

EasyTouch® 8 and 4 Pool and Spa Control System



IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS







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IMPORTANT SAFETY PRECAUTIONS



Important Notice:

Attention Installer: This manual contains important information about the installation, operation and safe use of this product. This information should be given to the owner and/or operator of this equipment.

WARNING - Before installing this product, read and follow all warning notices and instructions which are included. Failure to follow safety warnings and instructions can result in severe injury, death, or property damage. Call (800) 831-7133 for additional free copies of these instructions.

WARNING - Water temperature in excess of 100 degrees Fahrenheit may be hazardous to your health. Prolonged immersion in hot water may induce hyperthermia. Hyperthermia occurs when the internal temperature of the body reaches a level several degrees above normal body temperature of 98.6° F (37° C). The symptoms of hyperthermia include drowsiness, lethargy, dizziness, fainting, and an increase in the internal temperature of the body.

The effects of hyperthermia include: 1) Unawareness of impending danger. 2) Failure to perceive heat. 3) Failure to recognize the need to leave the spa. 4) Physical inability to exit the spa. 5) Fetal damage in pregnant women. 6) Unconsciousness resulting in danger of drowning.

WARNING - To reduce the risk of injury, do not permit children to use this product unless they are closely supervised at all times.

WARNING - The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia in hot tubs and spas.

WARNING - Control System is intended to control heaters with built-in high limit circuits **ONLY**. Failure to do so may cause property damage or personal injury.

WARNING - Do not use this product to control an automatic pool cover. Swimmers may become entrapped underneath the cover.

WARNING - For units intended for use in other than single-family dwellings, a clearly labeled emergency switch shall be provided as part of the installation. The switch shall be readily accessible to the occupants and shall be installed at least 10 feet (3.05 m) away, adjacent to, and within sight of, the unit.

CAUTION - Except for listed spa-side remote controls, install a minimum of five (5) feet from the inside wall of the pool and spa.

IMPORTANT SAFETY PRECAUTIONS (Continued)

General Installation Information

- All work must be performed by a licensed electrician, and must conform to all national, state, and local codes.
- 2. Install to provide drainage of compartment for electrical components.
- 3. If this system is used to control underwater lighting fixtures, a ground-fault circuit interrupter (GFCI) must be provided for these fixtures. Conductors on the load side of the ground-fault circuit-interrupter shall **not** occupy conduit, junction boxes or enclosures containing other conductors unless such conductors are also protected by a ground-fault circuit-interrupter. Refer to local codes for details.
- 4. A terminal bar stamped is located inside the supply terminal box. To reduce the risk of electric shock, this terminal must be connected to the grounding means provided in the electric supply service panel with a continuous copper wire equivalent in size to the circuit conductors supplying this equipment (no smaller than 12 AWG or 3.3 mm). The bonding lug(s) provided on this unit are intended to connect a minimum of one No. 8 AWG for US installation and two No. 6 AWG for Canadian installations solid copper conductor between this unit and any metal equipment, metal enclosures or electrical equipment, metal water pipe, or conduit within 5 feet (1.5 m) of the unit.
- 5. The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with Section 422-20 of the National Electrical Code, ANSI/NFPA 70.1987. The disconnecting means must be readily accessible to the tub occupant but installed at least 10 ft. (3.05 m) from the inside wall of the pool.
- **6.** Supply conductor must be sized to support all loads. Maximum supply conductor current must be 125 Amps at 125 VAC.

EasyTouch 8 or 4 System Kit Contents

The following items are included in the EasyTouch 8 or 4 System kit. If any items are missing, please contact Pentair Technical Support (see page vi).

- EasyTouch control panel (mounted in the load center)
- EasyTouch load center enclosure
- Two motorized valve actuators (CVA-24T P/N 263045) Not included with single-body system
- Water sensor with 25 foot cable, o-ring and hose clamp (P/N 520272)
- Air sensor with 25 foot cable (P/N 520272)
- EasyTouch 8 and EasyTouch 4 Pool and Spa Control System User's Guide (this manual)

Optional Equipment

- IntelliChlor Electronic Chlorine Generator Electrolytic Cell (model IC20 (P/N 520554) or IC40 (P/N 520555)
- IntelliChlor User's Guide (P/N 520589)

Accessory Equipment



EasyTouch 4 Indoor Control Panel (P/N 520548)



EasyTouch 8 Indoor Control Panel (P/N 520549)



EasyTouch Wireless Control Panel (8 circuit) (P/N 520547)



iS4 Spa-Side Remote Controller (P/N 520094)



QuickTouch Remote Controller (P/N 520148)

EasyTouch Accessories (continued)

EasyTouch Indoor Control Panel, 4 Circuits	(P/N 520548)
EasyTouch Indoor Control Panel, 8 Circuits	(P/N 520549)
EasyTouch Wireless Control Panel, 4 circuits	(P/N 520546)
EasyTouch Wireless Control Panel, 8 circuits	(P/N 520547)
iS4 Four-Function Spa-Side remote, 150 ft. cable	(P/N 520094)
Two-Speed Three HP Relay up to three additional valve actuators	(P/N 520198)
Three HP Power Relay	(P/N 520106)
QuickTouch four-function wireless remote kit with transceiver assembly	(P/N 520148)
IntelliChlor Acid Cleaning Kit	(P/N 520670)
IntelliChlor Spacer pass-through cell for new pool start-up	(P/N 520588)

Technical Support

Contact Technical Support at:

Sanford, North Carolina (8 A.M. to 5 P.M.)

Phone: (800) 831-7133

Fax: (919) 566-8920

Moorpark, California (8 A.M. to 5 P.M.)

Phone: (800) 831-7133 (Ext. 6312)

Fax: (805) 553-5515

Web sites: visit www.pentairpool.com and www.staritepool.com

EasyTouch System Overview

EasyTouch Pool and Spa Control System Overview

Welcome to the EasyTouch Pool and Spa Control system – The next generation in automatic control systems. The EasyTouch 8 or EasyTouch 4 system allows you to automatically control all of your spa and pool daily operations. Pool and spa service operations can be manually controlled from the EasyTouch outdoor control panel located at the pool equipment pad. Also available is the optional Indoor Control Panel and wireless control panel which allows automatic control of pool and spa operations from inside you home or outside around your pool area.

The EasyTouch 8 or EasyTouch 4 system can control high voltage (120 VAC / 240 VAC) equipment, automatic valve actuators, pumps, lighting, a conventional heater or a solar heating system and the optional IntelliChlor salt chlorine generator.

Operating EasyTouch

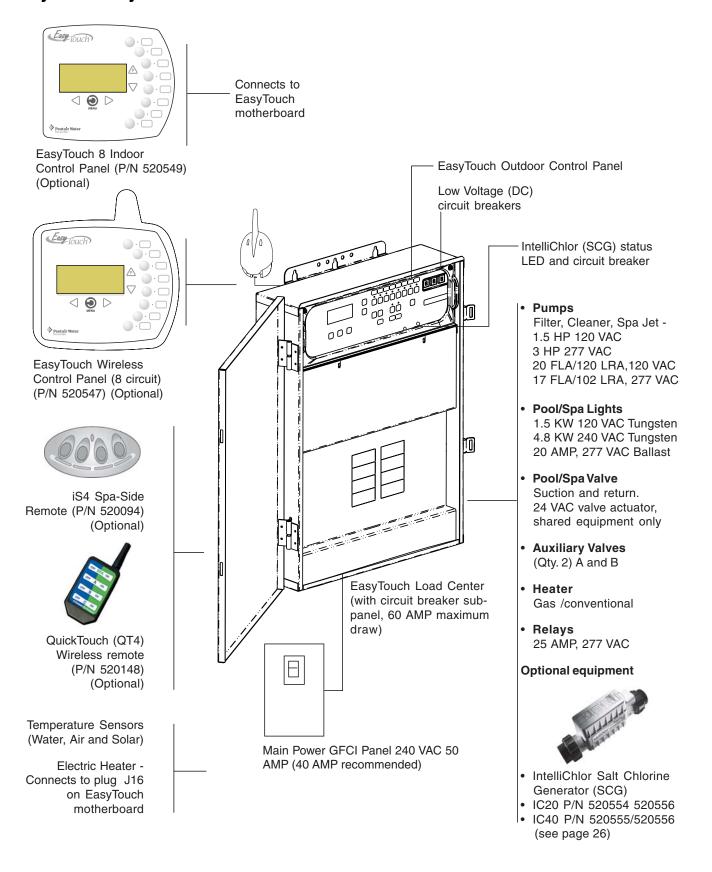
The EasyTouch system is designed to automatically control your pool and spa equipment, lights and other optional equipment. However, you can also manually control all EasyTouch system operations from the outdoor control panel. Using the "Mode" button, the system can be switched from "Auto" mode (normal operating mode) to "Service" mode for manual operation and service purposes. Using the outdoor control panel buttons you can manually override any automatic settings.

IntelliChlor™ Electronic Chlorine Generator

The optional IntelliChlor salt chlorination system allows the EasyTouch system to automatically control water sanitization by using a low concentration of salt (sodium chloride) in the pool and spa water. The IntelliChlor is enabled from the "IntelliChlor" Settings menu (see page 26). IntelliChlor automatically converts the salt into free chlorine which eliminate bacteria and algae in the pool and spa water. The chlorine will then revert back to sodium chloride after killing the bacteria. The outcome of this continuous cycle, practically eliminates the need to use sanitizing chemicals in the pool/spa water. When the pool and spa water is replenished due to backwashing or draining, more salt may need to be added to the pool/spa water.

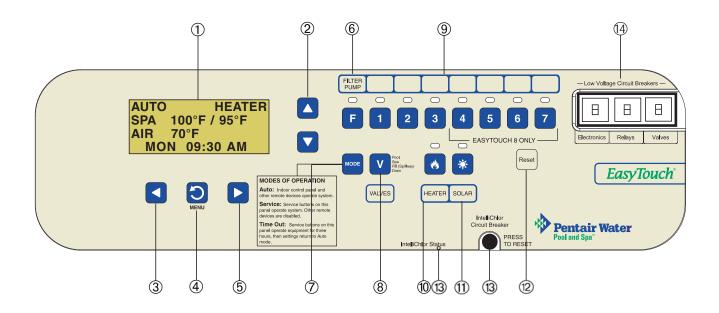
IntelliChlor model IC20 (P/N 520554/520556) is designed for swimming pools up to 20,000 U.S. gallons (75,000 liters). Model IC40 (P/N 520555/520556) is designed for swimming pools up to 40,000 U.S. gallons (151,000 liters). The pool chlorination amounts may vary depending on number of pool occupants, temperature, environment conditions, rainfall and other elements that might affect the pool water.

EasyTouch System Overview



EasyTouch Control Panel

You can fully automate your pool, spa, and lighting operations from the EasyTouch outdoor control panel or from the optional EasyTouch indoor control panel and EasyTouch wireless control panel. The EasyTouch menu features let you create customized schedules for your pool and spa equipment, heat temperatures, and chlorination settings to switch on and off at a set day and time. Scheduled automatic operations can be performed at either the outdoor control panel, the optional indoor control panel and wireless control panel. For maintenance and service purposes, the outdoor control panel button allows manual control of all pool and spa operations. For menu options, refer to "EasyTouch Menu Structure," on page 15. The following describes the outdoor control panel buttons, and LED indicators.



EasyTouch Outdoor Control Panel

EasyTouch Controls and Buttons

- ① **Liquid Crystal Display (LCD):** The main system display consists of a 16 x 4 alphanumeric character LCD with EL backlighting for easy viewing of the menu items and status messages. If necessary, press the Menu button twice to refresh the display.
- ② **Up/Down buttons:** Use the Up and Down buttons to scroll through the main menu items and to adjust or change settings. Use these buttons after pressing the Menu button to access the main menu items. While editing settings, press and hold the Up or Down button to fast forward or fast reverse through settings and values.
- 3 **Left button:** Use the Left button to scroll through sub-menu selections, setting and values. While editing settings, press and hold the Left button to fast reverse through settings and values.

Controls and buttons (Continued)





Menu/Back button: Use this button to access, save and exit from a current menu or sub-menu settings. Also, while in a menu or sub-menu items, use this button to go back to a previous menu level or item. If no menu activity is detected after five minutes, the main screen is displayed. All menu settings are permanently saved and retained in the control panel even after power is removed from the control panel. Control panel buttons are disabled while in the menu mode.





Right button: Use the Right button to select a sub-menu item for editing. After pressing the Menu button to access the main menu items, use the Right button to select the menu item and access the sub-menu items for adjustment. While editing a settings, press and hold the Right button to fast forward through settings and values.









Filter Pump (F) button/LED: Switches a single speed filter pump on and off in "Pool" or "Spa" mode. Press the Valves (V) button to toggle between "Pool" and "Spa" mode and rotate valves. If "Heater" is enabled in the "Heat" menu (see page 18), pressing the Filter Pump button will also enable the selected heat source (Heater/Solar LED on). The default time before the filter pump will switch off is 12 hours. This button operates in "Auto" or "Service" mode.

Single-Speed Filter Pump: If the pump is currently off, press the Filter Pump button (LED on) to switch the pump on. Press the Filter Pump button again to switch the pump off. However, if the heater is operating, and a delay is enabled for valves, this allows the heater to cool down (heater cool-down), then when you press the F button to switch off the pump, only the heater will turn off, then the filter pump will automatically switch off after 10 minutes to allow the heater to cool down. Pentair heaters do not require a cool down time. To override the "heater cool-down," press the Filter Pump button again to switch off the pump.

Two-Speed Filter Pump: Press the Filter Pump button (LED on) to switch the two-speed pump on in high speed. If you switch the pump off to low speed shortly after switching it to high speed, the filter pump will automatically remain in high speed for a few minutes before switching back to low speed to allow the pump to prime and establish normal water flow. In order to use the "2-Speed Pump" menu assignments (see page 32), the 2-Speed relay option must be installed in the EasyTouch Load Center.

Freeze Protection: This function protects the pool, plumbing, and equipment against freeze damage. If the outside air temperature sensor falls below 36° F, "Freeze Protection" is activated and the Filter Pump relay is switched on to circulate the pool water. To enable freeze protection for a circuit, see "Settings Menu: Circuit Types," on page 29.





Mode button: Use this button for service purposes to manually control the EasyTouch system. Pressing this button once activates "Service" mode, which allows AUX circuit buttons, Filter Pump, Valves, Heater and Solar buttons to be operated manually. Pressing the button a second time enables "Time Out" mode, which is similar to "Service" mode except that the system will automatically return to normal operation (Auto) after three hours. The current operating status is shown in the LCD display. The menu buttons, remote controllers, and menu scheduled operations are disabled (except for switching off equipment manually for emergencies) while the system is in manual mode.

Auto: In Auto (automatic) mode the system is in normal operating mode and is controlled by the main control panel LCD menu features.

Service: Use this mode to service pool equipment and to operate equipment manually.

Controls and buttons (Continued)







Valves (V) - (Pool/Spa/Fill (Spillway)/Drain) button: When in normal operating mode, the Valves (V) button is in "Pool" mode. In this mode the valves are automatically rotated so that only the pool water is circulated through the system and the filter pump is activated. Pressing this button once enables "Spa" mode and activates the filter pump to circulate only spa water through the system. "Fill/Spillway" and "Drain" mode can only be used while in "Service" mode (See Mode button for details). "Fill/Spillway" and "Drain" mode are used when cleaning the spa. Pressing the Valves (V) button again returns the system to "Pool" mode. Note that the filter pump will switch off while the pool/spa valves are rotating into position. The current operating mode is shown in the LCD display. Note: The Valves button (Pool, Spa, Fill (Spillway), Drain) button has no function in "Pool only" or "Spa only" systems. For an EasyTouch single body system, "Pool" and "Spa" modes are Lo-Temp (Pool) and Hi-Temp (Spa) temperature controls. For more information, see "Hi-Temp/Lo-Temp Controls for Single Body Systems," on page 27.







Aux 1 - 7 buttons/LEDs: Auxiliary output circuit buttons operate the pool and spa system valves, lights and other equipment. These auxiliary circuits are assigned in the "Circuit Type" menu, see page 28 for details. There are three auxiliary circuits (AUX 1- 3) on the EasyTouch 4 outdoor control panel and seven auxiliary circuits (AUX 1- 7) on EasyTouch 8 outdoor control panel. The Solar button can also be used for an "extra" auxiliary circuit if the Solar circuit is not being for solar equipment. Labels can be affixed next to each auxiliary button to identify the circuit function. Labels can be affixed over each auxiliary button to identify the circuit function. When an auxiliary circuit is activated or the button is pressed, the LED is on. Pressing an auxiliary circuit button will activate the corresponding circuit in either "Auto" or "Service" mode. When a circuit relay is switched on manually, it remains on until either you switch it off manually, or the next time the relay is scheduled to be switched off. For example, if the filter pump is scheduled to automatically run from 9:00 AM to 5:00 PM daily then the filter pump is switched on manually at 9:00 PM, it will run continuously until the next day at 6:00 PM then switch off. The schedule will then continue from then on.







Heater (Flame) button/LED: This button is only used in "Service" mode for manual heat on and off control. The Heater LED will be on if "Heater" is enabled in the "Heat" menu setting (see page 18). Switching the heater on automatically controls the output between a "forced off" state and a normal automatic thermostatic control operating state. The heater will continue heating the water until the heater's current highest set point temperature triggers the heater sensor (approximately 106° F). Note that the Heater button does not activate the pump. Do not activate the heater without running the pump. The heater will not run if water flow is not detected.







Solar (Sun) button/LED and (Aux Extra): In solar mode this button is only used in "Service" mode for manual solar heat on and off control. The Solar LED will be on if "Solar" is enabled in the "Heat" menu setting (see page 18). Solar must also be enabled in the "Solar" menu. Use the Solar button to manually switch the heater control output between a "forced off" state and a normal automatic thermostatic control operating state. When this button is pressed the solar relay is switched on to activate a booster pump if installed and activates valves to rotate to divert water through solar heating panels. If solar equipment is not being used, this button can also be used to switch the AUX EXTRA circuit on and off.





Reset button: Press this button to reinitialize the EasyTouch outdoor control panel.

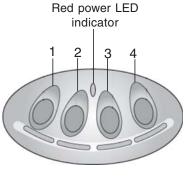
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IntelliChlor status LED and circuit breaker (SCG system only): When the LED is on, it indicates that the IntelliChlor cell is powered on. The circuit breaker opens in case the circuit is shorted or overloaded. Press to reset power to the IntelliChlor.

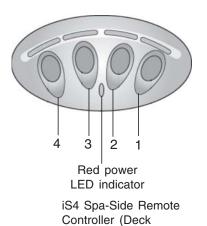
Low voltage circuit breakers: Three amp circuit breakers protect the low voltage system motherboard circuits, relays and valves.

iS4 Spa-Side Remote Controller (Optional)

The iS4 Spa-Side remote controller is a double-insulated, waterproof device that is UL (1563) listed for installation at the water's edge. Pentair recommends that the iS4 always be installed above the water line of the spa wall, or in the deck within arm's reach of a spa occupant. The iS4 provides remote switching of up to four control circuits from the spa location. It is typically used for activating spa circulation and any three auxiliary pieces of equipment (such as lights, jet pump, air blower, etc.). The red status LED indicator glows steady when in Spa mode and flashes while the spa is heating. For more about assigning circuits to the iS4 buttons, refer to "Settings Menu: iS4 Spa-Side Remote controller," on page 34. The iS4 two installation choices are shown below:



iS4 Spa-Side Remote Controller (Wall or tile mount)



mount)

QuickTouch QT4 Wireless Controller (Optional)

The QuickTouch QT4 wireless controller provides switching of up to four circuits. You can use the QT4 wireless controller to activate the spa circulation, and for operating three auxiliary pieces of equipment (such as lights, jet pump, air blower, waterfall, etc.). Each of the four functions on the QT4 wireless controller has an on and an off button. For more about assigning circuits to the QT4 buttons, refer to "Settings Menu: QuickTouch (QT4) Wireless Remote," on page 35.

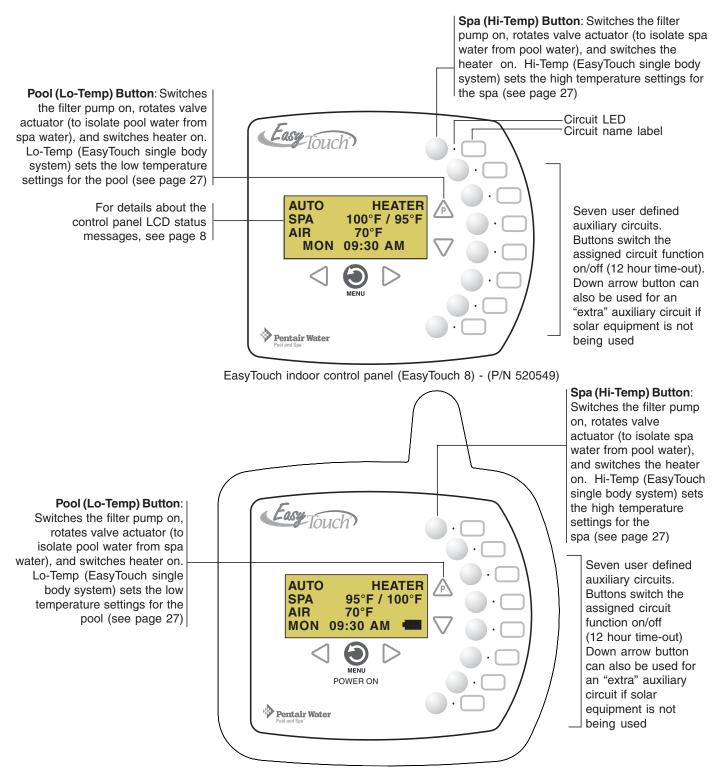
IMPORTANT: The QT4 wireless controller may be used with wet hands, but should never be submersed in water as this could damage the QT4. If accidental submersion occurs, dry the QT4 out by removing battery cover and removing battery. Position the QT4 so that water can drain out. Reassemble when the QT4 is completely dry.



QuickTouch (QT4) Wireless Controller (P/N 520148)

EasyTouch Indoor and Wireless Control Panel (Optional)

The EasyTouch Wireless or the Indoor Control Panel allows you to control your pool and spa daily operations from around your pool area or inside your home. Use the "P" (Pool) and "Spa" (Pool) buttons to heat and filter your pool and spa. The Indoor Control Panel connects to the EasyTouch motherboard in the load center. For more information refer to the EasyTouch Indoor Control Panel User's Guide (P/N 520616) and the EasyTouch Wireless Control Panel User's Guide (P/N 520688).



EasyTouch wireless control panel (EasyTouch 8) - (P/N 520547)

EasyTouch Outdoor Control Panel Operating Modes

The EasyTouch system can run in automatic mode or manual mode. Use the "Mode" button to switch the system from "Auto" mode (normal operating mode) to "Service" for manual operation and service purposes. Before operating EasyTouch, familiarize yourself with the LCD status messages and operating buttons.

AUTO (Automatic): The system is in normal operating mode. Scheduled programs will run automatically.

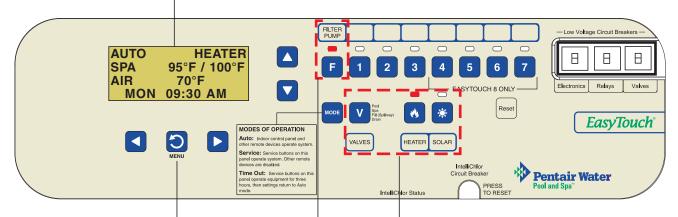
HEATER: Displays the heat source (**Off, Heater, Solar Prf., Solar**) as specified in the Heater menu settings (see page 18). When the Filter Pump (F) button is pressed in "Pool" or "Spa" mode, and heat source is enabled (Heater button LED on).

POOL(SPA): Indicates that the Valves (V) button is in "Pool" or "Spa" mode and the Filter Pump (F) button has been pressed to switch on the filter pump. If this display line is blank, it indicates no spa or pool function is active. For an EasyTouch single body system, Hi-Temp (Spa) / Lo-Temp (Pool) sets the temperature settings (see page 27)

95° F / 100° F: Displays the actual spa or pool water temperature (95° F) and the set point temperature (100° F) as set in the "Heater" menu.

AIR: Displays the actual outside air temperature (70° F) as read by the air sensor located near the EasyTouch Load Center.

Date and Time: Displays the EasyTouch system day and time as specified in the "Clock" menu settings (see page 24).



MENU / BACK button:

Access the EasyTouch menu. Also used to save and exit from a current menu or sub-menu settings. While in menu mode, all system control panel buttons are disabled. Press this button twice to refresh the display.

Filter Pump button:

For spa operations, press the **Valves (V)** button to rotate valves into "Spa" mode, then press the **Filter (F)** button to activate the filter pump. Press the Valves button to toggle to "Pool" mode. The Heater button LED will be on if a heat source is enabled in the Heat menu.

Valves (V) button: When in normal operating mode, the system is in "Pool" mode so that only the pool water is circulated through the system. Press the Valves button to enable "Spa" mode and to rotate valves and activate the Filter pump (Filter Pump LED on) automatically so that only the spa water is circulated through the system. Note that the filter pump will switch off while the pool/spa valves are rotating into position. "Fill/Spillway" and "Drain" modes are used only in "Service" mode.

Quick Start Spa and Pool Operations

The following describes how to run some of the general day-to-day spa and pool operations.

Heat your spa or pool



First enable the heat source (see "Adjust your spa heat settings" below) then press the Valves (V) button to enable "Spa" mode, and press the Filter Pump button to activate the filter pump. When in normal operating mode, the Valves (V) button is in "Pool" mode which turns valves and activates the filter pump automatically so that only the pool water is circulated through the system. Press the button to enable "Spa" mode and activate the Filter pump to circulate only spa water through the system. In the main screen shown on left, 95°F is the current temperature and 100° F is set point temperature. By default, the setting "Man Heat' is set to "On" (see page 36) which allows the spa to begin to heat whenever it is manually switched on.

From the Indoor or wireless control panel (option): First enable the heat source in the Heat menu (see "Heat Menu," on page 18). Press the **Spa** button (top button) to switch the filter pump on, rotate the valve actuator (to isolate spa water from pool water), and switch the heater on. Press the **Pool** button to switch the filter pump on, rotate the valve actuator (to isolate pool water from spa water), and switch the heater on. For Pool and Spa button location, see page 7.

Adjust your spa or pool heat settings

From the "Heat" menu (Menu > Heat > Spa Temp/Src/Pool Temp/Src) you can select the heat source and set the water temperature. The spa or pool water will heat to the settings specified. The EasyTouch system allows for solar and conventional heaters. The EasyTouch will use the heating source that is selected. The heat source selections are:

- **OFF** No heating even though pump and other circuits may be operating.
- **HEATER** Gas heater only.
- **SOLAR ONLY** Solar heating system to be the only heat source. In order to display "Solar Only" as a heat option in the "Heat" menu, you must first enable solar in the **Settings** > **Solar** menu, (see page 32).
- **SOLAR PREF.** (Solar Preferred) Used if solar and gas heating are combined and you want to use solar heating only when it is most effective. In order to display "Solar Preferred" as a heat option in the "Heat" menu, you must first enable solar in the **Settings** > **Solar** menu (see page 32).

To set the spa temperature set point and select the heat source:





Right button: Select spa temperature and heat source.

Up/Down button: Adjust the spa water temperature.

(from 40° F to 106° F or 4° C to 41° C)

Right or Left button: Move to Heat source options.

Up/Down: Set the Heat option: Off, Heater, Solar, or Solar Preferred.

Press the **Back** button to save the settings and to return to the Heat menu or press the button again to return to the main screen.

Note: Select "Pool Temp/Src" to adjust your pool temperature.

Switch on lights manually

From the Lights screen you can manually switch all lights on or off, and synchronize colored lights. Up to 12 lights can be controlled. For more information about setting up lights, refer to "Lights Menu" on page 17.



To manually switch on all lights:

Setup Lights ▲

Mode: All Off

▲ Up/Down button: Select: All off, All on, or Sync. The Sync feature allows a combination of up to 12 SAm, SAL, or FIBERworks lights to synchronize their colors before switching the lights on.

Press the **Back** button to save the settings and to return to the main menu items or press the button again to return to the main screen.

Using the Once Only timer feature

The Schedules "Once Only" timer feature enables you to automatically switch equipment on for one time. This feature allows you to program a circuit to turn on at a particular time on a onetime basis. For example, if you wanted the spa to be heated when you arrive home, you could program the heater to switch on at a specific time and after you have finished using the spa you can switch the heater off manually. After the program has run, it is automatically erased. Unlike using the regular "Schedule" program, the "Once Only" program does not repeat. The circuit must be turned off manually or wait for the 12 hour automatic shut-off. However, you could also reset the 12 hour factory shut-off by entering an "Egg Timer" count down program to extend past the default 12 hours shut-off.

The following example describes how to set a "Once Only" program for the spa. The same steps apply when selecting the pool or any auxiliary circuit.

Getting There

MENU ▼ SCHEDULES ► SPA

Right button: Select the Spa circuit.

Right button: Select **Mode** if there are existing programs. Skip this step to create a new program.

Up/Down button: Select **New** to create a new program.

Right button: To create a new program and enter the "Mode" settings.

Up/Down button: 1/1 indicates that this circuit has one program. If there are existing programs assigned to this circuit, use these buttons to view and select the existing program settings.

Right button: To select the "Once Only" settings.

Right button: Move to start time settings.

Up/Down and Right buttons: Set the start hour (A/P) and minutes. A (AM) and P (PM) time is set when setting the start hour.

Right button: Move to day of the week to run the program.

Right button: Select which day to run the program then press the **Up/Down button** to enable the bar on top of the letter. A bar on top of the letter indicates the day selected to run the program.



Schedule start and stop times for equipment

You can set timers (schedules) to automatically run equipment like pool filtration or lights. Any EasyTouch circuit can be set to switch on and off on every or any day of the week. Up to 12 total programs may be created for all circuits combined.

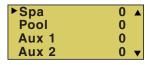
Program your Spa or Pool

You can use the "Schedule" feature to set the time and day(s) when to switch the filter pump on and rotate the pool/spa valves into the "Pool" or "Spa" position. The heater will automatically heat the pool or spa water up to the set point temperature as set in the "Heat" menu (see page 18). If the pool has a separate jet pump or blower controlled by AUX 1 and/or AUX 2, these need to be scheduled separately.

Schedules

To create a schedule for your spa or pool:





Spa 0/0 ▲ Mode: None (New) **Right button:** Select the **Spa** circuit. The generic circuit names are: Spa, Pool, Aux1-7 (EasyTouch 8), Aux 1-3 (EasyTouch 4), and Aux Extra "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).

Right button: Select **Mode** if there are existing programs. Skip this step to create a new program.

Spa 1/1 ▲
Mode: Schedule
08:00A - 05:00P
s m t w t f s ▼

Up/Down button: Select **New** to create a new program.

Right button: To create a new program and enter the "Mode" settings.

Up/Down button: 1/1 indicates that this circuit has one program. If there are existing programs assigned to this circuit, use these buttons to view and select the existing program settings.

Right button: To select the "Schedule" settings.

Right button: Move to start and stop time settings.

Up/Down and Right buttons: Set start and stop hour (A/P), minutes.

The A (AM) and P (PM) time is set when setting the start and stop hour.

Right button: Move to days of the week to run the program.

Right and Up/Down buttons: By default the program is set to run all the days of the week. If you wish to edit which days to run the program, select the day of the week, then press the **Up/Down** button to remove the bar from the top of the letter. A bar on top of the letter indicates the day selected to run the program.

Setting the Egg Timer Feature

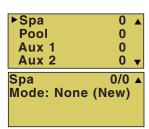
The "Egg Timer" feature lets you manually switch on equipment program the system to automatically switch off after a specified time. You can set this timer feature for other equipment such as lighting, spa, or spa jets. Equipment can be set to be on for one minute to 24 hours. An Egg Timer program is factory set to switch off after 12 hours. You also have the option to use the "Don't Stop" feature to run a circuit continuously until manually switched off.

Please note that in the event of a power failure, the Egg Timer feature will not switch the circuit back on. Use the "Service" mode to turn the equipment back on. Refer to "Mode button," page 4 for details.

Note: When running the filter pump continuously during a new pool start up, it is recommended to use the "Service" mode, which will automatically restart the filter pump in the event of a power failure.

To set the Egg Timer feature:





Right button: Select the **Spa** circuit. The generic circuit names are: Spa, Pool, Aux1-7 (EasyTouch 8), Aux 1-3 (EasyTouch 4), and Aux Extra "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).

Right button: Select **Mode** if there are existing programs. Skip this step to create a new program.

Spa 1/1 ▲ Mode: Egg Timer Time: 05:00 **Up/Down button:** Select **New** to create a new program.

Right button: To create a new program and enter the "Mode" settings.

Up/Down button: 1/1 indicates that this circuit has one program. You create a total of 12 programs. If there are existing programs assigned to this circuit, use these buttons to view and select the existing program settings.

Right button: To select the "Egg Timer" settings.

Right button: Move to the time settings.

Up/Down and Right buttons: Set the hour and minutes for the program to run. The count down time can be set from 00:01 to 23:59 and Don't Stop. The "Don't Stop" feature allows the circuit to run continuously until manually switched off.

Setting up EasyTouch

Setting up the System for the First Time

Use the following steps if you are setting up the EasyTouch system for the first time.

Note: The following setup steps assume that the EasyTouch Load Center is installed at the equipment pad and ready for operation. For EasyTouch Load Center installation instructions, refer to the EasyTouch 8 and 4 Load Center Installation Guide (P/N 520583).

The recommended first time installation steps for the EasyTouch system are:

1. Set the system date and time (page 24)

Set the current date and time.

2. Assign circuit names (pages 27)

Assign the generic default circuit names for output auxiliary equipment. Rename (if necessary) and assign circuit names to the auxiliary (AUX 1, AUX 2) connections. Note the factory set auxiliary names correspond to the plug-in location of the relay on the EasyTouch motherboard. Assign circuit names from the available of circuit names. There are nearly 100 circuit names available (see page 28 for the complete list).

3. Creating custom names for auxiliary circuits (page 31)

If you cannot find a circuit name that fits your application you can create up to 10 additional customized names that can be created before assigning circuit names.

4. Assign a circuit type to a circuit name (Page 29)

Assign "Circuit Types" (functions) to circuits. From the Circuit Type menu, you can assign special logic to a circuit by selecting one of the available circuit types. For the complete list of Circuit Types, see page 30. If an auxiliary circuit (AUX) is assigned GENERIC (simple ON/OFF when the button is pushed) then nothing needs to be done.

5. Configure valve actuators (controlled by AUX circuit) (page 31)

The EasyTouch system can drive two auxiliary valve actuators for applications such as solar heating and water features. Assign which circuits that will activate valves A and B. Auxiliary valve actuators can be controlled by any AUX circuit. Valve A is automatically assigned to solar if "Solar" is enabled in the "Solar" menu.

6. Set up optional equipment, solar, two-speed pump (page 31 and 32)

Set up additional equipment such as solar, 2-speed pump, and optional equipment if required. Set up the control panel to operate with the optional IntelliChlor chlorine generator (see page 26). To configure EasyTouch for special equipment:

- Is solar heating available? Is solar being used for a heat pump?
- What circuits will turn 2-Speed pumps to High Speed?
- Cool-down cycle for the heater Lets you set circuits that switch the filter pump to high speed.
- Do you want to delay turning off the filter pump for 10 minutes when the heater is turned off?
- Do you want the spa to heat whenever the Spa button is pressed?

7. Configuring the heater system options (page 18)

Set the type of heat source being used (Heater, Solar, Solar Preferred).

8. Configure the iS4 spa-side remote, QuickTouch wireless remote buttons (page 34 and 35)

Assign four circuits to the iS4 and/or QuickTouch remote buttons. Once you have checked that all buttons operate properly, place labels on remote buttons.

9. Set the delays feature (page 33)

Enable the one time "delay" feature for the heater, 2-speed pump, and automatic pool cleaner.

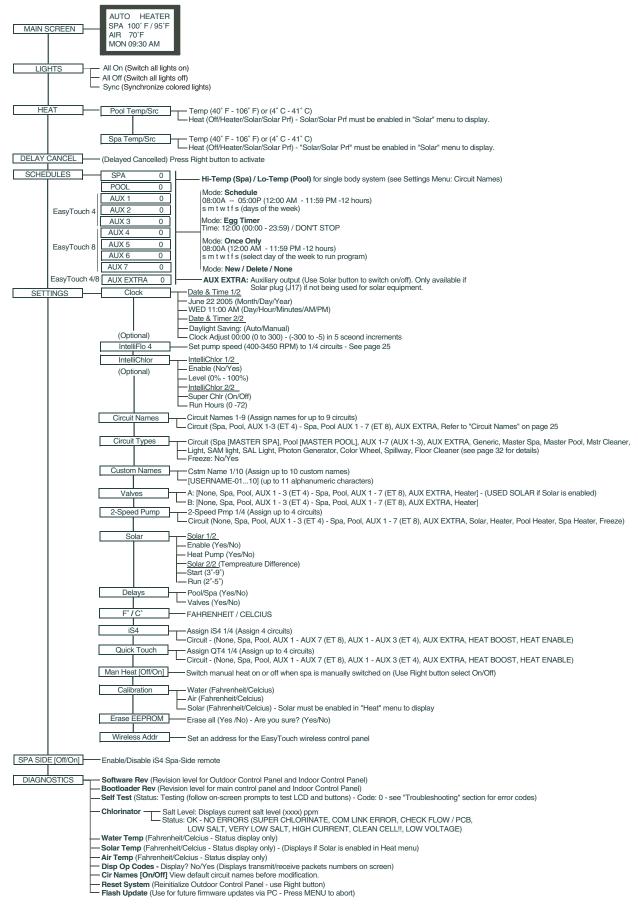
10. Schedule on/off times for circuit (page 20 - 23)

Set times for automatic circuit activation. Up to 12 total programs can be created for all circuits combined. One circuit can have up to a maximum of 9 programs (9/9), which leaves 3 programs that can be used by one circuit or three separate circuits for a total of 12 programs. All user created programs are active all the time; so check that there are not conflicting automated times.

11. Setup the lighting settings (page 17)

From the lighting menu you can enable special control of your pool and yard lighting, such as rotating colored lights, and synchronized colored lights.

EasyTouch Menu Structure



EasyTouch Menus

Use the EasyTouch control panel menus to schedule when to heat and filter your pool and spa automatically. Lights can also be switch on and off. The main screen shows the pool (or spa), temperatures and the system day and time. The main screen is automatically displayed if there is no menu control panel activity for five minutes. The "Settings" and "Schedule" menus are typically used most often for daily spa and pool operations. The "Settings" menu is used by the pool installer to setup installed equipment which is connected to each output relay (filter pump, auxiliary relays, heater, valves, lights, etc.). For EasyTouch equipment installation instructions, see the EasyTouch Installation Guide (P/N 520584).

Main Screen

AUTO	HEATER	'
SPA	95°F / 100°F	
AIR	70°F	
MON	09:30 AM	
AUTO		
AUIU		
AIR	70°F	
MON	09:30 AM	

The main screen shows the mode of operation (AUTO/SERVICE), the heat source being used. The spa (or pool) actual water temperature (95° F) and the current heater set point temperature (100° F) are displayed. The current air temperature is also displayed in either Fahrenheit or Celsius. If the second display line is blank and the heat source is not displayed, there is no spa or pool function currently active. If the IntelliChlor salt chlorinator generator option is installed, pool and spa sanitizer settings, and salt level is shown in the Diagnostics, "Chlorinator," settings on page 40.

Main Screen Description

AUTO: EasyTouch is in normal (automatic) operating mode.

HEATER: The selected heat source as selected in the "Heat" menu (see page 18). The heat options are:

- **OFF** No heating even though pump and other circuits may be operating.
- **HEATER** Gas heater only.
- **SOLAR ONLY** Solar heating system to be the only heat source. In order to display "Solar Pref." on the main screen, you must first enable solar in the "Solar" menu (see page 32).
- **SOLAR PREF.** (Solar Preferred) For when solar and gas heating are combined, and you want to use solar heating only when it is most effective. In order to display "Solar Pref." on the main screen, you must first enable solar in the "Solar" menu (see page 32).

SPA: "SPA" is displayed after the **Valves** (**V**) button is pressed to set in "spa" mode then the **Filter** (**F**) button is pressed to switch the filter pump on, rotate the valve actuator (to isolate spa water from pool water), and switch the heater on (if enabled in the "Heat" menu). Pressing the **Valves** (**V**) button alternates between "Pool" and "Spa" mode. The temperature unit displayed on the left side is the actual water temperature (95° F) and the set point temperature (100° F) as set in the "Heat" menu is displayed on the right side. Degree units are displayed in either Fahrenheit or Celsius (see page 34). If this display line is blank, it indicates no spa or pool function is currently active. For Hi-Temp controls (EasyTouch single body system), see page 27.

POOL: "POOL" is displayed after the **Filter** (**F**) button is pressed to switch the filter pump on, rotate the valve actuator to isolate the pool water from the spa water, and switch the heater on (if enabled in the "Heat" menu). Pressing the **Valves** (**V**) button alternates between "Pool" and "Spa" mode. The temperature unit displayed on the left side is the actual water temperature (95° F) and the set point temperature (100° F) as set in the "Heat" menu is displayed on the right side. Degree units are displayed in either Fahrenheit or Celsius (see page 32). If this display line is blank, it indicates no spa or pool function is currently active. For Lo-Temp controls (EasyTouch single body system), see page 27.

AIR: Displays the actual outside air temperature (70° F) as recorded by the air sensor located near the EasyTouch load center. Degree units are displayed in either Fahrenheit or Celsius (see page 34).

DAY and TIME: The current system day and time (AM/PM). See the "Clock" menu to set the system day and time (page 24).

Lights Menu

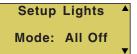
From the Lights screen you can manually switch all lights on or off, and synchronize colored lights. If you have at least two Pentair SAm and/or SAL, and/or FIBERworks lighting systems you can use the Sync feature to change the lighting settings. This feature require a separate auxiliary relay circuit for each light. Up to four lights can be assigned on each auxiliary circuit for a total of 12 lights that can be independently controlled from the Lights menu.

Make sure the AUX relay circuits which control your lighting have been assigned names. Then verify that SAm and/or SAL, and/or FIBERworks have been set up in "Circuit Types" as SAM or SAL lights. If FIBERworks lighting is incorporated, it also has to be set up as a "PHOTON GENERATOR" for the circuit controlling the light bulb, and COLOR WHEEL for the circuit controlling the color wheel. For more information about setting up lights, see "Settings Menu: Circuit Types," on page 29.



Lights

To configure lights:



Up/Down button: Select: All off, All on, or Sync.

Press the **Back** button save the settings and to return to the main menu items or press the button again to return to the main screen.

The lights options are:

All Off: Switch all lights off manually.

All On: Switch all lights on manually.

Sync: Causes all colored lights to synchronize their colors before switching on.

Heat Menu

Use the heat menu settings to specify the set point temperature and select the heat source for the pool and spa water. The water will begin to heat whenever the heater is manually switched on, (by pressing the Valves (V) button or the "Pool" or "Spa" button on the Indoor Control Panel), even if the heater is set to off. The spa will also begin to heat when switched on by the optional iS4 Spa-Side remote, or EasyTouch wireless remote. The EasyTouch system allows for solar and conventional heaters. The EasyTouch will use the heating source that is selected. The heat source selections are:

- **OFF** No heating even though pump and other circuits may be operating.
- **HEATER** Gas heater only. Use the Heater button to automatically switch the heater on which controls the output between a "forced off" state and a normal, automatic thermostatic control operating state. The heater will continue heating the water until the heater's current highest set point temperature triggers the heater sensor (approximately 106° F or 41° C). Note that the Heater button on the control panel does not activate the pump. Do not activate the heater without running the pump. The heater will not run if water flow is not detected.
- **SOLAR ONLY** Solar heating system to be the only heat source. In order to display "Solar Pref." on the main screen, you must first enable solar in the "Solar" menu (see page 32).
- **SOLAR PREF.** (Solar Preferred) Solar and gas heating systems are installed, and you want to use solar heating only when it is most effective. In order to display "Solar Pref." on the main screen, you must first enable solar in the "Solar" menu (see page 32). To set the spa temperature and select the heat source:

Pool Temp/Src



To set the pool temperature and select the heat source:



Right button: Select pool temperature and heater options.

Up/Down button: Set the pool temperature (from 40° F to 106° F).

Right or Left button: Move to Heater option.

Up/Down: Set Heater option: Off, Heater, Solar, or Solar Preferred.

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

Spa Temp/Src

To set the spa temperature and select the heat source:



Right button: Select spa temperature and heater options.

Up/Down button: Set the spa temperature (from 40° F to 106° F or 4° C to 41° C).

Right or Left button: Move to Heater option.

Up/Down: Set Heater option: Off, Heater, Solar, or Solar Preferred.

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

Note: For an EasyTouch single body system, "Pool" and "Spa" modes are Lo-Temp (Pool) and Hi-Temp (Spa) temperature controls. For more information, see "Hi-Temp/Lo-Temp Controls for Single Body Systems," on page 27.

Delay Cancel Menu

Use the Delay Cancel feature for service or testing purposes. For convenience, on a onetime basis, the Delay Cancel feature will cancel the following safety delays. Please note, generally there is no need to cancel any of the following delays except for servicing or testing the system.

- **Heater Cool-Down Delay Cancel:** Shuts Filter Pump off immediately.
- 2-Speed Filter Pump five-minute START on HIGH SPEED Delay Cancel: Shifts pump to low speed.
- **Automatic Pool Cleaner START Delay:** Starts Cleaner Pump immediately, without normal delay in which the filter pump first runs for 5 minutes.
- **Automatic Pool Cleaner SOLAR Delay:** Allows Cleaner Pump to run even though solar delay has shut it off for 5 minutes.

Some heaters require a cool-down cycle before being switched off. This can be setup in the menu to run the filter pump an additional ten minutes to dissipate residual heat built up inside the heater combustion chamber. The Delay Cancel feature is mainly for use by service technicians when it's necessary to shut the filter pump off immediately, and know the heater has not been running. Heaters manufactured by Pentair do not require this cool-down period and do not need the delay to be set up.

Note: For Information about assigning delays to the pool and spa valves, refer to "Settings Menu: Delays" on page 33.



Delay Cancel

To activate Delay Cancel:



▲ Up/Down button: Select Delay Cancel.

Right button: Use this button activate Delay Cancel for one time only. "Delay Cancelled" is displayed after pressing the Right button.

Press the Menu button to return to the main screen.

Schedules Menu

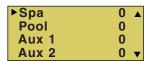
Use the "Schedules" menu to create programs that automatically run equipment like pool filtration or lights. Any circuit can be programmed to switch on and off at a specific time on every or any specific day of the week. The number of programs that can be created for circuits are as follows:

- Up to 12 total programs can be created for all circuits combined.
- One circuit can have up to a maximum of 9 programs (9/9), which leaves 3 programs that can be used by one circuit or three separate circuits for a total of 12 programs.

Using the Schedules menu

Use the "Schedules" menu to program operating schedules for the pool, spa and auxiliary circuits:





Choose the circuit to program

Up/Down button: Select the generic circuit name to program: Spa, Pool, Aux 1-8 (EasyTouch 8), Aux 1-4 (EasyTouch 4) and Aux Extra. "Aux Extra" is only available if the Solar output is not being used. See Solar button on page 5 for details. The current number of programs for each circuit is displayed opposite the circuit name. A circuit can have up to 9 programs (9/9). Three additional programs can be assigned to another circuit or three separate circuits for a maximum of 12 programs.



Create a new program

The current number of programs for each circuit is indicated opposite to the circuit name. 0/0 indicates no programs assigned to this circuit.

Right button: To move to the "Mode" selection.

Choose the type (Mode) of program to run

Right button: To move to the "Mode" selections.

Up/Down button: Select **New** to create a new program. Use "None" when a circuit has existing programs and you wish to exit the "Mode" selections without modifying the existing programs.

After selecting "New" the current program number (1/1) for this circuit is displayed.

Up/Down button: Choose the program to run: Schedule, Egg Timer, Once Only,

New, Delete, and **None**. If there are existing programs assigned to this circuit, use



these buttons to view and select the existing program settings.

Mode Selection: **Schedule:** Set start, stop times and the day(s) of the week to automatically switch pool/spa circuits on or off. Default run time for the "Schedule" feature is 8:00 AM to 5:00 PM. If you program the start and stop times the same the schedule is will run for 24 hours.

Egg Timer: A one time program that switches on a function at a specific time, and counts down the preset time to the switch off the function. After the "Egg Timer" schedule has finished, the system can be operated in manual mode. The "DON'T STOP" option allows a circuit to run continuously until its switched off manually.

Once Only: Schedule a circuit to switch on at a particular time on a onetime basis.

New: press the **Right** button to create a new program.

Delete: Select the program and press the **Right** button to delete it.

None: Press the **Right** button to exit the "Mode" selections without modifying the program.

Schedules Menu (Continued)

Program your Spa or Pool

You can use the "Schedule" feature to set the time and day(s) when to switch the filter pump on and rotate the pool or spa valves into the "Spa" or "Pool" position. The heater will automatically heat the spa or pool water up to the set point temperature as set in the "Heat" menu (see page 18). If the pool has a separate jet pump or blower controlled by AUX 1 and/or AUX 2, these need to be scheduled separately.

Schedules

You can create schedules to automatically run equipment like pool filtration or lights. Any circuit can be set to switch on and off on every or any specific day of the week. When a relay is switched on manually, it remains on until you either switch it off manually, or the next time the relay is scheduled to be switched off. For example, if the filter pump is scheduled to automatically run from 3:00 PM to 5:00 PM daily then the filter pump is switched on manually at 9:00 PM, it will run continuously for 12 hours until the next day at 6:00 PM then switch off. The programmed schedule will then continue from then on. Default run time for the "Schedule" feature is 12 hours. If you program the start and stop times the same the schedule will run for 24 hours if scheduled to run for one day. A spa or pool program can be overridden using the Filter (F) button and pool/spa Valves (V) button on the main control panel in the EasyTouch Load center. The system must be in "Service" manual mode to operate these buttons. *Note: The following example describes how to use the "Schedule" feature to program the spa circuit to switch the filter pump on and rotate the valves into the "Spa" position and switch the heater on. This example can also be used to program when to filter and heat your pool, and switch light or auxiliary circuits on or off.*

To create a schedule for your spa or pool:



Pool 0 Aux 1 0 Aux 2 0 ▼

Spa 0/0 ▲ Mode: None (New)



Right button: Select the **Spa** circuit. The generic circuit names are: Spa, Pool, Aux1-7 (EasyTouch 8), Aux 1-3 (EasyTouch 4), and Aux Extra "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).

Right button: Select **Mode** if there are existing programs. Skip this step to create a new program.

Up/Down button: Select **New** to create a new program.

Right button: To create a new program and enter the "Mode" settings.

Up/Down button: 1/1 indicates that this circuit has one program. If there are existing programs assigned to this circuit, use these buttons to view and select the existing program settings.

Right button: To select the "Schedule" settings.

Right button: Move to start and stop time settings.

Up/Down and Right buttons: Set start and stop hour (A/P), minutes.

The A (AM) and P (PM) time is set when setting the start and stop hour.

Right button: Move to days of the week to run the program.

Right and Up/Down buttons: By default the program is set to run all the days of the week. If you wish to edit which days to run the program, select the day of the week, then press the **Up/Down** button to remove the bar from the top of the letter. A bar on top of the letter indicates the day selected to run the program.

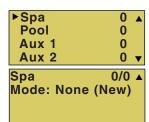
Using the Once Only feature

The "Once Only" feature allows you to program a circuit to switch on at a particular time and day on a onetime basis. A typical use for this feature is to have the spa and heater switch on before you get home from work for one evening. Unlike the regular "Schedule" timer, this feature does not repeat. After this event has finished, the program is automatically erased. The circuit must be switched off manually or wait for the 12 hour automatic shut off. If you wish to override the 12 hour default shut-off time you can extend the time by using the "Egg Timer" countdown feature (page 23).

Note: The following example describes how use the "Once Only" feature to program the spa circuit to switch the filter pump on and rotate the valves into the "Spa" position and switch the heater on for one time only. This example can also be used if you wanted to program when to filter and heat your pool, and switch light or auxiliary circuits on.

The set a "Once Only Timer" program for the spa:





Right button: Select the **Spa** circuit. The generic circuit names are: Spa, Pool, Aux1-7 (EasyTouch 8), Aux 1-3 (EasyTouch 4), and Aux Extra "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" auxiliary circuit on and off (see page 5).

Right button: Select **Mode** if there are existing programs. Skip this step to create a new program.

Up/Down button: Select New to create a new program.

Right button: To create a new program and enter the "Mode" settings.

Spa 1/1 ▲
Mode: Once Only
08:00A
s m t w t f s ▼

Up/Down button: 1/1 indicates that this circuit has one program. If there are existing programs assigned to this circuit, use these buttons to view and select the existing program settings.

Right button: To select the "Once Only" settings.

Right button: Move to start time settings.

Up/Down and Right buttons: Set the start hour (A/P) and minutes. A (AM) and P (PM) time is set when setting the start hour. Note: if the Start Time is set to an hour which has already passed, then the program will be executed the following day. Another day of the week may also be chosen. The stop time will be 12 hours later, or can be turned off manually. The 12-hour shut off can be changed to any length of time by entering another program using the "Egg Timer" program (page 23).

Right button: Move to day of the week to run the program.

Right button: Select which day to run the program then press the **Up/Down button** to enable the bar on top of the letter. A bar on top of the letter indicates the day selected to run the program.

Using the Egg Timer (countdown) Feature

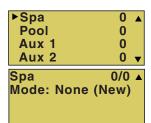
The "Egg Timer" feature allows you switch off a circuit automatically after a specified time. The time period can be anywhere from one minute to 24 hours or run continuously. The "Egg Timer" (countdown) feature is useful for switching off lighting and spa therapy jets. For example, a jet pump can be set to switch off in 15 minutes, even when switched on by the iS4 Spa-Side remote control or whenever you switch your spa on, you would like it to automatically switch it off in two hours. All Egg Timer programs are factory set to switch off after 12 hours. You also have the option to use the "Don't Stop" feature to run a circuit continuously until manually switched off.

Please note that in the event of a power failure, the "Egg Timer" feature will not switch the circuit back on. Use the "Service" mode to turn the equipment back on. Refer to "Mode button," page 4 for more information. For running the filter pump continuously during new pool start up, it is recommended to use the "Service" mode, which will automatically restart the filter pump in the event of a power failure.

The following example describes how to program the "Egg Timer" for the spa. The same applies when selecting the pool or any auxiliary circuit.

To set the Egg Timer feature:





Spa 1/1 ▲ Mode: Egg Timer Time: 05:00

Right button: Select the **Spa** circuit. The generic circuit names are: Spa, Pool, Aux1-7 (EasyTouch 8), Aux 1-3 (EasyTouch 4), and Aux Extra "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" auxiliary circuit on and off (see page 5).

Right button: Select **Mode** if there are existing programs. Skip this step to create a new program.

Up/Down button: Select **New** to create a new program.

Right button: To create a new program and enter the "Mode" settings.

Up/Down button: 1/1 indicates that this circuit has one program. If there are existing programs assigned to this circuit, use these buttons to view and select the existing program settings.

Right button: To select the "Egg Timer" settings.

Right button: Move to the time settings.

Up/Down and Right buttons: Set the hour and minutes for the program to run. The count down time can be set from 00:01 to 23:59 and Don't Stop. The "Don't Stop" feature allows the circuit to run continuously until manually switched off.

Settings Menu: Clock

Use the "Clock" menu to set the EasyTouch system date and time. The day, time and AM/PM is displayed on the main screen. The system clock settings are used for the EasyTouch system scheduled operations. The EasyTouch system clock will continue to run even if power is removed from the EasyTouch system at the load center.



Clock

To set the system date and time:



Right button: Move to the day setting.

Up/Down buttons: Set the day of the month.

Right button: Move to the year setting.

Up/Down buttons: Set the year.

Right button: Move to the next page settings (2/2).

Up/Down buttons: Set Daylight Savings to Auto or Manual. Auto keep track of the semi annual time changes. If you do not live in an area that observes daylight savings time, choose Manual.

Right button: Move to the clock adjustment setting. If the internal system clock loses time during the month, use this setting to set the number of seconds in five second increments per month to automatically adjust the clock to the correct time.

Up/Down buttons: Adjust the offset in five second increments.

Settings Menu: IntelliFlo 4

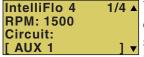
IntelliFlo 4 Variable Speed Pump

This feature allows you to assign a circuit to control the IntelliFlo 4 pump speed. The pump speed can be adjusted to run from 400 to 3450 RPM in increments of 10 RPM. For more information about the IntelliFlo pump, refer to the IntelliFlo 4 Installation and User's Guide (P/N 357269).

4 Spd Pump

To adjust the speed of the IntelliFlo 4 pump:





Up/Down buttons: Select the circuit number 1 of 4 (1/4). The default speed for each circuit correspond to the four speed buttons on the IntelliFlo control panel. The preset speed for each button is: Speed 1 button 750 RPM, Speed 2 button 1500 RPM, Speed 3 button 2350 RPM, and Speed 4 button 3110 RPM.

Right button: Move to RPM to change the pump speed.

Up/Down buttons: Set speed of the pump from 400 to 3450 RPM in increments of 10 RPM.

Right button: Move to the circuit names.

Up/Down buttons: Assign the circuit: None, Spa, Pool, Aux1-7 (EasyTouch 8), Aux 1-3 (EasyTouch 4), Aux Extra (only if Solar is not selected, see page 32), Heater, Pool Heater, Spa Heater, Freeze, and Hi-Speed. "Aux Extra" is only available if the Solar output (J17) plug on the EasyTouch motherboard is not being used for solar equipment.

Right button: Press the Up arrow button and go to the next circuit page settings (2/4) and repeat the previous steps.

When finished setting up the circuits, press the **Back** button to save the settings and to return to the Settings menu options. Press the button two times to return to the main screen.

IntelliFlo 4 external control

The EasyTouch system communicates with the IntelliFlo 4 pump via a two-wire RS-485 cable. For information about connecting the RS-485 communication cable from EasyTouch to the IntelliFlo pump, refer to the IntelliFlo 4 Installation and User's Guide (P/N 357269).

Settings Menu: IntelliChlor

The IntelliChlor electronic chlorination system must be connected to the EasyTouch system to use the following IntelliChlor settings. While in normal operating mode ("Pool," "Spa" mode or "Spa Fill (Spillway)," EasyTouch will control the chlorinator output level. When IntelliChlor is connected to the EasyTouch outdoor control panel, chlorination levels can only be changed from the outdoor control panel or the Indoor Control Panel. The amount of chlorine introduced into the pool is determined by the amount of salt in the water, water temperature, and the amount of time the pool operates in "Pool" mode. Note: While in "Freeze Protection" mode, IntelliChlor will not operate during the time that the filter pump is operating. For more information, refer to the IntelliChlor Electronic Chlorine Generator User's Guide (P/N 520589).

IntelliChlor

To setup the IntelliChlor system:



IntelliChlor 1/2▲
Enable: No
Level: 50%

IntelliChlor 2/2▲
Super Chlr: Off
Run Hours: 24

Right button: Move to Enable/Disable settings. (To select the second page settings, press the **Up/Down** button to change the first digit to **2**/2).

Up/Down buttons: Select **Yes** or **No** to enable or disable the IntelliChlor system.

Right button: Move to the "Level" settings.

Up/Down buttons: Set the chlorination output level for the pool/spa water from 0 to 100%. EasyTouch will determine the chlorinator output level when the system is operating in "Spa" or "Pool" mode. The amount of chlorine introduced into the pool/spa is determined by the amount of salt in the water, water temperature, and the amount of time the pool/spa operates in these modes mode.

Right button: Move to the next page settings (2/2).

Up/Down buttons: Select **2**/2.

Right button: Move the Super Chlorination settings.

Up/Down buttons: Set Super Chlorination **On** or **Off**. See note below about Super

Chlorination.

Right button: Move to "Run Hours" setting.

Up/Down buttons: Set the number of hours to run Super Chlorination. 24 hours is the default setting. Run hours can be set from 0 to 72 hours.

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.

Note: For IntelliChlor status messages, see "Diagnostics: Chlorinator" on page 40.

About Super Chlorination: The Super Chlorination feature is used to introduce large amounts of chlorine into the pool water if there has been heavy rain fall, many bathers in the pool, cloudy water conditions, etc. When Super Chlorination is enabled, the system will switch on the filter pump, set the pool/spa valves to the correct position, and set the IntelliChlor chlorine generator to maximum output. This process continues for 24 hours. At the end of the Super Chlorination process, the pool will return to normal operation. It is possible to manually stop the Super Chlorination process and switch off the filter pump using the Filter (F) button on the main control panel at the pool equipment pad. When the filter pump is switched on again using the Filter (F) button, the Super Chlorine process will resume for the duration of time left.

Settings Menu: Circuit Names

Labeling Circuit Buttons in the EasyTouch Load Center

EasyTouch is shipped from the factory with each output circuit identified with its generic name (e.g. AUX 1, AUX 2, etc.). These generic circuit auxiliary names can be assigned a new names which are more descriptive of the equipment being controlled. This makes it much easier to operate all of the equipment on your pool without having to memorize what each output controls.

Circuit name labels are also provided to be placed on top of each auxiliary control panel button. Use the written list of circuit names (buttons) you made while setting up the EasyTouch load center. Identify what you labeled circuit button 1, button 2 etc. The circuit names you assign should match the labels you put on the center buttons and the optional Indoor Control Panel buttons. Note that examples shown below use the factory set generic output names. Note that examples shown use the factory set generic output names (AUX 1), for your system you should change these generic names.

Circuit Names

To assign circuit names:





Up/Down buttons: Select the circuit number 1 of 10 (1/10). The generic circuits names are: Spa, Pool, Aux 1-7 (EasyTouch 8), Aux 1-3 (EasyTouch 4), Auxx (Aux Extra). The circuit number (1/10) corresponds to its assigned circuit name. This name can be changed to suite the function. "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" auxiliary circuit on and off (see page 5). **Right button:** Move to EasyTouch preset circuit names and user defined custom

Up/Down buttons: Scroll through the list of alphabetical programmed names. If you cannot find a name to match your circuit, you can create your own custom name (see page 31). Repeat for all the circuit buttons that you wish to assign names to. For a complete list of EasyTouch circuit names, see page 28.

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.

Note: After a generic circuit name is changed and saved, the new name is displayed in the menu settings. You can view the default generic circuit names in the menu settings before they were changed by enabling "Cir Names." Refer to "Diagnostics: Cir Names (Off)," on page 41.

Hi-Temp/Lo-Temp Controls for Single Body System

circuit names.

For an EasyTouch single body system, you have the option to control your pool and spa temperature settings using the Valves (V) button or the Spa (Hi-Temp) and Pool (Lo-Temp) button on the optional Indoor control Panel. Change the circuit name **SPA** to **HI-TEMP** and **POOL** to **LO-TEMP** so that the display shows the correct temperature controls for your single body system.

EasyTouch Circuit Names

AERATOR	NOT USED	Custom Circuit Names (11 characters maximum)
AIR BLOWER AUX 1	OZONATOR PATH LIGHTS	USERNAME-01
AUX 2	PATIO LTS	USERINAIVIE-UT
AUX 3 AUX 4	PERIMETER L	USERNAME-02
AUX 5	PG2000 POND LIGHT	USERNAME-03
AUX 6	POOL PUMP	USERNAME-04
AUX 7 AUX 8	POOL POOL HIGH	USERNAME-05
AUX 9	POOL LIGHT	USERINAIVIE-US
AUX 10 AUX EXTRA	POOL LOW POOL SAM	USERNAME-06
BACKWASH	POOL SAM 1	USERNAME-07
BACK LIGHT BBQ LIGHT	POOL SAM 2 POOL SAM 3	USERNAME-08
BEACH LIGHT BOOSTER PUMP	SECURITY LT	USERNAME-09
BUG LIGHT	SUG LIGHT SOLAR	USERNAME-10
CABANA LTS CHEM. FEEDER CHLORINATOR CLEANER COLOR WHEEL DECK LIGHT DRAIN LINE DRIVE LIGHT EDGE PUMP ENTRY LIGHT FAN FIBER OPTIC FIBER WORKS FILL LINE FLOOR CLNR FOGGER FOUNTAIN FOUNTAIN 1 FOUNTAIN 2 FOUNTAIN 3 FOUNTAINS FRONT LIGHT GARDEN LTS GAZEBO LTS HIGH SPEED HI-TEMP HOUSE LIGHT JETS LIGHTS LOW SPEED LO-TEMP MALIBU LTS MIST MUSIC	SPA SPA HIGH SPA LIGHT SPA LOW SPA SAL SPA SAM SPA WTRFLL SPILLWAY SPRINKLERS STREAM STATUE LT SWIM JETS WTR FEATURE WTR FEAT LT WATERFALL WATERFALL 2 WATERFALL 3 WHIRLPOOL WTRFL LGHT YARD LIGHT	

Settings Menu: Circuit Types

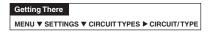
Assigning Circuit Types

From the "Circuit Types" menu you can assign special logic to the circuits. For example, when setting up an automatic pool cleaner pump, you would assign the circuit type MASTER CLEANER. With this "Cleaner" logic the cleaner pump would force the filter pump on, and the cleaner pump would start after a delay of five minutes. The cleaner pump would automatically shut off whenever the spa and/or solar is switched on.

Freeze Protection

Freeze protection switches on a circuit if the outside air temperature sensor detects the temperature is getting close to freezing (below 35° F). The system will switch on all circuits that have been assigned freeze protection, and runs the circuits for 15 minutes to stop the pipes from freezing. This is especially important if there is a pool and spa combination. If freeze protection is set to both the spa and pool circuits, the filter pump switches on and the pool and spa valves alternate every 15 minutes to keep the water moving in both the pool and spa. This process continues until the freeze condition is over.

Circuit Types



To assign a circuit type and freeze protection:

Circuit/Type:

[Spa]

[Master Spa]

Freeze: Yes/No

Up/Down buttons: Choose the circuit and assign it a function. The generic circuits names are: Spa [Master Spa], Pool [Master Pool], Aux 1-7 (EasyTouch 8), Aux 1-3 (EasyTouch 4), and Aux Extra. "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" auxiliary circuit on and off (see page 5).

Right button: Move to circuit type setting to select the type of logic needed for your circuit.

Up/Down buttons: Set the type of circuit to use. This is the circuit that you wish to assign the function logic to. For a complete list of preset circuit types, see "Preset Circuit Types," on page 29.

Right button: Move to Freeze Protection setting.

Up/Down buttons: Select **Yes** or **No** to assign freeze protection to this circuit. If "Yes" is selected, the circuit will switch on if the air temperature drops to 35° F. **Note:** for the POOL circuit the filter pump will have freeze protection. For the SPA circuit the filter pump will run and the pool/spa valves will switch between pool and spa at 15 minutes intervals throughout the freeze condition. For the MASTER CLEANER circuit freeze protection is generally not needed for pool cleaner pumps since they get water flow from the filter pump. Just make sure that POOL has freeze protection.

Press the **Back** 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.

Preset Circuit Types

Generic	No special Logic. Simple On/Off control of a circuit with all the programmable capabilities.
Master Spa	Works with automatic pool cleaner pumps or cleaner valve actuator. It does the following:
	- Forces the filter pump on 5 minutes before the cleaner pump switches on.
	- Switch the cleaner off when the spa is on.
	- Switch the cleaner off for 5 minutes when the solar heating begins.
Master Pool	Works with automatic pool cleaner pumps or cleaner valve actuator. It does the following:
	- Forces the filter pump on 5 minutes before the cleaner pump switches on.
	- Switch the cleaner off when the spa is on.
	- Switch the cleaner off for 5 minutes when the solar heating begins.
Master Cleaner	Works with automatic pool cleaner pumps or cleaner valve actuator. It does the following:
	- Forces the filter pump on 5 minutes before the cleaner pump switches on.
	- Switch the cleaner off when the spa is on.
	- Switch the cleaner off for 5 minutes when the solar heating begins.
Light	Allows special lighting features to work, such as ALL lights on or ALL lights off.
SAM Light	Activates special color lighting programs on other screens on the Indoor Control Panel when used with SAM pool lights. For example, you can have ALL lights on or ALL lights off.
SAL Light	Activates special color lighting programs on other screens on the Indoor Control Panel when used with SAL spa lights. For example, you can have ALL lights on or ALL lights off.
Photon Generator	Lets Pentair Fiberworks fiber optic bulb be operated by Lights menu features Sync, Rotate, ALL ON and ALL OFF when used with SAM and SAL lighting.
Color Wheel	Activates special color lighting programs on other screens on the Indoor Control Panel when used with Pentair Fiberworks. For example, you can have ALL lights on or ALL lights off.
Spillway	For pool/spa combinations where the spa is raised above the pool. This setting moves the return valve so that the filter pump pulls the water from the pool and returns it to the spa, creating a water fall effect. Automatic pool cleaners are turned off when this feature is turned on.
Floor Cleaner	This setting moves a 3-way valve every 20 minutes alternating flow between 2 cleaner system valves that feed the pop-up heads.

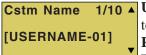
Settings Menu: Custom Names

There are nearly 100 circuit names available to choose from. If you cannot find one to fit your application you can create up to 10 custom names. Each name can be up to 11 alphanumeric characters. After a custom name is saved, it is then available for selection in the Schedules, 2-Speed Pump, iS4 and QuickTouch menus.



Custom Name

To assign a custom circuit name:



Cstm Name 1/10 \[Up/Down buttons: Select a custom circuit name number (1-10). You can create up to 10 custom circuit names.

Right button: Move to custom circuit name setting.

Up/Down/Right buttons: Enter the custom circuit name (11 characters maximum).

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.

Settings Menu: Valves

This feature lets you assign a circuit to Valve A or B. The EasyTouch system can drive two auxiliary valve actuators (A and B) for applications such as solar heating and water features. By assigning AUX circuits to control valve actuators, you can conserve auxiliary circuits for high voltage relays for controlling pumps and lights.

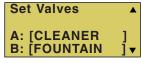
Valve A: Resides on the EasyTouch motherboard. If solar heating is setup and is not configured as a heat pump, then Valve A is dedicated for controlling the solar heating valve actuator. Solar is enabled in the "Solar" menu. The Valve A selection will display "USED SOLAR."

Valve B: Resides on the EasyTouch motherboard. Can be configured to be controlled by any circuit.



Valves

To assign a circuit to Valve A and Valve B:



▲ Up/Down buttons: Select a circuit to assign to Valve A. The generic circuit selections are: The generic circuits names are: None, Spa, Pool, Aux 1-7 (EasyTouch 8), Aux 1-3 (EasyTouch 4), Aux Extra and Heater. "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" auxiliary circuit on and off (see page 5).

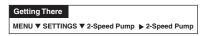
Right button: Move to Valve B setting.

Up/Down buttons: Select a circuit to assign to Valve B. The generic circuits names are: None, Spa, Pool, Aux 1-7 (EasyTouch 8), Aux 1-3 (EasyTouch 4), Aux Extra and Heater. "Aux Extra" is only available if the Solar output (J17) plug on the EasyTouch motherboard is not being used for solar equipment.

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.

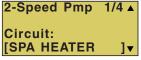
Settings Menu: 2-Speed Pump

Equipment circuits selected in this menu will automatically switch a two-speed filter pump to high speed when these circuits are on. If a two-speed pump is assigned to solar, a cleaner or a pump, when activated the pump will automatically run for five minutes in high speed then switch to low speed. For example, when on, the filter pump will switch to high speed whenever the JETS or CLEANER is on. There must be a two-speed relay installed in the EasyTouch Load Center in order for the "2-Speed Pump" menu settings to function.



2-Speed Pump

To configure a two-speed pump to a circuit:



2-Speed Pmp 1/4 Let **Up/Down buttons:** Select a circuit that will switch the filter pump to high speed. You can set up to four circuits to use a two-speed pump (1/4, 2/4, 3/4, 4/4).

Right button: Move to assign a circuit setting.

Up/Down buttons: Select the circuit to assign to a two-speed pump. The generic circuits names are: None, Spa, Pool, Aux 1-7 (EasyTouch 8), Aux 1-3 (EasyTouch 4), Aux Extra, Heater, Pool Heater, Spa Heater and Freeze. "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" auxiliary circuit on and off (see page 5).

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).

Right button: Move to circuit setting.

Up/Down buttons: Select the next circuit. When finished press the **Menu** button. 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.

Settings Menu: Solar

Use the solar settings to setup solar or configure solar as a heat pump:

Setting Up Solar Control: Ensure that the solar temperature sensor is installed.

About Installing Solar Heating: First, install the solar sensor at the collectors and connect to the EasyTouch load center. If "HEAT PUMP" is selected and is being used in place of a solar heating system, install Solar sensor near the EasyTouch Load Center. Connect the wires to the SOLAR screw terminals according to the wiring diagram on page 47. Plug the solar valve actuator cable into three-pin socket marked VLV A on the EasyTouch motherboard. If a solar booster pump is being installed, connect the pump to a power relay and plug a low voltage cable from relay into the two-pin socket marked SOLAR on the EasyTouch motherboard.

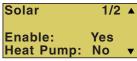
Note: If Solar is not selected (No), the EasyTouch menu selections display "AUX EXTRA" instead of "SOLAR." This allows the solar plug (J17) on the EasyTouch motherboard to be used an "extra" auxiliary output circuit. The Solar button is used to switch on and off the extra auxiliary circuit.

To access the Solar menu:



Solar

To enable a solar heater and set the temperature start and run time settings:



Up/Down buttons: Select Yes or No to enable solar (1/2). In order to display the solar selection as a heat source in the main screen, select Yes.

Right button: Move to the Heat Pump setting.

Up/Down buttons: Select **Yes** or **No** to enable solar as a heat pump. **Heat Pump Control instead of Solar:** Select Yes if a heat pump is being used in place of a solar heating system. If Solar is set to heat pump, Valve A is free for other circuits.



Right button: Select page 2 of 4 (2/4) to access the solar temperature differential start up and run settings.

Up/Down buttons:

Start: Set the temperature differential to start heating from 3° to 9°. For example, if "Start" is set to 3°, this ensures that the temperature has to deviate by 3° at least to the specified set point temperature (in the Heat menu, on page 18) before it switches on. Once the solar comes on it will start converging as it is heating. This ensures that it will not continually be switching on and off.

Run: Set the temperature differential to stop heating from 2° to 5° . This setting sets how close to the target set point temperature to switch off solar heat.

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.

Settings Menu: Delays

Setup which functions (pool/spa, and valves) to assign the delay feature. Delays can be assigned to the following equipment.

- Heater Cool-Down Delay Cancel: Shuts Filter Pump off immediately.
- 2-Speed Filter Pump five-minute START on HIGH SPEED Delay Cancel: Shifts pump to low speed.
- **Automatic Pool Cleaner START Delay:** Starts Cleaner Pump immediately, without normal delay in which the filter pump first runs for 5 minutes.
- **Automatic Pool Cleaner SOLAR Delay:** Allows Cleaner Pump to run even though solar delay has shut it off for 5 minutes.

Some heaters require a cool-down cycle before being switched off. This can be setup to run the filter pump an additional ten minutes to dissipate residual heat built up inside the heater combustion chamber. You can also cancel the delay feature. For information about using the cancel delay feature, refer to "Delay Cancel" on page 19.



Delays

To assign the delay feature:



Press the **Up/Down buttons** to select **Yes** or **No** to enable or disable delays for the pool and spa circuits. Press the **Right button** to move to the valves setting. Press the **Down buttons** to select **Yes** or **No** to enable or disable delays for valves. Press the **Menu** button to save and to return to the Settings menu options. Press the **Menu** button again to return to the main menu or press again to go to the main screen.

Settings Menu: F° / C° (Fahrenheit/Celsius)

The temperature settings for the water, solar and air can be displayed in either Fahrenheit or Celsius.



F°/C°

To change the temperature units:



Up/Down buttons: Select either Fahrenheit or Celsius.

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

Settings Menu: iS4 Spa-Side Remote Controller

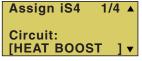
You can specify any iS4 Spa-Side remote button to control different functions by assigning each button to a specific circuit. For example, you can use the iS4 Spa-Side remote to activate the spa circulation, and for operating three auxiliary pieces of equipment (such as heat enabled, lights, jet pump,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



Assign iS4

Before configuring the iS4 Spa-Side remote controller assign names to the circuits (see page 26).

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 (EasyTouch 8), Aux 1-3 (EasyTouch 4), Aux Extra, 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 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 106° 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.

Note: To disable or enable the iS4 Spa-Side remote, see Settings Menu: Spa Side," on page 38.

Settings Menu: QuickTouch (QT4) Wireless Remote

The QuickTouch QT4 wireless remote controller provides switching of up to four circuits. For example, you can use the QT4 wireless 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.).

Each of the four functions on the QT4 wireless controller has an on and an off button. To switch a circuit on or off, press and hold the appropriate button for at least a full second.

The QT4 buttons can be assigned to any available circuit. However, the QT4 has the following preset circuits assigned to the four buttons:

- Spa button activates the spa circuit.
- A button activates **Auxiliary 1** circuit.
- B button activates **Auxiliary 2** circuit.
- C button activates Auxiliary 3 circuit.

Assign QT4



To assign circuits to the QuickTouch wireless controller buttons:

Assign QT4 1/4 ▲ Circ: [Spa]

Up/Down buttons: Select a circuit to assign to one of the QuickTouch wireless remote 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 (1/4) on the QuickTouch wireless remote. Use these buttons to scroll through the circuit names and find the circuit that you would like to assign to the first button. The generic circuits selections are: None, Spa, Pool, Aux 1-7 (EasyTouch 8), Aux 1-3 (EasyTouch 4), Aux Extra, 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" auxiliary circuit on and off (see page 5).

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. The temperature will not go beyond the 106° 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), then repeat the procedure for the other three buttons.

Press the **Back** 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.

Settings Menu: Man Heat (Off/On)

By default manual heat (Man Heat) is set to "On," which allows your spa to begin to heat whenever it is manually switched on, (by pressing the **Valves** (**V**) button and **Filter Pump** (**F**) button on the outdoor control panel or the **Spa** button on the Indoor Control Panel), even if the Heat menu setting is set to "OFF" (see page 18). Your spa will also begin to heat when switched on by the iS4 Spa-Side remote. This feature allows you to program your spa to filter daily with the heater set to off, and then be ready to heat whenever the Spa button is pressed manually.



Man Heat

To enable or disable spa manual heat when switched on manually:



Right button:: Select **Off** to disable or **On** to automatically begin spa heating whenever the spa is switched on manually.

Press the **Menu** button to save the settings and to return to the main screen.

Settings Menu: Calibration

The EasyTouch system includes two temperature sensors ($10 \text{ k}\Omega$) for water and ambient air temperature. You can also add an additional sensor for controlling solar heating systems. Generally, these sensors are accurate and you do not have to calibrate them. However, long plumbing runs and water features can cause temperatures at a body of water to be different from the temperature sensor reading. You can manually recalibrate the sensors to adjust for this. You only need to calibrate one body of water, since the temperature sensor is common to both the pool and spa. The system must be in "Service" mode to calibrate sensors.



Calibration

Before you start, you need an accurate all weather thermometer. If you are calibrating the air sensor, wait until the sensor is not in direct sunlight. For the air temperature sensor, make sure that the sensor is located in the shade for accurate readings.

To calibrate the water, air and solar temperature sensors:

- 1. Press the **Mode** button on the control panel to place the system in "Service" manual mode.
- 2. Press the **Filter Pump** (**F**) button to switch on the pool/spa filter pump.
- 3. Place the thermometer in the spa or pool water. Take an accurate temperature reading. When calibrating the air sensor, place the thermometer next to the air sensor. The air sensor is normally located near or under the EasyTouch load center enclosure, not inside the enclosure. Take an accurate temperature reading in the shade.
- 4. Use the **Up** or **Down** buttons to raise or lower the water temperature to match the corresponding thermometer temperature reading.
- 5. After calibrating the water sensor, use the **Right** button to move to the "AIR" setting and repeat step 4 and repeat the procedure for the solar sensor. Ensure that the solar sensor is in the sun for accurate readings.
- 6. After calibrating all the sensors, press the **Back** 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.

Settings Menu: Erase EEPROM (Erase System Memory)

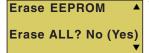
EasyTouch system configuration data is stored and retained in "Flash" memory in an EEPROM located on the control panel motherboard and optional Indoor Control Panel. The EasyTouch user system configuration data can be erased to restore the factory defaults settings. System information automatically downloads from programmed components to non-programmed components in case of accidental memory loss and to ease board replacement. Any optional controllers (iS4, QuickTouch QT4 controller) that were configured need to be reconfigured.

Erase EEPROM

The following procedure describes how to erase the system memory from either the main EasyTouch control panel or the EasyTouch Indoor Control Panel.

CAUTION: This procedure will erase all system settings. Any optional controllers will need to be reconfigured.

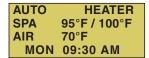




▲ Up/Down button: Select Yes.



Right button: The message "Erase EEPROM Are You Sure? No" is displayed. Up/Down button: Select Yes.



Right button: Press this button to erase system data and restore the factory defaults. The display will go blank, then the main screen will be displayed.

Settings Menu: Wireless Addr

Use this feature to configure the EasyTouch wireless control panel with a unique communication address to allow the wireless device to operate with the EasyTouch outdoor control panel (see page 50).

Wireless Addr



To search and lock on to the EasyTouch wireless control panel:



Address Wireless

Right button: Select this button to automatically search and lock on to the EasyTouch wireless control panel within range of the transceiver antenna. For more information about the EasyTouch wireless control panel, refer to the EasyTouch Wireless Control Panel User's Guide (P/N 520688).

Press the **Menu** button to save the settings and to return to the Settings menu selections.

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.



Software Rev
UIC: 1.02

UOC: 1.02

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 **Back** 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.



Bootloader Rev

UIC: 1.02 UOC: 1.02 **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 **Back** 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: Self Test

Tests the control panel LCD and buttons. Follow the on-screen prompts to perform the tests.



Note: If the Indoor Control Panel is connected to the EasyTouch outdoor control panel, select "LINK CLOSED" in the UART test to abort the UART test. This allows the test to complete with and display PASSED.

Firmware Version Soft: 1.02 Boot: 1.02 Press Any Button Press the **Right** button to display the current software and bootloader revision levels for the EasyTouch outdoor control panel.

Press the **Right** button to start the test:

Press the Right button to start the test:

Press Any Button

Display Test: Press any button to start the LCD test.

Backlight Test: Press the Left then Right button.

Contrast Test: Press any button to continue.

Backlight On <=Backlight On >=Backlight Off

Contrast:

LED Test: Press any button to continue. All of the button LEDs will be tested.

Press any button

Switch Test: Press any button to continue. As prompted, press the appropriate buttons.

LED Test

UART Test: Select "LINK CLOSED" to abort this test if the optional Indoor Control Panel is connected to the EasyTouch load center.

Switch Test
Press any button

Status: Passed - Code 0: After you have completed the test an error code is displayed. "Passed" is displayed if the test was successful. For error code descriptions, see "Self Test Error Codes," on page 44.

UART Test <=Link Closed >=Link Open Press the **Back** 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: Chlorinator

Displays the current IntelliChlor chlorination system status. For more information, refer to the IntelliChlor Electronic Chlorine Generator User's Guide (P/N 520589).





Menu: Press this 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.

SALT LEVEL: Displays the current salt level. Values from 0 to 12750 ppm in 50 ppm increments.

IntelliChlor Status messages:

SUPER CHLORINATE: IntelliChlor is in "Super Chlorination mode (see page 26 for details)

COM LINK ERROR: Check cable from IntelliChlor to EasyTouch motherboard. **Check FLOW/PCB:** Check IntelliChlor electrolytic cell controller. Refer to IntelliChlor User's Guide troubleshooting information.

LOW SALT: Add salt to pool water. The water salt level is between 2500 ppm and 2900 ppm. The IntelliChlor will continue to produce chlorine at a reduced level.

VERY LOW SALT: Not enough salt in pool. The water salt level has fallen below 2500 parts per million (ppm). IntelliChlor will not produce chlorine until additional salt is added manually.

HIGH CURRENT: Check IntelliChlor electrolytic cell controller. Refer to IntelliChlor User's Guide troubleshooting information..

CLEAN CELL!!: Cell has calcium build up and requires cleaning. Refer to IntelliChlor User's Guide for cleaning instructions.

LOW VOLTAGE: Check IntelliChlor electrolytic cell controller. Refer to IntelliChlor User's Guide troubleshooting information.

OK - NO ERRORS: IntelliChlor is in normal operating mode.

Diagnostics Menu: Water Temp

Displays the current water temperature for the pool and spa.



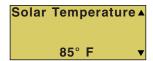


Press the **Back** button to return to the Settings menu options. Press the button again to return to the main menu options or press again to return to the main screen.

Diagnostics Menu: Solar Temp

Displays the current solar temperature.



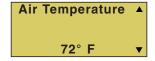


Press the **Back** button to return to the Settings menu options. Press the button again to return to the main menu options or press again to return to the main screen.

Diagnostics Menu: Air Temp

Displays the current outside air temperature.





Press the Back 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: Disp Codes

Perform a communications test with installed equipment. Use this feature when testing the system.



To start the test:



Down button: Select **Yes** to enable the feature.

Menu or Right button: Press either of these buttons to start communications test. Digits display on the right side of all menu screens indicating verification transmit and received packets.

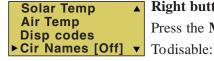
To stop test: Go to the "Disp Op Codes" menu and select No, then press the Back button to exit.

Diagnostics Menu: Cir Name: [Off/On]

This feature is useful if you have renamed many circuits and want to view the original factory default circuit names.



To enable:



Right button: Select **On** to view the factory default circuit names.

Press the **Menu** button to exit.

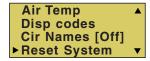
Right button: Select **Off** to disable the feature.

Press the **Menu** button to exit.

Diagnostics Menu: Reset System

Reinitialize the Outdoor Control Panel. Resetting the Outdoor Control Panel will not effect the system configuration settings.





Right button: Press the Right button to reset system. The main screen will be displayed and communication will be established with the optional EasyTouch Indoor Control Panel if installed.

Diagnostics Menu: Flash Update

Use this feature to update the EasyTouch Outdoor Control Panel firmware. The EasyTouch motherboard must be connected to a personal computer (PC) in order to update the firmware.



Press the **Back** button to exit the flash mode.

Troubleshooting

Troubleshooting

Use the following troubleshooting information to help resolve problems that may occur when using the EasyTouch system. If by following the recommended actions you are still unable to resolve the problems, please contact Technical Support (see page vi).

Frequently Asked Questions (FAQ)

How do I setup a two-speed pump?

A two-speed pump operates using two relays and one or more circuits. The first relay turns the pump on or off. Assuming this is a filter pump, this circuit is controlled by the pool and spa circuits or any other circuit that may be tied to the filter pump (such as circuits with freeze protection, etc.). The second relay switches the pump from low speed to high speed. The default condition is low speed. Up to seven circuits (EasyTouch 8), three circuits (EasyTouch 4) may be assigned to trigger the pump to high speed. Note: These circuits do not switch the pump on.

To configure a two-speed pump relay, refer to "Settings Menu: 2-Speed Pump," on page 32. For relay location and wiring (see page 48). The 2-Speed pump relay connector is plugged into the 2-SPD output on the EasyTouch motherboard.

Can I switch the heater on and change the temperature from the spa?

The heater may be switched on from the spa location using the iS4 Spa-Side remote or by the QuickTouch wireless remote controller. To learn more about these remotes and controllers, see page 6. However, the iS4 and QuickTouch wireless remote controller cannot adjust the water temperature.

How do I switch on solar heating?

The system must first be configured for solar heating. Go to the "Heat" menu (see page 18) and enable "Solar" as the heat source (**Settings Menu: Heat > Solar**). Note: Do not set solar as a heat pump. Then the heating method must be selected for each body of water.

EasyTouch Error Messages

Error Messages

If the system detects that a sensor is not connected to the EasyTouch load center or it is defective, an error message is displayed in the "Diagnostics" menu. The following lists the sensor errors.

Error Message	Possible Cause	Solution
Air Err (Displays on the Main Screen)	Air sensor not connected to the EasyTouch motherboard.	Check that the air sensor plug is connected to J21 connector on the motherboard. Check that the sensor wire is connected properly.
Air Temperature Err (Displays in the "Diagnostics" menu)	Air sensor not connected to the EasyTouch motherboard.	Check that the air sensor plug is connected to J21 connector on the motherboard.
Water Temperature Err (Displays in the "Diagnostics" menu)	Water sensor not connected to the EasyTouch motherboard.	Check that the water sensor plug is connected to J21 connector on the motherboard.
Solar Temperature Err (Displays in the "Diagnostics" menu)	Solar sensor not connected to the EasyTouch motherboard.	Check that the solar sensor plug is connected to J21 connector on the motherboard.

Self Test Error Codes

The "Self Test" feature is intended for use by service personnel. If after performing a control panel self test (see page 39) there were no errors detected, Code 0 is displayed, indicating that there were no problems and the test was successful. If a problem is detected during the test, an error code is displayed upon completion of the test. For example Code 3 would indicate a problem with the LEDs on the control panel. If multiple errors are detected, multiple code numbers are displayed. For example, Codes 4, 2, 1, would indicate problems detected with the buttons, LEDs, and the LCD backlight on the control panel.

The following lists the control panel self test error codes.

Error Code Table

Error Code	Description
Code 0	PASS - The control panel has no problems
Code 1	LCD backlight
Code 2	LCD contrast
Code 3	LEDs
Code 4	Switch (buttons)
Code 5	UART loopback test
Code 6	Sensor/Relay/Valves test

Maximum Programs Exceeded

The "Maximum Programs Exceeded" message displays in the "Schedules" menu if you try to create a new program after exceeding the 12 program limit. To create a new program you must first delete an existing program. For information about deleting a program, refer to "Schedule Menu" on page 20.

IntelliChlor Error Messages

IntelliChlor status and error messages are displayed in the "Chlorinator" menu (see page 40). Use the following information to resolve IntelliChlor system problems. To access the IntelliChlor menu, press **Menu > Diagnostics > Chlorinator**.

Status Message	Possible Cause	Solution	
OK-NO ERRORS	IntelliChlor normal operating mode.	N/A	
SUPER CHLORINATE	IntelliChlor is in "Super Chlorination" mode for 24 hours.	IntelliChlor is in "Super Chlorination mode (see page 40 for details)	
COM LINK ERROR	IntelliChlor communication error with EasyTouch motherboard.	Check cable from IntelliChlor to EasyTouch motherboard.	
CHECK FLOW/PCB	Check IntelliChlor electrolytic cell.	Refer to IntelliChlor User's Guide troubleshooting information.	
LOW SALT	Add salt to pool water.	The water salt level is between 2500 ppm and 2900 ppm. The IntelliChlor will continue to produce chlorine at a reduced level. See IntelliChlor User's Guide for details.	
million (ppm). I additional salt		The water salt level has fallen below 2500 parts per million (ppm). IntelliChlor will not produce chlorine until additional salt is added manually. See IntelliChlor User's Guide for details.	
HIGH CURRENT	Check IntelliChlor electrolytic cell.	Check IntelliChlor electrolytic cell controller. Refer to IntelliChlor User's Guide troubleshooting information.	
CLEAN CELL!!	Cell has calcium build up and requires cleaning.	Cell has calcium build up and requires cleaning. Refer to IntelliChlor User's Guide for cleaning instructions.	
LOW VOLTAGE	Check IntelliChlor electrolytic cell.	Refer to IntelliChlor User's Guide troubleshooting information.	

System Problem Diagnosis

Use the following information to resolve system problems.

Problem: The system works in Service Mode, but Indoor Control Panel fails to operate.

Symptom	Possible Cause	Solution
Indoor Control Panel has no power - (screen, blank, no LEDs, buttons not working).	Bad wiring run from Outdoor Control Panel/motherboard in the Load Center.	Verify cable and ensure no connections are broken. In some cases a wire is broken under the insulation. The two center wires of the four conductor cable are suspect (Green and Yellow)
Indoor Control Panel lights up, but fails to operate correctly. The unit will not turn equipment on/off, or may turn some items on, but not off and may not LEDs near buttons on control panel.	Defective Cable/wiring	Verify cable and ensure no connections are broken. In some cases a wire is broken under the insulation. The two center wires of the four conductor cable are suspect (Green and Yellow)

Problem: iS4 fails to operate.

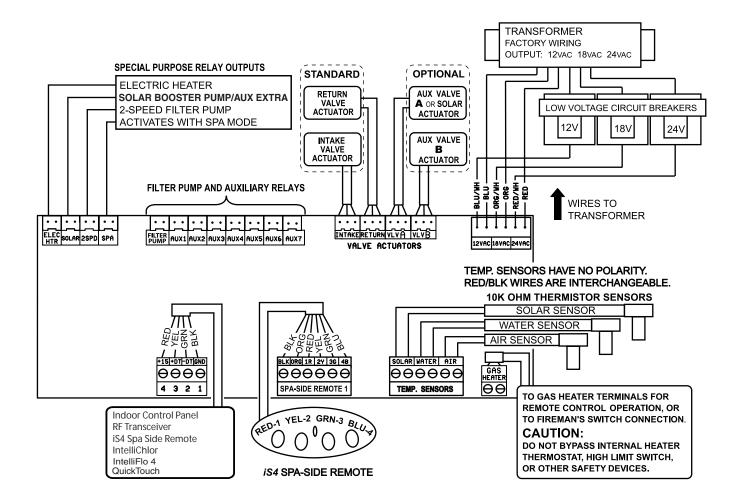
Symptom	Possible Cause	Solution	
iS4 fails to operate equipment.	iS4 is disabled.	See page 38 to enable the iS4.	
	Defective Wiring	Verify iS4 setup. Ensure the iS4 in question has the expected circuit assignments, and is not assigned to unused circuits.	
	Incorrect configuration or button setup.	See page 34 to setup the iS4 buttons.	
	Defective iS4	Replace defective iS4	
iS4 fails to operate only some of the switches, but others work fine.	Defective wiring on one or more iS4 leads	Verify wiring on motherboard and iS4.	
	Incorrect configuration or circuit to switch assignment.	Verify motherboard connection.	

Problem: The Quick Touch remote will not work, or will not work dependably.

Symptom Possible Cause		Solution	
POWER LED does not light on the Receiver board located in the plastic clam shell.	EasyTouch Load Center does not have power	Ensure power is being supplied and that the power center operates correctly without the receiver installed	
	Defective cable or connection to the Load Center	Verify the function of the board using known good cable set. Check all wiring	
	Defective Receiver board	Contact Technical Support	
COMM LINK LED does not light or blink. In normal operation LED will blink at least every 2 seconds	Defective cable or connection to the Load Center	Verify the function of the board using known good cable set	
	Defective receiver board	Replace receiver board	
Address switches are incorrectly configured	Verify that the address switches on the transmitter and handheld receiver board are correct and match	Transmitter battery has failed	
	Replace Transmitter battery	Defective Transmitter or Receiver	
Unit functions, but some circuits do not work, or operate the incorrect circuit	QuickTouch configuration is incorrect	See page 35 to setup buttons	
Unit fails to operate, or fails to operate dependably at range	Excessive electrical noise	Relocate the receiver away from "noisy" electrical equipment such as blower motors	
	Too many obstructions between the transmitter and receiver	Relocate the receiver away from ground metal and obstructions	
	Receiver unit is too near the ground	Relocate the receiver to maximize the distance between the receiver antenna and the ground	

Problem: The Quick Touch remote will not work, or will not work dependably (Continued).

Symptom	Possible Cause	Solution
Unit seems to turn on or off circuits without the user / transmitter	A near by home is operating a similar wireless unit	Select an alternate address code for the transmitter and receiver. Change the switches on both receiver and remote to an alternate, but matching setting.
Unit dependably turns equipment ON, but once equipment is running it does not dependably turn equipment OFF, or range is greatly reduced when equipment is running	Undue electrical noise is being produced by one or more pieces of equipment in close proximity to the receiver.	Relocate the Receiver away from equipment such as blower motors. Relocate the receiver in a location that provides fewer obstructions to the area the user commonly operates the transmitter.
Unit operates, but has greatly reduced range compared to prior function	Transmitter Battery is failing.	Replace Transmitter battery (type 2032 3V).



EasyTouch System Wiring Diagram (Load Center)

First Time System Start-Up

The following information describes a basic system start-up procedure. Before you power up the EasyTouch system at the Load Center first check the following:

Check Electronics

Check that the following plugs are seated correctly on the EasyTouch Load Center motherboard. For connector locations, refer to the EasyTouch System Wiring Diagram on page 50.

- Relay connectors FLTR PUMP AUX 1 7 (EasyTouch 8), AUX 1 3 (EasyTouch 4)
- Temperature sensors connectors WATER, SOLAR, AIR
- Transformer wire harness J1
- Heater control connector ELEC HTR and GAS HEATER (J19)

System Test

Follow the steps below to test the EasyTouch control panel to activate the heater, valves and pumps. This test assumes that all system equipment has been properly installed and connected to the EasyTouch Load center.

Testing Valve Actuators and Pumps:

Use the following steps to test the valve actuators (CVA24T) for proper rotation.

To test the valve actuators and pump:

- 1. Switch on the electrical power at the house breaker.
- 2. Switch on the EasyTouch Load Center. You may need to switch on the breakers on the Load Center.
- 3. Press the **Mode** button to enable "Service" mode.
- 4. Press the Valve (V) button to select "Pool" mode.
- 5. Press the **Filter Pump** (**F**) button to activate the filter pump. Water will be removed from the pool and returned to the pool. A spa bypass line divert a small amount of water to the spa. Make sure the filter pump turns on correctly. If the pump has two speeds: Press the button one time to run the pump in low speed. Press the button again to run the pump in high speed. Press the button again to switch the pump off. A Two-Speed pump has to be configured in the 2-Speed menu (see page 32).
- 6. Set both valve actuators (CVA-24T) for suction and return. Use the toggle switch on the rear of the CVA-24T to withdraw and return water from the pool.
- 7. Press the **Valves** (**V**) button. Step through all four valve positions: Pool, Spa, Fill, Drain. Make sure the valves turn on correctly and the water is moving in the correct direction for each position. If necessary, flip the actuator toggle switch to change the direction of the water.

Note: With the filter pump operating, if water is not being removed and returned to the pool, it may be necessary to reverse the **RETURN** with **VLV A** (or **VLV B**) plugs on the EasyTouch motherboard.

Testing the Auxiliary Relays

Affix the auxiliary relay labels to the appropriate buttons on the EasyTouch control panel and/or the EasyTouch Indoor Control Panel. If necessary, write the function on the control panel.

- 1. Step through the rest of the auxiliary buttons. Notice which button turns on which equipment. You may need to walk the property to find what each button turns on.
- 2. Write down what each button switches on, including the number of the circuit. You need this information when you set up the Indoor Control Panel.
- 3. Label the circuit buttons on the outdoor control panel and the EasyTouch Indoor Control Panel.

Setting up the EasyTouch wireless control panel for the first time

Setting up the EasyTouch wireless control panel

In order for the EasyTouch wireless control panel to communicate with the EasyTouch system outdoor control panel, the first time the wireless device is powered up it must first be assigned a unique communication address. For this process you need to access the menu for each control panel. For convenience it's easier to setup the wireless device at the outdoor control panel.

From the EasyTouch load center outdoor control panel

- 1. Switch power on to the EasyTouch load center.
- 2. Press **Menu** button, and select **Settings > Address** and press the **Right** arrow button.

Address Wireless Scanning ...

Address Wireless Sending Address.. <MENU>

The EasyTouch outdoor control panel will display "Scanning..." for about five seconds while it searches for the EasyTouch wireless device within range of the transceiver antenna. After the scanning process has finished, "Sending Address" is displayed. The system is now waiting to lock on to the EasyTouch wireless control panel. Proceed to step 3.

From the EasyTouch wireless control panel

3. Press the **Power On** button located on the front of the wireless device.

Note: After replacing depleted batteries a check battery message is displayed on the screen. Press the **MENU** button twice to continue.

- 4. Press **Menu** button, and select **Settings > Address** and press the **Right** arrow button.
- 5. Select "Address" and press the **Right** arrow button to lock on to the unique address that is being transmitted from the outdoor control panel.



Note: If you choose "Abort," the device can continue to operate using the factory default address. If the outdoor control panel has been previously addressed, the wireless may not operate the system. Each time the device is switched on the "NO ADDRESS" will be displayed. This mode is not recommended for permanent use.

6. After selecting "Address" the wireless device unit will lock on to a unique address and display "Found ADDRESSED." Press the **Menu** button to save and exit this mode. The device is ready for operation.

Address Lock Found ADDRESSED <MENU> **Note:** "Unit Mismatch" displays if the outdoor control panel has an existing system image. See page 51 for details.

Unit Mismatch A
Download from
Outdoor

7. **On the outdoor control panel:** Press the outdoor control panel **MENU** button three times to exit the "Sending Address" mode and return to the main screen. The system will continue to transmit an address until the Menu is button is pressed to stop the process.

Note: To readdress the EasyTouch wireless device, repeat steps 2 through 7 on the wireless device to restart the address process.

Synchronizing control panels

If the EasyTouch outdoor has been previously setup with specific pool and spa information and an additional indoor or wireless control panel with factory default information is installed, during the installation process the outdoor control panel will automatically download the system information to the connected control panel. If the outdoor, indoor or wireless control panels have different revision levels or contain previous setup information, you can choose which system image to upload or download.

Synchronizing control panels is initiated from the indoor or wireless control panel. The following describes how to synchronize an indoor or wireless control panel.

Download from outdoor to indoor control panel

• Press the **Menu** button to download the system image from the EasyTouch outdoor control panel.



Upload to outdoor from indoor control panel

- 1. Press the **Up/Down** button to access the "Upload" screen.
- 2. Press the **Menu** button to upload the system image from the indoor or wireless control panel to the EasyTouch outdoor control panel.



Note: To erase existing control panel system information, use the "Erase EEPROM" feature. Refer to "Erase EEPROM" on page 37 for more information.

Glossary

Aux Extra: An additional auxiliary output circuit that uses the Solar socket (J17) on the EasyTouch motherboard. Uses the Solar button on the outdoor control panel to switch circuit on and off. Only available if solar equipment is not being used.

High Voltage Compartment: Large lower right compartment of Load Center for all high voltage wiring including circuit breakers, relays, and GFCI.

Indoor Control Panel: Nine or 14 button remote controller with LCD (liquid crystal display) wired to the EasyTouch motherboard in the load center. The Indoor control panel can be wall mounted inside the house.

iS4: Four function Spa-Side remote. Can be spa wall or deck mounted.

Load Center: Metal enclosure with power relays, transformer, and circuit breakers. Used for distributing power for controlling the EasyTouch system. Also known as the "sub-panel."

Low Voltage Compartment: Top compartment of Load Center for all low voltage wiring.

Low Voltage Raceway: Vertical space in the left side of EasyTouch load center for low voltage cabling.

Motherboard: The circuit board mounted on top of the EasyTouch control panel. The EasyTouch motherboard defines the system capabilities.

Receiver/Antenna: Used with the QuickTouch (QT4) to receive radio frequency (wireless) transmissions.

RF Transceiver: Used with the EasyTouch wireless control panel to transmit and receive radio frequency (wireless) transmissions.

Relay Circuits: The circuits that control the relay outputs on the EasyTouch motherboard. Connectors are located on the top edge of the circuit board.

Screw Terminal Connector: Removable connector that may attach to circuit board with multiple sockets (anywhere from 2 to 12) to receive wires from controllers and sensors; wires held by screw terminals; multiple wires of a small enough gauge (usually 22 AWG) may be coupled to a single socket of a terminal connector. Sockets are located on the EasyTouch motherboard.

Notes

Notes

