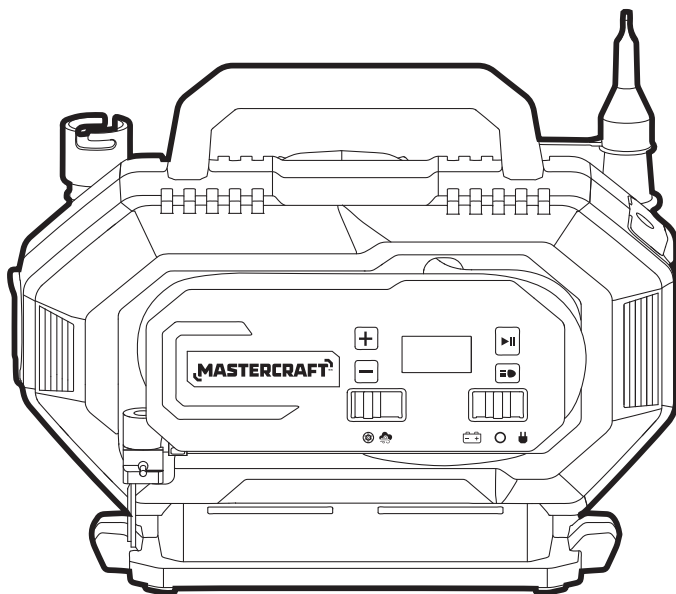


MASTERCRAFT™/MC

CONVERTIBLE BOX INFLATOR

054-2436-4



IMPORTANT:

Read and understand this instruction manual thoroughly before using the product.

INSTRUCTION MANUAL

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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

Rated voltage	120V~, 60Hz ,1.1A (blower function), 1.25A (inflator function) or 20V d.c.
Maximum pressure	160 PSI
Insulation protection	

*Maximum battery voltage without workload; with workload nominal voltage is 18V.

Recommend using tool with Mastercraft® 20V max* Lithium-ion 4.0 Ah battery (054-7557-6; sold separately) and higher capacity batteries for optimal performance.

SAFETY GUIDELINES:



WARNING!

Safety symbols in this Instruction Manual are used to flag possible dangers. The safety symbols and their explanations require your full understanding. The safety warnings do not, by themselves, eliminate any danger, nor are they substitutes for proper accident prevention measures.



WARNING!

This Safety Alert Symbol indicates caution, warning, or danger. Failure to obey a safety warning can result in serious injury to yourself or others. To reduce the risk of injury, fire, or electric shock, always follow the safety precautions.

KNOW YOUR TOOL

To operate this tool, carefully read this Instruction Manual and all labels affixed to the inflator before using. Keep this instruction manual available for future reference.

IMPORTANT

This tool should only be serviced by a qualified service technician. For more information, call the toll free helpline at 1-800-689-9928.

READ ALL INSTRUCTIONS THOROUGHLY.

SAVE THESE INSTRUCTIONS.

GENERAL POWER TOOL SAFETY WARNINGS



WARNING!

Read all safety warnings, instructions, illustrations and specifications provided with this power tool. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

SAVE ALL WARNINGS AND INSTRUCTIONS FOR FUTURE REFERENCE.

The term “power tool” in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

WORK AREA SAFETY

- **Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- **Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.

- **Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

ELECTRICAL SAFETY

- **Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adaptor plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- **Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- **Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- **When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- **If operating a power tool in a damp location is unavoidable, use a ground fault circuit interrupter (GFCI) protected supply.** Use of an GFCI reduces the risk of electric shock.

PERSONAL SAFETY

- **Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- **Use personal protective equipment. Always wear eye protection.** Protective equipment such as a dust mask, non-skid safety shoes, hard hat or hearing protection used for appropriate conditions will reduce personal injuries.
- **Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
- **Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- **Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
- **Dress properly. Do not wear loose clothing or jewellery. Keep your hair and clothing away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
- **If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.

- **Do not let familiarity gained from frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.

POWER TOOL USE AND CARE

- **Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
- **Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- **Disconnect the plug from the power source and/or remove the battery pack, if detachable, from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
- **Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool.** Power tools are dangerous in the hands of untrained users.
- **Maintain power tools and accessories. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
- **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- **Use the power tool, accessories and tool bits, etc., in accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
- **Keep handles and grasping surfaces dry, clean and free from oil and grease.** Slippery handles and grasping surfaces do not allow for safe handling and control of the tool in unexpected situations.

BATTERY TOOL USE AND CARE

- **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
- **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.

- **Do not use a battery pack or tool that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behaviour resulting in fire, explosion or risk of injury.
- **Do not expose a battery pack or tool to fire or excessive temperature.** Exposure to fire or temperature above 265°F (130°C) may cause explosion.
- **Follow all charging instructions and do not charge the battery pack or tool outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.

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.
- **Never service damaged battery packs.** Service of battery packs should only be performed by the manufacturer or authorized service providers.

ADDITIONAL SAFETY GUIDELINES FOR THE INFLATOR

- **The label on your tool may include the following symbols. The symbols and their definitions are as follows:**

V Volts

A Amperes

Hz Hertz

W Watts

min Minutes

PSI.....Pounds per square inch

KPA.....Kilopascal

BAR.....A unit of pressure

~ Alternating current

— or d.c Direct current

n₀ No-load speed

□ Class II construction

.../min or ...min⁻¹ Revolutions or reciprocations per minute



..... WARNING – To reduce the risk of injury, user must read instruction manual.



..... WARNING – To reduce the risk of injury always wear eye protection.



..... WARNING – To reduce the risk of injury always wear ear protection.

- Risk of bursting. Do not allow inflator to make pressure greater than marked maximum pressure of item to be inflated. Do not use at pressure greater than 160 PSI.
- Inspect unit for cracks, pin holes, or other imperfections that could cause inflator to become unsafe. Never cut or drill holes in the inflator.
- Make sure the hose is free of obstructions or snags. Entangled or snarled hoses can cause loss of balance or footing and may become damaged.
- Never leave an inflator unattended with the air hose attached to the item being inflated.
- Do not continue to use an inflator or hose that leaks air or does not function properly.
- Do not attempt to pull or carry the inflator by the hoses.
- Do not use inflator as a breathing device.
- Never direct a jet of compressed air toward people or animals. Take care not to blow dust and dirt towards yourself or others. Following this rule will reduce the risk of serious injury.
- Protect your lungs. Wear a face or dust mask if the operation is dusty. Following this rule will reduce the risk of serious personal injury.
- Do not use this inflator to spray chemicals. Your lungs can be damaged by inhaling toxic fumes.
- To reduce the risk of over-inflation, use a reliable pressure gauge periodically during inflation. The pressure gauge on the inflator is for reference only and may not show exact values.
- Allow pump to cool for ten (10) minutes after each ten (10) minutes of continuous use. Never block the inflating or deflating outlets while operating.
- For best results, your battery and tool should be charged, stored and used in a location where the temperature is more than 41°F (5°C) but less than 104°F (40°C). Store indoor only.
- Household use only.
- **This appliance has 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 the proper outlet. Do not change the plug in any way.



WARNING!

To reduce the risk of electric shock or damage to the charger and battery, use only the Mastercraft® batteries and chargers listed.

BATTERY PACK

054-3124-0, 054-7553-4,
054-7557-6, 054-2434-8

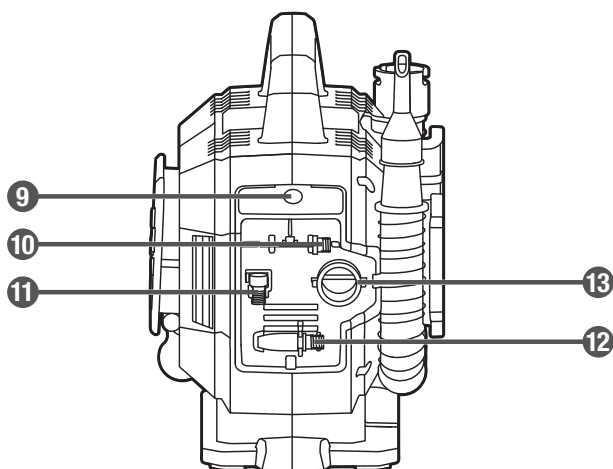
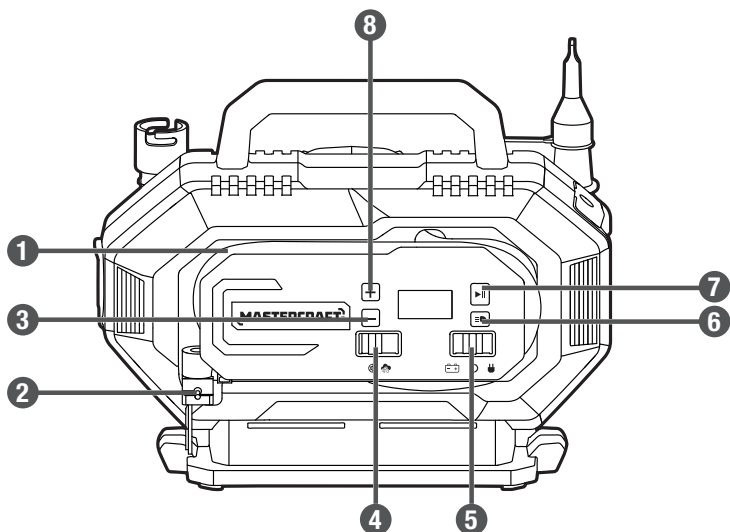
CHARGER

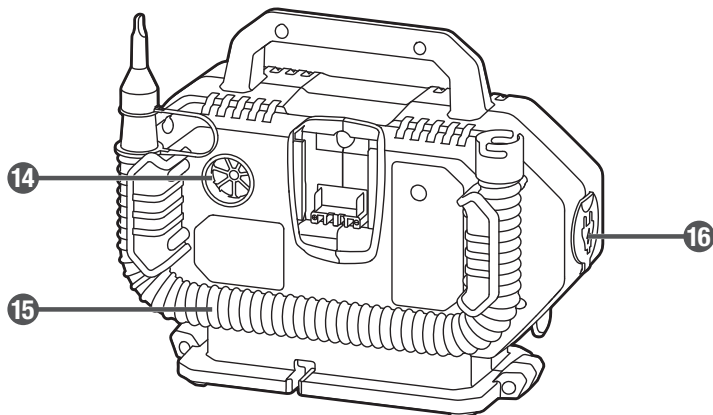
054-3126-6, 054-7559-2

- High pressure mode is for inflating bike tires, cars, balls, etc.; low pressure mode is for inflating or deflating large inflatables like air mattresses, rafts, swimming pool floats, etc..
- In a double-insulated product, two systems of insulation are provided instead of grounding. No grounding means is provided on a double-insulated product, nor should a means for grounding be added to the product. Servicing of a double-insulated product requires extreme care and knowledge of the system, and should be done only by qualified service personnel. Replacement parts for a double-insulated product must be identical to those parts in the product.
- Do not modify or attempt to repair the appliance or the battery pack (as applicable) except as indicated in the instructions for use and care.

PACKAGE CONTENTS:

Inflator, 1 presta valve adaptor, 1 ball needle adaptor, 1 pinch valve adaptor, 1 low pressure hose and instruction manual

KEY PARTS DIAGRAM



KEY PARTS DIAGRAM

No.	Description
1	High pressure hose
2	Tire inflator
3	– Button
4	Pressure selector
5	Power selector
6	Light switch
7	On/off switch
8	+ Button

No.	Description
9	Light
10	Ball needle adaptor
11	Presta valve adaptor
12	Pinch valve adaptor
13	Low pressure air output
14	Air intake
15	Low pressure hose
16	AC adaptor cap

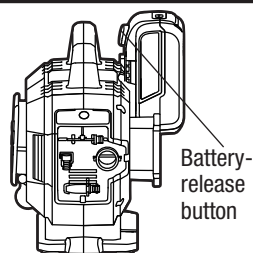


WARNING!

- Remove the inflator from the package and examine it carefully. Do not discard the carton or any packaging material until all parts have been examined.
- If any part of the inflator is missing or damaged, do not attach the tool to a power source or use the tool until the part has been repaired or replaced. Failure to heed this warning could result in serious injury.

OPERATING INSTRUCTIONS**ATTACH THE BATTERY PACK (fig 1)**

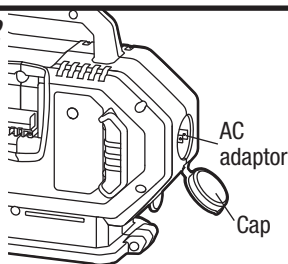
1. Align the raised rib on the battery pack with the grooves on the back side of the tool, then slide the battery pack onto the tool.
2. Ensure that the battery-release button on the battery pack snaps into place and the battery pack is secured to the tool before beginning operation.

fig 1**REMOVE THE BATTERY PACK (fig 1)**

1. Press the battery-release button to release the battery pack.
2. Pull the battery pack out to remove it from the tool.

USE THE AC ADAPTOR (fig 2)

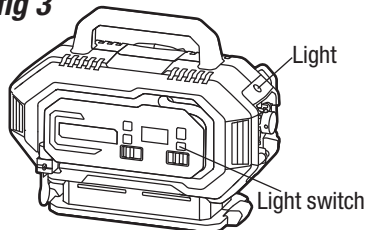
The inflator can also be connected to the 120V AC power source. Pull out the cap, insert an extra power cord onto the AC adaptor, and then you can use the power source. The extension cord should have a suitable plug–receptacle to match with the AC adaptor. The types of the extension cord include SW, SOW, STW, STOW, SJW, SJOW, SJTW, SJTOW, etc..

fig 2**Recommended sizes of extension cords:**

Tool's ampere rating	Volts	Total length of cord in feet Cord size in AWG. (minimum)			
		25'	50'	100'	150'
0–6	120 V~	18	16	16	14
6–10		18	16	14	12
10–12		16	16	14	12
12–16		14	12	Not recommended	

LIGHT (fig 3)

1. Turn the light on by pressing the light switch.
2. Turn the light off by pressing the light switch again.

fig 3

INFLATING USING HIGH PRESSURE HOSE (INFLATOR FUNCTION)

INFLATING CAR OR BICYCLE TIRES

(fig 4 - fig 5)

1. Remove the tire inflator and high pressure hose from its storage area.

2. CAR TIRES:

Remove tire's valve cap. Move tire inflator's lever straight up and push it over tire's valve stem. Move the lever down to lock the tire inflator.

3. BICYCLE TIRES:

a. Schrader valve: Remove the tire valve cap. Move the tire inflator lever straight up and push it over the tire valve stem. Move the lever to the locked position.

b. Presta valve: Remove the tire valve cap. Open the valve tip. Thread the presta valve adaptor on to the valve stem. Move the tire inflator lever straight up and push it over the presta valve adaptor. Move the lever to the locked position.

4. a. Attach the battery pack to the tool and slide the power selector from the middle place to the left side to use the DC power source.

b. Insert an extra power cord onto the AC adaptor, connect the power plug to the 120V alternating current power source, and then slide the power selector from the middle place to the right side.

5. Slide the pressure selector to the left side first. Select the pressure unit by pressing the "+" "-" buttons simultaneously until the desired unit is displayed (PSI, BAR or KPA). Set the pressure by pressing the "+" or "-" button until the proper pressure is displayed.

6. To start inflating, press the on/off switch.

7. To stop inflating, press the on/off switch again.

8. When finished, move tire inflator's lever straight up and then remove the tire inflator.

9. Unplug or remove the battery pack after use.

fig 4

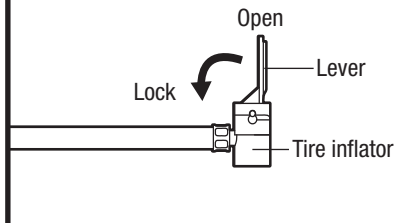
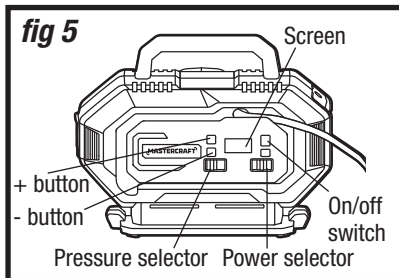


fig 5



NOTICE: Make sure the tire inflator is firmly locked in place before starting inflation.

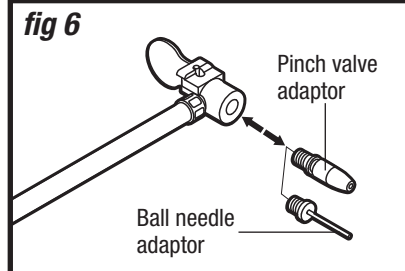


WARNING!

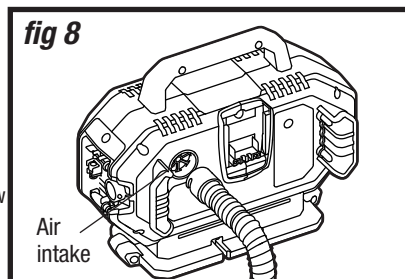
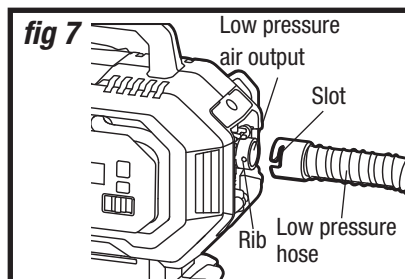
- To prevent serious injury and death from explosion, do not overinflate. Do not leave the tool unattended while operating.

INFLATING SMALL INFLATABLES (fig 6)

1. Remove the high-pressure hose from its storage area.
2. Move tire inflator lever straight up and insert adaptor. Move the lever to the locked position.
3. Connect the adaptor to the item to be inflated.
4. Select either the DC or AC power source.
5. Slide the pressure selector to the left side first. Set the pressure as you need according to the above instruction.
6. To start inflating, press the on/off switch.
7. To stop inflating, press the on/off switch again.
8. When finished, move tire inflator's lever straight up and then remove the tire inflator.
9. Unplug or remove the battery pack after use.

**INFLATING AND DEFLATING USING LOW PRESSURE HOSE (fig 7 - fig 8)****LARGE INFLATABLES**

1. Remove the low pressure hose from its storage area.
2. a. Connect low pressure hose to low pressure air output for inflating (**BLOWER FUNCTION**) (fig 7). Align the slots on the hose to the ribs on the output and then turn the hose counter-clockwise until it locks in place.
b. Insert low pressure hose fully into air intake for deflating (fig 8).
3. Connect other end of the hose to the item to be inflated/deflated. Connect the hose directly or use the adaptor attached to the hose.
4. Select either the DC or AC power source.
5. Slide the pressure selector to the right side first for low pressure. To start inflating/deflating, press the on/off switch.
6. To stop inflating/deflating, press the on/off switch again.
7. When finished, remove the hose from the item to be inflated/deflated.
8. Unplug or remove the battery pack after use.



MAINTENANCE

1. Before each use, inspect the general condition of the tool. Check for:
 - leaking, swollen, or cracked battery pack,
 - loose hardware,
 - misalignment or binding of moving parts,
 - cracked or broken parts,
 - any other condition that may affect its safe operation.
2. After use, wipe the external surfaces of the tool with a clean cloth.
3. Use a vacuum to clean debris from the air intake and external air vents.
4. Store the product, its accessories, and extension cord in a dark, dry, frost-free, well-ventilated place.



WARNING!

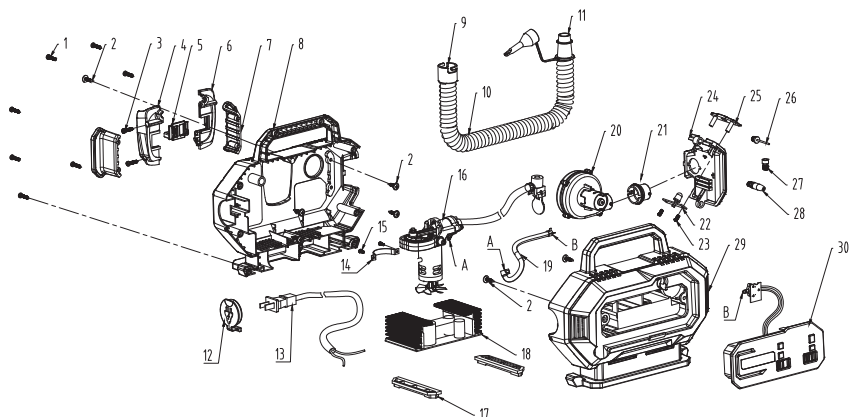
- When servicing, use only identical replacement parts. Use of any other parts may create a hazard or cause product damage.
- To avoid serious personal injury, always remove the battery pack or unplug the power from the product when cleaning or performing any maintenance.
- To ensure safety and reliability, all repairs should be performed by a qualified service technician.

TROUBLESHOOTING

Problem	Possible Causes	Solution
Tool doesn't work.	Battery is depleted.	Charge the battery.
	Tool is not connected to the power source.	Connect the tool to the power source.
	Battery is overheated.	Cool the battery and restart the tool.
Tool is overheated.	The tool works continuously for more than 10 min.	Cool the tool for more than 10 min and restart the tool.

If the problem remains unresolved after performing the checks described above, call the toll-free helpline at 1-800-689-9928.

EXPLODED VIEW



No.	Part No.	Description
1	0542436401	Tapping Screw
2	0542436402	Screw
3	0542436403	Tapping Screw
4	0542436404	Left Guide Rail
5	0542436405	Battery Pack Pin
6	0542436406	Right Guide Rail
7	0542436407	Pipe Support
8	0542436408	Back Housing
9	0542436409	Low Pressure Pipe Connection B
10	0542436410	Corrugated Pipe
11	0542436411	Low Pressure Pipe Connection A
12	0542436412	Cap
13	0542436413	Cable and Plug
14	0542436414	Motor Clamp
15	0542436415	Tapping Screw

No.	Part No.	Description
16	0542436416	Pump Assembly
17	0542436417	Floor Mat
18	0542436418	Power Supply Board
19	0542436419	High Pressure Hose
20	0542436420	Fan Assembly
21	0542436421	Extension Connector
22	0542436422	LED Circuit Board
23	0542436423	Tapping Screw
24	0542436424	Attachment Cap
25	0542436425	Cover
26	0542436426	Ball Needle Adaptor
27	0542436427	Presta Valve Adaptor
28	0542436428	Pinch Valve Adaptor
29	0542436429	Front Housing
30	0542436430	Control Panel Assembly

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

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 components:

- a) Component A: Batteries, chargers and carrying case, which are guaranteed for a period of 2 years from the date of original retail purchase against defects in workmanship and materials;
- b) Component B: 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.

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 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, abrasive and chemical cleaners; and
- 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

