






















# Basic Operation Guide

## Neptune NPVS150 Pump





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





## FUNCTION KEYS

- 1- Press  to start and stop pump, for backwashing, to restore controller and to activate auto recovery.
- 2- Short press  to scroll between Speed, Clock and Power Consumption displays.
- 3- Long Press  when **CL:** (Clock) is displayed to alter and save clock times.
- 4- Press  or  or  when in display mode to select default speed.
- 5- Short press   to increase / decrease default speed settings by 10 RPM when in display mode.  
Long Press to increase / decrease rapidly. (This will not alter the saved settings, pump will default back to original setting on next cycle).
- 6- Long press  for 3 seconds to enter controller settings. (You cannot enter controller settings whilst **CL: Clock** is displayed).
- 7- Press   scroll through controller settings.
- 8- Press  or  or  when in controller settings to shortcut access the default speed settings.
- 9- Short press  to alter and save any changes made to controller settings.
- 10- Press  to scroll right and  to scroll left between digits.
- 11- Press   to increase / decrease settings.




## 1. STARTING THE PUMP

- 1.01 Press  . The Power light  will illuminate.
- 1.02 The pump will start after controller goes through its diagnostics.
- 1.03 If priming function has been enabled, the pump will start on prime for the desired timeframe set.
- 1.04 External and/or internal timers can now be used.




## 2. SETTING THE CLOCK

- 2.01 Whilst in display mode, short press  to cycle between displays until **CL:** (CLOCK) is displayed.
- 2.02 Press  and hold down for 3 seconds until digits flash.
- 2.03 Press  to scroll right and  to scroll left between digits.
- 2.04 Press  or  to change time.
- 2.05 Short press  to save setting.













## 3. SELECTING SPEED

- 3.01 Press  or  or  . Light will illuminate above selected speed, this will now be the default speed.

## 4. DEFAULT SPEEDS











- 4.01  Default Speed 1500 RPM -This speed should be used for economy mode on filtration.
- 4.02  Default Speed 2400 RPM - This speed should be used for a majority of suction cleaners connected to skimmer box.
- 4.03  Default Speed 3400 RPM - This speed should be used for backwashing sand filters and manual vacuuming.













## 5. ADJUSTING DEFAULT SPEEDS

- 5.01 Short press  until screen displays **S1:**, **S2:**, **S3:** or **P:** (You cannot enter controller settings whilst **CL: Clock** is displayed)
- 5.02 Press  and hold down for 3 seconds, this will now enter controller settings.
- 5.03 Select which speed setting you wish to adjust by pressing  or  or .
- 5.04 Short press , press  to scroll right and  to scroll left between digits.
- 5.05 Short press  or  to increase or decrease the speed setting by 10 RPM. Long Press to increase / decrease rapidly. (This will not alter the saved settings)
- 5.06 Short press  to save setting.
- 5.07 Press  and hold down for 3 seconds, this will now exit the controller settings.
















## 6. PROGRAMMING TIMER SCHEDULES








The NPVS150 has programmable timer schedules for speed settings 1 and 2. These schedules can be used as a timer or to schedule speed run times coinciding with external time clock run times.

- 6.01 Short press  until screen displays **S1:**, **S2:**, **S3:** or **P:** (You cannot enter controller settings whilst **CL: Clock** is displayed)
- 6.02 Press  and hold down for 3 seconds, this will now enter the controller settings.
- 6.03 Press  to scroll through menu until **1 o:** is displayed to set start time for Speed 1 or **2 o:** displayed to set start time for Speed 2.
- 6.04 Short press  until digits flash.
- 6.05 Press  to scroll right and  to scroll left between digits.
- 6.06 Press  or  to change time.
- 6.07 Short press  to save setting.
- 6.08 Press  to scroll through menu until is **1 F:** is displayed on screen to set finish time for Speed 1 or **2 F:** displayed to set finish time for Speed 2.




- 6.09 Short press  until digits flash.
- 6.10 Press  to scroll right and  to scroll left between digits.
- 6.11 Press  or  to change time.
- 6.12 Short press  to save setting.
- 6.13 Press  to scroll through menu until **1 E:** is displayed for Speed 1 or **2 E:** for Speed 2. “ This setting is used to enable or disable to timer.
- 6.14 Short press  until digits flash.
- 6.15 Press  or  to enable timer (on) or disable timer (off)
- 6.16 Short press  to save setting.
- 6.17 Press  and hold down for 3 seconds, this will now exit the controller settings.

## 7. PRIMING SETTINGS

- 7.01 Short press  until screen displays **S1:**, **S2:**, **S3:** or **P:** (You cannot enter controller settings whilst **CL: Clock** is displayed)
- 7.02 Press  and hold down for 3 seconds, this will now enter the controller settings.
- 7.03 Press  to scroll through menu until **PL:** is displayed, this setting is for the priming time.
- 7.04 Short press  until digits flash.
- 7.05 Press  to scroll right and  to scroll left between digits.
- 7.06 Press  or  to change priming time, maximum priming time is 20 minutes, minimum is 1 minute.
- 7.07 Short press  to save setting.
- 7.08 Press  to scroll through menu until **PS:** is displayed, this setting is for the priming speed in RPM.
- 7.09 Short press  until digits flash.
- 7.10 Press  to scroll right and  to scroll left between digits.
- 7.11 Short press  or  to increase or decrease the speed setting by 10 RPM. (minimum priming speed is 2900 RPM) Long Press to increase / decrease rapidly. (This will not alter the saved settings)

- 7.12 Short press  to save setting.
- 7.13 Press  to scroll through menu until **PE:** is displayed, this setting is to enable or disable priming function.
- 7.14 Short press  until digits flash.
- 7.15 Press  or  to enable priming (on) or disable priming (off).
- 7.16 Short press  to save setting.
- 7.17 Press  and hold down for 3 seconds, this will now exit the controller settings.

## 8. RESET SETTINGS

- 8.01 Whilst in **Controller Settings**, Press  to scroll through menu until **RESET:** is displayed.
- 8.02 Short press  until digits flash.
- 8.03 Short press  to reset settings.

**This information is supplied as a guide only. Refer to the NPVS150 Pump Installation & Operating instructions supplied with the pump for further information and more detailed instructions.**

