



INTELLICENTER®

WIRELESS REMOTE

INSTALLATION GUIDE



IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS

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Scan or click the QR code to take a quick survey and help us provide the most easy-to-use and accurate product manuals possible!



IMPORTANT SAFETY INSTRUCTIONS



This guide provides installation and operation instructions. Consult Pentair with any questions regarding this equipment (refer to *CUSTOMER SERVICE / TECHNICAL SUPPORT*, page 1).

Attention Installer: This guide contains important information about the installation, operation and safe usage of this product. Give this guide to the owner and/or operator of this equipment after installation.

Attention User: This guide contains important information that will help you in operating and maintaining this product. Retain this document for future reference. Read the entire Installation Guide and all related warning labels before installing, servicing or using this product.



This is a safety alert symbol. When you see this symbol in this manual or on the product, look for one of the following signal words; DANGER, WARNING, or CAUTION and comply with the information. Be alert to the potential hazard. Make sure to read and comply with all warnings in this manual.

This product is designed and manufactured for safe and reliable service when installed, operated and maintained according to the information and installation codes referred to in this Guide.



SERIOUS BODILY INJURY OR DEATH CAN RESULT IF THIS PRODUCT IS NOT INSTALLED AND USED CORRECTLY.



INSTALLERS, POOL OPERATORS AND POOL OWNERS MUST READ THESE WARNINGS AND ALL INSTRUCTIONS BEFORE USING THIS PRODUCT. This Guide provides installation and operation instructions for the product. Consult Pentair with any questions regarding this product.



This product is intended for use in swimming pool applications only.



Most states and local codes regulate the construction, installation, and operation of public pools and spas, and the construction of residential pools and spas. It is important to comply with these codes, many of which directly regulate the installation and use of this product. Consult your local building and health codes for more information.



Read the operating instructions and warnings for all equipment filtration system before operating. 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 this guide or replacement safety labels.



RISK OF ELECTRICAL SHOCK OR ELECTROCUTION! Always disconnect power at the circuit breaker before servicing the load/power center. Improper installation can create an electrical shock hazard that can result in death or serious injury.



This product must be installed by a licensed or certified electrician or a qualified service professional in accordance with the current National Electrical Code (NEC) or Canadian Electrical Code (CEC). All applicable local installation codes and ordinances must also be adhered to. Improper installation will create an electrical hazard which could result in death or serious injury to pool users, installers or others due to electrical shock, and may also cause damage to property. Always disconnect the power to the pool light at the circuit breaker before servicing the light. Failure to do so could result in death or serious injury to serviceman, pool users or others due to electrical shock.



The electrical supply for this product must include a suitably rated switch or circuit breaker to open all ungrounded supply conductors to comply with the current National Electrical Code (NEC) or Canadian Electrical Code (CEC). All applicable local installation codes and ordinances must also be adhered to. The disconnecting means must be readily accessible to the tub occupant but installed at least 5 feet [1.5 m] in US, or 3 meters [9.75 ft] in Canada, from the inside wall of the pool.



Use only copper supply conductor's rated for 60C/75C based on ampacity to support all loads (refer to NEC tables). Load/power center input supply to be protected by 150 Amp Maximum, 240 VAC Main Circuit Breaker.



Water temperature in excess of 100°F [37.7°C] 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]. 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. The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia in hot tubs and spas.

IMPORTANT SAFETY INSTRUCTIONS

⚠ WARNING

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

Except for UL listed spa-side remote controls, install all electrical equipment a minimum of 5 ft. [1.5 m] from the inside wall of the pool and spa.

⚠ WARNING

Do not permit children to use this product.

⚠ 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 5 ft. [1.5 m] away, adjacent to, and within sight of, the unit.

⚠ CAUTION

For Installation of Electrical Controls at Equipment Pad (ON/OFF Switches, Timers and Automation Load Center).

Install all electrical controls at equipment pad, such as on/off switches, timers, and control systems, etc. to allow the operation (startup, shut-down, or servicing) of any pump or filter so the user does not place any portion of his/her body over or near the pump strainer lid, filter lid or valve closures. This installation should allow the user enough space to stand clear of the filter and pump during system start-up, shut down or servicing of the system filter.



⚠ WARNING

HAZARDOUS PRESSURE: STAND CLEAR OF PUMP AND FILTER DURING START UP.

Pool filtration systems operate under high pressure. When any part of the filtration system (i.e. locking ring, pump, filter, valves, etc.) is serviced, air can enter the system and become pressurized. Pressurized air can cause the pump housing cover, filter lid, and valves to violently separate which can result in severe personal injury or death. Filter tank lid and strainer cover must be properly secured to prevent violent separation. Stand clear of all filtration system equipment when turning on or starting up pump.



Before servicing equipment, make note of the filter pressure. Be sure that all controls are set to ensure the system cannot inadvertently start during service. Turn off all power to the pump. **IMPORTANT: Place filter manual air relief valve in the open position and stand clear of the filter until all pressure has been relieved and the pressure gauge reads 0 psi.**

Before starting the system, fully open the manual air relief valve and place all system valves in the "open" position to allow water to flow freely from the tank and back to the tank. Stand clear of all equipment and start the pump.

IMPORTANT: Do not close filter manual air relief valve until all pressure has been discharged from the valve and a steady stream of water appears. Observe filter pressure gauge and be sure it is not higher than the pre-service condition.

Two Speed Pump Controls Notice (Title 20 Compliance)

When using two-speed pumps manufactured on or after January 1, 2008, the pump's default speed **MUST** be set to the **LOWEST SPEED**, with a high speed override capability being for a temporary period not to exceed one normal cycle, or two hours, whichever is less.

General Installation Information

1. 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. Underwater luminaires should be installed according to requirements outlined in NEC 680.
4. A terminal bar stamped $\oplus$ is located inside the enclosure. 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). The bonding lug(s) provided on this unit are intended to connect a minimum of one #8 AWG for US installation and two #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 ft. [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 in accordance with the current National Electrical Code (NEC) or Canadian Electrical Code (CEC). All applicable local installation codes and ordinances must also be adhered to. The disconnecting means must be readily accessible to the tub occupant but installed at least 10 ft. [3.1 m] from the inside wall of the pool.

IMPORTANT SAFETY INSTRUCTIONS

FCC Standard: 47 CFR Part 15, Subpart C (Section 15.247). This version is limited to chapter 1 to chapter 11 by specified firmware controlled in the U.S.A.

FCC RF Exposure Requirements:

The antenna(s) used for this device must be installed to provide a separation distance of at least 7 inches (20 cm) from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

L'antenne (s) utilisé pour cet appareil doit être installé pour fournir une distance de séparation d'au moins (20 cm) à partir de toutes les personnes et ne doit pas être co-localisés ou fonctionner en conjonction avec une autre antenne ou un autre émetteur.

Notice for Virtual Cable (FCC ID: P4H-ICVC & ISCED: 4249A-ICVC): In order to comply with FCC/ISCED RF Exposure requirements, a minimum separation distance of 8 in (20 cm) must be maintained between the equipment and all persons during normal operation.

Notice for Wireless Remote Control (FCC ID: P4H-ICHNDHLD & ISCED: 4249A-ICHNDHLD): This portable transmitter with its antenna has shown compliance with FCC/ISCED SAR limits for general population / uncontrolled exposure. The maximum listed SAR level is 0.88 W/kg (body). The antenna used for this device must not be co-located or operating in conjunction with any other antenna or transmitter.

Avis concernant la télécommande sans fil (ID FCC: P4H-ICHNDHLD & ISCED: 4249A-ICHNDHLD): Cet émetteur portable avec son antenne a montré une conformité avec les limites SAR de la FCC / ISCED pour l'exposition de la population générale / non contrôlée. Le niveau SAR maximal indiqué est de 0,88 W / kg (corps). L'antenne utilisée pour cet appareil ne doit pas être co-localisée ou utilisée conjointement avec une autre antenne ou un autre émetteur.

Canada - Innovation, Science and Economic Development (ISCED): The IntelliCenter Control System and Wireless Remote comply with RSS210 of ISCED Canada. (1999). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

The device complies with industry Canada's License Exempt RSSs. Operation is subject to the following: (1) This device may not cause interference; and (2) This device must accept interference that may cause undesired operation of the device.

Le dispositif est conforme à la licence d'Industrie Canada Exempt CNR. Le fonctionnement est soumis à la suivante. (1) Ce ne doit pas provoquer d'interférences ; et (2) Cet appareil doit accepter les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

This Class B digital apparatus complies with Canadian ICED-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. The term "ISCED" before the certification / registration number only signifies that the Industry Canada technical specifications were met.

Instruction to user: The IntelliCenter Control System and Wireless Remote have been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against interference in a residential installation. These devices generate, use, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause interference to radio or television reception, which can be determined by switching the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

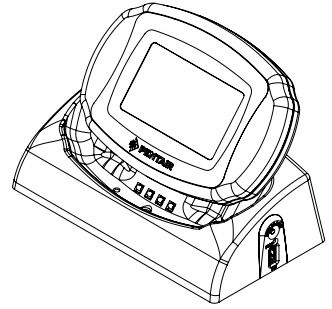
- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The user is cautioned that changes and modifications made to the IntelliCenter Control System device without the approval of the manufacturer could void the user's authority to operate this equipment.

INTRODUCTION

The IntelliCenter Wireless Remote provides the same functionality as the IntelliCenter Control System Indoor and Outdoor Control Panels. The operating range of the Wireless Remote is roughly 300 ft. [91 m] from the wireless transceiver antenna (line of sight). However, operating range may be affected by physical obstructions, weather conditions, and other environmental factors.

When used outside, keep the remote covered or in a shaded area. Prolonged exposure to sunlight may cause the screen to overheat. If this happens, place the remote in a shaded area and allow the screen to cool. Do not attempt to adjust the contrast while the screen is cooling.



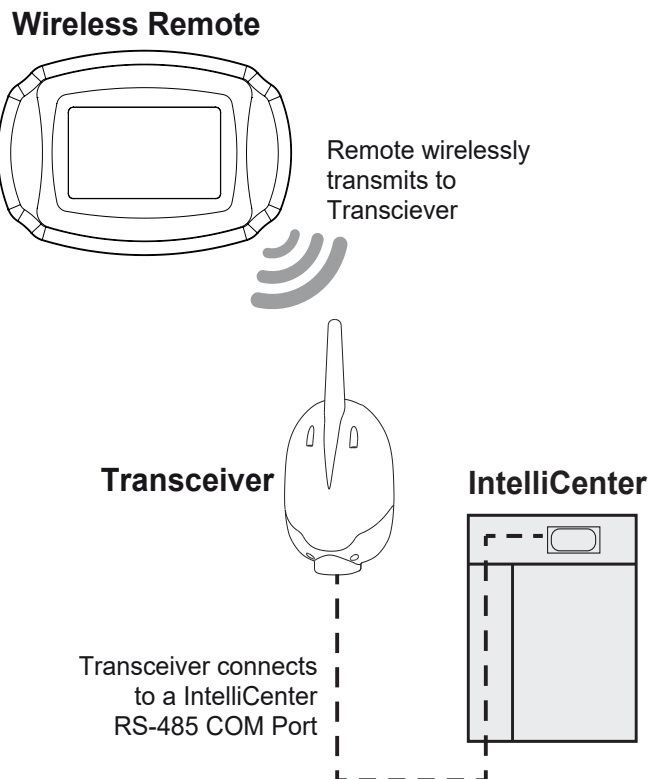
⚠ WARNING Do not plug the remote into a power source within 5 feet [1.5 m] of the pool and spa water. Canadian installations require a minimum of 3 meters [9.8 ft.] from pool water. Do not recharge outdoors. Only use Pentair approved AC power adapter transformer.

The remote is water resistant. However, it is not intended to be submerged. Immediately remove the remote if it is dropped in the water or exposed to rain, store it in a dry environment, and ensure the charging contacts are dry before charging.

KIT CONTENTS

- Wireless Remote
- Remote Cradle
- Wireless Transceiver
- AC/DC power adapter

WIRELESS REMOTE CONNECTION DIAGRAM



INSTALLATION

INSTALLING THE TRANSCEIVER

The Wireless Remote Transceiver module is connected to the IntelliCenter Control System via an RS-485 connection. Ensure the transceiver is mounted on a flat vertical surface, at least 5 ft. [1.5 m] above ground level to optimize operating range.

To avoid signal interference, mount the Transceiver antenna at least 10 ft. [3 m] from the IntelliCenter Load/Power Center.

If using multiple wireless remotes, ensure transceivers are installed at least 6 ft. [1.8 m] apart. This will prevent interference and ensure better wireless reception.

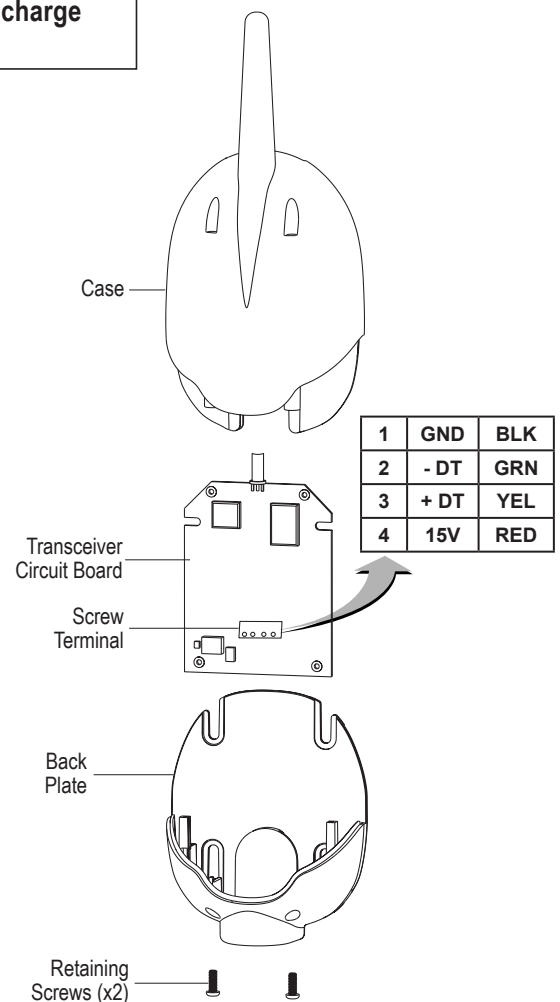
1. Remove the two retaining screws securing the transceiver case to the back plate and carefully slide the case off the back plate.
2. Carefully slide the transceiver circuit board up and out of the back plate.

NOTICE HOLD THE CIRCUIT BOARD AT THE EDGES. Do not touch the board components. Electrostatic discharge can damage the board.

3. Position the back plate against the mounting surface with the antenna pointing upwards.
4. Use a pencil to mark the four mounting points.
5. If using drywall anchors, drill four 3/16-inch holes into the mounting surface and insert the anchors.
6. Reposition the back plate and secure it to the mounting surface with the provided mounting screws.
7. Feed one end of the provided cable through the knockout hole in the bottom of the back plate.

Note: If not using the knockout hole, drill a hole through the bottom of the back plate, route the wire through the hole and seal it using a fitting with a few feet of conduit or some other sealant between the case and the cable.

8. Carefully slide the transceiver circuit board into the back plate.
9. Strip the conductors of the provided communication cable 1/4-inch.
10. Insert and secure the conductors into the provided Screw Terminal block. Match the color-coding of the wires: GND = Black, Green = -DT, Yellow = +DT, and Red = +15.
11. Place the screw terminal connector onto the transceiver circuit board.
12. Slide the case onto the back plate and reinstall the two retaining screws.



Wireless Transceiver Components

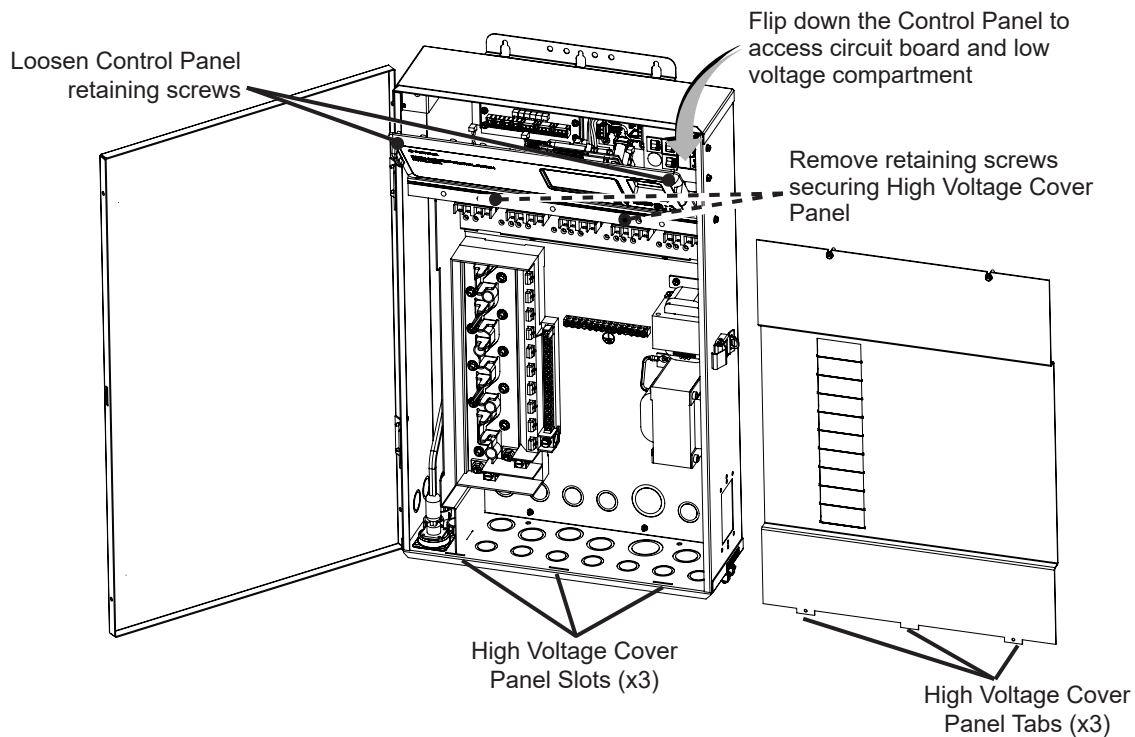
CONNECTING THE TRANSCEIVER TO INTELLICENTER



WARNING BEFORE REMOVING THE HIGH VOLTAGE COVER PANEL OR MAKING ELECTRICAL CONNECTIONS, DISCONNECT POWER TO THE LOAD/POWER CENTER AT THE MAIN CIRCUIT BREAKER.

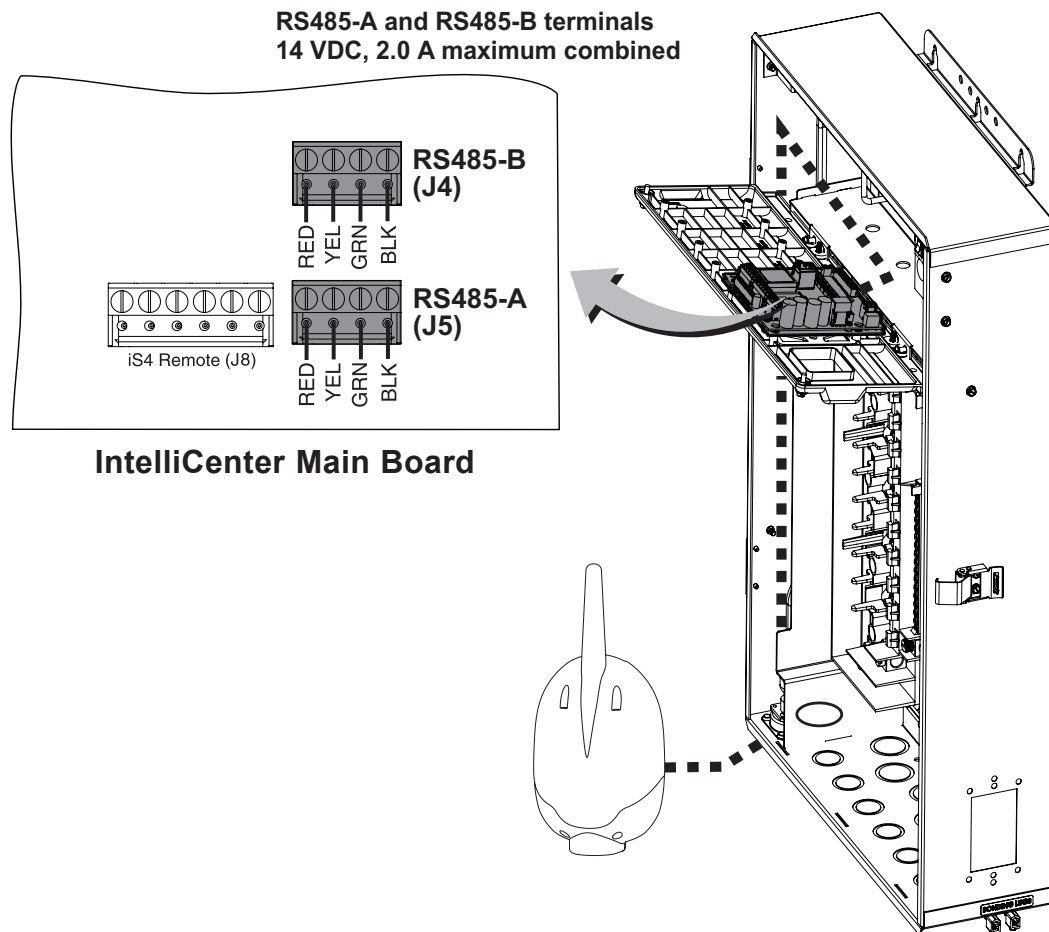
1. **Disconnect power to IntelliCenter at the main circuit breaker**
2. Open the enclosure and remove the two retaining screws securing the High Voltage Cover Panel
3. Remove the High Voltage Cover Panel.
4. Loosen the two retaining screws securing the top edge of the Control Panel.
5. Fold down the Control Panel to access the control board.
6. Remove the panel from the enclosure.

- Continue to Next Page -



CONNECTING THE TRANSCEIVER TO INTELLICENTER (CONTINUED)

7. Route the Transceiver cable through the grommet fitting in the lower left side of the enclosure.
8. Route the cable up the low voltage raceway to the main IntelliCenter board, as shown below.
9. Strip conductors 1/4-inch.
10. Wire the transceiver into the desired RS-485 terminal as shown below.
11. Reinstall the High Voltage Panel and reinstall the two retaining screws.
12. Close and secure the enclosure door.
13. Return power to the load/power center. After the Load Center is powered up the Wireless Remote will automatically synchronize with IntelliCenter.



OPERATION

REMOTE SETUP

- 1. From the Wireless Remote home screen, tap **Settings > Advanced System Configuration > IntelliCenter Wireless Remote Setup**.
- 2. Select an Address and Panel Number for the Wireless Remote.

Address Button: This button displays the current wireless address being used. Choose the address that has the best signal strength. In most cases, address 23 is the default address. To change the address, tap the Address button and select the desired channel number.

Panel #: Tap this button to select which Wireless Panel to transmit from. Select either Wireless Panel #1 or Wireless Panel #2.

Update FW: Tap Update FW to update the firmware.

Radio Firmware Mode: Displays the current firmware version on the wireless remote.

IntelliCenter Wireless Remote Setup

Address

12

Panel #

1

Update FW

FW Update Mode: Off

FW Update State: N/A

FW Updata Status: N/A

Radio Firmware Version: 0.00

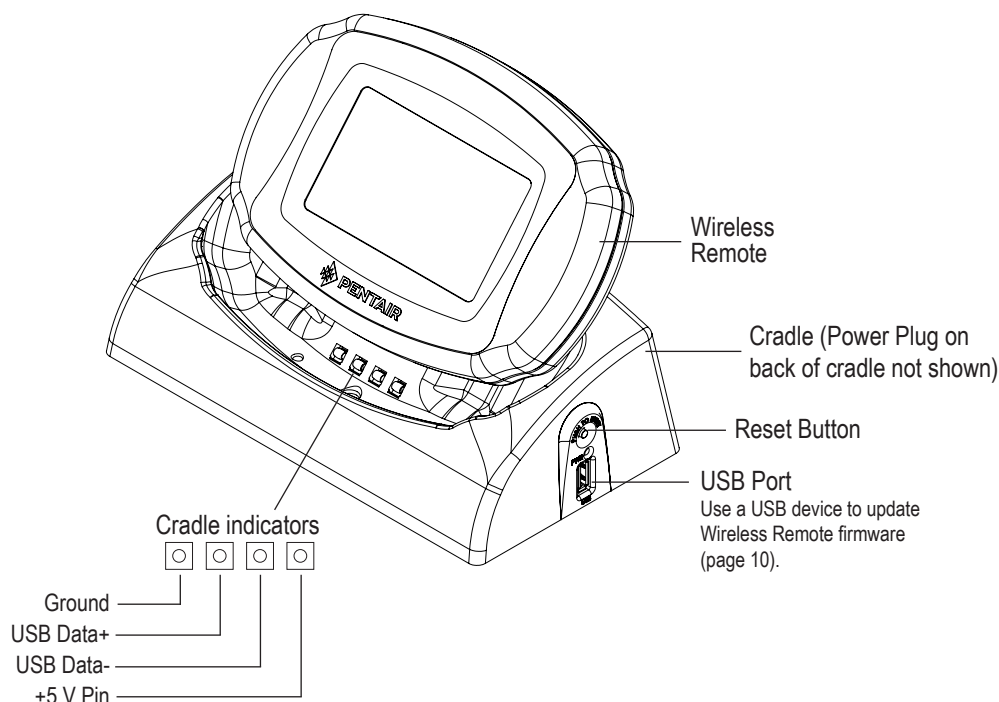
Select Wireless Channel

☒ 12	☐ 13
☐ 14	☐ 15
☐ 16	☐ 17
☐ 18	☐ 19
☐ 20	☐ 21

CHARGING THE REMOTE

When not using the Wireless Remote, place it in its cradle to recharge the battery. This allows the battery to be fully charged at all times. To charge the remote:

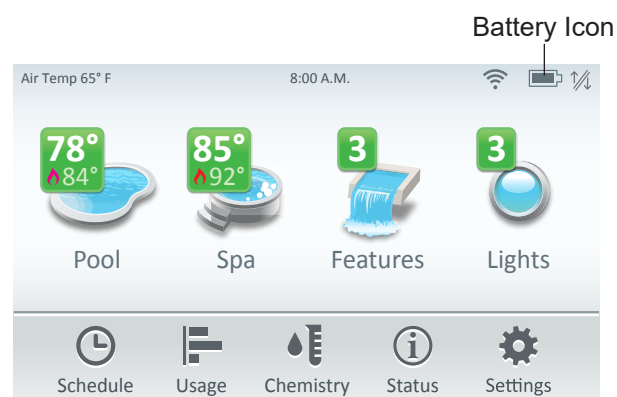
1. Plug the power adapter into a wall outlet.
2. Plug the power adapter into the bottom of the cradle.
3. Place the Wireless Remote in the cradle. The screen should activate.
4. Verify the home screen battery icon (see below) is displaying charging.



DISPLAY BATTERY ICON

The Wireless Remote battery icon is located in the upper right corner of the Home screen. If the battery icon displays one or no bars or the screen is blank, this may indicate that the battery cannot power the device and needs recharging. The battery takes roughly 3 to 4 hours to fully charge.

If the battery requires replacement, only use a Pentair replacement battery (P/N 522054).



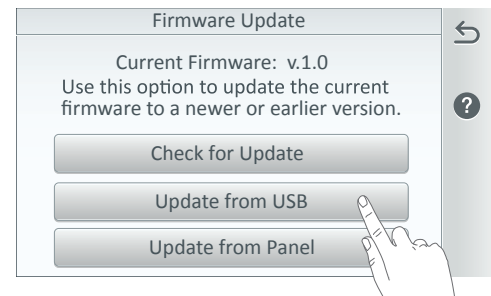
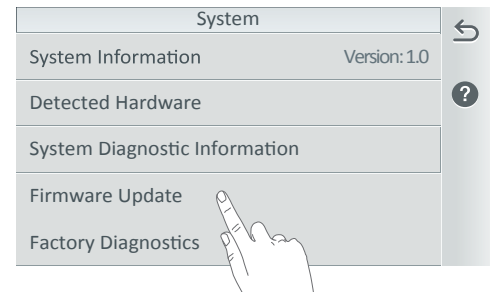
DISPLAY SETTINGS

To access display settings from the Home screen, tap Settings > General > Backlight.

- **Brightness Level:** Active screen brightness level.
- **Dimness Level:** Brightness level the screen will dim to when inactive.
- **Dim Display (min):** Amount of time the screen will wait to dim when inactive.
- **Turn Off Display (min):** Amount of time the screen will wait to turn off when inactive.
- **Battery Conservation Mode (Deep Sleep):** Allows you to conserve battery life while the wireless remote is in its cradle. Deep Sleep time can be set from 1 to 3 hours.

REMOTE FIRMWARE UPDATES

1. Insert a USB device into the USB port on the IntelliCenter Control Panel or Wireless Remote.
2. From the Wireless Remote home screen, tap **Settings > Advanced System Configuration > System > Firmware Update**.
3. The Firmware Update screen will display. Tap **Update from USB**.
4. The Select Firmware File for Update screen will display. Locate the desired .pfw file and tap to begin the update.
5. **Update the System Firmware:** Place the Wireless Remote in the cradle and insert the USB device into the cradle. The USB device will be detected. The latest firmware will be copied onto the Wireless Remote. To view the firmware version, from the Home screen, tap **Settings > Advanced System Configuration > System** to view the Firmware version displayed on the System Information button.



CONTROL SYSTEM MENU TREE

HOME SCREEN

- **Pool Screen**
- **Spa Screen**
- **Features** (Individual/Groups)
- **Lights** (Individual/Groups)
- **Schedules** (Weekly, One Time Only, Schedule)
- **Usage**
- **Chemistry** (Chemical Controller / SCG)
- **Status**
- **Settings:** Refer below for Settings menu.

SETTINGS MENU

- **Service Mode**
- **Vacation Mode**
- **Support**
- **General:** Location, Date & Time, Temperature Units, Features and Lights List Order, General List Order, Backlight (wireless control panel only), Temperature Sensor Calibration, Day/Night Themes, Manual Operation Priority, Manual Heat, Chemistry Readings, Badge Colors.
- **Alerts and Notifications:** Choose which system status, alerts and warnings badges to display on the Home screen Status icon.
- **Security** (Password Protect)
- **Pentair User Portal** (www.intellicenter2.com)
- **Groups:** Configure groups of AUX circuits, Light circuits and Feature circuits.
- **Reboot This Panel**
- **Advanced System Configuration:** Refer below for Advanced System Configuration menu.

ADVANCED SYSTEM CONFIGURATION MENU:

- **Installation Setup:** Body Configuration, Circuits, Pumps, Heaters, Valves, Chemistry, Pool/Spa Cover
- **Remotes Setup:** iS4, QuickTouch II, iS10, SpaCommand
- **Network and WiFi Setup:** Configure Ethernet, Connect to a Wireless Network, Internet Connection Test, Reboot Wireless Device.
- **IntelliCenter Wireless Remote Setup:** Configure the Address and Panel # for a wireless remote.
- **Delays:** Valve Delay, Heater Cool Down, Freeze Cycle Time, Spa Freeze Override, Override Delays.
- **System:** System Information, Detected Hardware, System Diagnostic Information, Firmware Update, Factory Diagnostics.
- **Import/Export:** Import System Configuration, Export System Configuration.
- **Restore Factory Defaults:** Restore system to factory configuration.
- **Wizard:** Step-by-step system configuration. Refer to *Setup Wizard Navigation*, page 36 for more information.

NOTES

NOTES



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