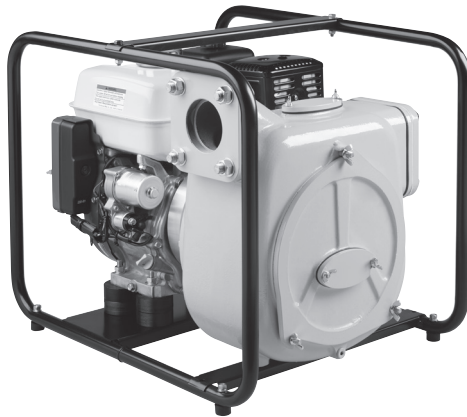


# DAVEY

## 3" and 4" Jumbo Floodfighter™ Pumps Installation and Operating Instructions



These Instructions and the accompanying engine manufacturer's instructions must be delivered with the pump to the operator.

Please pass these instructions on to the operator of this equipment.

# READ ALL INSTRUCTIONS BEFORE OPERATING PUMP



## NOTE:

- Your Davey pump is fitted with a four stroke engine WHICH REQUIRES 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 guarantee.
- Fill sump with oil and pump with water before starting. HATZ diesel engines do not have low oil protection. Check oil levels and maintain oil quality regularly.

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



## IMPORTANT NOTICE:

The Honda engine fitted to the Davey Floodfighter™ has an automatic oil level cut-out which will stop the engine and/or prevent starting when oil level is low and/or when engine is tilted.

**IN EMERGENCY CIRCUMSTANCES ONLY, OIL LEVEL CUT-OUT MAY BE DISABLED AS FOLLOWS:**

**FOR HONDA:** Disconnect yellow lead to starting switch at 'bullet' junction.

**NOTE: WARRANTY FROM THE ENGINE MANUFACTURERS MAY BE JEOPARDISED BY SUCH ACTIONS.**



## 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.

## **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 guarantee.

The pump should be positioned in a well drained location to avoid possible property damage by leaking hose fittings or pump seals, spilled engine fuel etc. If you intend to operate your pump on a hard surface, Davey suggest a suitable resilient mounting to be fitted to your pump and engine.

## **SUCTION PIPE:**

The Jumbo Floodfighter™, depending upon the model, uses a 3" or 4" suction pipe. Always locate the pump so that the rise of suction pipe from the water is even with no humps or hollows where air may be trapped. All pipe connections must be air tight for best priming and pump operation – check that washers in nuts and tails are in good order.

## **DISCHARGE PIPE:**

Care should be taken with the selection of pipe pressure rating as the 3" Jumbo Floodfighter™ is capable of delivering pressures of 250kPa.

## **PUMP PRIMING:**

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

Apply choke and start the engine. Then open the discharge and 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 Davey Floodfighter™ 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.**

## **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 water transfer and tank filling, the throttle should be closed to around 3/4 maximum. This should correspond to around 3000rpm maximum.

## **AVOIDING PUMP DAMAGE:**

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, Davey 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 guarantee.

## **ENGINE OIL**

The use of good quality, correctly rated engine oil is very important to the long term dependability of your engine, especially when you need it most. Check the manufacturer's recommendations for the correct grade of oil and stick to their recommendations. Do not use a synthetic, multigrade motor vehicle oil in your small engine, it simply is the wrong oil for this type of engine.

Diesel engines require specific oils designed for diesel, and the diesel engine on your pump will need a different oil to that used for truck or motor vehicle engines.

Honda and Hatz offer their own branded specialty oils to suit their engines best, but no matter who makes the oil, use the right grades and stick to trusted brands.

Davey include a label with every engine to advise of the correct oil to use, which are:

- Honda Petrol Engines: SAE 10W-30 mineral oil. For extreme conditions alternate oil grade may be appropriate – check manual.
- Hatz B Series Diesel Engines: MONOGRADE SAE30, API CD lubricating oil for an ambient temperature in the range from 0°C to 35°C. Use monograde SAE40 for ambient temperatures up to 45°C.

Running the engine regularly will help ensure the oil is distributed around the engine, thus providing the best lubrication and longer engine life.

## AIR CLEANERS

In a flood emergency you need every ounce of performance from your pump unit to be available, and poorly maintained air cleaners won't help you. Adequate clean air flowing into the engine at the right speed and temperature is vital for efficient combustion:

- Follow the engine manufacturers' schedule and instructions for the correct maintenance of the air cleaner.
- Ensure your engine has access to ample clean fresh air.
- Be careful changing the air cleaner from the engine manufacturers original equipment as these are specially designed for each engine

## GENERAL ENGINE MAINTENANCE

Sometimes it's the little things that lead to problems, but they are often easy to see if you know what to look for:

Fuel lines: Check to ensure there is no water in the carburettor bowl. Make sure any fuel lines have not degraded over time.

Recoil starters: Ensure they work smoothly. Check the recoil rope for any signs of wear, if uncertain, replace them.

Service schedules: Small engines are often not treated as well as they deserve, oil changes are the most common item neglected.

## STORAGE OF UNIT:

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

## REMOVAL OF IMPELLER:

The pump impeller is screwed clockwise onto the engine shaft. To remove the impeller, unscrew the locking nut anticlockwise using a rattle gun. If you don't have access to a rattle gun, you will need to remove the locking nut using a socket on the nut and to hold (lock) the engine crankshaft. Access to the crankshaft can be gained by removing the recoil (hand) starter on the back of the engine.



**NOTE:** The pump body should always be full of water when operating, and must not be allowed to run dry for extended periods. Check that there is flow through pump at all times when running as insufficient flow can cause damage not covered by guarantee.



**WARNING:** Pump may contain hot liquid under pressure.

## NOTES

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# Davey® Repair or Replacement Guarantee

In the unlikely event in Australia or New Zealand that this Davey product develops any malfunction within warranty periods beginning from the date of original purchase due to faulty materials or manufacture, Davey will at our option repair or replace it for you free of charge, subject to the conditions below.

## Davey Guarantee

Jumbo Floodfighter™ Liquid End - One Year

Engines fitted to Davey pumps are the responsibility of the engine manufacturer or their representative

The manufacturer's stated guarantee terms and conditions are contained in the owners / operators manual provided with this pump.

Should you experience any difficulties with your Davey product, we suggest in the first instance that you contact the Davey Dealer from which you purchased the Davey product. Alternatively you can phone our Customer Service line on 1300 367 866 in Australia, or 0800 654 333 in New Zealand, or send a written letter to Davey at the address listed below. On receipt of your claim, Davey will seek to resolve your difficulties or, if the product is faulty or defective, advise you on how to have your Davey product repaired, obtain a replacement or a refund.

Your Davey Guarantee naturally does not cover normal wear or tear, replacement of product consumables (i.e. mechanical seals, bearings or capacitors), loss or damage resulting from misuse or negligent handling, improper use for which the product was not designed or advertised, failure to properly follow the provided installation and operating instructions, failure to carry out maintenance, corrosive or abrasive water or other liquid, lightning or high voltage spikes, or unauthorized persons attempting repairs. Where applicable, your Davey product must only be connected to the voltage shown on the nameplate.

Your Davey Guarantee does not cover freight or any other costs incurred in making a claim. Please retain your receipt as proof of purchase; you MUST provide evidence of the date of original purchase when claiming under the Davey Guarantee.

Davey shall not be liable for any loss of profits or any consequential, indirect or special loss, damage or injury of any kind whatsoever arising directly or indirectly from Davey products. This limitation does not apply to any liability of Davey for failure to comply with a consumer guarantee applicable to your Davey product under the Australian or New Zealand legislation and does not affect any rights or remedies that may be available to you under the Australian or New Zealand Consumer Legislation.

In Australia, 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.

Should your Davey product require repair or service after the guarantee period; contact your nearest Davey Dealer or phone the Davey Support Centre on the number listed below.

For a complete list of Davey Dealers visit our website ([davey.com.au](http://davey.com.au)) or call:



Davey Water Products Pty Ltd  
Member of the GUD Group  
ABN 18 066 327 517

### AUSTRALIA

**Davey Support Centre**  
6 Lakeview Drive,  
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Ph: 1300 367 866  
Fax: 1300 369 119  
Website: [davey.com.au](http://davey.com.au)

### NEW ZEALAND

**Davey Support Centre**  
7 Rockridge Avenue,  
Penrose, Auckland 1061  
Ph: 0800 654 333  
Fax: 09 527 7654  
Website: [daveynz.co.nz](http://daveynz.co.nz)

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™ Floodfighter is a trademark of Davey Water Products Pty Ltd.

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\* Installation and operating instructions are included with the product when purchased new. They may also be found on our website.