

VULCAN

BY: **BIANCO PUMPZ**[®]

Engine Driven Pumps Instruction Manual

809993 – BIA-MH15SHP

809994 – BIA-MH215-SHP

809995 - BIA-MH10-2

809996 – BIA-MH30-2



BIA-MH15SHP



BIA-MH15-SHP



BIA-MH10-2



BIA-MH30-2

1. Introduction

Congratulations on your purchase of a Vulcan Engine Driven Pump. Vulcan offers performance, dependability, and reliability.

This instruction manual describes the installation, usage and maintenance of the pump and provides important safety information. Keep your manual in a convenient place for quick reference. This manual should be considered as a permanent part of this pump and should remain with the pump if it is sold.

These instructions and the accompanying engine manufacturer's instructions should be carefully read prior to pump installation and operation.

- Your pump is fitted with a four stroke engine which requires lubricating oil in the sump.
- Petrol engines require unleaded petrol in the fuel tank.
- Read all instructions to avoid equipment failure which may not be covered by warranty or guarantee.
- Fill engine sump with oil and the pump with water before starting.

Engine: Fill sump with oil to correct level before starting the four stroke engine. Operation of the engine driven pump at high altitudes, high temperatures and/or high humidity will reduce engine performance.

2. Key Features

The Bianco VULCAN Engine Driven Pumps have been designed for harsh conditions. Utilizing the latest HONDA Engine Motors makes them industry leading.

Special features:

- Reputable World Leading Motor for Optimum Performance
- Light Weight Construction with Ergonomic Carry Handles
- Self-Priming Pump fitted with durable Mechanical Seal
- Manufactured in Australia using High Quality Parts

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4. Cautions

Important notice for Honda Petrol motors:




Honda petrol powered engines fitted to self priming pumps have an automatic oil level cut-out which will stop the engine and/or prevent starting when the oil level is low and/or when the engine is tilted.

IN EMERGENCY CIRCUMSTANCES ONLY:









Oil level cut-out may be disabled by disconnecting yellow lead to starting switch at 'bullet' junction.

NOTE: Warranty from the engine manufacturers may be jeopardised by such actions and should the engine run without lubricating oil it will substantially shorten engine life and may cause permanent engine failure within a very, very short time period.

5. ISO 7010 Symbols used in this manual

	Warning – Potential consequences of use outside of intended application(s). Includes environmental condition warnings.
	Mandatory warning
	Read carefully

6. Warnings

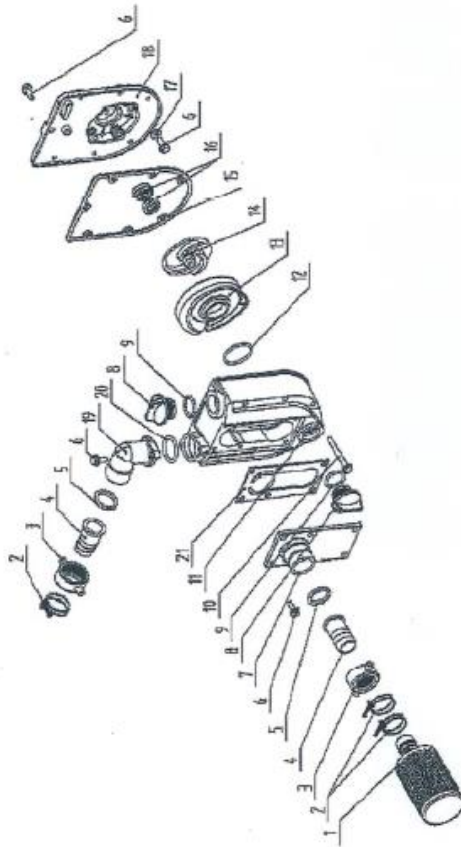
	Read the manual carefully before starting and retain for future reference. Failure to follow all instructions may result in personal injury or product damage.
	Warning – Carbon Monoxide produced during use can kill. Do not use indoors or near confined areas where heavier than air carbon monoxide can accumulate like underground tanks and wells.
	Be sure that you are familiar with quick stop procedures and control operation of the water pump.
	Do not touch the hot muffler while the machine is working. Move the machine when it's stopped and cooled down.
	To prevent fire hazards, keep at least 1 meter of clearance on all sides of this machine during operation.
	This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.
	To avoid excessive thermal shock to the motor the pump should not start more than 20 times in any one-hour period.
	Ensure that the installation will comply with all applicable local regulations.

7. Technical Specifications

MODEL	MH10-2	MH15-SHP	MH215-SHP	MH30-2
Engine	Honda GX25TWAU	Honda GX160	Honda GX200	Honda GX160
Starting system	Recoil			
Fuel Tank Capacity (L)	0.58	3.1		
Suction size	1"	1.5"		3"
Discharge size	1"	2 x 1" & 1 x 1.5"		3"
Max Head (m)	33	74.5		32
Max Flow rate (L/m)	130	390	570	1000
Fuel type	Unleaded Petrol			
Dimensions (WxLxHmm)	200x330x265	410x510x425		370x520x420
Dry weight (kg)	6.2	24	27	
Self priming	Yes			

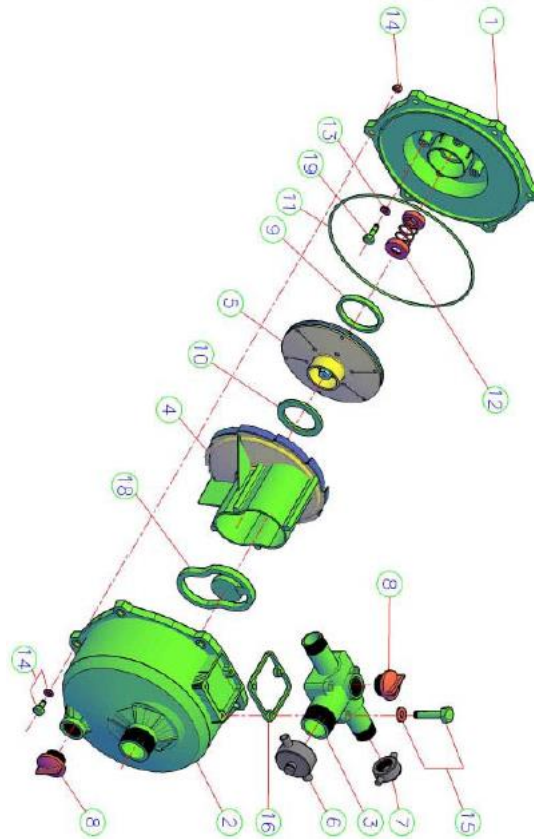
8. Parts Breakdown

MH10-2



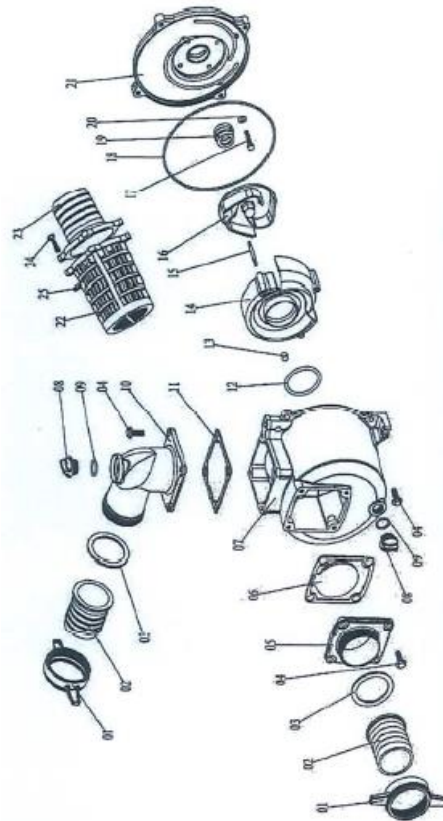
No	Part No	Description	Qty
1	5HL. 25ZB. 027	Filter net	1
2	5HL. 25ZB. 032	Clamp	3
3	8HL. 25ZB. 011	Joint grip	2
4	8HL. 25ZB. 020	Pipe joint	2
5	8HL. 25ZB. 016. 2	Rubber packing	2
6	8HL. 25ZB-H. 025. 1	Bolt M6*16	8
7	8HL. 25ZB-H. 009	Suction flange	1
8	8HL. 25ZB-H. 015	Plug	2
9	8HL. 25ZB-H. 017. 3	Plug packing	2
10	8HL. 25ZB-H. 025. 2	Bolt M6*55	2
11	8HL. 25ZB-H. 004	Pump body	1
12	8HL. 25ZB-H. 025. 3	Bolt M6*65	4
13	8HL. 25ZB-H. 017. 2	Rubber packing ring	1
14	8HL. 25ZB-H. 007	Diffuser	1
15	8HL. 25ZB-H. 006. 1	Impeller	1
16	8HL. 25ZB-H. 016	Rubber packing	1
17	5HL. 25ZB-H. 022	Mechanical seal	1
18	GB/T 5789-1986	Bolt M5*30	4
19	8HL. 25ZB. 026	Aluminium washer	4
20	8HL. 25ZB-H. 005	Pump cover	1
21	GB/T 93-1987	Spring washer ϕ 6	1
22	GB/T 5781-2000	Bolt M6*25	1
23	8HL. 25ZB-H. 010	Discharge flange	1
24	8HL. 25ZB-H. 017. 1	Rubber pad	1
25	5HL. 25ZB-H. 021	Clap door	1

MH15-SHP &
MH215-SHP



No	Part No	Description
1	Pump body (back)	15-01-SHP
2	Front cover	15-02-SHP
3	3 way outlet	15-03-SHP
4	Diffuser (Impeller Housing)	15-04-SYHP
5	Impeller	15-05-SHP-01
6	Cover (big) Black	15-06-SYHP
7	Cover (small) Black	15-07-SYHP
8	Plastic Plug Red	15-08-SYHP
9	Seal A (Rear)	15-09-SYHP
10	Seal B (Front)	15-10-SYHP
11	O-Ring	15-11-SYHP
12	Mechanical Seal 5/8"	15-12-SHP
13	Gasket with Nylon	15-13-SYHP
14	Bolt M10 x 35 Washer & Nut	15-14-SYHP
15	Bolt M10 x 60 Washer & Nut	15-15-SYHP
16	Gasket for 3-way outlet	15-16-SYHP
17	Rubber foot	15-17-SYHP
18	Flapper valve	15-18-SYHP
19	Bolt 5/16 x 1 1/2 UNF S/S	15-19-SYHP
20	Frame R&D Pump	

MH30-2



No	Part No	Description	Qty
1	80ZB-001	Joint grip	2
2	80ZB-002	Pipe joint	2
3	80ZB-003	Rubber packing	2
4	80ZB-004	Bolt M10*30	12
5	80ZB-005	Suction flange	1
6	80ZB-006	Clap door	1
7	80ZB-007	Pump body	1
8	50ZB-008	Plug	2
9	50ZB-009	Plug packing	2
10	80ZB-008	Discharge flange	1
11	80ZB-009	Rubber pad	1
12	80ZB-010	Rubber packing ring	1
13	50ZB-011	Nut M6	3
14	80ZB-011	Diffusor	1
15	50ZB-013	Bolt M6*63.5	3
16	80ZB-012	Impeller	1
17	50ZB-018	Bolt M8*42	4
18	80ZB-013	O-ring	1
19	50ZB-015	Mechanical Seal	1
20	50ZB-017	Aluminium washer	4
21	80ZB-014	Pump cover	1
22/23	80ZB-015	Filter net	1
24	80ZB-016	Bolt M8*28	4
25	80ZB-017	Nut M8	4
	80ZB-018	Clamp	3

9. Installation & Operating Instructions

READ ALL INSTRUCTIONS BEFORE OPERATING PUMP

WARNING: Engine manufacturer's instructions must be followed to ensure safe operation of this product and to avoid possible engine damage or reduced engine life. Engines of all type are dangerous and should not be used by children or infirm persons and must not be used as a toy by children.

PUMP LOCATION:

For most efficient operation, site the pump as close to the water as practical. It is essential for the correct function of the engine that it be located on a horizontal surface. If allowed to run at an inclination, the oil lubrication system of the engine may not operate correctly. Subsequent engine failure would not be covered by the manufacturer's warranty.

The pump should be positioned in a well drained location to avoid possible property damage by leaking hose fittings, pump seals and/or spilled engine fuel etc.

If you intend to operate your pump on a hard surface, we suggest a suitable resilient mounting to be fitted to your pump and engine.

SUCTION PIPE:

A reinforced or non-collapsible hose should be used for the pump suction. The minimum suction pipe size should be 38mm (1 1/2") I.D. The internal diameter of the hose should be equal to or greater than the internal diameter of the pump inlet. A strainer should always be fitted to the bottom of the suction pipe. The strainer should be kept out of sand, mud etc., to avoid particles being drawn into the pump and causing damage by abrasion.

Always locate the pump so that the rise of suction pipe from water to pump is even with no humps or hollows where air may be trapped.

All pipe connections must be air tight for best priming and operation – check that washers in nuts and tails are in good order. Any air leakage may result in an inability for the pump to self prime.

DELIVERY PIPE:

Care should be taken on correct selection of pipe pressure rating some pumps are capable of delivering pressures of more than 750 kPA (100psi).

PUMP PRIMING:

To prime the pump initially, it is necessary to fill the pump body with water before starting the engine.

This is done by removing the plug at the top of the pump. Unscrew the plug by turning anti-clockwise. Fill the pump body with clean water and replace the plug. Screw down tightly, to seal the "O" Ring keep the plug and its surrounding free from sand and grit. Occasionally apply a suitable silicon based rubber grease (petroleum based greases are not acceptable) to the "O" Ring. The pump drain plug is identical in operation to the fill plug. It must be tightened to create a seal against the "O" Ring.

Follow the engine manufacturer's instructions to start engine, open discharge then allow the pump to run until it is drawing water.

The pump will establish prime better at higher engine speeds. Allow up to 3 minutes for long or deep suction.

If the pump fails to prime, then it may be due to the pump flap valve not seating properly, an air leak in the suction pipe or fittings, a blocked suction pipe, or the bottom end of the pipe embedded in mud.

NOTE: When transporting your Self Priming Pump, water from the casing may leak back past the priming flap. Before attempting to self prime the pump you may need to check that the pump casing is full of water. We suggest that you always refill the pump (as previously described).

PUMP OPERATION:

High performance can be obtained from these pumps if the engine speed is increased, however, we do not recommend the pumps be operated over 3600rpm for extended periods, as this may overload the engine and reduce its working life. Operating the engine at full throttle for extended periods will shorten engine life and may result in premature failure. For operations such as irrigation or dam and tank filling, the throttle should be closed to slow the engine. (We recommend $\frac{2}{3}$ to $\frac{3}{4}$ throttle, this should correspond to 2800 to 3000 rpm).

AVOIDING PUMP DAMAGE:

Pumping water containing sand, dirt or other abrasive materials will result in accelerated pump wear and seal failure. Damage of this kind is not covered by warranty.

Pumping water containing chemicals or high concentrations of salt may damage pump components. If the pump is used for this kind of service, life will be extended by always washing thoroughly with clean water after use. However, we cannot accept responsibility for damage caused by chemicals, salt or corrosive fluids.

Pumping hydrocarbon based liquids, even in diluted form, is likely to cause damage to internal pump components and such failure is not covered by warranty.

STORAGE OF UNIT:

The pump unit should be drained of water and normal engine storage procedure should be followed.

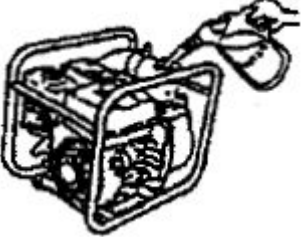
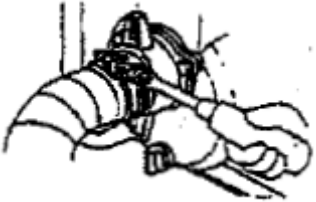
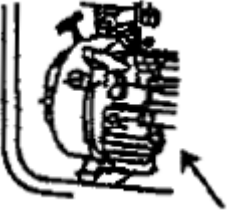
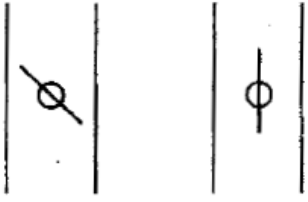


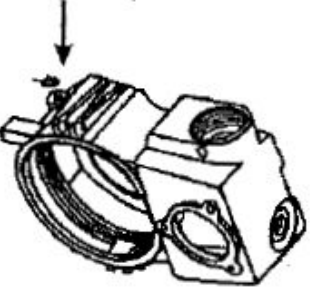
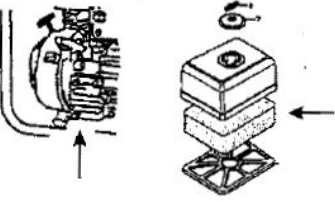
- Turn the fuel off. Run unit until fuel is exhausted, drain and fill sump with fresh oil
- The unit should be stored in a dry place
- Before starting pump after storage it should be checked to make sure that it is free to rotate by pulling Engine Starter with ignition off

Note: Failure to remove the water can result in cracked pump bodies. The water freezes, expands and cracks the body. This is not covered by warranty.

REMOVAL OF IMPELLER:

Pump impeller is screwed clockwise on to the engine shaft. To remove the impeller remove the engine recoil starter, lock the engine to prevent its rotation and unscrew the impeller anti-clockwise. The internal of the pump can now be checked and inspected.

10. Pump instructions

<p>1. Fill up the water</p>		<p>2. Make sure the hose band to outlet tightly</p>	
<p>3. Pour oil into engine</p>		<p>4. Pour Gasoline into fuel tank</p>	 <p>Before recoiling After recoiling</p>
<p>5. Turn engine switch on</p>		<p>6. Adjust valve first before recoiling</p>	
<p>7. Discharge out of all water when the task is done</p>		<p>8. Change engine oil and air cleaner per 50 hours</p>	

11. Warranties – Terms and Conditions

This warranty is given in addition to the consumer guarantees found within the Australian Competition and Consumer Act 2010 (Cth) for goods purchased in Australia and the Consumer Guarantees Act 1993 NZ for goods purchased in New Zealand:



1) White International Pty Ltd / White International NZ Ltd (White International) warrant that all products distributed are free from defects in workmanship and materials, for their provided warranty period as indicated on the top or opposite side of this document. Subject to the conditions of the warranty, White International will repair any defective products free of charge at the premises of our authorised service agents throughout Australia and New Zealand if a defect in the product appears during the warranty period. If you believe that you have purchased a defective product and wish to make a claim under this warranty, contact us on our Sales Hotline on 1300 783 601, or send your claim to our postal address or fax line below and we will advise you as to how next to proceed. You will be required to supply a copy of your proof of purchase to make a claim under this warranty.

2) This warranty excludes transportation costs to and from White International or its appointed service agents and excludes defects due to non-compliance with installation instructions, neglect or misuse, inadequate protection against the elements, low voltage or use or operation for purposes other than those for which they were designed. For further information regarding the suitability of your intended application contact us on our Sales Hotline on 1300 783 601. If you make an invalid claim under this warranty, the original product will be sent back to you unrepai red.

3) This warranty refers only to products sold after the 1st January 2012, and is not transferable to another product type and only applies to the original owner, purchaser or end user, and is in addition to the consumer guarantees found within the Competition and Consumer Act 2010 (Cth) for goods purchased in Australia and the Consumer Guarantees Act 1993 (NZ) for goods purchased in New Zealand.

4) Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure. 2 YEAR WARRANTY.

5) To the fullest extent permitted by law, White International excludes its liability for all other conditions or warranties which would or might otherwise be implied at law. To the fullest extent permitted by law, White International's liability under this warranty and any other conditions, guarantees or warranties at law that cannot be excluded, including those in the Competition and Consumer Act 2010 (Cth), is expressly limited to: (a) in the case of products, the replacement of the product or the supply of equivalent product, the payment of the cost of replacing the product or of acquiring an equivalent product or the repair of the product or payment of the cost of having the product repaired, is at the discretion of White International or a 3rd party tribunal elected under the Competition and Consumer Act 2010 (Cth) for goods purchased in Australia and the Consumer Guarantees Act 1993 (NZ) for goods purchased in New Zealand; and

6) To the fullest extent permitted by law, this warranty supersedes all other warranties attached to the product or its packaging.

7) In the case of services, supplying the services again or the payment of the cost of having the services supplied again, is at the discretion of White International or a 3rd party tribunal elected under the Competition and Consumer Act 2010 (Cth) for goods purchased in Australia and the Consumer Guarantees Act 1993 (NZ) for goods purchased in New Zealand. 8) Our warranty commences from the date of purchase of the above mentioned pumps. Proof of purchase is required before consideration under warranty is given.

Record your date of purchase in the space below and retain this copy for your records.

Date of Purchase**Model Purchased**



www.whiteint.com.au

www.whiteint.co.nz

Please always refer to our website for further technical information & new product innovations

Disclaimer: Every effort has been made to publish the correct information in this manual.
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