



# HAYWARD®



## Spa Flow Switch Upgrade Kit For the AquaRite™+

### Owner's Manual

To prevent potential injury and to avoid unnecessary service calls, read this manual carefully and completely.

## **SAVE THIS INSTRUCTION MANUAL**

Hayward Pool Products (Australia) Pty Ltd.  
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**WARNING: Electrical hazard.**  
Failure to comply with these instructions can result in serious injuries or death.

***THE EQUIPMENT IS INTENDED TO BE USED ONLY ON PERMANENTLY CONSTRUCTED POOLS AND SPAS***

-  **WARNING** – Disconnect/isolate the equipment from the electricity supply before any installation/service/repair.
-  **WARNING** – All electrical wiring must be performed by a qualified and licensed electrical contractor in accordance with all Local/State/Federal Government electrical regulations and the latest edition of the AS/NZS 3000 Wiring Rules.
-  **WARNING** – Ensure that the device is plugged into a power outlet that is protected against short-circuits. The device must also be powered via an isolating transformer or through a residual current device (RCD) with a fixed residual operating current not exceeding 30mA.
-  **WARNING** – Check that the supply voltage required by the product corresponds to the voltage of the distribution network.
-  **WARNING** – To reduce the risk of electric shock, do not use an extension cord to connect the device to the mains. Use a suitably rated GPO as per the standard AS/NZS 3000.
-  **WARNING** – Chemicals can cause internal and external burns. To avoid death, serious injury and/or damage to equipment, wear personal protective equipment (gloves, goggles, mask, etc.) when servicing or maintaining this device. This device must be installed in an adequately ventilated place when equipped with the chemical feed options.
-  **WARNING** – Carefully read the instructions that appear in this manual and on the device. Failure to comply with the instructions can cause injuries. This document must be given to the pool owner, who should keep it in a safe place.
-  **WARNING** – The appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.
-  **WARNING** – Use only genuine Hayward replacement parts.
-  **WARNING** – If the power supply cord is damaged the device must not be used. The power supply cord must be replaced by the manufacturer or similarly qualified persons to avoid any danger.

## INTRODUCTION

The Spa Flow Switch Upgrade Kit is an optional accessory to the Hayward AquaRite+ Chlorinator which enables two different chlorination output rates to be automatically selected depending which body of water (pool or spa) is being filtered at the time. Since pools and spas are different sizes and temperatures, their chlorination needs vary which makes this upgrade kit perfect for maintaining stable free chlorine levels across different bodies of water.

### Installation Outline

The Spa Flow Switch Tee should be installed on the spa suction piping before the pool/spa selection valve at the front of the pump (see Installation Schematic below). Disconnect the power supply to the AquaRite+ unit before connecting the Flow Switch

- » Remove the Dead Front Panel
- » Secure cable to AquaRite+ with Cable Gland
- » Connect Flow Switch wires to the AquaRite+ PCB
- » Configure AquaRite+ to recognise Spa Flow Switch

## COMPONENTS



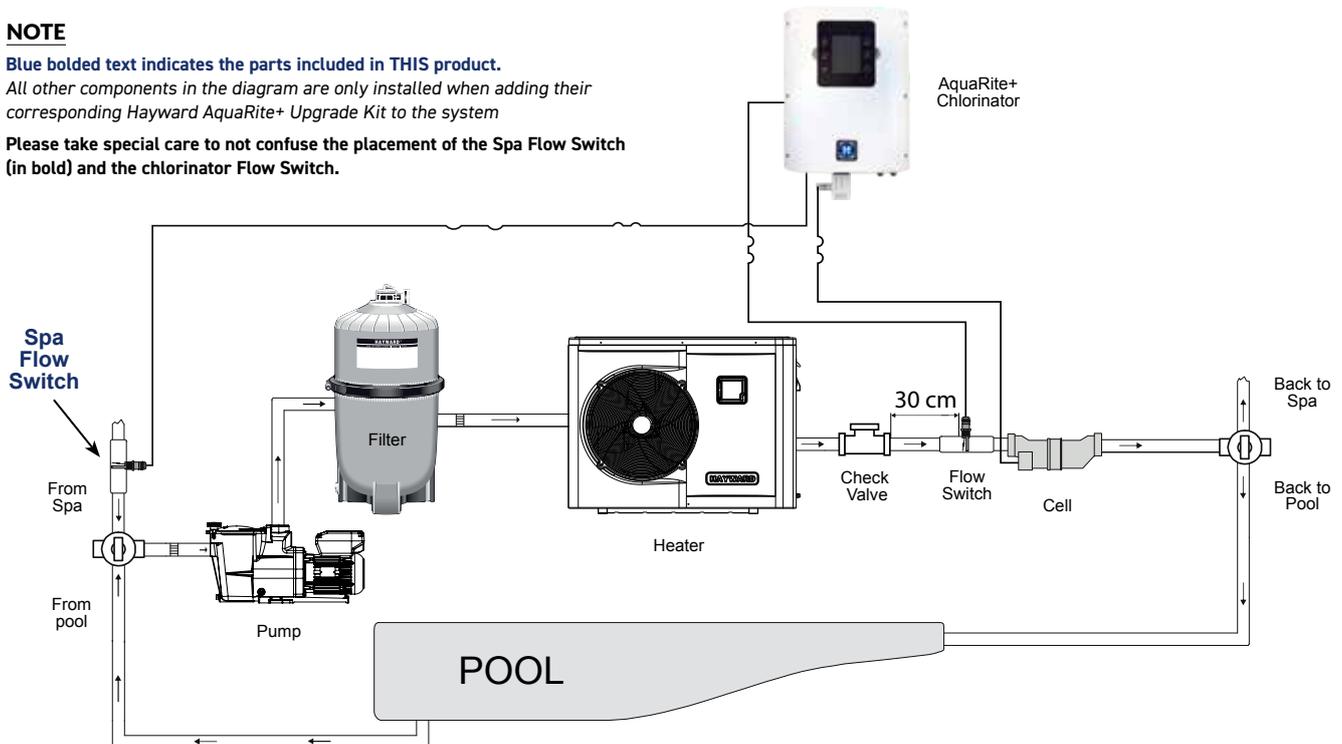
Spa Flow Switch  
Tee Piece



Cable Gland

### NOTE

- » **Blue bolded text indicates the parts included in THIS product.**  
All other components in the diagram are only installed when adding their corresponding Hayward AquaRite+ Upgrade Kit to the system
- » **Please take special care to not confuse the placement of the Spa Flow Switch (in bold) and the chlorinator Flow Switch.**



Installation Schematic

## ELECTRICAL

### Removing the Dead Front Panel

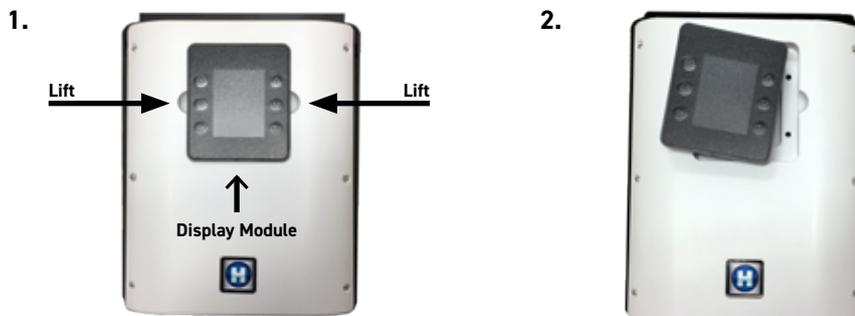
In order to connect the Spa Flow Switch to the AquaRite+ circuitry, the Dead Front Panel needs to be carefully removed. Follow the instructions below to avoid damaging the device and/or its casing.

#### **Caution - Risk of Electric Shock.**

Ensure that the unit has been disconnected from all power supplies before removing the Display and Dead Front Panel. Only a suitably qualified person should remove the Dead Front Panel in accordance with Local/ State/Federal Government regulations and the latest edition of the AS/NZS 3000 Wiring Rules.

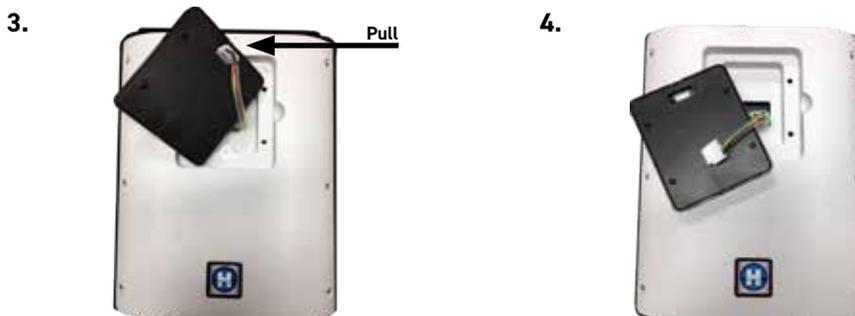
#### **Lift Out Interactive Display Module:**

Remove display module from its compartment. Use the grooves on either side to pry it out by hand. Take care to not use excessive force as the module is still wired to the PCB at this stage.



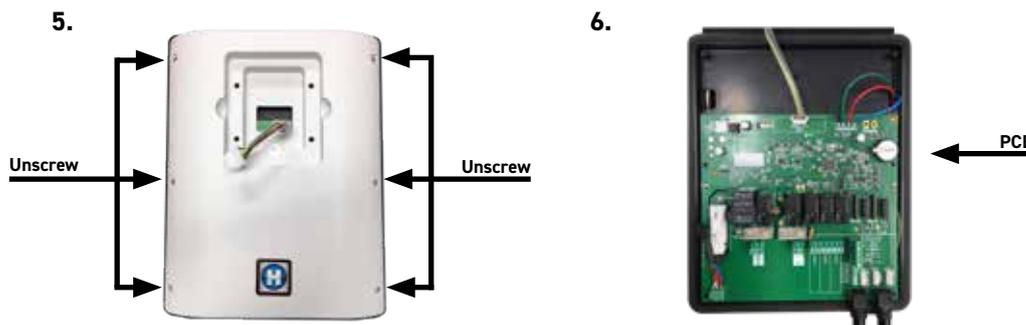
#### **Detach Interactive Display Module:**

Turn over the display module and remove the wired plug from the port on the back of the unit. Store the Display Module where it will not get damaged until it is re-installed.



#### **Unscrew Dead Front Panel:**

Remove the six (6) screws fastening the panel to the unit. Once all loose, lift the panel off the unit to access the PCB.

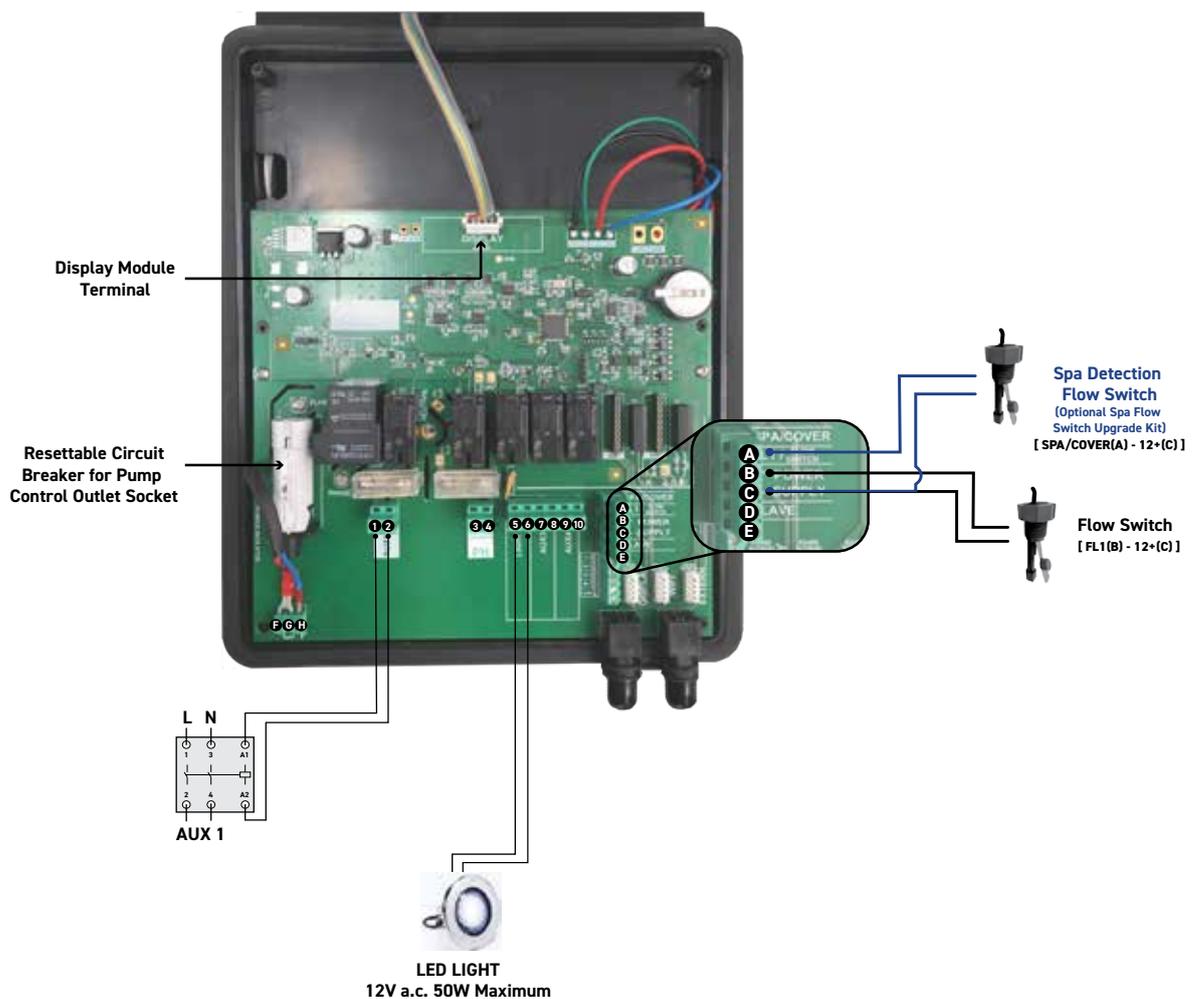


## ELECTRICAL CONTINUED

### Wiring to the AquaRite+

Connect the AquaRite+ to a GPO with a permanent power supply only.

**⚠ CAUTION - This circuit must be protected by a residual current device (RCD) with a fixed residual operating current not exceeding 30 mA.**



Wiring Schematic

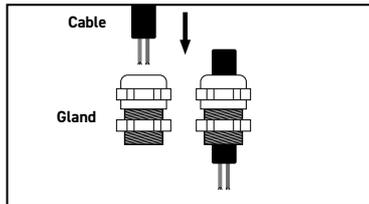
### Description of Outgoing Relays

Name	Description	Terminals	Type of output	Max Load
Filter Pump	Filtration pump control	Socket Outlet	240 V a.c.	7 A
Aux 1	Auxiliary voltage output (for contactor switching control)	1 - 2	240 V a.c.	1 A
pH	Peristaltic acid pump	3 - 4	SELV 24 V a.c.	1 A
Light	Lighting control (One {1} LED light only)	5 - 6	SELV 12 V a.c.	50 W
Aux 3	Auxiliary dry contact	7 - 8	Dry contact	1 A
Aux 4	Auxiliary dry contact (or heating control).	9 - 10	Dry contact	1 A

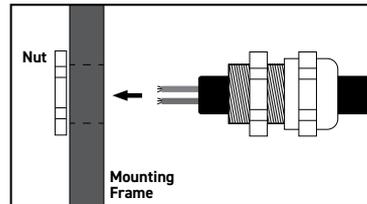
## ELECTRICAL CONTINUED

### Cable Gland Installation

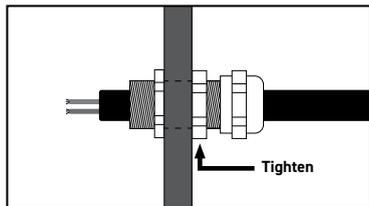
In order to ensure watertight wire connections to the PCB through the AquaRite+ housing, wire cables are to be secured with the black cable glands supplied. The cable gland supplied with the Spa Flow Switch Upgrade Kit is for the flow switch connection.



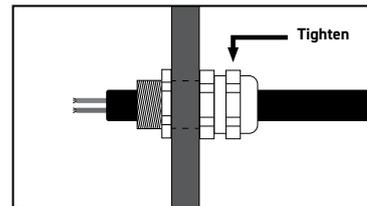
1. Insert the cable into the domed end of the gland and pull through.



2. Hold the nut against the hole on the inside of the mounting frame. Push the cable and gland into the hole whilst simultaneously rotating to screw the nut on to the thread.



3. Tighten gland with a spanner whilst still holding the nut to secure the gland in place.

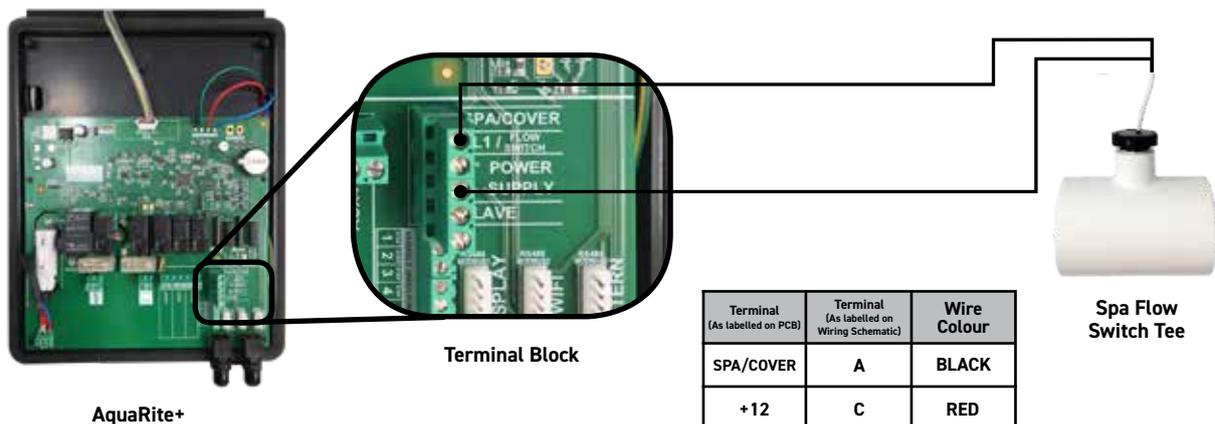


4. Pull the cord through the gland until the intended input point can be reached. Secure and seal the cord in place by fastening the domed cap with a spanner until firm.

**Note:** Use the gland location holes in the bottom of the unit before the sides to ensure all cables are pointing downward.

### Wiring the Spa Flow Switch

Once the Cable Gland installation is complete, the Spa Flow Switch can be wired to its corresponding input. If the Flow Switch wires aren't already stripped back, do so. Screw in the wires, ensuring the connections match the table and image below.



# OPERATION

The Spa Flow Switch allows the activation of the reduced chlorine production mode on the AquaRite+ when the flow switch is closed by a flow of water in the spa suction piping. Follow the instructions below to configure the AquaRite+ to recognise that a Spa Flow Switch has been installed on the system. The existing set up instructions detailed in the AquaRite+ Owner's Manual are still the same.

## Home Screen Configuration

**BUTTONS KEY**

- OK**: Enter Main Menu/ Select & Save
- ←**: Go Back
- ▲**: Navigate Up & Down Through Lists
- ▼**: Navigate Up & Down Through Lists
- +**: Make Adjustments/ Scroll Through Options
- : Make Adjustments/ Scroll Through Options

**Home Screen Elements:**

- 12:30**: Time
- 25° C**: Current water temperature
- electrolysis**: Chlorine production rate in gr/h
- 22 gr/h**: Displays manual salt level measurement
- Pol 1**: Polarity 1
- SPA**: Polarity 2
- Low**: Production automatically reduced to % selected (20% by default)
- : Wait time
- LOW**: Insufficient salt / cell scaled up or the water temperature is very low (<15°C)
- Flow**: Filtration stopped or insufficient flow
- measures**: Filtration relay state
- 3.2 g/l**: Salt concentration
- 15/01/16**: Date of the last salinity measurement
- 25°C**: Water temperature
- 3.2**: Salt concentration (when measurement taken)
- man off**: Communication (Red = Communication fault)
- man off**: Lighting relay state
- man**: Manual
- aut**: Automatic

## Setting the Salt Chlorination Levels

- 1 Electrolysis:** Electrolysis function programming menu in the Main Menu.
- 2 Level:** Chlorine production (gr/h) required for the pool. A value dependent on the pool's volume and conditions. This should already have been programmed during the AquaRite+ installation.
- 3 SPA:** SPA settings activation. Press **○** to select 'ON'. This tells the chlorinator to recognise when there is flow coming from the SPA and to switch to the reduced chlorine production level.
- 4 Reduction:** The % figure that is set for the REDUCTION is based on what the pool chlorine level is set at. For example, if the chlorine level is set to 20 gr/h and a REDUCTION level of 20% is set, when the Spa Flow Switch closes and chlorine production is reduced, it will be 20% of 20 gr/h so 4 gr/h production in spa mode. The default setting for the Reduction is 20% and is adjustable between 0-100%. Press 'OK' to save selections.

**5 Activation:** When the Spa Flow Switch is activated by water flow in the spa suction piping, the 'SPA' mode is highlighted on the Home Screen. This signifies that the chlorinator will now function at the reduced chlorine production level.

## WARRANTY

**STANDARD CONDITIONS** - Australia and New Zealand Hayward Pool Products (Australia) Pty Ltd (ABN 66 083 413 414) ("Hayward Pool Products (Australia)") distributes Hayward Pool Products in Australia and New Zealand and provides the following warranties:

### STATUTORY RIGHTS

1. The benefits to the consumer under this warranty are in addition to other rights and remedies of the consumer under the laws in relation to the goods and services to which the warranty relates; and
2. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You may be entitled to a replacement or refund for a major failure and for compensation for any other loss or damage. You are also entitled to have the goods repaired if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

### LIMITED WARRANTY

Hayward Pool Products (Australia) warrants that its products are free from defects in materials and manufacture for 12 months from date of supply by Hayward Pool Products (Australia) plus 90 days to allow for installation and supply (unless otherwise specified). Hayward Pool Products (Australia) will at its discretion, except in the circumstances described below, either repair or replace any product proven to be defective during the warranty period for either materials of manufacture or alternatively pay the cost of repair or replacement within 90 days of the receipt of the defective product, barring unforeseen delays. This warranty is for domestic installation only, is personal to the original purchaser and does not pass to any subsequent purchaser(s).

- To the extent permitted by law, Hayward Pool Products (Australia) will not be liable for products which fail or become defective during the warranty period as a result of freezing, accident, negligence, improper installation, water chemistry, misuse, tampering or lack of care.
- To the extent permitted by law, except as set out in this Warranty, Hayward Pool Products (Australia) excludes all statutory or implied conditions and warranties and any other liability it may have to the Customer (including liability for indirect consequential loss) that may arise under statute or at law including without limitation for breach of contract, in tort (including negligence) or under any other cause of action.
- To the extent permitted by law, except as set out in this Warranty, Hayward Pool Products (Australia) limits its liability under any condition or warranty which cannot be legally excluded in relation to the supply of Goods and Services to:
  1. Repairing the Goods;
  2. Replacing the Goods or supplying equivalent Goods or Services again;
  3. Paying the cost of replacing the Goods or of supplying equivalent Goods or Services again; or
  4. Paying the costs of repairing the Goods.

Claims made for warranty, labour or infield support will not be accepted by Hayward Pool Products unless evidence is provided that installation has been completed in accordance with standard warranty conditions. Please refer to specific program document for details.

### WHAT TO DO IF YOU HAVE A WARRANTY CLAIM

The faulty product is to be returned to the place of purchase, or where installed by an approved agent to an authorised warranty agent. No returns will be received directly from end consumers by Hayward Pool Products (Australia). You are responsible for arranging removal of the defective product and arranging installation of the repaired or replacement product, all transportation (and any applicable insurance costs) of transporting the product to the supplier and transporting the replaced or repaired product from the supplier. All returns are subject to Hayward Pool Products (Australia)'s written approval and must be accompanied by either:

1. A Field Inspection Report authorised by the Local Customer Service Manager or Authorised Agent; or
2. A "Return Goods Authorisation" form obtained from Hayward Pool Products (Australia) prior to shipment.

## WARRANTY CONTINUED

### UNAUTHORISED RETURNS WILL NOT BE ACCEPTED

- All Hayward Pool Products (Australia) warranty parts taken as an across the counter warranty exchange must be held for inspection authorisation has been given by the Local Branch Customer Service Manager to dispose of them. Hayward Pool Products (Australia) reserves the right to provide replacement or credit for any items authorised under this warranty program.
- All claims must be accompanied by a copy of original purchase receipt, clearly stating date of purchase. All serial numbers must place the product within the warranty period or a proof of purchase is required. No claims in respect of the product can be made after the expiration of the warranty period.

Warranty service requests can be faxed to:  
**Hayward Pool Products (Australia) Pty Ltd.**  
**Fax: 1300 POOLS2 (1300 766571)**  
Or submitted to your local Hayward Pool Products (Australia)  
Branch Office.

A standard form is available to request warranty service. We will require:

- Installation contact information including address, daytime telephone numbers, home phone number, email etc.
- Complete model and serial number
- Proof of purchase (if the serial number was manufactured > 1 year ago).
- Evidence that purchase and Installation was completed in one transaction, by the one business or organisation.
- Nature of problem including specific faults and error codes

**To determine if you are eligible for an extended warranty register your Hayward pool products online today at:**  
**[www.hayward-pool.com.au](http://www.hayward-pool.com.au)**



Warranty Registration

Complete the online form to register your equipment under the Hayward Warranty [FAQs](#) | [Contact Us](#)

Register Your Pool Products

**Know your model?**

If you know your model number or the name of your product, just start typing in the box below and choose your product from the list as it populates.

Enter your model number or product name

Not sure of your model name or number? [Start here](#)

Step 1: Select your pool type.

Pool Type







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