

CHROMAZONE™

Installation Guide

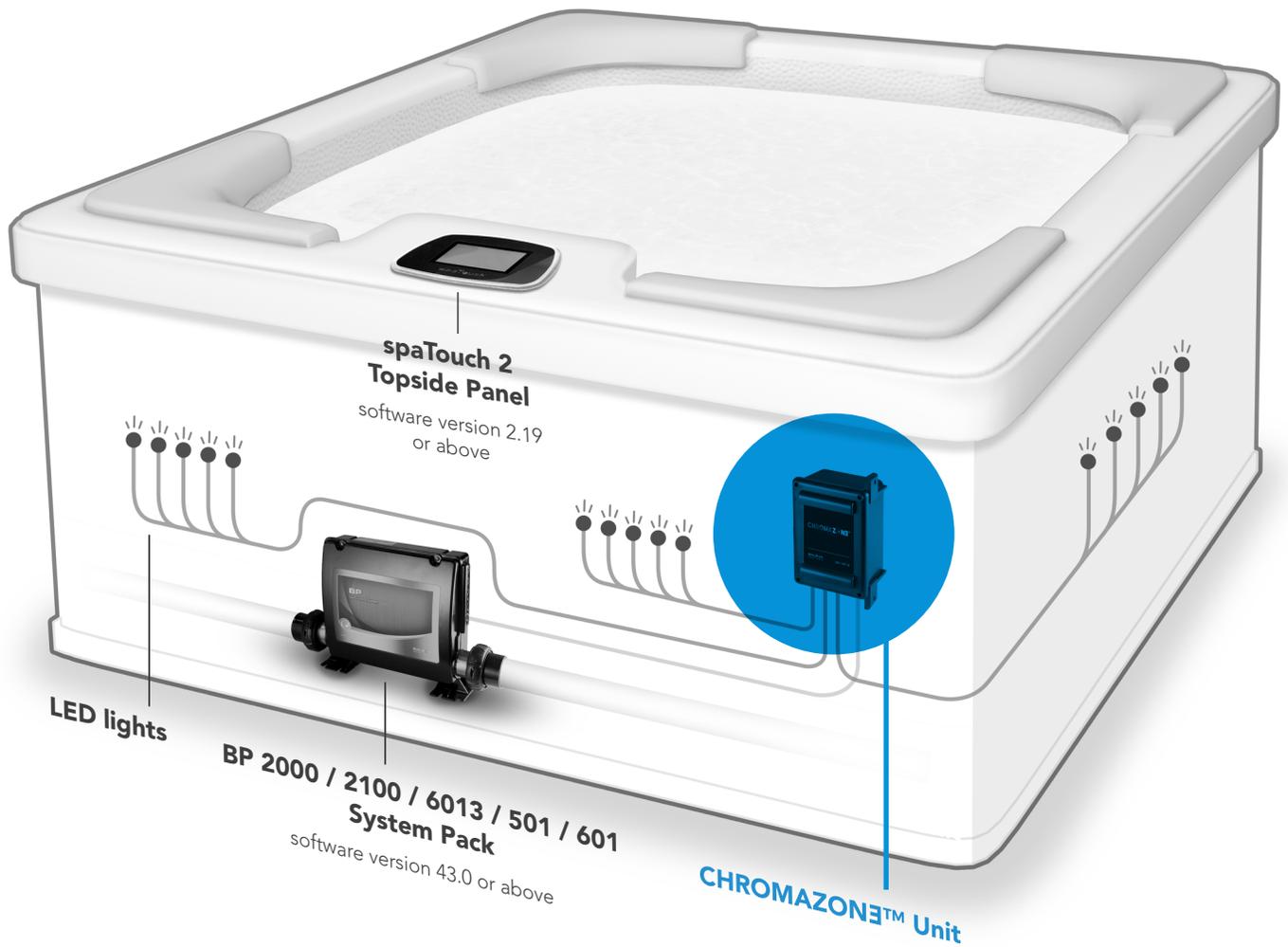




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FOR MORE INFORMATION

Visit us online: www.balboawatergroup.com/Chromazon3

HARDWARE DIAGRAM

ZONE | ZONE

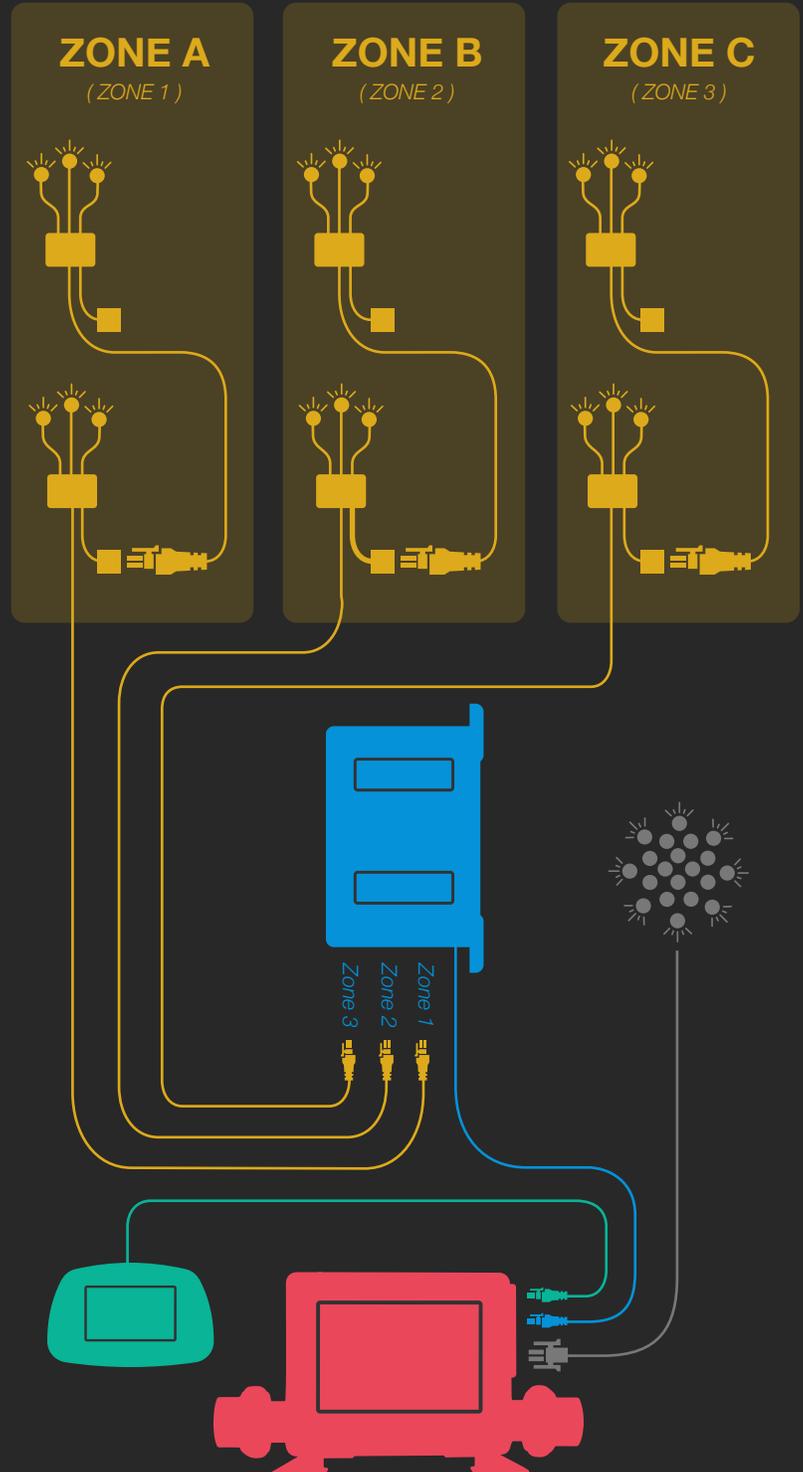
The CHROMAZON³™ unit has three light connectors. They are named "Zone 1," "Zone 2," and "Zone 3" on the circuit board. All LED lights connected to the "Zone 1" connector are a single zone. This zone is called "Zone 1" on the CHROMAZON³™ unit circuit board, and it is called "Zone A" on the topside panel. The names "Zone 1" and "Zone A" refer to the same group of lights. The same applies to Zone 2 (Zone B) and Zone 3 (Zone C).

SYSTEM PACK COMPATIBILITY

CHROMAZON³™ is compatible with BP 2000/2100/6013/501/601 system packs with software version 43.0 or above.

TOPSIDE PANEL COMPATIBILITY

CHROMAZON³™ is compatible with spaTouch 2 topside panels with software version 2.19 or above.



CHROMAZON³™ UNIT



CHROMAZON³™ LED LIGHT



SPATOUCH 2 TOPSIDE PANEL



BP SYSTEM PACK



OTHER LIGHTS



HARDWARE DIAGRAM

LED LIGHTS

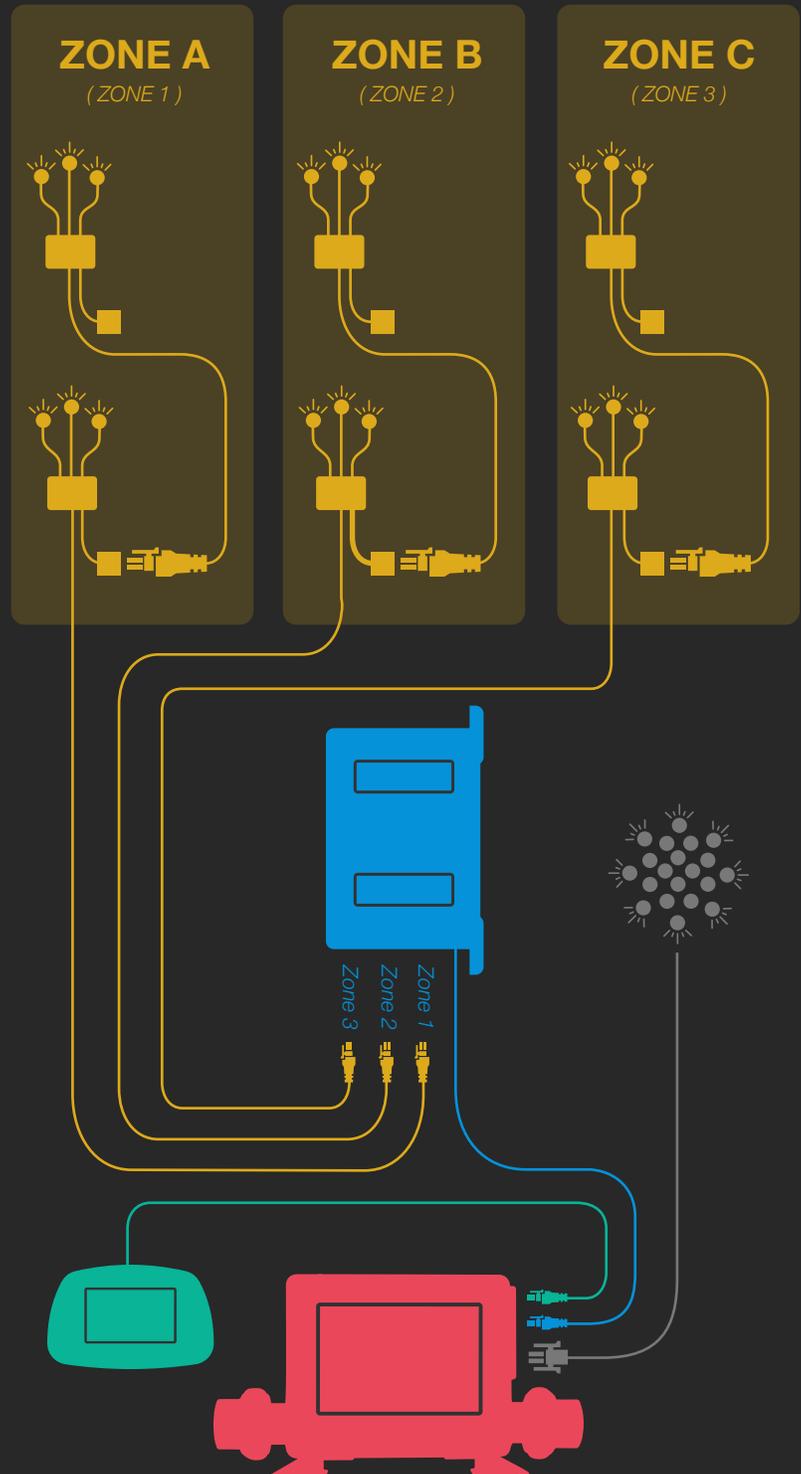
Only connect LED lights to the CHROMAZON3™ unit. One or more LED light strings can be connected to a single light connector.

ELECTRICAL SPECIFICATIONS FOR ALL LIGHTS CONNECTED TO CHROMAZON3™

The total amperage draw of all LED lights plugged into all three zones cannot exceed 1.6A at 12V or 2.8A at 5V. The voltage rating has to match on all LED lights. If Zone 1 has 5 volt lights, Zone 2 and Zone 3 require 5 volt lights.

ELECTRICAL SPECIFICATIONS FOR ALL LIGHTS CONNECTED TO THE BP SYSTEM PACK

The total amperage draw of CHROMAZON3™ and any other lighting powered by the BP system pack should not exceed a total of 2A at 10V.



CHROMAZON3™ UNIT



CHROMAZON3™ LED LIGHT



SPATOUCH 2 TOPSIDE PANEL



BP SYSTEM PACK



OTHER LIGHTS



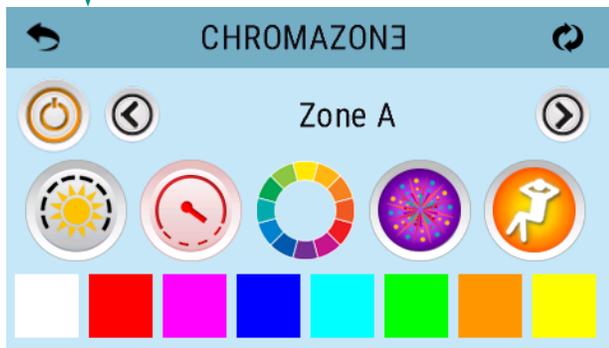
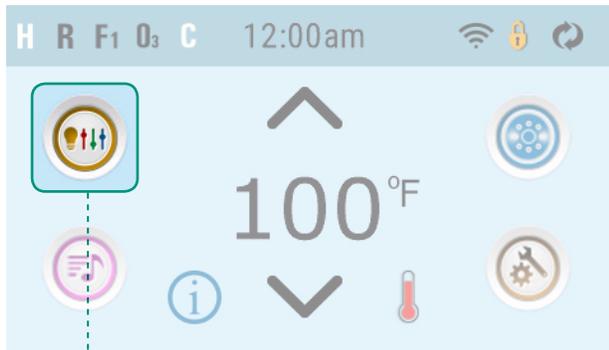
TOPSIDE PANEL NAVIGATION



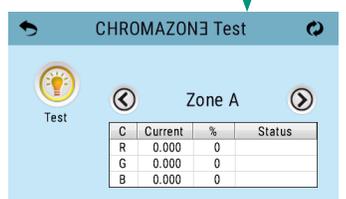
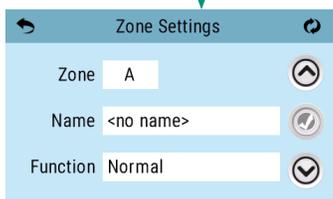
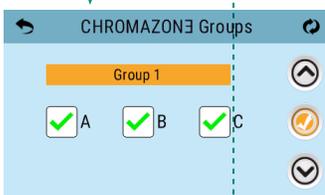
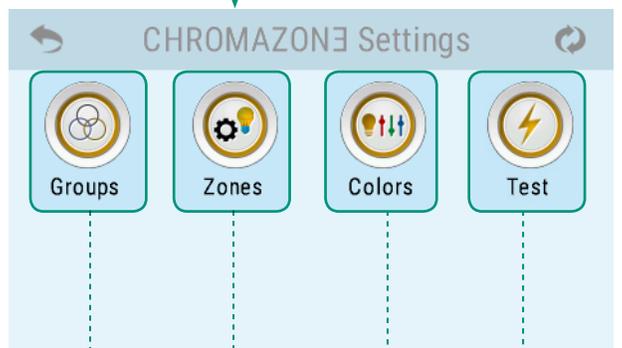
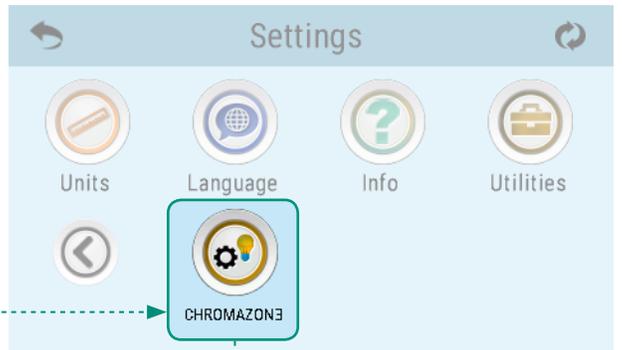
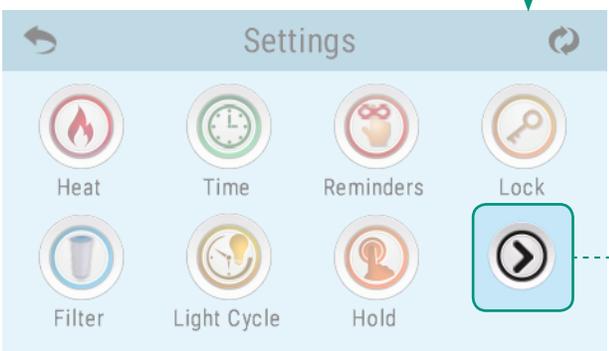
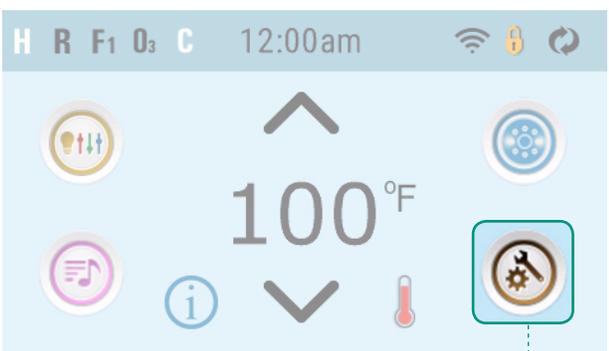
spaTouch 2 Topside Panel

On some spaTouch 2 panels, the color, look, or organization of the buttons may differ from what is shown in this User Guide.

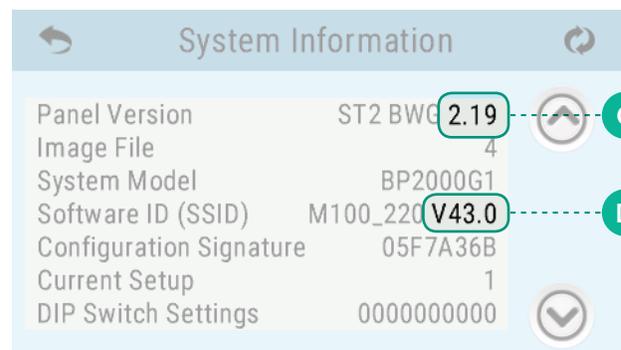
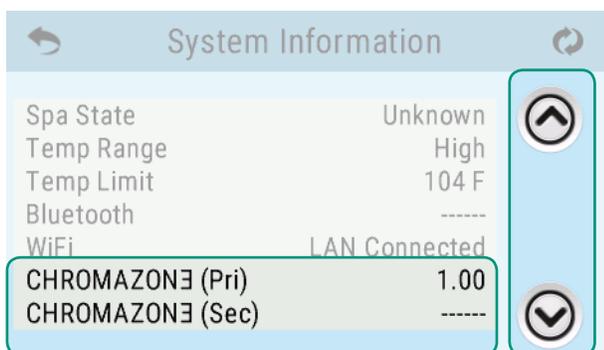
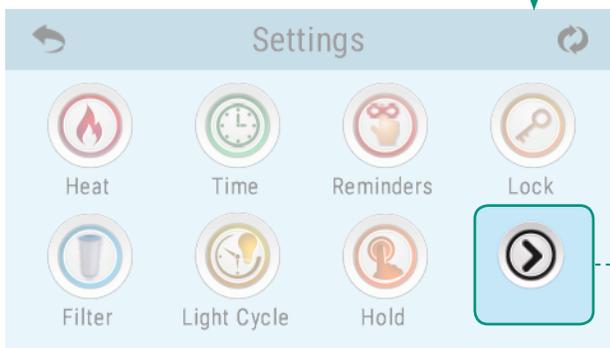
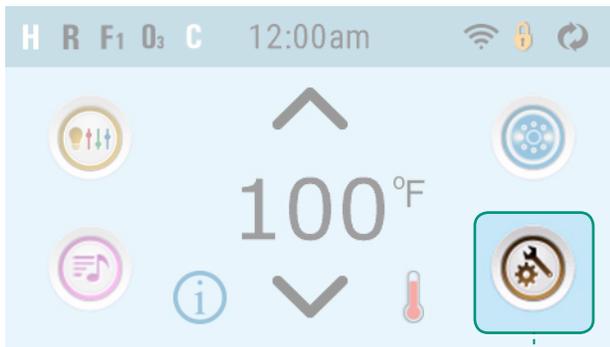
Navigate to the CHROMAZONE™ screen.



Navigate to CHROMAZONE™ Settings



Navigate to the System Information screen.



A

B

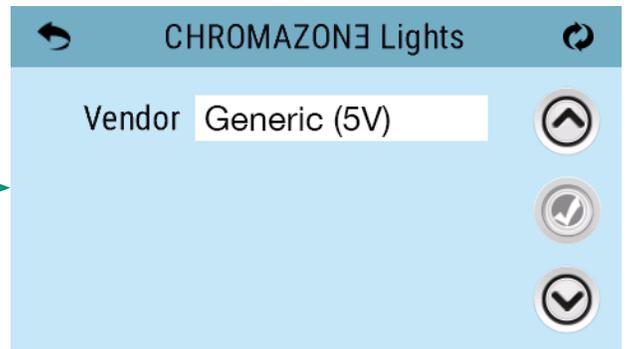
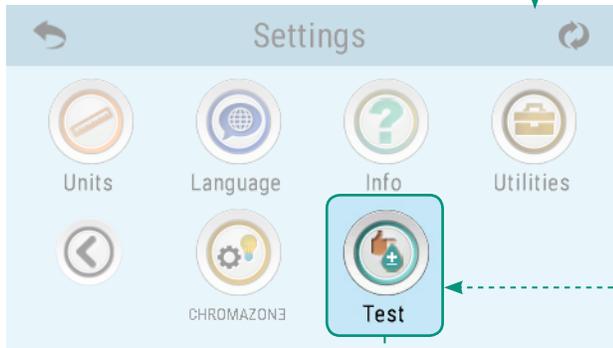
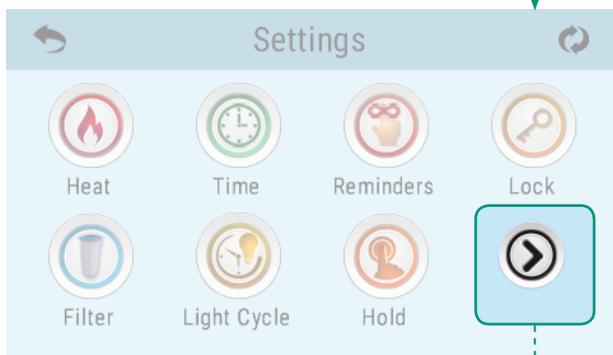
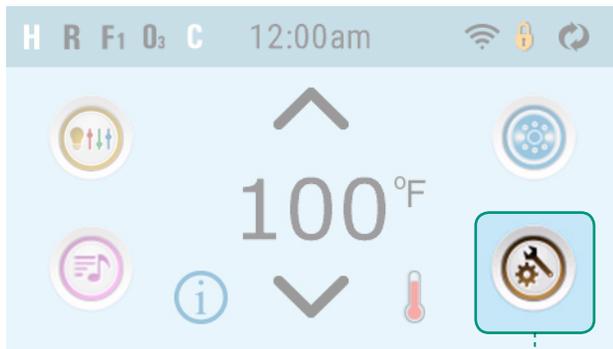
C

D

Navigate System Information with these buttons (B).

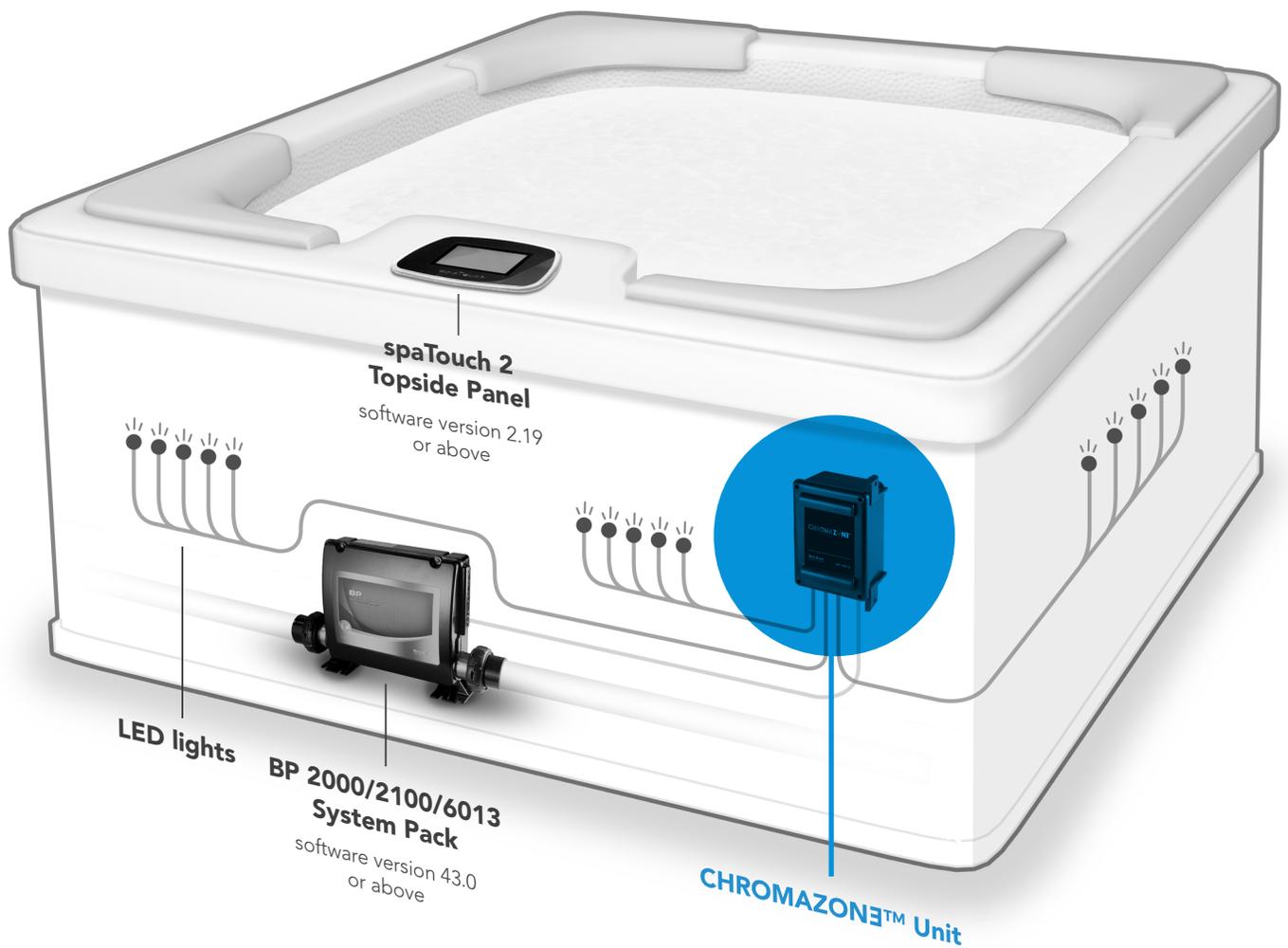
- Topside panel software version (C).
- System pack software version (D).
- CHROMAZONE™ version (A).

Navigate to the CHROMAZON3™ Lights screen.



The Test button does not appear unless DIP switch #1 is ON (see page 12).

CHROMAZONE™ INSTALLATION





STEP 01

Confirm the system pack and topside panel are compatible with CHROMAZON³™. CHROMAZON³™ is compatible with BP 2000/2100/6013 system packs with software version 43.0 or above and spaTouch 2 topside panels with software version 2.19 or above. Navigate to System Information on the topside panel (view page 7). If the system pack and topside panel are compatible, go to the next step.

STEP 02

Power OFF the system pack at the GFCI.

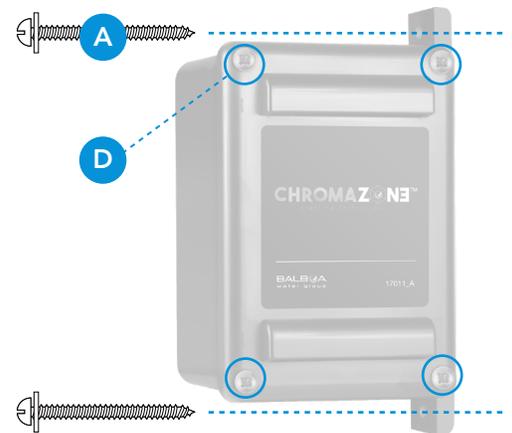
STEP 03

Mount the CHROMAZON³™ unit with two screws (A). Make sure the cord port and air vents are pointed down (B). Make sure the power/data cord (C) can reach system pack.

STEP 04

Remove the enclosure lid by removing these four screws (D).

IMPORTANT: When the unit is mounted, make sure the cable port and air vents are pointed down to prevent moisture from leaking into the enclosure.





Confirm the following items before connecting LED lights to the circuit board (A):

- Only connect LED lights to CHROMAZON3™.
- The voltage rating has to match on all LED lights connected to Zone 1, Zone 2 and Zone 3. For example, if a 5V light string is connected to Zone 1, only 5V light strings can be connected to Zone 2 and Zone 3.
- Lights are connected to the CHROMAZON3™ unit with Sloan connectors (B). If your lights do not have Sloan connectors, use an adapter.

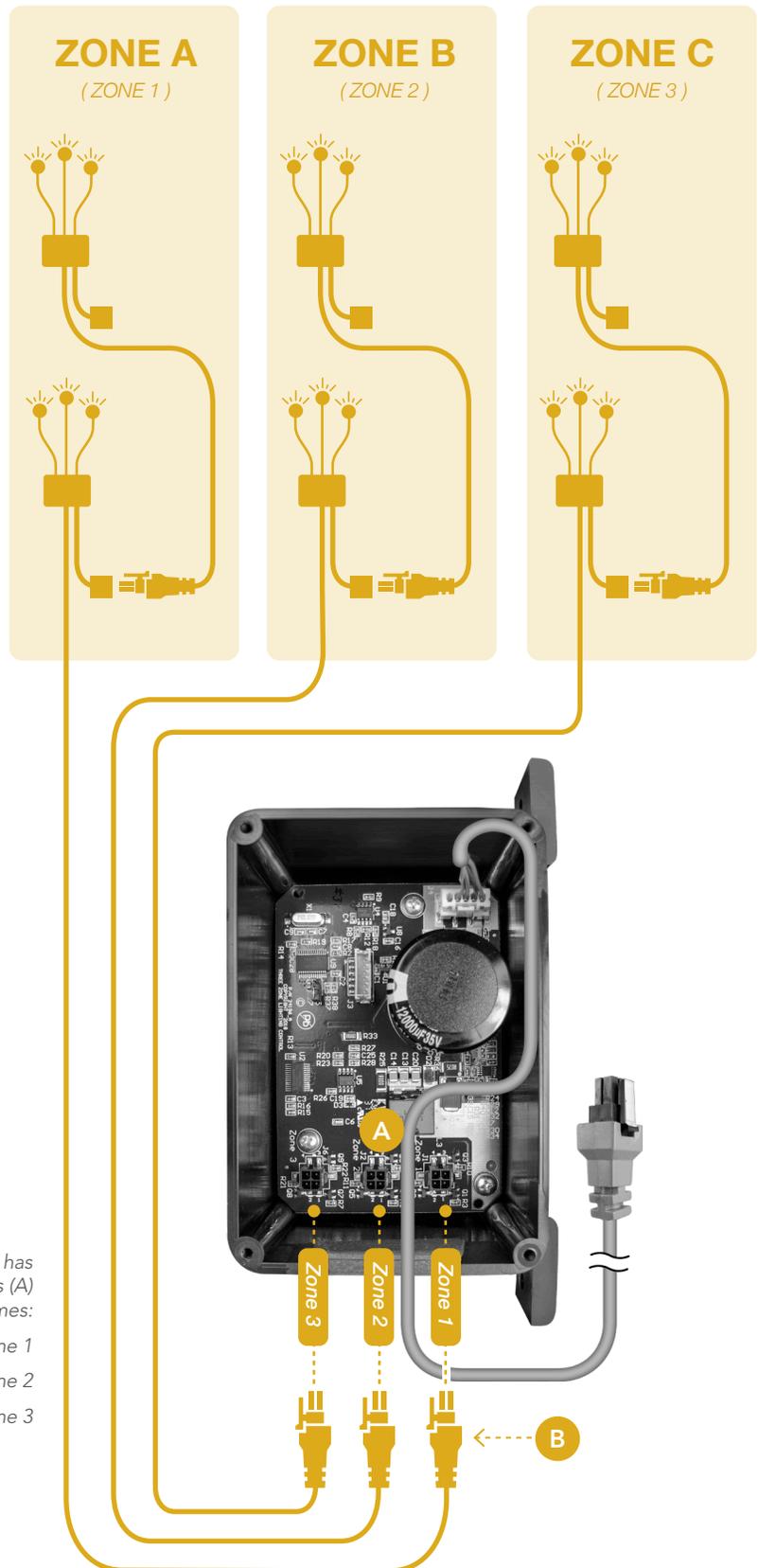
STEP 05

Connect LED lights to the light connectors (A) on the circuit board. Near the end of the installation process, you preform a load test. Make sure all lights are connected to the circuit board for valid test results.

Other spa components have connectors that look like Sloan connectors. Do not accidentally connect other spa components to the light connectors (A).

The circuit board has three light connectors (A) with the following names:

- Zone 1
- Zone 2
- Zone 3





STEP 06

Remove the system pack lid by loosening these two screws (A). Connect the CHROMAZON³™ power/data cord (D) to one of the following panel bus connectors on the system pack circuit board: J34 (F), J35 (G). If both panel buss connectors are occupied, use a y-adapter (C). It is best to connect the CHROMAZON³™ power/data cord directly into J34 or J35. If this is not possible, connect the power/data cord into the shortest branch of the y-adapter cord (B).

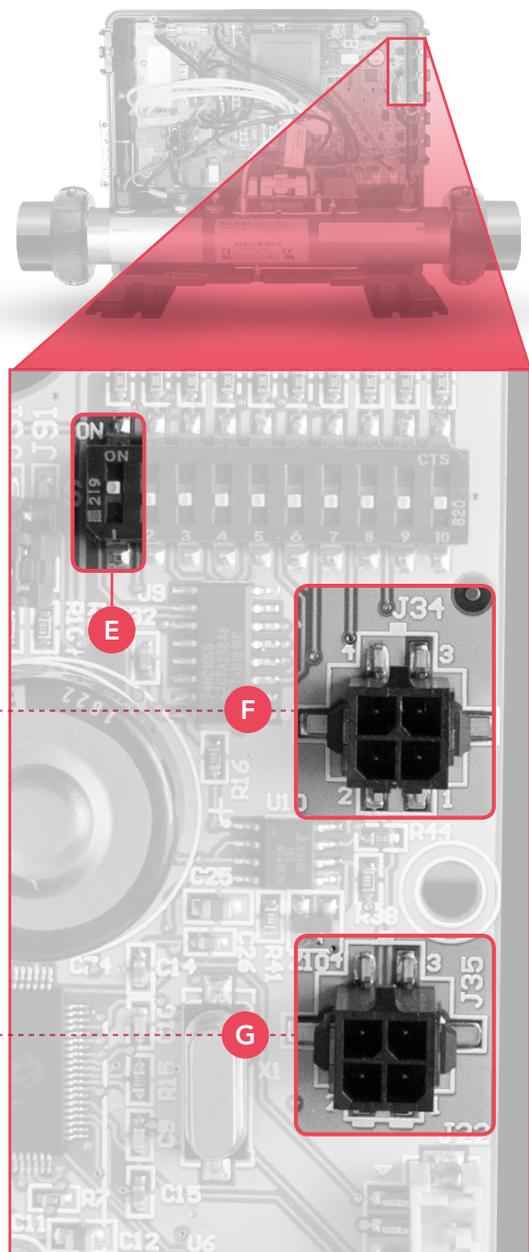


STEP 07

Turn ON DIP switch 1 (E). This puts the system pack into test mode. The system pack has to be in test mode before proceeding to the next step.

STEP 08

Power ON the system pack at the GFCI.



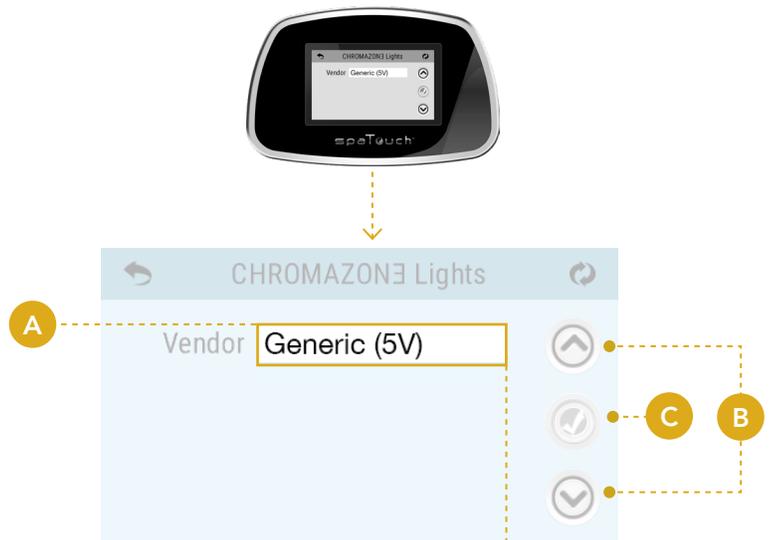


STEP 09

Confirm the voltage rating of your LED lights in the manufacturer's documentation. All lights connected to the CHROMAZON3™ unit need matching voltage ratings.

Go to the topside panel, and navigate to the CHROMAZON3™ Lights window (view page 8).

Touch this field (A) to activate it, and use the navigation buttons (B) to view the preprogrammed list of vendor/voltage combinations. Select a matching vendor/voltage combination and press the Save button (C). When the Save button changes from color to black and white, your settings have been saved.



Preprogrammed List

- Generic (5V)
- Generic (12V)
- Sloan (12V)
- Rosstech (12V)
- PROW (5V)
- Custom

IMPORTANT

Do not apply too much voltage to your lights. Excessive voltage can cause the lights to overheat and/or fail.

For this reason, 12V presets actually power the lights at 11V.



STEP 10

Perform a CHROMAZON3™ Test to make sure the total amperage draw of all the LED lights does not exceed a total load of 90%. CHROMAZON3™'s current limit varies by type of lighting used. The output trip current is limited to 1.6A at 12V out or 2.8A at 5V out.

Navigate to the CHROMAZON3™ Test window (view page 6).

Step 10A: Press the Test button (A) once to perform a complete test. When the test is complete, the results are displayed for Zone A (C). Press the arrow buttons (B) to view test results for Zone B and Zone C. If "Passed" appears in the Status column, the lights did not exceed the available current. If "Overcurrent" appears in the Status column (D), the lights exceeded the available current. If "Overcurrent" appears, go to step 10B.

Step 10B: How do you fix "Overcurrent"? An Overcurrent result indicates a load reduction is needed by means of removing LEDs connected to the CHROMAZON3™'S output. Remove LEDs and repeat step 10A until "Passed" appears for all LEDs in Zones A, B and C.

How do you know if the total load percentage is below 90%? It's simple. When the test is complete, the percentage column (E) displays the load as a percentage. Add the three percentage numbers for Zone A. Navigate to Zone B and add the three percentage numbers. Do the same for Zone C. Finally, add the percentage numbers of Zones A, B and C together to calculate the total percentage of the electrical load.



90%

IMPORTANT

Do not exceed a total electrical load of 90%.

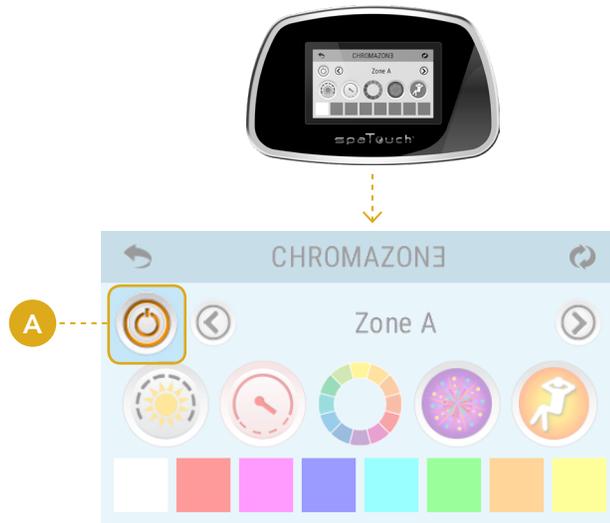


STEP 11

Turn ON the CHROMAZON[™] lights.

Navigate to the CHROMAZON[™] window (view page 6).

Press the Power button (A) to turn ON the CHROMAZON[™] lights.



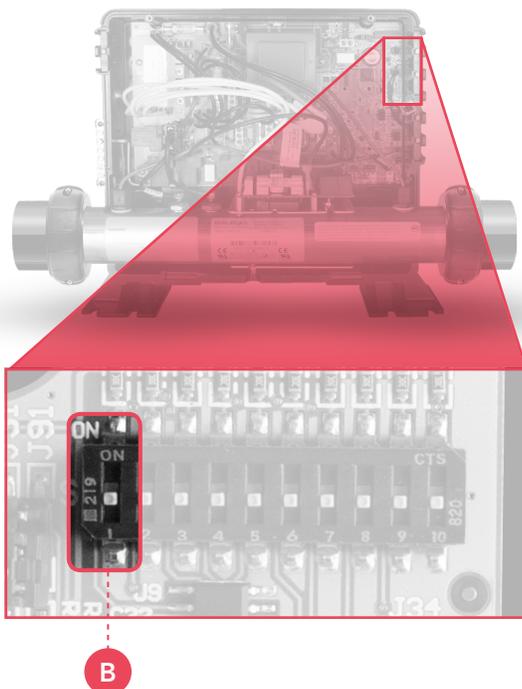
STEP 12

Power OFF the system pack at the GFCI.

STEP 13

Turn OFF DIP switch #1 (B). This takes the system pack out of test mode.

IMPORTANT: *DIP switch #1 must always be OFF when the spa is used by the customer.*



STEP 14

Reinstall the system pack lid (C).





STEP 15

Reinstall the CHROMAZON³™ lid (B). Make sure the lid gasket and box enclosure edge are clean to insure a good seal. Make sure the air vents are pointing down (A) to prevent moisture from leaking into the enclosure.

STEP 16

Power ON the system pack at the GFCI.



CONGRATULATIONS!

CHROMAZON³™ is ready to use.

The Information Menu

CHROMAZON3™ SUPPORT

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Products are covered under one of more of the following US Patents: 5332944, 5361215, 5550753, 5559720, 5,883,459, 6282370, 6590188, 7030343, 7, 417, 834 B2 & Canadian Pt 2342614 plus others. Other patents both foreign and domestic applied for and pending.

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