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## WARRANTY

READ BEFORE USING TOOL.
If warranty terms are not acceptable, return at once, unused, for refund.

**What is covered:** This warranty covers any defects in material or workmanship.

**How Long:** This Warranty lasts ONE (1) YEAR from the date of original retail purchase with the exception of rubber rings, seals, springs, bumpers and driver blades which are covered for ninety (90) days from the date of original retail purchase. Any replacement part will be warranted for the balance of the original warranty period.

**What DUO-FAST will do:** DUO-FAST will, within the applicable warranty period, replace or repair at DUO-FAST’s option, the tool without any cost for parts or labor. All tools must be accompanied by their original dated sales receipt.

**What is not covered:** This Warranty does not cover damage by accident, misuse, abuse, modification, repairs necessitated by service attempted by other than a DUO-FAST authorized service technician, or because of failure to follow the recommended tool use and maintenance instructions detailed in the Safety, Operation, & Instruction Manual. THIS WARRANTY IS THE EXCLUSIVE REMEDY AGAINST DUO-FAST and no other remedy (including but not limited to incidental or consequential damages for injury to person or property, lost profits, lost sales or other incidental or consequential loss) shall be available. THIS WARRANTY IS IN LIEU OF ANY OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Any representations or promises inconsistent with or in addition to this warranty are unauthorized and shall not be binding upon DUO-FAST.

**How to get service:**
To obtain repair or replacement under this Warranty the tool and copy of the original dated sales receipt, must be returned, freight prepaid, to a Factory Authorized Warranty & Service Partner. Consult your local Distributor/Dealer or call, toll free, 1-888-DUO-FAST (386-3278) for your nearest Warranty & Service Partner.
OPERATOR SAFETY INSTRUCTIONS FOR TOOL USE

DO NOT:
• Use the tool if uncertain of safe operation. BE SAFE, NOT SORRY. SEEK TRAINING.

DO:
• Read the entire manual before using the tool.
• Read the cycle information label on your tool to determine how it operates.

DO NOT:
• Point the tool at yourself or anyone else.
• Operate the tool while working above a co-worker.
DEATH OR SERIOUS INJURY CAN OCCUR.

DO:
• Wear eye protection that meets ANSI Z87.1 requirements.
• Wear eye protection where tools are being operated.
FREE FLIGHT FASTENERS WILL CAUSE PERMANENT EYE INJURY.

DO NOT:
• Drive fastener close to edge of work piece.
• Drive fasteners unless tool is placed firmly against the work piece.
• Drive over another driven fastener.
• Use fasteners not meeting DUO-FAST specifications.

DO:
• Be aware that ricocheting fasteners can cause permanent eye injury.

DO NOT:
• Use high pressure bottle or cylinder.
• Use flammable gases.
• Use an air source whose potential exceeds 200 PSIG.
• Operate tool where flammable gases, fuels or explosive materials are present.
A driving fastener can spark, creating an ignition source.
EXPLOSION WILL OCCUR.

DO:
• Use air compressors that meet ANSI B19.3 safety standards.
• Use pressure regulator, filter and oiler.
• Use air supply hose rated for 150 PSIG minimum.
• Check that air source is set no higher than maximum rating of the tool.
DO:
- Understand that standard, rapid and auto cycle tools will drive fasteners when the work contact element is bumped if the trigger is held depressed.

DO NOT:
- Carry the tool with your finger on the trigger.
DEATH OR SERIOUS INJURY CAN OCCUR.

DO:
- Wear hearing protection and hard hats in environments that require their use.

DO NOT:
- Assume accidents happen only to other people.

DO:
- Check the safety system to see that it functions properly.

DO NOT:
- Use a tool with a work contact element that: sticks or binds, is damaged or has been tampered with.

DO:
- Disconnect the tool from the air source when: loading and unloading, tool is unattended, performing service or maintenance, clearing a jam and/or relocating the tool.
- Check to see if the tool is loaded. Always assume it is.

DO NOT:
- Load or unload the tool with your finger on the trigger.

DO:
- Respect the tool. It can be dangerous.
DO NOT:
• Engage in horseplay.

DO:
• Have maintenance and repair work done by a qualified service person using DUO-FAST authorized parts.

DO NOT:
• Modify the tool without approval of DUO-FAST.
• Tamper with or cause the work contact element to become inoperative.
• Install a female quick-disconnect on the tool. This could cause air pressure to be retained in the tool when disconnected from the air hose. The tool could still drive a fastener.

TOOL USE INSTRUCTIONS

Read safety instructions before using the tool

AIR SYSTEM REQUIREMENTS
• Inadequate air supplied to your tool can reduce air flow and air pressure that can cause some of the following tool problems:
  - Staircased fasteners
  - Skipping a fastener
  - Incompletely driven fastener
  - Slow tool cycle

AIR HOSE AND FITTINGS
• The air supply hose must have a minimum working pressure of 150 PSIG or 150% of the maximum pressure, whichever is higher.
• Use a 5/16” I.D. air hose for up to 25’ long. Use a 1/2” hose for up to 100’ long.
• The tool’s air inlet will accept 1/4” NPT quick disconnect fitting.
• The male fitting must always be put on the tool. Snap-off coupler must always be on the hose.

LOCKOUT MECHANISM

The lockout mechanism found on the CN nailer was designed with the user in mind. This devise will protect the work surface from blank shots caused by the user unknowingly using a tool with the magazine empty. The lockout also serves as a notification to reload the tool.

The lockout stops the work contact element from activating when there are four to five nails, depending on diameter, left in the magazine. The tool remains inoperative until a new strip of nails is loaded into the magazine.

NOTE: Make sure that the magazine is completely empty of all fasteners before loading a different fastener. The four or five fasteners left in the magazine may not be specified for the intended application.
UNDERSTANDING TOOL CYCLING SYSTEMS

1. Check the cycle information label to determine what system is installed on the tool. You should understand the actuation system on your tool prior to use, and ensure that it is the most appropriate system for your use.

2. DUO-FAST has 6 systems. All are not available for every tool type. See your DUO-FAST Sales Service Center for details on these options.

3. The 6 systems are:
   - SINGLE SEQUENTIAL CYCLE (BLUE LABEL) - To actuate the tool, the work contact element must be activated first, then the trigger. This sequence must be repeated for every actuation.
   - SEQUENTIAL CYCLE (GREEN LABEL) - To actuate the tool, the work contact element must be activated first, then the trigger. The trigger can be released and re-activated to continuously actuate the tool as long as the work contact element is held activated.
   - DUAL TRIGGER CYCLE (GRAY LABEL) - To actuate the tool, place tool on work piece where you want to drive fastener, depress rear trigger, then depress front trigger. NOTE: Tool WILL actuate if force is applied to both triggers in any sequence.
   - STANDARD CYCLE (BLACK LABEL) - To actuate the tool, two (2) methods can be used:
     - Trigger Trip - As in the sequential cycle system the work contact element is activated first. Then the trigger can be repeatedly activated for multiple actuations.
     - Touch Trip - The trigger is activated first, and then the work contact element can be repeatedly activated for multiple actuations.
   - WARNING RAPID CYCLE (ORANGE LABEL) - The tool has been modified to operate as a standard cycle tool, but at a much faster rate. This type of tool is intended only for experienced operators.
   - DANGER AUTO CYCLE (RED LABEL) - The tool has been modified to cycle continuously when both the trigger and work contact element are activated. The tool will auto-cycle when actuated either trigger or work contact element first. This type of tool is intended for a special application by experienced operators only.

CAUTION: A sequential actuation system may reduce the risk of personal injury by eliminating the ability to "touch trip" the tool (activating the work contact element while holding the trigger depressed). With a sequential actuation system you will not accidentally discharge a fastener if you bump the work contact element against yourself or a co-worker while the trigger is depressed. The sequential actuation systems are typically preferred where precision of fastener location is more important than speed of operation or where sequential actuation does not impact your intended use of the tool.

OPERATING AIR PRESSURE

- The correct operating air pressure is the lowest that will do the job. Using the tool at a higher air pressure than required wastes air, and can cause the tool to generate higher noise level than necessary. Protect your hearing. Start at 80 PSIG and adjust the air pressure up or down as required. OPERATING AIR PRESSURE MUST NOT EXCEED THE MAXIMUM PRESSURE RATING FOR THE TOOL.
- Never Use: High pressure bottle or cylinder, flammable gases or any air source that exceeds 200 PSIG.

EXPLOSION WILL OCCUR.

FILTER/REGULATOR/PRESSURE GAUGE/LUBRICATOR

- A filter, pressure regulator and lubricator should be included in the air system for proper tool operation.
- FILTER: A filter will prevent excessive wear and part corrosion by trapping pipe scale, dirt, solidified lubricants, oil, moisture and other components. Moisture removal prevents frozen air lines when operating at low temperatures.
- REGULATOR: The most important requirement for proper tool operation is the correct air pressure for the job. If the tool is overpowered, tool wear is increased. If the tool is under-powered, it will not perform satisfactorily. A regulator, positioned close to the tool, assures proper and economical tool operation.
- PRESSURE GAUGE: The use of the pressure gauge is very important, as it indicates the air pressure at which the tool is operating.
- LUBRICATOR: The heavy-duty lubricants used in routine maintenance will not remain in the tool indefinitely. A line lubricator that injects an oil mist into the tool's air supply is essential. Refer to "Air Line Lubricants" for type of lubricants to use.
SERVICE AND REPAIR
Except as specifically described in other sections of this manual, this tool must NOT be disassembled, serviced, repaired or reassembled by anyone except qualified DUO-FAST service personnel. Incorrect servicing, repairs and assembly of this tool may result in serious injury to the user and/or damage to the tool. Your DUO-FAST Distributor is ready to help with any service or repair problems you may have.

For the DUO-FAST Warranty & Service Partner in your area, call: 1-888-DUO-FAST (386-3278).

TOOL MAINTENANCE
Refer to “Operator Safety Instructions” section of this manual before servicing the tool.

VISUAL INSPECTION
Daily visual inspection of the tool should be made before attaching air supply hose.

• Check for:
  • Smooth trigger and work contact element movement.
  • All screws are tight.
  • Excessively worn or cracked handle.
  • Damaged or other excessively worn parts.

• NEVER USE A TOOL WITH DAMAGED OR MISSING PARTS.

CLEANING
The external tool parts should be cleaned daily as follows:
• Disconnect air supply hose from tool.
• Remove fasteners.
• Wipe clean with rag.
Clean tool exterior with mild solvent. Make sure all excess solvent has been wiped off. Never completely immerse tool in any solvents, especially highly volatile solvents such as gasoline, toluene, benzene, etc.. Immersion into solvent or the use of volatile solvents for cleaning can damage the O-rings which will cause tool to malfunction.

NOTE: It is extremely important that all dirt and foreign material be removed from around the work contact element and its spring. Any dirt which prevents the movement of the work contact element will cause the tool to be unsafe.

LUBRICATION
The following lubricants are recommended for the air line and tool:
• Above 32 degrees Fahrenheit, use a non-detergent S.A.E. No. 20 weight oil.
• Below 32 degrees Fahrenheit, use a mixture of one part non-detergent S.A.E. No. 10 weight oil to three parts ethylene glycol automotive antifreeze, certified as being compatible for use with aluminum. It should not contain any “anti-leak” additives.

• Placing a few drops of non-detergent oil in the tool air inlet before each use is beneficial. It is intended to supplement an air line lubricator, not to replace its use.
• Never use detergent oils. Detergent-type oils can deteriorate O-rings in the tool which can cause a tool to malfunction.
• Clean work contact element, then apply a thin coating of light weight grease to the slide guides on the work contact element.
COLD WEATHER PRECAUTIONS

FOLLOW THE RECOMMENDATIONS BELOW WHEN USING THE TOOL AT TEMPERATURES BELOW FREEZING:

- Keep tool as warm as possible until you are ready to use it.
- Remove fasteners from tool.
- Reduce air pressure to below 80 PSIG (pounds per square inch).
- Cycle tool to allow oil and ethylene glycol to lubricate O-rings.
- Increase air pressure to minimum required by tool.
- Load fasteners and adjust air pressure until fasteners are driven properly.

OTHER RECOMMENDATIONS FOR USING THE TOOL IN COLD TEMPERATURES:

- Fill air line lubricators with ethylene glycol automotive-type antifreeze (non-sealant type).
- Lubricate tool at least once a day with a S.A.E. No. 10 non-detergent oil.
- Drain moisture from air compressor tank daily.

MALFUNCTIONS

Be alert for tool problems. A malfunctioning tool must be immediately withdrawn from use and not used again until it has been repaired by a qualified service representative.

Operating a tool with the following malfunctions is dangerous and unsafe. The list is representative only, not all inclusive.

- Work contact element that sticks or binds along its vertical path of travel.
- Trigger sticks or binds.
- Air leaks from the tool. Some air leaks affect safety. Others do not. Be safe and assume all air leaks affect safety. Stop using the tool immediately and have it repaired.

TROUBLESHOOTING

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>CORRECTIVE ACTION</th>
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<tr>
<td>Fasteners will not drive completely into wood.</td>
<td>Increase air pressure (do not exceed 120 psi).</td>
</tr>
<tr>
<td>Fasteners penetrate properly during normal</td>
<td>Increase air flow to tool - use larger air lines (3/8 inch ID minimum).</td>
</tr>
<tr>
<td>operation, but won’t drive fully at faster speeds.</td>
<td></td>
</tr>
<tr>
<td>Fasteners drive too deeply into wood.</td>
<td>Reduce air pressure.</td>
</tr>
<tr>
<td>Fastener jams in nose of tool.</td>
<td><strong>STAPLERS:</strong> Open magazine and clear jammed fastener.</td>
</tr>
<tr>
<td></td>
<td><strong>NAILERS:</strong> Push driver blade back into tool. Then clear jammed nail out of nose.</td>
</tr>
<tr>
<td>Tool skips during operation - no fasteners are driven from time-to-time.</td>
<td>Check magazine for proper fasteners. Magazine pusher should slide freely. Clean as needed to remove debris. Make sure correct fasteners are being used. Use fasteners that meet DUO-FAST specifications only. Increase air flow to tool - use larger air lines (3/8 ID minimum).</td>
</tr>
<tr>
<td>Tool operates, but no fasteners are driven.</td>
<td>Check magazine for debris or jammed fastener.</td>
</tr>
<tr>
<td></td>
<td>Check for correct fastener in tool.</td>
</tr>
<tr>
<td></td>
<td>Check air pressure, make sure suggested air pressure is used for full cycle of tool.</td>
</tr>
<tr>
<td></td>
<td>Look for damage to the pusher and/or the pusher spring.</td>
</tr>
<tr>
<td>Air leaks at cap when tool is connected to air.</td>
<td>Tighten cap screws.</td>
</tr>
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TOOL LOADING

Top Load Design without Pusher Lock:

1) Hold the tool upright and disconnect the air supply.

2) Insert nails through the slot in the top of the magazine.

3) Retract the pusher to engage rear of nails.

4) Hold the tool upright and connect the air supply hose.
Top Load Design with Pusher Lock:

1) Hold the tool upright and disconnect the air supply.

2) Pull back on nail pusher in magazine until it locks in the rear position.

3) One at a time, drop strips of nails through slot in top of magazine.

4) While pulling back on nail pusher, release locking lever (located on the rear of the magazine) with thumb.

5) Holding onto the nail pusher gently allow it to move forward to engage the nail strip in the magazine. 
   NOTE: Make sure that the head of the nail is under the pusher. Failure to do so may result in misfeeding.

!WARNING!: Failure to release the nail pusher may result in improperly driven nails or jamming. Be sure to release the nail pusher before operating the tool!

7) Hold the tool upright and connect the air supply hose.
Side Load Design:

1) Hold the tool upright and disconnect the air supply.

2) Unlatch magazine and slide rearward.

3) Insert fasteners and slide magazine forward to latch.

4) Hold the tool upright and connect the air supply.
Rear Load Design:

1) Hold the tool upright and disconnect the air supply.

2) Insert strip of fasteners through the slot, in the rear of the magazine and slide strip forward.

3) Retract the pusher to the rear of the fastener strip.

4) Hold the tool upright and connect the air supply.
Bottom Load Design:

1) Hold the tool upright and disconnect the air supply.

2) Tilt tool so bottom faces up at an angle, unlatch magazine and slide rearward.

3) Insert fasteners and slide magazine forward making sure it latches securely.

4) Hold the tool upright and connect the air supply.
Cannister Load Design:

1) Hold the tool upright and disconnect the air supply.

2) Unlatch feed pawl access gate and swing magazine cover open.

3) Remove adhesive strip from the nails and place the coil into the magazine. Feed the nails over the feed pawls until the first nail is in the driver blade raceway.

4) Close the magazine cover and then the gate making sure gate is latched securely.

5) Hold the tool upright and connect the air supply.