

## C-1664FN 16 Ga. Finish Nailer

MANUAL/WARNING:

### IMPORTANT PLEASE READ BEFORE USING TOOL

Please read the following operating instructions manual. Refer to this manual for safety, adjustment and trouble shooting instructions. If you have any further questions please contact your distributor.





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# TOOL SPECIFICATIONS

MODEL OF TOOL..... C-1664FN

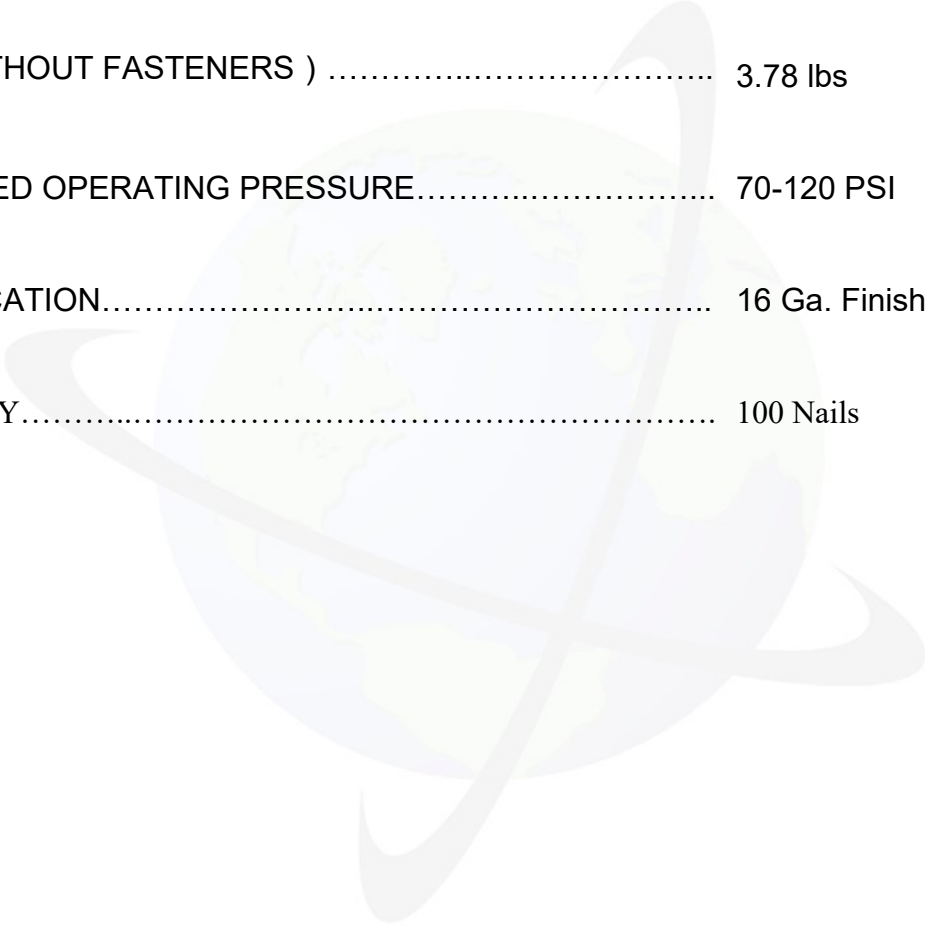
DIMENSIONS (L x H x W) approx..... 11.77" x 2.9" x 11.06"

WEIGHT ( WITHOUT FASTENERS ) ..... 3.78 lbs

RECOMMENDED OPERATING PRESSURE..... 70-120 PSI

NAIL SPECIFICATION..... 16 Ga. Finish Nails, up to 2-1/2"

NAIL CAPACITY..... 100 Nails





## SAFETY INSTRUCTIONS

**Use safety glasses:** all persons in the work area must always wear safety glasses in order to prevent eye injuries.

**Ear protection** must also be worn to prevent a possible hearing loss.

**Use clean dry regulated compressed air** at the recommended pressure (given in the technical data).

**Use only fasteners** according to manufactures technical data.

**Never** exceed the maximum recommended operating pressure of this tool.

**Never** use oxygen, carbon dioxide, combustible gases or any bottled gas as a power source.

**Always disconnect** the air supply when doing any tool maintenance, clearing a jam, moving location, leaving the work area or passing the tool.

**Regularly inspect** the safety, the trigger and the springs for free unhindered movement, never use a tool that requires servicing.

**Connect** the male free flow nipple to the tool side of the air line so that the tool is depressurized when disconnected from the hose.

**Never** load fasteners with the trigger safety depressed, it will result in a fastener being fired.

**Never** carry the tool with the safety depressed, if bumped it will result in a fastener being fired.

**Never** point the tool at yourself or at any one else.

**Never** fire a fastener into a hard brittle surface such as concrete, steel or tiles.

**Do not drive** fasteners too close to an edge or at too great an angle as the fastener may fly free or ricochet causing personal injury and damage.

**Always** ensure that the work area is amply lit so as to avoid possible accidents.

**Never** remove, tamper with or otherwise cause the tools operating controls to become inoperable.



## COMPRESSED AIR SYSTEM

Proper use of the fastener driving tool requires an adequate quantity of clean dry compressed air. All compressed air contains moisture and other contaminants detrimental to the tool and so it is recommended to use an in line lubricator as close to the tool as possible (within 15 feet (4.5m)). The lubricator should be well maintained so as to ensure optimum performance and power. All parts of the air supply system should be clean and contaminant free.

The tool shall only be connected to a compressed air line where the maximum allowable pressure cannot be exceeded by a factor of more than 10%, which can for example be achieved by a pressure reduction valve which includes a downstream safety valve.

A male free flow coupling should be connected to the tool side of the system with the female coupling providing a seal to prevent air loss from the compressor tank upon disconnection. Never connect a female disconnect coupling to the tool side as this provides a seal which prevents loss of compressed air from the air tank and if connected to the tool it could seal a charge of air in the tool which could lead to an unintentional actuation. Do not mount a swivel connector in the air supply line.

Different work pieces will require different operating pressures, the harder the wood the greater the pressure required. Remember always use the lowest pressure required for the work process at hand, this being to prevent unnecessarily high noise levels, increased wear and resulting failures.

***WARNING*** Keep hands and body away from the discharge area of the tool when connecting the air supply and always disconnect the tool when servicing, adjusting, cleaning and when the tool is not in use.



# OPERATING INSTRUCTIONS

## Loading fasteners

Press the latch mechanism and open magazine unit.  
Load fasteners into the magazine.  
Close the magazine.

## Type of actuating and trigger system

**Dual action safety / contact safety:** it will be necessary to activate the contact safety mechanism as well as the trigger in order to fire a fastener. By keeping the trigger activated and activating the contact safety a fastener is fired, this allows for high speed firing, also known as bump firing.

## Operating procedures

**Protective equipment:** before using any tool always ensure that you and those in the work area are using the appropriate working equipment, including safety goggles.

**Firing a fastener:** to fire a fastener hold the nose of the tool against the work piece to depress the contact safety then pull the trigger to fire a fastener.

**Exhaust air:** each time a fastener is driven a blast of air is exhausted from the top front area of the tool, keep your face clear of this.

**Depth control:** check whether the fastener has been driven into the work piece in accordance with requirements, the driven depth can be controlled by adjusting air pressure.

Always use the lowest possible air pressure for the following reasons,

- save energy
- less noise will be produced
- a reduction in fastener driving tool wear will be achieved

Any defective or improperly functioning tool must be immediately disconnected from the compressed air supply and passed to a specialist for inspection.



## PRECAUTIONARY MEASURES

### *'Respect your tool and never horseplay'*

- Always assume that the tool contains fasteners.
- Remove finger from the trigger when not driving fasteners. Never carry the tool with your finger on the trigger, as the tool will fire a fastener if the safety is bumped.
- Keep tool pointed in a safe direction at all times, never pointing it toward yourself or others whether it contains fasteners or not.
- Never attempt to drive a fastener into material that is too hard, or at too steep an angle or near the edge of the work piece, the fastener can ricochet causing personal injury. Remember, always hold nose right up to and firmly against the work material.
- Disconnect the tool from the air supply before performing any maintenance, leaving the work area, moving to another location, or handing the tool to another person.
- Always disconnect the tool before removing any jams. C-1664FN has a quick release nose design for easy extraction of jammed nail.
- Carefully check the tool for proper operation of trigger and safety mechanism. Do not use the tool unless the trigger and safety mechanism and any other of the operating control are functional. Do not use the tool if the tool is leaking air or needs repair.
- Written approval of the tool manufacturer must be obtained before making any modifications to the tool.



## MAINTENANCE

### *'Clean and inspect your tool every time you use it'*

The employer and tool 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 shall repair the tool.

**CAUTION** Always remove the air supply before commencing any cleaning or inspection.

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.

Always ensure that all of the screws are kept tight as loose screws can cause injury or can damage the tool.

Tools requiring lubricant: If the tool is used without an in line lubricant then be sure to put in about 3 drops of lubricant at the start of each workday and 3 drops for every 1,000 fasteners fired there after.

Tools shall be repaired or equipped only with parts or accessories that are supplied or recommended by the tool manufacturer / supplier.

**NEVER** use a tool that requires repair work.





# TROUBLE SHOOTING

Failure	Possible causes	Check Method	Counter measures
No nail is ejected	Incorrect nails are loaded. Abnormal nails are loaded (large-sized head ,bent incorrectly chained, etc.)	Check if recommended nails are loaded	Use recommended nails Remove abnormal nails and load normal nails
	Magazine Unit Push lever Defective nail feeder (either bent or broken) Defective feed spring (worn or broken)	Check for abnormalities of nail feeding portion (deflected, worn, deformed broken)	Repair deformed parts Replace defective parts
	Narrow or wide width of the Magazine groove Worn nail head supporting portion of Magazine Abnormal nail guide groove of Blade Guide (deflected, deformed or broken)	Load nails and confirm that they will move smoothly	
No nail is ejected	Adhesive fragment or wood dust sticking on the Magazine or nail feeder		Remove adhesive fragment or wood dust
	Push lever	Check push lever movement	Replace
	[Output unit :Piston or driver] Air pressure too low	Carry out idle driving and check the return of the driver blade	Check compressor
	Worn piston ring		Replace piston ring
	Defective piston bumper		Replace the piston bumper
	Defective bumper piece (defective, worn or broken)		Replace the piece
	Defective O-ring (disconnected, deformed or broken)		Reassamble or replace the o-ring
	Defective driver blade, (deflected, deformed or broken)	Replace	
Defect inside cylinder (adhesive or wood fragment, worn)	Check if the nailer drives at minimum operating pressure	Remove adhesive fragment or wood dust	



## TROUBLE SHOOTING

Failure	Possible causes	Check Method	Counter measures
The driven nail is bent	Nails are inaccurately fed into the Blade Guide Incorrect nails are loaded	Refer to item above	Refer to item above
	Worn driver blade	Check if the driver blade is extremely worn or not	Replace the driver blade
	The wood is too hard	Check if the nails bend on softer wood or not	Stop using the tool
The driven nails do not fully penetrate the work piece (heads protrude)	The wood is too hard	-	Stop using the tool
	Air pressure too low	-	Adjust the air pressure
	Worn or broken driver blade	Carry out idle driving and check if the driver blade protrudes from the blade guide nose	If the driver blade does not protrude from the blade guide replace
	Incorrect driving depth adjustment	Check if the tip of the driver blade is excessively worn or not	Adjust the guide plate to the appropriate position.
	Defective piston ring (worn or broken) Defective inner surface of cylinder (worn or rough)	Disassemble the output unit and check the inside and outside surfaces of the piston ring and cylinder	Replace the defective parts
Nails clog within the ejecting gate	Nails are inaccurately fed into the blade guide Incorrect nails are loaded	Refer to first item	Refer to first item Use designated nails
	Worn tip of the driver blade	Carry out idle driving and check if blade tip is worn or not	Replace
	Worn guide groove of the blade guide	Check the wear of the blade guide	Replace
	Work piece material is too hard		Stop using the tool





ITEM	PARTS NO	PARTS NAME	QTY	ITEM	PARTS NO	PARTS NAME	QTY
101	2040100-03030-0	BOLT ASSY	4	303	11346-0081302-1	END CAP	1
102	1137V-0464701-1	DEFLECTOR BOLT(3M2353)	1	304	1135V-0000007-1	AIR PLUG	1
103	11371-0084701-1	DEFLECTOR	1	305	1132L-0010001-1	AIR PLUG CAP	1
104	1135G-0464701-1	RUBBER PAD	1	306	1133D-0784702-1	SPRING RETAINER	1
105	2040104-03010-0	HEX.SOC.HD.SCREW	1	307	2041106-02050-0	O - RING	1
106	11369-0081307-1	CAP	1	401	2040100-03070-2	BOLT ASSY	2
107*	11370-0080002-1	SEAL	1	402	11353-0084704-1	DRIVER GUIDE COVER B	1
108*	2041102-03030-0	O - RING	1	403	1135H-0790001-1	PU RETAINER	1
109	11360-0080001-3	COMPRESSION SPRING	1	404	11352-0084705-1	DRIVER GUIDE COVER A	1
110	11368-0080004-1	HD VALVE PISTON	1	405	11324-0084701-1	FIXED PIN	1
111*	2041109-05020-0	O - RING	1	406	11303-0084709-1	DRIVER GUIDE	1
112*	11399-0080001-1	COLLAR	1	407	11313-0264701-1	LOCK SPRING	1
113*	1132M-0080001-1	PACKING	1	408	1135Y-0084701-1	LATCH	1
114*	11350-0080001-1	PISTON RING	1	409	1138W-0084701-1	HALF ROUND HD.HEX.BOLT	1
115	2041105-04030-0	O - RING	1	410	2040302-23010-0	E - RING	1
116*	11204-0080036-1	DRIVER UNIT	1	411*	11372-0080001-1	SPRING	1
117	1131E-0080001-2	CYLINDER PRESS RING	1	412	1134L-0084701-1	BRACKET	1
118	2041109-06010-0	O - RING	1	413	2040100-03090-2	BOLT ASSY	2
119	11320-0080012-1	CYLINDER	1	414	2040500-02010-0	LOCK NUT	4
120	11322-0080001-1	CYLINDER RING	1	415	1134K-0084702-1	SPRING	1
121*	11327-0084701-1	BUMPER	1	416	11314-0084702-1	STAPLERS BRACKET	1
122	11388-0084706-1	DRIVER GUIDE	1	417	1132X-0084703-1	MAGAZINE B	1
123	1133M-0084702-1	SEAL GASKET	1	418	2040103-02060-0	COUNTER SUNK SCREW	1
201	2041104-02020-0	O - RING	1	419	11363-0084706-1	PUSHER	1
202	2041104-02030-0	O - RING	1	420	1132W-0084703-1	MAGAZINE A	1
203	11374-0084701-1	PLUNGER CAP	1	421	11396-0080002-1	STEEL CHANNEL	2
204	11335-0250001-1	VALVE PLUNGER	1	422	11323-0084721-1	POSITIONING SHEET	1
205	2041100-01070-0	O - RING	2	423	11390-0084702-1	PROTECTING HOOD COVER	1
206	2041100-01030-0	O - RING	1	424	2040100-02090-0	BOLT ASSY	2
207	11376-0254701-1	SPRING	1	425	2040101-03080-0	HEX.SOC.HD.BOLT	1
208	11375-0084701-1	PLUNGER	1	426	2040202-03010-0	FLAT WASHER	1
209	2041102-01030-0	O - RING	2	427	2040500-03020-0	LOCK NUT	1
210	11373-0084701-1	TRIGGER VALVE HEAD	1	428	11338-0084703-1	SAFETY GUIDE	1
211	2040400-05060-0	SPRING PIN	2	429	11337-0084701-1	COMPRESSION SPRING 5	1
212	2040400-05160-0	SPRING PIN	2	430	1131C-0664701-1	RING	1
213	2040400-05110-0	SPRING PIN	1	431	11332-0084701-1	SAFETY B	1
216	11224-0834701-2	TRIGGER UNIT	1	432	11393-0264701-2	ADJUST AXIE	1
217	11318-0374701-1	TRIGGER PIVOT PIN	1	433	11331-0084702-2	SAFETY A	1
218	1131D-0460001-1	URETHANE RETAINER	1	434*	11339-0084701-1	PROTECTIVE CASING	1
219	11376-0370001-1	SPRING	1	435	1136H-0084701-1	FIXED SUPPORT	1
301	11230-008E801-1	GUN BODY UNIT	1	436	2040103-02030-0	COUNTER SUNK SCREW	1
302	2041109-05050-0	O - RING	1		7USAX-3008001-1	O - RING KIT	1



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