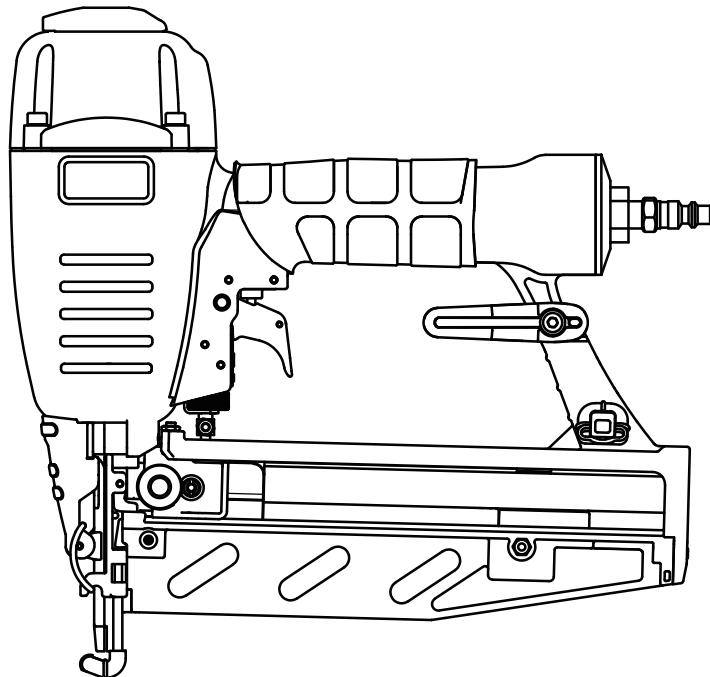




# AIR-POWERED FINISHING NAILER



**Model no. 058-1971-6**

**IMPORTANT:**

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

**INSTRUCTION  
MANUAL**

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## TECHNICAL SPECIFICATIONS

LOADING CAPACITY	100 Nails
FASTENER DETAILS	16-gauge finishing nails 1 – 2 1/2" (25 – 64 mm)
OPERATING PRESSURE	70 – 120 PSI (4.8 – 8.3 bar)
AIR CONSUMPTION	0.0675 CF/cycle @ 90 PSI
WEIGHT	4 lb 4.8 oz (1.95 kg)
AIR INLET	1/4" -18 NPT

CF: Cubic Feet (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.

## PERSONAL SAFETY

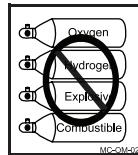
These precautions are intended for the personal safety of the user and others working with the user. Please take time to read and understand them.

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.

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



- 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 only compressor. Failure to comply will result in serious injury or death.



- 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 persons or animals.

## DANGER!



Potential hazard that will result in serious injury or death.

- 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, even when the tool has stopped. Keep hands, feet, and all other parts of the body clear from work area.
- Do not attempt to clear nailer jams while the air hose is connected.
- Do not keep the trigger or the safety bracket pressed while loading nails. Unintentional firing of a nail could cause serious personal injury or death.
- Do not disconnect or reconnect the air hose with the trigger pressed. The air-powered finishing nailer may fire when it is reconnected to the air supply.



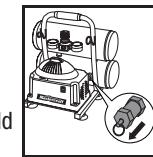
- Risk of burns: The pump and the manifold generate high temperatures. In order to avoid burns or other injuries, do not touch the pump, the manifold, or the transfer tube while the compressor is running. Allow the parts to cool down before handling or servicing. Keep children and pets away from the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



## WARNING!

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

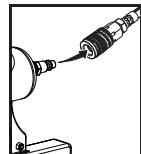
- Do not allow inexperienced or untrained individuals to operate the nailer or any other air-powered tool.
- Keep hands and other parts of the body away from the firing head during use. Keep hands, feet, and all other parts of the body at least 8" (20 cm) away from the firing head. Nails or objects in the workpiece can cause serious injury if they are deflected by the workpiece or if they are driven away from the point of entry.
- Do not overload the tool. Allow the tool to operate at its optimum speed for maximum efficiency.
- Locate the compressor in a well-ventilated area for cooling, at a minimum of 12" (30 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 before every usage, and replace them if necessary.
- Always wear eye and hearing protection when using the 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.
- Always replace a damaged gauge before operating the unit again.



### CAUTION!

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

- Disconnect the tool from the air supply and turn off the compressor before performing any maintenance, when loading or changing nails, 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.

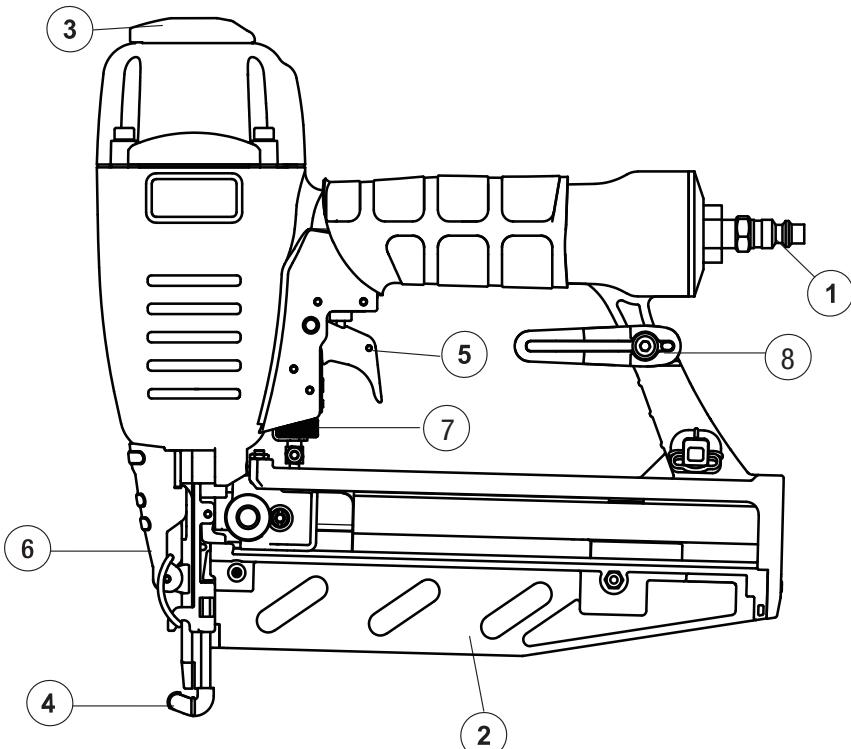


- **Use safety goggles and ear protection:**

Wear safety glasses with side shields when operating the tool 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 (or in Canada: CSA Z94.3) 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 injury.

No.	Description	No.	Description
1	Air inlet plug	5	Trigger
2	Magazine	6	Jam release
3	Adjustable exhaust	7	Adjustable depth control
4	No-mar nosepiece	8	Reversible belt hook



**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.

## Compatible compressors

### GUIDELINES FOR PROPER USE AND OPERATION

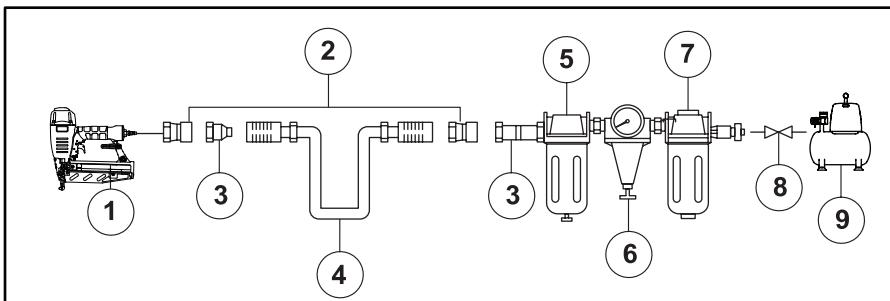
Be sure to use a proper air compressor with Mastercraft® air-powered tools. The compressor should be able to supply a minimal air delivery of 4.05 CFM @ 90 PSI to ensure the compressor can run continuously with the Mastercraft® Air-powered Finishing Nailer.

## General use

This Mastercraft® Air-powered Finishing Nailer drives 1 to 2 1/2" (25 to 64 mm) long 16-gauge nails. The tool has a strong and lightweight die-cast aluminium body, and a rubber handle for improved control and comfortable grip even during extended use. It features a 360° air deflector for air exhaust, an easy-to-clear nose for quick jam release, a toolless depth adjustment for proper setting of nail head, and a reversible belt hook for keeping the tool close. It is best suited for installing door and window trim, decorative trim, small cabinet work, and finishing work on panelling.

Air Compressor Size and Power	1 1/2-2 HP	2 1/2 HP	3+ HP
4-5 Gallons	Light-duty and intermittent use	Light-duty and intermittent use	Light-duty and intermittent use
6-11 Gallons	Light-duty and intermittent use	Medium-duty and intermittent use	Medium-duty and intermittent use
15+ Gallons	Medium-duty and intermittent use	Heavy-duty and continuous use	Heavy-duty and continuous use

Wood Density	Nail Size	Compressor Air Pressure
>0.6 g/cm <sup>3</sup>	<1 1/2" (38 mm) T nails	90 PSI (6.3 bar)
	≥1 1/2" (38 mm) T nails	110 PSI (7.5 bar)
≤0.6 g/cm <sup>3</sup>	<1 1/2" (38 mm) T nails	70 PSI (4.8 bar)
	≥1 1/2" (38 mm) T nails	100 PSI (7 bar)



No.	Description	No.	Description
1	MASTERCRAFT® Air-powered Finishing 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		

## Air system

- Always use clean, dry, regulated, compressed air at 70 to 120 PSI (4.8 to 8.3 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 death.

- 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 death.

- 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.

Read this Instruction Manual carefully before using the Mastercraft<sup>®</sup> Air-powered Finishing Nailer.

- Read and follow all the safety instructions at the beginning of this manual. Inspect the Mastercraft<sup>®</sup> Air-powered Finishing 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!

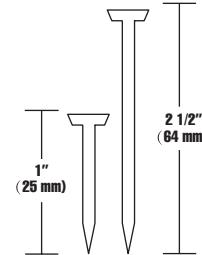
Potential hazard that could result in serious injury or death.

- 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.

This Mastercraft<sup>®</sup> Air-powered Finishing Nailer drives 1" to 2 1/2" (16 gauge) nails.

## ACCEPTABLE NAILS

Length: 1 – 2 1/2" (25 – 64 mm)



## NAIL TYPE ICONS

These icons are used to select the proper nails for this specific nailer.



**Note:** Icons are colour coded. Please refer to the actual tool for the specific colour.



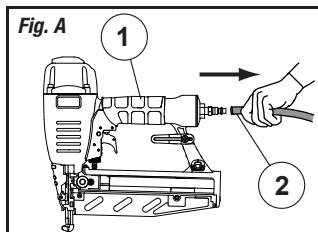
## WARNING!

Potential hazard that could result in serious injury or death.

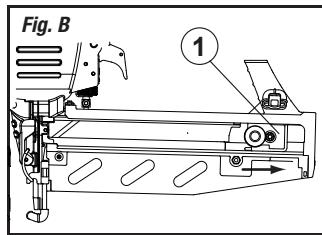
- The use of any other types of nails will cause the nailer to jam and could lead to serious injury or death.

**Loading nails**

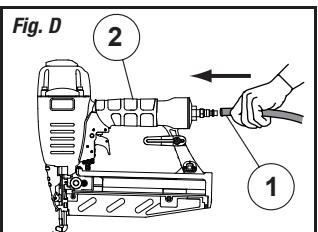
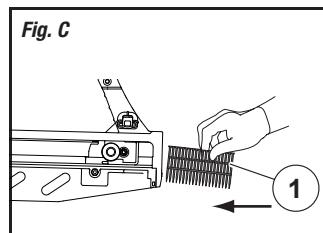
1. Disconnect the tool (1) from the air supply (2) (Fig. A).



2. Hold the tool firmly with one hand and use the other hand to slide the pusher (1) back until locked (Fig. B).



3. Insert a strip of nails (1) through the slot in the rear of magazine. Ensure the points of the nails are facing down. Press the lock button to release the pusher. The pusher will stop when it rests against the last nail in the strip (Fig. C).



4. Plug in compressor, turn it on, set the pressure regulator to 90 PSI, and attach one end of the air hose to the compressor and the other end of the air hose (1) to the tool (2) (Fig. D).
5. Test the driving depth using a sample piece of wood before working on the workpiece. If the nails are being driven too deep or not deep enough, adjust the depth adjustment dial to achieve desired penetration, or adjust the regulator on the air supply in order to provide more or less air pressure, as required.

**DANGER!**

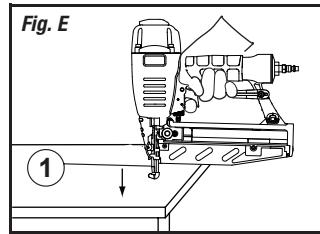
Potential hazard that will result in serious injury or death.

- Disconnect the tool from the compressed air source before loading nails.
- Do not point the tool towards the operator or other people while changing nails.
- Do not hold the tool with the trigger pressed while changing nails. Failure to comply will lead to serious injury or death.

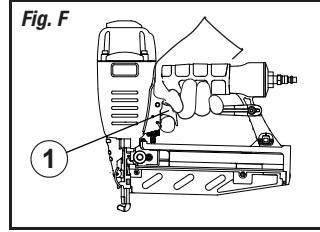
## Firing modes

The Mastercraft® Air-powered Finishing Nailer is equipped with a single sequential actuation mode.

1. Press the safety bracket (1) against the workpiece (Fig. E).



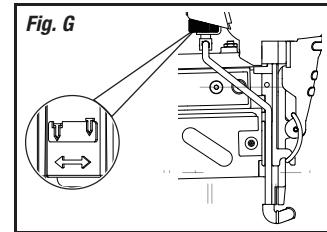
2. To drive the nail, pull the trigger (1) with the safety bracket pressed firmly against the workpiece (Fig. F).



3. If the safety bracket remains pressed, successive nails will fire each time the trigger is pulled.

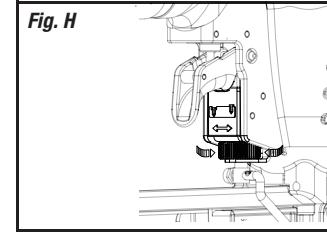
## Nail depth adjustment

The Mastercraft® Air-powered Finishing Nailer has a depth adjustment dial below the trigger to adjust the firing depth of nails. Note: Refer to the graphic imprinted below the trigger and adjust the firing depth accordingly (Fig. G).



### INCREASING NAIL DEPTH

Turn the depth adjustment dial clockwise (with the discharge area of the tool facing away from the operator) (Fig. H).



### DECREASING NAIL DEPTH

Turn the depth adjustment dial counter-clockwise (with the discharge area of the tool facing away from the operator) (Fig. H).

## CAUTION!

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

- Operate the tool with utmost care when connected with the air compressor. Failure to comply may result in moderate injury or damage to equipment.

Note: If the nail is not going deep enough, adjust the pressure of the regulator accordingly.

## Clearing a jammed nail

To clear a jammed nail

- Disconnect the tool from the air supply line.
- Remove the non-jammed nails that are stored in the tool's magazine.
- Push down the release latch and open the door for viewing the jammed nails.
- Use pliers or any appropriate tool to remove the jammed nails.
- Close the door and latch.
- Reload the nails into the tool magazine.
- Reconnect the air supply line to the tool's air inlet.
- Test fire 3 to 5 nails into a piece of scrap wood in order to ensure a proper operation.

## Cold weather operation

When operating any air-powered tool below freezing temperature:

- Verify that the compressor tank has 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.
- Load the nails into the magazine (if required).
- 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 tank at least once per day.

**Note:** When temperatures are below freezing, keep the tools warm using any safe, convenient method.

**Note:** If the nails continue to jam, call 1-800-689-9928.



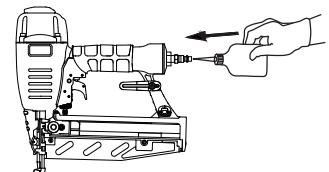
### WARNING!

Potential hazard that will result in serious injury or death.

- Disconnect the tool from the air supply line before clearing a jammed nail. Failure to comply could cause them to be fired out of the tool causing serious injury.
- Do not point the tool towards the operator or other people. Serious personal injury could result if these instructions are not followed.

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

- Lubrication: If the Mastercraft® Air-powered Finishing Nailer 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.



- Air-operated tools must be inspected periodically and worn or broken parts must be replaced to ensure that the tools are 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.
- Keep the magazine of the tool clean and free of any dirt or abrasive particles.



### DANGER!

Potential hazard that will result in serious injury or death.

- 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 death.

## Troubleshooting

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

Disconnect the tool from the air supply before making any adjustments.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
Air leakage at the top of the tool or in the trigger area.	1. O-rings in the trigger valve are damaged. 2. The trigger valve heads are damaged. 3. Trigger valve stem, seal, or O-rings are damaged.	1. Inspect and replace the O-ring. 2. Inspect and replace trigger valve heads. 3. Inspect and replace the trigger valve stem, seal, or O-ring.  Have the tool serviced by a qualified service technician.
Air leakage near the bottom of the tool.	1. The screws are loose. 2. The O-rings or the bumper are worn or damaged.	1. Tighten the screws. 2. Inspect and replace the O-rings or the bumper.  Have the tool serviced by a qualified service technician.
Air leakage between the bottom and the cylinder cap.	1. The screws are loose. 2. The O-rings or the seals are worn or damaged.	1. Tighten the screws. 2. Inspect and replace the O-rings or the seals.  Have the tool serviced by a qualified service technician.
The nails are being driven too deep.	1. The bumper is worn. 2. The air pressure is too high. 3. The depth adjustment knob is not adjusted properly.	1. Replace the bumper. 2. Adjust the air pressure. 3. Adjust the depth setting by turning the depth adjustment knob counter-clockwise (see section "Adjusting nail depth" for more detailed instructions).



### DANGER!

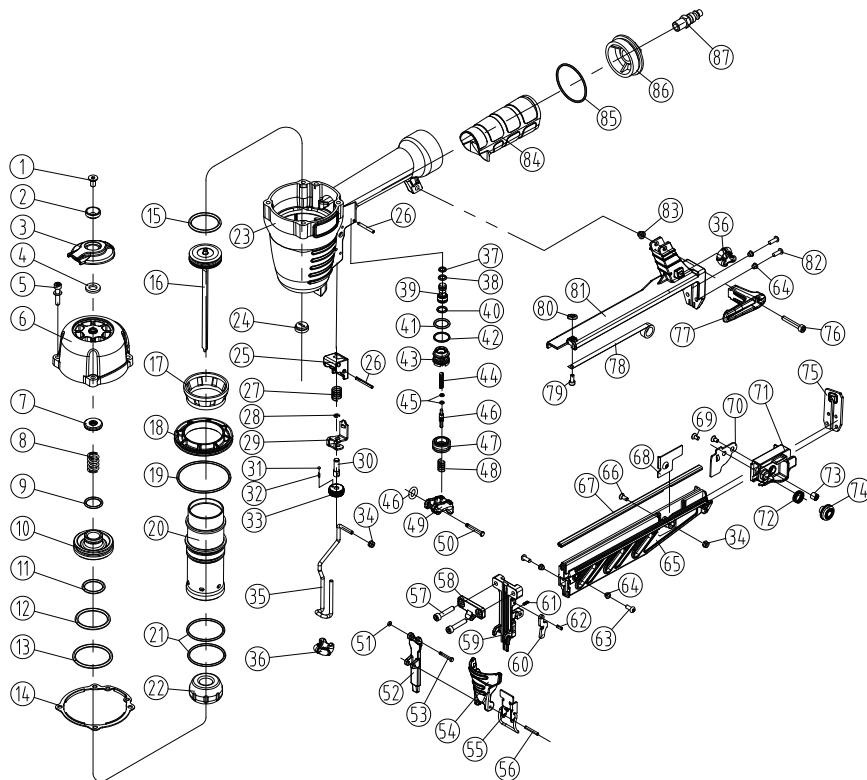
Potential hazard that will result in serious injury or death.

- 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 comply will lead to serious injury or death.
- Repairs must be performed by a qualified service technician only.

PROBLEM	POSSIBLE CAUSES	SOLUTIONS
The tool does not operate properly – it does not drive the nails or operates sluggishly.	1. The air supply is inadequate. 2. Lubrication is inadequate. 3. The O-rings or seals are worn or damaged. 4. The exhaust deflector in the cylinder head is blocked.	1. Verify that the air supply is adequate. 2. Pour up to 6 drops of oil into the air inlet. 3. Inspect and replace O-rings or seals. 4. Replace the damaged internal parts.  Have the tool serviced by a qualified service technician.
The tool skips nails.	1. The bumper is worn or the spring is damaged. 2. There is dirt in the front plate. 3. Nails cannot move freely in the magazine due to dirt or wear. 4. The O-ring on the piston is worn or dry or lubrication is insufficient. 5. The cylinder cover seal is leaking.	1. Replace the bumper or spring. 2. Clean the drive channel on the front plate. 3. Clean the magazine. 4. Replace the O-ring. 5. Replace the sealing washer.  Have the tool serviced by a qualified service technician.
The tool jams.	1. Improper nails are used, or nails are damaged. 2. The driver guide is damaged or worn. 3. The magazine screw is loose. 4. There is dirt in magazine.	1. Use proper nails. (see section "Clearing a jammed nail.") 2. Inspect and replace the driver. 3. Tighten the magazine. 4. Open and clean the magazine.

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

## EXPLODED VIEW



No.	Description	Qty.
1	Screw M6 x 14	1
2	Bushing	1
3	Exhaust cover	1
4	Gasket	1
5	Screw M5 x 25	4
6	Cylinder cap	1
7	Gasket	1
8	Compression spring	1
9	O-ring 22.8 x 2.5	1
10	Valve	1

No.	Description	Qty.
11	O-ring 28.3 x 3	1
12	O-ring 40.3 x 3.5	1
13	O-ring 49.2 x 3.5	1
14	Seal	1
15	O-ring 43.3 x 3.5	1
16	Piston assembly	1
17	Collar	1
18	Limiting plate	1
19	O-ring 66.6 x 2.6	1
20	Cylinder	1

No.	Description	Qty.
21	O-ring 47 x 2.5	2
22	Bumper	1
23	Body	1
24	Joint guide	1
25	Guide piece	1
26	Pin	4
27	Spring	1
28	Split washer	1
29	Upper bracket	1
30	Adjust shaft	1
31	Steel ball	1
32	Compression spring	1
33	Adjusting nut	1
34	Locknut	2
35	Safety Bracket	1
36	Rubber cover	2
37	O-ring 9.5 x 1.9	1
38	O-ring 10.3 x 1.9	1
39	Trigger valve head	1
40	O-ring 12.8 x 1.9	1
41	O-ring 20.3 x 2.5	1
42	O-ring 20.3 x 1.5	1
43	Trigger valve guide	1
44	Compression spring	1
45	O-ring 5.5 x 1.5	3
46	Trigger valve stem	1
47	Trigger valve case	1
48	Compression spring	1
49	Trigger	1
50	Pin	1
51	Washer	1
52	Door	1
53	Pin	1
54	Latch cover	1

No.	Description	Qty.
55	Latch	1
56	Pin	1
57	Screw M5 x 25	2
58	Plate	1
59	Driver guide	1
60	Top plate	1
61	Compression spring	1
62	Pin	1
63	Screw M4 x 10	2
64	Bushing	4
65	Lower magazine	1
66	Screw M4 x 10	1
67	Rail	1
68	Nail stopper	1
69	Screw M4 x 8	2
70	Feeder shoe	1
71	Pusher guide	1
72	Compression spring	1
73	Thread insert	1
74	Lock button	1
75	Magazine plate	1
76	Screw M5 x 35	1
77	Reversible belt hook	1
78	Coil spring	1
79	Screw M4 x 10	1
80	Nut M4	1
81	Upper magazine	1
82	Screw M4 x 12	2
83	Nut M5	1
84	Grip	1
85	O-ring 48.8 x 2.5	1
86	End cap	1
87	Air plug	1

## PARTS LIST

## 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, abrasives or 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