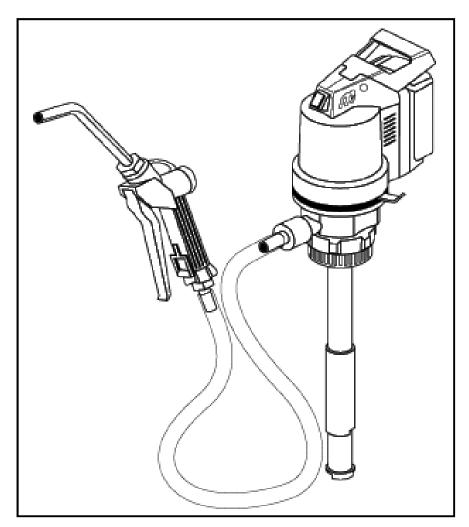


Owners Manual

"Original Instruction"



Starter Kit

Starter Kit	BOP20	BOP60
Australia	BP20S-OLA	BP60S-0LA
US	BP20S-OLU	BP60S-0LU
UK	BP20S-OLB	BP60S-0LB
EU	BP20S-OLE	BP60S-0LE

BP-inst-issue2

INTRODUCTION



Thank you for purchasing the Macnaught BOP battery operated pump.

Macnaught has designed and manufactured this pump to the highest quality standards using premium quality materials and workmanship.

PLEASE READ THIS SAFETY INFORMATION CAREFULLY BEFORE USE.

Read and retain this instruction manual to assist you in the operation of your new product.



WARNING

Please read this important information carefully before use.

This product should only be used with automotive oils and lubricants.

- Visually inspect pump, 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 (Replace if required).
- The BOP Battery operated pump must be used strictly in accordance with Macnaught's terms and conditions.
- 'WARNING' 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

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.
- **DO NOT** use product if the product is damaged or the switch does not turn the pump on.
- Only use "ORIGINAL" Macnaught replacement parts, battery or charger.

BATTERY and CHARGER SAFETY

Please follow instructions from battery and charger owners manual

- If "battery-pack" case is damaged **DO NOT** use Danger of electric shock or electrocution.
- Battery charger **MUST ONLY** be used for charging the rechargeable batteries supplied with the BOP.
- **DO NOT** operate charger if charger, power cord or plug is damaged replace immediately.
- **DO NOT** disassemble charger or battery.
- DO NOT store 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.

DISCLAIMER

Your product is designed to use with non-flammable automotive oil/lubricants only, with viscosity grades from 0W-40 to SAE90. Usage with different fluids may cause performance degradation and render the warranty void. Improper use of liquid may lead to machine failure and malfunction.

Use of any flammable fluids can cause sparks to explode and create a fire hazard. Macnaught bears no liability to the consequence of fluid misuse by customers.



WARNING

- Always place gun on hanger when pump is not in use, as oil spillage can cause a slipping hazzard.
- Keep plastic bag away from babies and children.
- Do not lift the power head with locking lever. Handle power head with care. DO NOT DROP.
- Make sure the power head is securely connected/attached to the stem.
- Do not leave the power head sitting on top of the stem unlocked.
- Stop operating the battery oil pump if any leakings at the joints are noticed.
- Do not modify the pump in any way.
- Only use a genuine Macnaught dispensing gun. Hand tighten the hose till its firm and check for any signs of leakage before use.
- Do not use flammable fluid in this product. Only use fluid specified in this instruction manual.
- Wear approprate PPE for protection.
- Do not use the product in potentially explosive atmosphere.
- Do not expose the product to fire and source of heat.
- Users should refer to MSDS of the fluid from supplier being used.
- Use product in well ventilated area.
- Never leave your dispensing gun unattended in open position. Do not attempt to use any means to lock the lever. Always ensure the switch is in off position after dispensing the oil.
- Use pump in adequate lighting condition for safe operation. Do not use the product under poor illumination.
- Avoid spillage of oil near water source as it may be harmful to the environment.
- Only use genuine Macnaught battery and chargers with this product.
 - Battery pack, charger and power head should be protected from water.



CAUTION

- * Do not expose the power head to a nearby magnet as its performance will be adversely affected.
- The battery operated pump should always be used in a vertical position.
- The dispensing gun should always be facing up when dispensing fluid.
- If the noise level changes check the hose to see if there is air present, if air is present stop the pump immediately as this indicates the drum is empty. Switch over to a new drum.



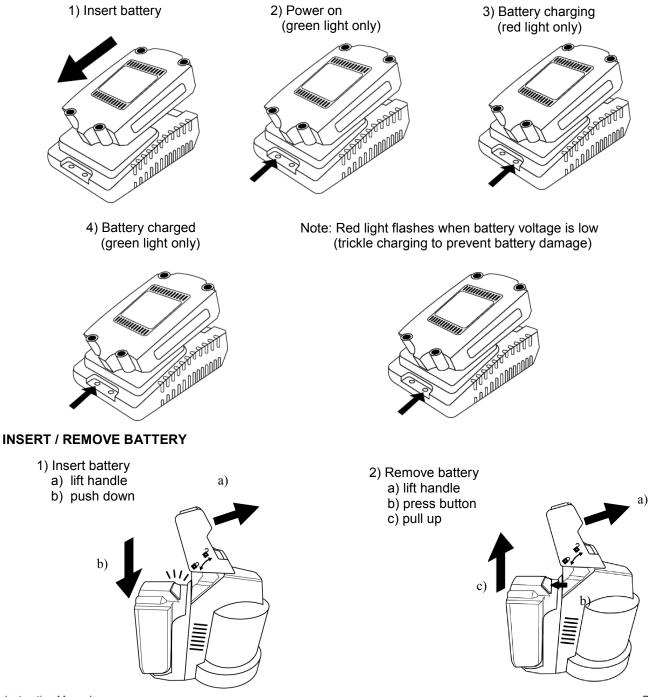
BATTERY DISPOSAL

NOTE: Dispose of old 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

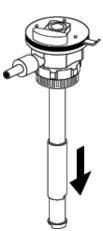




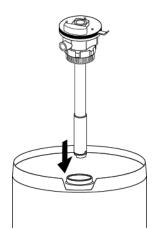


ASSEMBLY

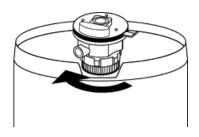
- Note: Remove both the inlet and outlet plugs from the pump stem befor use.
 - 1) Pull down extender tube



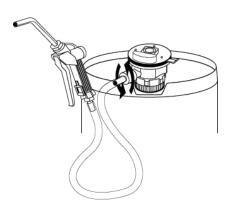
4) Attach hose and gun (ensure end gasket is in place) 2) Push the pump stem into container



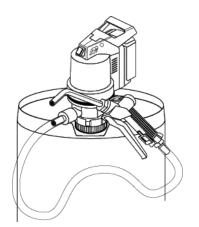
5) Ensure switch is off, then place power head onto pump stem 3) Tighten bung adapter to secure pump stem



6) Press handle down to lock power head

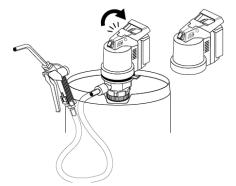


7) Place gun onto hanger when finished

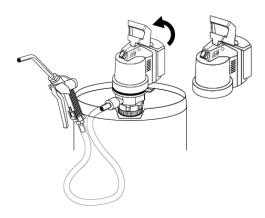




Note: Power head will not oprerate unless locked correctly into position.



8) To remove power head, lift handle.





OPERATING INSTRUCTIONS

OPERATION



CAUTION

NOTE: Do not allow the pump to run dry or pump damage can occur

IMPORTANT:

For initial operation

- Turn slot in shaft clockwise one complete turn with a flat head screwdriver.
- 2) First press the trigger on gun and then turn on the pump to prime. Release trigger when primed (fluid flows from gun).

Note:

Pump will not run when power head is not attached to pump stem correctly.

Pressure sensor will turn motor off when trigger is released and stall pressure is reached.

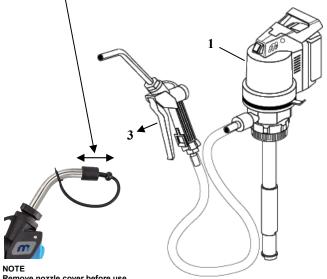
- 4) Power head can be moved from pump assembly to pump assembly.
- 5) Long storage periods :
 - a) Turn slot shaft 2 full turns counter clockwise using a flat head screwdriver.b) When starting pump after a long storage period, turn slot shaft clockwise with a flat head screwdriver.

GENERAL OPERATION

1) Attach power head to stem

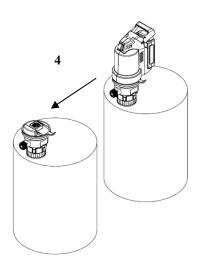


2) Remove nozzle cover before use



NOTE Remove nozzle cover before use Replace nozzle cover after use

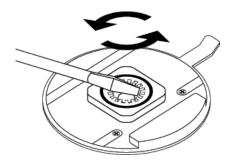
- 3) Press or Release trigger to adjust flow
- 4) Lift handle to transfer power head from stem to stem



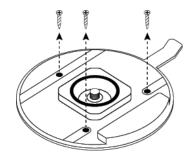


DIAPHRAGM AND SPRING REPLACEMENT

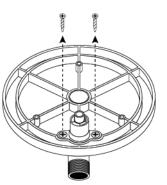
1) Turn anti-clockwise, remove drive gear



2) Remove 3 screws, pump cover and dispensing gun hanger



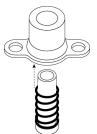
3) Remove 2 screws.



4) Remove assembly.



5) Remove circlip.

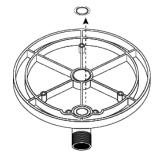


6) Replace spring.

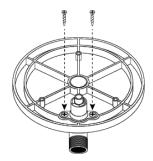




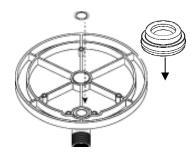
8) Remove old diaphragm.



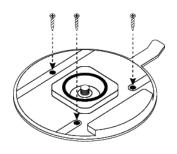
11) Fit 2 screws.



9) Fit new diaphragm. (ensure correct orientation)

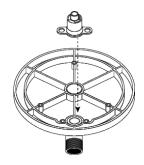


12) Fit pump cover and dispensing gun hanger, using 3 screws.

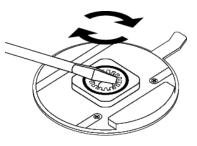


10) Fit valve switch assembly.

 \bigcirc



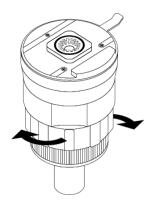
13) Fit drive gear, turn clockwise to secure.





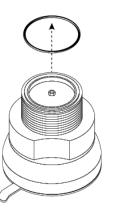
IMPELLER AND O'RING REPLACEMENT

1) Unscrew adapter

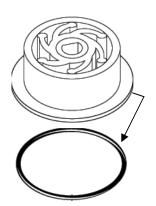


2) Remove o'ring.

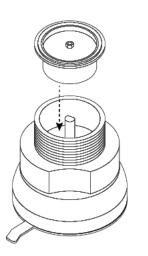
3) Remove impeller housing.

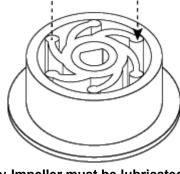


4) Remove o'ring.



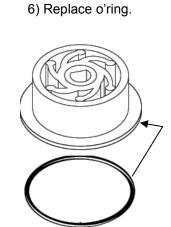
7) Carefully insert impeller housing. (Note correct orientation of grooves)



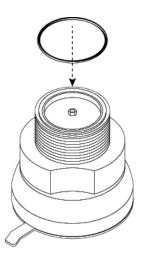


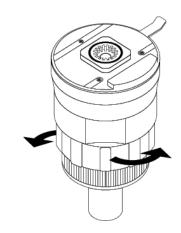
5) Carefully remove and replace impeller.

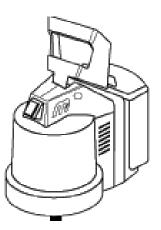
Note: Impeller must be lubricated with oil or grease during assembly.



- 8) Replace o'ring.
- 9) Firmly hand tighten pump tube.







Note: Power head is factory sealed and would need to be replaced if found to be damaged internally or externally.

Spare parts list

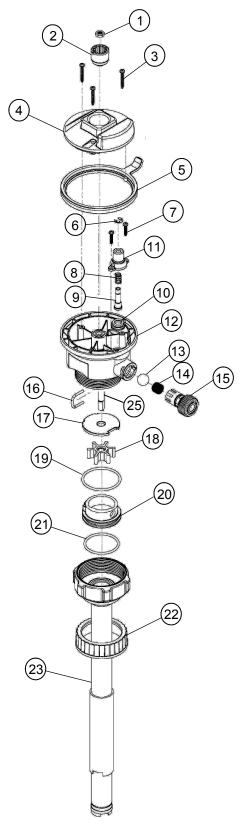
Item no	Kit Ref	No off	Description
BP20-1K	A		Pump Seal Kit
1		1	Nut (M6)
2		1	Connector
3		3	Screws (3.5 x 25)
4		1	Top pump stem cover
5		1	Dispensing gun hanger
6	A	1	Circlip
7		2	Screws (3.6 x 16)
8	A	1	Spring
9	A	1	Plunger
10	A	1	Diaphragm
11		1	Pressure switch housing
12		1	Housing - pump stem
13		1	Ball
14		1	Spring
15		1	Connector (outlet body)
16		1	U-Clip
17	A	1	Impeller cover
18	A	1	Impeller
19	A	1	O'ring
20	A	1	Impeller housing
21	A	1	O'ring
22		1	Bung adapter (type C)
23		1	Suction tube assembly
24	BP-HG	1	Gun and hose set (not shown)
25		1	Drive shaft

Note: Parts listed (A) are included in BP20-1K

Bung Adapter set 20ltr - order BP20-AK Bung Adapter set 60ltr - order BP60-AK



EXPLODED DIAGRAM



Instruction Manual

TROUBLESHOOTING GUIDE





TROUBLE	CAUSE	REMEDY
Pump does not turn on	a) Flat battery	a) Recharge battery
	b) Power head not attached correctly to pump	b) Re-fit power head correctly
	c) Faulty switch	c) Contact supplier
	d) Pump stem failure	d) Contact supplier
TROUBLE	CAUSE	REMEDY
Pump will not prime	a) Pump tube plug has not been removed before use.	a) Remove tube plug
	b) Damaged or worn impeller	b) Fit new impeller Note: Do not let the impeller run dry
	c) No oil in container	c) Check oil level in container
	d) Damaged gun or hose	d) Replace gun
D H	e) Damaged diaphragm	e) Replace diaphragm
TROUBLE	CAUSE	REMEDY
Power head does not stop when gun trigger is released		
	Damaged diaphragm or spring	Replace damaged diaphragm or spring
	Damaged or worn impeller	Replace impeller
	Gun leaking	Replace gun
	Damaged hose	Replace hose
	1	1



SPECIFICATIONS

Flowrate	3.5 l/min (0W-40 @ 20 deg C)
Operating Temperature	0°C - 40°C (32°F - 104°F)
Container Size	BOP20 (20ltr) / BOP60 (60ltr)
Fluid compatibility	Automotive oils / Lubricants
Max Viscosity	0W40 to 75W90
Self Priming	Yes
Shut off Pressure	20psi
Hose	12.5mm x 1.5m (5ft) wire reinforced PVC
Warranty - Pump and Power Head	2 Years
Warranty - Battery	12 Months
Wetted components	Nitrile rubber, Mild steel, Stainless steel, Nylon, Brass, Polypropylene, Zinc plated steel
Relative humidity	50% - 90%

Available Kits and Packs

	Australia	US	UK	EU
Starter Kit - 20ltr	BP20S-OLA	BP20S-OLU	BP20S-OLB	BP20S-OLE
Starter Kit - 60ltr	BP60S-OLA	BP60S-OLU	BP60S-OLB	BP60S-OLE
Pump Stem - 20ltr	BP20X-OLA		BP20X-OLB	BP20X-OLE
Pump Stem - 60ltr	BP60X-OLA			
Battery	BPB-20AH			
Power Head	BP20-PH			
Battery Charger	BPC-A	BPC-U	BPC-B	BPC-U



COMPLIANCE

MBC-US – US Battery Charger

This battery charger has been tested & verified by ETL Intertek to meet OSHA required safety standard.



FCC:

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/ TV technician for help.





EC Declaration of Conformity

		Le Deciarat	ion of comorning		
We:	Macnaught Pty.	Ltd. Of:	41-49 Henderson Street, Tu	rrella NSW 2205, Australia.	
Declare that: Battery oper		Battery operated oil pump B	erated oil pump BP20S-OL_w (_w: A-Z; i.e. B = Britain, E = Europe)		
		which consists the following	assemblies/components:		
		Power Head BP20-PH			
		Stem Assemblies & Hose Set	emblies & Hose Set BP20X-OL_x (-x: A-Z; i.e. B = Britain, E = Europe)		
		Li-Ion Battery Charger MBC	attery Charger MBC-yz. (-y, -z: A-Z; i.e. AU = Australia, EU = Europe, US = USA)		
		Li-Ion Battery MBP2000MA			
		(Lower case w, x, y and z are	used as variables to represent	t country specific models)	
In acco	rdance with:	Machinery Directive		2006/42/EC	
		Low Voltage Directive		2014/35/EU	
		Electromagnetic Compatibility Directive		2014/30/EU	
- C		Restriction of Hazardous Substance Directive		2011/65/EU as amended by	
				2015/863/EU	
		Waste Electrical and Electronic Equipment Directive		2012/19/EU	
		Battery Directive		2006/66/EC as amended by	
			10000	2013/56/EU	
have be	en designed and m	anufactured to the applicable	harmonised standards below:		
		EN ISO 12100: 2010			
CP	P20S-OL-w)	EN 809: 1999+A1: 2009/AC	2010		
	(BP20-PH)	EN55014-1: 2017			
	P20X-OL-x)	EN55014-2: 2015			
		EN60204-1: 2006+A1: 2009	/AC: 2010		
		EN60335-1: 2012+A11: 201	· 100 ·		

(MBC-yz)

EN62133-2: 2017 (MBP2000MAH) EN55032: 2015 EN55035: 2017

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specification. The product complies with all essential requirements of the Directives.

Signature	(Du	2lant	
Name:	Marco Uccellani	Position:	Engineering Manager

EN60335-2-29: 2004+A2: 2010

EN55014-1: 2006+A1:2009+A2:2011

EN62233: 2008

EN55014-2: 2015 EN61000-3-2: 2014 EN61000-3-3: 2013

Done at:

41-49 Henderson Street, Turrella NSW 2205, Australia.

ia. Date: 20/Mar/2019

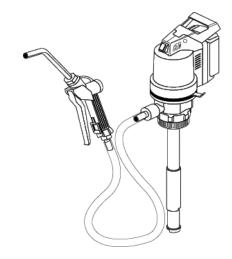


Notes:



Notes:







Head Office - Australia Macnaught Pty Limited ABN 66 000 075 785

41-49 Henderson St Turella, NSW, 2005 Sydney, Australia.

T: +61 2 9567 0401 F: +61 2 9597 7773 W: www.macnaught.com.au

Macnaught USA Inc (North & South America)

614 South Ware Blvd. Tampa, Florida, 33619 United States.

T: +1813 628 5506 F: +1813 628 5506 E: info@macnaught.com W: www.macnaughtusa.com

Note:

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

