BENCHMARK™ MC

14” ABRASIVE CHOP SAW
1347-100

LIMITED 5 YEAR* WARRANTY

5 Year Limited Warranty

Intertek
3151836
R7201

READ ALL INSTRUCTIONS BEFORE FIRST USE.
KEEP THIS MANUAL FOR FUTURE REFERENCE.
KEEP AWAY FROM CHILDREN.

WEAR CSA APPROVED EYE PROTECTION

WEAR EAR PROTECTION

WEAR A FACE MASK

14” ABRASIVE CHOP SAW	
Rating	120V~ 60 Hz, 15 Amp
No-Load Speed	4,000 RPM
Cut-Off Wheel Diameter	14"(355 mm)
Arbor	1" (25 mm)
Max. Cutting Depth	5" (127 mm) Round Pipe
Max. Cutting Depth	4.72" (120 mm) Square
Power Cord Length	10 Ft. (3 m)
Replacement Cut-off wheel	1249-618
Weight	34 lb. (15.4kg)

NEED ASSISTANCE?

Call us on our toll- free customer support line:
1-866-349-8665 (Monday through Friday 9am – 5pm Eastern Standard Time)

- Technical questions
- Replacement parts
- Parts missing from package

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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.

SYMBOL	MEANING
	**ALWAYS WEAR EYE PROTECTION THAT CONFORMS WITH CSA Z94.3 or ANSI SAFETY STANDARD Z87.1** FLYING DEBRIS can cause permanent eye damage. Prescription eyeglasses ARE NOT a replacement for proper eye protection. **Non-compliant eyewear can cause serious injury if broken during the operation of a power tool.**
	Use hearing protection, particularly during extended periods of operation of the tool, or if the operation is noisy.
	**WEAR A DUST MASK THAT IS DESIGNED TO BE USED WHEN OPERATING A POWER TOOL IN A DUSTY ENVIRONMENT.** 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.

READ ALL INSTRUCTIONS

WORK AREA SAFETY

• **Keep work area clean and well lit.** Cluttered areas and benches invite accidents

• **Avoid dangerous environments**. Do not use your power tool in rain, damp or wet locations or in the presence of explosive atmospheres (gaseous fumes, dust or fl ammable materials). Remove materials or debris that may be ignited by sparks.

• **Keep bystanders away**.. Children and bystanders should be kept at a safe distance from the work area to avoid distracting the operator and contacting the tool or extension cord.

• **Protect others in the work area** from debris such as chips and sparks. Provide barriers or shields as needed.

• **Make workshop child proof** with padlocks, master switches, or by removing starter keys

ELECTICAL SAFETY

• **Grounded tools must be plugged into an outlet properly installed and grounded in accordance with all codes and ordinances**. Never remove the grounding prong or modify the plug in any way. Do not use any adaptor plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly grounded. If the tool should electrically malfunction or break down, grounding provides a low resistance path to carry electricity away from the user.

• **Double insulated tools are equipped with a polarized plug (one blade is wider than the other). This plug will fit in a polarized outlet only one way. If the plug does not fit fully in the outlet, reverse the plug. If it still does not fit, contact a qualified electrician to install a polarized outlet. Do not change the plug in any way**. Double insulation eliminates the need for the three wire grounded power cord and grounded power supply system.

• **Guard against electric shock**. Prevent body contact with grounded surfaces such as pipes, radiators, ranges and refrigerators. When making blind or plunge cuts, always check the work area for hidden wires or pipes. Hold your tool by insulated nonmetal grasping surfaces. Use a Ground Fault Circuit Interrupter (GFCI) to reduce shock hazards.

• **Do not expose to rain or use in damp locations.**

• **Do not abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away form heat, oil, sharp edges or moving parts**. **Replace damaged cords immediately**. Damaged cords increase the risk of electric shock

PERSONAL SAFETY

• **Know your power tool**. Read this manual carefully to learn your power tool's applications and limitations as well as potential hazards associated with this type of tool.

• **Stay alert, watch what you are doing, and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication**. A moment of inattention while operating power tools may result in serious personal injury.

• **Dress properly**. Do not wear loose clothing or jewellery. Wear a protective hair covering to contain long hair. These may be caught in moving parts. When working outdoors, wear rubber gloves and insulated non-skid footwear. Keep hands and gloves away from moving parts.

• **Reduce the risk of unintentional starting**. Be sure your tool is turned off before plugging it in. Do not use a tool if the power switch does not turn the tool on and off. Do not carry a plugged-in tool with your finger on the switch.

• **Remove all adjusting keys and wrenches**. Make a habit of checking that adjusting keys, wrenches, etc. are removed from the tool before turning it on.

• **Do not overreach.** Maintain control. Keep proper footing and balance at all times. Maintain a firm grip. Use extra care when using tool on ladders, roofs, scaffolds, etc.

• **Use safety equipment**. Everyone in the work area **should wear safety goggles or glasses with side shields** complying with current safety standards. Everyday eyeglasses only have impact resistant lenses. They are not safety glasses. Wear hearing protection during extended use and a dust mask for dusty operations. Hard hats, face shields, safety shoes, etc. should be used when specif ed or necessary. Keep a fire extinguisher nearby.

• **Keep guards in place** and in working order.

• **Never stand on tool.** Serious injury could occur if the tool is tipped or if the cutting tool is unintentionally contacted.

• **Keep hands away from all cutting edges and moving parts.**

POWER TOOL USE AND CARE

• **Secure work**. Use a clamp, vise or other practical means to hold your work securely, freeing both hands to control the tool.

• **Do not force tool**. Your tool will perform best at the rate for which it was designed. Excessive force only causes operator fatigue, increased wear and reduced control.

• **Use the right tool**. Do not use a tool or attachment to do a job for which it is not recommended. For example, do not use a circular saw to cut tree limbs or logs. Do not alter a tool.

• **Unplug tool** when it is not in use, before changing accessories or performing recommended maintenance.

• **Store idle tools.** When not in use, store your tool in a dry, secured place. Keep out of reach of children.

• **Never leave the tool running unattended**. Turn power off. Do not leave the tool until it comes to a complete stop

• **Check for damaged parts. Inspect guards and other parts before use**. Check for misalignment, binding of moving parts, improper mounting, broken parts and any other conditions that may affect 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. A guard or other damaged part should be properly repaired or replaced by a qualified technician. For all repairs, insist on only identical replacement parts.

• **Use proper accessories**. Consult this manual for recommended accessories. Using improper accessories may be hazardous. Be sure accessories are properly installed and maintained. Do not defeat a guard or other safety device when installing an accessory or attachment.

• **Maintain tools carefully.** Keep handles dry, clean and free from oil and grease. Keep cutting edges sharp and clean. Follow instructions for lubricating and changing accessories. Periodically inspect tool cords and extension cords for damage. Have damaged parts repaired or replaced by a qualified technician.

• **Maintain labels & nameplates**. These carry important information. If unreadable or missing, contact Customer Service @ 1-866-349-8665.

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. The use of unauthorized parts or failure to follow maintenance instructions may create a risk of shock or injury

SPECIFIC SAFETY RULES

1. Know your Chop Saw. Carefully 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.
2. 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.
3. Glasses or goggles not in compliance with ANSI Z87.1 could cause serious injury when they break.
4. Always wear hearing protection and a dust mask. Use only in a well-ventilated area. Using personal safety devices and working in a safe environment reduces the risk of injury.

   ⚠ **WARNING:** Always unplug the tool from the power source before changing the cut-off wheel or when cleaning the tool.

   ⚠ **WARNING:** Never place your hands or fingers near the cut-off wheel while the tool is running. Severe injury will result.

   ⚠ **WARNING:** Never install a saw blade on this tool. It is designed ONLY for use with abrasive cut-off wheels.

   ⚠ **WARNING: Never turn the Chop Saw ON with the cut-off wheel touching the work surface.**
5. Use this Chop Saw for cutting steel only. Cutting ceramic materials will create excessive dust and cause damage to the motor.
6. Use only cut-off wheels in compliance with ANSI Standard 87.1 and rated for a speed greater than 4000 RPM.
7. Always use a dust mask along with safety goggles when operating the Chop Saw.
8. Always use hearing protection when operating of the Chop Saw.
9. DO NOT cut material too small to be securely held in the vise.
10. Always keep your hands out of the path of the cut-off wheel. Avoid awkward hand positions where a sudden slip could cause your hand to move into the path of the cut-off wheel. Keep hands away from wheels. Do not reach underneath work or around or over the wheel while wheel is rotating. Do not attempt to remove cut material when wheel is moving.
11. Secure the workpiece. Use the clamping system provided with the Chop Saw. It is safer than using your hand.
12. Make sure there are no foreign objects in the path of the workpiece to be cut.
13. The cut-off wheel must be securely attached as described in this Owner's Manual before connecting the tool to the power source. Failure to do so will increase the risk of serious injury if the cut-off wheel shatters or comes loose.
14. Make sure the guard is installed and in proper working order before operating the Chop Saw.
15. Cut-off wheels must be stored in a dry location to prevent deterioration.
16. Before attaching the cut-off wheel, inspect it for visible defects. If cracked, chipped or warped, DO NOT install it.

    IMPORTANT- Ensure the cut-off wheel has not expired. Expiry date is located on the bore ring on the wheel. Do not use an expired cut-off wheel. Replace with a new wheel.
17. DO NOT over tighten the clamp nut on the cut-off wheel. Excessive tightening may cause the wheel to crack and possibly shatter during operation.
18. DO NOT use the Chop Saw if the wheel flanges or cap screws are missing or improperly installed.
19. Dust and abrasive materials should not be allowed to build up in the workshop. Hot metal sparks could start a fire.
20. DO NOT remove the soft paper in the centre of the cut-off wheel.
21. DO NOT alter or enlarge the center hole of the cut-off wheel as this could result in the wheel shattering.
22. AVOID ACCIDENTAL STARTING. Be sure switch is off when plugging in any tool.
23. USE RECOMMENDED ACCESSORIES. Consult the operator’s manual for recommended accessories. The use of improper accessories may risk injury.
24. CHECK DAMAGED PARTS. Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function.

25. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation. A guard or other part that is damaged must be properly repaired or replaced by an authorized service center to avoid risk of personal injury.
26. USE THE RIGHT DIRECTION OF FEED. Feed work into a wheel or cutter against the direction of rotation of blade or wheel only.
27. ALWAYS USE AN OUTDOOR EXTENSION CORD MARKED “W-A” OR “W”. These cords are rated for outdoor use and reduce the risk of electric shock.
28. ALWAYS KEEP THE SPLASH HOOD IN PLACE and in working order.
29. WHEEL COASTS AFTER BEING TURNED OFF.
30. NEVER USE IN AN EXPLOSIVE ATMOSPHERE. Normal sparking of the motor could ignite fumes.
31. INSPECT TOOL CORDS PERIODICALLY. If damaged, have repaired by a qualified service technician at an authorized service facility.
32. Stay constantly aware of cord location and keep it well away from the rotating wheel.
33. INSPECT EXTENSION CORDS PERIODICALLY and replace if damaged.
34. GROUND ALL TOOLS. If tool is equipped with three- prong plug, it should be plugged into a three-hole electrical receptacle.
35. ONLY POWER THE TOOL WITH A GFCI (GROUND FAULT CIRCUIT INTERRUPTOR) PROTECTED OUTLET.
36. CHECK WITH QUALIFIED ELECTRICIAN or service personnel if the grounding instructions are not completely understood or if in doubt as to whether the tool is properly grounded.
37. DO NOT MODIFY the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.
38. DOUBLE CHECK ALL SETUPS. Make sure cut-off wheel is tight and not contacting saw or workpiece before connecting to power supply.
39. STAY ALERT AND EXERCISE CONTROL. Watch what you are doing and use common sense. Do not operate tool when you are tired. Do not rush.

⚠ **WARNING:** Use only cut-off wheels that are recommended for this Chop Saw. Follow the instructions that accompany the cut-off wheels. The use of improper cut-off wheels may result in injury to the operator or damage to the Chop Saw.

⚠ **WARNING:** To avoid fire or toxic reaction, never use gasoline, naphtha, acetone, lacquer thinner or similar highly volatile solvents to clean the tool.

⚠ **ELECTRICAL WARNING:** This product is designed to operate on a properly grounded 120 volt, 60Hz, single-phase alternating current (AC) power source fused with a time delayed fuse or circuit breaker. It is recommended that a qualified electrician verify the ACTUAL VOLTAGE at the receptacle into which the product will be plugged and confirm that the receptacle is properly fused and grounded.

DO NOT OPERATE THIS PRODUCT if the ACTUAL power source voltage is less than 105 Volts AC or greater than 132 Volts AC. Contact a qualified electrician if this problem exists. Improper performance and/or damage to the product will result if operated on inadequate or excessive power.

DO NOT abuse cord. Never use the cord to carry tools or pull the plug from an outlet. Keep cord away from heat, sharp edges or moving parts. Replace damaged cords immediately. Damaged cords increase the risk of electric shock.

⚠ **WARNING:**
ALL ELECTRICAL CONNECTIONS MUST BE DONE BY A QUALIFIED ELECTRICIAN. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY! ALL ADJUSTMENTS OR REPAIRS MUST BE DONE WITH THE MACHINE DISCONNECTED FROM THE POWER SOURCE. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY!

SAFETY SYMBOLS

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

V	Volts	3n ~	Three-phase alternating current with neutral
A	Amperes		
Hz	Hertz	⎓	Direct current
W	Watts	n_o	No load speed
kW	Kilowatts		Alternating or direct current
µF	Microfarads		Class II construction
L	Litres		Splash-proof construction
kg	Kilograms		Watertight construction
H	Hours		Protective grounding at terminal, Class I tools
N/cm²	Newtons per square centimeter	.../min	Revolutions or reciprocations per minute
Pa	Pascals	Ø	Diameter
Min	Minutes	0	Off position
S	Seconds		Directional arrow
~ or AC	Alternating current		Warning symbol
3~	Three-phase alternating current		Wear your safety glasses

This symbol designates that this tool is listed with U.S. requirements by ETL Testing Laboratories, Inc.
Conforms to UL 62841-1,CSA C22.2#62841-1 UL 62841-3-10, CSA C22.2#62841-3-10

EXTENSION CORD SAFETY

WARNING

Keep the extenson cord clear of the working area.

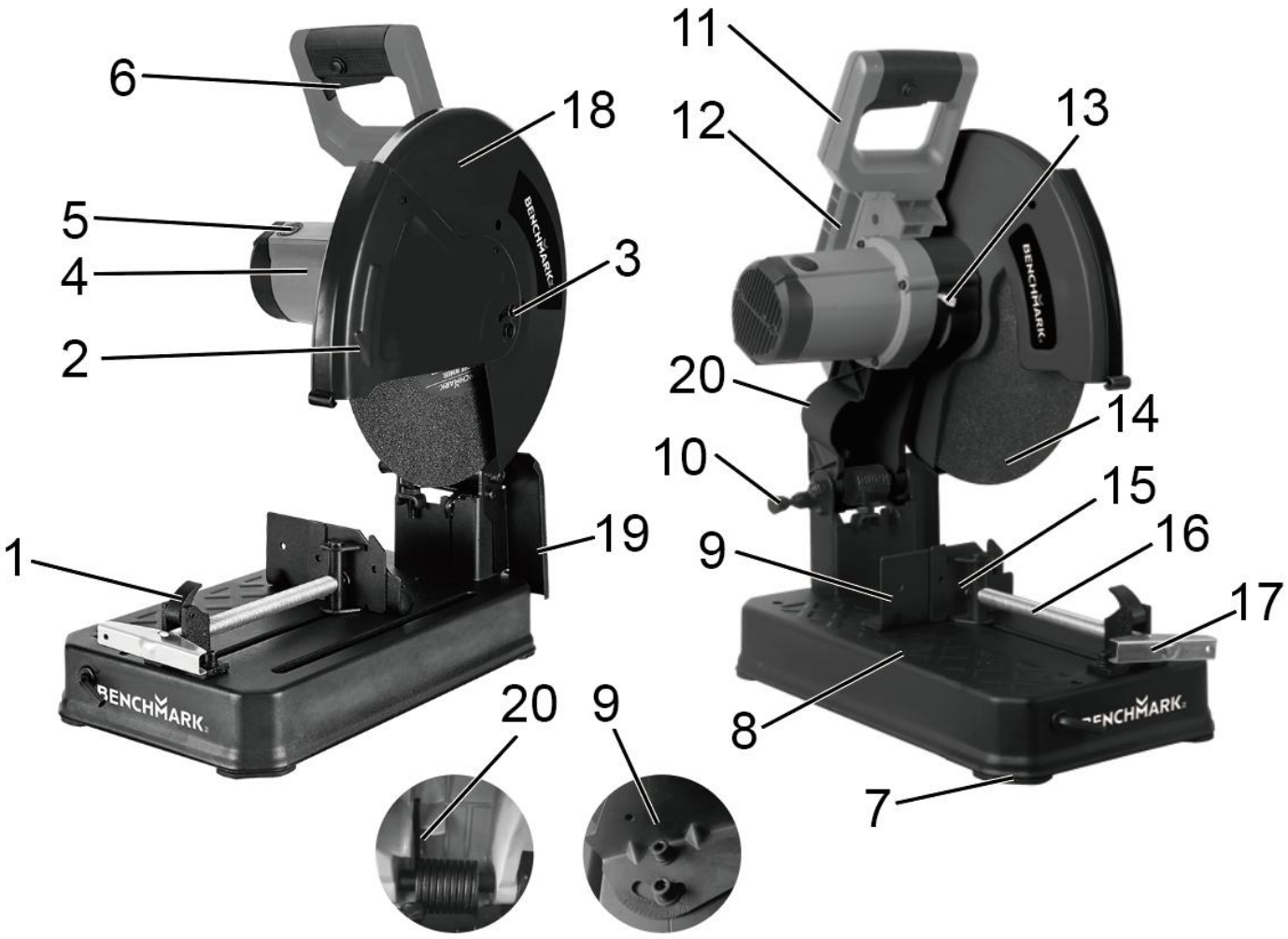
Position the cord so it will not get caught on the workpiece, tools or any other obstructions while you are working with the power tool.

1. Make sure any extension cord used with this tool is in good condition. When using an extension cord, be sure to use one of heavy enough gauge 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.
2. The table below 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.
3. 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.
4. 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 15 A time delayed 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.

MINIMUM GAUGE(AWG)EXTENSION CORDS (120V) USE ONLY

Amperage rating		Total length			
More than	Not more than	25' (7.5 m)	50' (15 m)	100' (30 m)	150' (45 m)
	6	18	16	16	14
6	10	18	16	14	12
10	12	16	16	14	12
12	16	14	12	Not Applicable	

KNOW YOUR CHOP SAW



1. Quick-release lever
2. Lower wheel guard
3. Locking screw
4. Motor
5. Carbon brush cap
6. ON/OFF trigger switch
7. Rubber foot
8. Chop saw base
9. Mitre gauge
10. Swing arm locking pin
11. “D” Handle
12. Carry handle
13. Spindle lock button
14. Abrasive wheel
15. Vice clamp
16. Vice screw
17. Vice handle
18. Wheel guard
19. Spark deflector
20. Depth stop

ASSEMBLY AND OPERATION

SETTING THE DEPTH STOP

NOTE: The maximum cut depth is controlled by adjusting the depth stop.

1. Lift the swing arm upward as far as it will go. (Fig 1)

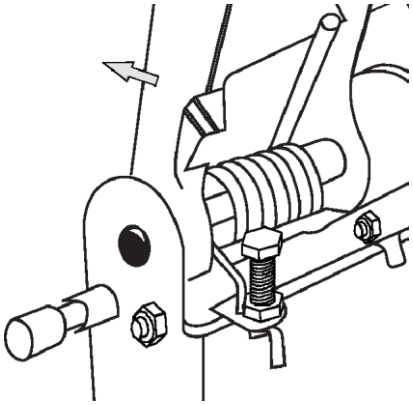


Fig 1

2. Loosen the depth stop lock nut by turning it counterclockwise.
3. Turn the depth stop screw to raise or lower it. Adjust until the cut-off wheel enters the base slot no more than 3/16" (5 mm) when the swing arm is fully lowered and contacts the top of the depth stop screw.
4. When the depth stop screw is correctly set, lock it in place by tightening the lock nut clockwise.

CHECKING THE AUTOMATIC WHEEL GUARD

The automatic wheel guard must be checked to ensure it is working properly.

⚠ WARNING

Always disconnect your Chop Saw from the power source before checking the automatic guard.

1. Lift the wheel guard upward approximately 3" and then release it. (Figure 2) If the wheel guard is functioning correctly, it will freely drop down to its original position.

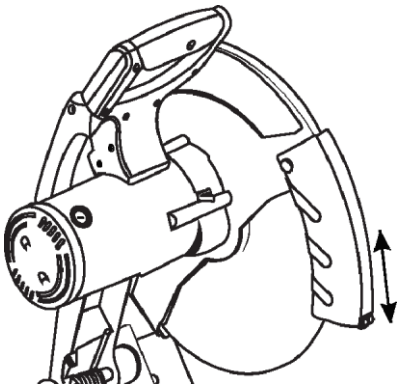


Fig 2

2. Lower the swing arm and cut-off wheel assembly until the lower edge of the wheel guard touches the Chop Saw base. Continue to lower the swing arm and cut-off wheel assembly. The guard should freely rise as the cutting wheel is lowered.

NOTE : The wheel guard should always rise and fall freely when the swing arm is lowered and raised as outlined in #1 and #2. If not, clean any cuttings out from around the wheel guard mechanism. (Fig 3)

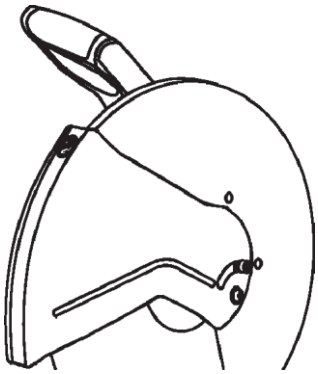


Fig 3

CHECKING THE ARBOR CAP SCREW

It is important to check the arbor cap screw to make sure the cut-off wheel is fully tightened.

⚠ **WARNING** Disconnect your Chop Saw from the power source before checking the arbor cap screw.

1. Lift the swing arm fully upward as far as it will go.
2. Litt the wheel guard fully upward until it will stay in the upright position. (Fig 4)

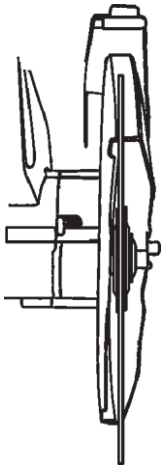


Fig 4

3. Press and hold the spindle lock to the right while rotating the cut-off wheel by hand.
4. When the spindle lock engages the arbor, tighten the arbor cap screw by turning it clockwise using the 8 mm hex key supplied.

NOTE: Only use the hex key supplied to tighten the arbor cap screw. **DO NOT** over tighten the arbor cap screw as you could crack the hub of the Cut-off wheel.

5. When the arbor cap screw is fully tightened, remove the hex key, release the spindle lock and lower the wheel guard.

SETTING THE MITRE GAUGE ANGLE

The mitre gauge can be set for cutting at angles from (90°to 45°) right OR (90 ° to 75 °) left.

1. Open the gauge by turning the gauge adjustment crank 5 or 6 turns counterclockwise. (Fig 5)

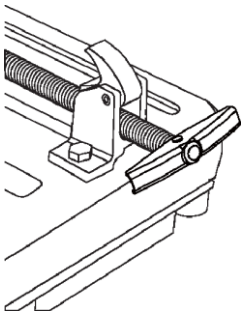


Fig 5

2. Loosen the mitre gauge cap screws by turning them counterclockwise using the 8 mm hex key supplied. (Fig 6)

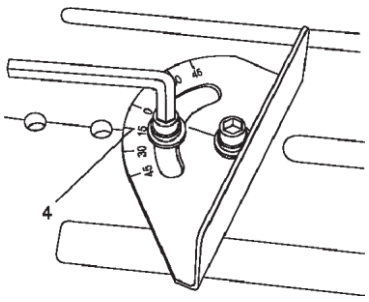


Fig 6

3. Rotate the mitre gauge to the left or right until the desired cutting angle lines up with the alignment mark.
4. Tighten both the mitre gauge cap screws to lock the mitre gauge in place.

NOTE : Always make a test cut on a scrap workpiece to verify the mitre angle setting.

CUTTING UP TO 5” WIDE WORKPIECES

The vise is set up at the factory for cutting workpieces up to 5" in width. This is the preferred set-up. If it is necessary to cut workpieces between 5" and 7" in width, the mitre gauge will have to be relocated on the Chop Saw base.

1. Remove the front and rear mitre gauge cap screws using the 8 mm hex key supplied. (Fig 7)

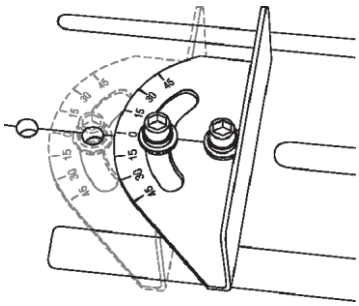


Fig 7

2. Move the mitre gauge back approximately 1-1/2" until the hole and slot in the mitre gauge line up with the next two holes in the Chop Saw base.
3. Reinstall and tighten the mitre gauge cap screws in the two new holes.

NOTE: To cut workpieces between 7" and 9" in width, locate the mitre gauge in the back two holes in the Chop Saw base.

OPERATING THE VISE QUICK RELEASE LEVER

The vise has a quick release feature that allows for making major adjustments much quicker.

1. To operate the quick release lever system, turn the vise crank counterclockwise 2 or 3 turns to loosen the vise jaws. (Fig 8)

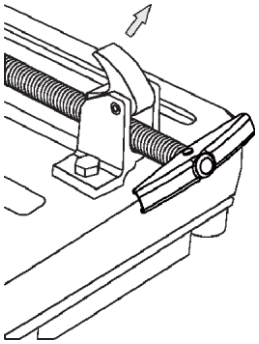


Fig 8

2. Lift upward on the front of the quick release lever to release the vise screw.
3. While holding the quick release lever upward in the released position, pull the vice crank toward you to quickly open the vise.
4. To quickly close the vise, release the quick release lever and push the crank away from you.
5. Use the crank to completely tighten the vise on the workpiece.

⚠ WARNING

Always make sure the workpiece is flat against the Chop Saw base and securely held in the vise before turning the saw ON.

ON/OFF SWITCH

1. To turn the saw on, squeeze the ON/OFF trigger switch until the chop saw starts. During operation, you should continue to squeeze the trigger switch. (Fig 9)

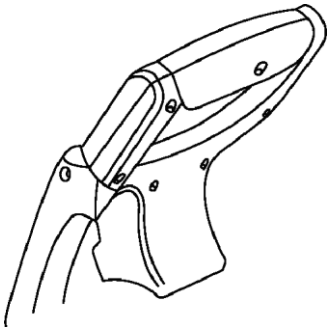


Fig 9

2. To turn the tool OFF, release the ON/OFF trigger switch.

⚠ WARNING

Always make sure the cut-off wheel is NOT touching the workpiece when the switch is being turned ON. Let the motor come to full speed before beginning to cut.

REPLACING THE CUT-OFF WHEEL

The cut-off wheel must be replaced when it has become damaged in any way or it has worn down to a diameter of less than 10".

⚠ **WARNING:** Disconnect your Chop Saw from the power source before attempting to change the cut-off wheel.

1. Lift the swing arm fully upward.
2. Lift the wheel guard fully upward until it exposes the arbor cap screw. (Fig 10)

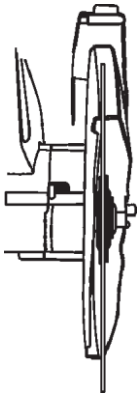


Fig 10

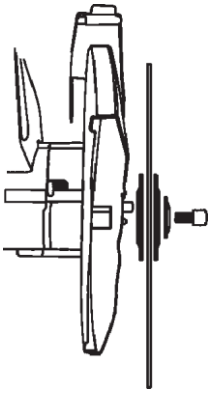


Fig 11

3. Press and hold the spindle lock to the right while rotating the cut-off wheel by hand.
4. When the arbor lock engages the arbor, loosen the arbor cap screw by turning it counterclockwise using the 8 mm hex key supplied.
5. Remove the arbor cap screw, the small outer washer, the large outer washer, the cut-off wheel and large inner washer from the arbor. (Fig 11)
6. Use a clean dry brush or cloth to carefully remove all cuttings from the arbor and the motor housing.
7. Reinstall the washers, new cut-off wheel and arbor cap screw in the same order in which they were removed.

NOTE ：Make sure the large outer surfaces of the large and small washers are facing the cut-off wheel. Make sure the flats of the washer holes slide over the matching flats of the arbor.

8. Engage the spindle lock and tighten the arbor cap screw using the 8 mm hex key supplied.
9. Carefully rotate the cut-off wheel by hand to make sure it is firmly tightened, that it is not damaged and that it does not wobble.

⚠ **WARNING: Reset the depth stop as shown in Fig. 1. The new wheel will be larger and will damage the work surface if the depth stop is not readjusted.**

10. With the depth stop properly set and the wheel guard in the down position, turn the switch ON.

NOTE: If the cut-off wheel wobbles or vibrates, turn the tool off immediately. Recheck to make sure the cut-off wheel is installed correctly and that the wheel is not damaged.

LOCKING THE SWING ARM FOR CARRYING

To safely carry the Chop Saw, it is important to lock the swing arm and carry the tool with the appropriate carrying handle.

1. Lower the swing arm as far as it will go. (Fig 12)

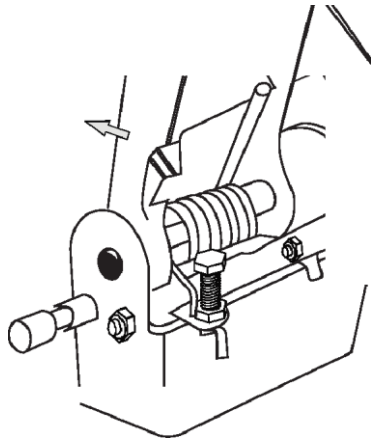


Fig 12

2. Push inward on the swing arm locking pin until it engages the hole in the swing arm.
3. Release the swing arm. It will be locked in the DOWN position if the swing arm locking pin is properly engaged.
4. Lift the Chop Saw using the carry handle.

TIPS FOR CUTTING METAL

1. Lift the swing arm fully upward as far as it will go.
2. Adjust the mitre gauge as required.
3. Firmly lock the metal workpiece to be cut in the vise.
4. Make sure you are wearing your safety goggles, dust mask and hearing protection.
5. Lower the cut-off wheel until it is about 1" above the workpiece.

NOTE: The cut-off wheel MUST NOT be touching the workpiece when the motor switch is turned ON.

6. While holding the Chop Saw handle firmly in your right hand, turn the motor switch ON.
7. Wait for the motor to come up to its full speed. Carefully lower the cut-off wheel until it contacts the workpiece.

NOTE: Many sparks will be generated as soon as the cut-off wheel touches the workpiece.

8. Apply only slight pressure to the Chop Saw handle as it begins to cut through the workpiece.

   DO NOT apply too much pressure to the handle as this will cause the motor to slow down. Doing so will slow the cutting action and damage the motor.

9. When the cut-off wheel has completely cut through the workpiece, release the trigger switch immediately to turn the tool OFF. Wait for the motor to come to a complete stop before lifting the cut-off wheel away from the workpiece.

⚠ WARNING

Never touch the workpiece immediately after a cut is completed. The metal in the cutting area will be red hot and will cause severe burns to your skin.

MAINTENANCE

DEGLAZING THE WHEEL

After making several cuts, the cutting speed of the wheel may be reduced due to glazing on the outer edge of the chop saw cut-off wheel. This glazing is caused by a build-up of molten metal on the cutting surface of the wheel which prevents the abrasive surface from contacting the metal being cut.

If the cutting action slows down, deglaze as follows:

1. Make sure the switch is in the OFF position and let the cut-off wheel cool down for at least 1-2 minutes.
2. Remove the workpiece from the vice and replace it with a scrap workpiece.
3. When the scrap workpiece is firmly fastened in the vice, turn the switch ON.
4. When the chop saw motor reaches full speed, SLOWLY lower the wheel onto the workpiece, only allowing it to make LIGHT CONTACT with the workpiece. Repeat this action 4-5 times.

   NOTE: The light contact with the workpiece will remove the cold glazing and the cut-off wheel will once again begin to cut more aggressively.

REPLACING CARBON MOTOR BRUSHES

The carbon motor brushes will wear down and require replacing. The time intervals between replacements will vary depending upon the type of materials being cut and the hours of use. It is recommended that the brushes be checked after each 10 hours of use. When the length of the carbon brush reaches 1/4" (6.35 mm), the brushes should be replaced.

1. Use a 3/16" (4 mm) slot screwdriver and remove one brush cap. Turn the brush cap counter clockwise to remove it from the motor housing.
2. Pull the spring & brush assembly from the brush holder in the motor housing.
3. Insert the new spring & brush assembly into the motor housing.
4. Compress the spring into the brush holder and thread the brush cap back into the motor housing.
5. Repeat steps 1 to 4 and replace the second carbon brush located on the opposite side of the motor housing

NOTE: To order replacement brushes please call our toll free customer support line 1-866-349-8665.

⚠ WARNING

When servicing, 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.

Keep the air vents cleared of any built up dust to prevent the motor from overheating. Remove accumulated dust and debris regularly using a soft, DRY brush.

⚠ WARNING: Use safety goggles when using an air jet to blow dust out of the Chop Saw.

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

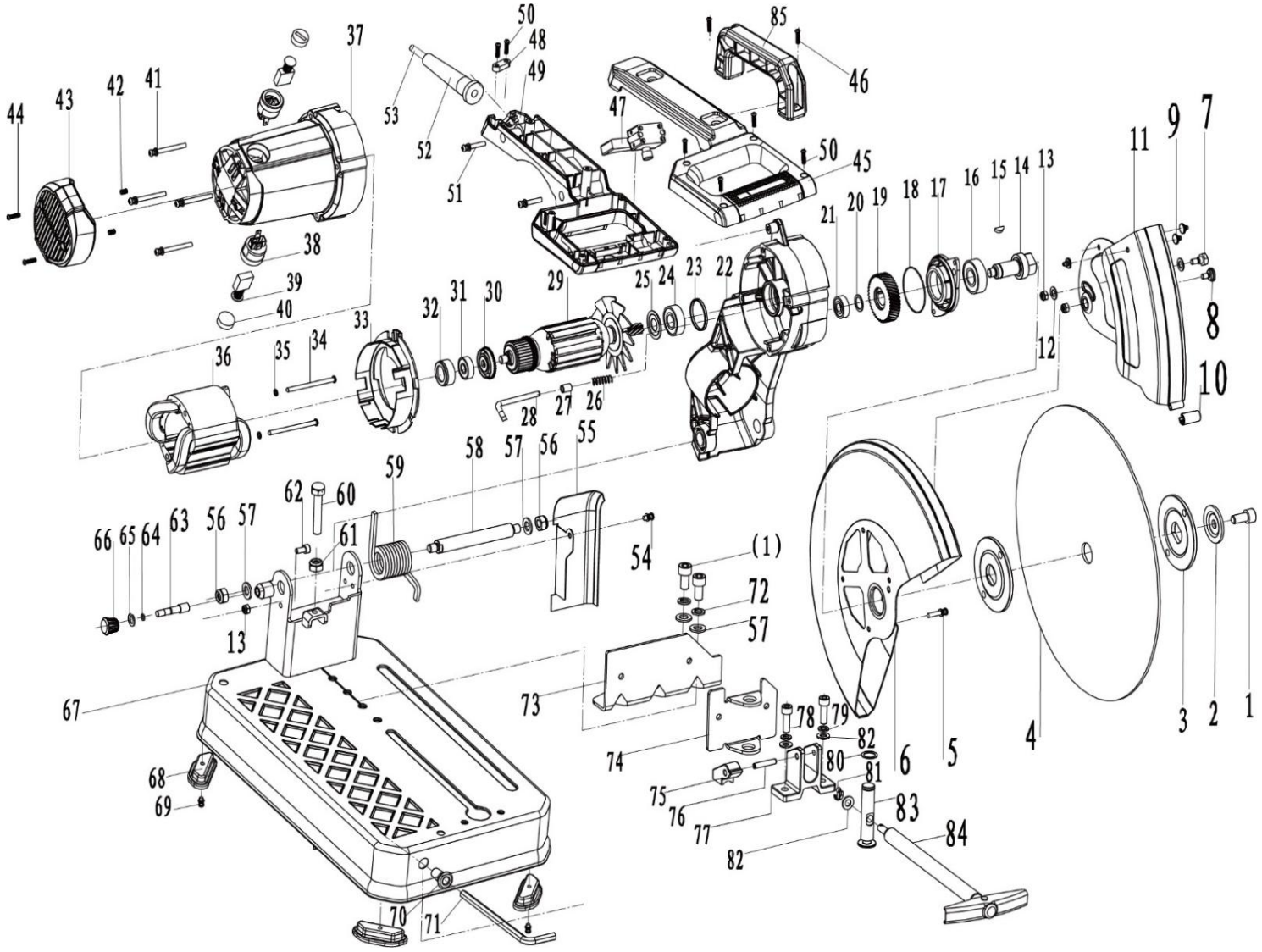
⚠ WARNING: DO NOT attempt to modify tools or create accessories. Any such alteration or modification is misuse and could result in a hazardous condition leading to possible serious injury. It will also void the warranty.

NOTE: 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 it out with an air jet.

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

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 tool. Any attempt to repair or replace electrical parts on this 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.

Key#	Part #	Part Name	Qty
1	1347-100-001	Hexagon socket head cap screws M10X20	3
2	1347-100-002	Small flange Φ45	1
3	1347-100-003	Press plate Φ90	2
4	1347-100-004	Abrasive Cut-off wheel	1
5	1347-100-005	Cross recessed pan head screws M5X25	4
6	1347-100-006	Fixed Guard	1
7	1347-100-007	Hexagonal screw with step M6	1
8	1347-100-008	Cross head screws with step M6	1
9	1347-100-009	Anti-Vibration Pillar	3
10	1347-100-010	Movable Guard protector pillar	1
11	1347-100-011	Movable Guard	1
12	1347-100-012	Paper inserts 8	2
13	1347-100-013	Hexagonal lock screw M6	3
14	1347-100-014	Spindle	1
15	1347-100-015	woodruff key 4X13	1
16	1347-100-016	WT006203RS bearing	1
17	1347-100-017	Front cover	1
18	1347-100-018	0 ring rp52.8Xl.2	1
19	1347-100-019	Large Gear	1
20	1347-100-020	Snap ring 16	1
21	1347-100-021	WT006000Z bearing	1
22	1347-100-022	Gear Box	1
23	1347-100-023	Rectangle ring <p35Xl.5	1
24	1347-100-024	6202DU bearing	1
25	1347-100-025	Anti-dust washer	1
26	1347-100-026	Spring	1
27	1347-100-027	Brake lever positioning sleeve	1
28	1347-100-028	Brake lever	1
29	1347-100-029	Armature	1
30	1347-100-030	Creepage ring	1
31	1347-100-031	629DW bearing	1
32	1347-100-032	bearing sleeve	1
33	1347-100-033	Baffle plate	1
34	1347-100-034	Cross recessed pan head screws ST5X80	2
35	1347-100-035	Spring washer <p 5	2
36	1347-100-036	Stator	1
37	1347-100-037	Plastic motor Housing	1
38	1347-100-038	Carbon brush holder	2
39	1347-100-039	Carbon brush cover	2
40	1347-100-040	Carbon brushes	2
41	1347-100-041	Cross recessed pan head screws M5X55	4

Key#	Part #	Part Name	Qty
42	1347-100-042	Hex M5X8	2
43	1347-100-043	back cover	1
44	1347-100-044	Cross recessed pan head screws ST4X14	2
45	1347-100-045	Upper handle	1
46	1347-100-046	Cross recessed pan head screws ST5X20	2
47	1347-100-047	Switch	1
48	1347-100-048	Cable press plate	1
49	1347-100-049	lower handle	1
50	1347-100-050	Cross recessed pan head screws ST4X16	6
51	1347-100-051	Cross recessed pan head screws M5X30	2
52	1347-100-052	Cable sleeve	1
53	1347-100-053	Cable	1
54	1347-100-054	Cross recessed pan head screws M6X12	1
55	1347-100-055	Spark cover	1
56	1347-100-056	Hexagonal fix screw M10	2
57	1347-100-057	Flat washer 10	4
58	1347-100-058	hinged lever	1
59	1347-100-059	torsional spring	1
60	1347-100-060	Hexagon socket head cap screws M10X45	1
61	1347-100-061	Screw M10	1
62	1347-100-062	Hexagon socket head cap screws M6X12	1
63	1347-100-063	Pin	1
64	1347-100-064	0 ring 5X15	
65	1347-100-065	Snap ring	1
66	1347-100-066	Open ring 6	1
67	1347-100-067	Baseplate	1
68	1347-100-068	Rubber foot	3
69	1347-100-069	Hexagon lock nut M6	4
70	1347-100-070	Allen key holder	1
71	1347-100-071	Hex wrench	1
72	1347-100-072	Spring washer 10	2
73	1347-100-073	Angle plate	1
74	1347-100-074	Movable Jaw	1
75	1347-100-075	Quick release nut	1
76	1347-100-076	Elastic cylindrical pin	1
77	1347-100-077	Rod Support	1
78	1347-100-078	Hexagon socket head cap screws M8X25	2
79	1347-100-079	Spring washer 8	2
80	1347-100-080	Snap ring 16	1
81	1347-100-081	Open Pin	1
82	1347-100-082	Flat washer 8	3
83	1347-100-083	Pin	1
84	1347-100-084	Rod assembly	1
85	1347-100-085	handle	1

WARRANTY

BENCHMARK 14” ABRASIVE CHOP SAW

If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. 3-year warranty for the battery and charger. This warranty does not include expendable parts including but not limited to blades, brushes, belts, light bulbs.

This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Benchmark product is used for commercial or rental purposes, this warranty does not apply.

14” ABRASIVE CHOP SAW

BENCHMARK

1347-100
Made in China

BENCHMARK TOOLS CANADA
ST. JACOBS, ONTARIO N0B 2N0

CUSTOMER SERVICE/TECH SUPPORT
1-866-349-8665

LIMITED 5 YEAR* WARRANTY

* This Benchmark TM product carries a five (5) year LIMITED warranty against defects in workmanship and materials. The charger and batteries carry a three (3) LIMITED warranty.

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Intertek
3151836
R7201

READ ALL INSTRUCTIONS BEFORE FIRST USE. KEEP THIS MANUAL FOR FUTURE REFERENCE. KEEP AWAY FROM CHILDREN.

WEAR CSA APPROVED EYE PROTECTION

WEAR EAR PROTECTION

WEAR A FACE MASK