



TOUCHSTONE
Low Profile Controller System
Configuration 2
Variable Speed Pump, Variable Speed Blower,
LED Light

Installation & Operating Manual



Important Safety Instructions

**PLEASE READ CAREFULLY PRIOR TO
Troubleshooting and Servicing Electrical Equipment**

Definitions:

WARNING (May cause serious injuries or death)

CAUTION (May cause property damage)

For information on NuWhirl Instructions, see:
www.nuwhirl.com/docs/product-instructions.html

When installing and using this electrical equipment, basic safety precautions should always be followed, including:

WARNING: Keep dry. Replace control if exposed to water, moisture or contamination.

WARNING: Use and follow these instructions along with all instructions that have been provided with your whirlpool bathtub in order to fully enjoy the bathtub safely.

WARNING: Electronic control system components should be installed as per local and national Electrical Codes, in a location not to be subjected to splashing or flooding. Exposure to water or splashing will void all product certifications and warranties.

There are no user serviceable parts inside. Opening, modifying, or tampering with control system components will void all product certifications and warranties.

WARNING: Risk of electric shock. Connect only to a ground type receptacle or power supply junction box protected by a Ground-Fault Circuit Interrupter (GFCI). Contact a qualified electrician if you cannot verify that the power supply is protected by a GFCI. The GFCI should be tested on a routine basis. Consult the GFCI manufacturer's instructions for correct testing and operation.

For electrical connections, see applicable wiring diagram.

See www.nuwhirl.com/docs/product-instructions.html

Do not use an extension cord to connect the product to the electric supply; provide a properly located receptacle or junction box.

WARNING: Failure to install in strict accordance with each and every instruction above may compromise the system, which may cause injury to persons and/or property.

The tub may be supplied from more than one power source. Before working on any electrical device, make sure all power to the control system is off.

Use this unit only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer. Any improper installation or misuse of the equipment may result in injury to the user and will void the warranty.

Do not run unit dry. Always be certain that the pump casing is filled with water before starting the unit. If pump fails to prime within 30 seconds, turn it off. Check if there is an airlock, clogged plumbing, or closed valve.

Save these instructions.

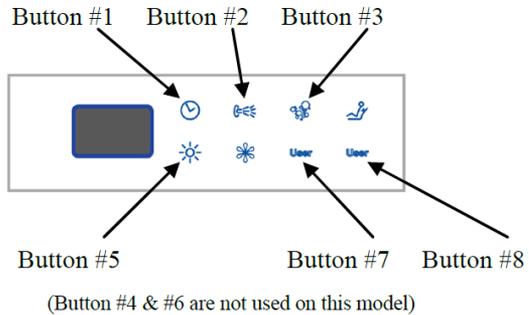
TOUCHSTONE Low Profile Controller System Installation & Operating Manual

Operating Instructions

Your whirlpool bathtub has been equipped with TOUCHSTONE Electronic Controls to provide features that allow you to customize your bathing experience to your individual preference. Please familiarize yourself with the features and operating instructions below in order to maximize the enjoyment you receive from your bath. These operating instructions should be used in conjunction with the other instructions and warnings provided with your whirlpool bathtub in order to fully understand and safely utilize the bathtub.

System Features

- Water Level Sensing
- Variable Bath Timer
- Temperature Display
- Variable Speed Pump
- Variable Speed Blower
- Wave Mode
- Multi-color Tub Light
- Automatic Dry Cycle
- User Preference Buttons



Backlit Multi-Button Keypad

Your Whirlpool System is controlled by the Multi-Button keypad shown above with reference Button numbers. The backlit buttons will illuminate as features become available. Please use the diagram with the Button numbers to follow the Operating Instructions below. The keypad has a three-digit digital display to give you additional information as you operate your system.

Water Level Sensing

Before setting the Variable Bath Timer the tub must be filled with water. Your bathtub includes a water level sensing element that prevents the whirlpool system from being turned on unless there is sufficient water in the tub. This protects against the system splashing water out of the tub if the level is too low. When the required amount of water is sensed, the clock icon (Button #1) will blink to indicate the Timer is ready to be set. If insufficient water is detected while the whirlpool system is operating the system will automatically turn off, and the display will show "no h2o".



Operating Instructions (continued)

Variable Bath Timer

Before starting the whirlpool system, the Variable Bath Timer must be set. Press and hold Button #1 to set the timer. (If the Timer is attempted to be set without water in the tub, the display will show “no h2o” and the Timer will not set.) The display will start at 10 minutes and increase in 5 minute increments to a maximum of 30 minutes. Release Button #1 when the desired amount of time is displayed. The buttons available to operate the system features will illuminate and/or blink to show they are ready. While the system is operating, the remaining time can be increased by pressing and holding Button #1, or all functions can be stopped by pressing and releasing Button #1.

Temperature Display

After the Timer has been set, the display will show the temperature of the bath. The temperature displayed is approximate and may vary by ± 3 degrees. The display will alternately show the water temperature and the remaining time.

Variable Speed Pump

The whirlpool water system is activated by pressing Button #2 and the display will briefly show “SP6”. The system will begin operating at high speed. The system will stop automatically when the timer expires. To stop the system earlier, press Button #2 and the display will briefly show “OFF”. The intensity of the jets can be changed by pressing and holding Button #2 to decrease the speed of the system.

The display will show “SP6” (highest) and count down to “SP1” (lowest). Release the button when the desired action is achieved. To raise the intensity of the jets, press and hold Button #2 and the system will return to high speed and the display will show “SP6” again. Release Button #2 to stay at high speed, or continue to hold until the desired action is achieved.

Variable Speed Blower

The whirlpool air system is activated by pressing Button #3 and the display will briefly show “SP6”. The system will begin operating at high speed. The system will stop automatically when the timer expires. To stop the system earlier, press Button #3 and the display will briefly show “OFF”.

The intensity of the air injectors can be changed by pressing and holding Button #3 to decrease the speed of the system. The display will show “SP6” (highest) and count down to “SP1” (lowest). Release the button when the desired action is achieved. To raise the intensity of the air injectors, press and hold Button #3 and the system will return to high speed and the display will show “SP6” again. Release Button #3 to stay at high speed, or continue to hold until the desired action is achieved.

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Wave Mode

The jet system and the air system can both be placed in the Wave Mode. To enter the Wave Mode continue to hold Button #2 or #3 for 2 seconds while the display shows "SP1" and the display will show "WA". In Wave Mode the system will continuously cycle back and forth between the highest and lowest speed. To exit the Wave Mode press and hold Button #2 or #3 and the system will return to high speed and the display will show "SP6" again. Release Button #2 or #3 to stay at high speed, or continue to hold until the desired action is achieved.

Multi-color Tub Light

The Multi-color Tub Light is activated by pressing Button #5 at any time. (Note: this will set the Variable Bath Timer to 30 minutes if the system is not on.) To turn the Light off press Button #5 again. When activated, the display will briefly show "C00" and the Light will be in a mode that sequences through all colors. To select a steady color, press and hold Button #5. The colors available and the corresponding color code shown on the display are: Multicolor sequencing (C00), White (C01), Blue (C02), Aqua (C03), Green (C04), Yellow (C05), Red (C06), Magenta (C07). Release Button #5 when the desired color is shown.

User Preference Buttons

Buttons #7 and 8 are available to store preferred user settings. To store the current settings, press and hold one of the User Buttons until the display shows "Sto". After settings are stored, pressing and releasing the button will return the settings and the display will show "USr". The stored settings can be overwritten at any time by pressing and holding the User Button until "Sto" is displayed.

Automatic Dry Cycle

20 minutes after the system is shut off and the water level has fallen below the required level, the Air Blower will automatically come on for one minute. This cycle will purge out any residual moisture that is in the air system making the system fresh and ready for the next bath. If the bath was filled to the required water level the Automatic Dry Cycle will occur even if the Air Blower was not operated.

Additional Notes

If no Buttons are pressed for 10 seconds, the back lighting of the Buttons will dim to be less distracting while enjoying the bath. Pressing any Button to change a setting will bring the Buttons back to fully lit.

Upon initial power up, or after a power interruption to the system the controls will do an initial diagnostic and capacitor charge check. During this time, the display will show "CAP" until the system is ready for use and the buttons will not operate. This process will take up to one minute and is normal.

If the Timer expires with multiple functions operating, all will automatically turn off.

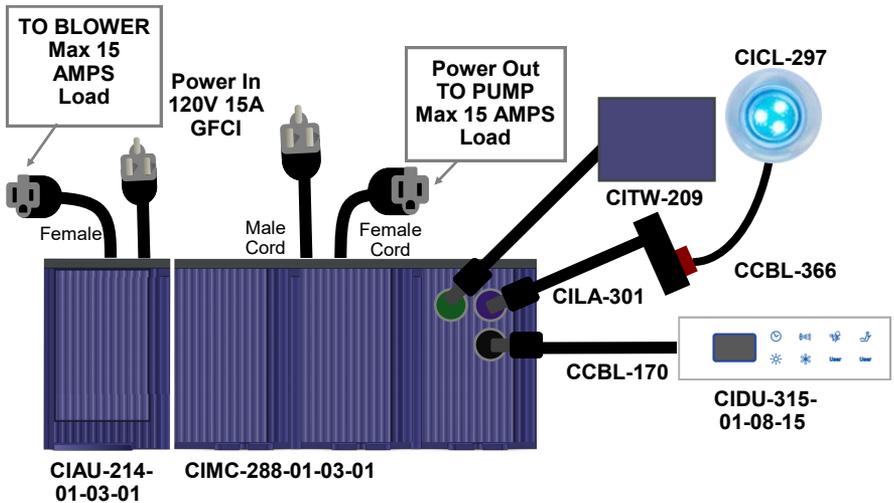


Installation Diagram

System Identification: CIDU-315-01-08-15 Configuration #2

System features: Temperature Display, Water Level Sensing, Variable Bath Timer, Variable Speed Pump, Variable Speed Blower, Wave Mode, Multi-color Tub Light, Automatic Dry Cycle, User Preference Buttons

Controller Installation:



NOTES:

1. Use wire clips provided to retain cables.
 2. **CAUTION:** Do not plug 8-pin cables into 6-pin ports or damage may result to system.
 3. Connect cables to ports as shown. Installation may not require the use of all connection ports.
 4. Before assembling the two controllers together, remove the Blue Communication Window Plugs between them, and replace them with the supplied Clear Red Window Plugs for IR communication to occur between units. CIAU Unit is to be installed on the left of the CIMC unit as shown.
- CAUTION:** Failure to connect cables to ports as shown, may damage the control box and its components.

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Retain this manual for future reference

**For your records and future reference
please fill in data below:**

Manufacturer: _____

Model: _____

Serial: _____

Date of Installation: _____

