



**SAFETY OPERATING &
MAINTENANCE INSTRUCTIONS**
(ENGLISH)

PATRIOT® 221 SERIES



Scan this code with your mobile device for the latest SOMI revision and installation information.






TABLE OF CONTENTS

SAFETY INFORMATION	2
USE	4
DESCRIPTION	4
FEATURES AND BENEFITS	5
PARTS OF THE TOOL	5
PRE-OPERATION INSTRUCTIONS	6
OPERATION	8
MAINTENANCE	9
SERVICE	9
TROUBLESHOOTING	10
COMMONLY ASKED QUESTIONS	12
PARTS	13
MAKITA BATTERY INFORMATION	14



SAFETY INFORMATION

The above symbols are used to call your attention to instructions concerning your personal safety. Look for these symbols; read and follow the instructions that accompany them. Failure to follow the safety information provided can lead to serious personal injury or death.

<u>SYMBOL</u>	<u>MEANING</u>
 DANGER	Hazards that, if not avoided, will result in severe injury or death.
 WARNING	Hazards that, if not avoided, could result in severe injury or death.
 CAUTION	Hazards that, if not avoided, could result in minor or moderate injury.

ELECTRO-MECHANICAL POWER SOURCE

WARNING

Do NOT disassemble this tool at any time. Disassembly of this tool may result in severe personal injury or tool damage and will void the warranty.

The electro-mechanical power system is a non-field serviceable item. If you suspect that your tool is not functioning properly, please contact the BURNDY® Tool Service Center at 1-800-426-8720 or 1-603-444-6781.

SAFETY FIRST

⚠️ WARNING



The information provided in this manual is essential for the safe handling, operation, and maintenance of a BURNDY® PATRIOT® 221 series tool. The operator must read, understand, and follow these instructions and ALL safety warnings and labels before operating this tool.

Use this tool only in accordance with the manufacturer's specifications. Other use of this tool may lead to serious personal injury or death.

Each employer shall instruct each employee and user in the recognition and avoidance of unsafe working conditions and the laws and regulations applicable to his/her work environment to control or eliminate any hazards or other exposure to illness or injury. Reference: OSHA 29CFR 1910 et seq.

If a conflict arises between the material contained in this manual, rules of the user, his/her employer or company, and legal or industry guidelines, the more stringent rules take precedence and must be followed. Observe and follow all other safety rules and regulations for the job.

Safety is everyone's responsibility.

OPERATING SAFETY PRECAUTIONS

⚠️ WARNING



Tool is NOT insulated for use on or near energized conductors. Use of this tool near energized conductors may lead to electrical shock, causing severe injury or death. Do NOT use this tool near energized conductors without adequately insulating operator and surroundings.



Pinch point hazard. Crimp jaws can operate at high speed and force and can cause severe personal injury. Keep all body parts away from moving parts of the tool during operation.



Do NOT over-reach while operating this tool. Loss of balance can cause serious personal injury or death. Move closer to work area and securely support yourself and your work. ALWAYS keep proper footing and balance.



Projectile hazard. Wear eye protection and personal protective equipment.



Explosive hazard. Do NOT use tool in an explosive environment.

WARNING



Use all appropriate personal safety equipment when handling, operating, and servicing this tool such as: safety shoes, hard hat, eye and ear protection, work gloves, and long sleeves.

To help ensure safe operation of this tool, keep all safety labels clean and legible. Replace labels with new labels when necessary.

USE

This tool has been specifically designed for use with BURNDY® products. Use of non-BURNDY® products is limited to those which conform to BURNDY® Technical Specifications applicable to the tool. Use of non-BURNDY®, non-conforming products with the tool shall be deemed misuse or abuse.

CAUTION

The tool may only be operated with dies installed. Attempting to operate the tool without paired BURNDY® PAT221 dies may result in tool damage. Attempting to use the incorrect BURNDY® PAT221 dies or grooves for a given connector may result in tool damage.

IMPORTANT

When storing the tool, the following steps should be followed to avoid potential injury:

- Push Trigger outward to ensure the jaws are fully open
- Engage the Safety Switch to the locked position (towards padlock icon)
- Remove the battery

DESCRIPTION

The BURNDY® PAT221 is a handheld battery mechanical tool that can accommodate a wide range of compression connectors. A variety of dies are available which cover different conductor sizes and connector families.

SPECIFICATIONS

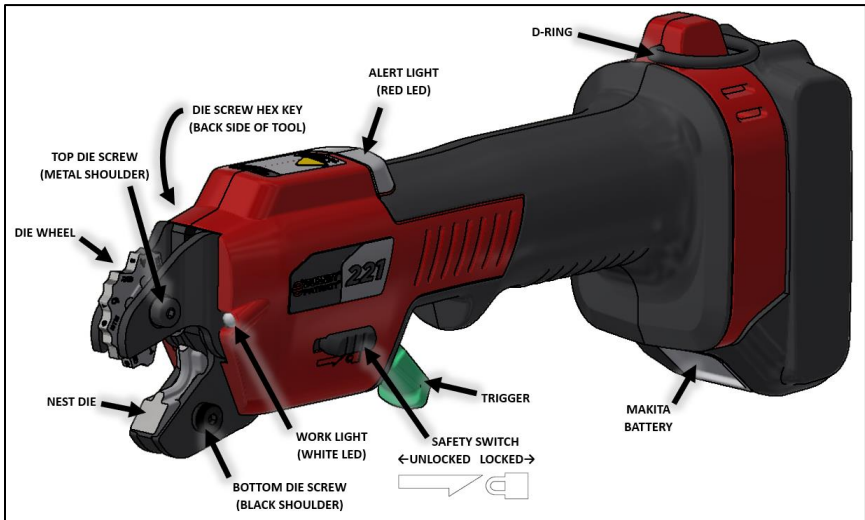
Crimp force:	2 tons (1.8 metric tons)
Tool weight (with 2.0Ah battery):	3.5 lb (1.6 kg)
Length:	11.8 in (300 mm)
Width:	2.8 in (71 mm)
Height:	4.2 in (107 mm)
Operating Voltage:	18 V-DC
2.0 Ah (36 Wh) Battery recharge time:	<25 mins

FEATURES AND BENEFITS

1. Battery-powered design reduces hand actuation force by up to 90%, compared to conventional ratchet hand tools.
2. Jaw fits into the same envelope as conventional BURNDY® ratchet hand tools, allowing the user to fit the tool into tight spaces and cabinets.
3. Half-scissor jaw provides a stationary jaw which can be used to more easily line up the connector in the die for crimping.
4. Connector hold feature allows the user to grip the connector prior to crimping so that the wire can be inserted.
5. One button operation for hold, crimp, and retract simplifies the user experience.
6. LED work light illuminates dimly lit work areas.
7. Red LED light indicates incomplete crimp (see PRE-OPERATION instructions under ALERT LIGHT [pg. 7] for more information).
8. Emergency release feature can reverse the crimping motion if wrong connector, wire, or foreign object is crimped.
9. Safety Switch prevents unintentional actuation of the tool.
10. Industry standard Makita 18V LXT Lithium-Ion batteries and charger provide long-lasting power and are widely available.
11. 2.0 Ah battery weighs 35% less than 3.0 Ah and 5.0 Ah battery.

PARTS OF THE TOOL

Before using the BURNDY® PAT221 tool, take a moment to familiarize yourself with the parts of the tool. Doing so will make you aware of the terms used in the following sections.



PRE-OPERATION INSTRUCTIONS

WARNING

Read and follow all PRE-OPERATION and safety instructions provided for your BURNDY® PAT221 Crimper and Makita Battery Charger. Failure to follow the proper operating instructions and safety information provided can lead to serious personal injury or death.

Follow these PRE-OPERATION instructions to ensure your tool is in proper working condition. If your tool does not exhibit normal functions as described below, see the Troubleshooting Section of this manual.

We recommend only connectors and dies designed and manufactured by BURNDY® be installed with the BURNDY® PAT221.

AUTO-CALIBRATION FEATURE

The tool uses an Auto-Calibration process to ensure that each tool cycle is as consistent as the last. At the completion of each tool cycle, or after an emergency release, the tool will set its home/open position after a few seconds. The tool will provide a brief impulse or haptic feedback to the user to indicate it is prepared for the next crimp cycle.

EMERGENCY RELEASE FEATURE

The Trigger can be used to interrupt and reverse the crimping cycle in the case where the wrong connector, wire or crimp groove is selected, or if a foreign object is crimped within the dies. In this case, release the Trigger to interrupt the crimp cycle, then reach behind the Trigger and push it outwards away from the tool to open the jaws and allow the tool to auto-calibrate. The Alert Light will slowly blink. Refer to this label on the topside of the tool.



FLUTTER PREVENTION FEATURE

To ensure the tool achieves the calibrated compressive load, the tool uses Flutter Prevention to limit tool misuse. If the Trigger is depressed, released, depressed, and released before completing a crimp cycle, the Alert Light will rapidly blink. The tool will not continue to crimp until it has returned to the open position. Reach behind the Trigger and push it outwards away from the tool to open the jaws and allow the tool to auto-calibrate.

ALERT LIGHT (RED LED)

There are several actions that would cause the Alert Light to flash red. Refer to the Troubleshooting section for resolution [pg. 11].

- The crimp cycle is interrupted due to the Trigger being released early, and the emergency release feature is started by pushing the Trigger outwards away from the tool to open the jaws.
- The tool has lost confidence in its position due to fluttering of the Trigger or losing power while not at the open position. Push the Trigger out to return to the open position and perform an auto-calibration.
- The maximum force threshold has been reached before the crimp is completed. Be sure to use only the recommended dies and connectors and ensure the correct die and crimp groove are selected.

DIE INSTALLATION

To install dies:

1. Select the appropriate die for the application. Please refer to the connector catalog page or the die index number shown on the connector to determine the correct die set.
2. Remove battery and engage/lock the Safety Switch.
3. Using the provided Die Screw Hex Key (1/8"), remove the die screws on the fixed and moveable jaws.
4. Insert the Die Wheel in between the stationary jaws such that the ball detent feature is engaged. Insert the Top Die Screw (Metal Shoulder) through the stationary jaws and Die Wheel. Hand-tighten loosely.
5. Insert the Nest Die in between the moveable jaws. Insert the Bottom Die Screw (Black Shoulder) through the moveable jaws and Nest Die. Hand-tighten loosely.
6. Disengage/unlock the Safety Switch and pull the Trigger to close the jaws to confirm that the dies are aligned properly.
7. While continuing to hold the Trigger, use the provided Die Screw Hex Key (1/8") to tighten both shoulder screws until they bottom out. No more than 1 ft-lb of torque is required. DO NOT force anything to fit together.

To remove dies:

1. Remove battery and engage/lock the Safety Switch.
2. Using the provided Die Screw Hex Key (1/8"), remove the die screws on the stationary and moveable jaws.
3. Slide the dies out of the tool and place them in a secure location. Replace the die screws until hand-tight. DO NOT overtighten if there are no dies installed in the tool.



OPERATIONS TEST

1. Ensure that dies are installed in the jaws and that all body parts are away from the pinch points prior to operating tool.
2. With a fully charged battery installed, disengage/unlock the Safety Switch and depress the Trigger until the dies are touching. Note: The motor should not turn ON at this time.
3. Continue to depress the Trigger. The motor will cycle ON. When the tool reaches the end of its cycle, the motor will automatically turn OFF. Release the Trigger and the motor will cycle ON in the reverse direction. When the tool is open, it will perform a brief auto-calibration procedure.

OPERATION

NOTE: Do not immerse the tool in water, as the BURNDY® PAT221 tool is not designed to operate underwater. This is considered abuse and will void the warranty. It is recommended to use the D-Ring to support the tool and prevent dropping the tool. Wrist strap is sold separately [pg. 13].

1. Install the appropriate die set per the DIE INSTALLATION instructions and locate the appropriate groove for the connector and cable combination being crimped. Rotate the die wheel so that the appropriate groove can be utilized.
2. Insert a battery into the tool and disengage/unlock the Safety Switch only after all body parts are clear of the jaw pinch points.
3. Position the tool properly on the connector. Make certain that the die is aligned over the crimp area indicators. Follow any other connector specific installation instructions.
4. Lightly depress the Trigger to move the jaws so that they hold the connector in place for wire/conductor insertion. DO NOT YET fully depress the Trigger.
5. Fully insert the wire/conductor into the connector.
6. While holding the wire in one hand with the tool gripping the connector in the jaws, fully depress and hold the Trigger to begin the crimping cycle.
7. Continue holding the Trigger until the motor stops, indicating that the crimp is complete.
8. Release the Trigger to begin the retraction operation. The jaws will fully open. Note: If the tool does NOT begin the retraction operation, the tool has not completed its crimping cycle. If Flutter Prevention [pg. 7] has not been activated, you may continue to fully depress the Trigger until the crimping operation is complete.
9. Confirm the die index and BURNDY® bug is embossed onto the connector after the crimp is completed for permanent inspection capability.
10. Continue crimping the connector until the proper number of crimps have been completed.

MAINTENANCE

CAUTION

Failure to perform regular maintenance tasks could result in bodily injury and/or property damage.

The service life of a tool can be greatly improved with proper care and maintenance. To extend the life of your BURNDY® PAT221 tool, follow the recommended maintenance tasks outlined below.

- Always remove the battery prior to working on the tool.
- Always keep the tool exterior clean. Remove dirt, debris, and other foreign substances from external surfaces daily to help prevent corrosion and damage to the tool and internal mechanism.
- Remove all surface contaminants. When surface contaminants cannot be removed with a cloth, spray jaws with a general-purpose cleaning solution to help loosen contaminants. The cleaning solution must be recommended for cleaning steel. Avoid getting solvents onto the plastic housing as some cleaners and solvents may damage the housing material or internal lubricants. Using a stiff brush, never metal, remove all contaminants in and around the jaw area and allow solvent to drain off tool.
- The Jaws must be fully retracted, and the Safety Switch engaged/locked before cleaning, removing, or installing dies.
- Inspect the tool for signs of cracks, wear, or damage.
- Wipe the tool with a clean, dry rag before placing the tool into the case.

SERVICE

WARNING

We do not recommend that you attempt to service or repair any tool yourself. Tool servicing by unqualified personnel will void the warranty and may lead to serious personal injury.

**DISASSEMBLY OF THE TOOL IS NOT RECOMMENDED.
DO NOT HESITATE TO CONTACT THE BURNDY® TOOL SERVICE CENTER FOR
SERVICING AND REPAIR RELATED QUESTIONS AT
1-800-426-8720 OR 1-603-444-6781.**



TROUBLESHOOTING

It is not recommended that the end user attempt to perform repairs on this tool, as specialized repair tools, training, and/or procedures may be required.





Should you have any questions or problems with your BURNDY® PAT221 tool, please do not hesitate to contact the Customer or Technical Service Departments by calling 1-800-346-4175 or the BURNDY® Tool Service Center for tool servicing and repair related questions at 1-800-426-8720 or 1-603-444-6781.

TROUBLESHOOTING GUIDE

SYMPTOM/PROBLEM	CAUSE	REMEDY
The Jaws do not close when Trigger is lightly pulled.	<ul style="list-style-type: none"> • Safety Switch is engaged. • Trigger is damaged. 	<ul style="list-style-type: none"> • Press the black Safety Switch toward the head of the tool to disengage. • Return to factory for repair.
The tool motor does not turn on when Trigger is fully pulled.	<ul style="list-style-type: none"> • Battery is not charged. • Trigger or Safety Switch is damaged. 	<ul style="list-style-type: none"> • Charge the battery according to the Battery Charger Instruction Manual provided with your tool. • Return to factory for repair.
Excessive or unusual noise from tool.	<ul style="list-style-type: none"> • Mechanical vibrations • Insufficient grease 	<ul style="list-style-type: none"> • Return to factory for repair. • Return to factory for repair.
Number of crimps per charge decreases with each battery recharge.	<ul style="list-style-type: none"> • Battery is too warm due to frequent discharge/recharge cycling. 	<ul style="list-style-type: none"> • Allow battery to cool to room temperature before recharging. • Alternate batteries often.
Trigger was pulled while the Safety Switch was unlocked and there were no dies installed, and now the Jaws do not reopen.	<ul style="list-style-type: none"> • Jam between Trigger and Jaws. 	<ul style="list-style-type: none"> • With no battery installed, squeeze the Jaws together while pushing the Trigger out. Then release the Jaws. • Never attempt to operate the tool without paired BURNDY® PAT221 dies.
Dies do not fit in the stationary/top or moveable/bottom Jaw.	<ul style="list-style-type: none"> • Mistaken assembly • The dies or tool is damaged. 	<ul style="list-style-type: none"> • Ensure the correct dies and die screws are being used for the correct top and bottom Jaws. • Return to factory for repair.

For further assistance, contact the BURNDY® Tool Service Center at 1-800-426-8720.

ALERT LIGHT (RED LED) GUIDE

PATTERN	TRIGGERING EVENTS	REMEDY
Slow blinking 	<ul style="list-style-type: none"> Emergency Release (pg. 6) The Trigger was pushed out while the Jaws were not in the open position.	<ul style="list-style-type: none"> The tool will automatically return the tool to the open position and then perform an auto-calibration.
Brief rapid blinking 	<ul style="list-style-type: none"> Flutter Prevention (pg. 7) The Trigger is depressed, released, depressed, and released before completing a crimp cycle. The tool will not continue to crimp until it has returned to the open position.	<ul style="list-style-type: none"> Push the Trigger out to begin an Emergency Release and wait for the tool to return to the open position. If the Battery was previously removed while the tool was not at the open position, the following return to the open position may take longer than usual as the tool carefully determines its position.
Solid Light - while attempting to crimp an invalid/ incorrect connector for the installed die/groove. 	<ul style="list-style-type: none"> High Current Detected The maximum force threshold was reached before the crimp was completed. Be sure to use only the recommended BURNDY® dies and connectors and ensure the correct die and crimp groove are selected.	<ul style="list-style-type: none"> Push the Trigger out to begin an Emergency Release and wait for the tool to return to the open position.
Solid Light - while attempting to crimp a valid/correct connector for the installed die/groove. 	<ul style="list-style-type: none"> Power Issue The tool has detected an internal error and shut down to prevent damage to itself and the battery.	<ul style="list-style-type: none"> Remove the battery and replace it with a fully charged battery. Push the Trigger out to begin an Emergency Release and wait for the tool to return to the open position. Return to factory for repair.



COMMONLY ASKED QUESTIONS

1. Q - How many crimps can I get before I need to recharge the battery?

It is very difficult to estimate the number of crimps you will get before recharging the battery. This will depend on many factors such as temperature, size, and type of material being crimped, how the tool is used, the weather, etc. (see below for more information).

The weather - Extreme cold temperatures can reduce the battery charge by up to 60%. Keep charged batteries in a warm place, but not in your pockets, since coins and other metal parts may contact the battery terminal strips, causing a short circuit. Warm weather users will find they get more crimps/cuts per charge than users in colder climates.

How you use the tool - If you make multiple crimps, one right after another, you will need more frequent battery recharging than if you make a few and pause a moment prior to crimping again. The vast number of variables makes it difficult to provide exact number of crimps per charge for every possible situation.

2. Q - How long will the batteries last?

Under ideal circumstances each battery could be recharged up to 1000 times before it will no longer accept a charge. This number may vary due to individual use and charging habits.

3. Q - Can the batteries be recycled?

YES! Once the battery no longer accepts a recharge, simply follow the recycling instruction included in this manual for proper recycling. If your local community or company has a recycling program, you may choose to contact them for instructions on recycling. Always properly dispose of spent batteries by following the manufacturers recommended recycling procedures. (See "BATTERY RECYCLING" section for details.)

4. Q - How far can the tool be dropped without damaging it?

The BURNDY® PAT221 tool has been designed to withstand drops of six feet; however, due to the endless angles at which a tool can be dropped, damage can still occur. The outer housing is designed of a high strength composite polymer plastic but can be broken depending upon the surface (pavement, grass, rocks, etc.) being dropped upon and/or the angle of impact. The internal working assemblies should survive without damage. We strongly recommend that a tool lanyard or wrist strap be used with the D-Ring to help prevent dropping the tool.

5. Q - How do I know when I've properly completed a crimp?

The BURNDY® PAT221 tool will stop automatically once it has reached the calibrated compression. One the Trigger is released the Jaws will open, then the tool performs brief impulse/haptic feedback when auto-calibration is complete and the tool is prepared for the next cycle.

6. Q - Does the tool require a charged battery to open the jaws?

YES, the BURNDY® PAT221 tool utilizes an electromechanical system which requires the motor to turn to return the tool to its initial open state.

Tips for maintaining maximum battery life

1. Charge the battery cartridge before completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.
2. Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
3. Charge the battery cartridge with room temperature at 10°C - 40°C (50°F - 104°F). Let a hot battery cartridge cool down before charging it.
4. Charge the Lithium-ion battery cartridge when you do not use it for more than 6 months.

**PARTS****Replacement Labels**

CATALOG NUMBER	DESCRIPTION
LBLPRODLPAT221	PRODUCT LABEL, LEFT
LBLWARNRPAT221	WARNING LABEL, RIGHT
LBSFTYPAT221	SAFETY (EMERGENCY RELEASE) LABEL, TOP
LBLCASEPAT221	CASE LABEL

Batteries and Charger

CATALOG NUMBER	DESCRIPTION
BAT18V2AHLI	BATTERY, MAKITA, 18V LI-ION, 2.0AH
BAT18VLI	BATTERY, MAKITA, 18V LI-ION, 3.0AH
BAT18V5AHLI	BATTERY, MAKITA, 18V LI-ION, 5.0AH
PATCHGRLI	CHARGER, MAKITA, 18V LI-ION, AC

Accessories

CATALOG NUMBER	DESCRIPTION
CASEPAT221	PAT221 CASE
PT10074020	WRIST STRAP

Die Sets

CATALOG NUMBER	DESCRIPTION
122WHL221	DIE WHEEL SET, #12 - #2 AWG
81WHL221	DIE WHEEL SET, #8 - #1 AWG

Terminals shown in "Accommodated Connectors" Table, when used with appropriate wire size and crimp groove, are UL Listed per UL486A/B.

ACCOMMODATED CONNECTORS						
COPPER WIRE SIZE	CONNECTOR TYPE	DIE INDEX COLOR CODE	MIN. NUMBER OF CRIMPS		DIE WHEEL SET	
			STD. BARREL	LONG BARREL	122WHL221	81WHL221
#10-14 AWG CLASS B,C #10-12 AWG SOL	YAD10- (T10-)	:: YELLOW	1	N/A	✓	-
#10-14 AWG CLASS B,C #10-14 AWG SOL	YAV10- YAZV10-			2		
#8 AWG COMPACT, CLASS B,C,G,H,I,K,M #6 AWG SOL	YA8C- YAV8C- YAZ8C-	49 RED	1	2	✓	✓
#6 AWG COMPACT, CLASS B,C #6 AWG COMPACT, CLASS B,C,G,H,I,K,M	YA6C- YAZ6C- YAV6C- YAZV6C-	7 BLUE	1	2	✓	✓
#4 AWG COMPACT, CLASS B,C #4 AWG COMPACT, CLASS B,C,G,H,I,K,M	YA4C- YAZ4C- YAV4C- YAZV4C-	8 GRAY	2	4	✓	✓
#3 AWG COMPACT, CLASS B,C #2 AWG SOL	YA3C- YAZ3C-	9 WHITE	2	4	✓	✓
#2 AWG COMPACT, CLASS B,C #2 AWG COMPACT, CLASS B,C,G,H,I,K,M	YA2C- YAZ2C- YAV2C- YAZV2C-	10 BROWN	2	4	✓	✓
#1 AWG COMPACT, CLASS B,C	YA1C- YAZ1C-					
		11 GREEN	2	4	-	✓



MAKITA BATTERY INFORMATION

When the battery pack is not in use, keep it away from other metal objects like paper clips, coins, keys, nails, screws, or other small metal objects that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.

Under abusive conditions, liquid may be ejected from the battery, avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.

IMPORTANT SAFETY INSTRUCTIONS FOR BATTERY CARTRIDGE:

1. Before using battery cartridge, read all instructions and cautionary markings on (1) battery charger, (2) battery, and (3) product using battery.
2. Do not disassemble battery cartridge.
3. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.
4. If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.
5. Do not short the battery cartridge: (1) Do not touch the terminals with any conductive material. (2) Avoid storing battery cartridges in a container with other metal objects such as nails, coins, etc. (3) Do not expose the battery cartridge to water or rain. A battery short can cause a large current flow, overheating, possible burns and even a breakdown.
6. Do not store the tool and battery cartridge in locations where the temperature may reach or exceed 50°C (122°F).
7. Do not incinerate the battery cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.
8. Be careful not to drop or strike the battery.

LITHIUM-ION (Li-ion) SHIPPING REGULATIONS:

Check with all organizations for current shipping regulations pertaining to Lithium Cells and Batteries prior to shipping. Review all country specific regulations on safe handling and shipping of Lithium Cells and Batteries prior to shipping. Organizations include:

- US Department of Transportation (DOT) 49CFR 173.185 Lithium Cells and Batteries
- International Civil Aviation Organization (ICAO) Dangerous Goods Technical Instructions on Lithium Batteries
- International Air Transport Association (IATA) Dangerous Goods Regulations on The Transport of Lithium Ion and Lithium Metal Batteries
- International Maritime Dangerous Goods (IMDG) Code 38-16 Lithium Batteries.

APPROVED BATTERY RECYCLING LOCATION:

BURNDY® encourages recycling of its products whenever feasible. Recycling regulations and methods vary within North America and BURNDY® does not endorse any one recycling method or company. Consumers that wish to recycle BURNDY® products in North America are asked to do so according to your local, state and federal regulations. Recycling resources for the United States can be found at the US EPA web site at the following link:

<http://www.epa.gov/recycle>

If you wish to recycle batteries, please use the above link and/or contact your local RBRC recycling center. If additional information is needed, please contact the BURNDY®, Littleton Tool Service Center.

When recycling batteries you must include a bill of lading to comply with all applicable state and federal requirements, or the recycling center may be forced to return the shipment at your expense. If you have any questions, please contact the recycling center directly.



The EPA certified RBRC Recycling Seal indicates BURNDY® is voluntarily participating in a program to recycle these batteries at the end of their useful life. The RBRC program provides a convenient alternative to placing batteries into the trash, which may be illegal in your area. Please call 1-800-822-8837 for more information. BURNDY® is committed to preserving our environment and conserving natural resources.

**SAFETY GUIDELINES FOR BATTERY COLLECTION
LITHIUM-ION BATTERIES**

- Used batteries may have a significant residual charge. It is important that they are prevented from short-circuiting. This can be done by placing the batteries separately in plastic bags or by placing non-conductive tape over the battery terminals.
- While these batteries are normally safe to handle, they do contain caustic materials that may have "vented" due to misuse during the life of the battery. If the battery appears to be "dirty" or have a white "film-like" substance around the terminal, exercise caution when handling the battery. Do not touch the dirty area. Wash your hands with soap and water if they feel itchy, and avoid touching your eyes, nose, mouth.
- Do not attempt to discharge the battery by short-circuiting the terminals, consult your battery supplier for proper instructions on discharging batteries.
- Do not bite or place the battery in your mouth or nose.
- Do not place wet batteries in a plastic bag. The trapped moisture will cause the battery to rust.



For more information contact:

BURNDY® TOOL SERVICE CENTER

150 Burndy Road

Littleton, NH 03561

1-800-426-8720

1-603-444-6781

Additional or replacement manuals may be obtained free of charge from the BURNDY® Tool Service Center.

PAT221SOMI
Rev. A
Item #50121182