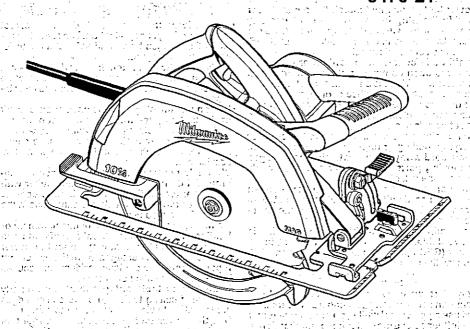


OPERATOR'S MANUAL MANUEL de L'UTILISATEUR MANUAL del OPERADOR

Cat. No. No de cat. 6470-21



101/4" CIRCULAR SAW SCIE CIRCULAIRE 260 mm (101/4") SIERRA CIRCULAR DE 260 mm (101/4")

TO REDUCE THE RISK OF INJURY, USER MUST READ OPERATOR'S MANUAL.

AFIN DE RÉDUIRE LE RISQUE DE BLESSURES, L'UTILISATEUR DOIT LIRE LE MANUEL DE L'UTILISATEUR.

PARA REDUCIR EL RIESGO DE LESIONES, EL USUARIO DEBE LEER EL MANUAL DEL OPERADOR.

GENERAL POWER TOOL SAFETY WARNINGS

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 or battery-operated (cordless) power tool.

WORK AREA SAFETY

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- •Do not operate power tools in explosive etmospheres, 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 bedy 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 edgas 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 ground fault circuit interruptor (GFCI) protocted supply. Use of an GFCI reduces the risk of electric shock.

PERSONAL SAFETY

- Stay plert, 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 energising power tools that have the switch on invites accidents.
- *Remove any odjusting 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 USE AND CARE

- •Do not force the power tool. Use the correct power tool for yeur 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 toel 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 birding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool recaired before use. Many accidents are caused by poorly maintained power tools.
- Keep cutting tools sharp and clean. Properly maintained outting tools with sharp cutting edges are less likely to bind and are easier to control.
- Use the power tool, accessories and tool bits ate. 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.

SERVICE

 Have your power tool serviced by a qualified repair person using only identical replacement perts. This will ensure that the safety of the power tool is maintained.

SPECIFIC SAFETY RULES

Cutting procedures

 ADANGER: 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.

•Do not reach underneath the workpiece. The guard cannot protect you from the blade below the workpiece.

- •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.
- 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.
- •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.
- When ripping, always use a rip fence or straight edge guide. This improves the accuracy of cut and reduces the chance of blade binding.
- Always use blades with correct size and shape (diamond versus round) of arbour holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- 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.

Further safety instructions for all saws Kickback causes and related warnings

- 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.

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, centre 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.

- •Support large panels to minimise 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 this line of cut and near the edge of the panel.
- Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- 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.
- *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

- •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.
- 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.
- •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.
- Always observe that the lower guard is covering the blade before placing saw down on beach or floor. An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is its path. Be aware of the time it takes for the blade to stop after switch is released.
- •Maintain labels and nameplates. These carry important information. If unreadable or missing, contact a MILWAUKEE service facility for a free replacement.
- WARNING Some dust created by power sanding, sawing, grinding, drilling, end other construction activities contains chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:
- •lead from lead-based paint
- ecrystalline silica from bricks and cement and other masonry products, and
- •arsenic and chromium from chemically-treated
- lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles.

GROUNDING

WARNING Improperly connecting the grounding wire can result in the risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the tool. Never remove the grounding prong from the plug. Do not use the tool if the cord or plug is damaged. If damaged, have it repaired by a MILWAUKEE service facility before use. If the plug will not fit the outlet, have a proper outlet installed by a qualified electrician.

Grounded Tools:

Tools with Three Prong Plugs

Tools marked "Grounding Required" have a three wire cord and three prong grounding plug. The plug must be connected to a properly grounded outlet (See Figure A). If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user, reducing the risk of electric shock.

The grounding prong in the plug is connected through the green wire inside the cord to the grounding system in the tool. The green wire in the cord must be the only wire connected to the tool's grounding system and must never be attached to an electrically "live" terminal.

Your tool must be plugged into an appropriate outlet, properly installed and grounded in accordance with all codes and ordinances. The plug and outlet should look like those Fig. A in Figure A.



Double Insulated Tools: Tools with Two Prong Plugs

Tools marked "Double Insulated" do not require grounding. They have a special double insulation system which satisfies OSHA requirements and complies with the applicable standards of Under-

writers Laboratories, Inc., the Canadian Standard Association and the National Electrical Code. Double Insulated tools may be used in either of the 120 volt outlets shown in Figures B and C.



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EXTENSION CORDS

Grounded tools require a three wire extension cord. Double insulated tools can use either a two or three wire extension cord. As the distance from the supply outlet increases, you must use a heavier gauge extension cord. Using extension cords with inadequately sized wire causes a serious drop in voltage, resulting in loss of power and possible tool damage. Refer to the table shown to determine the required minimum wire size.

The smaller the gauge number of the wire; the greater the capacity of the cord. For example, a 14 gauge cord can carry a higher current than a 16 gauge cord. When using more than one extension cord to make up the total length, be sure each cord contains at least the minimum wire size required. If you are using one extension cord for more than one tool, add the nameplate amperes and use the sum to determine the required minimum wire size.

Guidelines for Using Extension Cords

- · If you are using an extension cord outdoors, be sure it is marked with the suffix "W-A" ("W" in Canada) to indicate that it is acceptable for outdoor use.
- Be sure your extension cord is properly wired and in good electrical condition. Always replace a damaged extension cord or have it repaired by a qualified person before using it.
- Protect your extension cords from sharp objects, excessive heat and damp or wet areas.

Recommended Minimum Wire Gauge For Extension Cords*

	Extension Cord Length						
Nameplate Amps	25'	. 50*	75'	100'	150'		
0 - 2.0	18	18	18	18	16		
2.1 - 3.4	18	18	18	16	14		
3.5 - 5.0	18	18	16	14	12		
5.1 - 7.0	18	16	14	12	. 12		
7.1 - 12.0	16	14	12	10			
12.1 - 16.0	-14	- 12	10		-		
16.1 - 20.0	12	10					

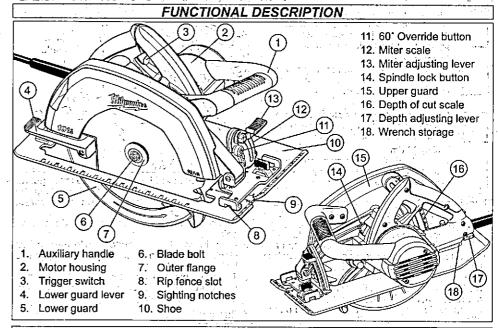
Based on limiting the line voltage drop to five volts at 150% of the rated amperes.

READ AND SAVE ALL INSTRUCTIONS FOR FUTURE USE.

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L	SPECIFICATIONS								
	Cat. No.	Volts AC	Amps	No Load RPM	/		Max Cutting Depth at 90°	Max Cutting Depth at 45	Max Cutting Depth at 60°
	6470-21	120	15	5200	101/4":	5/8"	0 to 3-13/16"	0 to 2-3/4"	. 0 to 1-3/4"

CVMPOLOCY

STWBULUGT								
	Double lasulated	A	Amps					
V 22 2	Volts	π _ο χχχχmin.¹	No Load Revolutions per Minute (RPM)					
- (1-10)	Alternating Current	c (jr)ns	Underwriters Laboratories, Inc. United States and Canada					

ASSEMBLY

WARNING To reduce the risk of injury. always unplug tool before changing or removing accessories. Only use accessories specifically recommended for this tool. Others may be hazardous.

WARNING Only use accessories with maximum speed rating at least as high as nameplate RPM of tool. um gradi (poutou a juliam), seu koma deux no siko nu tvirme) vieu di littoria migru vasabitiba nouzi in littoria despisana a globadose, si di opisa,

Selecting Blade -doale3:S Select a blade appropriate for your application. Refer to the "Accessories" section for a list of blades to be used for the proper applications of this tool. Always use sharp blades. Dull blades tend to overload the tool and increase the chance of KICK-BACK. Only use thin kerf blades with a maximum safe operating speed greater than the no load RPM marked on the tool's nameplate. Read the blade manufacturer's instructions before use. Do not use any type of abrasive cut-off wheel or dry diamond cutting blades. Use the correct blade type for your application. Using the wrong blade may result in reduced performance or damage to the blade. Do not use blades that are cracked or have broken teeth. Do not sharpen ferrous metal cutting blades; see the blade manufacturer's recommendations regarding sharpening.

Fig. 1

Rip & Crosscut

A multi-purpose blade for ripping, cross cutting and mitering in hardwoods, softwoods, plywood and composition materials.



Framing-Rip

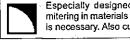
Designed for fast and accurate ripping along the grain in hard-or softwoods where a smooth cross cut is not necessary.

Plywood-Veneer



Recommended for cutting plywood, composition materials and all types of wood where a slightly smoother finish is needed.

Finish & Trim



Especially designed for cross cutting and mitering in materials where a very smooth cut is necessary. Also cuts aluminum.

Checking the Operation of the Lower Guard Check the operation and condition of the lower guard lever. If the guard and the lever are not operating properly, they must be serviced before use. Lower quard may operate sluggishly due to damaged parts, gummy deposits, or a buildup of debris. 1. Unplug tool before checking the lower guard.

2. Place the tool on its side.

NOTE: This procedure will not show proper lower guard operation if the tool is not on its side.

Grasp the lower quard by the sides and push it all the way back into the blace housing.

Release the lower quard.

 If the guard immediately springs back into place, it is working correctly and you may continue with

. If the guard does not immediate spring back into place, clean the upper and lower guards to remove all chips and debris. Then, check the operation again by starting with step 1.

· If the guard still does not immediately spring back into place, contact a MILWAUKEE service facility for repairs.

Installing Blade

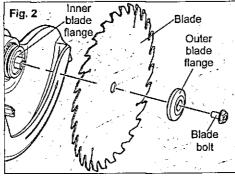
1. Unplug tool.

2. To remove blade bolt from spindle, push in spindle lock button while turning bolt counterclockwise with 6 mm hex wrench (provided with tool) until spindle lecks. Remove bolt and outer blade flange.

NOTE: Do not remove inner blade flange. Large diameter of inner flange (Fig. 2) should face the channels of miles range (e.g., 2) should race the blade. Of organization of the continuous continuo

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Push lower quard lever up to raise lower guard. Place blade on spindle with teeth pointing the same direction as the arrow on lower guard. Release lower quard lever.

4. Place outer blade flange and blade bolt on spindle.

5. Push in spindle lock button while turning bolt clockwise with 6 mm hex wrench until spindle locks. Tighten bolt securely.

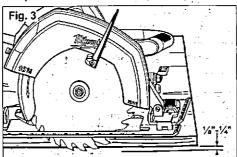
6. To remove blade, reverse the above steps. Always clean dirt and sawdust from spindle, flandes, upper quard and lower quard after use.

Adjusting Depth

1. Únplua tool.

2. To adjust depth of cut, place saw on edge of workbench and pull up depth adjusting lever.

3. Keeping shoe flat against workbench, raise or lower saw to desired position. Lowering saw will increase depth of cut. Raising saw will decrease depth of cut. For proper depth setting, blade should extend no more than 1/4" below material being cut. Use the depth of cut scale for standard depths.

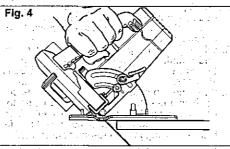


Push down depth adjusting lever to lock. Check to be sure depth adjusting lever is secure.

Adjusting Miter Angle

1. Unplug tool. 2. To adjust angle of cut, place saw on edge or workbench and pull up miter adjusting lever.

and the particular of the first control of the standard of the 3. Hold down shoe and slide saw to desired position (up to 45°) according to markings on miter scale.



4. To increase the angle of cut up to 60°, push in the override button and tip the saw to the desired jangle... in in isstingga sijajens in titosita

Push down miter lever to lock. Check angle with a square. Also check to be sure miter adjusting lever is secure before cutting.

Adjusting the Blade to Shoe

The shoe has been adjusted at the factory to a 90 degree setting. Inspect the saw regularly to make sure the blade is 90 degrees to the shoe.

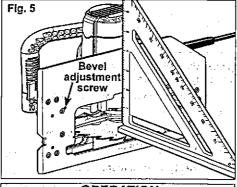
Unplug tool.

2. Set the bevel pointer to zero.

3. To make sure the blade is 90 degrees to the shoe, place saw on the blade side and retract lower guard. Place a square against the blade and shoe to inspect the degree setting (Fig. 5).

4. To adjust the degree setting, loosen the bevel adjusting knob. Turn the bevel adjustment screw in or out until the blade Is at a 90 degree angle with the shoe.

5. Tighten the bevel adjusting knob securely.



OPERATION

WARNING To reduce the risk of injury, always unplug tool before attaching or removing accessories or making adjustments. Use only specifically recommended accessories. Others may be hazardous.

WARNING To reduce the risk of Injury, wear safety goggles or glasses with side shields.

Kickback causes and related warnings

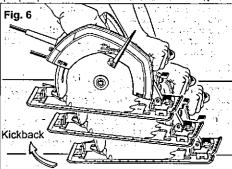
 Kickback is a sudden reaction to a pinched. bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the workpiece toward the operator:

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.

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:

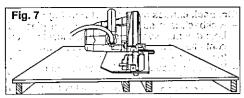
 Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade. Kickback could cause the saw to jump backwards, but kickback forces can be controlled by the operator, if proper precautions are taken.



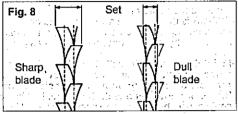
·When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur, investigate and take corrective actions to eliminate the cause of blade binding.

 When restarting a saw in the workpiece, centre 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.

 Support large panels to minimise 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.



 Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.



 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.

•Use extra caution when sawing into existing . • Failure to use rip fence or guide walls or other blind areas. The protruding blade If blade binds, smokes, or turns blue from friction: may cut objects that can cause kickback.

General Operation

Always clamp workpiece securely on a saw horse or bench. See "Applications" for the correct way to support your work in different situations. A typical application is shown below.

1. Draw cutting line. Place front of shoe on edge of workpiece without making blade contact. Hold switch handle with one hand and top handle with the other.

2. Line up sighting notch with your cutting line. Position arms and body to resist kickback. Pull trigger, allowing motor to reach full speed before beginning cut.

3. While cutting, keep shoe flat against workpiece and maintain a firm grip. Do not force saw through the work. Forcing a saw can cause kickback.

4. If making a partial cut, restarting in mid-cut or correcting direction, allow blade to come to a complete stop. To resume cutting, center blade in kerf, back saw away from cutting edge a few inches, pull trigger and re-enter cut slowly.

5. If saw stalls, maintain a firm grip and release trigger immediately. Correct problem before continuing (see "Preventing Kickback").

6. After finishing a cut, be sure lower guard closes and blade comes to a complete stop before setting down saw.

Troubleshooting

If blade does not want to follow straight line:

Teeth are dull on one side. This is caused by hitting a hard object such as a nail or stone, dulling teeth on one side. The blade wants to cut to the side with the sharpest teeth.

Shoe is out of line or bent

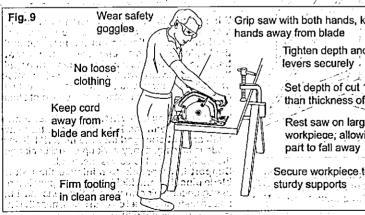
• Blade is bent

Blade is dull to the first blue from metals.

Blade is on backwards to be first blue is of the backwards.

Blade is bent Blade is dirty

Workpiece is not properly supported
 Failure to use correct blade



Grip saw with both hands, keeping hands away from blade

> Tighten depth and miter adjusting levers securely

Set depth of cut 1/8"-1/4" greater than thickness of stock

Cartinate Common tempor from The Common Comm

Rest saw on larger part of workpiege, allowing smaller part to fall away

Secure workpiece to sturdy supports

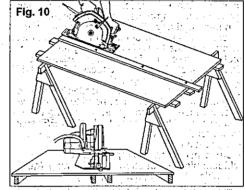
APPLICATIONS

MARNING To reduce the risk of electric shock, check work area for hidden pipes and wires before making plunge cuts.

Cutting Large Panels

Large panels and long boards sag or bend if they are not correctly supported. If you attempt to cut without leveling and properly supporting the piece. the blade will tend to bind, causing kickback,

Support large panels. Be sure to set the depth of cut so that you cut through workpiece only and not through the supports.



Ripping Wood

Ripping is cutting lengthwise with the grain. Select the proper blade for your job. Use a rip fence for rips 4" wide or less. To install a rip fence, slide the bar through the rip fence slot in either side of the shoe. Adjust for desired width by lining up the selected measurement with the sighting notch and lock setting with thumb screw.

When ripping widths greater than 4", clamp or tack. 1" lumber to the workpiece as a guide. ~

Cross-Cutting Wood

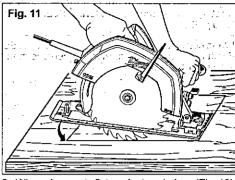
Cross-cutting is cutting across the grain. Select the proper blade for your job. Advance saw slowly to avoid the tendency of wood fibers to tear and lift.

Pocket Cutting

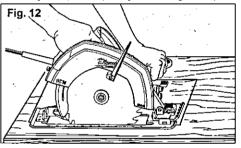
Pocket cuts are made in the middle of the workpiece when it can not be cut from an edge. We recommend using a Sawzall® for this type of cut. However, if you must use a circular saw to make a pocket cut, USE EXTREME CAUTION.

1. Beginning at a corner, line up sighting notch with your cutting line. Tilt saw forward, firmly fixing front of shoe on workpiece. Blade should be just above cutting line, but not touching it. Raise lower quard using lower guard lever.

2. Pull trigger. Allow the blade to come to full speed. Using front of shoe as a hinge point, gradually lower back end of saw into workpiece (Fig. 11).



When shoe rests flat against workpiece (Fig. 12). move saw to far corner. Release trigger and allow blade to come to a complete stop before removing it from workpiece. Repeat the above steps for each side of the opening. Use a Sawzall®, jig saw, or small hand saw to finish corners if they are not completely cut through.



WARNING Dust, chips, and grit can cause guard to hang up at any time. If saw is used to cut masonry or metal, reserve and mark it for that purpose only and return it to a MILWAUKEE service facility for cleaning and testing before using it for wood cutting.

Cutting Masonry and Metal

MILWAUKEE circular saws are not intended for continuous use in cutting metal or masonry. When cutting these materials, use the correct blade. MILWAUKEE does not recommend using bonded abrasive wheels on circular saws for any application.

WARNING Only use accessories with maximum speed rating at least as high as nameplate RPM of tool.

When cutting masonry, use a diamond blade. Make successive passes at depths of less than 1/4" to achieve the desired depth. Cutting at a depth of more than 1/4" will damage wheel. Unplug the tool and frequently clean dust from air vents and quards.

WARNING Do not use tool for cutting metal near flammable material. Sparks may cause fire.

When cutting metal, use a metal cutting blade. Set depth of cut to full depth. Protect everyone in the area from sparks.

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ACCESSORIES

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WARNING To reduce the risk of injury, always unplug the tool before attaching or removing accessories. Use only specifically recommended accessories. Others may be hazardous.

For a complete listing of accessories refer to your MILWAUKEE Electric Tool catalog or go on-line to www.milwaukeetool.com. To obtain a catalog, contact your local distributor or a service center.

MAINTENANCE

MARNING To reduce the risk of injury, always unplug your tool before performing any maintenance. Never disassemble the tool or try to do any rewiring on the tool's electrical system. Contact a MILWAUKEE service facility for ALL repairs.

Maintaining Tools

Keep your tool in good repair by adopting a regular maintenance program. Before use, examine the general condition of your tool. Inspect guards, switches, tool cord set and extension cord for damage. Check for loose screws, misalignment, binding of moving parts, improper mounting, bro-ken parts and any other condition that may affect its safe operation. If abnormal noise or vibration occurs, turn the tool off immediately and have the problem corrected before further use. Do not use a damaged tool, Tag damaged tools "DO NOT USE" until repaired (see "Repairs").

Under normal conditions, relubrication is not necessary until the motor brushes need to be replaced. After six months to one year, depending on use. return your tool to the nearest MILWAUKEE service facility for the following:

- Lubrication
- Brush inspection and replacement
- · Mechanical inspection and cleaning (gears, spindles, bearings, housing, etc.)
- Electrical inspection (switch, cord, armature, etc.)
- Testing to assure proper mechanical and electrical operation

WARNING To reduce the risk of injury, electric shock and damage to the tool, never Immerse your tool in liquid or allow a liquid to flow inside the tool.

Cleaning

Clean dust and debris from vents. Keep the tool handles clean, dry and free of oil or grease. Use only mild soap and a damp cloth to clean your tool since certain cleaning agents and solvents are harmful to plastics and other insulated parts. Some of these include: gasoline, turpentine, lacquer thinner, paint thinner, chlorinated cleaning solvents, ammonia and household detergents containing ammonia. Never use flammable or combustible solvents around tools.

If your tool is damaged, return the entire tool to the nearest service center.

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LIMITED WARRANTY - USA AND CANADA

Every MILWAUKEE power tool (including cordless product - tool, battery pack(s) - see separate & distinct CORDLESS BATTERY PACK LIMITED WARRANTY statements & battery charger and Work Lights*) is warranted to the original purchaser only to be free from defects in material and workmanship. Subject to certain exceptions. MILWAUKEE will repair or replace any part on an electric power tool which, after examination, is determined by MILWAUKEE to be defective in material or workmanship for a period of five (5) years* after the date of purchase unless otherwise noted. Return of the power tool to a MILWAUKEE factory Service Center location or MILWAUKEE Authorized Service Station, freight prepaid and insured, is required. A copy of the proof of purchase should be included with the return product. This warranty does not apply to damage that MILWAUKEE determines to be from repairs made or attempted by anyone other than MILWAUKEE authorized personnel, misuse, afterations, abuse, normal wear and tear, lack of maintenance, or accidents.

*The warranty period for, Job Site Radios, M12™ Power Port, M18™ Power Source, and Trade Titan™ Industrial Work Carts is one (1) year from the date of purchase, The warranty period for a LED Work Light and LED Upgrade Bulb is a limited LIFETIME warranty to the original purchaser only, if during normal use the LED bulb

fails the Work Light or Upgrade Bulb will be replaced free of charge.

*This warranty does not cover Air Nailers & Stapler, Airless Paint Sprayer, Cordless Battery Packs, Gasoline Driven Portable Power Generators, Hand Tools, Hotst - Electric, Lever & Hand Chain; M12TM Heated Jackets, Reconditioned product and Test & Measurement products. There are separate and distinct warranties available for these products.

Warranty Registration is not necessary to obtain the applicable warranty on a MILWAUKEE power tool product. The manufacturing date of the product will be used to determine the warranty period if no proof of purchase is

The manufacturing date of the product will be used to determine the warranty period if no proof of purchase is provided at the time warranty service is requested.

ACCEPTANCE OF THE EXCLUSIVE REPAIR AND REPLACEMENT REMEDIES DESCRIBED HEREIN IS A CONDITION OF THE CONTRACT FOR THE PURCHASE OF EVERY MILWAUKEE PRODUCT. IF YOU DO NOT AGREE TO THIS CONDITION, YOU SHOULD NOT PURCHASE THE PRODUCT. IN NO EVENT SHALL MILWAUKEE BE LIABLE FOR ANY INCIDENTAL, SPECIAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, OR FOR ANY COSTS, ATTORNEY FEES, EXPENSES, LOSSES OR DELAYS ALLEGED TO BE AS A CONSEQUENCE OF ANY DAMAGE TO, FAILURE OF, OR DEFECT IN ANY PRODUCT INCLUDING, BUT NOT LIMITED TO, ANY CLAIMS FOR LOSS OF PROFITS. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. SO THE ABOVE LIMITATION OR EYOLLISON MAY NOT APPLY CIDENTAL OR CONSEQUENTIAL DAMAGES. CIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER EXPRESS WARRANTIES, WRITTEN OR ORAL. TO THE EXTENT PERMITTED BY LAW, MILWAUKEE DISCLAIMS ANY IMPLIED WARRANTIES. INCLUDING WITHOUT LIMITATION ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE; TO THE EXTENT SUCH DISCLAIMER IS NOT PERMITTED BY LAW, SUCH IMPLIED WARRANTIES ARE LIMITED TO THE DURATION OF THE APPLICABLE EXPRESS WARRANTY AS DESCRIBED ABOVE. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU, THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE. This warranty applies to product sold in the U.S.A. and Canada only.

Please consult the 'Service Center Search' in the Parts & Service section of MILWAUKEE's website www.mil-waukeetool.com or call 1.800.SAWDUST (1.800.729.3878) to locate your nearest service facility for warranty

and non-warranty service on a Milwaukee electric power tool.

LIMITED WARRANTY - MEXICO, CENTRAL AMERICA AND CARIBBEAN

TECHTRONIC INDUSTRIES' warranty is for 5 year since the original purchase date.

This warranty card covers any defect in material and workmanship on this Power Tool

To make this warranty valid, present this warranty card, sealed/stamped by the distributor or store where you purchased the product, to the Authorized Service Center (ASC). Or, if this card has not been sealed/stamped, present the original proof of purchase to the ASC.

original proof of purchase to the ASC.
Call toll-free 1 800 832 1949 to find the nearest ASC, for service, parts, accessories or components.

Procedure to make this warranty valid

Take the product to the ASC, along with the warranty card sealed/stamped by the distributor or store where you purchased the product, and there any faulty piece or component will be replaced without cost for you. We will cover all freight costs relative with this warranty process.

Exceptions

This warranty is not valid in the following situations:

- a) When the product is used in a different manners from the end-user guide or instruction manual.
- b) When the conditions of use are not normal.
- b) When the conditions of use are not normal.
 c) When the product was modified or repaired by people not authorized by TECHTRONIC INDUSTRIES.
 Note: If cord set is damaged, it should be replaced by an Authorized Service Center to avoid electric risks.

Model:	- 27	411			75.5		·;	- '
Date of	Purch	ase:	•	F 18 1		.: .	_	
Distribu						٠.		

SERVICE AND ATTENTION CENTER Av Presidente Mazarik 29 Piso 7, 11570 Chapultepec Morales Miguel Hidalgo, Distrito Federal, Mexico Ph. 52 55 4160-3547

IMPORTED AND COMMERCIALIZED BY: ... TECHTRONIC INDUSTRIES MEXICO, .S.A. DE C.V. Av Presidente Mazarik 29 Piso 7, 11570 Chapultepec Morales Miguel Hidalgo, Distrito Federal, Mexico

UNITED STATES MILWAUKEE Service

MILWAUKEE prides itself in producing a premium quality product that is Nothing But Heavy Duty®. Your satisfaction with our products is very important to us! If you encounter any problems with the operation of this tool, or you would like to locate the factory Service/Sales Support Branch or authorized service station nearest you, please call...

Additionally, we have a nationwide network of authorized Distributors ready to assist you with your tool and accessory needs. Check your "Yellow Pages" phone directory under "Tools-Electric" for the names & addresses of those nearest you or see the Where To Buy section of our website.

1-800-SAWDUST

(1.800.729.3878)
Monday-Friday
7:00 AM - 6:30 PM
Central Time
or visit our website at
www.milwaukeetool.com

For service information, use the 'Service Center Search' icon found in the 'Parts & Service' section.

Contact our Corporate After Sales Service Technical Support about ...

- Technical Questions
- Service/Repair Questions
- Warranty call: 1-800-SAWDUST

58-14-6470d4

fax: 1.800.638.9582 email: metproductsupport@milwaukeetool.com

Register your tool online at www.milwaukeetool.com and...

- receive important notifications regarding your purchase
- ensure that your tool is protected under the warranty
- become a Heavy Duty club member

CANADA - Service MILWAUKEE

MILWAUKEE prides itself in producing a premium quality product that is Nothing But Heavy Duty. Your satisfaction with our products is very important to us!

If you encounter any problems with the operation of this tool, or you would like to locate the factory Service/Sales Support Branch or authorized service station nearest you, please oall...

1.800.268.4015

Monday - Friday 7:00 - 4:30 CST fax: 866,285,9049

Milwaukee Electric Tool (Canada) Ltd 140 Fernstaff Court, Unit 4 18129 111 Avenue NW Vaughan, ON L4K 3L8 Edmonton, AB T5S 2P2

Additionally, we have a nationwide network of authorized Distributors ready to assist you with your tool and accessory needs. Call 1.800.268.4015 to find the names and addresses of the closest retailers or consult "Where to buy" on our Web site www.milwaukeetool.com

MILWAUKEE est fier de proposer un produit de première qualité Nothing But Heavy Duty®. Votre satisfaction est ce qui compte le plus!

En cas de problèmes d'utilisation de l'outil ou pour localiser le centre de service/ventes ou le centre d'entretien le plus proche, appelez le...

> 1.800.268.4015 Lundi – Vendredi 7:00 – 4:30 CST fax: 866.285.9049

Milwaukee Electric Tool (Canada) Ltd

140 Fernstaff Court, Unit 4 18129 111 Avenue NW Vaughan, ON L4K 3L8 Edmonton, AB T5S 2P2

Notre réseau national de distributeurs agréés se tient à votre disposition pour fournir l'aide technique, l'outillage et les accessoires nécessaires. Composez le 1.800.268.4015 pour obtenir les noms et adresses des revendeurs les plus proches ou bien consultez la section «Où acheter» sur notre site web à l'adresse www.milwaukeetool.com

MEXICO - Soporte de Servicio MILWAUKEE

CENTRO DE ATENCION A CLIENTES

Av. Presidente Masarik 29 Piso 7 CP. 11570. Col. Chapultepec Morales Del. Miguel Hidalgo, Distrito Federal, México 01-800-8321949

Lunes a Viernes (9am a 6pm)
O contáctanos en www.milwaukeetool.com.mx

Para información de Centros de Servicio busca el icono "Servicio al cliente"- "Contáctanos"

Contacta nuestro servicio técnico para....

Preguntas Técnicas

· Asesoría, servicio y reparación

Garantía

Adicionalmente, tenemos una red nacional de distribuidores autorizados listos para ayudarle con su herramienta y sus accesorios. Por favor, llame al 01 800 8321949 para obtener los nombres y direcciones de los más cercanos a usted, o consulte la sección "Dónde Comprar" en nuestro sitio web www.milwaukeetool.com.mx

MILWAUKEE ELECTRIC TOOL CORPORATION
13135 West Lisbon Road • Brookfield, Wisconsin, U.S.A. 53005