

WL7 IR Module Installation Manual



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Waterlogic Foot Pedal System

Safety

Please ensure that you carefully read the information in this manual and for any parts, refer to the specific part listing. The below is not a step by step procedure and only trained members of staff are to follow these instructions.

Caution! Please ensure the retrofit of Waterlogic IR modules are only carried out by trained and experienced technicians. The Waterlogic IR module retrofit is NOT to be carried out by ANYONE who is not experienced or trained on Waterlogic systems.

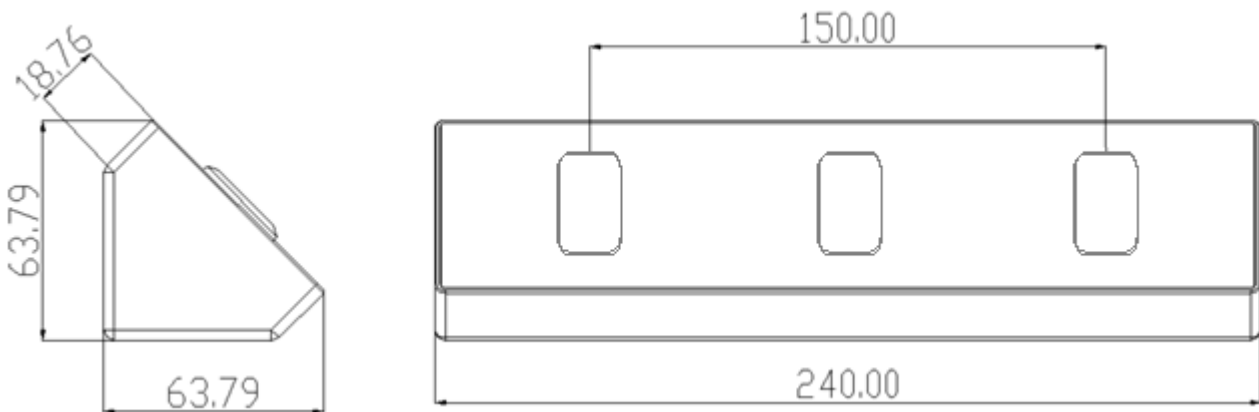
Warning! Take extreme caution when working with electricity, safe isolation processes MUST be followed before carrying out any retrofit work.

Do not operate if damaged! If the machine or supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

What is the Waterlogic IR module?

Waterlogic has produced a hands-free solution to help our customers achieve the highest hygiene standard in the workplace. Our IR module fit most of our dispensers (including Table Tops) providing access to the same great quality water.

Waterlogic IR Module Specification



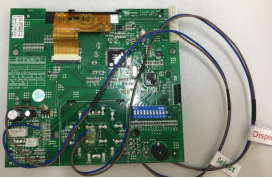
Part Numbers and Ordering

Ordering


Please order through Waterlogic with the below part number kit numbers. IR Modules and PCBs are NOT universal for all models.

- PCBs will need to be ordered depending on the model of your machine.

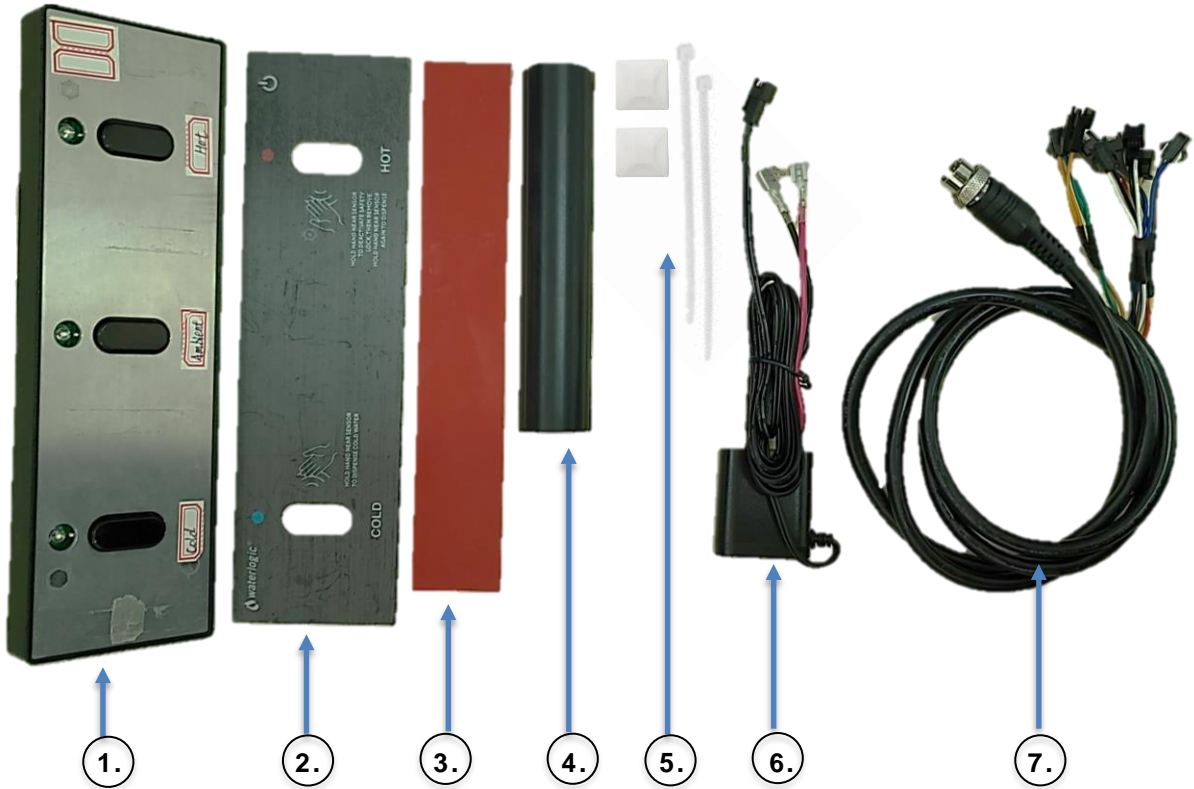
PCB Upgrade Kit Part Numbers

Example Photo	Part Number	Description
	K-AK-EL-0207-WL7FW	WL7 PCB Upgrade Kit – Old Version, ≤19J30 models Include Main and UI PCB
	K-AK-EL-0207-WL7FW-NEW	WL7 PCB Upgrade Kit – New Version, ≥19J31 models

IR Module Part Numbers

Example Photo	Part Number	Description
	K-AK-ST-0347-L00-00-WL7	IR Module Kit WL7 (Select Dispense)

What is included in the IR Module Kit?



Item Number	QTY	Description
1.	1	IR Module
2.	1	UI Label
3.	1	Double sided tape for attachment
4.	1	IR Module wire trunking 150mm
5.	2	Cable tie with mount
6.	1	Power adaptor
7.	1	Signal/power cable for IR module

WL7FX Installation Instructions

Parts and tools required

In order to make the retrofit to the WL7FX models, you will need the following parts/tools;

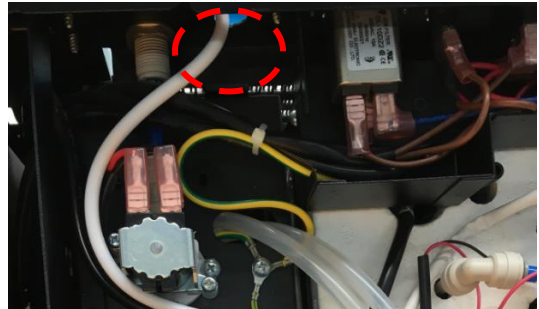
Example Photo	Part Number	Description
	K-AK-ST-0347-L00-00-WL7	IR Module Kit for WL7(Select Dispense)
	K-AK-EL-0207-WL7FW K-AK-EL-0207-WL7FW-NEW	WL7 PCB Upgrade Kit – Old Version, ≤19J30 Models Includes Main PCB WL7 PCB Upgrade Kit – New Version, ≥19J31 Models
	-	Selection of screwdrivers
	-	Appropriate Personal Protective Equipment for the retrofit

Installation

It is advised to turn off the water supply to the machine and disconnect the water supply during these steps to make it easier to maneuver the machine. If you have enough working space around you, this step is not necessary.

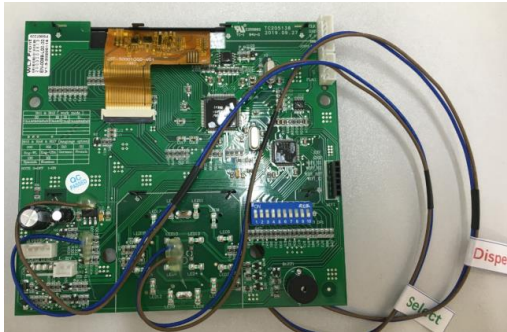
Safely isolate the WL7 from the main power supply. To do this, remove the power plug from the main socket and unplug the other side of the power harness from the back of the machine. Place the power lead in a safe position away from any water or trip hazard locations – It is recommended to place in your tool bag.

Locate the knockout point at the back of the machine and carefully remove. This hole will allow for the IR module wire harness to pass through.



Before carrying out the installation of the new pedal kit PCB – ensure that you have correctly set up the new PCB for your market as per below;

User Interface PCB



Bit1 & Bit2 (work mode)			
00	10	01	11
C&A&S&H&ExH	C&A&S	C&A	C&A&H&ExH
Bit5 & Bit6 & Bit7 (language option)			
000	001	010	011
Eng-WL	Eng-USA	German	French
100	101		
Spanish	Russian		

NOTE: 0=OFF 1=ON

Main PCB



H-TMP	1	2	EH-TMP	3	4	Filter-T	5	6	UVC/CDS	Sleep
87	<input type="checkbox"/>	<input type="checkbox"/>	95	<input type="checkbox"/>	<input type="checkbox"/>	None	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
75	<input type="checkbox"/>	<input type="checkbox"/>	80	<input type="checkbox"/>	<input type="checkbox"/>	3M	<input type="checkbox"/>	<input type="checkbox"/>	7	8
93	<input type="checkbox"/>	<input type="checkbox"/>	87	<input type="checkbox"/>	<input type="checkbox"/>	6M	<input type="checkbox"/>	<input type="checkbox"/>	UVC	ON
87	<input type="checkbox"/>	<input type="checkbox"/>	95	<input type="checkbox"/>	<input type="checkbox"/>	12M	<input type="checkbox"/>	<input type="checkbox"/>	CDS	OFF

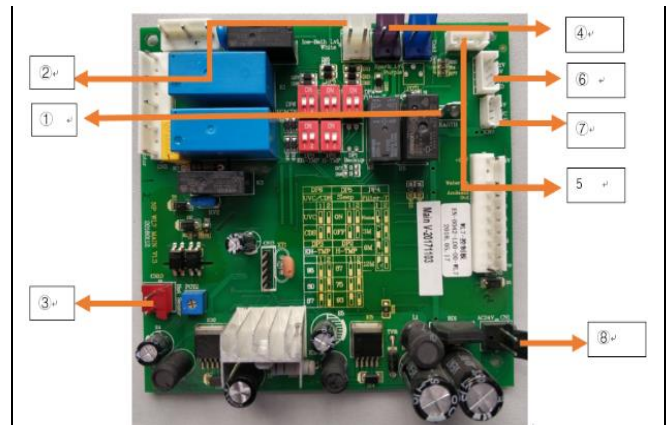
Remove existing UI PCB and replace with the new Upgrade PCB (Ensure the correct PCB kit number is used). **Note:** If you have an older Version 1 PCB (Serial number $\leq 19J30$, before 30/10/2019 manufacture date) you will need to replace both the UI and main PCB and remove the small ice thickness PCB, if you have the new version 2 PCB (Serial number $\geq 19J31$, after 31/10/2019 manufacture date) you will only need to replace the UI PCB only. Please see below for the PCB Versions.

PCB Versions

Version 2 (New)



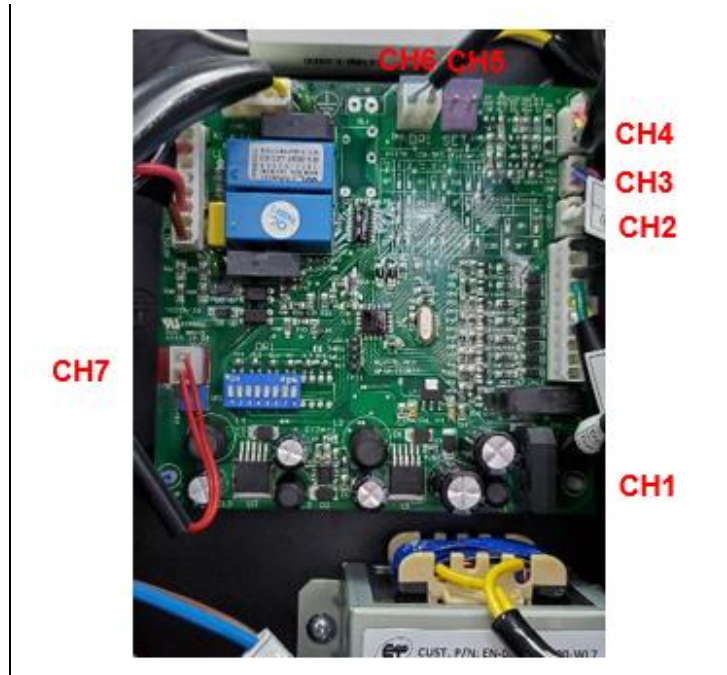
Version 1 (Old)



Connection Description	Location on V2 New PCB	Location on V1 Old PCB
Ground Wire	N/A	1
Ice Bath Float	2	2
Hot Sensor	3	3
Sparkling Water Level Probe	4	4
UI PCB	5	6
UVC/CDS Sensor	6	7
Ice Probe Connector	7	5
24vDC Power Supply	8	8

WL7FX Main PCB Connections

For WL7 main PCB, please follow the below steps for replacement of the PCB;



Connection	Description
CH1 "POWER"	Connect transformer connection
CH2 "PROBE"	Connect Ice detection probe
CH3 "UV-SEN"	UVC/CDS Sensor
CH4 "+21v"	Connect UI PCB
CH5 "SP-SW"	Connect Sparkling Level Probe
CH6 "BATH-SW"	Ice bath level float
CH7 "HOT-SEN"	Hot sensor

Carefully remove the control knob and button from the user interface, with this removed, undo the supporting screws on the inside of the front door panel.

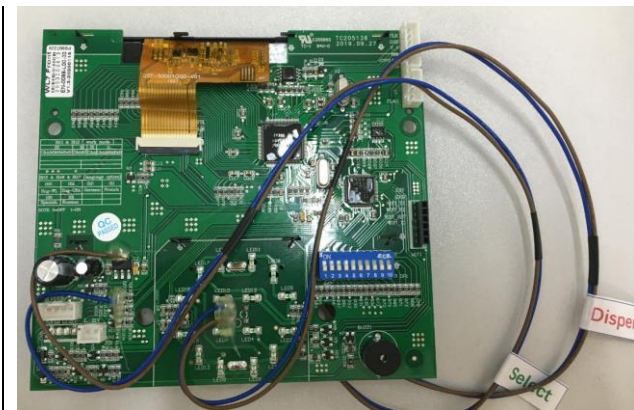


Connect the user interface PCB with the main PCB and ensure the rainfall PCB is also connected before refitting into position. Secure the new PCB with the same 4 retaining screws, caution: do not overtighten when refitting. Once secure, refit the button and control knob to the user interface.

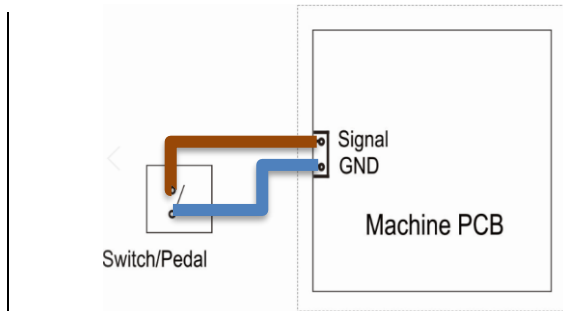
For Version 1 replacements only: You will need to replace the main PCB. The new PCB also replaces the small additional ice thickness PCB. Start the replacement by removing all connections from the main PCB and disconnecting the small ice thickness PCB. Due to the logic of the new PCB, you will need to drain the Ice bath and refill. If the Ice bath is full of ice, make sure the ice is melted by introducing 3 - 4 litres of warm water (maximum 100 degrees) into the ice bath and continue draining until empty. Ensure the new PCB is connected as per the PCB Version section of this manual.

Route the IR Module cable through the knockout hole from earlier. Connect the PCB Dispense cable to the Hot/Dispense cable of the IR Module. Connect the PCB Select cable to the Cold/Select Cable of the IR Module. Connect the Power cable of the IR Module to the connection from the power pack. The WL7 IR module uses only 2 options, one is for selection and the other is for dispense, ensure you connect the correct cables with the correct options.

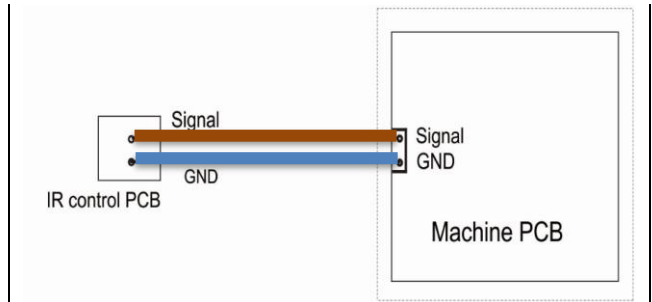
NOTE: The cable that connects the IR Module to the PCB has multi-use connections. For example, one connection may be labelled “Hot Dispense”, and this should be read as Hot OR Dispense. In the case of the WL7, only a connection for “Select,” “Dispense,” and “Power” should be made, any other connections go unused.



Pedal PCB Connections



IR Module PCB Connections



It is important to make sure the signal and ground wires are connected the correct way. Please ensure signal and ground are connected correctly for the IR module.

There is a subtle difference in how the two leads from the PCB connect to the IR Module cable. See photos below.

With the connectors oriented as shown, the blue and brown wires should change sides from one end to the other **FOR THE SELECT WIRE ONLY**.



The Dispense wire should be opposite, where the wires end up on corresponding sides of each connector.

IF YOU HOOK UP THE IR MODULE AND THE SELECT FUNCTION WORKS PROPERLY, BUT THE DISPENSE FUNCTION IS UNRESPONSIVE, ATTACH THE POLARITY SWAP JUMPER BETWEEN THE BLACK CONNECTOR AND THE DISPENSE LEAD OF THE IR MODULE CABLE, AS SHOWN BELOW.



Adding this polarity swap jumper should align the wires correctly and allow the dispense function of the IR Module to operate properly. Again, only use this jumper if the **SELECT FUNCTION WORKS, BUT THE DISPENSE FUNCTION DOES NOT WORK**.

IR Module Power Connection

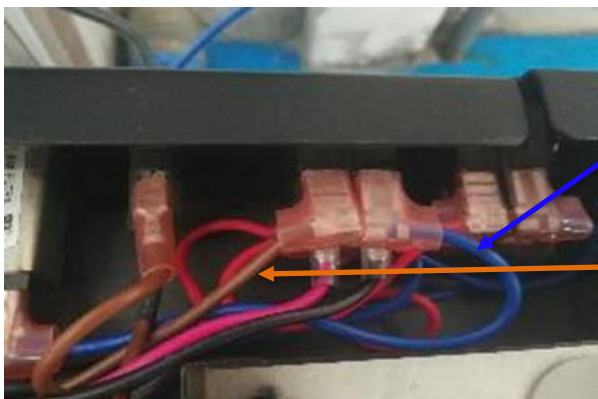
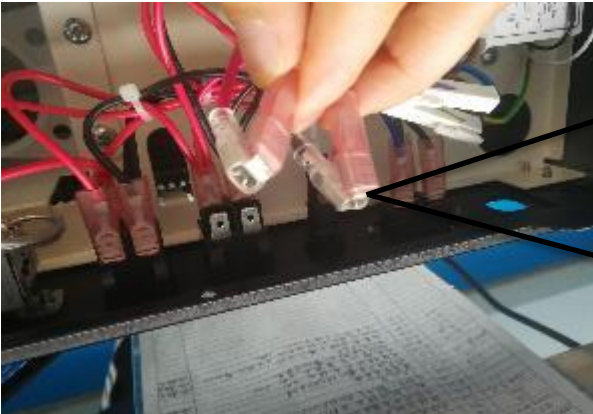
It is imperative the below is followed **correctly** and with the machine unplugged from power.

Taking the power adaptor (item 6, page 6) you will need to connect the spade fittings to the power source located at the rear of the machine.

Connect the power Inlet wire, Live and Neutral together with the IR Module wire and connect back to the switch again.

Ensure the following is connected

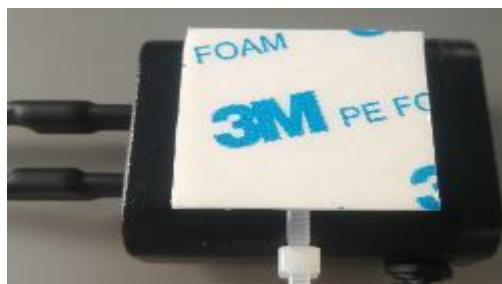
- IR adaptor **Red Wire** connector + Machine fuse wire (**Brown**)
- IR adaptor **Black Wire** connector + Machine socket/EMI wire (**Blue**)



Wire to
socket/EMI

Fuse wire

Carefully attach the power pack to the back of the casing surrounding the EMEI located at the back of the machine using the mount and cable tie.



IR Module Connection

With the IR Module Connector wire routed to the outside of the machine, slip the wire into the wire trunking, then make the connection to the IR Module. Using the double sided tape, attach the IR module to the top of the machine in the desired position.



With the IR module in position and the wiring harness safely installed, you can now turn on the water supply and re-establish the power supply. Check for correct operation of the IR module and ensure all water options are operating correctly.



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