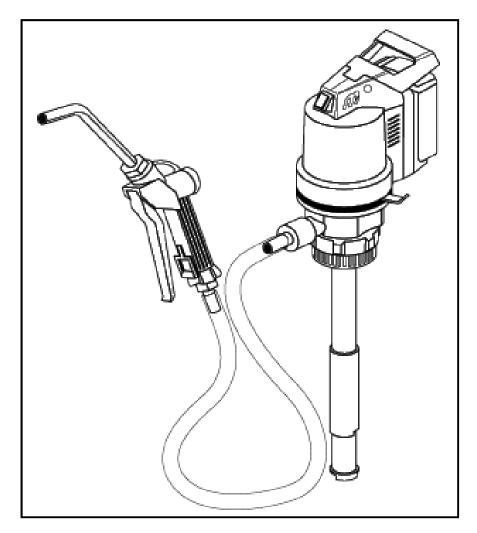


Owners Manual

"Original Instruction"



Starter Kit

Australia	BP20S-OLA
US	BP20S-OLU
UK	BP20S-OLB
EU	BP20S-OLE

BP-inst-issue7



INTRODUCTION

Thank you for purchasing the Macnaught BOP20 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 BOP20 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 BOP20.
- 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) W-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.



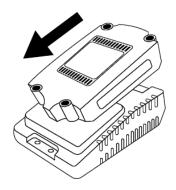


DO NOT incinerate the battery pack. The battery can explode in a fire

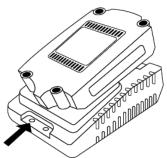
DO NOT attempt to disassemble any battery.

CHARGE BATTERY

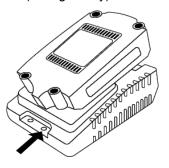
1) Insert battery



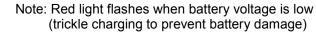
2) Power on (green light only)

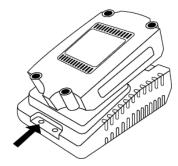


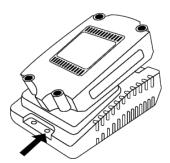
3) Battery charging (red light only)



4) Battery charged (green light only)





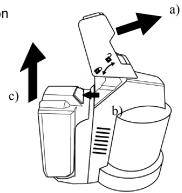


INSERT / REMOVE BATTERY

1) Insert battery

a) lift handle b) push down

- 2) Remove battery
 - a) lift handle
 - b) press button
 - c) pull up

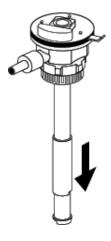




ASSEMBLY

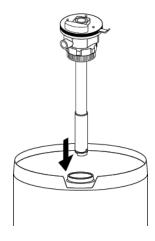
Note: Remove both the inlet and outlet plugs from the pump stem befor use.

1) Pull down extender tube



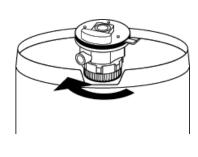
4) Attach hose and gun (ensure end gasket is in place)

2) Push the pump stem into container

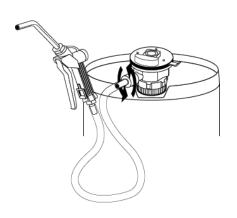


5) Ensure switch is off, then place power head onto pump stem

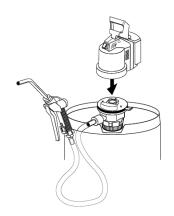
3) Tighten bung adapter to secure pump stem



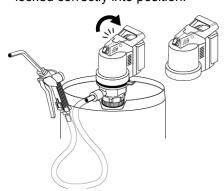
6) Press handle down to lock power head



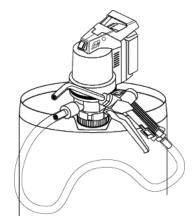
7) Place gun onto hanger when finished



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



8) To remove power head, lift handle.





OPERATING INSTRUCTIONS OPERATION



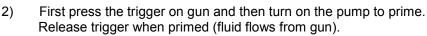
CAUTION

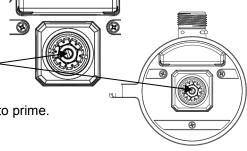
NOTE: Do not allow the pump to run dry or pump damage can occur

IMPORTANT:

For initial operation

 Turn slot in shaft clockwise one complete turn with a flat head screwdriver.





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

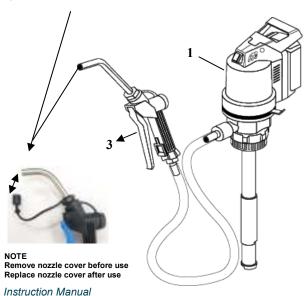
1) Attach power head to stem

3) Press or Release trigger to adjust flow

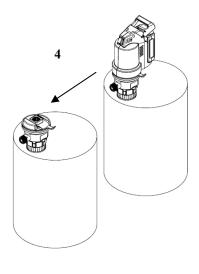


CAUTION

2) Remove nozzle cover before use



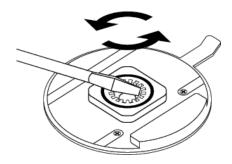
4) Lift handle to transfer power head from stem to stem



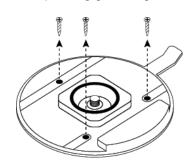


DIAPHRAGM AND SPRING REPLACEMENT

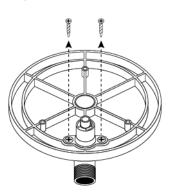
1) Turn anti-clockwise, remove drive gear



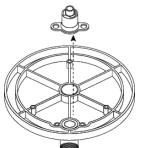
2) Remove 3 screws, pump cover and dispensing gun hanger



3) Remove 2 screws.



4) Remove assembly.

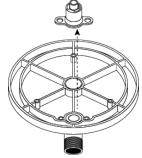


5) Remove circlip.



6) Replace spring.

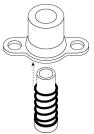




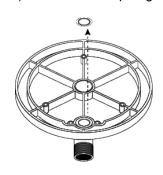
8) Remove old diaphragm.



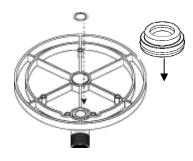
9) Fit new diaphragm. (ensure correct orientation)



10) Fit valve switch assembly.



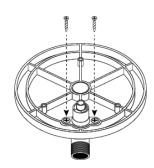
11) Fit 2 screws.

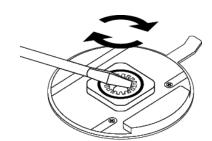


12) Fit pump cover and dispensing gun hanger, using 3 screws.



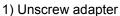
13) Fit drive gear, turn clockwise to secure.

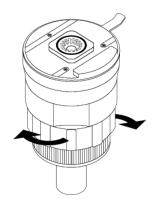


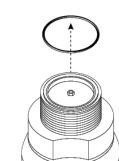




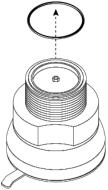
IMPELLER AND O'RING REPLACEMENT



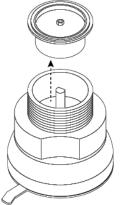




2) Remove o'ring.



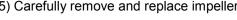
3) Remove impeller housing.

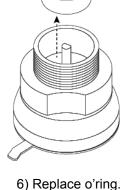


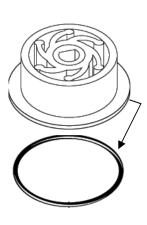
4) Remove o'ring.

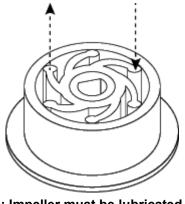


5) Carefully remove and replace impeller.

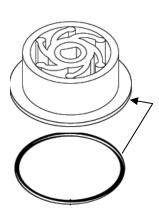






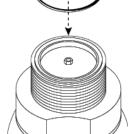


Note: Impeller must be lubricated with oil or grease during assembly.



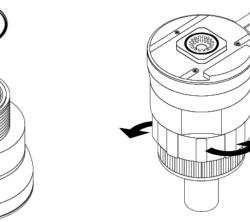
7) Carefully insert impeller housing. (Note correct orientation of grooves)



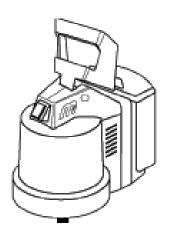


8) Replace o'ring.

9) Firmly hand tighten pump tube.









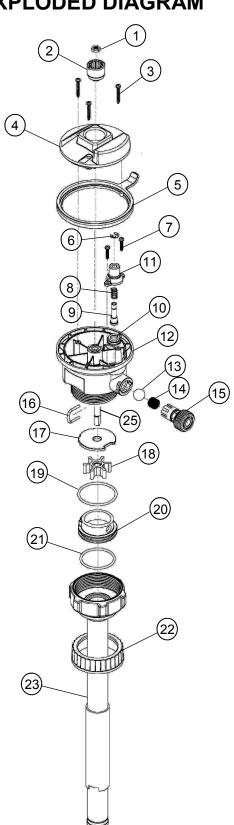
EXPLODED DIAGRAM

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	Α		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	Α	1	Circlip		
7		2	Screws (3.6 x 16)		
8	Α	1	Spring		
9	Α	1	Plunger		
10	Α	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	Α	1	Impeller cover		
18	Α	1	Impeller		
19	Α	1	O'ring		
20	Α	1	Impeller housing		
21	Α	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		

Parts listed (A) included in BP20-1K seal kit



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	
3	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	
n 2	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	
		•	



SPECIFICATIONS

Flowrate	3.5 l/min (0W-40 @ 20 deg C)
Operating Temperature	0°C - 40°C (32°F - 104°F)
Container Size	20ltr
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	BP20S-OLA	BP20S-OLU	BP20S-OLB	BP20S-OLE	
Pump Stem	BP20X-OLA				
Battery Charger	BPC-A	BPC-U	ВРС-В	BPC-E	
Battery	BPB-20AH				
Power Head	BP20-PH				



COMPLIANCE

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

We:

Macnaught Pty. Ltd.

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

Declare that:

Battery operated 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 BP20X-OL-x (x: A-Z; i.e. B = Britain, E = Europe) Li-Ion Battery Charger MBC-yx (x: A-Z; i.e. AU = Australia, EU = Europe, US = USA)

Li-Ion Battery MBP2000MAH

(Lower case w, x, y and z are used as variables to represent country specific models)

In accordance with:

Machinery Directive

2006/42/EC

Low Voltage Directive

2014/35/EU

Electromagnetic Compatibility Directive

2014/30/EU

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

2013/56/EU

have been designed and manufactured to the applicable harmonised standards below:

EN ISO 12100: 2010

(BP20S-OL-w)

EN 809: 1999+A1: 2009/AC: 2010

(BP20-PH)

EN55014-1: 2017 EN55014-2: 2015

(BP20X-OL-x) EN

EN60204-1: 2006+A1: 2009/AC: 2010

EN60335-1: 2012+A11: 2014 EN60335-2-29: 2004+A2: 2010

EN62233: 2008

(MBC:yz)

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

EN55014-2; 2015 EN61000-3-2; 2014

EN61000-3-3: 2013

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

Name:

Marco Uccellani

Position:

Engineering Manager

Done at:

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

Date: 20/Mar/2019

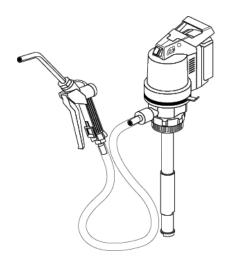


Notes:



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

Note

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



For Warranty Terms and Conditions see macnaught.com.au For a list of Australian Service Centres see macnaught.com.au

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