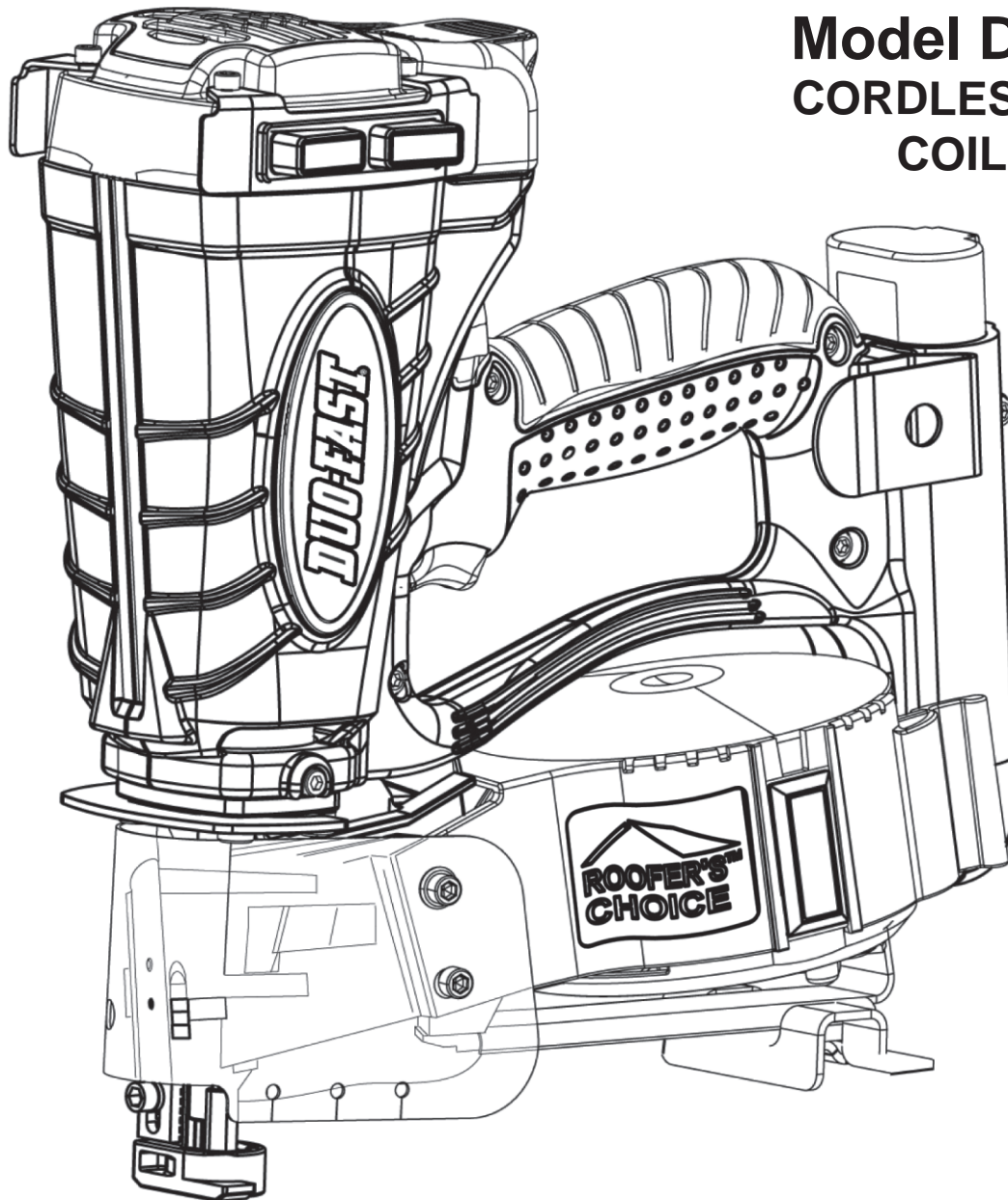


DUO-FAST®

Part No. 904600

Model DFCR175C CORDLESS ROOFING COIL NAILER



**IMPORANT!
DO NOT DESTROY**

It is the customer's responsibility to have all operators and service personnel read and understand this manual.

OPERATING MANUAL

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The battery charger system meets all safety requirements for power tools.



DUO-FAST is a trademark



An Illinois Tool Works Company
955 National Parkway
Suite 95500
Schaumburg, IL 60173
www.duofastconstruction.com

Duo-Fast® Power Nailers are made in the U.S.A.

Duo-Fast® is a member of:



Introduction and Warranty

***DUO-FAST* Cordless Roofing Nailer Operating Manual**

This manual is intended to acquaint you with the **Duo-Fast**® Cordless Roofing Nailer. Unlike other power fastening tools, the Cordless Roofing Nailer is powered by an internal combustion linear motor. In simpler terms, your Cordless Roofing Nailer is powered by a motor similar to the one that powers an automobile. The Cordless Roofing Nailer ignites a fuel and air mixture to produce the energy to drive the motor, which in turn drives the fastener. The Cordless Roofing Nailer is totally self-contained. It carries its own fuel supply and battery, along with a supply of fasteners. For ease of use, this manual is divided into sections (see Contents). Each section of the manual is written with you, the tool operator, in mind. We have left out many of the technical terms so that you can easily understand how to get the maximum performance from your Cordless Roofing Nailer, and how to avoid damaging the tool or injuring yourself. But, to accomplish this, we need you to do two things:

- 1. READ THE MANUAL FROM COVER TO COVER BEFORE USING THE TOOL.**
- 2. FOLLOW ALL INSTRUCTIONS IN THE MANUAL.**

The Cordless Roofing Nailer should be handled like other power fastening tools that you use. Like most tools, when used improperly injury could result. If you are going to allow others to use the Cordless Roofing Nailer, it is your responsibility to make sure that they also read and comply with the instructions in this manual before attempting to operate the tool. Should you have questions about the Cordless Roofing Nailer, or wish to obtain additional copies of this manual, please contact your **Duo-Fast**® representative. The space below is provided so that you may record your representative's name, address, and telephone number.

For the nearest *Duo-Fast*® representative call 1-888-631-2020.

Name

Address

City

State

Zip

Telephone Number

***Duo-Fast*® Cordless Warranty and Limitations**

Duo-Fast® warranties that new Cordless power fastening tools, parts and accessories will be free from defects in material and workmanship for the period shown below, after the date of delivery to the original user.

ONE-YEAR LIMITED WARRANTY

A one-year warranty will apply to all parts, except those listed below as normal wearing parts, or parts which are specifically covered by an extended warranty.

FIVE-YEAR EXTENDED LIMITED WARRANTY

A five-year warranty will apply to all molded nylon parts:

- Cap and Grille
- Handle Halves and Actuator
- Trigger

90-DAY LIMITED WARRANTY

A 90-day warranty applies to the following parts, which are considered normal wear parts:

- Bumper
- Driver Blades
- Seal Rings

WARRANTY STATEMENT

This warranty is limited to tools sold and service requested in the United States. To obtain information on warranty service in the United States, refer to the Service Center listing that was provided with your tool.

Duo-Fast's sole liability hereunder will be to replace any part or accessory which proves to be defective within the specific time period. Any replacement part or accessory provided in accordance with this warranty will carry a warranty for the balance of the period of warranty applicable to the part it replaces. This warranty does not apply to part replacement required due to normal wear.

This warranty is void on any tool which has been subjected to misuse, abuse, accidental or intentional damage, use with fasteners, fuel, batteries, or battery chargers not meeting **Duo-Fast**® specification, size, or quality, improperly maintained, repaired with other than genuine **Duo-Fast**® replacement parts, damaged in transit or handling, or which, in Duo-Fast's opinion, has been altered or repaired in a way that affects or detracts from the performance of the tool.

Duo-Fast® MAKES NO WARRANTY, EXPRESSED OR IMPLIED, RELATING TO MERCHANTABILITY, FITNESS, OR OTHERWISE, EXCEPT AS STATED ABOVE, and Duo-Fast's liability AS STATED ABOVE AND AS ASSUMED ABOVE is in lieu of all other warranties arising out of, or in connection with, the use and performance of the tool, except to the extent otherwise provided by applicable law. **Duo-Fast**® SHALL IN NO EVENT BE LIABLE FOR ANY DIRECT, INDIRECT, OR CONSEQUENTIAL DAMAGES, INCLUDING, BUT NOT LIMITED TO, DAMAGES WHICH MAY ARISE FROM LOSS OF ANTICIPATED PROFITS OR PRODUCTION, SPOILAGE OF MATERIALS, INCREASED COST OF OPERATION, OR OTHERWISE.

Duo-Fast® reserves the right to change specifications, equipment or designs.

An Overview of the *DUO-FAST* Cordless Roofing Nailer

Description

The *DuoFast* Cordless Roofing Nailer is a self-contained, fully portable nailer that uses liquid hydrocarbon fuel to power a unique linear drive internal combustion motor.

In order for you to fully understand the information contained in this manual, you need a basic understanding of the Cordless Roofing Nailer. As you can see in the illustration below, the Cordless Roofing Nailer is made up of three major areas: handle, motor, and magazine.

As you examine the Cordless Roofing Nailer, become familiar with the three major areas and the various components located in each of them.

The **Handle Assembly** contains the fuel cartridge, indicator light, the trigger, and the battery for the Cordless Roofing Nailer.

The **Motor Assembly** contains the cover and filter, the motor housing, the nose, and the work contacting element.

The **Magazine Assembly** contains the components to load and control the fastener.

Specifications

Dimensions:	Weight-with battery	7.44 lbs.
	Height	12-3/8 inches
	Length	11.5 inches
	Magazine	Coil

Cycle Rate: Intermittent Operation – 2 to 3 nails per second

NOTE: Exceeding these cycle rates could cause the tool to overheat, resulting in loss of performance or damage to tool components.

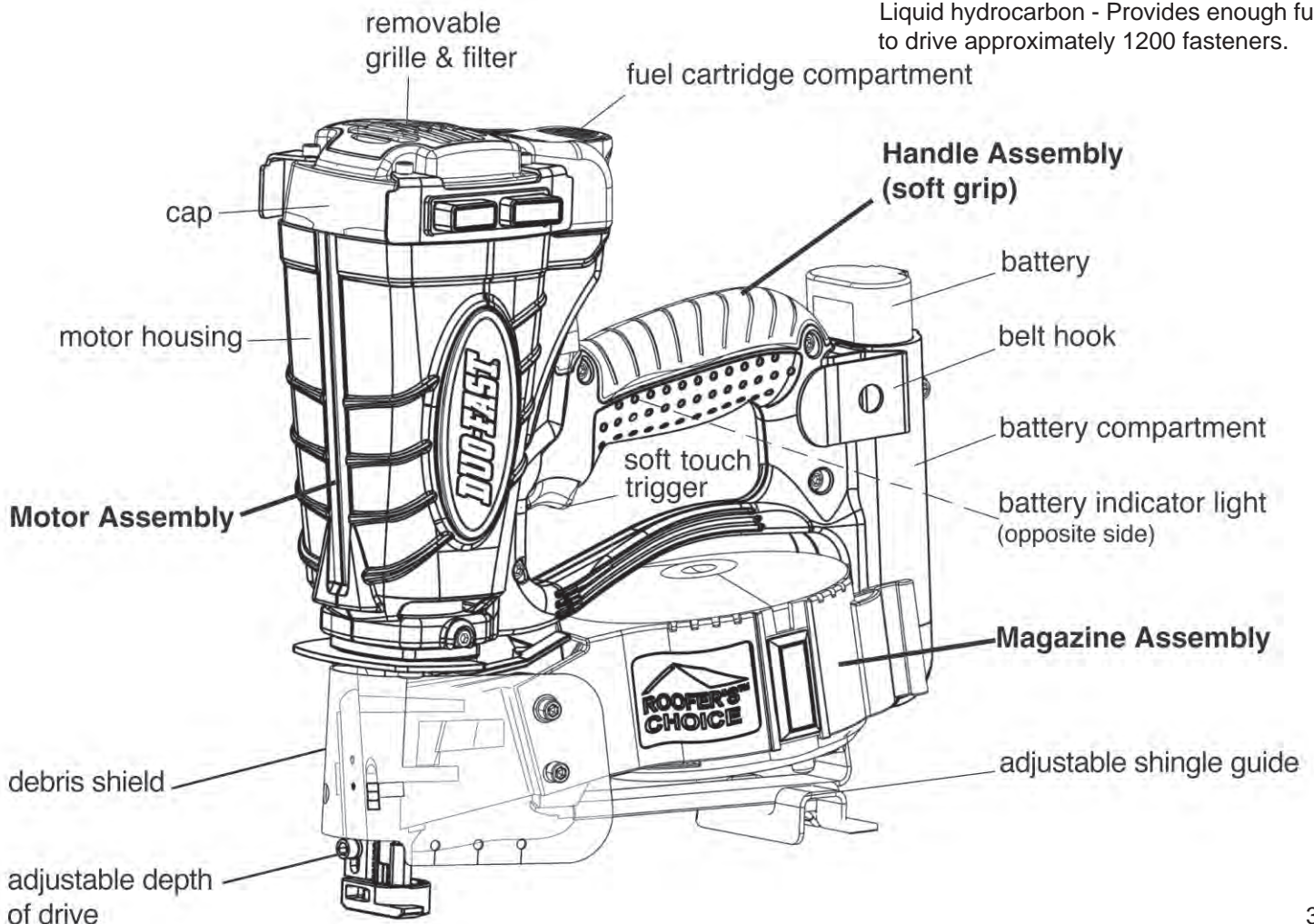
By using the *DuoFast* Cordless Roofing Coil Nailer at its recommended cycle rate, you will be able to drive several thousand nails in a typical workday.

Fasteners: Coil Roofing, .120 Dia. 7/8" to 1-3/4" length

Magazine Capacity: 1 Coil, or 120 Nails



Battery : 6 volts DC - Provides enough energy to drive approximately 2200 fasteners on a full charge.



Fuel Cartridge: Quickload™ Roofers Choice™ fuel cartridge
Liquid hydrocarbon - Provides enough fuel to drive approximately 1200 fasteners.







Safety Instructions

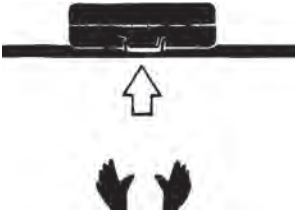

The following safety instructions have been included in this booklet to provide you with basic information necessary for safe operation of the **Duo-Fast®** Cordless Roofing Nailer. **DO NOT ATTEMPT TO OPERATE THIS TOOL UNTIL YOU HAVE READ AND UNDERSTAND ALL SAFETY PRECAUTIONS AND MANUAL INSTRUCTIONS.**



	 DANGER
	<p>The Cordless Roofing Nailer is an internal combustion device. It produces hot exhaust gases that may ignite flammable materials. This tool must not be used in a combustible environment or in the presence of combustible materials, such as flammable chemicals, adhesives, gasoline, or solvents.</p>

	 WARNING
	<p>Do not attempt to operate this tool until you have read and understood all safety precautions and manual instructions. Failure to follow all safety precautions and instructions may result in a permanent loss of vision, serious personal or even fatal injury, property damage and/or tool damage.</p>

	 WARNING
	<p>Do not expose the tool to temperatures in excess of 120° F (49° C). Fuel and/or the battery may burst, releasing flammable gas.</p>

	 WARNING
	<p>This tool must be operated only in a well-ventilated environment, because the tool exhausts carbonmonoxide similar to a gas chain saw or lawn mower. Exposure to carbonmonoxide may cause dizziness, nausea, or unconsciousness.</p>

	 WARNING
	<p>ALWAYS keep the Cordless Roofing Nailer, fuel cartridge battery and battery charger out of the reach of children.</p>

	 WARNING
	Always wear EYE and EAR safety gear when working with or in the vicinity of the Duo-Fast® Cordless Roofing Nailer.



1. Eye protection must meet the requirements of ANSI Standard Z87.1 and should have side shields for increased protection.
2. NEVER ASSUME THE TOOL IS EMPTY.
Never point the tool at yourself or anyone else.
3. NEVER ENGAGE IN "HORSEPLAY" WITH THE TOOL.
The Cordless Roofing Nailer is not a toy – it is a tool. Careless and improper use may result in a serious accident.
4. NEVER CARRY THE TOOL WITH YOUR FINGER ON, OR SQUEEZING, THE TRIGGER.
This practice may result in the accidental discharge of a fastener.
5. NEVER OPERATE A MALFUNCTIONING TOOL.
Refer to the servicing or troubleshooting section of this manual to correct the problem. If the problem cannot be corrected, stop using the tool and report it to your supervisor or **Duo-Fast®** representative.
6. DO NOT LOAD FASTENERS WITH THE TRIGGER AND/OR WORK CONTACTING ELEMENT PRESSED IN.
A fastener may be accidentally discharged.

7. NEVER REMOVE OR DISABLE THE WORK CONTACTING ELEMENT.

This device helps reduce the possibility of accidental fastener discharge by preventing the tool from operating until it is completely against the work surface.

NEVER operate the tool if the work contacting element is not working properly.

8. ALWAYS POINT THE TOOL AWAY FROM YOURSELF AND OTHERS WHEN CLEARING JAMS OR REMOVING FASTENERS.
9. NEVER OPERATE THE CORDLESS ROOFING NAILER IF PARTS ARE LOOSE, DAMAGED OR MISSING.
10. DO NOT DRIVE FASTENERS INTO KNOTS OR ON TOP OF OTHER FASTENERS.
A fastener may ricochet and cause serious injury.
11. OPERATE THE TOOL ONLY ON THE WORKPIECE.


	 WARNING
	The Duo-Fast® Cordless Roofing Nailer should be operated only when it is in contact with the work surface.

Safety Instructions



12. NEVER DRIVE FASTENERS INTO AREAS WITH CONCEALED HAZARDS.

Always check the area behind the work surface for electrical wiring, gas pipes, water pipes, sewer drains or other potential hazards.

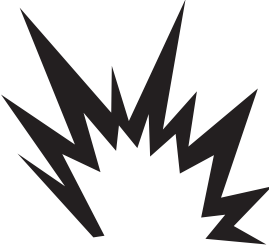

13. ALWAYS MAINTAIN SECURE AND UNOBSTRUCTED FOOTING WHEN ON LADDERS, PLATFORMS OR OTHER HIGH LOCATIONS.

	 WARNING
	<p>Never over-reach, since tool recoil may cause a loss of balance. Always be aware of edges and drop-offs when nailing on roof tops and other high locations. Keep them in full view.</p>

14. ALLOW ONLY QUALIFIED PERSONNEL TO OPERATE THE CORDLESS ROOFING NAILER.

	 WARNING
	<p>Only persons who have read and fully understand all tool operation safety and maintenance instructions should be allowed to operate the tool.</p>

15. PROPERLY STORE FUEL CARTRIDGES.

	 WARNING
	<p>Always store fuel cartridges where they will not be exposed to an open flame, sparks or temperatures above 120° F (49°C).</p>



16. ALWAYS STORE THE TOOL WITH THE FUEL CARTRIDGE AND BATTERY REMOVED.

Store the fuel cartridges in the case with the Cordless Roofing nailer.

17. KEEP THE TOOL CLEAN.

A clean tool is less likely to jam or malfunction.

18. KEEP YOUR HANDS CLEAR OF THE WORK AREA SURFACE.

	 WARNING
	<p>A fastener may exit at an angle unexpectedly and cause injury.</p>

Battery Disposal:

The **Duo-Fast**® batteries contain cadmium and must be recycled or disposed of properly. It is illegal in some areas to place a nickel-cadmium battery into the trash or solid waste stream. You may contact your local recycling center for information on where to return the spent battery or call 1-800-822-8837 for information on Ni-Cd battery recycling in your area.



Battery and Charging System

Battery and Charging System

The **Duo-Fast** Cordless tools come with a rechargeable battery and its own charging system. This charging system is the only one that will work with **Duo-Fast** batteries. The first step in preparing a new tool for operation is to fully charge the battery. New batteries are shipped discharged and must be charged prior to first use.

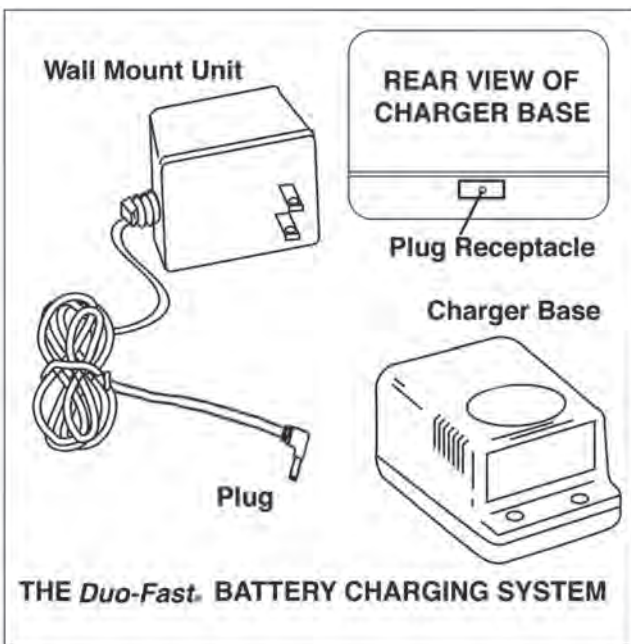
Batteries will take 5 minutes to 2 hours (time will be dependant on the amount of discharge of the battery) to recharge.

Important Charging Notes

	 Warning
	CHEMICAL/EXPLOSION HAZARD Read ALL instructions before charging or using battery. Failure to follow ALL instructions may result in fire, severe burns, or release of toxic materials.

Battery Disposal:

The **Duo-Fast** batteries contain cadmium and must be recycled or disposed of properly. It is illegal in some areas to place a nickel-cadmium battery into the trash or solid waste stream. You may contact your local recycling center for information on where to return the spent battery or call 1-800-822-8837 for information on Ni-Cd battery recycling in your area.



Charging Instructions

1. Remove wall mount unit with the blue label from the tool case and plug into a 120V AC outlet. Set the black charger on a stable surface and insert wall mount unit's plug into plug receptacle on the back of the charger (see picture). A green light indicates power is on and charger circuit is ready.
2. Remove the battery from tool or case and insert terminals down into charger. The red light will come on indicating that the battery is charging and the green light will go out.

NOTE

If battery is completely discharged, the red light and the green light may flash back and forth. This safety feature slowly recharges the battery until it is ready to accept the full charging current. If the red and green lights continue to flash after 5 minutes, replace the battery.

3. After charging is complete, the red light will go out and the green light will come on, indicating that the battery is fully charged. The charger will keep the battery at full charge until it is removed.
4. Unplug the wall mount unit from the charger and remove the wall mount unit from the 120V AC outlet.

CHARGING TIMES:

First charge (new battery)	2 hours
Discharged Battery	5 minutes to 2 hours

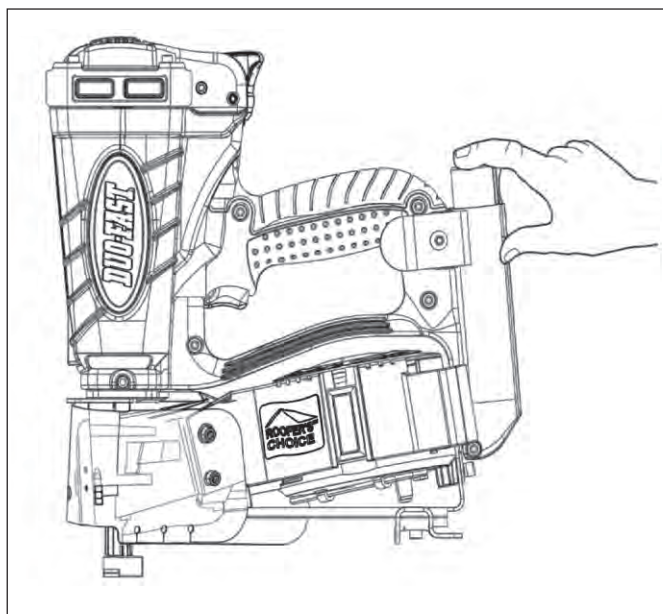
CHARGING DON'TS:

1. Do not charge battery outdoors or in temperatures below 40°F (5°C).
2. Do not allow metal objects to come in contact with battery terminals.
3. Do not puncture or attempt to open battery case or cells.
4. Do not store battery where it will be subjected to temperatures above 120°F (49°C).
5. Do not incinerate battery.
6. Do not use a defective battery charger, one that over-heats and/or smokes when plugged in.
7. Do not immerse the battery in water.

Charging System Accessories:

Battery - Part No. 902336
Battery Charger Kit - Part No. 902327
Wall Mount Transformer* - Part No. 902302
Battery Charger Base* - Part No. 902301
Automotive Adapter* - Part No. 902333

Battery and Charging System

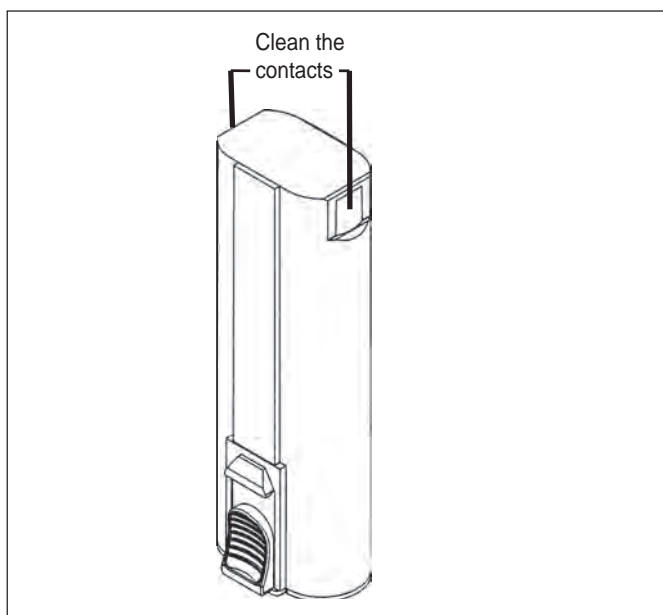


Inserting Battery

1. Load the battery, contacts first, into the Cordless Roofing Nailer.
2. Push battery down into its locked position.
3. To remove battery, push in on locking tab and slide battery out.

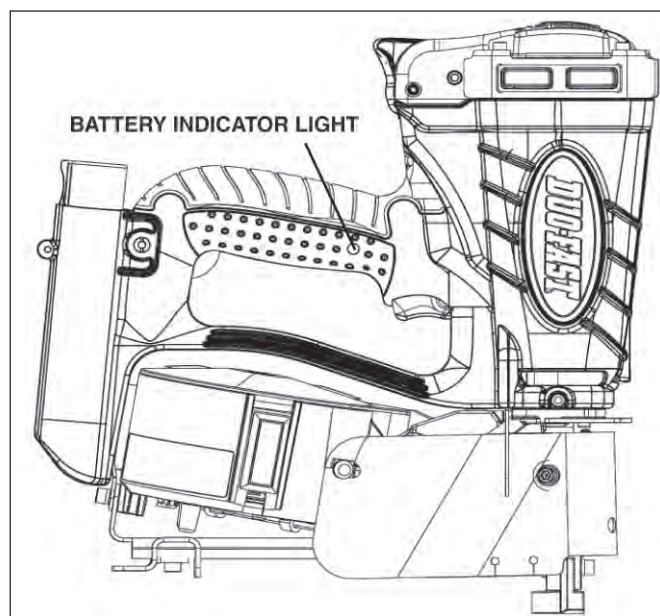
NOTE: If battery is left in tool for an extended period, the battery will discharge completely and will require recharging.

IMPORTANT: Should your battery terminals become corroded and cause poor electrical contact, clean the terminals using a soft cloth.





Battery Indicator Light


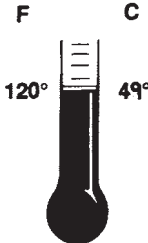
On the right side of the handle is a small plastic lens. This is the battery indicator light. When you insert a fully-charged battery into the tool, you will see a blinking green light. If the indicator light blinks red, recharge the battery.




Quicklode™ Fuel Cartridge

Fuel Cartridge

	 WARNING
	EXPLOSION/FIRE HAZARD Read ALL safety instructions before using or handling the fuel cell. Failure to follow ALL instructions may result in explosion or fire. This may cause serious personal injuries or property damage. Keep the fuel cartridge away from heat, sparks and open flame. Do not smoke when handling or operating tool or fuel cartridge. Exposure to temperatures above 120°F (49°C) may cause the fuel cartridge to burst, releasing flammable gas.

 WARNING
Sunlight can raise the inside temperature of an unventilated motor vehicle or storage container to above 140°F (60°C). Never puncture or attempt to open the fuel; it is nonrefillable. Never incinerate, reclaim or recycle the fuel. Never smoke while installing or operating the fuel cartridge or tool. Never inhale the spray. Keep out of the reach of children. Store fuel cartridge(s) in well-ventilated areas only.



There is a second container inside the fuel cartridge. This inner container holds the fuel. The space between the inner container and the outer cylinder is filled with a gas, called the propellant, which is under pressure.

To eject the fuel, propellant pressure squeezes the inner fuel container much as you squeeze a tube of toothpaste. This squeezing action ensures that all the fuel is used, and that the Cordless Nailer can operate in any position.

However, over time the propellant pressure diminishes until it is no longer able to squeeze the inner fuel container. This is why a nailer using a fuel cartridge beyond the "Best Use Before" date may not work consistently or at all.

If you expose the empty or expired fuel cartridge to extreme temperatures, the propellant gas will expand and could cause the container to burst, releasing flammable gases.

The fuel contains a small amount of oil to keep the tool lubricated during use. **It is not necessary to oil the tool during normal operation.** When cleaning the tool, use only *Duo-Fast* Cordless tool oil. Using oils not formulated for the *Duo-Fast* Cordless Tool, may cause loss of power and may damage the internal parts of the tool's motor.

 DANGER 
<ol style="list-style-type: none">1. Do not attempt to remove or reuse the fuel cartridge cap.2. Do not attempt to install the fuel cartridge cap on other fuel cells. This may result in damage to the tool and injury to the user and bystanders!

NOTE
<ol style="list-style-type: none">1. Never attempt to refill the cartridge! Replace with fresh fuel cartridge, and dispose of spent cartridge properly.2. When replacing fuel cartridge also clean or replace air filter for optimum tool operation.

NOTE: Altitude Restriction
<i>Duo-Fast</i> Cordless tools are powered by an internal combustion engine and are affected by altitude. The tool may lose power or not cycle consistently at elevations of 4500 feet or greater.

Fuel Cartridge

NOTE:

Roofer's Choice™ Cordless fuel cartridges are marked with a "Best Use Before" date on the bottom of the can. For maximum performance use fuel before the "Best Use Before" date.



***Roofer's Choice™ Cordless Fuel Cartridges are flammable.
Do not remove fuel cartridge cap or install on other fuel cells!***

Roofer's Choice™ Cordless Fuel Cartridge Disposal Guidelines

Duo-Fast® an industry leader in cordless technology provides this information to assist users with the proper disposal of discarded fuel cartridges. Acceptable disposal options vary depending on the type of fuel cartridge users. All users must consider federal, state and local solid waste regulations to ensure that discarded fuel cartridges are disposed of properly. Users must contact their local solid waste disposal authority for further guidance.

Discarded fuel cartridges (used or unused) may be considered hazardous waste under the Resource Conservation and Recovery Act (RCRA) depending on several factors as described in the paragraphs that follow. Upon disposal used and unused fuel cartridges may be classified as ignitable hazardous waste (waste code D001) under U.S. EPA regulations.

Hazardous waste generated by homeowners and contractors who perform routine maintenance for homeowners in their homes are not regulated by RCRA. In general, "household wastes" generated by homeowners and their contractors are exempt from hazardous waste regulation because those wastes are expressly excluded from the definition of hazardous waste. For example US EPA has excluded as "household waste" aerosol cans that contain residual product and propellant. Thus under federal hazardous waste regulations homeowners and contractors may dispose of discarded fuel cells as general refuse in a properly permitted municipal landfill. These users must still contact their local solid waste authority to determine if any state or local regulation prohibits or restricts such disposal.

Duo-Fast® takes no responsibility for proper fuel cartridge disposal. Proper disposal remains the responsibility of sellers and users.

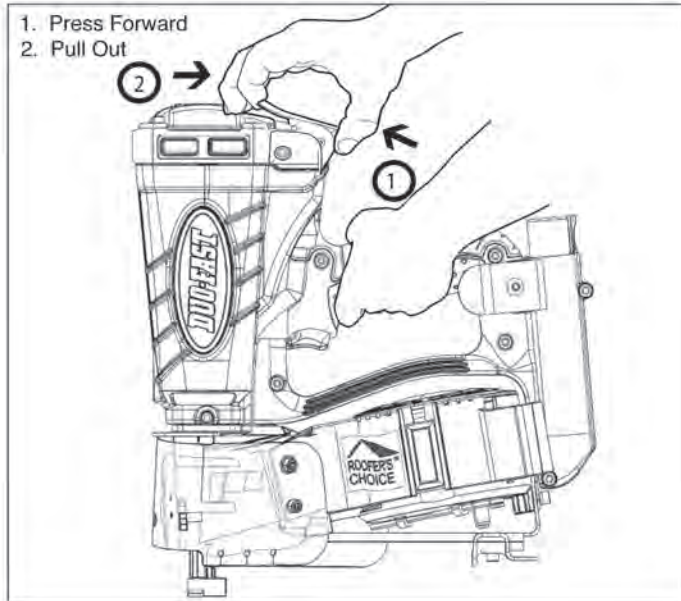
All sellers and users must contact their local solid waste authority to determine if any federal, state or local regulation prohibits or restricts disposal. Users may obtain more information about U.S. EPA hazardous waste regulations at the following internet address: www.epa.gov/epaoswee.osw/hazwaste.htm

Alternatively users may contact U.S. EPA's RCRA Superfund Call Center at 1-800-424-9346 to receive more information.

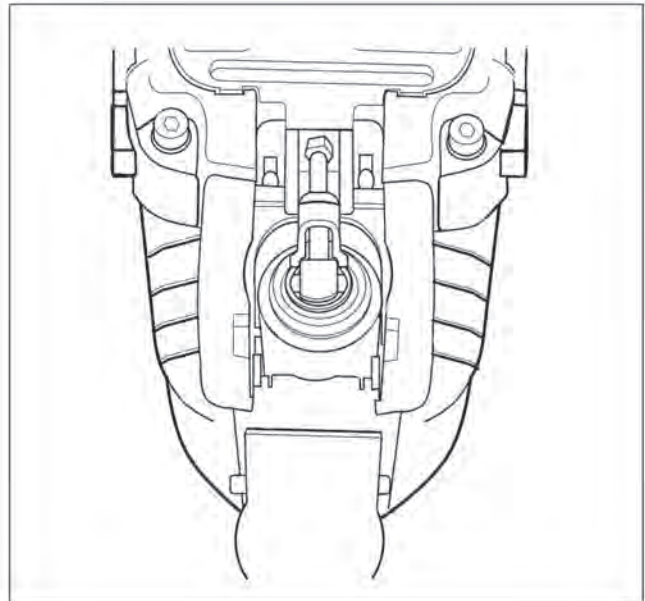
Quicklode™ Fuel Cartridge

Inserting Fuel Cartridge

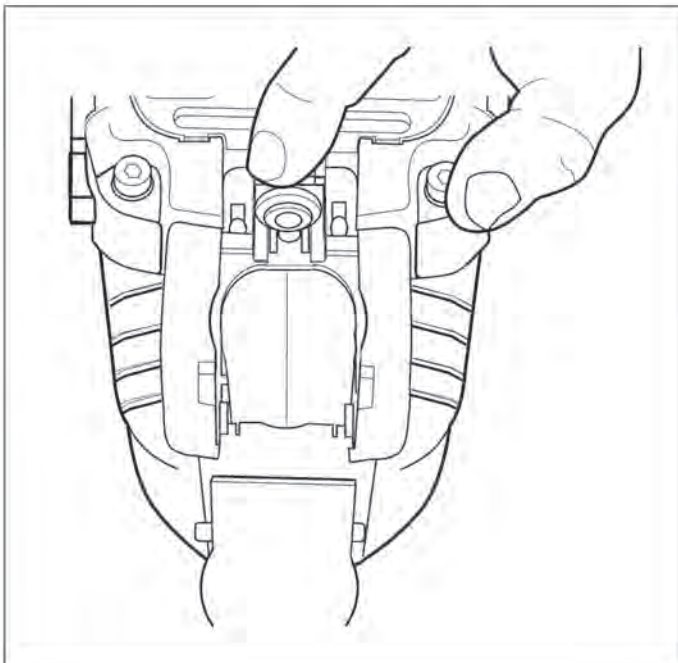
A. When loading a fuel cartridge, lift the tool off of the work surface so the work contact element (WCE) is not depressed. Press forward at the back of the actuator cover and pivot outward to open. The cover will swing out of the way.



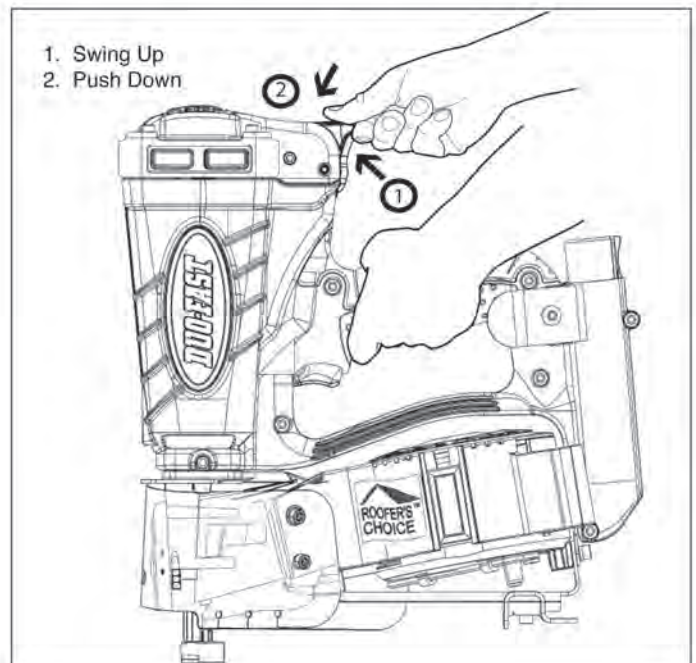
C. Release the adaptor so it is centered on the fuel cartridge.



B. Lift the fuel cartridge adaptor and insert the Quicklode fuel cartridge into the tool.



D. Close the actuator cover to complete the loading of fuel in the Cordless Roofing Nailer. Do this by swinging it up and over the fuel cartridge, and pushing down until the actuator cover snaps into position.



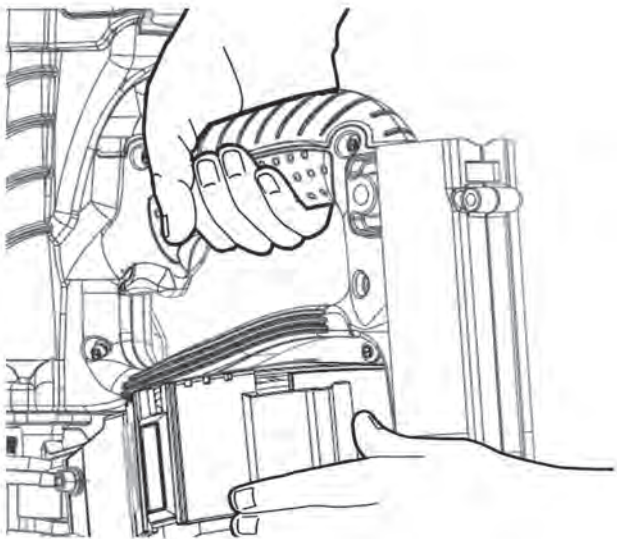
Preparing the Cordless Roofing Nailer for Use

Fasteners

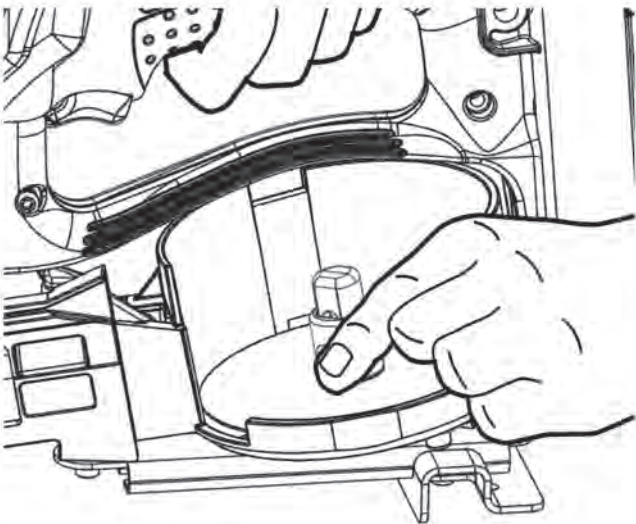
The *Duo-Fast*® Cordless Roofing Nailer drives Roofer's Choice® coil nails designed to be used with the tool. The use of fasteners that do not meet *Duo-Fast*® standards could cause tool damage and will void all warranty claims.

Loading Coil Nails

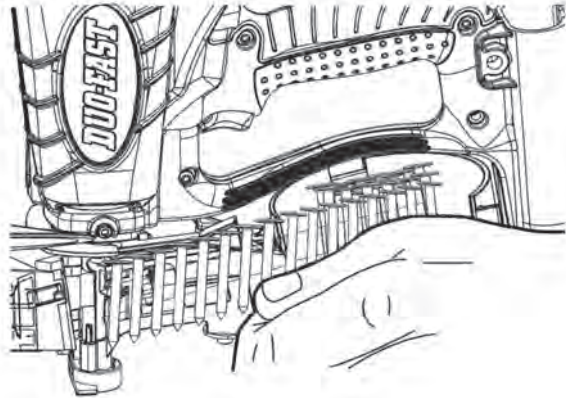
Step No. 1 – Grasp the nailer handle firmly with one hand and with the other hand unlatch the magazine cover clip. Swing the magazine door open.



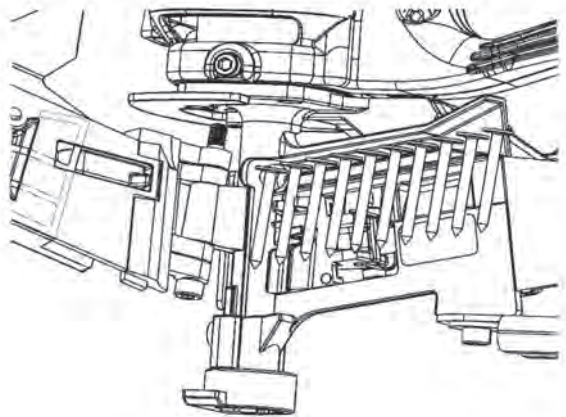
Step No. 2 – Adjust the loading tray for nail length (if required) by depressing the button on the post and raising or lowering the tray to the desired position.



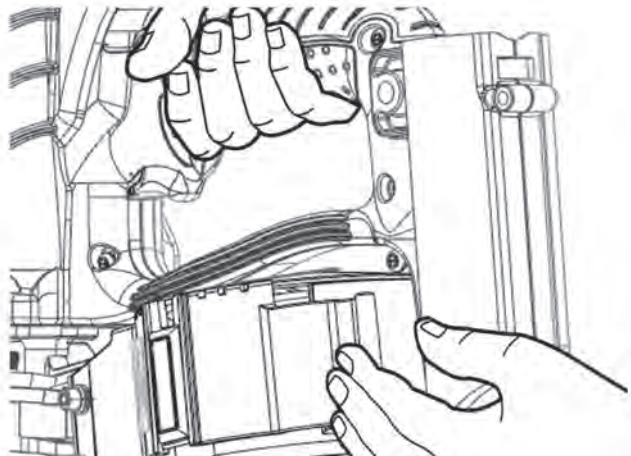
Step No. 3 – Remove the band from a nail coil and place the nail coil in the magazine with the tips of the nails against the loading tray and with about 4 inches of coil unwound. Make sure the coil is centered over the post.



Step No. 4 - Slide the free strip of nails along the top of the feeder body assembly and place the first nail in the nose of the tool with the head of the nail on the magnet.



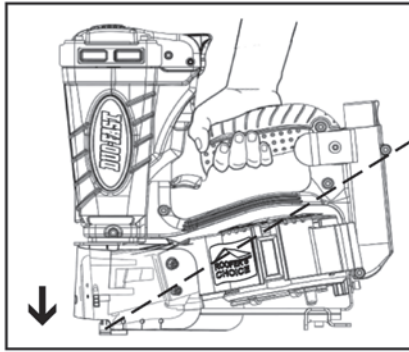
Step No. 5 - Carefully close and latch the magazine door.



Step No. 6 - The nailer is now ready for use.

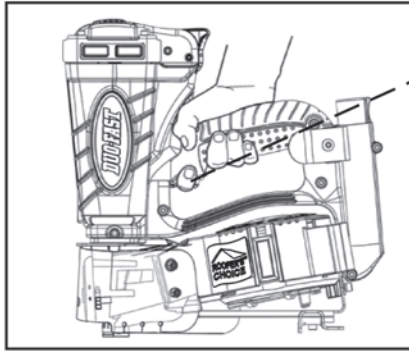
Duo-Fast® Cordless Roofing Nailer Operation

Operation:

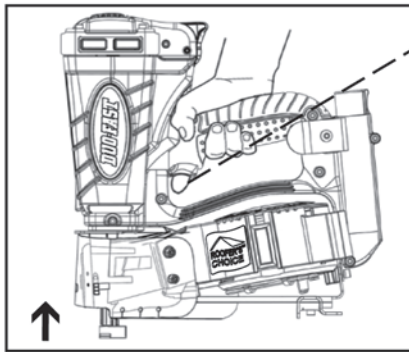


PRESS WORK – CONTACTING ELEMENT AGAINST THE WORK SURFACE.

Fan motor starts, fuel is injected into combustion chamber and mixed with air by the fan.



SQUEEZE TRIGGER Spark plug ignites the fuel/air mixture driving the piston assembly down on the fastener.



RELEASE TRIGGER - LIFT TOOL Combustion chamber opens. Fan exhausts hot gases and cools internal components.



DANGER

The work contacting element and nose will become hot after prolonged or rapid use.



CAUTION

This tool must be operated in a well ventilated environment, because the tool exhausts carbon monoxide similar to a chainsaw or lawn mower. Exposure to carbon monoxide may cause dizziness, nausea or unconsciousness.

Duo-Fast® Cordless Roofing Nailer and Outdoor Weather

Use the Cordless Roofing Nailer outdoors, in dry weather, when the nailer, fuel cartridge, and battery are between 40°F (4.4°C) and 110°F (42.3°C).

HOT WEATHER OPERATION

The Cordless Roofing Nailer requires cooling of the motor assembly to operate properly. The fan normally provides the necessary air flow to permit continuous operation. Whenever the Cordless Roofing Nailer is idle for extended periods, keep the fuel and tool out of direct sunlight and in surroundings where temperatures will not exceed 120°F (49°C). After extended periods of continuous use, it may be necessary to cool the Impulse motor by setting tool aside for 10-15 minutes or until the tool operates normally. An overheated tool may not drive nails completely or may operate erratically.

COLD WEATHER OPERATION

Fuel cartridges at cold temperatures lose the required propellant pressure. Bring the tool, fuel cartridge, and battery above 50°F (10°C) by placing the tool in a heated building or vehicle. Never expose the tool, fuel cartridge or battery to flame.

If the tool can't be warmed to 50° F (10° C) or greater, follow the below steps until the tool reaches it's normal operational range.

Warm the fuel cartridge by placing it in an inside pocket of your jacket for several minutes.

Load the warm fuel cartridge into the tool and depress the tool twice quickly on the work surface, do not pull the trigger. This action is sometimes referred to as "double pumping" the tool. After the second actuation, hold the tool down for one second then pull the trigger.

It will be necessary to repeat this procedure several times until the temperature of the tool warms up enough to operate in it's normal mode.

Once the tool reaches operational temperature the tool will generate it's own heat and will function normally.

If the tool sits for an for an extended period of time and cools down it may be necessary to repeat these steps.



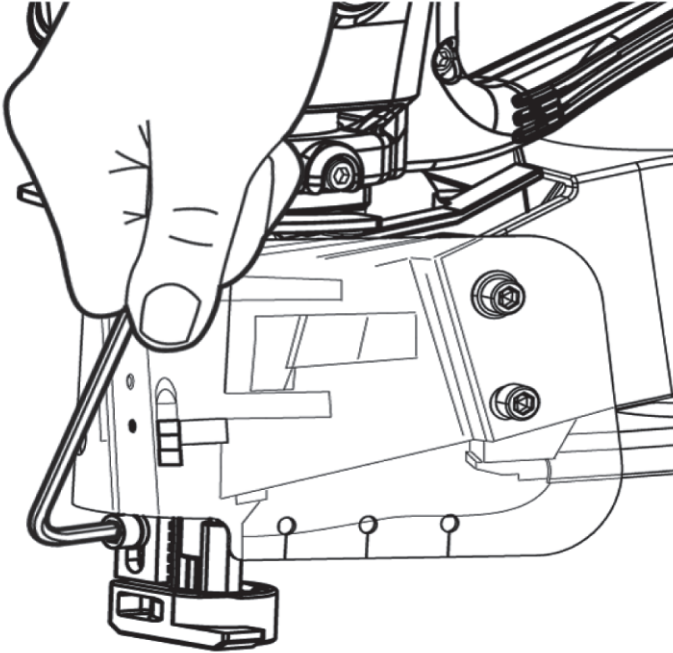
CAUTION

The Cordless Roofing Nailer should not be used in the rain or where excessive moisture is present. The use of the Duo-Fast® Cordless Technology under these conditions may result in damage to tool components and cause the tool to malfunction.

Servicing

Adjusting Depth of Drive

To adjust the depth of drive, loosen the work contact screw. Set the work contact to the desired position and tighten the screw.



Restrict Field Service to the Following

- CHECKING THE ENERGY LEVEL OF THE BATTERY
- RECHARGING THE BATTERY
- CHECKING THE FUEL CARTRIDGE
- REPLACING THE FUEL CARTRIDGE
- CLEANING THE AIR FILTER

Attempts to go beyond these procedures could result in serious personal injury or damage to the Cordless Framing Nailer and voiding the warranty.

There are certain problems you may encounter when you are using the Cordless Roofing Nailer that you will be able to correct on the work site. The following field service procedures are the only service procedures you should attempt. Anything else that may appear wrong with the Cordless Roofing Nailer should only be diagnosed and repaired by a fully trained service technician. If you have any reason to believe that your problem is beyond the service procedures in this manual, contact your *Duo-Fast*® representative immediately.



Never attempt any maintenance of the Duo-Fast Cordless Roofing Nailer without first removing the fuel cartridge and battery. Maintenance should be started only after the tool is **completely** inoperative.

Battery Check

Periodically check the battery indicator light in the handle of the Cordless Roofing Nailer. When encountering a problem, the first step should always be to make sure the battery has enough energy to operate the tool.

When the work contacting element is pressed on work piece, the fan motor will turn on and blinking green light will turn solid green. If the light blinks red or glows red, recharge battery.

Fuel Cartridge Check

If the nailer's fan operates and the light is green but the tool will not cycle consistently or at all, check the fuel cartridge. First remove the fuel cartridge from the tool and check the "Best Use Before" date stamped on the bottom. If it is beyond this date, the fuel cartridge may not consistently dispense the proper amount of fuel – even if the cartridge has never been used. To test if the cartridge still dispenses fuel:



Wear safety glasses when performing this test. Never perform this test near an open flame or sparks, while smoking, or where the fuel may get into your eyes.

1. Hold the cartridge in the upright position with the flat bottom toward the ground – this orientation is important for a proper test.
2. Gently push the tip of the cartridge cap against a solid object five times.
3. A small amount of fuel should be released all five times.
4. If fuel is not released every time it indicates the cartridge is empty or expired* and must be replaced.

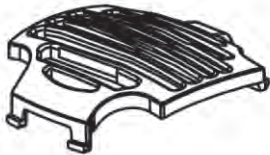
* Expired cartridges may dispense fuel when upside down or sideways but will not work more than a couple of times in the upright position because of the reduced internal pressure (see page 9 for more information).

Servicing

Air Filter

Open the grille by pressing slightly above the adapter and pivoting the cover open. The air filter simply lifts out.

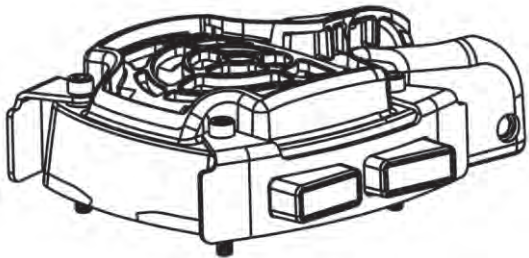
Tap the filter GENTLY to remove any dust. Check and clean the air filter every two days. Soap and water restores the filter to a "like new" condition.



GRILLE



FILTER



CAP

When you get home:

1. Place the battery in its charger if it needs charging as indicated by the red charge light on the handle.
2. Wipe your Cordless Roofing Nailer with a clean, soft cloth.
3. Remove and clean the filter every two days.
4. Check work contacting element and the nail feed area to ensure it is operating freely. Remove any tar build-up with Paslode Cordless Tool Cleaner.

Duo-Fast® Cordless Tool Accessories

A variety of accessories are available for the Duo-Fast® Cordless Roofing Nailer:

Battery - Part No. 902336

Clear Safety Glasses - Part No. 401382

Duo-Fast® Cordless Lubricating Oil - Part No. 902331

Battery Charger Kit - Part No. 902327

Automotive Adapter - Part No. 902333

Backpack Tool Case - Part No. 904605

Cordless Tool Cleaner - Part No. 219348

Tool Safety Tether - Part No. 904548

End-of-Workday Routine

These simple steps are based on maintaining the safety and operational efficiency of the Cordless Roofing Nailer.

Before you leave the work site:

1. Remove battery and store in tool case. Always use the Cordless Roofing Nailer case for transporting and storing the tool.
2. Dispose of all empty fuel cartridges. Remember to dispose of these cartridges where they will not be crushed, punctured, burned or found by children.

Contact your Duo-Fast® representative for additional information.

Tools

A 5/32 Hex Wrench (Part No. 401331), 9/64 Hex Wrench (Part No. 900736), and a 3/16 Hex Wrench (Part No. 50144) are provided with each cordless roofing nailer.

Preparing Tool for Operation - Battery/Charger Problems

SYMPTOM	POSSIBLE PROBLEMS	SERVICE
Battery does not appear to accept charge when battery is plugged into the charger.	Inoperative indicator lights on charger, or defective charger.	Try battery in tool after a full charge cycle. If tools indicator light is red, charger not working properly. Replace charger, or monitor charging time to ensure battery has adequate time for recharging. It is normal for battery to feel warm after properly charging.
	Battery damaged or cycle life exhausted.	Replace battery.
Charger gets hot, makes excessively loud noise, or smokes during charging cycle. Charger cord or wall plug gets hot.	Damaged charger.	Discontinue use immediately and unplug from power source. Replace charger and tag or dispose of charger to prevent accidental re-use or connection to power source.

Normal Stage of Operation

SYMPTOM	POSSIBLE PROBLEMS	SERVICE
Fan does not run - tool indicator light is blinking red or solid red.	Battery is not charged.	Charge battery.
	Battery terminals are oily, dirty, or corroded.	Clean battery terminals with soft cloth.
Fan does not run, or runs slower than normal - tool indicator light is solid red.	Battery is discharged.	Charge battery.
Work-contacting element does not depress fully - tool does not operate.	Work-contacting element is bent, or build-up of debris on the nose restricts operation.	Remove and inspect lower probe. Clean the nose. Repair or replace lower probe as required.
Tool will not cycle - fan runs, indicator light is solid green.	Fuel Cartridge empty or past "Best Use Before" date stamped on the bottom.	Replace fuel cartridge.
	Spark plug is dirty.	Clean tool cylinder head.
	No spark is generated.	Return tool to authorized <i>Duo-Fast</i> ® dealer for service.

Troubleshooting

Normal Stage of Operation

SYMPTOM	POSSIBLE PROBLEMS	SERVICE
Tool operates properly, but fasteners do not drive fully.	Work-contacting element requires adjustment.	Adjust work contacting element.
	Fuel cartridge is low.	Check fuel cartridge and replace as required.
	There may be loss of seal in combustion chamber.	Press work contacting element against workpiece for one minute. Pull trigger. If fastener does not drive, there is a leak that requires service.
Tool operates properly, but fasteners are sometimes over-driven, and sometimes under-driven.	Work-contacting element is not adjusted properly for the type of material being fastened.	Adjust work-contacting element. Readjust as required when material density or thickness of material being fastened changes.
Tool operates, but no fastener is driven.	Wrong fasteners being used.	Use only fasteners meeting Duo-Fast ® specifications. Check fasteners and applications section for fastener types and sizes recommended for use in Cordless tool.
	Jammed fastener.	Clear jam.
Tool operates erratically or appears to be losing power - tool indicator light is green.	Fuel cartridge is low.	Check fuel cartridge.
	Spark plug wire is loose.	Check spark plug wire.
	Air filter is dirty, causing tool to overheat.	Remove air filter and clean. Use soap and water to remove stubborn debris.
	Tool needs to be warmed up.	Warm tool. Refer to page 13.
	Tool is dirty.	Clean tool.
Tool operated and drove fasteners, but driver blade did not return to up position.	Built-up dirt and debris on driver blade or on nose bore.	Clean driver blade and nose bore with degreaser cleaner.
	Tool is dirty.	Clean tool.
Combustion chamber does not drop after tool cycles.	Work-contacting element is bent, or is dirty.	Clean nose area or replace work-contacting element.

If tool will not operate after following the above service directions, return the tool to an authorized **Duo-Fast**® representative for service.

For the nearest **Duo-Fast**® representative call 1-888-631-2020.

For factory direct service call 1-800-447-3830.

For technical support call 1-800-222-6990 or visit our web site at www.duofastconstruction.com.



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