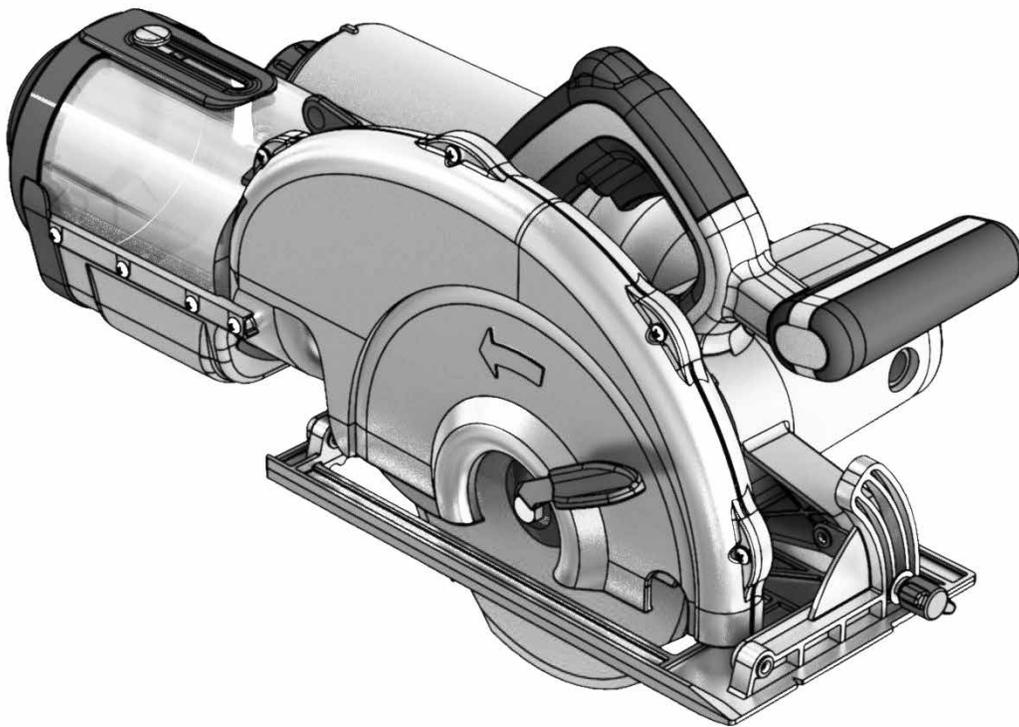




Dust Collecting Saw

Operating Instructions



7 ¼ inch (184mm) Dust Collecting Circular Saw
Model: S7250

www.roantools.com
Patent Pending

Save These Instructions for Future Reference

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General Safety Instructions



DANGER: Indicates the **most hazardous** situations 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 a minor or moderate injury.

NOTICE: Indicates work practices not related to personal injury.



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

Save all warnings and instructions for future reference.

The term “power tool” in the warnings refers to your mains-operated (corded) power tool.

1) Work area safety

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

2) Electrical safety

- a) **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.*
- b) **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.*

General Safety Instructions (continued)...

- c) **Do not expose power tools to rain or wet conditions.** *Water entering a power tool will increase the risk of electric shock.*
- d) **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.*
- e) **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.*
- f) **If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** *Use of an RCD reduces the risk of electric shock.*

3) Personal safety

- a) **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.*
- b) **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.*
- c) **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.*
- d) **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.*
- e) **Do not overreach. Keep proper footing and balance at all times.** *This enables better control of the power tool in unexpected situations.*
- f) **Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts.** *Loose clothes, jewelry or long hair can be caught in moving parts.*
- g) **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.*

General Safety Instructions (continued)...

4) Power tool use and care

- a) **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.*
- b) **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.*
- c) **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.*
- d) **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.*
- e) **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.*
- f) **Keep cutting tools sharp and clean.** *Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.*
- g) **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.*

5) Service

- a) **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.*

Circular Saw Safety Instructions

Cutting Procedures



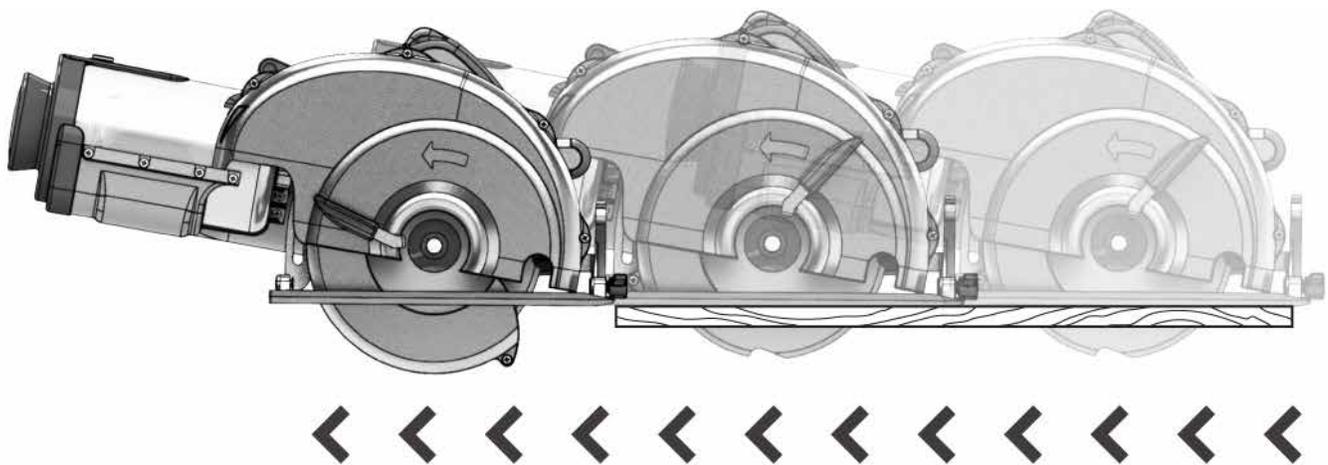
- a) **DANGER:** Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle, or motor housing. *If both hands are holding the saw, they cannot be cut by the blade.*
- b) **Do not reach underneath the workpiece.** *The guard cannot protect you from the blade below the workpiece.*
- c) **Adjust the cutting depth to the thickness of the workpiece.** *Less than a full tooth of the blade teeth should be visible below the workpiece.*
- d) **Never hold piece being cut in your hands or across your leg. Secure the workpiece to a stable platform.** *It is important to support the work properly to minimize body exposure, blade binding, or loss of control.*
- e) **Hold the power tool by insulated gripping surfaces only when performing an operation where the cutting tool may contact hidden wiring or its own cord.** *Contact with a “live” wire will also make exposed metal parts of the power tool “live” and could give the operator an electric shock.*
- f) **When ripping, always use a rip fence or straight edge guide.** *This improves the accuracy of cut and reduces the chance of blade binding.*
- g) **Always use blades with correct size and shape (diamond versus round) of arbor holes.** *Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.*
- h) **Never use damaged or incorrect blade washers or bolt.** *The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.*

Circular Saw Safety Instructions (continued)...

Kickback causes and related warnings (Fig. 1)

- Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator;
- When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator;
- If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of the blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator.

figure 1



Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below:

- Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade.** *Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.*
- When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur.** *Investigate and take corrective actions to eliminate the cause of blade binding.*
- When restarting a saw in the workpiece, center the saw blade in the kerf and check that saw teeth are not engaged into the material.** *If saw blade is binding, it may walk up or kickback from the workpiece as the saw is restarted.*

Circular Saw Safety Instructions (continued)...

- d) **Support large panels to minimize the risk of blade pinching and kickback.** *Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.*
- e) **Do not use dull or damaged blades.** *Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.*
- f) **Blade depth and bevel adjusting locking levers must be tight and secure before making cut.** *If blade adjustment shifts while cutting, it may cause binding and kickback.*
- g) **Use extra caution when sawing into existing walls or other blind areas.** *The protruding blade may cut objects that can cause kickback.*

Lower guard function

- a) **Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position.** *If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.*
- b) **Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use.** *Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.*
- c) **Lower guard should be retracted manually only for special cuts such as “plunge cuts” and “compound cuts.”** *Raise lower guard by retracting handle and as soon as blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.*
- d) **Always observe that the lower guard is covering the blade before placing saw down on bench or floor.** *An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.*



WARNING: Some dust created by power sawing and other construction activities contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

- Avoid prolonged exposure to dust from power sawing and other construction activities. Wear protective clothing and wash exposed areas with soap and water.

Circular Saw Safety Instructions (continued)...



WARNING: Use of the saw can produce and/or disperse dust, which may cause serious and permanent respiratory or other injury.



WARNING: Always use proper personal hearing protection that conforms to ASI S12.6 (S3.19) when using the saw.



WARNING: Always wear safety glasses.

Glossary of Terms and Symbols

NOTICE: The following symbols and terms may be used on this product. Proper understanding and interpretation of these terms and symbols is necessary to operate this power tool safely.

V	Volts	Voltage
A	Amperes	Current
Hz	Hertz	Frequency
W	Watts	Power
Min	Minute	Measure of time
.../min	Revolutions Per Minute	Rotation rate
AWG	American Wire Gauge	Wire size
~	Alternating Current	Current Type
=	Direct Current	Current Type
n_0	No Load Speed	Speed of rotation with no load applied
	Class II Tool	Double insulated construction
	Safety Alert Symbol	Regards personal safety

EXTENSION CORDS

When using an extension cord it is important that the extension cord be heavy enough to carry the current the saw will draw. An undersized cord will cause a drop in voltage resulting in loss of power and overheating. The chart below shows the correct size extension cord to use. If in doubt about the size extension cord to use, use the next largest one. The smaller the wire gauge or AWG the larger the actual size of the wire.

Feet Meters		Total Length of Cord									
		0-25		26-50		51-75		76-100		101-150	
		0-10		11-15		16-20		21-30		31-40	
Ampere rating More than - Not more than		AWG	mm ²	AWG	mm ²	AWG	mm ²	AWG	mm ²	AWG	mm ²
0 - 6		18	0.82	16	1.31	16	1.31	14	2.08	14	2.08
6 - 10		18	0.82	16	1.31	14	2.08	14	2.08	12	3.31
10 - 12		16	1.31	16	1.31	14	2.08	12	3.31	12	3.31
12 - 16		14	2.08	12	3.31	12	3.31	Not recommended			



WARNING: Do not use power tools with damaged power cords. Replace damaged cords immediately.

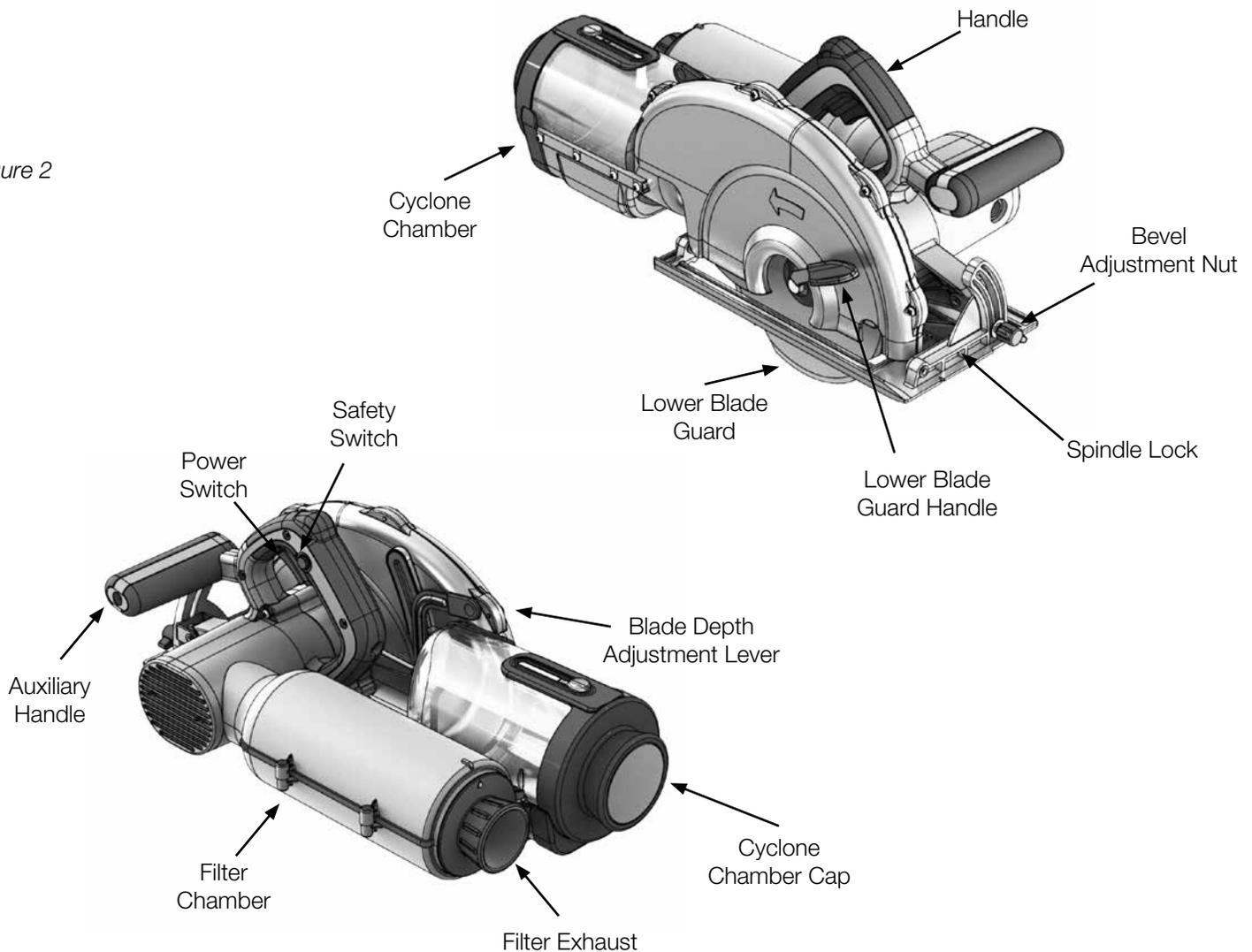


WARNING: To reduce the risk of injury, do not use the saw until you have read and completely understand the operating instructions. If you do not understand the operation instructions do not use the saw.

Product Specifications

Blade Diameter	7 ¼ inch (184 mm)
Arbor	5/8 inch (16 mm)
Cut Depth at 90°	2 ¼ inch (57 mm)
Input	120V, AC only, 60 Hz, 8 Amps
No load Speed	4500 /min
Weight (without blade)	3.3 lbs. (1.5 kg)

figure 2



WARNING: Do not use the saw if damage is visible or suspected.



WARNING: Do not modify or create accessories for the saw. Alterations or modifications could result in serious personal injury.

Assembly/Installing the Blade

This product requires some assembly prior to use.

Unpacking

- Remove the saw from the box. Ensure all items listed on the packing list are included.
- Inspect the saw for damage.
- If there are any damaged, suspected damaged, or missing parts call 888-340-1322

Packing list

- (1) Roan™ dust collecting circular saw
- (1) HMWP Filter
- (1) Allen wrench
- (1) Operations Manual



WARNING: To reduce the risk of injury, turn the saw off and disconnect it from any power source before installing or changing the blade, making any adjustments to the saw, or making any repairs to the saw.

Applications

The saw may be used for the purposes listed below:

- Cutting of wood products including: lumber, OSB, plywood, paneling, and hardboard
- Cutting of fiber cement including: plank, panel, trim, shingle, and backer board
- Rip cutting and cross cutting
- Bevel cutting
- Pocket cutting

Installing the blade (Fig. 3)

1. Move the lower guard to its upper most position.
2. Remove the blade screw and outer blade washer
3. Place the blade on the spindle. Ensure the rotation direction of the blade matches the rotation direction of the saw. Check the rotation arrow on the saw (indicated on the upper blade guard) and the rotation arrow on the blade. If there is no rotation directions indicated on the saw blade orient the teeth of the blade with the rotation direction of the saw (indicated on the upper blade guard).
4. Place the outer blade washer over the blade onto the spindle.
5. Insert the blade screw into the spindle.
6. Depress the spindle lock and tighten the blade screw with the Allen wrench.

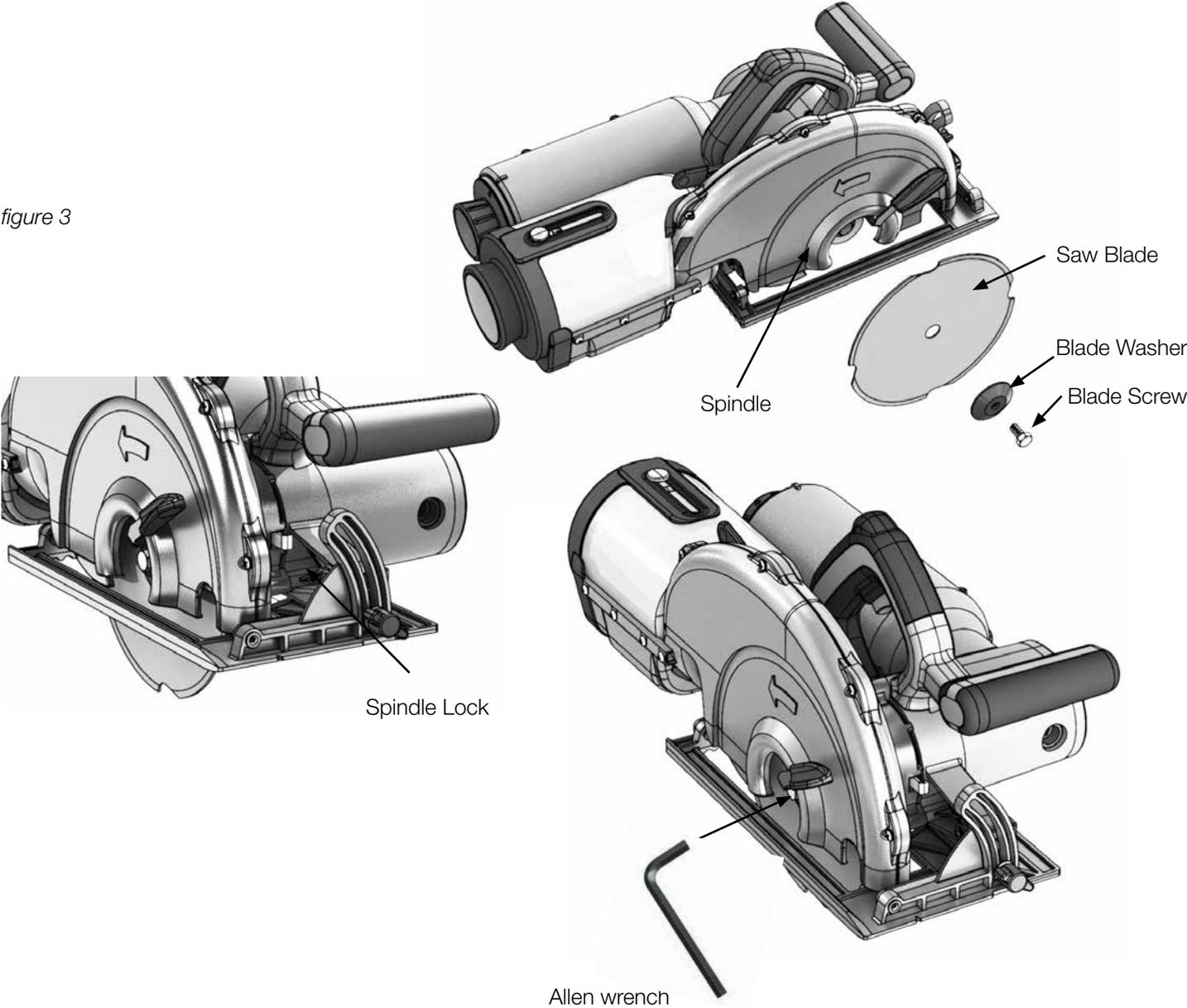
Notice: Abrasive wheels are not intended for use with this product.



WARNING: Never depress the spindle lock while the blade is moving. Never start the saw with the spindle lock depressed.

Installing the Blade (continued)...

figure 3



Changing the Blade

Changing the blade (Fig. 3)

1. Depress the spindle lock and remove the blade screw.
2. Move the lower guard to its upper most position.
3. Remove the blade and the outer blade washer.
4. Place the new blade on the spindle. Ensure the rotation direction of the blade matches the rotation direction of the saw. Check the rotation arrow on the saw (indicated on the upper blade guard) and the rotation arrow on the saw blade. If there is no rotation directions indicated on the blade orient the teeth of the blade with the rotation direction of the (indicated on the upper blade guard).
5. Place the outer blade washer over the blade onto the spindle.
6. Insert the blade screw into the spindle.
7. Depress the spindle lock and tighten the blade screw.

Saw Blades

For best results use the blade intended for the product being cut. Ensure the blade is sharp, free from damage, and clean. Dull blades can place a heavy load on the saw and increase the risk of damage from kickback. Use the proper size (diameter) blade for the saw. Use blades with recommended RPMs that meet or exceed the maximum RPMs of the saw.



WARNING: To reduce the risk of injury, turn the saw off and disconnect it from any power source before installing or changing the blade, making any adjustments to the saw, or making any repairs to the saw.

For best cutting results and to increase the longevity of the blade, set the cutting depth where one half of a blade tooth projects below the material being cut (Fig. 4 & 5)

1. Move the saw deck adjustment lever forward.
2. Adjust the saw deck to the desired level.
3. Move the saw deck adjustment lever back. Ensure it is firmly locked in place before cutting.
4. Check the saw deck adjustment lever periodically to ensure it is firmly locked in place.

Changing the Blade (continued)...

figure 4

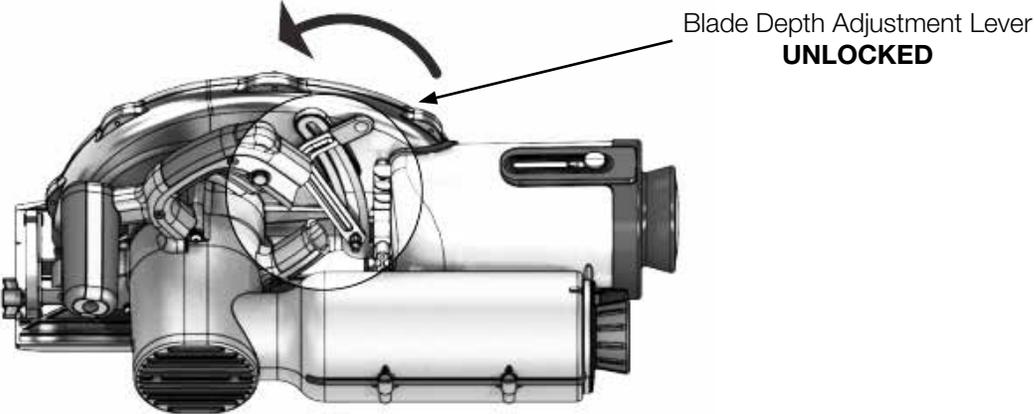
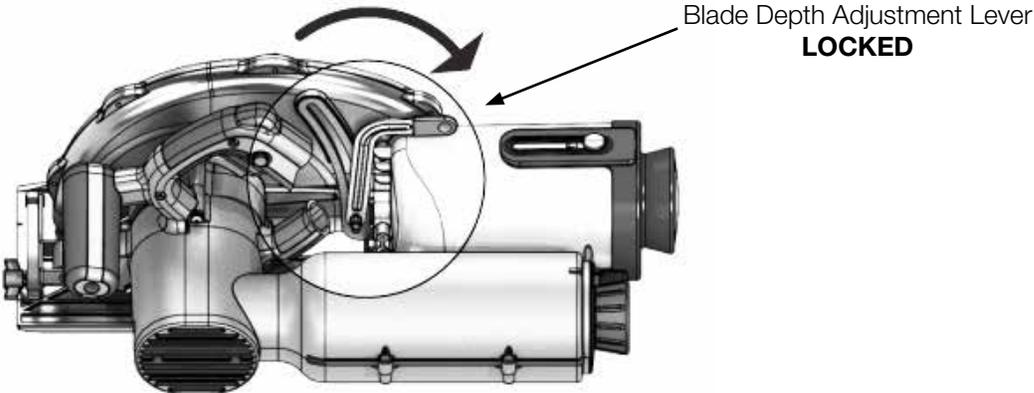
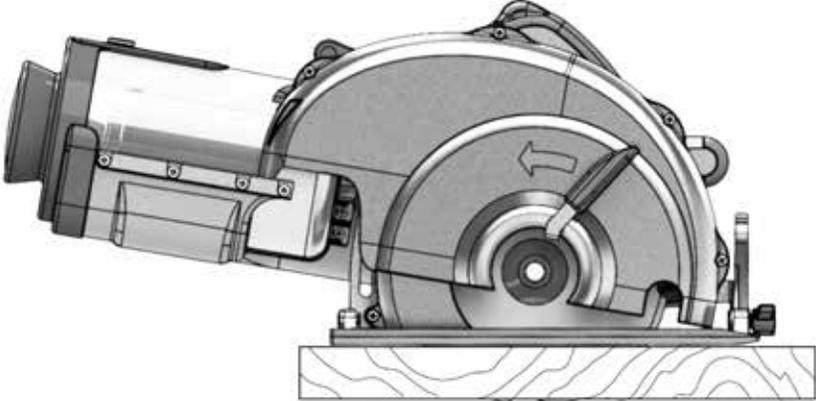


figure 5



Bevel Adjustment

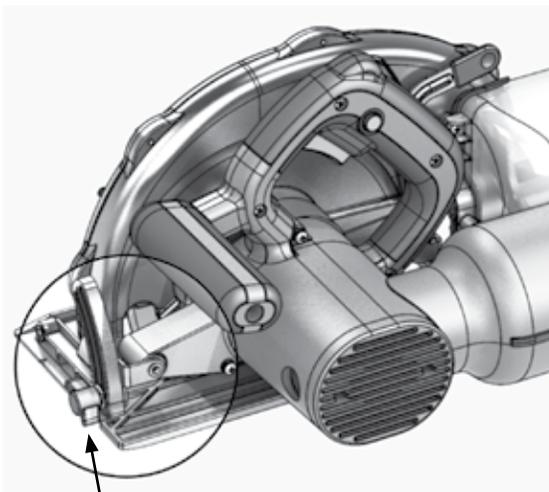
Bevel Adjustment (Fig. 6)



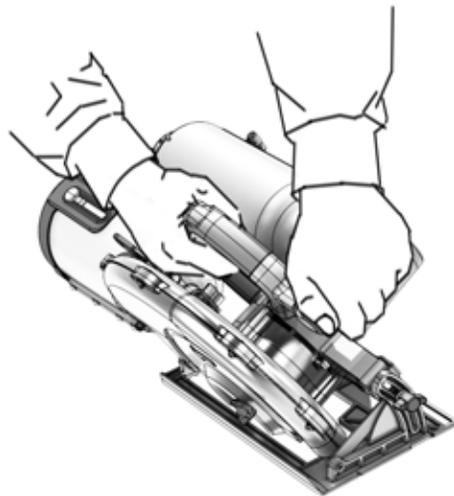
WARNING: To reduce the risk of injury, turn the saw off and disconnect it from any power source before installing or changing the blade, making any adjustments to the saw, or making any repairs to the saw.

1. Loosen but do not remove the bevel adjustment screw.
2. Adjust the saw deck to the desired angle. The saw is capable of rotating from 90° to 45°.
3. Once the desired angle is located tighten the bevel adjustment screw.
4. Check the blade depth. The blade depth may need to be adjusted based on the angle of the saw. Refer to Cutting Depth Adjustment for the steps required to adjust the blade depth.

figure 6



Bevel Adjustment Nut



Cutting with the Saw

Cutting with the saw (Fig. 7)



WARNING: To reduce the risk of injury, support and stabilize the workpiece properly. Refer to fig. 7 for examples of proper support. Keep hands away from the cutting area including under the materials being cut. Place hands on the saw handles during cutting. Ensure the power cord is clear of the cutting area. Ensure the power cord will not be hung up on the material being cut.



WARNING: To reduce the risk of injury, always wear safety glasses and other appropriate personal protection equipment while operating the saw.

1. Before operating the saw ensure the lower blade guard is working properly. Using the lower blade guard handle, retract the lower blade guard. Release the low blade guard handle allowing the guard to move freely. Check that the guard goes into its original closed position covering the saw blade.
2. The saw is equipped with a safety switch that must be depressed in conjunction with the power switch to initiate the rotation of the blade. To start the saw depress the safety switch with your thumb and pull the power switch.
3. Hold the saw firmly with both hands.
4. Bring the saw up to full speed before contacting the material to be cut. Kick back could result if the saw is not at full speed prior to contacting the material being cut.
5. Push the saw forward at a speed where the saw is cutting but it is not laboring. Do not force the saw. Forcing the saw could result in rough cuts, kickback, cutting inaccuracy, and overheating of the saw.
6. After the material is cut release the power switch and allow the blade to come to a full stop before lifting the saw away from the materials being cut.

Cutting with the Saw (continued)...

If your cut begins to go off-line, release the power switch and allow the saw blade to come to a full stop. Withdraw the saw, reorient the saw to the proper line, and begin the cutting process again.



WARNING: If the saw stalls while cutting immediately release the power switch. Check to be sure the material being cut is properly supported and that the cut depth is set properly. Be sure to cut in a straight line. Adjusting the saw mid-cut could result in the saw stalling.

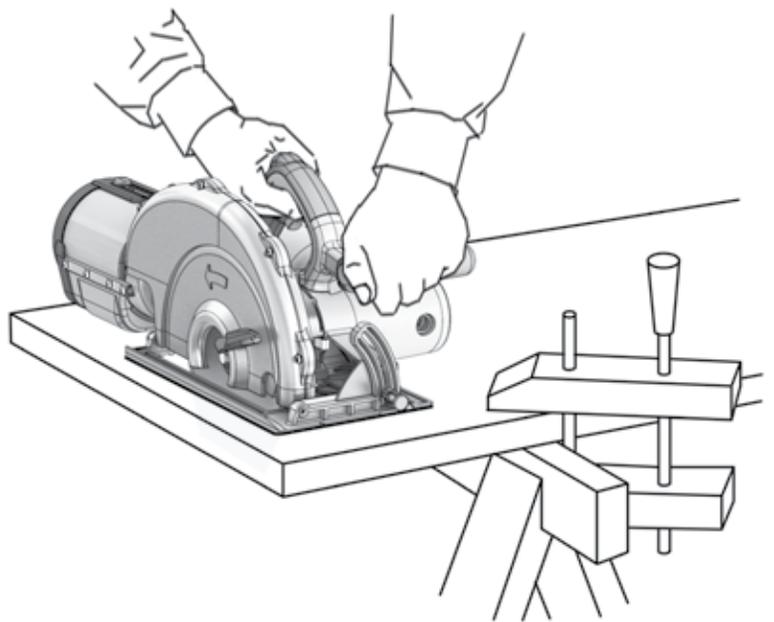
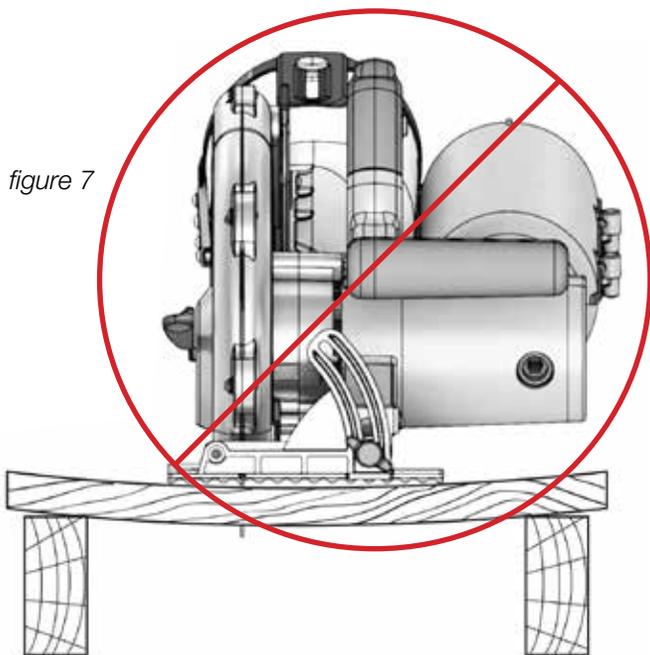


WARNING: When removing the saw from the material being cut be sure the lower guard is fully closed before setting the saw down. Never bind the lower guard such that it remains in the up position thereby leaving the blade exposed.



WARNING: Always maintain proper control of the saw. Loss of control could cause serious injury.

figure 7



Removing the Collected Dust

Removing the Collected Dust (Fig. 8)

The Roan™ saw is designed to collect most of the dust produced during cutting. Some dust will still be visible during cutting. The dust will collect in the cyclone chamber. A small amount of dust may also collect in the filter chamber. Clean the dust from the cyclone and filter chambers after every 100 linear feet of cutting or every hour, whichever comes first.

The dust should be deposited into a 5 gallon bucket or similar receptacle. Place 2 to 3 inches of water in the bucket prior to emptying the saw. The dust will mix with the water creating a mass resembling peanut butter. Dispose of the collected dust in accordance with local guidelines. To empty the cyclone and filter chambers:

1. Grasp the front handle of the saw firmly with your left hand.
2. Remove the cyclone chamber end cap and rotate it to the right.
3. Empty the contents of the cyclone chamber into the bucket.
4. Replace the cyclone end cap pushing firmly to ensure a proper fit.
5. Pull firmly on the filter cap to remove the filter. Empty any accumulated dust from the filter chamber into the bucket. You may find very little dust has accumulated in the filter chamber. If you are not seeing much dust in the filter chamber skip this step.

Notice: Do not allow the cyclone chamber to over fill with dust. This will reduce the saws dust collecting effectiveness and possibly damage the saw.



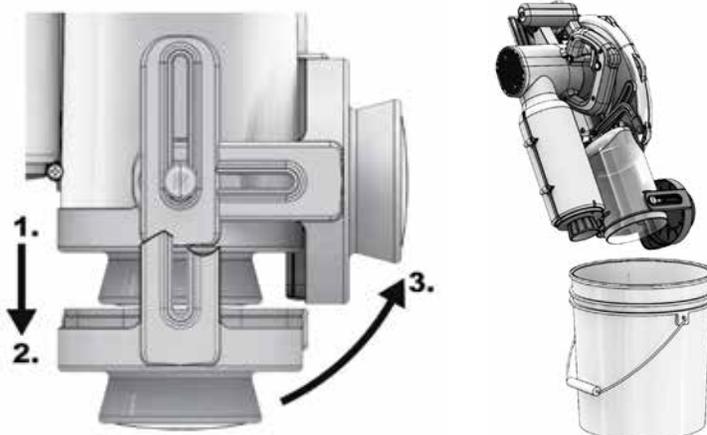
WARNING: Some dust created by power sawing and other construction activities contains chemicals known to the state of California to cause cancer, birth defects or other reproductive harm.

- Avoid prolonged exposure to dust from power sawing and other construction activities. Wear protective clothing and wash exposed areas with soap and water.



WARNING: Use of the saw can produce and/or disperse dust, which may cause serious and permanent respiratory or other injury.

figure 8



Cleaning the Filter

Cleaning the Filter (Fig. 9)

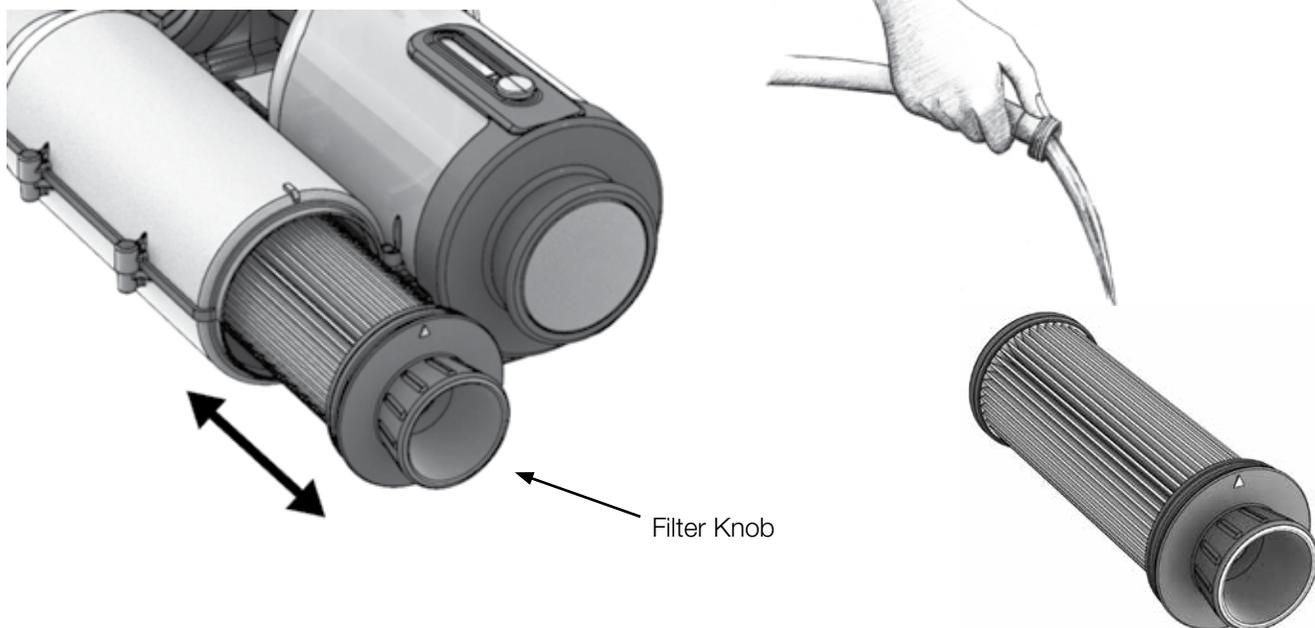
The Roan™ saw is equipped with a highly durable HMWP filter that under normal use and with proper care will not need to be replaced. To clean the filter:

- Remove the filter from the saw by pulling firmly on the filter knob.
- Clean the filter by running it under a stream of clean water until no particulate is visible in the water.
- Allow the filter to dry thoroughly before reinstalling it in the saw. Do not use the filter when it is wet.
- Clean the filter at the end of each day.
- Do not use soap or solvent when cleaning the filter.
- Do not use a pressure washer or fine streams of water to clean the filter.
- Install the filter by placing the filter into the filter chamber and pressing firmly



WARNING: Do not use compressed air to clean the filter or saw. This can cause air born dust which may cause serious and permanent respiratory or other injury.

figure 9



Optimizing Dust Collection

The Roan™ saw is designed to collect a large amount of the dust created during cutting. To optimize dust collection:

- Operate the saw with the saw deck fully retracted.
- Avoid “stack” cutting of fiber cement.
- Clean the filter by lightly tapping it against the bucket being used to collect the cut dust. Do this each time the cyclone chamber is emptied.

For superior dust collection the Roan saw may be attached to a vacuum. Attach the vacuum hose to the tapered filter exhaust. The filter exhaust outlet will accept a 1 ³/₄ - 1 ¹/₄ inch (O.D.) vacuum hose. Since the Roan saw is equipped with a HMWP filter any vacuum may be used, a HEPA vacuum is not necessary.

When removing the dust from the cyclone chamber first detach the vacuum hose or remove the filter from the saw with hose still attached. Refer to the “Removing the Dust” (page 19) for additional emptying directions.

Warranty

ONE YEAR LIMITED WARRANTY

What is covered

MSEJH, LLC warrants the Roan saw for a period of one year from the date of retail purchase. MSEJH, LLC will repair or replace, at its discretion, any Roan saw or part of the Roan saw which proves defective in workmanship or material under normal usage. MSEJH, LLC will only make repairs to the Roan saw or replace the Roan saw within the one year warranty period.

What is not covered

This warranty is non-transferable and applies only to the original retail purchaser. The warranty only covers defects arising during normal usage. The warranty does not cover defects arising from misuse, abuse, modification, neglect or alterations. Consumables such as saw blades and filters are not covered by this warranty. The warranty does not cover repairs or attempted repairs made by an unauthorized service provider.

Additional Information

To obtain further details regarding warranty coverage or to obtain warranty service for the Roan saw contact MSEJH, LLC at 888-340-1322 or visit www.roantools.com.

TO THE EXTENT PERMITTED BY APPLICABLE LAW, ALL IMPLIED WARRANTIES, INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE ARE DISCLAIMED. ANY IMPLIED WARRANTIES (INCLUDING WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE) THAT CANNOT BE DISCLAIMED UNDER THE LAW OF ANY PARTICULAR STATE WILL BE LIMITED TO ONE YEAR FROM THE DATE OF PURCHASE. UNDER NO CIRCUMSTANCES WILL MSEJH, LLC BE RESPONSIBLE FOR INDIRECT, INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow limitations on how long an implied warranty lasts and/or the exclusion or limitation of incidental or consequential damages so the above limitations or exclusions may not apply to you. This warranty gives you specific legal rights, and you may also have other legal rights which vary from state to state.

Warning label replacement: MSEJH, LLC will replace warning label(s), free of charge, if they are missing or illegible. Call 888-340-1322 for a free replacement.

www.roantools.com

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