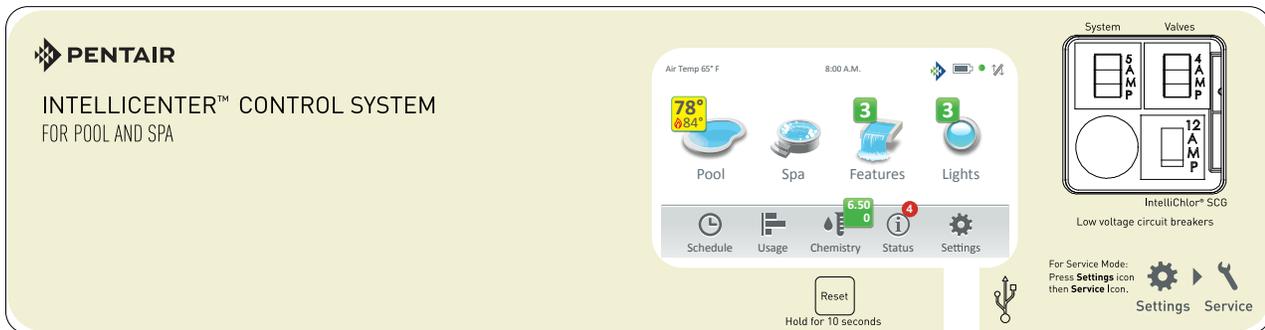




EASYTOUCH® / INTELLITOUCH® CONTROL SYSTEM UPGRADE TO INTELLICENTER™ CONTROL SYSTEM (For Legacy Systems 2003-2012)



INSTALLATION GUIDE

IMPORTANT SAFETY INSTRUCTIONS
READ AND FOLLOW ALL INSTRUCTIONS
SAVE THESE INSTRUCTIONS

CUSTOMER SERVICE / TECHNICAL SUPPORT

Customer Service
 8 AM to 5.30 PM — Eastern and Pacific Times
 Phone: (800) 831-7133
 Fax: (800) 284-4151
 www.pentair.com

Technical Support
 Sanford, North Carolina (8 A.M. to 8.30 PM ET)
 Phone: (919) 566-8000
 Fax: (919) 566-8920
 Moorpark, California (8 A.M. to 5.30 PM PT)
 Phone: (805) 553-5000 (Ext. 5591)
 Fax: (805) 553-5515

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 CONNECTING AND CONFIGURING POOL AND SPA EQUIPMENT 9
 INSTALLING THE WIRING LABEL ON THE ENCLOSURE FRONT DOOR 10
 NOTE: INSTALLING THE HIGH POWER WIRELESS (HPW) KIT ANTENNA
 (see manual provided in HPW Link box)

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. If this system is used to control underwater lighting fixtures, a ground-fault 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 in accordance with the current National Electrical Code (NEC), NFPA 70 or the Canadian Electrical Code (CEC), CSA C22.1. 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. (3.05 m) from the inside wall of the pool.
6. GAS HEATER: This automation control system is designed to supply high voltage (120 VAC / 240 VAC) to a gas heater and override the thermostat in the heater's control circuit. This automation control system is intended to control gas heaters with a high temperature limit switch(s) safety circuit.

IMPORTANT WARNING AND SAFETY INSTRUCTIONS

READ AND FOLLOW ALL WARNING AND SAFETY INSTRUCTIONS



SERIOUS BODILY INJURY OR DEATH CAN RESULT IF THIS PRODUCT (UNIT) 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 Water Pool and Spa, Inc. (“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.



This guide provides installation and operation instructions for the IntelliCenter™ Control System. Consult Pentair Water Pool and Spa, Inc. with any questions regarding this equipment (see “Customer Service/Technical Support”, page ii).



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 manual contains important information that will help you in operating and maintaining this filter. Please save it for future reference.



Attention User: This Guide contains important information that will help you in operating and maintaining this product. Please retain it for future reference. Read the entire Installation Guide and all related warning labels before installing this product or attempting to use, service or adjust the IntelliCenter® Control System. Read the operating instructions and warnings for all equipment in the pool circulating 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.

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.



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, CAUTION and NOTICE and comply with the information. Be alert to the potential hazard. Ensure to read and comply with all of the warnings and cautions in this manual.

NOTICE



Risk of Electrical Shock or Electrocution!



- Always disconnect power at the circuit breaker before servicing the load 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 pool professional in accordance with the current National Electrical Code (NEC), NFPA 70 or the Canadian Electrical Code (CEC), CSA C22.1. 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.

IMPORTANT WARNING AND SAFETY INSTRUCTIONS

⚠ DANGER



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.

⚠ WARNING

A pool or spa pump must be installed by a qualified pool and spa service professional in accordance with the current National Electrical Code and all applicable local codes and ordinances. Improper installation may 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.

⚠ 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

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 five (5) feet (1.52 m) away, adjacent to, and within sight of, the unit.

⚠ WARNING

Except for listed spa-side remote controls, install a minimum of five (5) feet (1.52 m) from the inside wall of the pool and spa.

⚠ WARNING

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), NFPA 70 or the Canadian Electrical Code (CEC), CSA C22.1. 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 five 5ft. (1.52 m), (Canada 3 m (9.75 ft) from the inside wall of the pool.

⚠ WARNING

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

For information about the Virginia Graeme Baker Pool and Spa Safety Act, contact the Consumer Product Safety Commission at (301) 504-7908 or visit www.cpsc.gov.

NOTE: Always turn off all power to the pool pump before installing the cover or working on any suction outlet.

Two Speed Pump Controls Notice (Title 20 Compliance)

Please read the following important Safety Instructions - When using two-speed pumps manufactured on or after January 1, 2008, the pump's default circulation 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.

IMPORTANT WARNING AND SAFETY INSTRUCTIONS



FCC Regulatory Safety Notice

FCC non-modification statement:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

FCC RF Exposure requirements:

Notice for High Power Wireless Link (FCC ID: 2AHWAQTSHPWETH -

HVIN/MODEL: HPW-WETHLINK: In order to comply with FCC/ISED RF Exposure requirements, a minimum separation distance of 8 in (20 cm) must be maintained between the equipment and all persons during normal operation.

Exigences de la FCC en matière d'exposition aux fréquences radio:

Remarque: pour lien sans fil haute puissance (FCC ID: 2AHWAQTSHPWETH -

HVIN/MODEL: HPW-WETHLINK: Afin de respecter les exigences d'exposition RF de la FCC / ISED, une distance minimale de 20 cm doit être respectée entre l'appareil et toutes les personnes en fonctionnement normal.

Canada - Innovation, Science and Economic Development (ISED)

(ISED: 21176-QTSHPWETH): The Control System and the High Power Wireless (HPW) Link complies with RSS210 of ISED Canada (2019). 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.

This Class B digital apparatus complies with Innovation, Science and Economic Development (ISED) 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 Innovation, Science and Economic Development (ISED) Canada. 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.

Cet appareil numérique de classe B est conforme à la norme canadienne ISDE (RSP-100, section 2.1) et Terminal Equipment Registrations (DC-01, Section 3.). Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada. Le terme «ISED» précédant le numéro de certification / d'enregistrement signifie uniquement que les spécifications techniques relatives à l'innovation, à la science et au développement économique ont été respectées.

FCC Regulatory Notice - 47 CFR Part 15, Subpart C

Instruction to User: This equipment has 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 harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful 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.

Industry Canada (IC) Regulatory Notice – RSS210:

Instruction To User: This device complies with RSS210 of Innovation, Science and Economic Development Canada (ISED). Under ISED regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by ISED. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication. This device complies with Innovation, Science and Economic Development Canada licence-exempt RSS standard(s). 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.

Conformément à la réglementation d'Innovation, Sciences et Développement Économique Canada (ISED), le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par ISED. Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante. Le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement Économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Pentair Water Pool and Spa IMPORTANT SAFETY INSTRUCTIONS

For Installation of Electrical Controls at Equipment Pad (ON/OFF Switches, Timers, and Automation Control Systems)

WARNING



Install all electrical controls at equipment pad, such as on/off switches, timers, and control systems, etc. to allow the operation (start-up, 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.

CAUTION



CAUTION! INSTALL POWER CENTER TO ALLOW USER ENOUGH SPACE TO STAND CLEAR OF PUMP AND FILTER WHEN SERVICING.

WARNING



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

Qualifications for Installers and Users

This product must be installed by a qualified pool technician in accordance with all applicable local codes and ordinances. It must be serviced by someone who fully understands its operation. Improper installation or servicing could result in death or serious injury to pool users, installers, servicers, or others and may also cause damage to property.

If you are not familiar with your pool filtering system and/or heater, do NOT attempt to adjust or service without consulting your dealer or a qualified pool technician.

Do not permit children to use this product.

EasyTouch® and IntelliTouch® Control System Legacy Upgrade Installation Kits

Overview

This manual describes how to upgrade an EasyTouch or IntelliTouch Control System to the IntelliCenter® Control System.

The upgrade Installation Kits apply to the following:

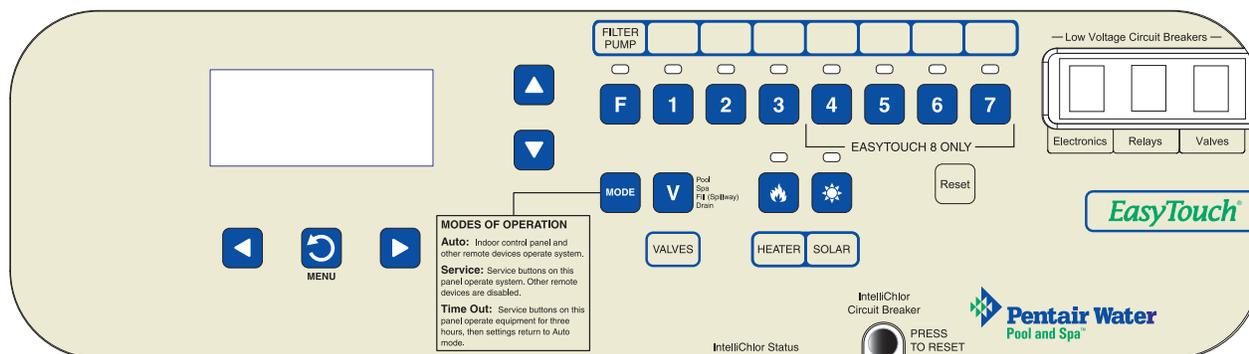
- Legacy Systems: EasyTouch® PL4/PSL4 Control Systems, EasyTouch® Control Systems
- IntelliTouch® Control Systems
- Legacy Systems: 2003 to 2012 (horizontal low circuit voltage breaker configuration, see EasyTouch/IntelliTouch Outdoor control Panel below)
 - P/N 522045 for i10P
 - P/N 522046 for i10PS
 - P/N 523218 for i10D
 - P/N 523530 for i10X
- System must be marked as UL listed/certified

IntelliCenter Control System Outdoor Control Panel



IntelliCenter Control System Outdoor Control Panel for EasyTouch or IntelliTouch Load Center or Power Center

Legacy EasyTouch or IntelliTouch Control System Outdoor Control Panel



EasyTouch or IntelliTouch Control System Outdoor Control Panel using the 2003-2012 Load or Power Center with horizontal low voltage configuration circuit breakers (with optional SCG reset button)

IntelliCenter® Control System Installation Instructions Summary

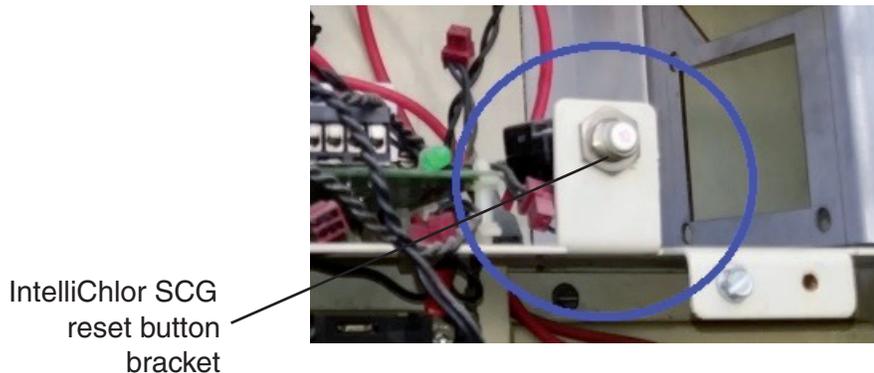
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INSTALL THE NEW 4A AND 5A LOW VOLTAGE CIRCUIT BREAKERS BRACKET AND SYSTEM TRANSFORMER	6
INSTALLING THE INTELLICENTER CONTROL SYSTEM OUTDOOR CONTROL PANEL	8
CONNECTING AND CONFIGURING POOL AND SPA EQUIPMENT	9
INSTALLING THE WIRING LABEL ON THE ENCLOSURE FRONT DOOR	10

Note: INSTALLING THE WIRELESS ANTENNA KIT. See IntelliCenter Control System Installation Guide.

CAUTION: If there are EasyTouch or IntelliTouch Control System installed accessories, such as an Indoor Control Panel or Wireless Remote, they will no longer function after installing the IntelliCenter Control System Upgrade Kit. In addition to the free IntelliCenter Control System phone app, the following optional accessories can also be purchased.

- IntelliCenter Indoor Control Panel, White Faceplate - P/N 522035
- IntelliCenter Indoor Control Panel, Tan Faceplate - P/N 523058.
- IntelliCenter Indoor Control Panel, Black Faceplate - P/N 523059.
- IntelliCenter Wireless Remote with Transceiver -P/N 522036.

CAUTION: For existing EasyTouch® Control Systems that have an IntelliChlor® SCG reset button bracket, the IntelliCenter Control System upgrade cannot be applied to the current system.

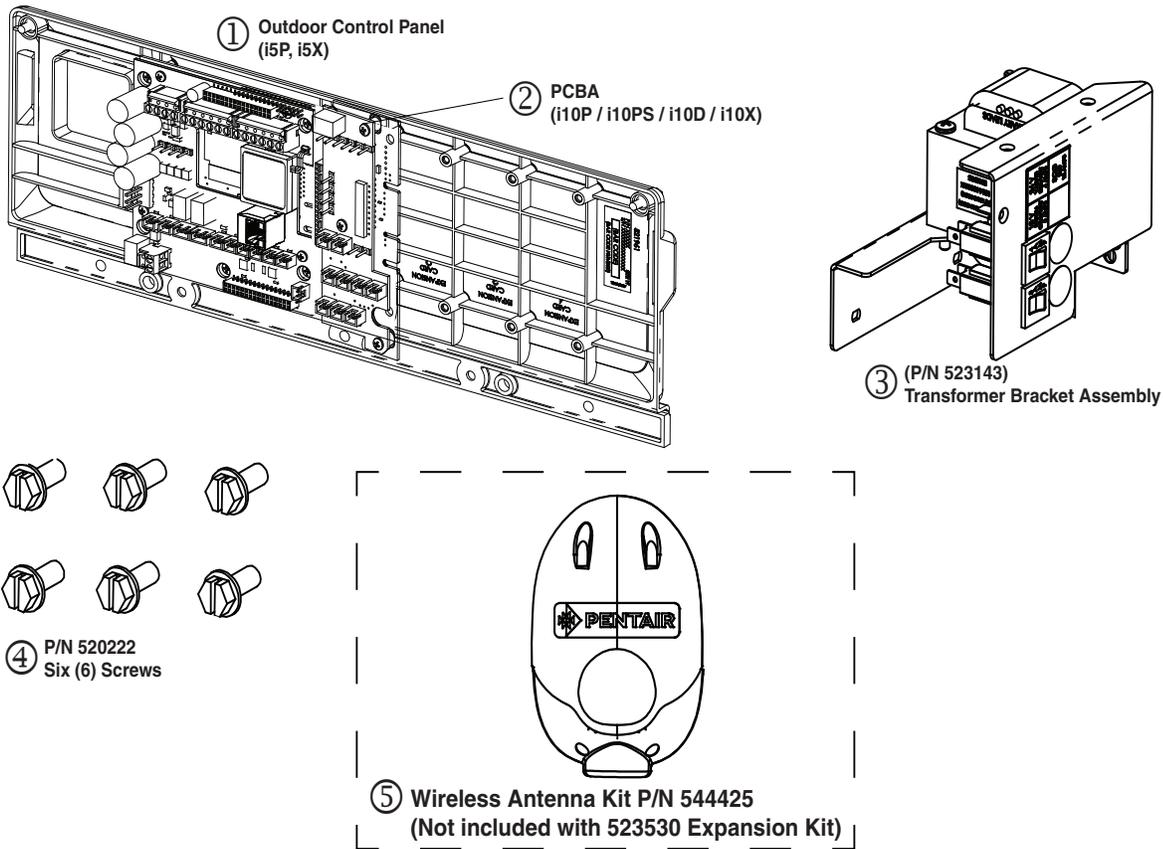


Required Tools:

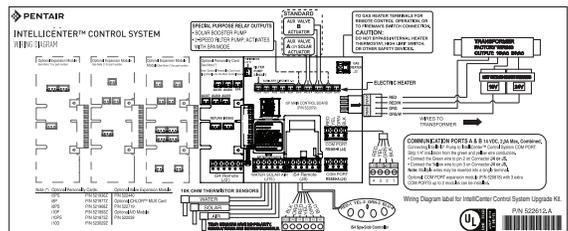
- Medium size flat blade screwdriver or 1/4" and 5/16" socket

BOX CONTENTS

Legacy Kit P/N 522045, 522046, 523218, 523530



1. Kit P/N 522045, 522046, 523218: P/N 521938, i5P Outdoor Control Panel.
Kit P/N 523530: P/N 522029, i5X Outdoor Control Panel.
2. Kit P/N 522045: P/N 521993Z, i10P Personality Board, Shared Equipment.
Kit P/N 522046: P/N 521873Z, i10PS Personality Board, Shared Equipment.
Kit P/N 523218: P/N 523029Z, i10D Personality Board, Shared Equipment.
Kit P/N 523530: P/N 522997Z, i10X Expansion Board, Shared Equipment.
3. P/N 523143, Transformer Bracket Assembly
4. P/N 520222, Six (6) screws
5. P/N 544425, Wireless Antenna Kit (not included with 523530 expansion kit).
6. P/N 522612, Wiring Label, IntelliCenter Control System
 - IntelliCenter Control System manuals (not shown):
 - Installation Guide (P/N 522989)
 - User's Guide (P/N 522990)
 - Quick Reference Guide (P/N 522988)
 - WiFi Remote Installation Guide (P/N 523350)
7. Kit P/N 522062Z, Transformer 24VAC 18VAC IntelliCenter Control System (sold separately)
8. Kit P/N 523342Z Transformer Bracket, IntelliCenter Control System (sold separately)



6. Wiring Label, IntelliCenter Control System

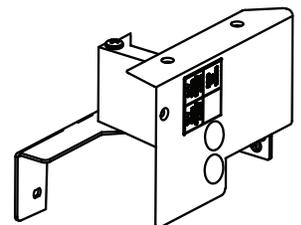
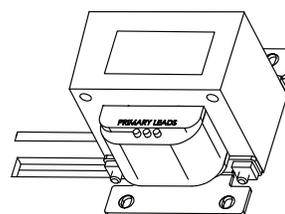


Figure 1. IntelliCenter® Control System Legacy Upgrade Kit Contents

Removing the Existing Outdoor Control Panel

The following upgrade installation instructions are for **EasyTouch® PL4/PSL4, EasyTouch or IntelliTouch Control Systems** using the 2003-2012 (horizontal low voltage circuit breakers configuration on bezel) Load Center or Power Center.

WARNING!
RISK OF ELECTRICAL SHOCK. BEFORE REMOVING THE HIGH VOLTAGE COVER PANEL FROM THE ENCLOSURE SWITCH OFF THE MAIN POWER AT THE HOME AT THE MAIN CIRCUIT BREAKER BOX.

1. TURN OFF POWER TO ALL POOL AND SPA EQUIPMENT BEFORE STARTING. CAUTION! DO NOT PLUG IN OR UNPLUG ANY SYSTEM COMPONENTS WITH THE POWER ON. THIS MAY DAMAGE THE SYSTEM COMPONENTS.
2. Unlatch the front door latch. Open the door of the Load Center or Power Center.
3. Remove the two screws securing the High Voltage Cover Panel. Remove the panel and set aside.
4. Loosen the two retaining screws securing the existing control panel. Fold down the panel to access the circuit board low voltage connections and transformer connector.

Continue to next page

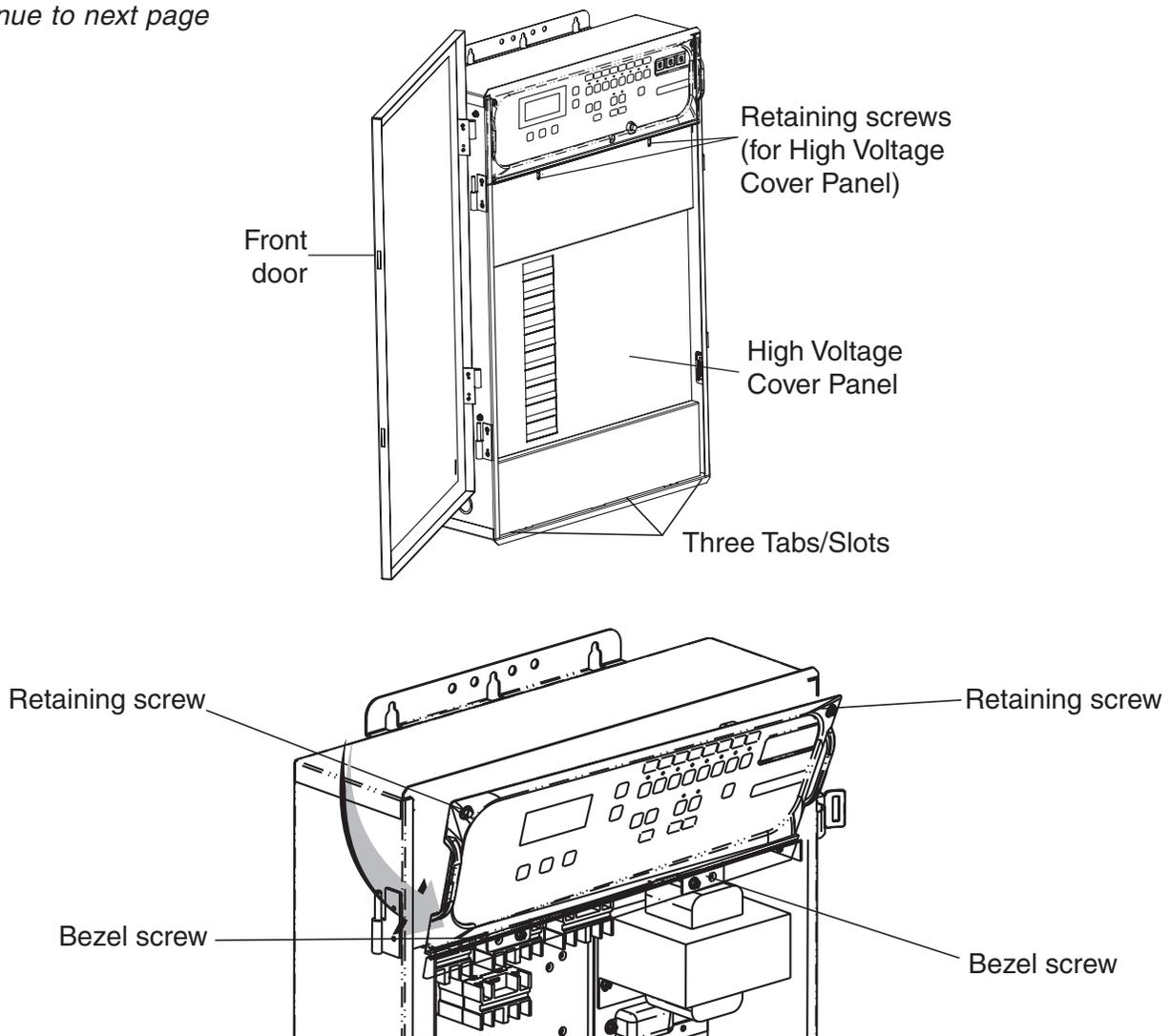


Figure 2. Load Center or Power Center (2003-2012)

Removing the Existing Outdoor Control Panel (Continued)

5. Disconnect the transformer connector from the existing Outdoor Control Panel circuit board.
6. Disconnect all other connections from the existing Outdoor Control Panel circuit board.

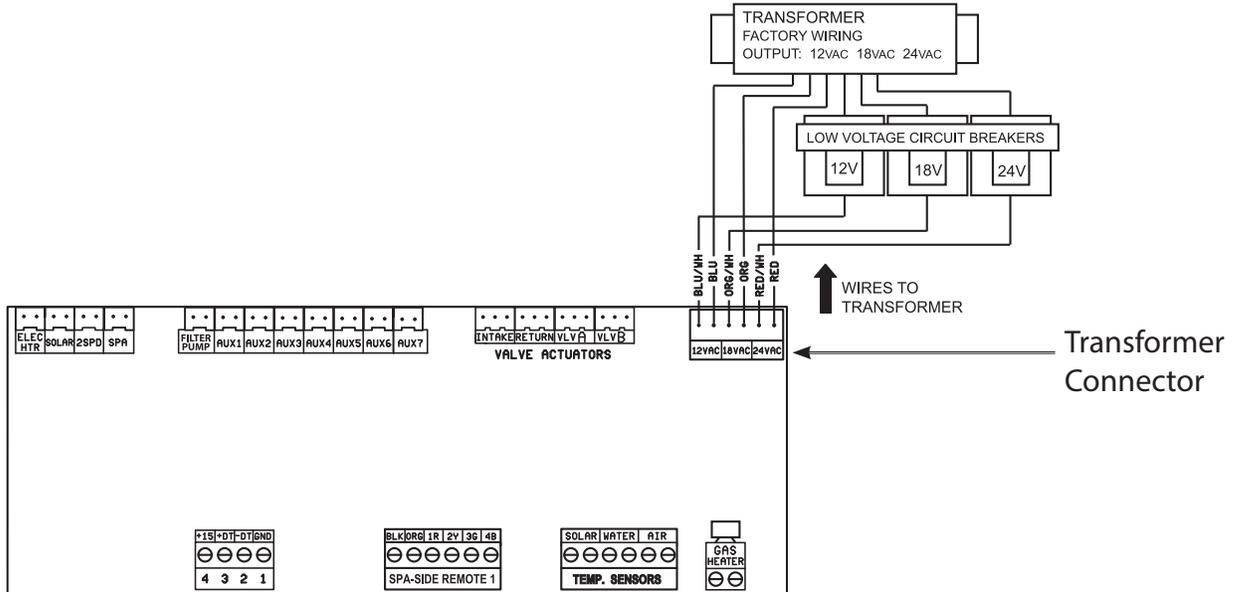


Figure 3. Transformer Connector

7. Remove the two screws securing the outdoor control panel bezel. Remove the outdoor control panel and bezel from the enclosure. See Figure 2 on page 4.

Install the new 4A and 5A Low Voltage Circuit Breakers Bracket and System Transformer

Remove the existing circuit breakers and system transformer breaker bracket:

1. **Remove the circuit breakers and bracket with transformer:** Remove the two side screws on the side of the enclosure, and the screws on the back of the enclosure securing the circuit breaker bracket. See Figure 4. Discard the existing system transformer.
2. Remove the bracket with the circuit breakers and transformer from the enclosure.

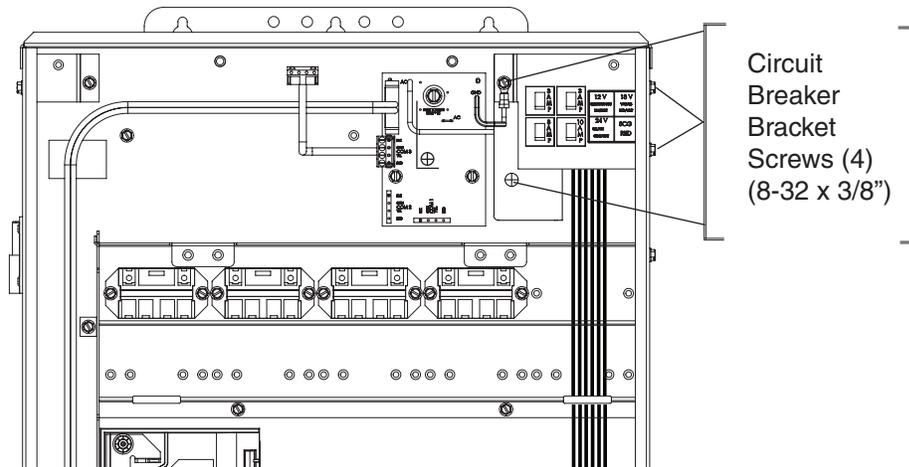


Figure 4. Circuit Breaker Bracket

Install the IntelliCenter® Control System bracket ((3), P/N 523143), with the attached 5AMP and 4 AMP circuit breakers with the system transformer.

3. Route the primary wires from the IntelliCenter Control System transformer through the wire channel toward the main system circuit board.
4. Install the circuit breaker bracket with the circuit breakers and system transformer onto the enclosure, and secure it with two side screws and two screws on the back of the enclosure. See Figure 5 on page 7.
5. Wire the System Transformer to the main Load Center or Power Center circuit breaker. See Figure 6 on page 7.

Install the new 4A and 5A Low Voltage Circuit Breakers Bracket and System Transformer (Continued)

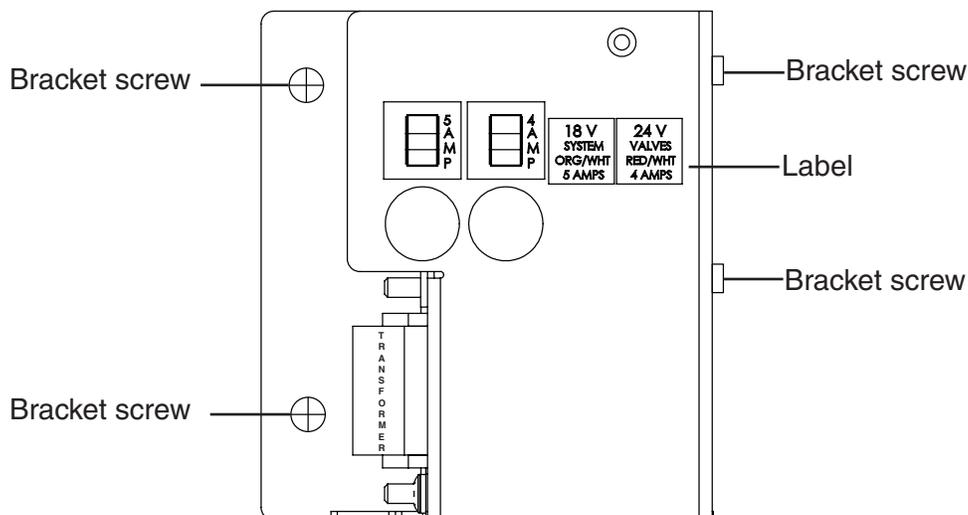
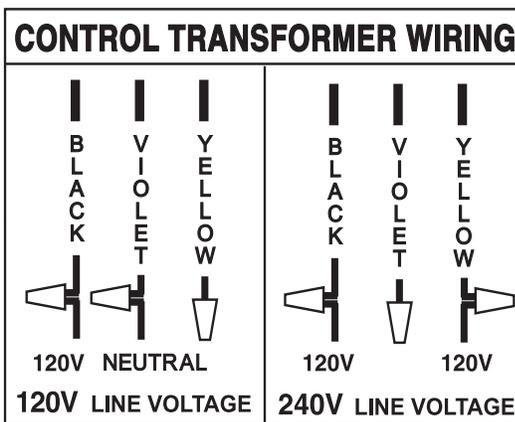
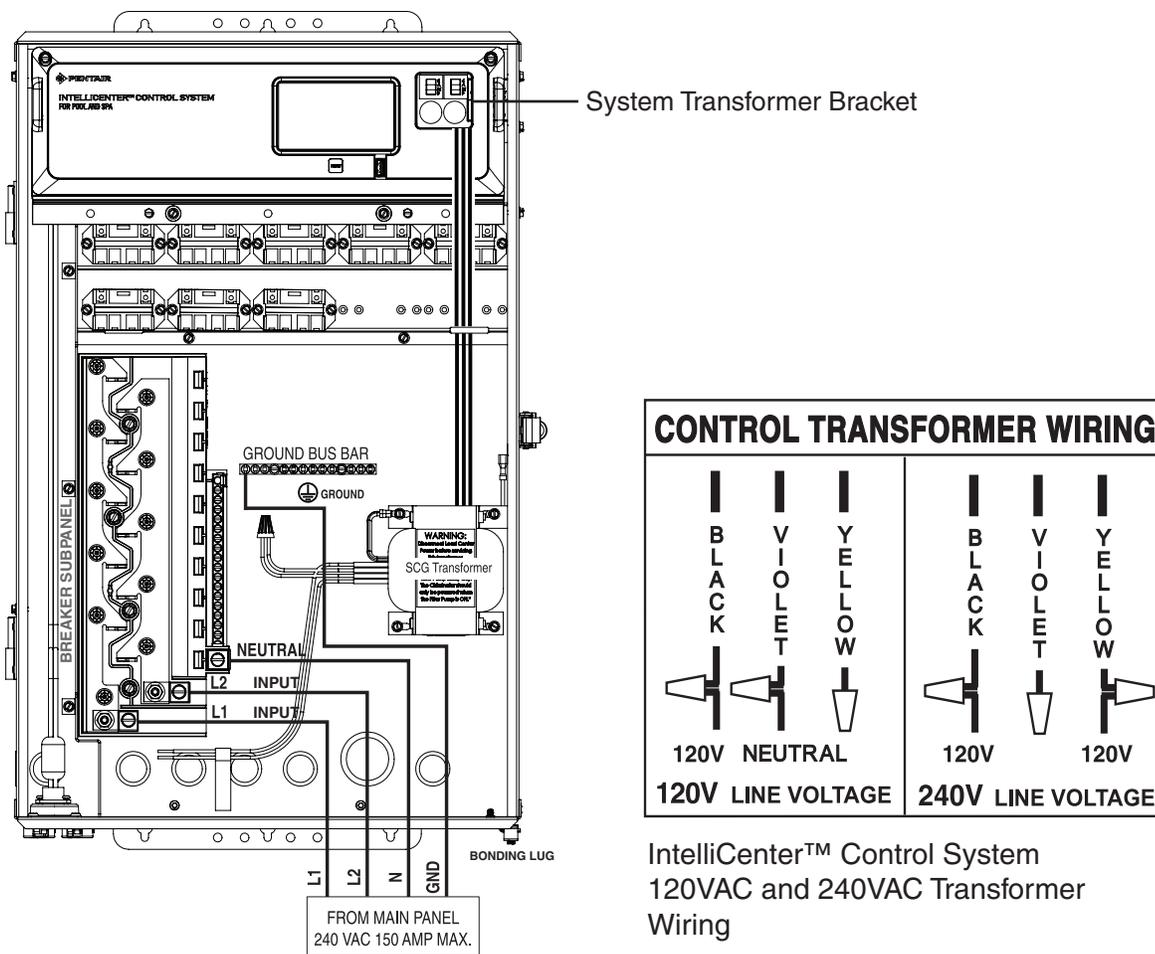


Figure 5. Transformer Bracket Assembly



IntelliCenter™ Control System
120VAC and 240VAC Transformer
Wiring

Figure 6. Wiring the System Transformer

Installing the IntelliCenter® Control System Outdoor Control Panel

1. **Install the IntelliCenter Outdoor Control Panel (1) and Bezel:** Mount the Outdoor Control Panel and bezel onto the enclosure. Install the two screws to secure the bezel (2) to the enclosure.

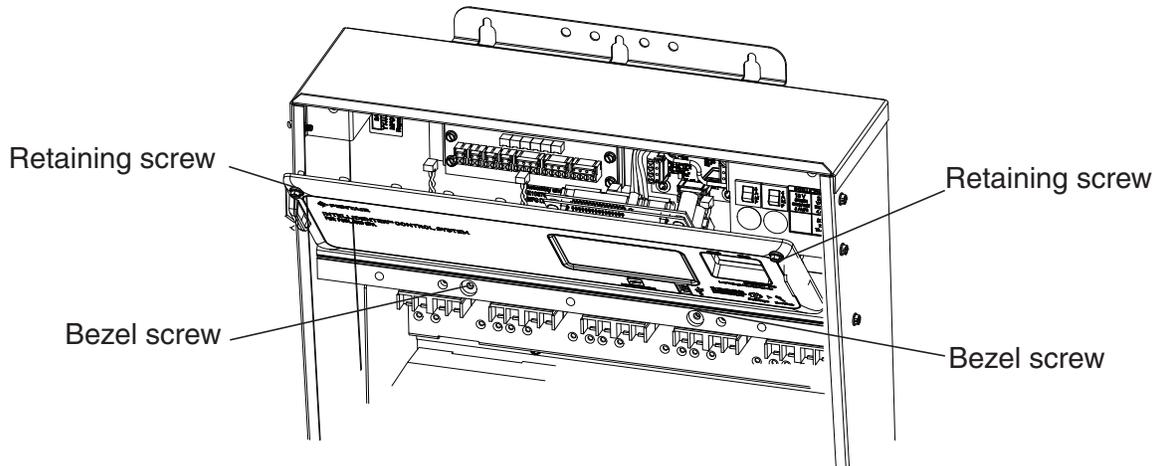


Figure 7. IntelliCenter Control System Outdoor Control Panel

2. Connect the Transformer connector to the IntelliCenter™ Control System main motherboard. See Figure 8.
3. Reconnect all of the low voltage connections on the main circuit board. See Figure 9 on page 9.
4. Secure the control panel bezel to the enclosure with the two retaining screws. See Figure 7.

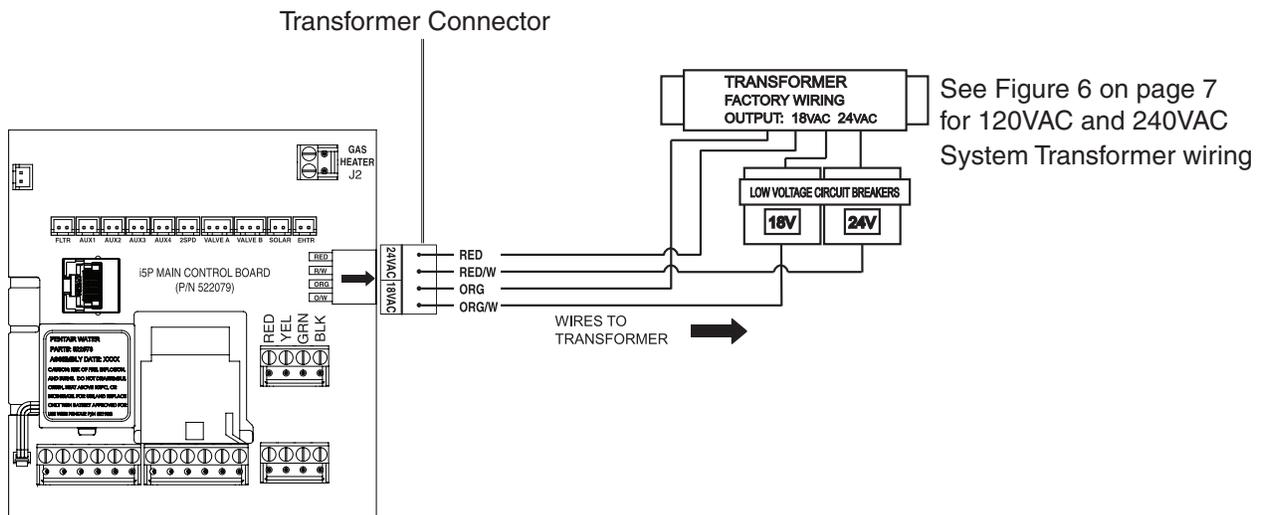


Figure 8. Wiring the System Transformer and Circuit Breakers to Outdoor Control Panel Motherboard

Connecting and configuring pool and spa equipment

Please refer to the IntelliCenter® Control System Installation Guide (P/N 522989) and the IntelliCenter Control System User's Guide (522990) for the following information:

- **Connecting the System Transformer (and SCG transformer option if installed) to the IntelliCenter Outdoor Control Panel main circuit board**
- **Connecting high and low voltage pool and spa equipment (pump, heater, spa side remote etc.) to the IntelliCenter Outdoor Control Panel main circuit board.**
- **Configure the IntelliCenter Outdoor Control Panel hardware using the Setup Wizard.**
- After all electrical connections have been completed, close the Outdoor Control Panel and tighten the two retaining screws. Reinstall the High Voltage Panel: Insert the panel's three tabs into the lower slots on the enclosure. Secure the panel with the two retaining screws. See Figure 2 on page 4.

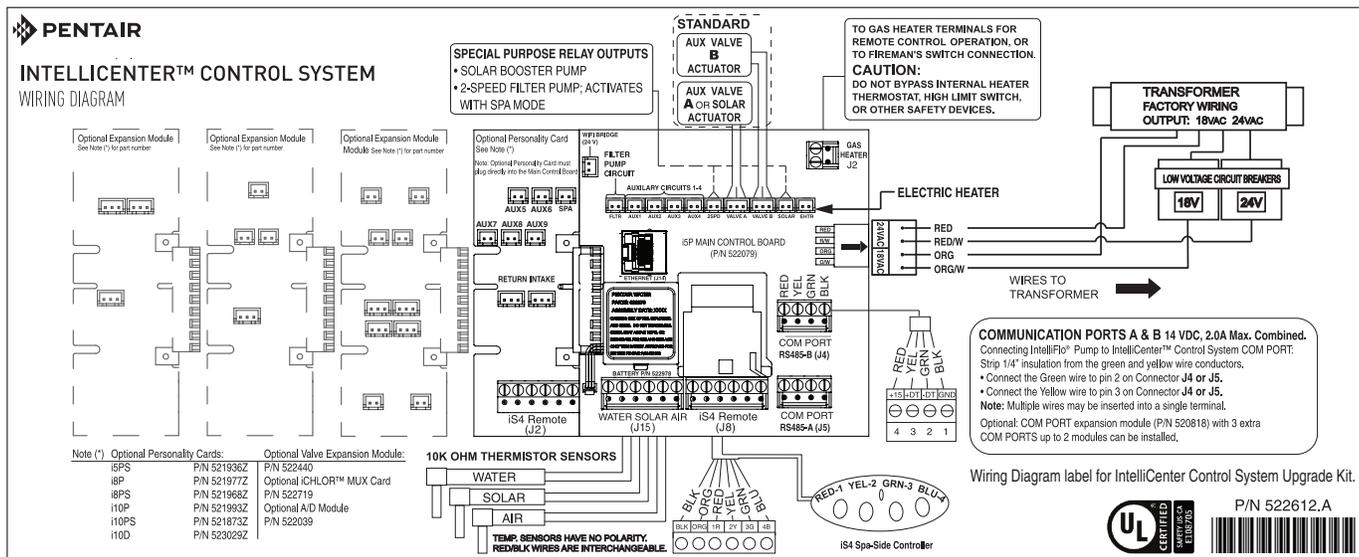


Figure 9. IntelliCenter Control System Circuit Board (with optional Expansion Boards shown)

Installing the Wiring Label on the Enclosure Front Door

1. Remove the backing from the wiring label.
2. Affix the wiring label ((7), P/N 522612) onto High Voltage Cover panel. See Figure 10.
3. Close the front door and secure with the latch.
4. Switch ON AC POWER to the load center at the circuit breaker.

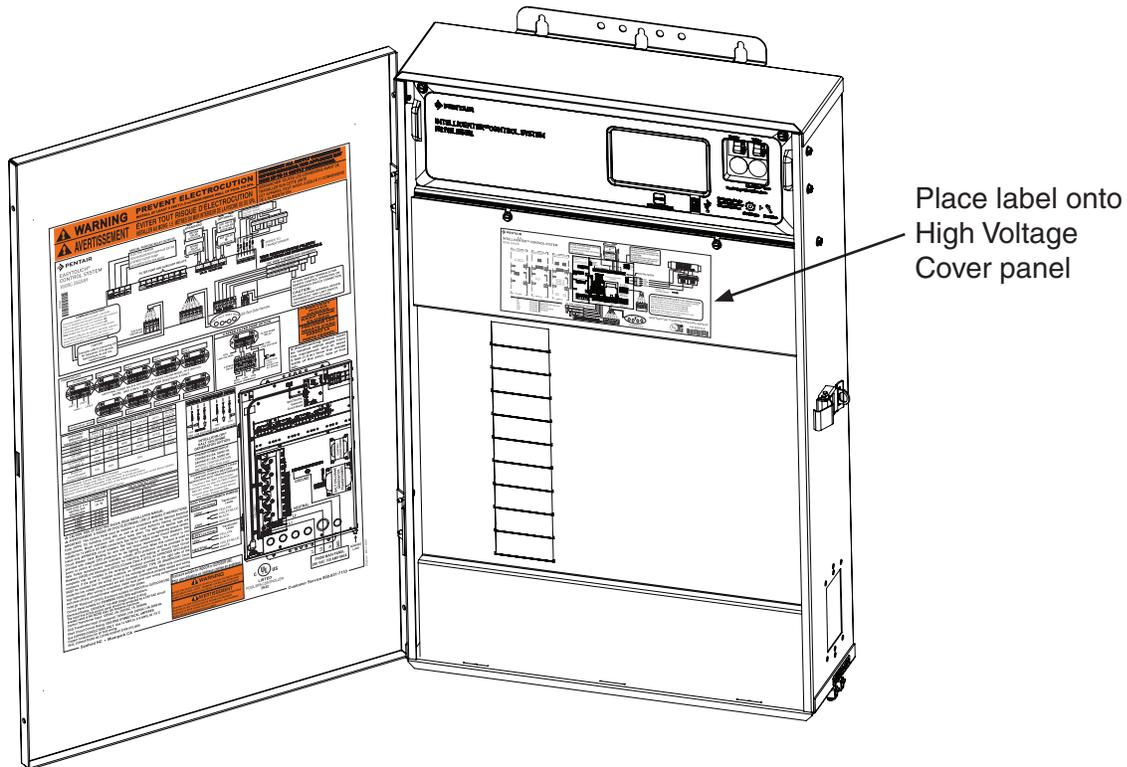


Figure 10. Load Center (Legacy 2003 - 2012)

Notes

Notes

Notes



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