of the cut.
- Hold smaller workpieces with a vise. Clamp larger workpieces to a workbench or table.

▲ DANGER: Any workpiece that is not adequately clamped in place may come loose and cause serious injury. Never hold the workpiece with your hand.

▲ WARNING: Keep your hands and fingers away from between the motor housing and the blade holder. Do not reach underneath the workpiece while the detail saw is running.

 Set the speed control wheel to the desired speed. Use slower speeds for cutting plastics and higher speeds for cutting wood and laminates.

GENERAL CUTTING - cont'd

NOTE: Higher speeds will generally result in smoother cuts, but will also generate more heat and therefore shorten the life of the blade.

- 4. Rest the front of the detail saw base plate (1) on the workpiece and align cutting edge of the blade with the cutting line (2) on your workpiece (Fig. 8). Make sure the power cord is out of your way and not in the path the blade will follow.
- While firmly gripping the detail saw, and with the blade NOT in contact with the surface to be cut, start the detail saw by turning the ON/OFF switch ON.
- Once the detail saw has reached the desired speed, gradually bring the moving blade into contact with the workpiece at the appropriate location.

NOTE: Apply enough downward pressure to keep the detail saw steady and only enough forward pressure to keep the blade cutting freely.

A CAUTION: Do not force the detail saw. Use only enough force to keep the blade cutting. Do not put sideways pressure on the blade. Excessive or sideways pressure on the blade will cause it to bend and twist, which may result in breaking the blade.

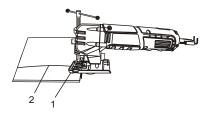


Fig. 8

BEVEL CUTTING

Bevel cutting angles may be adjusted from 0° to 45° either left or right. To adjust the bevel angle, refer to Fig. 3 & 4.

NOTE: Remove the edge guide mounting screws as shown in Fig. 7 when bevel cutting.

Once the cutting angle has been verified, proceed with the cutting activity as outlined in "GENERAL CUTTING" above.

MAINTENANCE

GENERAL

▲ WARNING: When servicing this tool, use only identical replacement parts. The use of any other part may create a hazard or cause product damage.

DO NOT use solvents when cleaning plastic parts. Plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use a clean cloth to remove dirt, dust, oil, grease etc.

▲ WARNING: Do not allow brake fluids, gasoline, petroleum-based products, penetrating oils, etc. to come into contact with plastic parts. They contain chemicals that can damage, weaken or destroy plastic.

DO NOT abuse power tools. Abusive practices can damage the tool and the workpiece.

▲ WARNING: DO NOT attempt to modify tools or create accessories. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury. It will also void the warranty.

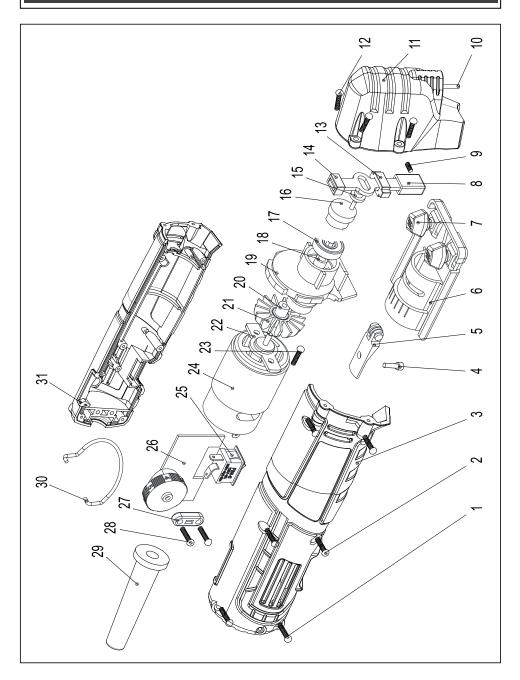
It has been found that electric tools are subjected to accelerated wear and possible premature failure when they are used on fiberglass boats and sports cars, wallboard, spackling compounds or plaster. The chips and grindings from these materials are highly abrasive to electric tool parts such as bearings, brushes, commutators, etc. Consequently, it is not recommended that this tool be used for extended work on any fiberglass material, wallboard, spackling compounds or plaster. During any use on these materials it is extremely important that the tool is cleaned frequently by blowing the accumulated debris out with an air jet.

▲ WARNING: Always wear safety goggles or safety glasses with side shields during all cutting operations. It is critical that you wear safety goggles or safety glasses with side shields and a dust mask while blowing dust out of the detail saw with an air jet. Failure to take these safety precautions could result in permanent eye or lung damage.

LUBRICATION

All of the bearings in this tool are lubricated with a sufficient amount of high-grade lubricant for the life of the unit under normal conditions. Therefore, no further lubrication is required.

EXPLODED VIEW



PARTS LIST

A WARNING: When servicing, use only original equipment replacement parts. The use of any other parts may create a safety hazard or cause damage to the detail saw.

Any attempt to repair or replace electrical parts on this detail saw may create a safety hazard unless repairs are performed by a qualified technician. For more information, call the Toll-free Helpline, at 1-866-349-8665 (Monday through Friday 9am – 5pm Eastern Time).

Always order by PART NUMBER, not by key number.

Key #	Part #	Part Name	Quantity
1	4030010237	Tapping screw 2.9*20	2
2	4030010145	Tapping screw 2.9*16	4
3	3011100084	Right enclosure	1
4	4020080002	Hex screw M4*12	1
5	1170020036	Blade support roller	1
6	2030010062	Base plate	1
7	1180100012	Edge guide mounting screw	2
8	1150010045	Quick plunger assembly	1
9	4020150010	Hex screw M5*6	1
10	2050080189	Nose guard	1
11	2020050083	End housing	1
12	4030010145	Tapping screw 2.9*16	4
13	2010150056	Front bearing	1
14	2010150057	Back bearing	1
15	2010210025	Roller	1
16	1170040076	Eccentric shaft	1
17	4010010034	Bearing 607	1
18	2010080126	Shaft sleeve	1
19	3150210014	Bearing holder	1
20	2010010125	Gear	1
21	3150010110	Motor fan	1
22	2030220006	Motor flange	1
23	4020010027	Screw M3*6	2
24	1039040011	Motor	1
25	1061150016	Switch	1
26	1130010235	PCB	1
27	3150020001	Cord clamp	1
28	4030010179	Tapping screw 3.9*10	2
29	3140010074	Cord strain relief	1
30	2050080199	Hanging loop	1
31	3011100084	Left enclosure	1

PERFORMAX® COMPACT DETAIL SAW WARRANTY

30-DAY MONEY BACK GUARANTEE:

This PERFORMAX® brand power tool carries our 30-Day Money Back Guarantee. If you are not completely satisfied with your PERFORMAX® brand power tool for any reason within thirty (30) days from the date of purchase, return the tool with your original receipt to any MENARDS® retail store, and we will provide you a refund – no questions asked.

2-YEAR LIMITED WARRANTY:

This PERFORMAX® brand power tool carries a 2-Year Limited Warranty to the original purchaser. If, during normal use, this PERFORMAX® power tool breaks or fails due to a defect in material or workmanship within two (2) years from the date of original purchase, simply bring this tool with the original sales receipt back to your nearest MENARDS® retail store. At its discretion, PERFORMAX® agrees to have the tool or any defective part(s) repaired or replaced with the same or similar PERFORMAX® product or part free of charge, within the stated warranty period, when returned by the original purchaser with original sales receipt. Not withstanding the foregoing, this limited warranty does not cover any damage that has resulted from abuse or misuse of the Merchandise. This warranty: (1) excludes expendable parts including but not limited to blades. brushes, belts, bits, light bulbs, and/or batteries; (2) shall be void if this tool is used for commercial and/or rental purposes; and (3) does not cover any losses, injuries to persons/property or costs. This warranty does give you specific legal rights and you may have other rights, which vary from state to state. Be careful, tools are dangerous if improperly used or maintained. Seller's employees are not qualified to advise you on the use of this Merchandise. Any oral representation(s) made will not be binding on seller or its employees. The rights under this limited warranty are to the original purchaser of the Merchandise and may not be transferred to any subsequent owner. This limited warranty is in lieu of all warranties, expressed or implied including warranties or merchantability and fitness for a particular purpose. Seller shall not be liable for any special, incidental, or consequential damages. The sole exclusive remedy against the seller will be for the replacement of any defects as provided herein, as long as the seller is willing or able to replace this product or is willing to refund the purchase price as provided above. For insurance purposes, seller is not allowed to demonstrate any of these power tools for you.

For questions / comments, technical assistance or repair parts – Please Call Toll Free at: 1-866-349-8665 (M-F 8am – 6pm)

SAVE YOUR RECEIPTS. THIS WARRANTY IS VOID WITHOUT THEM.

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