MAXIMUM

Impact Wrench



Model no. 058-1968-6

IMPORTANT:

Please read this manual carefully before using this product, and save it for reference.

INSTRUCTION MANUAL

MAXIMUM*

TABLE OF CONTENTS	
TECHNICAL SPECIFICATIONS	3
SAFETY GUIDELINES	4
KEY PARTS DIAGRAM	9
TECHNICAL INFORMATION	10
OPERATING INSTRUCTIONS	13
MAINTENANCE	15
TROUBLESHOOTING	17
EXPLODED VIEW	19
PARTS LIST	20
WARRANTY	21

NOTE: If any parts are missing or damaged, or if you have any questions, please call our toll-free helpline at 1-888-670-6682.



SAVE THESE INSTRUCTIONS

This manual contains important safety and operating instructions. Read all instructions and follow them with use of this product.

TECHNICAL SPECIFICATIONS

SQUARE DRIVE	1/2"
SPEED (NO LOAD)	7000 RPM
MAXIMUM TORQUE	1000 ft-lb
CFM REQUIREMENT	3.7 CFM @ 90 PSI
WORKING PRESSURE	90 PSI
AIR INLET	1/4"-18 NPT
AIR HOSE REQUIRED	3/8" (9.5 mm)
WEIGHT	4 lb 6 oz (2.0 kg)

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

NPT: National Pipe Thread.

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 injury or damage to equipment.

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.

NOTE: The word "Note" is used to inform the reader of something he/she needs to know about the tool.

SAFETY GUIDELINES



• 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 the air-powered tools. Use a minimum of 25' (7.6 m) of hose to connect the tool to the compressor. Failure to comply will result in serious injury or loss of life.



• 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 that 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.





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



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.
- Keep air hose away from heat, oil, and sharp edges.
 Check air hose for wear before each use and ensure that all connections are proper.
- Always ensure that the workpiece is firmly secured leaving both hands free to control the tool.
- Always ensure that the tool has stopped before putting it down after use, for safety purpose and to prevent possible damage to the tool.
- Keep proper footing at all times in order to ensure correct balance.



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



 Risk of inhalation. Never inhale the air produced by a compressor. Failure to comply will result in serious injury or loss of life.



 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.



WARNING!

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

- Do not allow inexperienced or untrained individuals to operate the Impact Wrench.
- Always ensure that the accessories such as impact sockets are specially designed for use with the tool. Also ensure they are secured and correctly fastened before connecting the tool to the air supply.
- Do not use the Impact Wrench for any task other than that which it is designed to perform.
- Do not use the Impact Wrench unless you have been instructed on its use. Only a qualified person should use the tool.
- Pull the pressure safety valve ring of the compressor every day in order to ensure that the valve is functioning properly.
- Locate the compressor in a well-ventilated area for cooling, and a minimum of 12" (31 cm) away from the nearest wall.
- Protect the air hose and the power cord from damage and puncture. Inspect them for weak or worn spots every week, and replace them if necessary.

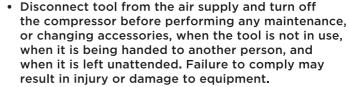
SAFETY GUIDELINES

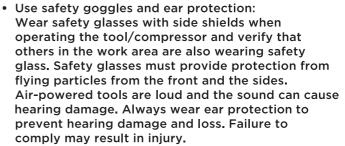
- Always ensure that the tool has stopped before connecting to the air supply.
- Do not wear watches, rings, bracelets, or loose clothing when using any air tool.
- Do not overload the tool. Allow the tool to operate at its optimum speed for maximum efficiency.
- Do not use a tool that is leaking air, with 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.
- Always keep your air tool clean and lubricated. Daily lubrication is essential to avoid internal corrosion and possible failures.
- Ensure that the floor is not slippery and wear non-slip shoes. Floors should be kept clean and clear.
- Always follow all workshop safety rules, regulations, and conditions when using the Impact Wrench.
- Do not carry the tool by the air hose.
- Do not use the tool near or below freezing temperatures, as doing so may cause tool failure.
- Do not store the tool in a freezing environment to prevent ice formation on the operating valves of the tool, as doing so may cause tool failure.
- 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.
- Always wear hearing protection when using an air compressor. Failure to do so may result in hearing loss.
- Do not carry the compressor while it is running.
- Do not operate the compressor if it is not in a stable position.
- Do not operate the compressor on a rooftop or in an elevated position that could allow the unit to fall or be tipped over.



CAUTION!

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











NOTE: Recycle the 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 them in an environmentally safe way.

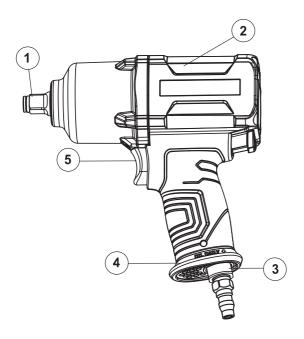


CAUTION

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

KEY PARTS DIAGRAM

No.	Description	No.	Description
1	Square drive	4	Air deflector
2	Wrench body	5	Trigger
3	Air inlet plug		



General use

This MAXIMUM™ Impact Wrench features a twin-hammer mechanism for higher torque, an adjustable (3 position) torque regulator, and variable speed adjustment. The tool has a front exhaust. The tool is mainly used for removing and installing nuts and bolts and automotive lug nuts on tires, and for general assembly work. The sheer power and performance of the tool enables the operator to tackle the toughest jobs with ease. The tool is durable and economical to use.

Compatible compressor and air tool

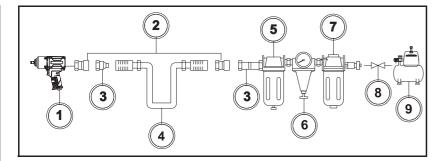
GUIDELINES FOR PROPER USE AND OPERATION

Always ensure that a suitable air compressor is used with this MAXIMUM™ Impact Wrench. The compressor should be able to supply a minimal air delivery of 5 CFM @ 90 PSI to ensure the compressor can run continuously with the MAXIMUM™ Impact Wrench. Using a tool or combinations of tools that together or separately require more than compressor capacity will reduce performance and could void the guarantee/warranty of compressor or tool.

Air Compressor Size and Power	2 HP	2 1/2 HP	3+ HP
5-6 Gallons	Light-duty and intermittent use	Light-duty and intermittent use	Medium-duty and intermittent use
8-11 Gallons	Light-duty and intermittent use	Medium-duty and intermittent use	
15+ Gallons	Medium-duty and intermittent use		Heavy-duty and continuous use

INFORMATION

TECHNICAL



No.	Description
1	MAXIMUM™ Impact Wrench
2	Quick connector
3	Quick coupler
4	Air hose
5	Lubricator

No.	Description
6	Regulator 0 –123 PSI (0 –8.5 bar)
7	Filter
8	Cut-off valve
9	Air compressor

Air system

- Always use clean, dry, regulated, compressed air at the recommended pressure (see section "Technical Specifications").
- Do not exceed the maximum and minimum pressures. Operating the tool at the wrong pressure (too low or too high) could cause personal injury, excessive noise, or rapid wear.

<u></u> ♠

WARNING!

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

- Do not use if the tool is not in proper working order.
- Do not use oxygen or any other combustible or bottled gas to power the tool.
- Do not use this tool in the presence of any flammable liquids or gases.
- Always keep the hoses away from heat, oil, and sharp edges. Check hoses for wear and ensure that all connections are tightened.

- It is recommended that an automatic in-line filter-regulator-lubricator be used and be located as close to the tool as possible. This increases tool life and keeps the tool in good working order.
- Regularly check the in-line lubricator and fill it with lubricating oil.
- If a filter-regulator-lubricator is not installed, place up to 6 drops of lubricating oil into the air inlet plug before each use and for every 2 hours of 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 leads to power reduction, less efficiency, and poor performance of the tool.
- For proper adjustment of the in-line lubricator, place a sheet of paper next to the exhaust ports and hold the throttle open for approximately 30 seconds. The lubricator is properly set when a light stain of oil collects on the paper. Excessive amounts of oil should be avoided.
- 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 and free from air leakage.

AIR TOOLS

Read this Instruction Manual carefully before using the tool.

- Read and follow all the safety instructions at the beginning of this manual.
 Inspect the Impact Wrench 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.
- Always use impact sockets specifically designed for this Impact Wrench.
- Ensure that air is supplied at regulated pressure and the air flow is maintained as per specifications.
- Drain the compressor tank daily. Water in the air line will damage the impact wrench.
- · Clean the air inlet filter weekly.
- Increase the line pressure to compensate for an unusually long air hose longer than 26' 3" (8 m). The minimum hose diameter (I.D.) should be 1/4" (6.4 mm) and the fittings must have the same inner dimensions.



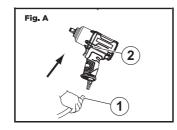
WARNING!

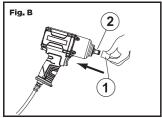
Potential hazard that could result in serious injury or loss of life.

 Keep hands and other parts of the body away from the tool's discharge and working areas when connecting it to the air supply. **OPERATING INSTRUCTIONS**

OPERATION

1. Plug in compressor, turn it on, set the pressure regulator to 90 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).





- 2. Attach the socket (1) of required size to the drive head (2) of the tool (Fig. B).
- 3. Place the socket over the nut to be removed or installed.

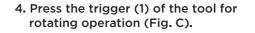
NOTE: Use only the impact sockets that are specifically designed for use with this Impact Wrench.

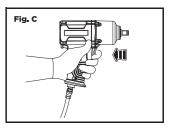


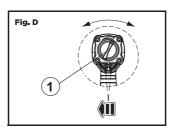
WARNING!

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

 Carefully read all instructions in this manual and understand them thoroughly before using the Impact Wrench. Failure to comply could result in serious injury or loss of life.







5. Adjust the regulator knob (1) at the rear end of the tool to control the speed of the air flow and to adjust the direction of rotation (forward and reverse) (Fig. D).

 Verify that the air supply is clean and that air pressure does not exceed 90 PSI (6.3 bar) while operating the Impact Wrench.



WARNING!

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

- Keep children away from the tools and work areas.
- Do not apply additional force to the Impact Wrench in order to remove a nut.
- Do not allow the Impact Wrench to run free for an extended period of time. Doing so will shorten the life of the impact wrench. Failure to comply could lead to serious injury or loss of life.

MAINTENANCE

Storage

- When the tool is not in use, disconnect it from the air supply, clean, and store it in a safe, dry, childproof location.
- When the tool is stored for a longer period of time, apply an ample amount of lubricating oil before storing.
- Run the tool for approximately 30 seconds after lubricating, in order to ensure that the lubrication is uniformly distributed throughout the tool. Store the tool in a clean and dry environment.

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	Х		
In-depth inspection	Worn or broken parts			x	x
Replace worn or broken parts					X
Lubrication	See below	Pneumatic tool oil	x		

NOTE: When the temperature is below freezing, keep tools as warm as possible using any safe, convenient method.

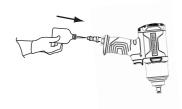


WARNING!

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

- Replace or repair damaged parts or accessories before using the Impact Wrench.
- Use only recommended and properly rated replacement parts. Non-authorized parts may be dangerous and will void the warranty.
- Disconnect the Impact Wrench from the air supply before changing accessories, servicing, or performing maintenance. Failure to comply could lead to serious injury or loss of life.

 Lubrication: If the Impact Wrench and the compressor are not equipped with an in-line lubrication system, place up 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 fasteners used.



- If a filter-regulator-lubricator is not installed in the system, lubricate the tool at least once a day or for every 2 hours of use, based on the work environment.
- Use only the recommended lubricating oil, specially made for pneumatic applications. Substitutes may harm the rubber compounds, O-rings, and other parts in the tools.
- The tool should be properly lubricated by keeping the in-line lubricator filled and correctly adjusted. Without proper lubrication, the tool will not work effectively and parts will wear prematurely.
- Inspect the tool periodically and replace worn or broken parts in order to keep tools operating safely and efficiently.
- Tighten all screws and caps frequently in order to prevent personal injury.
- Inspect the trigger, 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.



CAUTION!

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

- Never use damaged parts.
- Do not use an excessively worn tool. Failure to comply may result in moderate injury or damage to equipment.

TROUBLESHOOTING

Troubleshooting

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

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Tool runs at normal speed but loses speed under load.	1. Motor parts are worn or damaged. 2. Rotor blade is worn or stuck due to lack of lubricant.	1.Repair or replace the parts. 2. Lubricate the parts. Note: If the air tool is used for an extended period, it is recommended to lubricate regularly.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Tool runs at low speed. Air flows slightly from exhaust.	 Dirt particles are jammed in motor. Power regulator is in closed position. Air flow is blocked by dirt. Air supply is less. 	 Check if there is blockage in air inlet filter. Pour lubricating oil into air inlet as per instructions. Operate the tool by reversing the rotation in back and forth direction in short duration (wherever applicable). Check for obstructions in the air supply.
Tool stops working. Air flows freely from exhaust.	One or more motor vanes got stuck due to material build up.	 Pour air tool lubricating oil into air inlet. Operate the tool in short bursts by quickly reversing the rotation in back and forth direction (wherever applicable). Tap motor housing gently with plastic mallet. Disconnect the air supply. Operate the motor by manually rotating the drive shank (wherever applicable).
Tool does	O-rings in the throttle	Replace O-rings.

WARNING!

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

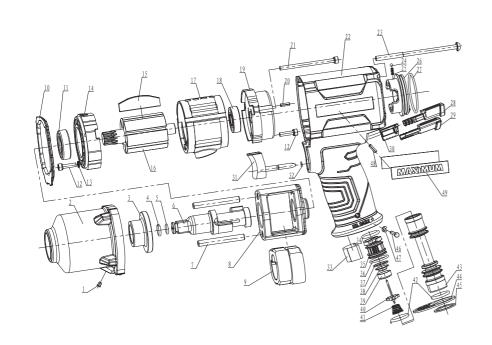
- If any of the following symptoms appear while the tool is in use, turn it off and disconnect it from the air supply immediately. Failure to heed this warning will result in serious personal injury.
- Disconnect the tool from the air supply before making any adjustments.
- Repairs must be performed in an authorized service centre only.

NOTE: For further repair information, please call 1-888-670-6682.

valve are dislodged from the seat inlet valve.

not shut off.

EXPLODED VIEW



No.	Description	Qty
1	Filling cup	1
2	Housing cover	1
3	Valve sleeve	1
4	Anvil bushing	1
5	O-ring 7.5x1.8	1
6	Anvil	1
7	Hammer pin	2
8	Hammer frame	1
9	Hammer	2
10	Hammer case gasket 1	1
11	Ball bearing 6002ZZ	1
12	Bolt M4x16	2
13	Washer	4
14	Front cover	1
15	Rotor blade	7
16	Rotor	1
17	Cylinder	1
18	Ball bearing 6001zz	1
19	Back cover	1
20	Pin 3 x 10	1
21	Bolt M4x60	2
22	Housing	1
23	Bolt M5 x 88.5	4
24	Steel ball dw=3.5	1

No.	Description	Qty
25	Spring	1
26	Regulator assembly	1
27	O-ring 40.5 x 2	1
28	Right/reverse button	1
29	Left/reverse button	1
30	Stopper	1
31	Trigger	1
32	O-ring 3 x 1	1
33	Muffler	1
34	O-ring 16 x 2.5	1
35	Throttle and reverse valve assembly	1
36	O-ring 17 x 1.8	1
37	Snap ring 15	1
38	Seal bushing	1
39	Seal	1
40	Tip valve	1
41	Spring	1
42	O-ring 15 x 2.65	1
43	Air inlet	1
44	Exhaust plate	1
45	Snap ring	1
46	Pin	1
47	E clip	1
48	Pin 2x8	1
49	Logo label	2

If any parts are missing or damaged and if you have any questions, please call 1-888-670-6682.

WARRANTY

This MAXIMUM product is guaranteed for a period of 5 years from the date of original retail purchase against defects in workmanship and materials only and is subject to the following conditions:

a) Component A: The carrying case is 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 the sole discretion of the Maximum Canada authorized repair centre ("Service Provider"). We will bear the cost of any repair or replacement and any costs of labour relating thereto.

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) Defects in workmanship and material to be assessed and determined by the Service Provider;
- c) 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);
- d) This warranty does not apply to normal wear and tear or to expendable parts or accessories (including drill bits and saw blades) that may be supplied with the product that by their nature have a limited life span and are expected to become inoperative or unusable after a reasonable period of use;
- e) This warranty will not apply to routine maintenance and consumable items such as, but not limited to, anvils, vans, washers, bearings, plates, pins, ratchet yokes, ratchet pawls, chisels, springs, rubber O-rings, tune-ups or adjustments;
- f) This warranty excludes the following components that may accompany your product:
 - (1) The carrying case, which is only for a period of 1-year from the date of original retail purchase against defects in workmanship and materials.
 - (2) Accessories, including drill bits and saw blades, which do not carry a warranty of any kind.
- g) This warranty will not apply where damage is caused by repairs made or attempted by others (i.e., persons not authorized by the manufacturer), and any such unauthorized repairs or attempted repairs shall void this warranty in its entirety;

- h) This warranty will not apply to any parts other than original parts, except to the extent that the retailer or manufacturer or persons authorized by either of them have repaired or replaced them;
- 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);
- j) 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;
- k) 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, abrasive and chemical cleaners; and
- This warranty will not apply to component parts sold by and identified as the product of another company, which shall be covered under that product manufacturer's warranty, if any;
- m) Any products replaced by the retailer in attempt to fulfill warranty obligations are subject to the original product warranty conditions and related time period as initiated by the original date of purchase; if product is purchased in Quebec, the warranty term will be extended for a period equal to the time during which the Quebec retailer possesses the product in attempt to fulfill warranty obligations; replaced product will not default to new product warranty conditions; and
- n) The retailer and manufacturer's sole obligation and the purchaser's sole remedy under this warranty shall be as set out herein. The warranties contained herein are not transferable and are given only to the purchaser.

FURTHER, THE WARRANTIES SET OUT HEREIN ARE IN LIEU OF ALL OTHER WARRANTIES OR CONDITIONS, WHETHER EXPRESS, IMPLIED OR STATUTORY (INCLUDING SUCH AS ARISE UNDER THE SALE OF GOODS ACT OR THE INTERNATIONAL SALE OF GOODS ACT), ARISING OUT OF A COURSE OF DEALING OR USAGE OF TRADE OR OTHERWISE, INCLUDING, SUBJECT TO APPLICABLE LAW, ANY IMPLIED WARRANTIES OR CONDITIONS OF MERCHANTABILITY, MERCHANTABLE QUALITY, FITNESS OR ADEQUACY FOR A PARTICULAR PURPOSE OR USE, AND ALL OTHER SUCH WARRANTIES ARE EXPRESSLY DISCLAIMED BY THE RETAILER AND MANUFACTURER.

WARRANTY

Additional Limitations

This warranty applies only to the original purchaser and may not be transferred.

This warranty applies for a period of 5 years from the date of original retail purchase, as indicated on the bill of sale.

Neither the retailer, Maximum Canada, 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.

Under no circumstances shall the retailer, Maximum Canada, or manufacturer be liable to the purchaser for any claim for (a) indirect, special, punitive, incidental, exemplary, or consequential damages, (b) compensation for loss of profits, anticipated revenue, savings or goodwill, or other economic loss of the purchaser, (c) exemplary, aggravated or punitive damages howsoever incurred, (d) contribution or set-off in respect of any claims against the purchaser, (e) any damages whatsoever relating to third party products or services or the purchaser's materials, or (f) any damages whatsoever relating to interruption, delays, errors or omissions; in each case under any theory of law or equity, arising out of or in any way related to this warranty, even if advised of the possibility thereof. Notwithstanding any provision herein or entitlement of the purchaser at law, in equity or otherwise, in no event shall the liability of the retailer or manufacturer under this warranty, whether in contract, tort, product liability or otherwise, exceed, in the aggregate, the amount paid by the purchaser to the retailer for the product to which this warranty applies.

*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.

In addition to the 5-Year Limited Warranty, this MAXIMUM product is covered by our:

1-Year Repair Warranty

Maximum Canada will maintain this product and replace critical parts which have worn beyond reasonable use through normal use of such product, any time during the first year after purchase.

The following are excluded from this 1-Year Repair Warranty:

- a) Missing or damaged parts or components that are a result of abuse or misuse:
- b) Any wear and tear to non-critical parts or accessories that do not affect the core function of the product.

90-Day Satisfaction Guarantee

If you are not completely satisfied with the performance of your MAXIMUM product for any reason, you can return it within 90 days from the date of purchase with proof of purchase for exchange or a full refund.

Made in China

Imported by MAXIMUM Canada Toronto, Canada M4S 2B8