

# POWERGUN™ (PG450)

## Lithium-ion Battery Operated Grease Gun

### INSTRUCTION MANUAL



#### Introduction

The Macnaught lithium-ion PG450 battery operated grease gun is a portable high pressure, high volume grease gun, supplied complete with 2 x lithium-ion batteries, battery charger, 1m long flexible extension and carry case.

#### Important Information

Visually inspect grease gun, charger and battery prior to use for any signs of damage, loose or missing parts. If equipment is worn or damaged, remove it from service. Contact an authorized service centre or distributor



#### **WARNING**

##### IMPORTANT INFORMATION

**Please read this information carefully before use.**

The "POWERGUN" high performance Li-ion grease gun and must be used strictly in accordance with Macnaught's terms and conditions.

'Cautions' are listed throughout this manual to advise of actions which may cause damage to your equipment.

Failure to follow all instructions listed below may result in electric shock, fire, serious injury and/or damage to the power tool. The term "power tool" in all of the warnings listed refers to your battery operated (cordless) power tool.

Make sure all operators have adequate access to the following instructions.

#### GENERAL SAFETY

Keep work area clean and well lit.

**DO NOT** operate power tools in explosive areas, e.g; close to flammable liquids, gases or dust.

##### ELECTRICAL SAFETY

Never modify electrical connections.

**DO NOT** expose power tool to rain or wet conditions.

Keep cord away from heat, oil, sharp edges or moving parts.

##### PERSONAL SAFETY

**DO NOT** use a power tool while you are tired or under the influence of drugs, alcohol or medication.



#### POWER TOOL USE AND CARE

**DO NOT** force the power tool.

**DO NOT** use power tool if the power tool is damaged or the switch does not turn the gun on and off.

Only use this power tool in accordance with the instructions provided.

#### Battery and Charger Safety Information



#### **WARNING**

If "battery-pack" case is damaged **DO NOT** charge. Danger of electric shock or electrocution.

**DO NOT** probe the unit - Danger of electric shock or electrocution.

The battery charger **MUST NOT** be used for any other use than for charging the rechargeable batteries supplied with the PG450.

**DO NOT** operate charger with a damaged power cord or plug, replace immediately.

**DO NOT** operate charger if it has received a sharp blow, or has been dropped. Take it to an authorized service centre.

**DO NOT** disassemble charger.

**DO NOT** store or use the tool and battery pack in locations where the temperature may reach or exceed 40°C/104°F.

**DO NOT** use charger on any other voltage than designated on the charger. 120/230/240 volts present at charging terminal.

**DO NOT** attempt to open the battery pack.

**DO NOT** charge battery that is fitted on any battery operated tool.

**ONLY** charge the battery with the charger provided.

## Battery Disposal

**NOTE:** Dispose of depleted batteries properly. The battery contains rechargeable Lithium-ion and must be recycled or disposed of properly. Please refer to the local authorities for the correct method of battery disposal.



**DO NOT** incinerate the battery pack. The battery can explode in a fire

**DO NOT** attempt to disassemble any battery.

## Charge Battery

**NOTE:** Improper storage, use and charge of battery may adversely affect performance or life of battery

The charger is a fast recharge type charger.

Green light on charger  
(power on)



Red light  
(charging)



Green light  
(fully charged)



## Insert / Remove Battery

**DO NOT** force battery if fitting or removing from gun.

Carefully slide battery into slot until it locks

Press button and carefully slide out to remove



## Select follower position

Lift rubber for bulk filling



Rubber down for cartridge



Push rod

## Installing Grease Cartridge

1) Remove barrel assembly



2) Pull out rod and lock



3) Remove top and bottom caps from cartridge



4) Slide cartridge into barrel



5) Re-fit barrel assembly to head



6) Unlock rod to energise follower



## Prime grease gun

1) Lock the follower rod (a) and push, at the same time press the bleed valve (b) to purge air from the system



(a)



(b)

2) Short Presses on trigger until Grease starts to flow



3) Still no grease flow  
a) Remove hose,  
b) Short presses on trigger until grease flows  
c) Refit hose assembly



4) Unlock follower rod and push into barrel



**Note:** Your PG450 is now ready for use

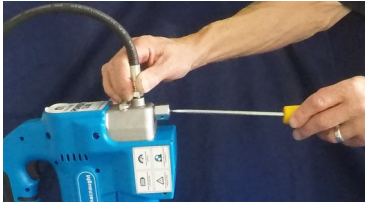
## High Pressure / High Volume Switch

H = High Volume (Normal Operating Setting)  
(Flowrate up to 120g/min / Pressure to 6,000psi)  
L = Low Volume (High Pressure setting if required)  
(Flowrate up to 35g/min / Pressure to 9,000psi)



## Pressure Relief Valve

Note: If grease prematurely flows under pressure from the valve.  
Turn the philips head screw clockwise to close valve.



## Overload Protection

The PG450 batteries are fitted with overload protection

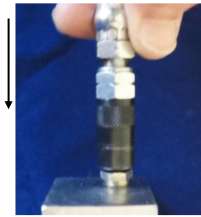
If the motor exceeds the maximum current, the motor will stop.

The motor to resume when safe to do so.

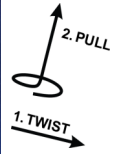


## KY Coupler Operation

Push on to attach



Twist and Pull to Remove



**NOTE:** Improper attachment of coupler may affect the creation of a leak free seal.

## Trouble Shooting Guide

### Fault: Gun fails to deliver grease or pressure

#### Cause:

- Air lock or
- Check valve ball not seating

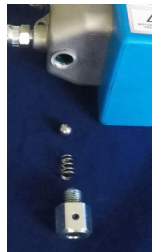
#### Remedy:

- Remove pressure relief valve
- Place your finger over the open port to prime, when grease flows replace the valve.



#### No pressure:

- Remove pressure relief valve (as above)
- Remove spring and ball and clean port ,
- Refit ball and using a small pin punch give the ball a light tap to reseal.
- Fit spring and pressure relief valve



### Fault: Continual loss of prime or pressure

#### Cause:

- Air pockets in the grease
- Follower sticking in cartridge
- Faulty outlet check valve

#### Remedy:

Refer to gun fails to deliver grease or pressure remedy procedure above.

### Fault: Motor does not run when trigger is pressed

#### Cause:

- Battery undercharged
- Faulty battery
- Electrical fault

#### Remedy:

- Charge battery- refer to charge battery procedure
- Try second battery (replace battery if faulty)
- Electrical fault - Take gun to closest service centre

### Fault: Grease leaking from pressure relief valve

#### Cause:

Faulty or incorrectly adjusted pressure valve

#### Remedy:

Refer to Pressure relief valve instructions:

## Replacement Parts

Description	Part No
3.0AH Battery	PGB-3A
3.0AH Charger	PGC-3A
1m Flexible Extension	PGH
Coupler	KY

## Specifications

Voltage DC	18 Volt Li-Ion
High Volume / Low Pressure	6.000 PSI (413 Bar), 150 g/min
Low Volume / High Pressure	9.000 PSI (620 Bar), 35 g/min
Grease Reservoir Capacity,	450g
Lubricant (Grease)	Up to NLG#2
Working Temperature,	32°F~104°F(0°C~40°C)
Battery Capacity,	3.0 Ah
Quick Charge,	1 Hour
Input Voltage,	220 Volt~240 Volt (50 Hz)
Oil Hose Length,	30 in. (76 cm)



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### Note:

This product should be disposed of according to all applicable local and national government environment regulations and guidelines.



**For Warranty Terms and Conditions see [macnaught.com.au](http://macnaught.com.au)**  
**For a list of Australian Service Centres see [macnaught.com.au](http://macnaught.com.au)**