



Smart Spa Remote Installation Guide

Alexa-Pentair Easytouch, Intellitouch and Compool

March 2024

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1 Installing the Smart Spa Remote – Pentair Easytouch/Alexa circuit board

- Connect the Smart Spa Remote circuit board as shown below

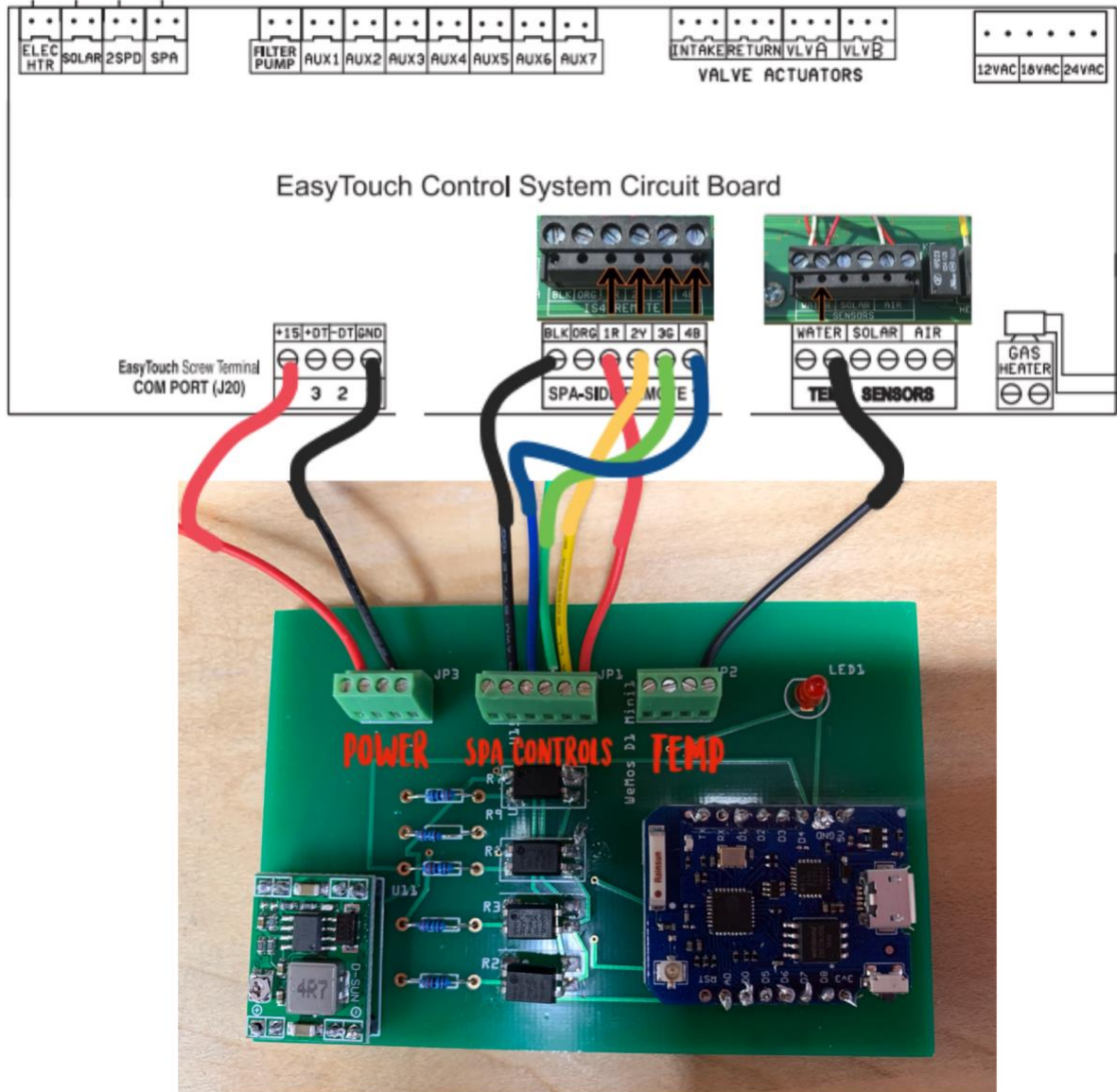
To avoid damaging the Smart(Alexa) Spa Remote PCB from Static Electricity

Steps:

- Please wear **shoes with rubber soles**
- **avoid dragging board**
- **hold board on green sections only**
- **avoid touching components**
- **LASTLY TURN THE PENTAIR EASYTOUCH OFF BY UNPLUGGING FROM POWER/BREAKER**
 - Connect the Spa control wires 1st
 - Connect the Temp Control and Pentair Easytouch Temp Sensor, see below, red to red and black to black, Then also connect the circuit board black to the temp sensor black screw.
 - Connect the Power as shown below, red led will light up with power connected to Pentair Easytouch.
 - Place circuit board in controller where you can extend the external antenna to the outside of the Pentair Easytouch Control Box, We recommend putting sticky tape on back of board and mounting to left inside of Pentair Easytouch metal enclosure so that antenna can extend out one of the bottom cut outs.
 - Connect the Smart Spa Remote PCB Temp Monitor wire to either pool or spa black depending on where you connect the temperature sensor to the Pentair Easytouch.

Wiring Diagram Figure Below

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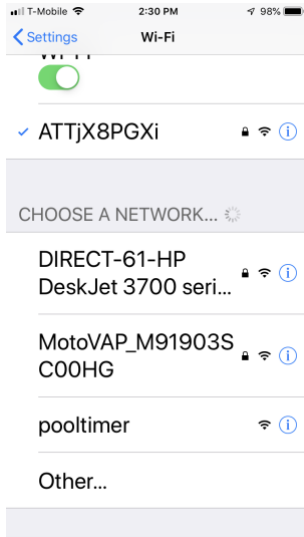
- [Smart Spa Remote Temp Sensor](#) Smart Board JP2 Black wire to Pentair Easytouch water white temperature connector.
- [Smart Spa Remote 5 Spa Controls](#) Smart Board JP1 wires to Pentair Easytouch Spa Side Remote Terminal, Black to Black, Red to 1R, Yellow to 2Y, Green to 3G, Blue to 4B
- [Smart Spa Remote Power wires](#) Smart Board JP3 to Pentair Easytouch Com Port, [Smart Spa Remote Red](#) wire to Com Port #4, [Smart Spa Remote](#) Black Wire to Com port #1.

2 Setting Up Smart Spa Remote

Once the Smart Spa Remote circuit board has been installed you will want to begin the software setup and configuration.

1. *Power on the Smart Spa Remote by plugging in the power as shown in figure 1 above. You should see a red light on the circuit board. Once the red power led is on you may proceed to configuring Alexa to discover the pool devices.*
2. *Configure the smart Spa Remote by using your smart phone. Confirm the smartphone has access to the home owner wifi by entering setup on your phone. If you don't see the homeowner wifi displayed when scanning for SSID's you will need the home owner to add a range extender inside the home near the Pentair Easytouch Pentair Easytouch or purchase a SMA wifi extension wire from amazon to get the antenna closer to your wifi signal.*
3. *The smart Spa Remote PCB once powered up will begin broadcasting as a hot spot with the name "pooltimer".*
4. *You will select **pooltimer** SSID from your phone.*

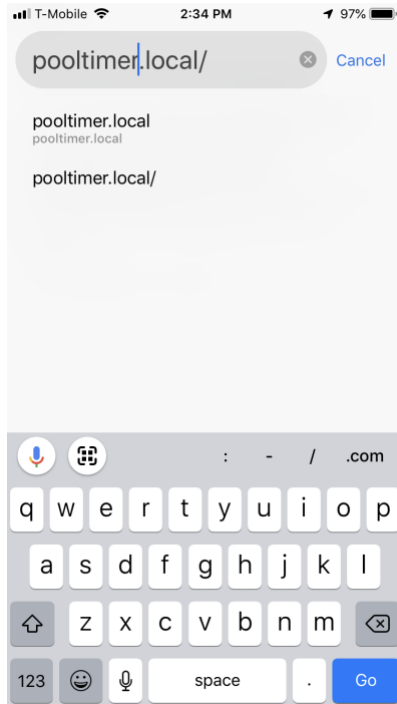
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Once initially selected the smart Spa Remote will try to connect over the internet so that it can communicate with Alexa and Smart Spa Remote as part of the registration process. Once you select the pooltimer SSID the phone should automatically launch a configuration screen from your default browser. If the browser does not appear you may begin the registration process by going to your favorite web browser like Chrome or Safari.

1. Enter **pooltimer.local/** into the browser where you would normally enter something like <http://www.test.com>

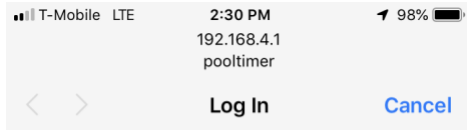
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2. Once you enter **pooltimer.local/** a screen will pop up that will allow you to enter the correct wifi SSID for the home where you have installed the smart Spa Remote. You will want to verify the SSID and password on your own phone 1st to insure the SSID is accessible from the location of the smart Spa Remote.

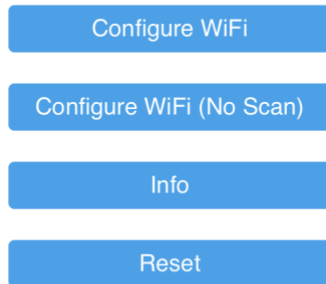
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See Below:



pooltimer

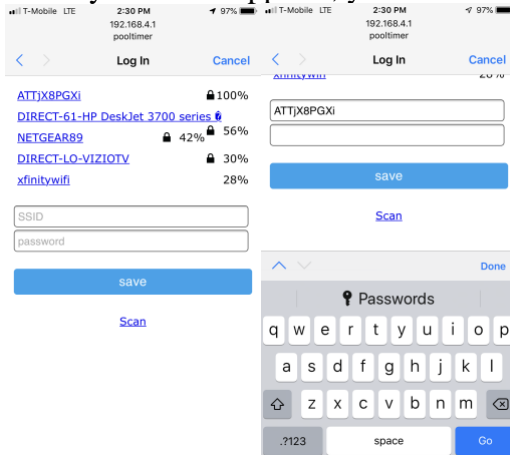
WiFiManager



1. Select Configure Wifi, this will cause the Smart Spa Remote to begin scanning for SSID's. It will show signal strength. If the SSID of the homeowner does not appear you do not have a strong enough signal to complete the install. You will need to have the home owner acquire a SSID signal enhancer inside the home near where you are installing the smart Spa Remote.

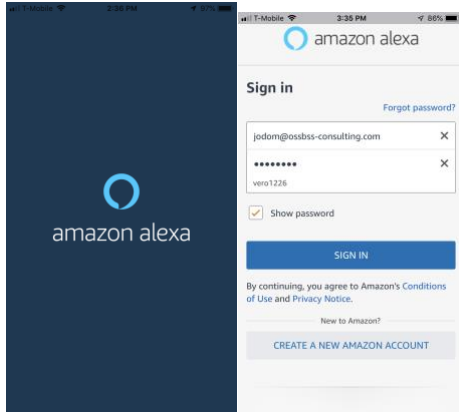
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2. When your SSID appears, you will select it. In this sample case it is ATTjX8PGX.

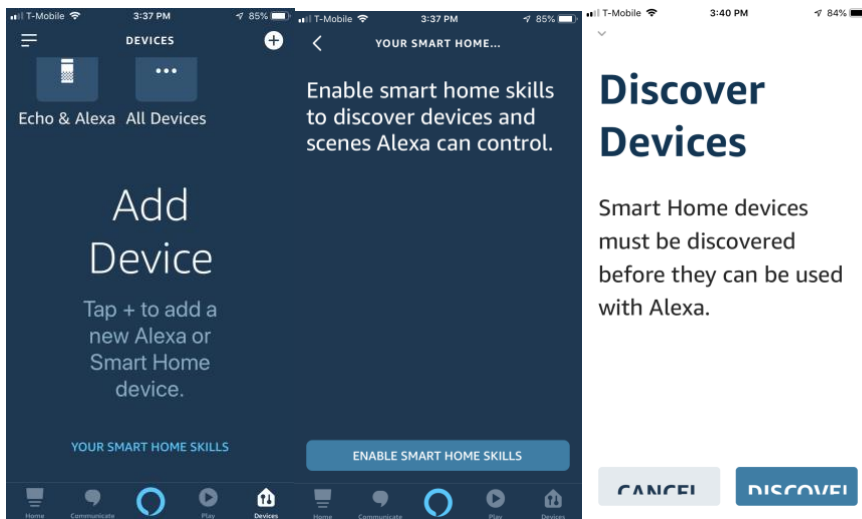


1. Once you select your SSID the screen automatically fills in the SSID with your selection. It will then tab to password where you will enter your SSID password and select the “SAVE” button.
2. This will allow the Smart Spa Remote to logon to the smart Spa Remote server and discover the devices you will now activate in the Amazon Alexa App. A **blue led** will light up on the smart spa circuit card when connected. If the Blue LED does not light up you will need to verify you entered the correct SSID and Password. Then once connected (blue led is on) you will need to download the **Amazon Alexa app** to your phone.
3. You will need to use your (homeowners) Amazon sign on to link the Amazon Alexa App to the Smart Spa Remote. If the homeowner doesn't have an amazon account, you will need to create a new “**amazon account**” see below:

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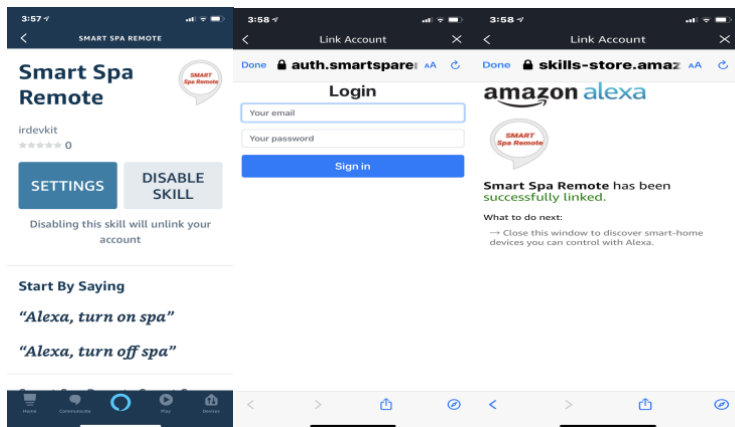
1. Once the account has been created, sign on to your amazon Alexa app. You will then see a screen to configure Alexa, see below”. Before you can add devices, you need to add a Smart Skill, select enable smart home skills and search for “SMART SPA REMOTE”. This will allow Alexa to discover the Smart Spa Remote devices.



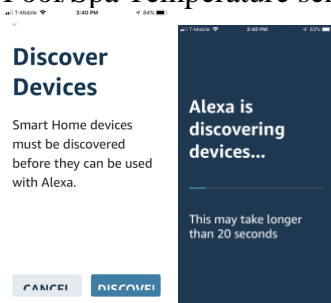
2. The Enable Screen will appear, select enable to use.

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3. Enter the email and password that comes with your Smart Spa Remote. Each Smart Spa Remote will have a unique email and password and will be taped on the Smart Spa Remote unit.
4. Enter login and you should then see the screen that Smart Spa Remote has been successfully linked.



5. Now that the Smart Spa Remote has been successfully linked to Alexa its time for Alexa to discover the Smart Spa Remote devices. Select Discover button. You will see Alexa discovering devices. You should see 5 devices discovered. 4 Spa/Pool Functions and 1 Pool/Spa Temperature sensor.



- 6.

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3 Configuring Smart Spa Remote Discovered Devices:

3.1 How to Configure Alexa discovered devices

The Smart Spa Remote contains:

Discovered Devices (5)

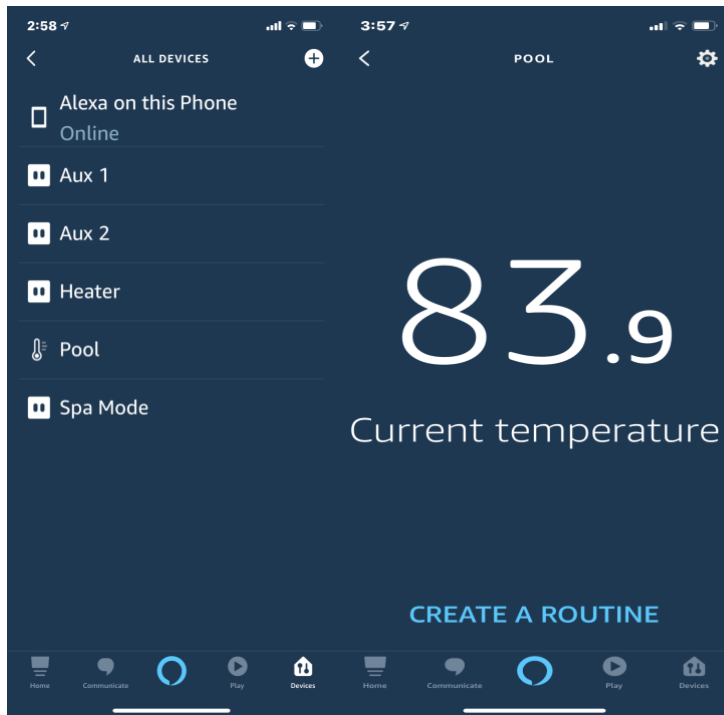
Relays #1-#4 plus Temperature Sensor

- 4 Button Spa Remote Functions(Smart Alexa Spa Remote) emulated
 - These functions can be configured for your requirements
 - Button 1 comes set for Spa/Pool mode
 - Button 2 is set for Heater
 - Button 3 is set for Aux 1
 - Button 4 is set for Aux 2
 - Temperature Sensor is set for Spa/Pool

- Remember you can change any of these names in the Alexa app, for the Temperature Sensor you can ask Alexa “ What is the Spa Temperature” so just use the name spa for the sensor and Alexa already knows it is a temperature sensor so that is what allows you to say Alexa “ What is the Spa Temperature?” , if you are monitoring the pool then change the sensor to Pool.

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SEE PICTURE BELOW



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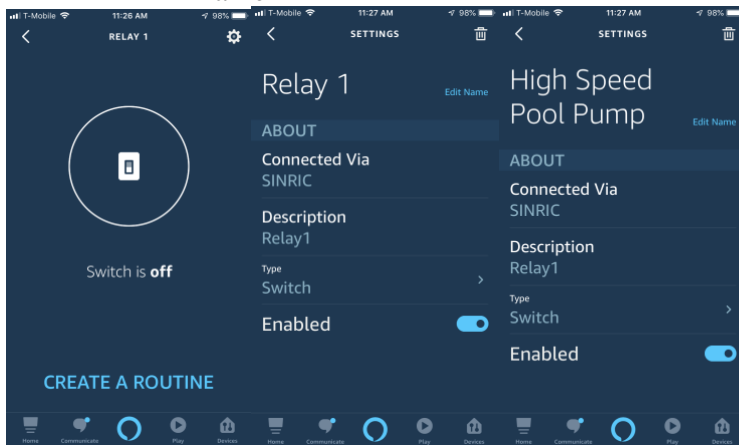
- 1 Pool Temperature Gauge
 - 2 wire connection for **Pentair Easytouch Water Temp Sensor with 20' Cable**
 - **This can be purchased with instructions on Amazon**



1. Configure the discovered devices to match your specific needs. **You may want to rename** Function 1 to Spa Mode and Function 2 as Spa Lights as examples to match how you have configured the Pentair Easytouch Spa Side Switch Settings.
2. See example screens below:

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- a. Select Spa Function 1, then select the round nut icon in the top right portion of the screen.
- b. Then Select Edit Name
- c. Then type in the name you wish to use “Spa Mode’
- d. Continue to do this for any discovered device for which you want to change the name



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3.2 Creating automated routines

1. Set Spa Lights

To set automated routines for the devices you will create a routine. This will allow you to set automated times for the pool equipment to come on and off. You may want the Spa Lights to come on at 3am and go off at 11am. Create a routine for that devices.



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3.3 Smart Spa Remote PCB emulates Pentair 4 button spa remote

Configuring the Pentair Easytouch for Spa Side Remote(Smart Spa Remote PCB) Settings Menu: iS4 Spa-Side Remote Controller

You can specify any iS4 Spa-Side remote button to control different functions by assigning each button to a specific circuit. For example, you can use the iS4 Spa-Side remote to activate the spa circulation, and for operating three auxiliary pieces of equipment (such as heat enabled, lights, jet pump, heat boost, air blower, waterfall, etc.).

Assign iS4

Before configuring the iS4 Spa-Side remote controller assign names to the circuits. Settings , Circuit Names, see table below.

To assign iS4 Spa-Side buttons: Up/Down buttons: Select a circuit to one of the iS4 buttons. You can set up to four circuits (1/4, 2/4, 3/4, 4/4). Right button: Move to the circuit setting. Up/Down buttons: To configure the first button on the iS4 Spa-Side Remote, scroll through the circuit names and find the circuit that you would like to assign to the first button on the iS4. The generic circuits selections are: None, Spa, Pool, Aux 1-7, Feature 1-8 (EasyTouch 8), Aux 1-3, Feature 1-4 (EasyTouch 4), Aux Extra, Solar, Heat Boost and Heat Enable. Selecting “None” does not assign a circuit. “Aux Extra” is only available if the Solar output (J17) plug on the EasyTouch motherboard is not being used for solar equipment. Use the Solar button to switch the extra circuit on and off (see page 5). Note: The “Heat Boost” feature will switch on the heater for

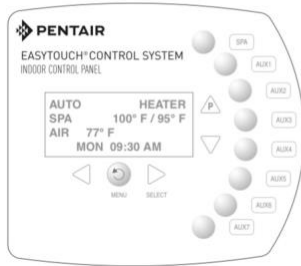
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seven minutes to increase the spa water temperature. Each time the spa Heat Boost button is pressed, the temperature will increase about 1° F. The temperature will not go beyond the 104° F limit. Right button: Assign the next circuit (2/4). Up/Down buttons: Select the first digit for the circuit number (1/4, 2/4, 3/4, 4/4) and repeat the procedure for the other three buttons. Press the Menu button to save the settings and to return to the Settings menu options. Press the button again to return to the main menu options or press again to return to the main screen.

Spa Side [Off/On] Enable or disable the iS4 Spa Side remote. This feature is useful for families with young children or when you go on vacation. It allows you to switch off the iS4 Spa Side remote at the control panel so that the remote cannot be used. Spa Side To enable or disable the iS4 Spa Side remote: Right button: Select On or Off to enable or disable the spa side remote. Press the Menu button to save the settings and to return to the main screen.

YouTube video on configuring IS4 on your pentair can be found at

<https://youtu.be/vUTQ-bPB9IU?si=N-IIViH9CUKLi8zN>



INSTALLATION AND USER'S GUIDE

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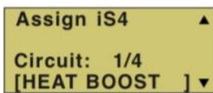
Settings Menu: iS4 Spa-Side Remote Controller

You can specify any iS4 Spa-Side remote button to control different functions by assigning each button to a specific circuit. For example, you can use the iS4 Spa-Side remote to activate the spa circulation and for operating auxiliary equipment such as heater, lights, jet pump, heat boost, air blower, waterfall, etc.). You can also use the “Pump Incrs” and “Pump Decrs” circuit to increase or decrease the pump speed for an IntelliFlo VF (GPM) or VS (RPM) pump. For example, if the “Pump Incrs” circuit is assigned to an iS4 button, each press of the button will increase the pump speed in specific speed increments as specified in the “iSx Pump Cntrl” menu setting (see page 41). Speed increments are set from 10 to 250 RPM (or 1 to 10 GPM, for the IntelliFlo VF).



Assign iS4

Before configuring the iS4 Spa-Side remote controller assign names to the circuits (see page 31). To assign iS4 Spa-Side buttons:



Note: To disable or enable the iS4 Spa-Side remote, see Settings Menu: Spa Side,” on page 48.

Up/Down buttons: Select a circuit to one of the iS4 buttons. You can set up to four circuits (1/4, 2/4, 3/4, 4/4).

Right button: Move to the circuit setting.

Up/Down buttons: To configure the first button on the iS4 Spa-Side Remote, scroll through the circuit names and find the circuit that you would like to assign to the first button on the iS4. The generic circuits are: **NONE, SPA, POOL, AUX 1-7 (EasyTouch 8), AUX 1-3 (EasyTouch 4), FEATURE 1-8, SOLAR (if selected in “Heat” menu), AUX EXTRA, HEAT BOOST, HEAT ENABLED, PUMP INCRS, PUMP DECRS.** AUX EXTRA is available if the Solar output (J17) plug on the EasyTouch motherboard is not being used for solar equipment. Use the Solar button to switch the extra circuit on and off (see page 5). Selecting “NONE” does not assign a circuit.

Note: The “HEAT BOOST” feature will switch on the heater for seven minutes to increase the spa water temperature. Each time the spa Heat Boost button is pressed, the temperature will increase about 1° F (-17° C). The temperature will not go beyond the 104° F (40° C) limit.

Right button: Assign the next circuit (2/4).

Up/Down buttons: Select the first digit for the circuit number (1/4, 2/4, 3/4, 4/4) and repeat the procedure for the other three buttons.

Press the **Menu** button to save the settings and to return to the Settings menu options. Press the button again to return to the main menu options or press again to return to the main screen.

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Spa Side [Off/On]

Enable or disable the iS4 Spa Side remote. This feature is useful for families with young children or when you go on vacation. It allows you to switch off the iS4 Spa Side remote at the control panel so that the remote cannot be used.

Spa Side

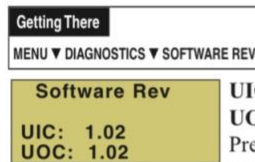
To enable or disable the iS4 Spa Side remote:



Right button: Select **On** or **Off** to enable or disable the spa side remote. Press the **Menu** button to save the settings and to return to the main screen.

Diagnostics Menu: Software Rev

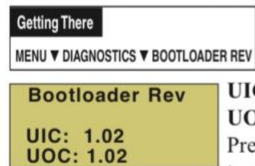
Displays the current software revision for the EasyTouch main control panel and the optional indoor control panel.



UIC: Displays the current software revision level for the indoor control panel.
UOC: Displays the current software revision level for the outdoor control panel.
 Press the **Menu** button to return to the Settings menu options. Press the button again to return to the main menu options or press again to return to the main screen.

Diagnostics Menu: Bootloader Rev

Displays the current bootloader revision for the indoor control panel and the main EasyTouch control panel.



UIC: Displays the current bootloader revision level for the indoor control panel.
UOC: Displays the current bootloader revision level for the outdoor control panel.
 Press the **Menu** button to return to the Settings menu options. Press the button again to return to the main menu options or press again to return to the main screen.

EasyTouch Menus

MAIN SCREEN	
FEATURE CIR	FEATURE 1-8 (OFF) EASYTOUCH 8 (1-8) - EASYTOUCH 4 (1-4) USE FEATURE CIRCUITS TO CONTROL PUMP SPEEDS AND VALVES.
LIGHTS	MODES (LIGHT SHOWS, HOLD, RECALL, COLOR SWIM, COLOR SET) COLORS (5 FIXED COLORS, HOLD, RECALL, COLOR SWIM, COLOR SET) ALL ON (SWITCH ALL LIGHTS ON) ALL OFF (SWITCH ALL LIGHTS OFF) SYNC (SYNCHRONIZE COLORED LIGHTS) CONFIG (SETUP EIGHT LIGHT POSITIONS)
HEAT	POOL TEMP/SEC TEMP (40° F - 106° F) OR (4° C - 41° C) HEAT (OFF/HEATER/SOLAR/SOLAR PRF) - SOLAR/SOLAR PRF MUST BE ENABLED IN "SOLAR" MENU TO DISPLAY.
	SPA TEMP/SEC TEMP (40° F - 106° F) OR (4° C - 41° C) HEAT (OFF/HEATER/SOLAR/SOLAR PRF) - "SOLAR/SOLAR PRF" MUST BE ENABLED IN "SOLAR" MENU TO DISPLAY.
DELAY CANCEL	(DELAYED CANCELLED) PRESS RIGHT BUTTON TO ACTIVATE
SCHEDULES	SPA 0 POOL 0 AUX 1 0 AUX 2 0 AUX 3 0 AUX 4 0 AUX 5 0 AUX 6 0 AUX 7 0 FEATURE 1-8 0 AUX EXTRA 0
EASYTOUCH 4	HS TEMP (SPA) / LO-TEMP (POOL) FOR SINGLE BODY SYSTEM (SEE SETTINGS MENU, CIRCUIT NAMES) MODE: SCHEDULE 0800A - 0500P (12:00 AM - 11:59 PM -12 HOURS) S M T W T F S (DAYS OF THE WEEK)
EASYTOUCH 8	MODE: EGG TIMER TIME: 12:00 (00:00 - 23:59) / DON'T STOP MODE: ONCE ONLY 0800A (12:00 AM - 11:59 PM -12 HOURS) S M T W T F S (SELECT DAY OF THE WEEK TO RUN PROGRAM) MODE: NEW / DELETE / NONE
SETTINGS	FEATURE 1 - 8 EASYTOUCH 8 (1-8) - EASYTOUCH 4 (1-4) AUX EXTRA: AUXILIARY OUTPUT (USE DOWN ARROW/BUTTON TO SWITCH ON/OFF). ONLY AVAILABLE IF SOLAR PLUG (J17) IS NOT BEING USED FOR SOLAR EQUIPMENT.
	CLOCK DATE & TIME 12 - (MONTH/DAY/YEAR) - (DAY/HOUR/MINUTES/AM/PM) DATE & TIME 22 - DAYLIGHT SAVING: (AUTO/MANUAL) CLOCK ADJUST 0000 (0 TO 300) (-300 TO -5) IN 5 SECOND INCREMENTS
	(OPTIONAL) PUMP #1 - PUMP TYPE (VF, VS, NONE) VF: FLOW (GPM), FILTERING, PRIMING, BACKWASH, VACUUM, STATUS PUMP #2 - PUMP TYPE (VF, VS, NONE) VS: SPEEDS (RPM), PRIMING, STATUS
	INTELLICHLOR (OPTIONAL) INTELLICHLOR 1/2 - ENABLE (NO/YES) - LEVEL (0% - 100%) INTELLICHLOR 2/2 - ENABLE (NO/YES) - LEVEL (0% - 100%) SUPERCHLOR (ON/OFF) RUN HOURS (0-72)
	THERMALFLO (OPTIONAL) SETTINGS: ENABLE, DISABLE (NO/YES) - (HEATING, COOLING) - STATUS
	CIRCUIT NAMES CIRCUIT NAMES (1-18 for ET 8) - (SPA, POOL, AUX 1 - 7, FEATURE 1-8, AUX EXTRA) - (1-9 for ET4) - (SPA, POOL, AUX 1 - 3, FEATURE 1-4) CIRCUIT: FOR COMPLETE LIST OF CIRCUIT NAMES (SEE "CIRCUIT NAMES")
	CIRCUIT FUNC CIRCUIT: (SPA (MASTER SPA), POOL (MASTER POOL), AUX 1-7 (AUX 1-3), FEATURE 1-8, AUX EXTRA - FUNCTIONS: GENERIC, MASTER SPA, MASTER POOL, MBTR CLEANER, LIGHT, SAM LIGHT, BAL LIGHT, PHOTON GENERATOR, COLOR WHEEL, SPILLWAY, FLOOR CLEANER, INTELLIBRITE) FREEZE: NO/YES
	CUSTOM NAMES CSTM NAME 1/10 (ASSIGN UP TO 10 CUSTOM NAMES) (USERNAME-01...10) (UP TO 11 ALPHANUMERIC CHARACTERS)
	VALVES A: (NONE, SPA, POOL, AUX 1 - 3 (ET 4) - SPA, POOL, AUX 1 - 7 (ET 8), FEATURE 1-8, AUX EXTRA, HEATER) - (USED SOLAR IF SOLAR IS ENABLED) B: (NONE, SPA, POOL, AUX 1 - 3 (ET 4) - SPA, POOL, AUX 1 - 7 (ET 8), FEATURE 1-8, AUX EXTRA, HEATER)
	2-SPEED PMP CIRCUIT (NONE, SPA, POOL, AUX 1 - 3 (ET 4) - SPA, POOL, AUX 1 - 7 (ET 8), FEATURE 1-8, AUX EXTRA, HEATER, POOL HEATER, SPA HEATER, FREEZE)
	SOLAR SOLAR 1/2 - ENABLE (YES/NO) - HEAT PUMP (YES/NO) - SOLAR 2/2 (TEMPERATURE DIFFERENCE) - START (3'-9") - RUN (2'-5")
	DELAYS COOL DOWN (YES/NO) - VALVES (YES/NO)
	F / C FAHRENHEIT / CELSIUS
	IS4 ASSIGN CIRCUITS 1/4 CIRCUIT - (NONE, SPA, POOL, AUX 1 - AUX 7 (ET 8), AUX 1 - AUX 3 (ET 4), FEATURE 1-8, AUX EXTRA, HEAT BOOST, HEAT ENABLE)
	IS10 TOP ROW (1/5), BOTTOM ROW (1/5) ASSIGN CIRCUITS 1/5 (NONE, SPA, POOL, AUX 1 - AUX 7 (ET 8), AUX 1 - AUX 3 (ET 4), FEATURE 1-8, AUX EXTRA, HEAT BOOST, HEAT ENABLE)
	QUICK TOUCH ASSIGN QT4 1/4 (ASSIGN UP TO 4 CIRCUITS) CIRCUIT - (NONE, SPA, POOL, AUX 1 - AUX 7 (ET 8), AUX 1 - AUX 3 (ET 4), FEATURE 1-8, AUX EXTRA, HEAT BOOST, HEAT ENABLE)
	MAN HEAT (OFF/ON) SWITCH MANUAL HEAT ON OR OFF WHEN SPA IS MANUALLY SWITCHED ON (USE RIGHT BUTTON SELECT ON/OFF)
	CALIBRATION WATER (FAHRENHEIT/CELSIUS) - AIR (FAHRENHEIT/CELSIUS) - SOLAR (FAHRENHEIT/CELSIUS) - SOLAR MUST BE ENABLED IN "HEAT" MENU TO DISPLAY
	ERASE EEPROM ERASE ALL (YES/NO) - ARE YOU SURE? (YES/NO)
	SET PASSWORD SET PASSWORD: (XXXX) 4 DIGITS - ENABLE / DISABLE (NO/YES)
	WIRELESS ADDR SET AN ADDRESS FOR EASYTOUCH WIRELESS CONTROL PANEL
SPA SIDE (OFF/ON)	ENABLE/DISABLE IS4 SPA-SIDE REMOTE

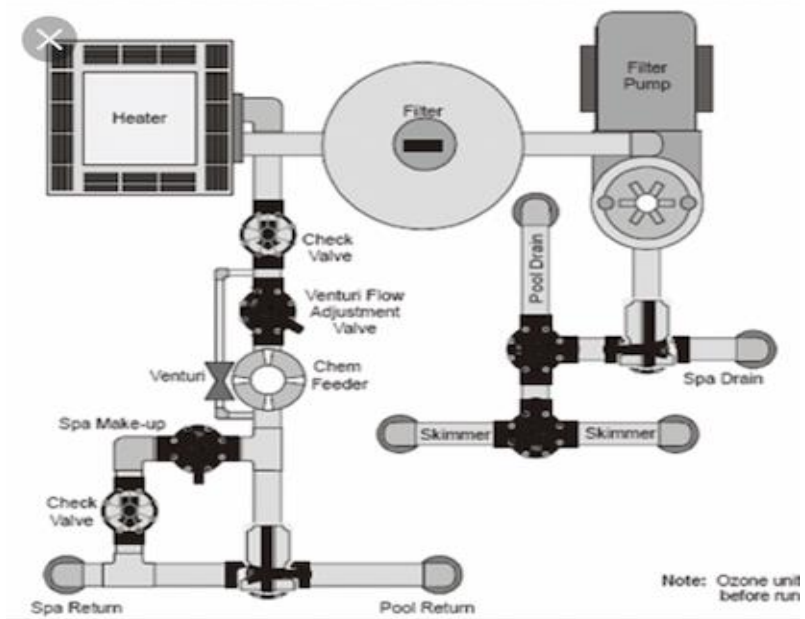
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The Smartspa remote circuit board emulates the IS4 spa side remote, you will need to make sure your Pentair Powercenter is configured to support the IS4 by following the steps above and check out the YouTube video <https://youtu.be/vUTQ-bPB9IU?si=N-IIViH9CUKLi8zN>

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Typical Pool Spa Configuration



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Example Picture of Compatible Pentair Easytouch controllers



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