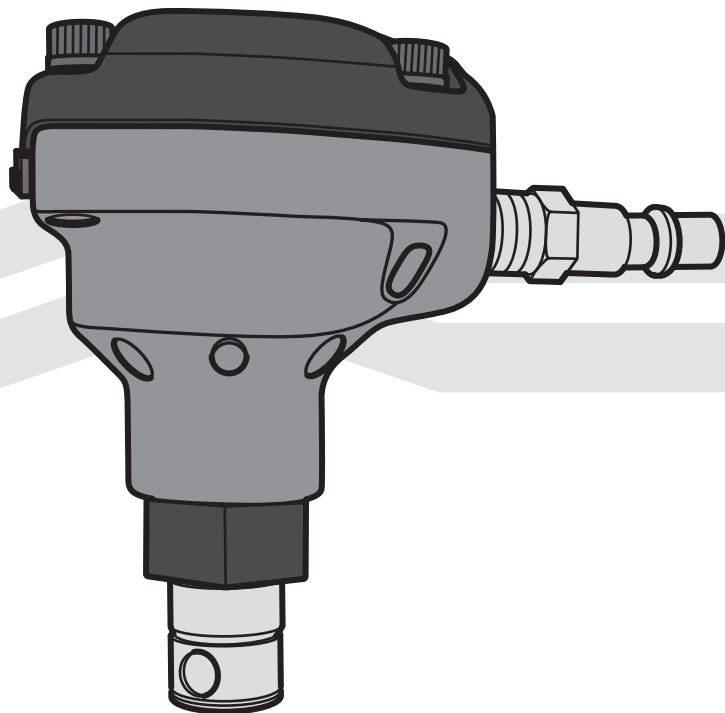


# ***Mastercraft™***



INSTRUCTION MANUAL

## **AIR-POWERED MINI PALM-GRIP NAILER**

058-8987-8

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CAPACITY (QTY.)	1 piece
NAIL LENGTH	3"-3 1/2" (50 – 90 mm)
NAIL SIZE	31/2" (90mm) 14 gauge
RECOMMENDED OPERATING PRESSURE	70 – 100 psi (4.8 – 7 bar)
AIR INLET	1/4" (6.4 mm) 18 NPT
DIMENSIONS	103 x 53 x 103 mm
WEIGHT	13oz (0.37 kg)
AVERAGE AIR CONSUMPTION	0.002CF/cycle @ 90 psi

SCFM: Standard Cubic Feet per Minute (the volumetric flow rate of air corrected to standardized conditions of temperature and pressure).

NPT: National Pipe Thread.

#### **Environmental Responsibilities**

Please recycle unwanted materials instead of disposing of them as waste. All tools, hoses and packaging should be sorted, taken to the local recycling centre and disposed of in an environmentally safe way.

## Safety guidelines

This manual contains information that relates to PROTECTING PERSONAL SAFETY and PREVENTING EQUIPMENT PROBLEMS. It is very important to read this manual carefully and understand it thoroughly before using the product. The symbols listed below are used to indicate this information.



### **DANGER!**

Potential hazard that will result in serious injury or loss of life.



### **WARNING!**

Potential hazard that could result in serious injury or loss of life.



### **CAUTION!**

Potential hazard that may result in moderate injury or damage to equipment.

**Note-** The word “Note” is used to inform the reader of something he/she needs to know about the tool.

## **PERSONAL SAFETY**

These precautions are intended for the personal safety of the user and others working with the user. Please take time to read and understand them.

## SAFETY GUIDELINES

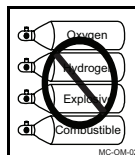
**DANGER!**

Potential hazard that will result in serious injury or loss of life.

- **Keep children away** from the work area. Do not allow children to handle power tools.
- **Do not use this tool in the presence of flammable liquids or gases.** Sparks that are created during use may ignite gases.
- **Do not point the tool towards yourself or other people with the nail loaded.**
- **Do not keep the tool pressed** while loading the nail.
- **Do not disconnect or reconnect the air hose with the tool pressed or with a nail in the nail guide.** The Air-powered Mini Palm-grip Nailer may fire when it is reconnected to the air supply.



- **Do not use oxygen or any other combustible or bottled gas** to power air-powered tools. Failure to observe this warning can cause explosion and serious personal injury or death. Use only compressed air to power air-powered tools. Failure to comply will result in serious injury or loss of life.



- **Risk of electric shock:** Do not expose a compressor to rain. Store it indoors. Disconnect the compressor from the power source before servicing. Compressor must be grounded. Do not use grounding adaptors.



- **Risk of personal injury:** Do not direct compressed air from the air hose towards the user or other persons.



- **Risk for breathing:** Never directly inhale the air produced by the compressor.



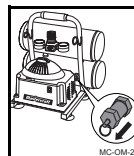
- **Risk of bursting:** Do not adjust the pressure switch or safety valve for any reason. They have been preset at the factory for this compressor's maximum pressure. Tampering with the pressure switch or the safety valve may cause personal injury or property damage.



- **Risk of burns:** The pump and the manifold generate high temperatures. In order to avoid burns or other injuries, do not touch the pump, the manifold, or the transfer tube while the compressor is running. Allow the parts to cool down before handling or servicing. Keep children away from the compressor at all times.



- **Risk of bursting:** Make sure the regulator is adjusted so that the compressor outlet pressure is set lower than the maximum operating pressure of the tool. Before starting the compressor, pull the ring on the safety valve to make sure the valve moves freely. Drain water from tank after each use. Do not weld or repair tank. Relieve all pressure in the hose before removing or attaching accessories.



**WARNING!**

Potential hazard that could result in serious injury or loss of life.

- **Do not allow inexperienced or untrained individuals to operate** an Air-powered Mini Palm-grip Nailer or any other air-powered tool.
- **Keep hands and other parts of the body away from the nail guide during use.** Keep hands, feet, and all other parts of the body at least 8" (20 cm) away from the firing head. Objects in the workpiece can cause serious injury if they cause the nails to be deflected or to be driven away from the point of entry.
- **Do not connect the tool to a compressed air source with a pressure output that is higher than 120 psi.**
- **Do not drive fasteners on top of a nailed fastener.** The fastener may ricochet, causing serious personal injury.
- **Do not drive fastener on scaffoldings, ladders,** or such similar construction, not working on airtight case, and vehicles.
- **Use only genuine parts and accessories** recommended by the manufacturer.
- **Use only nails of the proper size and gauge,** as specified in this manual (*see section "Technical specifications"*). Failure to comply could lead to serious injury or loss of life.

**CAUTION!**

Potential hazard that may result in moderate injury or damage to equipment.

- **Carry the tool by the handle only, keeping fingers away from the trigger.** Do not carry the tool by the hose, magazine, or any other parts.
- **Keep proper footing at all times in order to ensure correct balance.**
- **Do not drive nails close to the edge of the workpiece.** The workpiece may split, which could allow the nail to fly free or ricochet and cause serious personal injury.
- Do not use a tool that is leaking air, that has missing or damaged parts, or that requires repairs. **Verify that all screws are securely tightened.**
- For optimal safety and tool performance, **inspect the tool daily** in order to ensure free movement of the trigger, safety mechanisms, and springs.
- **Keep the work area clean.** A cluttered or dirty workbench may lead to an accident. Floors should be kept clear.
- **This tool is not a toy. Use it with caution.**
- **Handling and storage of oil:** Use with adequate ventilation. Avoid contact of oil with eyes, skin, and clothing. Avoid breathing spray or mist. Store in a tightly closed container in a cool, dry, well-ventilated area free from incompatible substances.
- **Tripping hazard:** The air hose may become a tripping hazard when it is placed in the work area. Use care when walking in the work area.



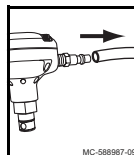
# 9 SAFETY GUIDELINES



## CAUTION!

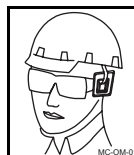
Potential hazard that may result in moderate injury or damage to equipment.

- **Disconnect the tool from the air supply and turn off the compressor** before performing any maintenance or changing accessories, when the tool is not in use, when it is being handed to another person, and when it is left unattended. Failure to comply may result in moderate injury.

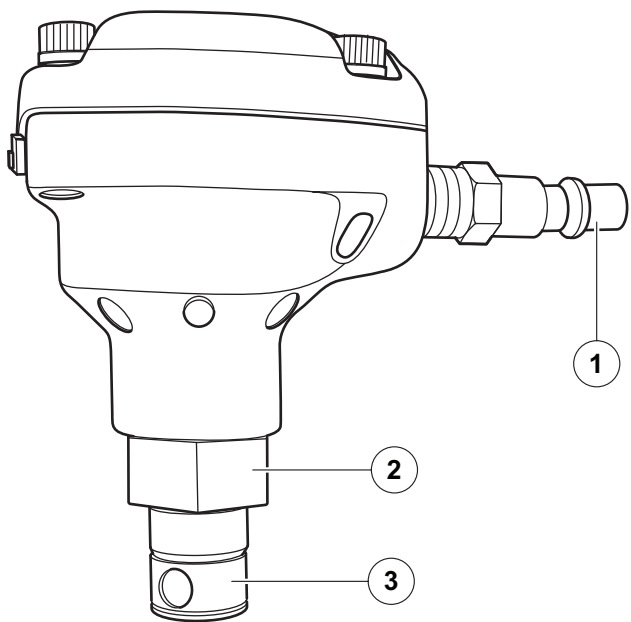


- **Use safety goggles and ear protection:**  
Wear safety glasses with side shields when operating the tool and verify that others in the work area are also wearing safety glasses. Safety glasses must conform to American National Standards Institute (ANSI Z87.1) requirements and must provide protection from flying particles from the front and the sides.

Air-powered tools are loud and the sound can cause hearing damage. Always wear ear protection to help prevent hearing damage and loss. Failure to comply may result in moderate injury.



**Note:** Recycle unwanted materials rather than disposing of them as waste. Sort the tools, hoses, and packaging in specific categories and take to the local recycling centre or dispose of in an environmentally safe way.



MC-588987-01

No.	Description	No.	Description
1	Air inlet plug	3	Turn buckle
2	Magnet		

## Compatible compressors

### **GUIDELINES FOR PROPER USE AND OPERATION**

Be sure to use a proper air compressor with Mastercraft® air-powered tools. The compressor should be able to supply a minimal air delivery of 4.0 SCFM @ 90 psi to ensure the compressor can run continuously with the Mastercraft Air-powered Mini Palm-grip Nailer.

### **General use**

This Mastercraft® Air-powered Mini Palm-grip Nailer is an air-powered tool with a new and advanced design, compact structure, and superior technology which enables the tool to drive nails into the workpiece without a trigger. The tool is dexterous, safe, and reliable to operate. The tool is ideal for nailing at tight corners, toe-nailing, joist hanger installations, etc.

Air Compressor Size & Power	1 1/2 – 2 HP	2 1/2 HP	3 HP and more
4 – 5 Gallons	Light-duty and intermittent use	Light-duty and intermittent use	Light-duty and intermittent use
8 – 11 Gallons	Light-duty and intermittent use	Heavy-duty and continuous use	Heavy-duty and continuous use
15 Gallons and more	Medium-duty and intermittent use	Heavy-duty and continuous use	Heavy-duty and continuous use

Wood density	Nail size	Compressor air pressure
$>0.6\text{g/cm}^3$	$<21/2''$ (63 mm) brad nails	90 psi
	$\geq 21/2''$ (63 mm) brad nails	100 psi
$\leq 0.6\text{g/cm}^3$	$<21/2''$ (63 mm) brad nails	80 psi
	$\geq 21/2''$ (63 mm) brad nails	90 psi

## Air system

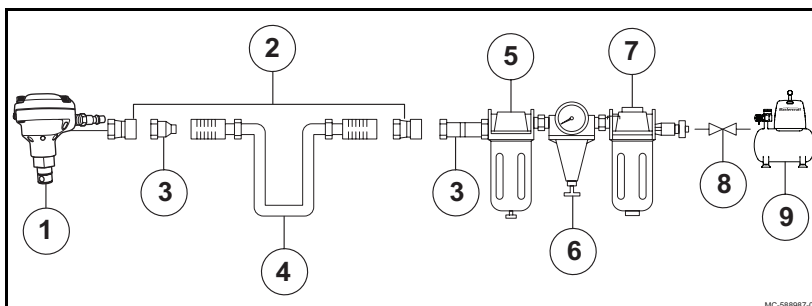
- Always use clean, dry, regulated, compressed air at 70 to 100 psi (5 to 7 bar).
- Do not exceed the maximum or minimum pressures. Operating the tool at the wrong pressure (too low or too high) will cause excessive noise or rapid wear.



### WARNING!

Potential hazard that could result in serious injury or loss of life.

- Keep hands and other parts of the body away from the tool's discharge and working areas when connecting the air supply. Failure to comply could lead to serious injury or loss of life.



No.	Description	No.	Description
1	Mastercraft® Air-powered Mini Palm-grip Nailer	6	Regulator (0 to 8.5 bar)
2	Quick connector	7	Filter
3	Quick coupler	8	Cut-off valve
4	Air hose	9	Air compressor
5	Lubricator		

**Read this Instruction Manual carefully before using the Air-powered Mini Palm-grip Nailer.**

- Read and follow all the safety instructions at the beginning of this manual. Inspect the Air-powered Mini Palm-grip Nailer prior to each use in order to
  - ensure that the proper power source is being used.
  - verify that the tool is in proper working order.



### **WARNING!**

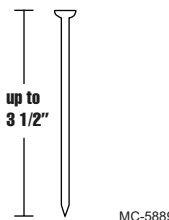
**Potential hazard that could result in serious injury or loss of life.**

- Do not use the tool if it is not in proper working order.
  - Do not use oxygen or any other combustible or bottled gas to power this tool.
  - Do not use this tool in the presence of any flammable liquids or gases.
  - Keep hands and other parts of the body away from the firing head during use.
  - Do not point the tool towards the operator or other people.
  - Do not attempt to clear a jammed nail when the air hose is connected.
  - Do not drive a nail on top of an existing nail. Failure to comply could lead to serious injury or loss of life.
- 
- It is recommended that a filter-regulator-lubricator be used and be located as close to the tool as possible.
  - If a filter-regulator-lubricator is not installed, place up to 6 drops of compressor oil into the air inlet plug before each use.
  - If a filter-regulator-lubricator is installed, keep the air filter clean. A dirty filter will reduce the air pressure to the tool, which will cause a reduction in power, efficiency, and general performance.
  - For optimal performance, install a quick connector to the tool and a quick coupler on the hose, if applicable.
  - Verify that all of the connections in the air supply system are sealed in order to prevent air leakage.

This Mastercraft® Mini Palm-grip nailer drives 90 mm (3 1/2").

### ACCEPTABLE FASTENERS

Nails (14 gauge)



### WARNING!

Potential hazard that could result in serious injury or loss of life.

- The use of any other types of nails will cause the nailer to jam and could lead to serious injury or loss of life.

This nailer can be used with a variety of shank types (e.g., ring, smooth, spiral) and a variety of coatings or nail compositions (e.g., Electro, mechanical, hot-dipped galvanized or stainless steel, etc.).

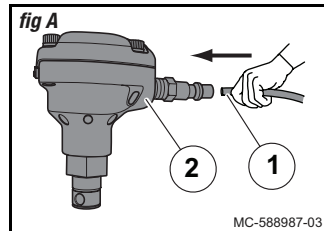
## Loading nails

**DANGER!**

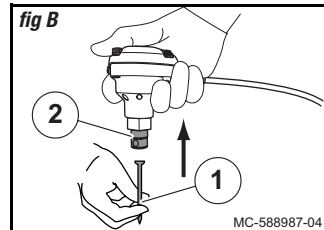
Potential hazard that will result in serious injury or loss of life.

- Do not point the tool towards the operator or other people while changing the nails or after loading the nail.
- Do not hold the tool with the nail guide pressed while changing nails. Failure to comply will lead to serious injury or loss of life.

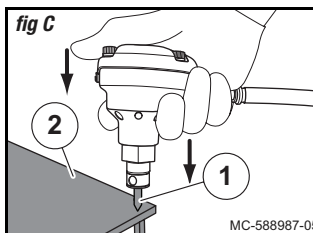
1. Plug in compressor, turn it on, set the pressure regulator to 40 psi, attach one end of the air hose to the compressor and the other end of the air hose (1) to the tool (2) (*fig A*). → page 11 (wood density chart)



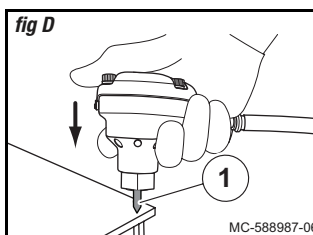
2. Grip the base of the tool in one hand. Hold a nail by the shaft (1), and place the flat head into the nail guide (2). The nail will be held in place by the magnet (*fig B*).



3. Place the pointed end of the nail (1) on the workpiece (2). Keep your free hand away from the tool and the nail (*fig C*).



4. Press the tool straight down. This will trigger the tool and cause it to hammer the nail. Continue pressing down until the nail is driven all the way in (*fig D*).



### CAUTION!

Potential hazard that may result in moderate injury or damage to equipment.

- Add some drops of pneumatic tool oil into the air inlet for lubrication before use. Failure to comply may result in moderate injury or damage to equipment.



### WARNING!

Potential hazard that could result in serious injury or loss of life.

- Do not operate the tool if the nails are not loaded, as doing so may damage the tool.
- Load the correct type of nails only. Failure to comply could lead to serious injury or loss of life.



## Cold weather operation

When operating any air-powered tool below freezing temperature. Do not use below 14°F(-10°C) freezing temperature.

- Verify the compressor tanks have been properly drained prior to use.
- Keep tools as warm as possible using any safe, convenient method.
- Place up to 6 drops of pneumatic tool oil into the tool's air inlet.
- Adjust the air pressure to 80 psi or lower.
- Actuate the tool 5 to 6 times into a scrap wooden piece in order to lubricate the O-rings.
- Adjust the air pressure to the operating level (do not exceed 120 psi) and use the tool normally.
- Relubricate the tool, as described in the maintenance section.
- Drain the compressor tanks at least once per day.

Do not store tools in a cold weather environment to prevent frost or ice formation on the tools operating valves and mechanisms that could cause tool failure. Store in a dry place.

## Maintenance



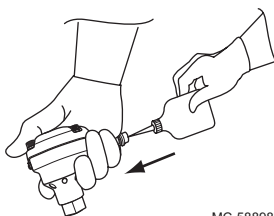
### DANGER!

Potential hazard that will result in serious injury or loss of life.

- Disconnect the tool from the air compressor before performing maintenance/ service, adjusting, clearing jams, reloading, and when it is not in use.
- Repairs must be performed by a qualified service technician only. Failure to comply will lead to serious injury or loss of life.

MAINTENANCE REQUIRED	DESCRIPTION	TOOLS OR MATERIALS REQUIRED	MAXIMUM SERVICE INTERVAL		
			Each Use or every 2 Hrs.	Monthly	As Needed
General inspection – free movement	Trigger, spring, safety mechanism	None	X		
In-depth inspection	Worn or broken parts			X	X
Replace worn or broken parts					X
Lubrication	See below	Pneumatic tool oil	X		

- Lubrication: If the Air-powered Mini Palm-grip Nailer and the compressor are not equipped with an in-line lubrication system, place 2 to 6 drops of pneumatic tool oil into the air inlet before each work day or after every 2 hours of continuous use, depending on the characteristics of the workpiece and type of nails used.



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- Air-operated tools must be inspected periodically and worn or broken parts must be replaced in order to keep tools operating safely and efficiently.
- Inspect and replace worn or damaged O-rings, seals, etc. Tighten all screws and caps frequently in order to help prevent personal injury.
- Inspect the spring and safety mechanism for free movement on a regular basis in order to ensure that the safety system is fully functional. Verify that no parts are loose or missing and no parts are sticking or jammed.
- Keep the nail guide clean and free of any dirt or abrasive particles.

**Note:** When temperatures are below freezing, maintain the tools in a warm condition using any safe, convenient method.

## Troubleshooting

The following chart lists common operating system issues and solutions. Please read it carefully and follow all instructions closely.



### **DANGER!**

**Potential hazard that will result in serious injury or loss of life.**

- If any of the following symptoms appear while the tool is in use, turn it off and disconnect it from the air supply immediately. Failure to comply will lead to serious injury or loss of life.
- Disconnect the tool from the air supply before making any adjustments.
- When replacing O-rings or cylinder, lubricate the tool with pneumatic tool oil before assembly.
- Repairs must be performed by a qualified service technician only.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Air leakage.	1. O-rings are worn or damaged. 2. Screws are loose.	1. Inspect and replace the O-rings. 2. Tighten the screws.
Attack strength is not enough.	1. Air pressure is not in specified range. 2. The O-ring beside slip set is worn.	1. Adjust the air pressure to specified range. 2. Replace the O-ring.
The tool does not drive out the nails when connected to air supply.	1. Insufficient air supply. 2. O-rings are worn or damaged.	1. Adjust the air pressure. 2. Inspect and replace the O-rings.

**Note:** For further repair information, please call 1-800-689-9928.

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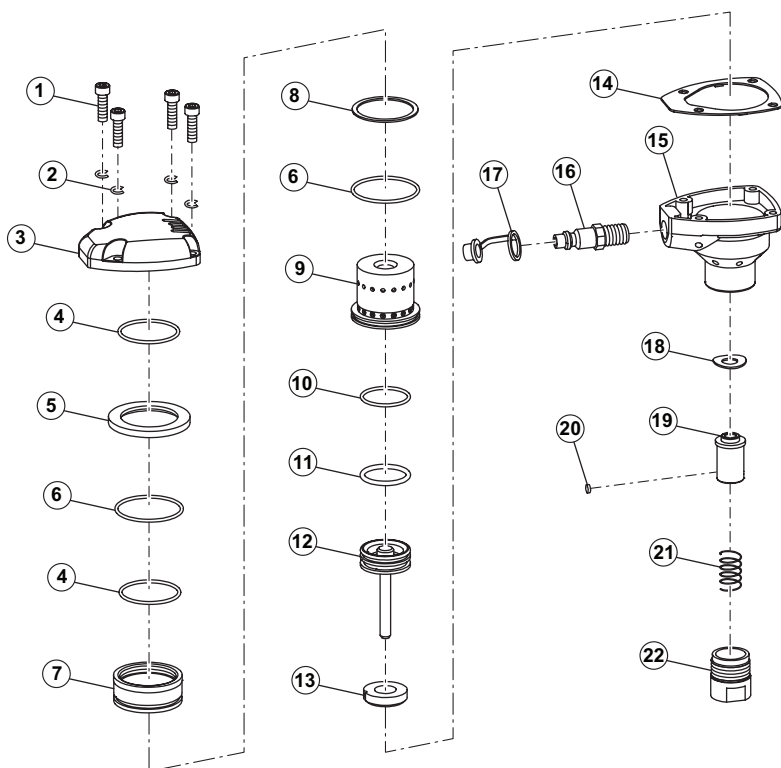
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MC-588987-07

No.	Description	Qty.	No.	Description	Qty.
1	Bolt M5 X 20	4	12	Piston	1
2	Washer	4	13	Bumper	1
3	Cylinder cover	1	14	Cylinder cover washer	1
4	O-ring 33.6 X 1.8	2	15	Gun body	1
5	Rubber gasket	1	16	Air inlet plug	1
6	O-ring 37.5 X 1.8	2	17	Air plug cover	1
7	Slip set	1	18	Spring washer	1
8	Sealing washer	1	19	Stop collar	1
9	Cylinder	1	20	Magnet	1
10	O-ring 23.5 X 2	1	21	Spring	1
11	O-ring 25 X 2.65	1	22	Turn buckle	1

If any parts are missing or damaged, or if you have any questions, please call 1-800-689-9928.

## Mastercraft® limited warranty



This Mastercraft product is guaranteed for a period of 3 years from the date of original retail purchase against defects in workmanship and materials, except for the following component.

Component A: Accessories, which are guaranteed for a period of 1-year from the date of original retail purchase against defects in workmanship and materials.

Subject to the conditions and limitations described below, this product, if returned to us with proof of purchase within the stated warranty period and if covered under this warranty, will be repaired or replaced (with the same model, or one of equal value or specification), at our option. We will bear the cost of any repair or replacement and any costs of labour relating thereto.

**WARRANTY**

### These warranties are subject to the following conditions and limitations:

- a. A bill of sale verifying the purchase and purchase date must be provided.
- b. This warranty will not apply to any product or part thereof which is worn or broken or which has become inoperative due to abuse, misuse, accidental damage, neglect or lack of proper installation, operation or maintenance (as outlined in the applicable owner's manual or operating instructions) or which is being used for industrial, professional, commercial or rental purposes.
- c. This warranty will not apply to normal wear and tear or to expendable parts or accessories that may be supplied with the product that are expected to become inoperative or unusable after a seasonable period of use.
- d. This warranty will not apply to routine maintenance and consumable items such as, but not limited to, fuel, lubricants, vacuum bags, blades, belts, sandpaper, bits, fluids, tune-ups or adjustments.
- e. This warranty will not apply where damage is caused by repairs made or attempted by others (i.e. persons not authorized by the manufacturer).
- f. This warranty will not apply to any product that was sold to the original purchaser as a reconditioned or refurbished product (unless otherwise specified in writing).



- g. This warranty will not apply to any product or part thereof if any part from another manufacturer is installed therein or any repairs or alterations have been made or attempted by unauthorized persons.
- h. This warranty will not apply to normal deterioration of the exterior finish, such as, but not limited to, scratches, dents, paint chips, or to any corrosion or discolouring by heat, or abrasives and chemical cleaners.
- i. This warranty will not apply to component parts sold by and identified as the product of another company, which shall be covered under the product manufacturer's warranty, if any.

### **Additional limitations**

This warranty applies only to the original purchaser and may not be transferred. Neither the retailer nor the manufacturer shall be liable for any other expense, loss or damage, including, without limitation, any indirect, incidental, consequential, or exemplary damages arising in connection with the sale, use, or inability to use this product.

### **Notice to consumer**

This warranty gives you specific legal rights, and you may have other rights, which may vary from province to province. The provisions contained in this warranty are not intended to limit, modify, take away from, disclaim, or exclude any statutory warranties set forth in any applicable provincial or federal legislation.