



Please dispose of packaging for the product in a responsible manner. It is suitable for recycling. Help to protect the environment, take the packaging to the local amenity tip and place into the appropriate recycling bin.



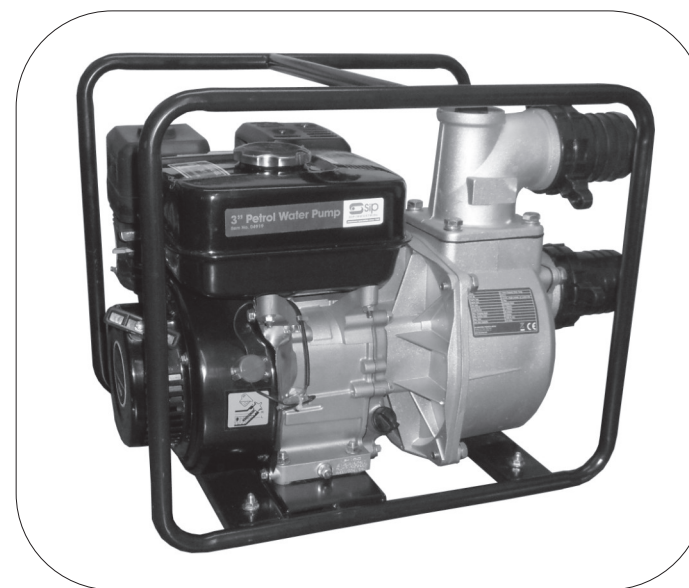
Never dispose of electrical equipment or batteries in with your domestic waste. If your supplier offers a disposal facility please use it or alternatively use a recognised re-cycling agent. This will allow the recycling of raw materials and help protect the environment.



SIP INDUSTRIAL

machinery specialists since 1968

3" Petrol Water Pump



04919

**FOR HELP OR ADVISE ON THIS PRODUCT PLEASE CONTACT YOUR DISTRIBUTOR,
OR SIP DIRECTLY ON:**

TEL: 01509500400

**EMAIL: sales@sip-group.com or technical@sip-group.com
www.sip-group.com**

Ref: 090713

Please read and fully understand the instructions in this manual before operation. Keep this manual safe for future reference

DECLARATION OF CONFORMITY

Declaration of Conformity

We

SIP (Industrial Products) Ltd
Gelders Hall Road
Shepshed
Loughborough
Leicestershire
LE12 9NH
England

As the manufacturer's authorised representative within the EC
declare that the

3" Petrol Water Pump - SIP Part. No. 04919

Conforms to the requirements of the following directive(s), as indicated.


2006/42/EC
2004/108/EC
97/68/EC
As Amended By
2006/96/EC
2000/14/EC
As Amended By
2005/88/EC

Machinery Directive
EMC Directive
Emissions From Non-road Mobile Machinery

Noise Emission Directive

And the following harmonised standard(s)

EN 12601:2001
EN 55012:2007
EN 61000-6-3:2007
EN 61000-6-1:2007

Signed: 

Mr P. Ippaso - Managing Director - SIP (Industrial Products) Ltd
Date: 23/03/2010.



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SAFETY SYMBOLS USED THROUGHOUT THIS MANUAL



Danger / Caution: Indicates risk of personal injury and/or the possibility of damage.



Hot Surfaces: Indicates risk of possible burning due to hot surfaces created during normal operation.



Note: Supplementary information.



Poisonous Fumes: Indicates a risk of possible inhalation of harmful fumes if care is not taken.



Flammable: Indicates possible risk of combustion if care is not taken.

SAFETY INSTRUCTIONS



IMPORTANT: Please read the following instructions carefully, **failure to do so could lead to serious personal injury and / or damage to the water pump.**

Every SIP water pump is carefully tested and packed during its assembly, on receiving the pump, check that the pump has not been damaged during transportation. If the pump is damaged, immediately inform your distributor, and, do not put the pump into operation until the damage has been repaired or the item replaced.

- Before starting or servicing this water pump, read and understand all instructions. Failure to follow safety precautions or instructions can cause equipment damage and/or serious personal injury. Retain all manuals for future reference.
- Never use this water pump for any application other than that specified by the manufacturer. Never operate this water pump under conditions not approved by the manufacturer.
- Never attempt to modify this water pump to perform in any manner not intended by the manufacturer.
- Use only products and parts recommended by the manufacturer for maintenance

NOTES

and repairs.

- Be sure that the water pump is operated only by persons who have read and who understand these instructions.
- Ensure that the water pump is placed on a flat level surface prior to and during operation. The water pump must not slide or shift during operation.
- Keep all untrained persons away from the water pump during operation.
- Do not allow persons wearing loose clothing or jewellery to start or operate the water pump. Loose clothing or jewellery may become entangled in moving components, causing equipment damage and/or personal injury.
- Be aware of moving parts and hot surfaces that occur during normal operation of this water pump.
- Never operate the water pump with damaged, broken or missing parts, or with any guards or covers removed.
- Do not refill the fuel tank while the engine is running.
- Be careful to prevent fuel spillage during refills.
- Be sure the fuel tank cap is securely in place before starting the engine.
- Allow engine to cool before refuelling etc.
- Never refuel whilst smoking or in the vicinity of a naked flame, or any ignition source.
- Take care not to spill any fuel on the engine, exhaust or any part of the water pump.
- Should any fuel make contact with your clothes; change and wash them immediately.
- If any fuel makes contact with your skin wash with soap and water immediately.
- If you swallow any fuel, inhale any vapour or allow contact with your eyes, seek medical advice immediately.
- Be sure to store petrol in clean containers that do not contain water, dirt or rust because this will reduce the life of the engine; ensure that all local fuel storage laws are followed.
- Never operate this water pump in an explosive atmosphere or near any flammable sources.
- Always operate this water pump in a well ventilated area to reduce the risk of suffocation.
- Shut off the water pump engine before performing any service or maintenance to the unit.
- Never drag the water pump with hoses etc. to move it; only move the water pump with the carrying handles.
- Never cover the water pump or restrict the exhaust or air flow in any way.
- Always ensure that the water pump is at least 1m (3ft) away from any walls or buildings to allow correct air flow.
- Avoid inserting hands or other objects into the inlet or the outlet of the pump.
- Always check the pump regularly, and take it out of service if the water is likely to

SAFETY INSTRUCTIONS....cont

freeze.

- When not in use, always ensure that the pump is fully drained of any water and store it in a warm environment to protect it from frost damage.



Caution: anyone who operates this water pump should read and fully understand all of the instructions and warnings in this manual.



Hot Surfaces: During normal operation certain parts of this water pump will become hot. **ALWAYS** stay alert and be aware of hot components / surfaces. Allow the engine to cool before attempting to move, clean or maintain the water pump.



Poisonous Fumes: Exhaust fumes produced during normal operation are poisonous. **Do not** operate this water pump in enclosed areas; always ensure adequate ventilation.



Flammable: The fuel used to run this water pump (unleaded petrol) is highly flammable. Never re-fuel the water pump whilst it is still running. Store unused fuel safely and away from children and in accordance with local regulations / laws.



CAUTION: The warnings and cautions mentioned in this user manual can not cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be applied.

SPECIFIED CONDITIONS OF USE

This water pump can be used to drain rain water, domestic waste water and to remove water from flooded rooms in emergency conditions. The pump can be used to transfer clean or moderately dirty water (no solids).

This pump is designed to be used in the following applications:

- Draining of cisterns, rainwater reservoirs, wells, ponds, swimming pools, storm drains, flooded cellars, boats and yachts.
- It is only for use with water and not chemicals or other substances that could damage the internal seals etc.
- The pump cannot be used for flammable, corrosive, explosive or dangerous liquids.

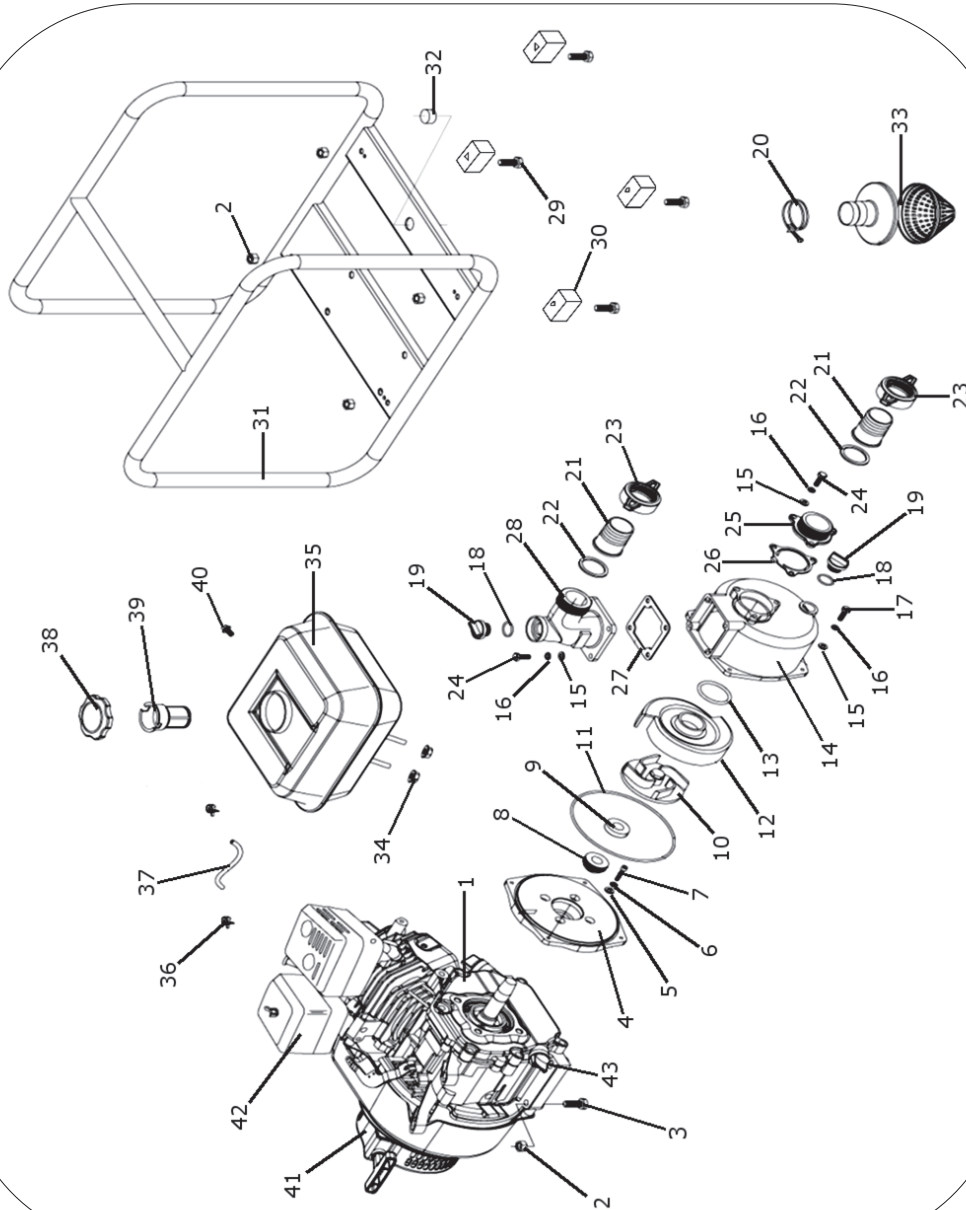
It should not be used where aquatic life is present such as in domestic, or commercial ponds, or similar.

PARTS LIST

| Ref. No. | Description | SIP Part No. | Ref. No. | Description | SIP Part No. |
|----------|----------------------|--------------|----------|--------------------|--------------|
| 1. | Engine | PW11-00001 | 24. | Flange bolt M10x25 | PW11-00024 |
| 2. | Flange nut M8 | PW11-00002 | 25. | Inlet flange | PW11-00025 |
| 3. | Flange bolt M8x34 | PW11-00003 | 26. | Check valve | PW11-00026 |
| 4. | Pump cover | PW11-00004 | 27. | Rubber washer | PW11-00027 |
| 5. | Washer M8 | PW11-00005 | 28. | Outlet flange | PW11-00028 |
| 6. | Rubber washer | PW11-00006 | 29. | Flange bolt M8x20 | PW11-00029 |
| 7. | Inner hex bolt M8x60 | PW11-00007 | 30. | Shock absorber | PW11-00030 |
| 8. | Mechanical seal | PW11-00008 | 31. | Frame | PW11-00031 |
| 9. | Porcelain seal | PW11-00009 | 32. | Shock absorber | PW11-00032 |
| 10. | Impeller | PW11-00010 | 33. | Strainer | PW11-00033 |
| 11. | O-ring | PW11-00011 | 34. | Nut | PW11-00034 |
| 12. | Volute casing | PW11-00012 | 35. | Fuel tank | PW11-00035 |
| 13. | Rubber bushing | PW11-00013 | 36. | Fuel pipe clip | PW11-00036 |
| 14. | Pump housing | PW11-00014 | 37. | Fuel pipe | PW11-00037 |
| 15. | Washer M10 | PW11-00015 | 38. | Fuel tank cap | PW11-00039 |
| 16. | Spring washer M10 | PW11-00016 | 39. | Fuel tank filter | PW11-00040 |
| 17. | Flange bolt M10x30 | PW11-00017 | 40. | Flange bolt | PW11-00041 |
| 18. | O-ring | PW11-00018 | 41. | Pull cord | PW11-00042 |
| 19. | Plug | PW11-00019 | 42. | Air filter | PW11-00043 |
| 20. | Hose clamp | PW11-00020 | 43. | Oil dipstick | PW11-00044 |
| 21. | Coupler | PW11-00021 | N/A | Spark plug | PW11-00045 |
| 22. | Rubber washer | PW11-00022 | N/A | Carburettor | PW11-00046 |
| 23. | Nut | PW11-00023 | | | |

EXPLODED DRAWING

MAIN WATER PUMP UNIT



GUARANTEE

Guarantee:

This SIP water pump is covered by a 12 month parts and labour warranty covering failure due to manufacturers defects. This does not cover failure due to misuse or operating the water pump outside the scope of this manual - any claims deemed to be outside the scope of the warranty may be subject to charges including, but not limited to parts, labour and carriage costs.

This guarantee does not cover consumables such as filters & spark plug etc.

In the unlikely event of warranty claims, contact your distributor as soon as possible. Proof of purchase will be required before any warranty can be honoured.

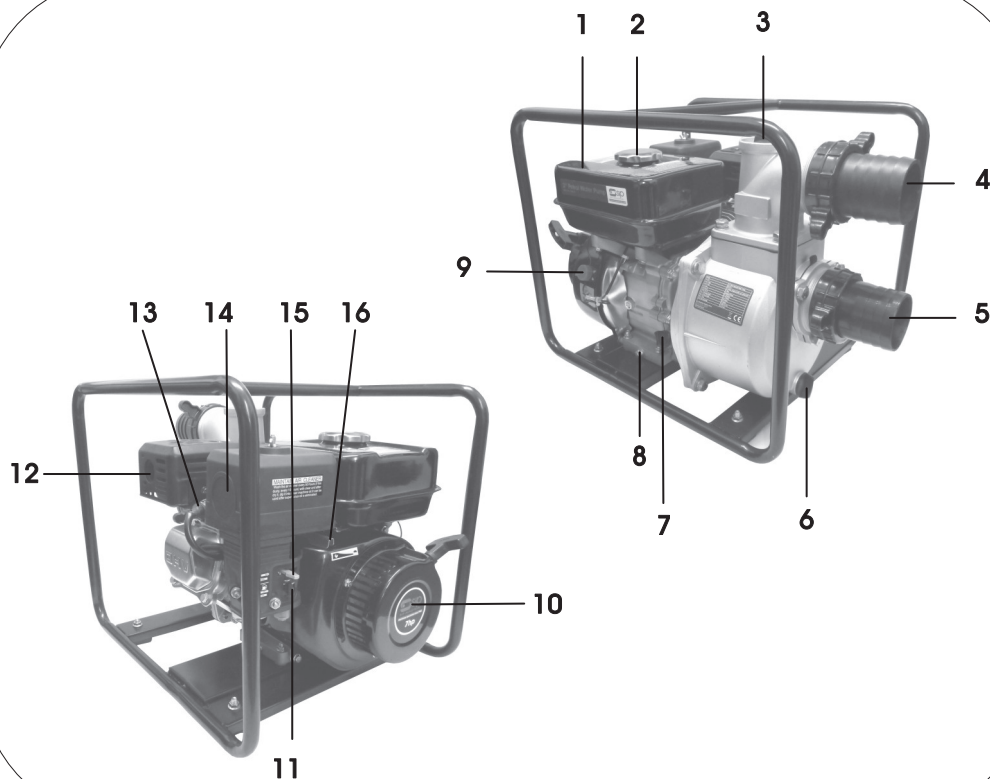


Note: Proof of purchase will be required before any warranty can be honoured.

TECHNICAL SPECIFICATIONS

| Name | 3" Petrol Water Pump |
|--------------------|--|
| Part number | 04919 |
| Engine type | 4-stroke, single cylinder, air cooled, OHV |
| Engine size | 7.0 HP |
| Fuel type | Unleaded petrol |
| Inlet Port Ø | 3" |
| Outlet Port Ø | 3" |
| Max. Pumping Head | 28 m |
| Max. Suction Head | 8 m |
| Max. Flow Rate | 1000 l/min |
| Fuel tank capacity | 3.6 Litres |

GETTING TO KNOW YOUR WATER PUMP



| Ref. No. | Description | Ref. No. | Description |
|----------|-----------------------|----------|----------------------|
| 1. | Fuel Tank | 9. | Engine On/Off Switch |
| 2. | Fuel Cap | 10. | Recoil Starter |
| 3. | Priming Bung | 11. | Fuel Tap |
| 4. | Pump Outlet | 12. | Exhaust |
| 5. | Pump Inlet | 13. | Spark Plug |
| 6. | Water Drain | 14. | Air Filter |
| 7. | Oil Filler / Dipstick | 15. | Choke |
| 8. | Oil Drain Bung | 16. | Throttle Adjust |

TROUBLESHOOTING



Note: Some of the following operation should only be carried out by a suitably qualified person. If in doubt contact SIP or your distributor for guidance.

| Symptoms | Possible Causes | Possible Solutions |
|--|---|--|
| No Output From Pump | <ul style="list-style-type: none"> Pump not fully primed. Inlet pipe leaking. Pump speed too slow. Filter / Strainer clogged. Suction / overall head too high. Damaged pump seal. | <ul style="list-style-type: none"> Prime the pump (see page 12). Tighten clamps / replace damaged pipe. Increase pump speed. Clean filter / strainer. Reduce the height to recommended levels. Replace pump seal. |
| Low Water Flow | <ul style="list-style-type: none"> Filter / strainer, pipeline obstructed. Engine speed too slow. Inlet pipe leaking. Worn / damaged impellor. Suction / overall head too high. | <ul style="list-style-type: none"> Inspect and clear obstruction. Increase engine speed. Tighten clamps / replace damaged pipe. Check and replace impellor. Reduce the height to recommended levels. |
| Flow Stops Suddenly | <ul style="list-style-type: none"> Inlet connector loose and leaking. Cavitation caused by too high a suction head. Filter / strainer, pipeline obstructed. Impellor obstructed. | <ul style="list-style-type: none"> Check and tighten connector. Reduce the height to recommended levels. Inspect and clear obstruction. Check and clear obstruction. |
| Pump Excessively Noisy & Vibrating. | <ul style="list-style-type: none"> Cavitation caused by too high a suction head. Filter / strainer, pipeline obstructed. Loose rotary component. Unstable pump installation. Air in the system. Damaged or binding component. | <ul style="list-style-type: none"> Reduce the height to recommended levels. Inspect and clear obstruction. Inspect and tighten loose part. Stop operation and reposition pump. Release air and prime the pump. Inspect and repair / replace component. |

MAINTENANCE INSTRUCTIONS....cont

CLEAN OR REPLACE THE SPARK PLUG

Clean or Replace The Spark Plug (every 50 hours of use).

1. Remove the spark plug cap from the spark plug.
2. Use the supplied spark plug spanner to remove the spark plug.
3. Check for discoloration and remove any carbon build up.
4. Check the spark plug gap, it should be between 0.7 and 0.8mm; Adjust if necessary.
5. Check the overall condition of the plug and replace if damaged.
6. Reinstall the plug & spark plug cap.

CHECK THE FUEL TANK FILTER

Check The Fuel Tank Filter (periodically).

Just under the fuel cap is a fuel filter, check this filter periodically and remove any contaminants which may have accumulated.

1. Remove the fuel tank cap and filter.
2. Clean the filter and, if damaged replace.
3. Insert the filter back into place.
4. Ensure the tank cap is tightly secured.

TRANSPORTATION AND STORAGE

To prevent fuel spillage when transporting or during temporary storage, the water pump should be stored upright in its normal operating position, ideally with all of the fuel removed and with the engine switch off.

Long Term Storage (1 month or greater).

1. Be sure the storage area is free of excessive humidity and dust.
2. Completely drain the fuel from the tank. Open the fuel valve, start the engine and operate it in the idle position until all remaining fuel is used and the engine stops automatically.
3. Discharge the oil.
4. Remove the spark plug and fill the cylinder with 1 tablespoon of fresh oil. Pull the starting cord 3-4 times to discharge the remaining oil then reinstall the spark plug.
5. Pull the starting cord slowly until the resistance is strong, this indicates that the piston is moving to the top of the compression stroke and the valves will be closed.

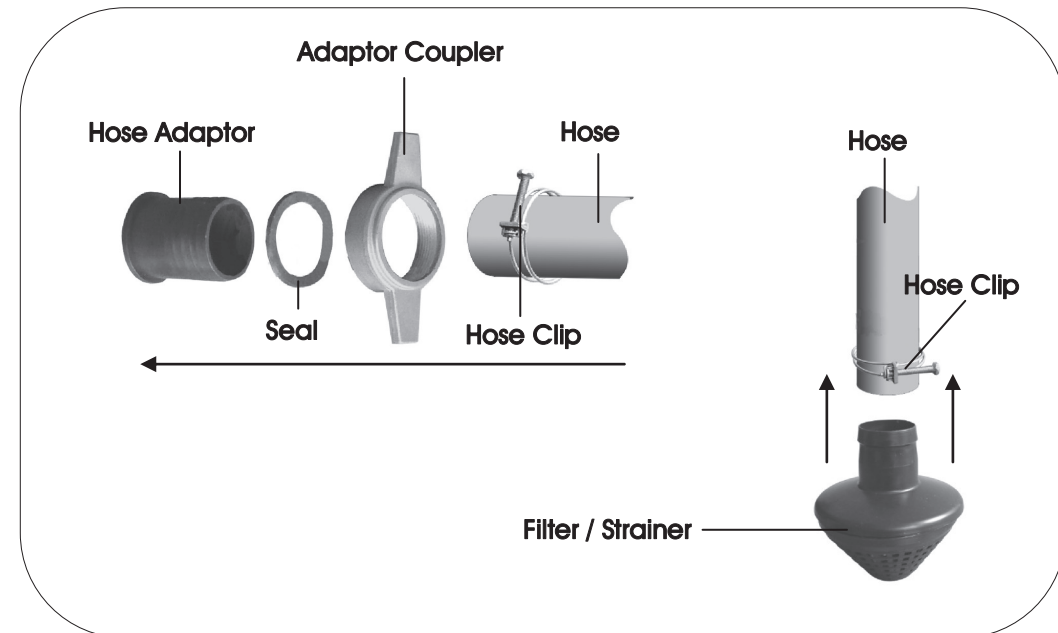
ASSEMBLY INSTRUCTIONS

FITTING THE HOSE ADAPTORS



Note: The hose can be fitted directly to the pump if the hose has the correct female fitting, alternatively; follow the instructions below to fit the hose by means of a hose adaptors.

- Fit the 3" inlet and outlet adaptors to the pump.
- Slide the hose clips over the hose.
- Fit the inlet and outlet hoses over the adaptors and secure with the hose clips.
- Fit the filter / strainer at the opposite end of the suction hose.
- Sit the end of the suction hose into the area / water to be cleared and the end of the outlet hose to where the water is to be pumped to.



Note: Solid wall / super tough hose should be used instead of lay flat to ensure the pump will work to its capacity.

OPERATING INSTRUCTIONS



Hot Surfaces: Always ensure that the water pump is turned off and allowed to fully cool before any refuelling or maintenance procedures are carried out.

FILLING THE CRANKCASE WITH OIL / CHECKING THE OIL LEVEL



Caution: The water pump is drained of oil at the factory prior to shipping. SAE 10W-30 oil or equivalent is recommended for these water pumps.



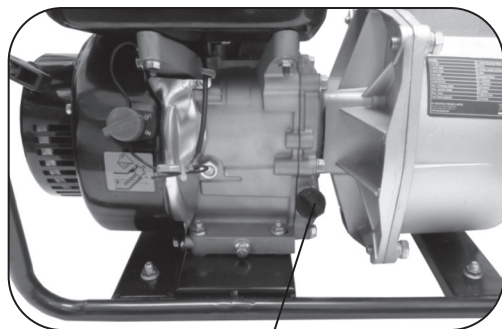
Note: When checking the oil level; always ensure that the water pump is placed on a firm level surface.

Ensure that the water pump is on a flat level surface.

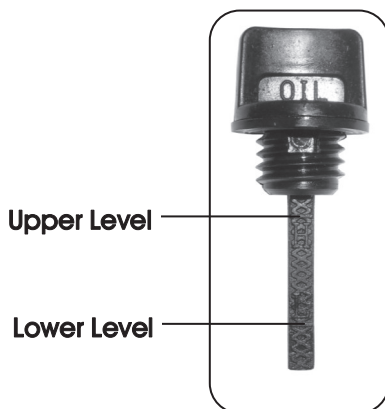
- Remove the Oil filler cap / Dipstick by turning it anti-clockwise.
- Slowly pour the oil into the crankcase.
- Check the oil level by pushing the oil filler cap back into its hole up to the bottom of the threads (do not screw the cap in).
- Once the oil level is between the upper and the lower marks on the oil filler cap / dipstick (see below), refit it and turn clockwise to fully tighten.

The oil level should be checked every 8 hours or daily.

The oil should be **changed** after the first 20 hours of operation; thereafter change the oil after 50 hours of operation or less if the water pump is operated under constant heavy loads or in high ambient temperatures.



Oil Filler Cap / Dipstick



OPERATING INSTRUCTIONS....cont

STOPPING THE WATER PUMP

In an emergency:

- Simply turn the engine switch to the 'off' position.

In normal conditions:

- Slide the throttle adjust lever to the right, slowest position.
- turn the engine switch to the 'off' position.
- Turn the fuel tap to off.

MAINTENANCE INSTRUCTIONS



Caution: Always turn off the water pump and allow to fully cool before carrying out any maintenance procedures.

CHANGING THE OIL

Change The Engine Oil (every 50 hours of use).

1. Turn the oil filler cap counter clockwise and remove from the crankcase.
2. Loosen and remove the oil drain bung and allow the oil to drain into a suitable container.
3. Refit and tighten the oil drain bung once all of the oil has drained.
4. Fill the crankcase to the max level with fresh oil (see page 10); we recommend the use of SAE 10W-30 oil.
5. Replace the Oil filler cap / Dipstick.

CLEAN OR REPLACE THE AIR FILTER

Clean or Replace The Air Filter (every 50 hours of use)

1. Remove the air filter cover wing nut.
2. Remove the air filter cover.
3. Remove the air filter element.
4. If the air filter is damaged contact your local distributor to purchase a replacement, If the filter is dirty wash the filter in a solution of warm water and mild detergent and rinse thoroughly. Leave the filter to dry completely, once dried immerse the filter in clean engine oil and squeeze the filter to remove excess oil - the filter should only be damp with oil.
5. Put the filter back into its original position and replace the air filter cover etc.

OPERATING INSTRUCTIONS....cont

Step 4:

- ⇒ Hold the water pump firmly with one hand.
- ⇒ Grip the recoil start handle and slowly pull the cord until it engages, then pull sharply until the engine starts.



Note: It may take a few sharp pulls to get the engine started.



Note: Once the engine has started slowly release the recoil and allow the cord to be retracted.

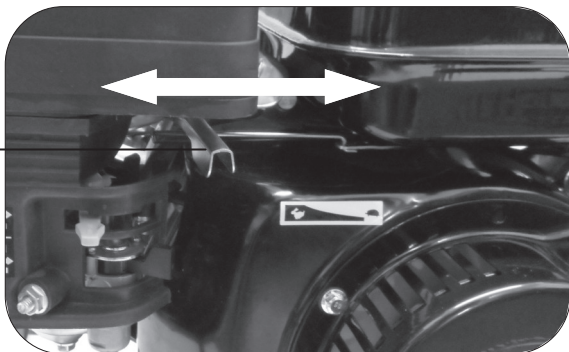
Step 5:

- ⇒ Once the engine is running and warm enough, slide the choke lever to the left 'RUN' position.

Step 6:

- ⇒ Slide the throttle adjust to set the amount of flow required; slide left for more flow and right for less (see below).

Throttle Adjust



Note: Run the pump on slow speed for a few minutes to allow the engine to reach its operating temperature before increasing the speed.

OPERATING INSTRUCTIONS....cont



Caution: Ensure the oil level is maintained; Failure to do so will invalidate any warranty you may have.

FILLING THE WATER PUMP WITH FUEL



Flammable: The fuel used to run this water pump (unleaded petrol) is highly flammable. Never re-fuel the water pump whilst it is running. Do not re-fuel near naked flames or other possible ignition sources.



Note: Never overfill the fuel tank; leave a small air gap at the top.
Fuel capacity: 3.6 Litres.



Note: When re-fuelling always ensure that the fuel filter (supplied) is in place under the filler cap, as foreign matter or debris will cause damage to the engine and greatly reduce the life of the water pump.

Fuel Filter



To Fuel / re-fuel the water pump:

1. Remove the fuel cap.
2. Carefully pour the petrol into the tank to the desired level and replace the fuel cap.
3. Remove any spilt fuel from the water pump and surrounding area to avoid any risk of fire.

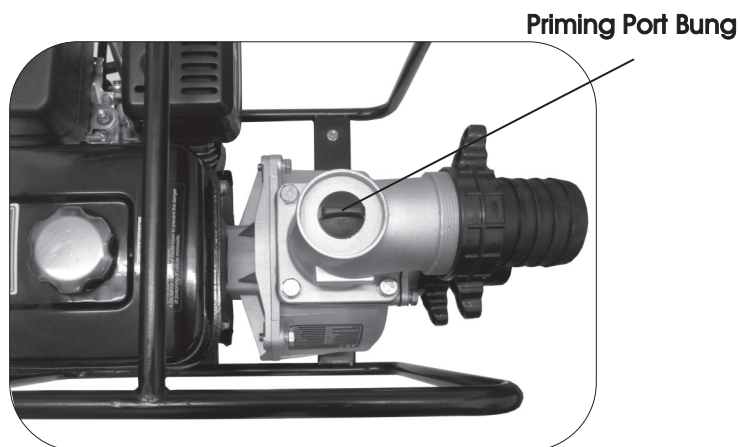
The water pump should now be ready to run.

OPERATING INSTRUCTIONS....cont

PRIMING THE PUMP

Prior to use, the pump will need to be primed:

- Remove the priming port bung.
- Pour water through the port until it is full.
- The amount of water needed will depend on different factors such as length of hose etc.
- Once full, refit the priming port bung.



Note: The pump may need to be primed every time the pump is stopped (depending on different factors). The use of an NRV (non return valve) on the suction hose will reduce this issue.

Once primed the pump should be ready to run:

- Start the engine (see page 13), if primed correctly the pump should start to pump water.



Note: The pump should not be run without water in the pumping chamber / impellor housing as this could cause damage.

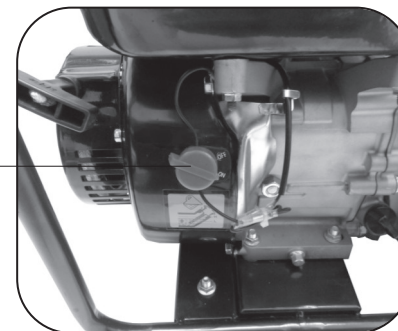
OPERATING INSTRUCTIONS....cont

STARTING THE ENGINE

Step 1:

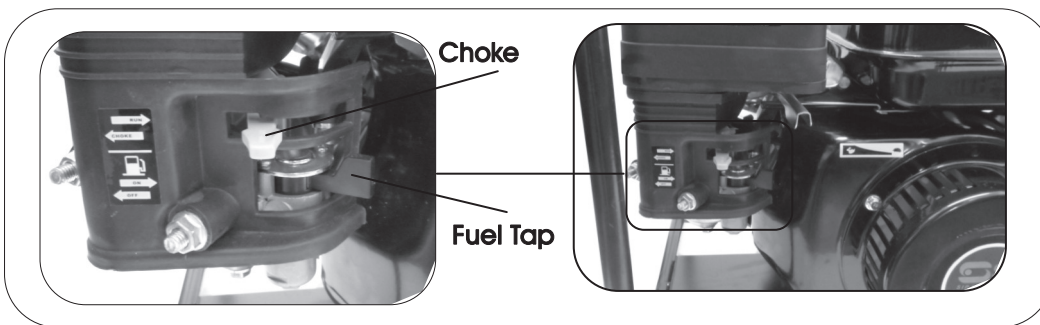
- ⇒ Turn the main engine switch to the on (I) position.

Engine Switch



Step 2:

- ⇒ Turn the fuel tap to the on position (see below).



Step 3:

- ⇒ Slide the choke lever to the right (see above).



Note: The choke may not be needed if the engine is already warm or the ambient temperature is hot.