

# Installation – Action Switch Box

Aboveground Rainwater Harvesting System with Automatic Mains Water Diversion



### IMPORTANT

- a) Plumbers, drainers and electricians must refer to the Action Tanks Installation Instructions, Onga Pump and Water-switch Owner Manuals.
- b) **Please leave the installation instructions in a safe dry place inside the Action Switch Box for reference by others.**
- c) **All instructions, homeowner manuals and warranty information must be passed onto the owner OR builder (to pass on to owner/tenant).**
- d) **Check that these instructions correlate to the tank model to be installed.** Correct installation of this Action Tank by a qualified tradesman, licensed in the state and local authority in which the system is to be installed, is mandatory for warranty and the quality of water stored.



Action Switch Box

### CONSIDERATIONS

- a) Action Rainwater Harvesting Systems in most cases will require no other backflow prevention devices but you are advised to seek confirmation from the relevant local authority or council.
- b) Consideration should be given to the quality of water entering the Action Switch Box. High/abnormal chemicals, heavy metals, biological content can affect the operation of the systems and may void the warranty.

### REQUIREMENTS (items not supplied)

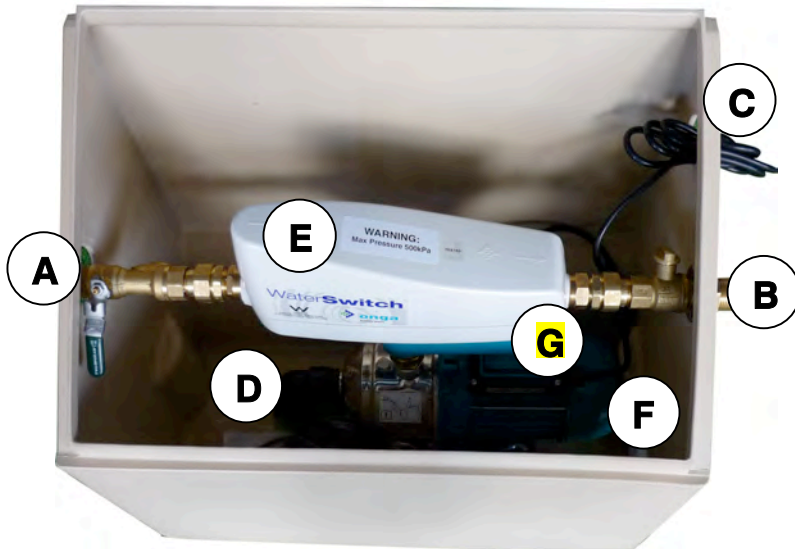
Items listed below are a guide only, all other materials required to complete the Action Tank installation are standard products and fittings, which will be subject to your site conditions and installation requirements.

- **Fasteners / Brackets to secure box to wall/post (refer to step 1.3)**
- **Additional hose, pipes and plumbing fittings as required.**
- **Inline filter to be installed at tank outlet (refer to step 2.4)**
- **Float switch extension cable (if required) (refer to Step 2.6)**
- **Non-return valve (if required) (refer to step 3.3)**

## 1. PLACEMENT

- 1.1. **IMPORTANT:** IT IS RECOMMENDED THE ACTION SWITCH BOX IS INSTALLED WITHIN FOUR (4) METRES OF YOUR TANK FOR OPTIMAL PERFORMANCE.
- 1.2. **Position the Action Switch Box in a suitable location near the water tank.**
- 1.3. **Secure the Action Switch Box.** The Action Switch Box can be screwed directly onto a wall or post using suitable fasteners or brackets.

## 2. CONNECTIONS



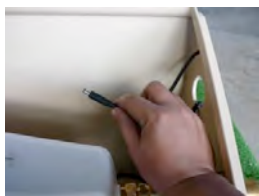
**A:** Mains Water Inlet  
**B:** Service Line Outlet  
**C:** Power Plug  
**D:** Tank Water Inlet  
**E:** Water Switch  
**F:** Pump  
**G:** Indicator Light 'Mains Water In Use'

### Loose Items:

- 1 x Tank Level Float Kit
- 1 x Maintenance Service Cable
- 1 x Manual Pack

- 2.1. Check your mains water pressure is less than 500kPa.
- 2.2. Flush the mains water line and connect the line to the **Mains Water Inlet (A)**.  
**IMPORTANT: Please leave isolation valve closed.**
- 2.3. Connect your service line to the **Service Line Outlet (B)**. This is the line that will supply water to the designated applications (such as toilet, cold water laundry tap, outside tap).  
**IMPORTANT: Please leave isolation valve closed.**
- 2.4. Flush the tank water line and connect to the **Tank Water Inlet (D)**.  
**RECOMMENDATION:** We recommend the installation of an inline filter (not supplied) at the tank outlet to prevent sediments blocking the pump.
- 2.5. Install the tank level float inside the tank. (**NOTE:** You may need to remove the tank leaf strainer for easy access and re-fit on the job is completed.) The bottom of the float must sit 75mm above the tank outlet. Bring the float cable out from the top of the tank.
- 2.6. Feed the float cable through a conduit and into the Action Switch Box. as shown in Figure 1. A float switch extension cable may be required, which can be purchased through your local Onga dealer or Action Tank Industries. **NOTE:** Installation further than the required 4m can reduce pressure. For extended distance consult your local 'ONGA' pump dealer.
- 2.7. Plug the float socket to the underside of the Onga Water Switch. Loop the excess cable on the brass fitting with cable ties provided as shown in Figure 2. **NOTE:** Please make sure the float socket is securely connected.

**Figure 1: (refer to step 2.6)**



**Figure 2: (refer to step 2.7)**



### **3. COMMISSIONING**

**Materials needed:**

- **Non-return check valve may be required (refer to step 3.3)**

**IMPORTANT: OPEN ALL STOP COCK/VALVES INSIDE THE CONTROL BOX SLOWLY ONE AT A TIME. FAILURE TO DO SO COULD CAUSE 'WATER HAMMER' AND CAN DAMAGE THE WATERSWITCH.**

- 3.1. If the tank is empty,** fill the tank with water to about 300mm in depth.
- 3.2. Connect the Power Plug (C) to a power source.** This power source must be on a stand-alone circuit protected by a circuit breaker.
- 3.3. Open the tank outlet valve. *NOTE:*** *Your pump may need priming and you may need to install a non-return check valve if the bottom of the Action Switch Box is higher than your tank outlet (refer to Onga Pump instructions).*
- 3.4. Open the isolation valve at the Mains Water Inlet slowly.** Failure to do this can cause damage to the Water Switch.
- 3.5. Open the isolation valve at the Service Outlet.**
- 3.6. Make sure there are no water leaks inside the box.**
- 3.7. Turn power ON to the Action Switch Box.**

**CHECK TANK WATER SUPPLY:**

- 3.8. Turn on the outside tap/application that is connected the Action Switch Box.** You will need to run the water for a little while to let all the air out from the line. The indicator light at the water switch should be on "TANK". Turn off the tap. The pump should stop after 1 minute. If the pump continues to run constantly or is turning on and off by itself refer to the Onga pump trouble shooting guide.
- 3.9. Check toilets and washing machine cold water tap.** Make sure water is available at these service point and no water leaks.

**CHECK MAINS WATER SUPPLY:**

- 3.10. Turn power OFF to the Action Switch box.** Turn on the outside tap to make sure water is coming out. Indicator light at the water switch should be on "MAINS".
- 3.11. Turn power back ON to the Action Switch box.** The system is now ready for use.

### **4. OWNERS MANUAL**

- 4.1. IMPORTANT Complete the 'Owners Manual' enclosed** with the warranty sheets located in the Action Switch Box making sure that the serial number of the Action Switch Box has been entered in the manual (this number can be found written on the inside of the lid and on a sticker situated on the back of the Action Switch Box).
- 4.2. PASS THE COMPLETED HOMEOWNERS MANUAL ONTO THE PROPERTY OWNER OR BUILDER.**

### **5. TROUBLE SHOOTING**

Please see relevant Owners Manuals for Trouble Shooting Steps or call Action Tanks Support on the numbers below. For Onga Water Switch trouble shooting please contact Pentair Water on (03) 9574 4000.

Additional information is available on our web site [www.actiontanks.com.au](http://www.actiontanks.com.au)  
Action Tanks (Qld) 1800 066 587 (NSW) 02 9453 0300 (Vic) 1300 65 40 40