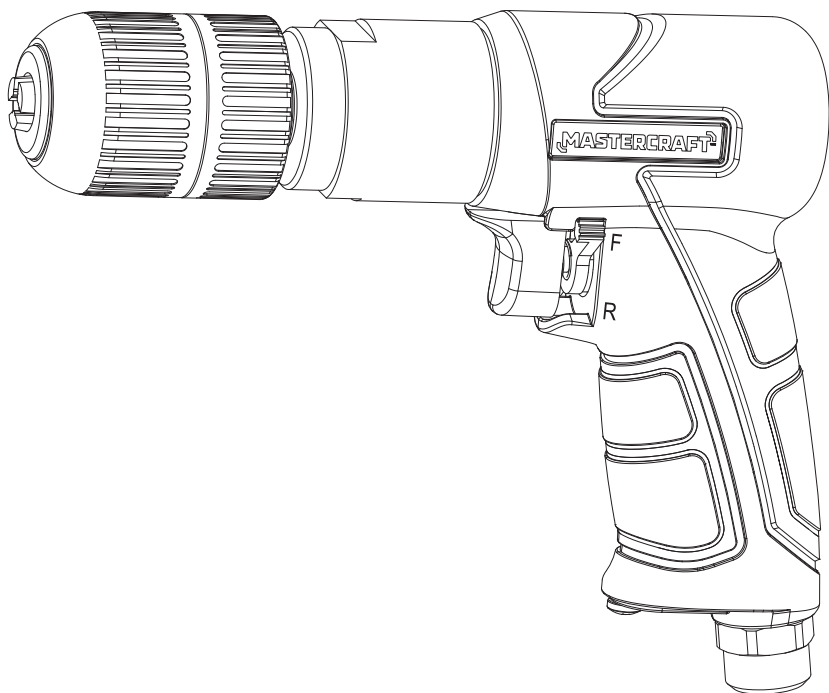


MASTERCRAFT™/MC

model no. 058-9334-6

AIR-POWERED DRILL



IMPORTANT:

For your own safety, read and follow all of the Safety Guidelines and Operating Instructions before operating this drill. Keep this manual for future reference.

INSTRUCTION MANUAL

TABLE OF CONTENTS

TECHNICAL SPECIFICATIONS	4
SAFETY GUIDELINES	5
KEY PARTS DIAGRAM	10
TECHNICAL INFORMATION	11
OPERATING INSTRUCTIONS	14
MAINTENANCE	15
TROUBLESHOOTING	17
EXPLODED VIEW	18
PARTS LIST	19
WARRANTY	20

NOTE: If any parts are missing or damaged, or if you have any questions, please call our toll-free helpline at 1-800-689-9928.



SAVE THESE INSTRUCTIONS

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

TECHNICAL SPECIFICATIONS

DRILL CHUCK	3/8" (9.5 mm)
SPEED (NO LOAD)	1800 RPM
OVERALL LENGTH	7" (180 mm)
CFM REQUIREMENT	3.8 @ 90 PSI
WORKING PRESSURE	90 PSI
AIR INLET	1/4"-18 NPT
WEIGHT	2 lb 9 oz (1.16 kg)

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

NPT: National Pipe Thread.

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 death.



WARNING!

Potential hazard that could result in serious injury or death.



CAUTION!

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

Note: The word “Note” is used to inform the readers of something they need to know about the tool.

PERSONAL SAFETY

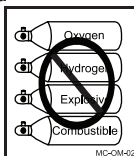
These precautions are intended for the personal safety of the user and others working with the user. Please take time to read and understand them.

Make sure you read and understand this manual before using this tool. Make sure other users read and understand this manual before they use 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 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 death.



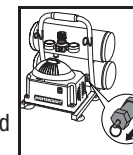
- Risk of burns:** The pump and the manifold generate high temperatures. In order to avoid burns or other injuries, do not touch the pump, the manifold, or the transfer tube while the compressor is running. Allow the parts to cool down before handling or servicing. Keep children and pets away from the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



- 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 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 the tank after each use. Do not weld nor repair the tank. Relieve all pressure in the hose before removing or attaching accessories.



- Risk of inhalation:** Never directly inhale the air produced by the compressor.



- Risk of electric shock:** Do not expose a compressor to rain. Store it indoors. Disconnect the compressor from the power source before servicing. The 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 people or animals.

**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 purposes and to prevent possible damage to the tool/user.
- Keep proper footing at all times in order to ensure correct balance.

**DANGER!**

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

- Do not use this tool in presence of flammable liquids or gases. Sparks that are created during use may ignite gases.
- Disconnect the tool from the air supply before changing accessories or servicing.
- Keep air-powered tools clean and lubricated. Daily lubrication is essential in order to avoid internal corrosion and possible failure.
- Do not wear a watch, rings, bracelets, or loose clothing when using rotary tools.
- Do not overload the tool by pressing too hard into the workpiece. For maximum efficiency, allow the tool to operate at its optimum speed.
- Do not increase the air pressure above the manufacturer's recommended level of 90 PSI. Doing so will cause excessive wear on moving parts and possible failure.

**CAUTION!**

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

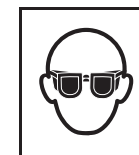
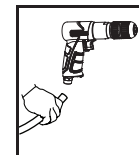
- Keep proper footing at all times in order to ensure correct balance.
- Do not use a tool that is leaking air, that has missing or damaged parts, or that requires repairs. Verify that all screws are securely tightened.
- For optimal safety and tool performance, inspect the tool daily in order to ensure free movement of the trigger, safety mechanisms, and springs.
- Check the tightness of screws before operating the tool. Before operating the tool, make sure all the screws and caps are securely tightened to prevent leakage.
- Keep the work area clean. A cluttered or dirty workbench may lead to an accident. Floors should be kept clear.
- 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.
- 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, which may cause tool failure.

**CAUTION!**

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

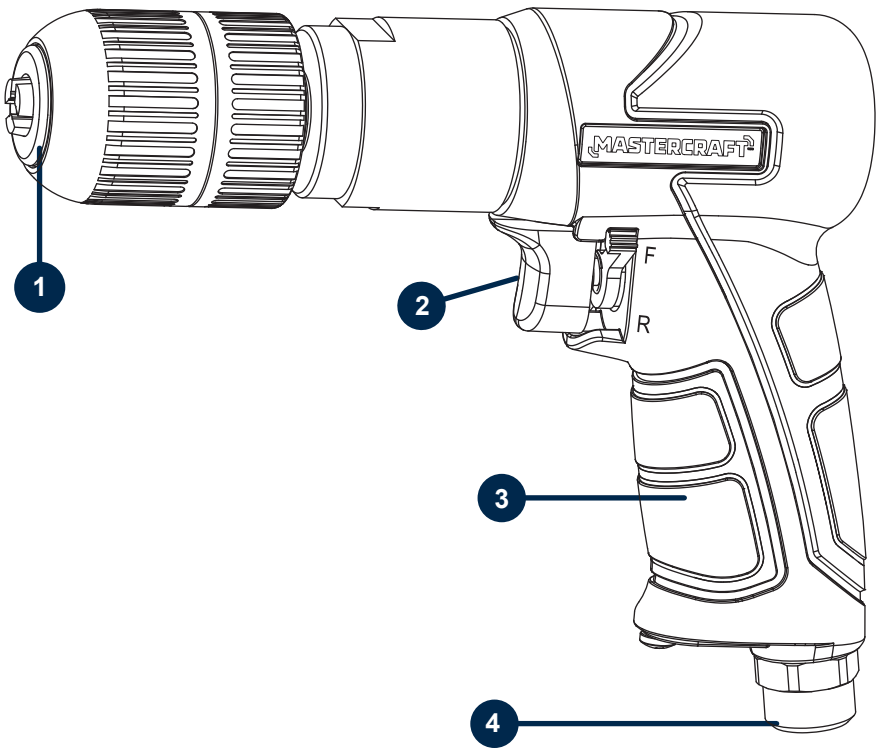


- Disconnect tool from the air supply and turn off the compressor before performing any maintenance, changing accessories, when the tool is not in use, when it is being handed to another person, and when it is left unattended. Failure to comply may result in injury or damage to equipment.
- Use safety goggles and ear protection: Wear safety glasses with side shields when operating the tool/compressor and verify that others in the work area are also wearing safety glass. Safety glasses must conform to American National Standards Institute ANSI Z87.1 (or in Canada, CSA Z94.3) requirements and must provide protection from flying particles from the front and the sides.



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

No.	Description	No.	Description
1	3/8" keyless chuck	3	Handle
2	Trigger	4	Air inlet plug



General use

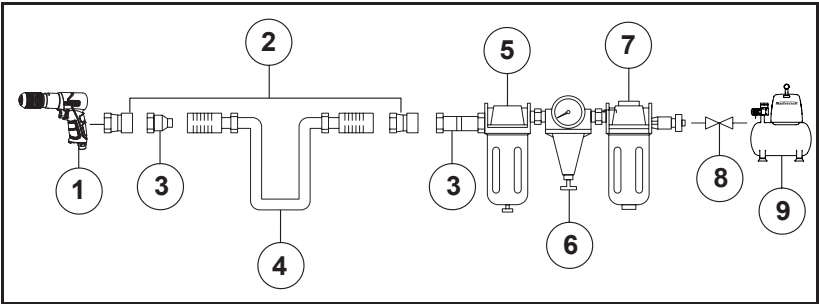
The Mastercraft® Air-powered Drill is a heavy-duty reversible air drill featuring a quiet design, speeds from 1200 to 1700 RPM, and a keyless 3/8" chuck. No matter what the job entails, this drill will help you conquer whatever the day brings. Applications for this reversible air drill include: home improvement projects, body work installation and repair, farm implement assembly and repair, general equipment, auto repair and maintenance, boat repair, truck repair and more.

Compatible compressors

GUIDELINES FOR PROPER USE AND OPERATION

Always ensure that a suitable air compressor is used with this Mastercraft® Air-powered Drill. The compressor should be able to supply a minimal air delivery of 4 CFM @ 90 PSI to ensure the compressor can run continuously with the Mastercraft® Air-powered Drill. 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 and more
5–11 Gallons	Light-duty and intermittent use	Medium-duty and intermittent use	Medium-duty and intermittent use
15–30 Gallons	Medium-duty and intermittent use	Heavy-duty and intermittent use	Heavy-duty and intermittent use
60 Gallons and more	Heavy-duty and intermittent use	Heavy-duty and continuous use	Heavy-duty and continuous use



- 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 amount of oil should be avoided.

- Ensure that air is supplied at regulated pressure and the airflow 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 26'8 m). The minimum hose diameter (ID) should be 1/4" (6.4 mm) and the fittings must have the same inner dimensions.

No.	Description	No.	Description
1	Mastercraft® Air-powered Drill	6	Regulator 0 - 123 PSI (0 - 8.5 bar)
2	Quick connector	7	Filter
3	Quick coupler	8	Cut-off valve
4	Air hose	9	Air compressor
5	Lubricator		

Air system

- Always use clean, dry, regulated, compressed air at 60 to 100 PSI (4.1 to 6.9 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.
- 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.



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.

OPERATION

1. Plug in compressor, turn it on, and set the pressure regulator to 90 PSI (6.2 bar). Attach one end of the air hose to the compressor and the other end of the air hose (1) to the air-powered drill (2). Use plumber's tape to prevent air leaks (Fig. A).

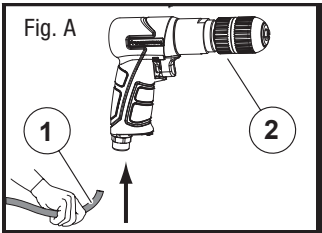
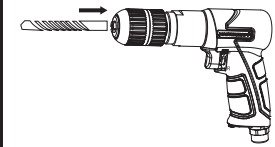
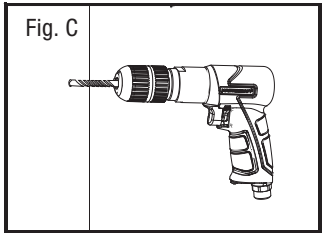


Fig. B

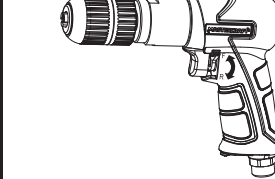


2. Insert a drill bit with up to a 3/8" (9.5 mm) diameter shaft. Rotate chuck clockwise to tighten and counter-clockwise to loosen (Fig. B).



3. Start by drilling a pilot hole using a smaller diameter drill bit or by punching an indent at the location in which you wish to drill. Apply steady pressure while drilling, withdrawing drill occasionally to clear cutting. Pull drill out of hole before releasing trigger (Fig. C).

Fig. D



4. One-handed forward/reverse switch allow for fast direction changes (Fig. D).



WARNING!

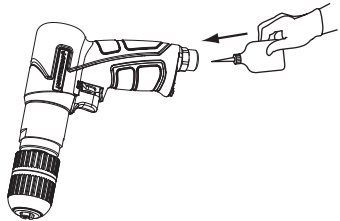
Potential hazard that could result in serious injury or loss of life.

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

Maintenance

MAINTENANCE REQUIRED	DESCRIPTION	TOOLS OR MATERIALS REQUIRED	MAXIMUM SERVICE INTERVAL		
			Each Use or Every 30 Minutes	Monthly	As Needed
General inspection—free movement	Trigger, spring, safety mechanism	None	X		
Cleaning	Wipe tool clean and inspect tool for wear or damage. Use non-flammable cleaning solutions to wipe the tool. Never soak the tool in these solutions as they can cause internal damage.	Each use	X		
Tighten screws	Always ensure that all of the screws are kept tight as loose screws can cause injury or can damage the tool.	Check each usage. Tighten as necessary			X
Lubrication	See below	Pneumatic tool oil	X		

• Lubrication: If the air-powered drill 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.



WARNING!

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

- Always disconnect the air supply before commencing any cleaning or inspection and remember to correct all the problems before beginning any repair work.
- The tool owner and operator are responsible for assuring that the tool is kept in safe working order. Furthermore, only service personnel trained by the manufacturer, distributor, or employer should repair the tool.
- Disconnect the tool from the air compressor before adjusting, servicing and maintenance, reloading, and when it is not in use.

Storage

If it is necessary to store the tool for an extended period of time, apply a generous amount of lubrication before storing. The tool should be allowed to run for approximately 30 seconds after lubricating in order to ensure that the lubrication is uniformly distributed throughout the tool.

- 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 trigger, the spring, and the safety mechanism for free movement on a regular basis in order to ensure that the safety system is fully functional.
- Disconnect the tool from the air supply when it is not in use.
- When temperatures are below freezing, keep tools as warm as possible using any safe, convenient method.
- Check the air supply for correct size and type of hose connectors. Ensure that there is no additional drain on the air line and no moisture or restriction in the air pipe to avoid loss of power or erratic action.
- Clean the air strainer located in the area of the air inlet plug to avoid deposition of grit or gum deposits which may lead to loss of power or erratic action and may also reduce the performance of the tool.

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. Pressure turned down too low. 2. Compressor is undersized. 3. Rotor parts are worn. 4. The motor rotor is worn or sticking due to insufficient lubrication.	1. Set pressure for 90 PSI. 2. Get new compressor. 3. Lubricate the clutch housing. 4. Check for excess motor rotor oil. Motor rotor cases should only be filled halfway. Overfilling may cause drag on high-speed motor rotor parts. A typical oiled/lubricated drill requires 1/2 oz (1.5 mL) of oil.
The tool runs slowly. The air flows slightly from exhaust.	1. Air hose is kinked. 2. The airflow is blocked by dirt. 3. Dirt particles are jammed in rotor. 4. The power regulator is in the closed position.	1. Lay air hose out straight to avoid kinks. 2. Check the air inlet filter for blockage. 3. Pour air tool lubricating oil into the air inlet as per instructions. 4. Operate the tool in short bursts, quickly reversing rotation back and forth, where applicable. Repeat above steps as needed.
The tool will not run. The air flows freely from the exhaust.	One or more of the rotor vanes are stuck due to material build-up.	1. Pour air tool lubricating oil into the air inlet. 2. Operate the tool in short bursts, quickly reversing rotation back and forth, where applicable. 3. Tap the rotor housing gently with a plastic mallet. 4. Disconnect the drill from the air supply. Free the rotor by rotating the chuck manually, where applicable.
The tool will not shut off.	The valve pin O-ring have dislodged from their seats on the valve pin.	Replace the O-ring.

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



WARNING!

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

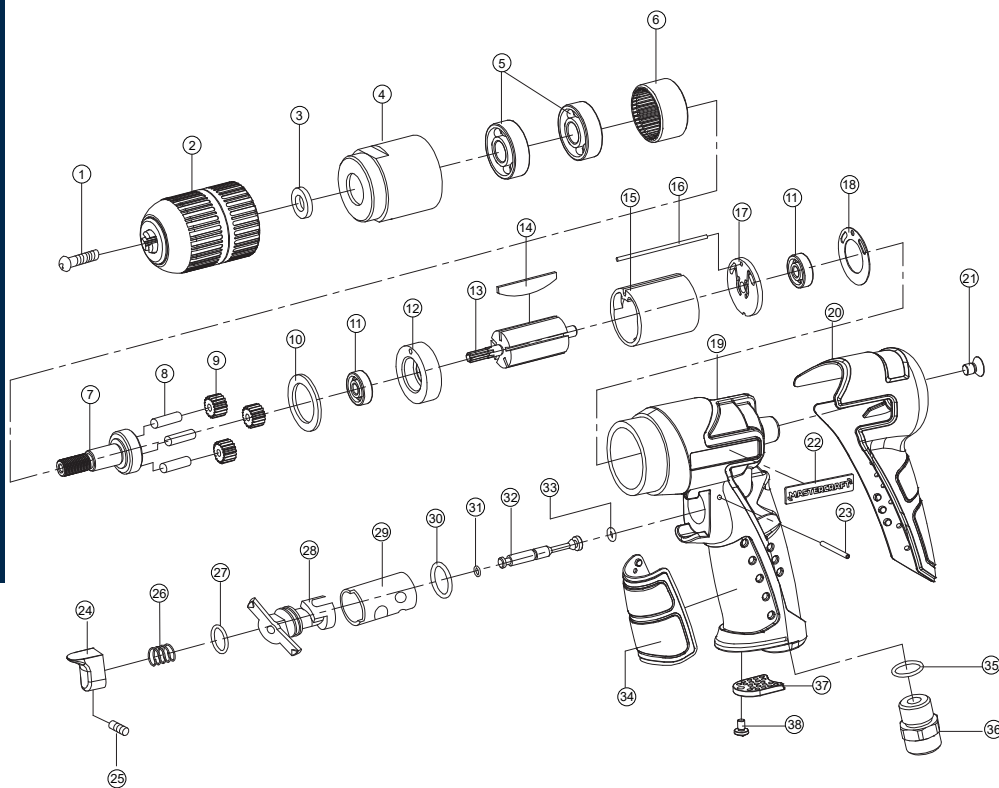
- If any of these symptoms appear while the tool is in use, turn it off and disconnect it from the air supply immediately. Failure to heed this warning will result in serious personal injury.
- Disconnect the tool from the air supply before making any adjustments.
- Repairs must be performed in an authorized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



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.



No.	Description	Qty.
1	Bolt M5 x 20	1
2	3/8" Chuck	1
3	Gasket	1
4	Connector	1
5	Ball bearing 6201ZZ	2
6	Gear wheel	1
7	Planet cage	1
8	Planet gear pin	3
9	Planet gear	3
10	Washer	1
11	Front rotor ball bearing 626 ZZ	2
12	Front end plate	1
13	Rotor	1
14	Rotor blade	1
15	Cylinder	1
16	Steel wire	1
17	Rear end plate	1
18	Sealing ring	1
19	Gun body	1
20	Housing	1

No.	Description	Qty.
21	Bolt M6 x 8	1
22	Logo	2
23	Pin 3 x 26	1
24	Trigger	1
25	Bolt M4 x 8	1
26	Spring	1
27	O-ring 11.5 x 1.8	1
28	Reverse valve	1
29	Copper pipe	1
30	O-ring 12 x 3	1
31	O-ring 4 x 1.1	1
32	Pin	1
33	O-ring 4 x 2	1
34	Grip	1
35	O-ring 14.5 x 1.8	1
36	Air inlet plug	1
37	Silencing cover	1
38	Bolt M4 x 6	1

3-Year Limited Warranty

This product is guaranteed for a period of three (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 one (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.

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 instruction 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 which are expected to become inoperative or unusable after a reasonable 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.

Made in China

Imported by Mastercraft Canada Toronto, Canada M4S 2B8