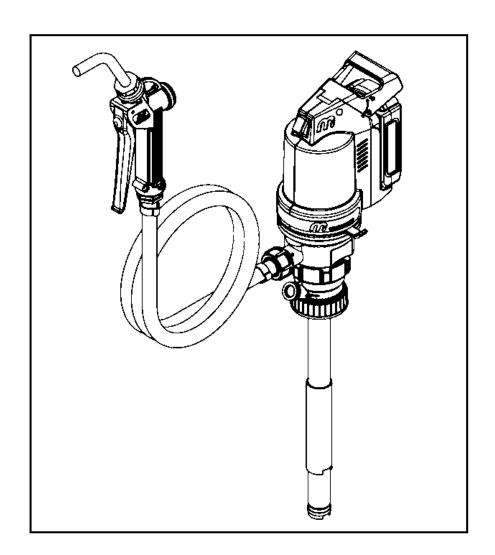






Instruction Manual





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.
- When moving drum, check area for spillage and clean up any liquid on floor as this will cause a slippery hazzard
- 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.



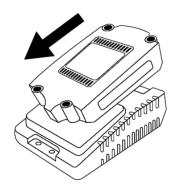


DO NOT incinerate the battery pack. The battery can explode in a fire

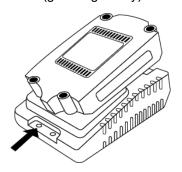
DO NOT attempt to disassemble any battery.

CHARGE BATTERY

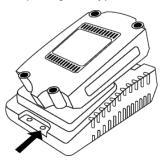
1) Insert battery



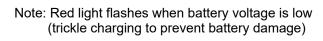
2) Power on (green light only)

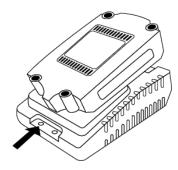


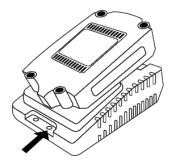
3) Battery charging (red light only)



4) Battery charged (green light only)





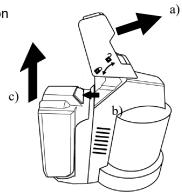


INSERT / REMOVE BATTERY

1) Insert battery

a) lift handle b) push down

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

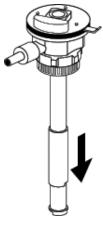




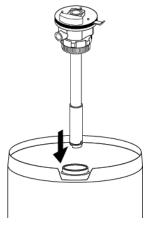
ASSEMBLY

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

1) Pull down extender tube



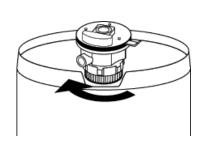
into container



2) Push the pump stem

secure pump stem

3) Tighten bung adapter to

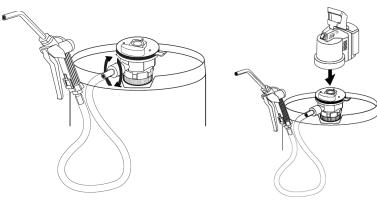


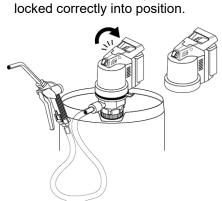
4) Attach hose and gun (ensure end gasket is in place)

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

6) Press handle down to lock power head

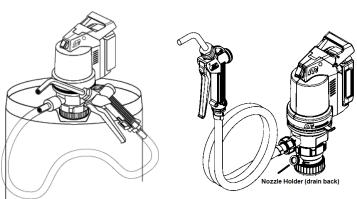
Note: Power head will not oprerate unless



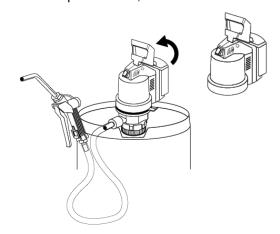


7) Place gun onto hanger when finished

Note: If nozzle holder is fitted, place nozzle into holder when finished.



8) To remove power head, lift handle.



Instruction Manual Page 5

OPERATING INSTRUCTIONS OPERATION





CAUTION

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

IMPORTANT:

For initial operation

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

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.

If you use the high viscosity pump on low viscosity oils you may need to manually prime the system before use

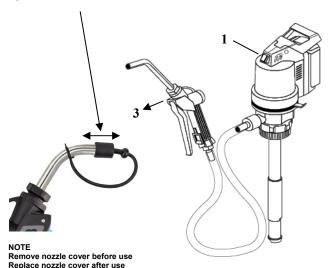
GENERAL OPERATION

1) Attach power head to stem

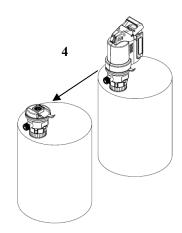


CAUTION

2) Remove nozzle cover before use



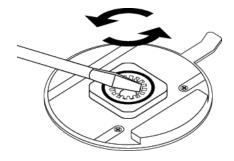
- 3) Press or Release trigger to adjust flow
- 4) Lift handle to transfer power head from stem to stem



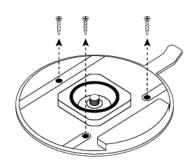


DIAPHRAGM AND SPRING REPLACEMENT

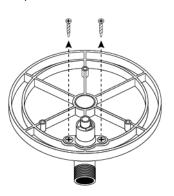
1) Turn anti-clockwise, remove drive gear



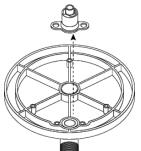
2) Remove 3 screws, pump cover and dispensing gun hanger



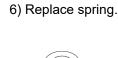
3) Remove 2 screws.



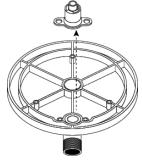
4) Remove assembly.



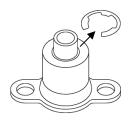
5) Remove circlip.



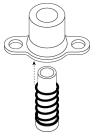
7) Re-fit circlip.



8) Remove old diaphragm.



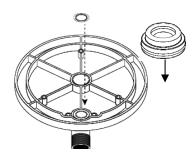
9) Fit new diaphragm. (ensure correct orientation)



10) Fit valve switch assembly.



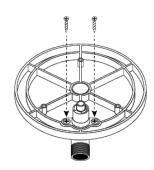
11) Fit 2 screws.



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



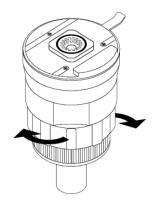
13) Fit drive gear, turn clockwise to secure.



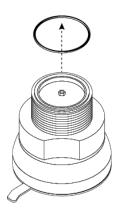


IMPELLER AND O'RING REPLACEMENT

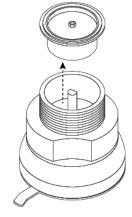




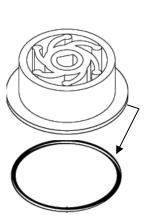
er 2) Remove o'ring.



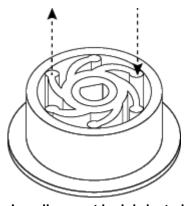
3) Remove impeller housing.



4) Remove o'ring.

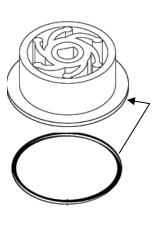


5) Carefully remove and replace impeller.

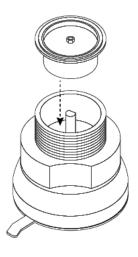


Note: Impeller must be lubricated with oil or grease during assembly.

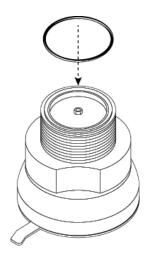
6) Replace o'ring.



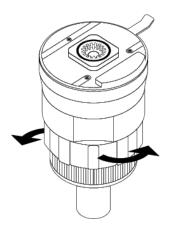
7) Carefully insert impeller housing. (Note correct orientation of grooves)

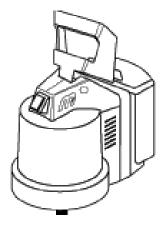


8) Replace o'ring.



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 | | Pump Kit Ref | | No off | Description | |
|---------|----------|----------------|---------|--------|-------------------------|--|
| | Standard | High Vis / ATF | Coolant | | | |
| | BP-1K | BP-2K | BP-3K | | | |
| | Α | В | С | | Pump Seal Kit | |
| 1 | | | | 1 | Nut (M6) | |
| 2 | | | | 1 | Connector | |
| 3 | | | | 3 | | |
| 4 | | | | 1 | Screws (3.5 x 25) | |
| | | | | | Top pump stem cover | |
| 5 | | _ | | 1 | Dispensing gun hanger | |
| 6 | Α | В | С | 1 | Circlip | |
| 7 | | _ | | 2 | Screws (3.6 x 16) | |
| 8 | Α | В | С | 1 | Spring | |
| 9 | Α | В | С | 1 | Plunger | |
| 10 | Α | В | С | 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 | В | С | 1 | Impeller cover | |
| 18 | Α | В | С | 1 | Impeller | |
| 19 | Α | В | С | 1 | O'ring | |
| 20 | Α | В | С | 1 | Impeller housing | |
| 21 | Α | В | С | 1 | O'ring | |
| 22 | | | | 1 | Bung adapter (type C) | |
| 23 | | | | 1 | Suction tube assembly | |
| 24 | | | | 1 | Drive shaft | |
| 25 | Α | В | С | 1 | O'ring | |
| 26 | | | | 1 | Spring | |
| 27 | Α | В | С | 1 | O'ring | |
| 28 | | _ | - | 1 | Check valve | |
| 29 | | | | 1 | Drain back collar | |

Gun / Hose set

BP-HG - Standard / ATF / Coolant BP-HGHV - High Viscosity

Sealt kits

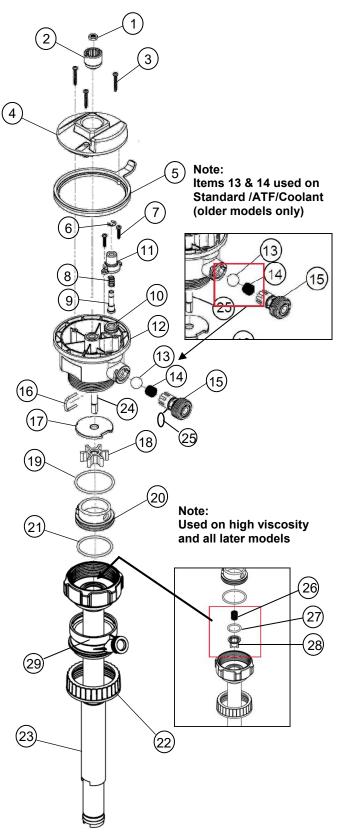
Standard pump - includes parts listed (A) - BP-1K Hi Viscosity / ATF - includes parts listed (B) - BP-2K Coolant pump - includes parts listed (C) - BP-3K

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

Bung Adapter for 20ltr drum with pull out spout - order BP037s

macnaught macnaught

EXPLODED DIAGRAM



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 |
| | 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

Low to Medium Viscosity Oil

High Viscosity Oil

| Flowrate | * 3.5 l/min (0W-40 @ 20 deg C) | *2 l/min (85W-140 @ 20 deg C) | | | |
|--------------------------------|---|-------------------------------|--|--|--|
| Operating Temperature | 0°C - 40°C (32°F - 104°F) 10-40 deg C | | | | |
| Container Size | Models available to suit 20ltr and 60ltr containers | | | | |
| Fluid compatibility | Automotive oils | / Lubricants | | | |
| Max Viscosity | SAE 0W40 to 75W90 | Up to SAE 85W-140 | | | |
| Self Priming | Yes | | | | |
| Shut off Pressure up to | 20psi | 15psi | | | |
| Hose | 12.5mm x 1.5m (5ft) wire reinforced PVC 19mm x 1.5m (5ft) wire r | | | | |
| 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% | | | |
| Hook Colour | pok Colour Black Yellow | | | | |

ATF Model

Cootant Model

| | All Wodel | Coolant Model | | | |
|--------------------------------|--|--|--|--|--|
| Flowrate | * 4.5 I/min (ATF @ 20 deg C | * 5.8 l/min @ 20 deg C | | | |
| Operating Temperature | 0°C - 40°C (32°F - 104°F) | | | | |
| Container Size | Models available to suit | t 20ltr and 60ltr containers | | | |
| Fluid compatibility | ATF | Coolant (Premix or Concentrate) | | | |
| Max Viscosity | ATF | Coolant | | | |
| Self Priming | Yes | 3 | | | |
| Shut off Pressure up to | 15psi | | | | |
| 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 | Nitrile rubber, Mild steel, Stainless steel, Nylon, Brass, Polypropylene, PPS, Zinc plated steel | | | |
| Relative humidity | 50% - 90% | | | | |
| Hook Colour | Red | Green | | | |

^{*} Flow rates are a guide only and any variations can depend on temperatture and fluid viscosity

Pump Stem Lengths

20ltr - 297mm (extended 395mm)

60ltr - 520mm (extended 618mm)



Available Kits and Packs

| Low to Medium Viscosity oil | Australia | US | JAP | UK | EU |
|-----------------------------|-----------|-----------|-----------|-----------|-----------|
| Starter Kit - 20ltr | BP20S-OLA | BP20S-OLU | BP20S-OLJ | BP20S-OLB | BP20S-OLE |
| Starter Kit - 60ltr | BP60S-OLA | BP60S-OLU | BP60S-OLJ | BP60S-OLB | BP60S-OLE |
| Battery | BPB-20AH | | | | |
| Power Head | | | BP20-PH | | |
| Battery Charger | BPC-A | BPG | C-U | BPC-B | BPC-U |

| Low to Medium Viscosity oil | Australia | US | JAP | UK | EU |
|-----------------------------|-----------|----|-----------|-----------|-----------|
| Pump Stem - 20ltr | BP20X-OLA | | BP20X-OLJ | BP20X-OLB | BP20X-OLE |
| Pump Stem - 60ltr | | | BP60X-OLA | | |

| High Viscosity | Australia | US | JAP | UK | EU | |
|---------------------|-----------|-----------|-----------|-----------|-----------|--|
| Starter Kit - 20ltr | BP20S-OHA | BP20S-OHU | BP20S-OHJ | BP20S-OHB | BP20S-OHE | |
| Starter Kit - 60ltr | BP60S-OHA | BP60S-OHU | BP60S-OHJ | BP60S-OHB | BP60S-OHE | |
| Battery | | BPB-20AH | | | | |
| Power Head | | | BP20-PH | | | |
| Battery Charger | BPC-A | ВР | C-U | BPC-B | BPC-U | |

| High Viscosity | Australia | US | JAP | UK | EU |
|-------------------|-----------|----|-----------|-----------|-----------|
| Pump Stem - 20ltr | BP20X-OHA | | BP20X-OHJ | BP20X-OHB | BP20X-OHE |
| Pump Stem - 60ltr | | | BP60X-OHA | | |

| ATF | Australia | US | UK | EU |
|-------------------|-----------|-------|-------|-------|
| Pump Stem - 20ltr | BP202 | X-ALA | BP20 | X-ALE |
| Pump Stem - 60ltr | | BP60 | X-ALA | |

COOLANT

| Pump Stem - 20ltr | BP20X-COA |
|-------------------|-----------|
| Pump Stem - 60ltr | BP60X-COA |



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.





UK Declaration of Conformity

We: Macnaught Pty. Ltd.

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

Declare that:

Battery operated oil pump BP:0S & BP60S

which consists the following assemblies/components:

Power Head BP20-PH

Stem Assemblies & Hose Set EP20X & BP60X

Li-Ion Battery Charger MBC Li-Ion Battery MBP2000MAH

In accordance with:

Machinery Directive 2006/42/EC
Low Voltage Directive 2014/35/EU
Electromagnetic Compatibilit* Directive 2014/30/EU

Restriction of Hazardous Substance Directive

2011/65/EU as amended by

2015/863/EU 2012/19/EU

Waste Electrical and Electronic Equipment Directive 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 & BP60S)

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

(BP20-PH)

EN55014-1: 2017 EN55014-2: 2015

(BP20X & BP60X)

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

EN60335-1: 2012+A11: 2014 EN60335-2-29: 2004+A2: 2013

EN62233: 2008

EN55014-1: 2006+A1:2009+#2:2011

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

EN61000-3-2: 2014 EN61000-3-3: 2013

EN62133-2: 2017

(MBP2000MAH)

(MBC)

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 22*5, Australia.

Date: 23/Jun/2021

COM-D/MG/PIM/UKCA-BOP_Rt QA-CN7444 Israed by: R.Khun





EU Declaration of Conformity

We:

Macnaught Pty. Ltd.

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

Declare that:

Battery operated oil pump BP20S & BP60S

which consists the following assemblies/components:

Power Head BP20-PH

Stem Assemblies & Hose Set BP20X & BP60X

Li-Ion Battery Charger MBC Li-Ion Battery MBP2000NAH

In accordance with:

Machinery Directive

Low Voltage Directive

2014/35/EU

Electromagnetic Compatibility Directive

2014/30/EU

2006/42/EC

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 & BP60S)

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

(BP20-PH)

EN55014-1: 2017

EN55014-2: 2015 (BP20X & BP60X)

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

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

EN62233: 2008

(MBC)

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

Posttion:

Engineering Manager

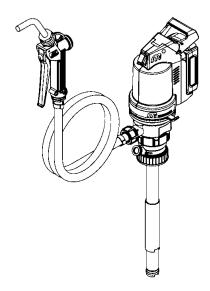
Done at:

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

Date: 23/Jun/2021

COM-D/MG/PIM/CE-BOP_R4 QA-CN7464 Issued by: B.Khan







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

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 For a list of Australian Service Centres see macnaught.com.au

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