JOYONWAY
君乐美

PB555
Simplified operation instruction
简易操作说明书

⚠ **WARNING**

1. Please connect power strictly accoding to the SPA power data plate.
2. Please do not turn the SPA power on until the water reaches water level line inside the tub.

⚠ **WARNING**

Please set time and date before using the SPA control system.

PB555has navigation keys : 🔘 🔘 🔘 🔘

Users can realize all the operation with navigation keys. In the display interface, the green background of words or icons is the choosing cursor. Only one item can be chosen in every interface. With navigation key, the position of cursor and relative setting can be changed.

Pump 1 shortcut key: 🔘

Will be used to control the on/off of pump 1 , if pump 1 is single speed pump; if pump 1 is a double speed pump, pressing continuously the key can switch from low speed to high speed and off. The sequence is: start low speed,->start high speed->turn off.

Pump 2 shortcut key: 🔘

Are with the same function as pump 1 shortcut key.
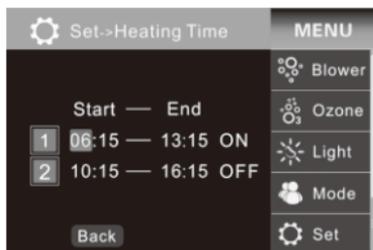
Screen Invert shortcut key: ▭

It can realize the displayed content 180 degree inverting and navigation key direction will be changed accordingly.

Light shortcut key: ✷

Light has two modes, in mode of on and off, press the shortcut key to turn on and off the light. In RGB mode, light has 9 states including automatic color change, red, green, yellow, blue, purple, cyan, white and turning off. Users can switch among these states.

Manual Heating

When manual heating function is started, a heating icon " 🔥 Heat " will be added in the menu. Users can manually start the heater in the home interface. When the manual heating function is turned off, the heating icon will disappear.

2

⚙ Set->Heating Time	MENU
	🌬 Blower
Start — End	☁ Ozone
① 06:15 — 13:15 ON	☀ Light
② 10:15 — 16:15 OFF	≡ Mode
Back	⚙ Set

Timing heating and its time setting

When the control system is set as timing heating mode, the heater can operate automatically in two sets of the time periods. And the two time periods are independent from each other. Two time periods can be set overlapped. For example, if time 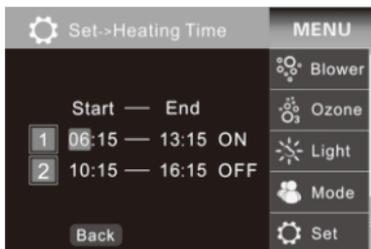period 1 is 06:15 ---13:15, time period 2 is 10:15---16:15, the heater will work between 06:15---16:15. If the starting time is larger than the ending time, then the heater will continuously work till the ending time of next day. For example, if the time period is between 20:00---10:00, then the heater will work from the 20:00 of first day till the 10:00 of the next day. Note: when the time period is set as on, during the period, the heater will work. If the time period is set as off, heater will be turned off.

When the green cursor is on " ① " or " ② " , press " ⊙ " to set the time period as on or off. Press " ⊘ " to entering time setting. Press " ⊙ " to move the cursor.
Press " ⊘ " and " ⊘ " to set the time. Press " ⊙ " and " ⊙ " to exit the time editing. And cursor will be moved back to the very left side. After the time setting is done, press " Back " to store the setting and return.
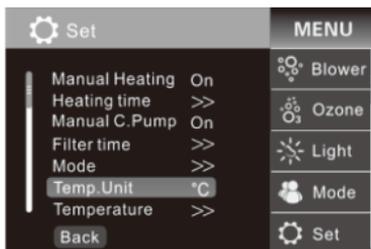
Manual C.pump

When the manual cycle pump function is started, there will be a cycle pump icon " CPump " added in the function operation interface. Users can manually start cycle pump in the home interface. When the manual cycle pump function is turned off, this icon will disappear.
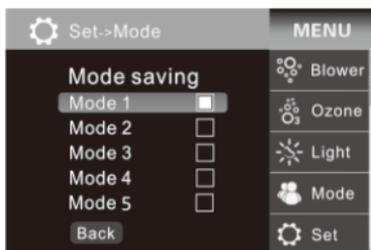
Filter time

When the control system is set as timing water cycle mode, its on/off and time period setting methods is the same with timing heating.

Temperature unit

In Set of the menu, press " ⌃ " and " ⌄ " to move the cursor to Temp Unit. Then press " ⊙ " . Temerapture unit can be set as ℃ or ℉.

Mode

PB555 control panel have five different modes. They can be stored and selected with navigation keys.

How to store the setting: In Set-> Mode of the menu, press " ◁ " and " ▷ " to move the cursor to the items need to be sav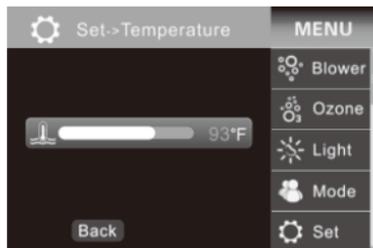ed then press " ⊙ " . If the square on the right side of the item is solid, then it indicates the current mode is stored. Mode of jet(pump), blower, ozone, heat, and light can be stored.

How to select the mode stored: In the main interface, press " ⌃ " and " ⌄ " to move the cursor to " 🔒 Mode " . Then press " ⊙ " in turn to select the stored the modes. Modes of PB555 control panel can be selected by short-cut key " ⊛ " . Note: please pre-set mode function before use it the first time.

Auto lock

In the Set of menu, press " ⌃ " and " ⌄ " to move the cursor to "Auto Lock" . Then press " ⊙ " to set the lock starting time as "off" , "30S" , "1 min" and "3 min" . When set as off, the lock function is turned off. When the lock is started, press continuously " ⊙ " for 3S. When "Auto Lock" disappears from the screen, the auto lock function is disabled.

Temperature setting

Temperature setting range is 50 F- 104F(10C -40C). In Set-> Temperature of the menu, temperature value can be increased or decreased with " ⊙ " and " ⊙ " . Temperature setting will be automatically stored when exit menu.

Ozone

Ozone function has manual mode and auto mode.

In the Set of the menu, press " ⊙ " and " ⊙ " to move the cursor to Ozone. Then press " ⊙ " to set the ozone as auto start mode or manual start mode. Auto start operation can refer to control regulation description of the control system.

In manual mode, there will be a icon " ⌂ Ozone " added in the menu. Users can manually start the ozone in main interface. When manual start mode is turned off, the icon will disappear.
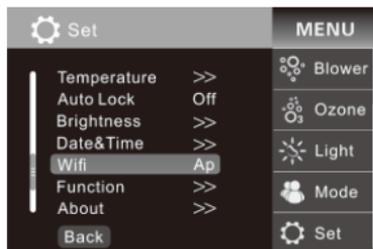
Wifi

When the control system is connected with a Wifi module, in the Set -> of the menu, there will be Wifi.

Wifi transceiver has three states: "OFF" , " AP" , and "Sta" .

Wifi mode can be compulsively set as AP or OFF. But it can not be set as Sta mode compulsively. When the wifi transceiver is connected to a router, the system will automatically set the wifi mode as Sta.

When the Wifi mode is compulsively set as AP, the wifi transceiver will be automatically disconnected and the connected the Wifi will be forgotten. When users compulsively set the wifi mode as OFF, wifi transceiver will stop working.
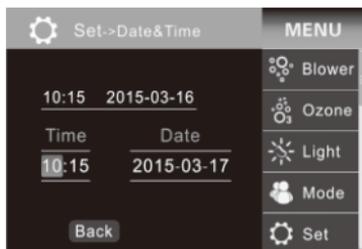
Reset the APP login password: when users forget APP login password, they can reset the password on the panel to the factory default "Joyonway" .

When the wifi transceiver is on OFF mode, pressing' " ⊙ " , Wifi state will be displayed as "clean" . After a few seconds, when Wifi state is switched to "AP" , it indicates the password is successfully reset. For Wifi connection and operation method, please refer to SPA APP manual instruction.

Backlight brightness setting

Backlight brightness setting range is 1-30. In Set -> brightness of the menu, press " ⟨ " and " ⟩ " to adjust the backlight brightness. The value will be automatically stored when exiting the menu.

Date & time

In Set-> Date &Time of the menu, press "⊙" to move the cursor, and set the date and time with " ⟨ " and " ⟩ " . The setting will be automatically stored after exiting the menu. If the control system is off power, the correct time setting can be kept for a few days.

When some problems occur requiring users' attention, the alarming information will be displayed on the control panel. If several problems occur at the same time, the alarming information will be displayed in turn. Below is an example:

Below is the detailed description of the control system alarming information:

5

Alarming information display position

F1:TEMPERATURE SENSOR DISCONNECTED

Temperature sensor disconnected

Control system detects the temperature sensor is disconnected. Please check the connection of temperature sensor to the system. And replace it with a new one if necessary. If the problem remains, please contact technical support.

F2:TEMPERATURE SENSOR SHORTCIRCUIT

Temperature sensor short circuit display

Control system detects the temperature sensor is short circuited. Please check the temperature sensor and its connection. Replace it with a new one if necessary.

F3: WATER FLOW ABNORMAL

Water Flow Abnormal
The control system detects high temperature.
When the heater is started, and there is no water or the water flow is too slim , this error code may appear.
Action: please ensure that there is enough water in the SPA tub and the heating circulation route is unobstructed.

F4:TEMPERATURE IS TOO LOW

Temperature is too low
Control system detects temperature sensor's temperature being too low. Please pay attention to freezing problem.

F5: WATER FLOW ABNORMAL

Water flow abnormal
The control system detects over temperature , which activated the automatic recovery overheat protector.
When the heater is started, and there is no water or the water flow is too slim, this error code may appear.
Action: please ensure that there is enough water in the SPA tub and the heating circulation route is unobstructed.

6

F6:MANUAL-RESET THERMOSWITCH OPEN

Manual-reset thermo switch open
It indicates the heating pipe temperature is too high. Please contact technical support.

F8:EEPROM(MEMORY) ERROR

Eeprom (main Board Memory) Error
Please disconnect the power and wait for 10 seconds to repower the system. If the problem remains, please contact technical support.

F9:SYSTEM SETTINGS ERROR

System setting error display
Reason: After power connection, the system reads the system configuration verification to be incorrect from EEPROM (main board memory). Action: please disconnect the power and wait for 10 seconds to repower the system. If the problem remains, please contact technical support.

F10:COMMUNICATION ERROR

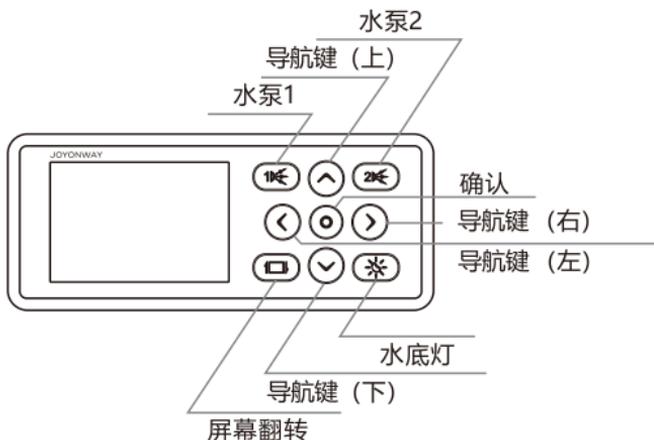**The control panel can not communicate with control box**
Reason: the control panel can not exchange information with control box. Action: please turn off the power, and check if the cable connection between and control panel and control box is all in good condition, and the connectors are tightly connected. If yes, please turn on the power, if the error remains,please contact technical support.

⚠ **警告**

1. 请严格按照SPA接线图连接电源。

2. 在水位达到缸内水位标线之前请不要启动
   SPA控制器。

⚠ **警告**

在使用SPA控制器之前请先

设置日期和时间。

水泵2

导航键（上）

水泵1

确认

导航键（右）

导航键（左）

水底灯

导航键（下）

屏幕翻转

7

PB555的快捷键包括： 1️⃣ 2️⃣ ▭ ❄

用户可以通过导航键完成所有操作。显示界面以文字或图标的绿色背景为选择光标，每一
个界面都只有一个选项被选中，通过导航键改变光标的位置或修改相应设置。

水泵1快捷键： 1️⃣

如果水泵1是单速泵，用于控制水泵1的开或关；如果水泵1是双速泵，连续按键可切换低
速、高速或关，具体顺序如下循环：开低速->开高速->关闭。
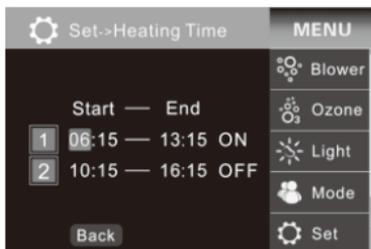
水泵2快捷键： 2️⃣

用法和水泵1类似。

屏幕翻转快捷键: (▣)

用于显示内容上下180度翻转，同时导航键的方向也随之改变。

水底灯快捷键: (※)

水底灯有两种模式。在开关模式，触控按键可以打开和关闭水底灯。在RGB模式，水底灯共有自动变色、红色、绿色、黄色、蓝色、紫色、青色、白色和关闭等9种状态，用户可以循环切换状态。

手动恒温

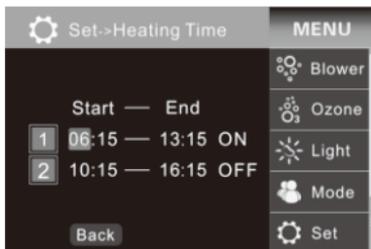当手动恒温功能开启时菜单栏会增加一个恒温"[※ Heat]"选项，用户可以在主界面下手动开启恒温器，当手动恒温功能关闭时该选项消失。

8

Set.->Heating Time	MENU
	Blower
Start — End	Ozone
1 06:15 — 13:15 ON	Light
2 10:15 — 16:15 OFF	Mode
Back	Set

定时恒温及时间设置

当控制系统设置为定时恒温模式时，恒温器可在两个设置的时间段内自动运行，且两个时间段相互独立，互不干扰，两个时间段所设定的时间可以重叠，例如： 1时间段06:15 --- 13:15，2时间段10:15 --- 16:15，则恒温器会在06:15 ---16:15时间段内加热；如果起始时间大于结束时间，恒温器会持续加热到第二天的这一结束时间，例如：设定时间为20:00 --- 10:00，则恒温器会从第一天的20:00加热到第二天10:00。注意，时间段设置为"ON"的状态时，恒温器打开；时间段设置为"OFF"的状态时，恒温器关闭。

当绿色光标处于" 1 "或"2 "时，按下" ⊙ "键可设置时间段处于"ON"或者"OFF"状态，按下" ⊘ "键进入时间设置。设置时间时按" ⊙ "键来移动光标，按下"⊙"和"⊘"键进行时间设置，按下"⌃"和"⌄"键可退出当前时间段编辑，光标回到最左边。时间设定完毕以后"[Back]"返回并保存设置。

手动水循环

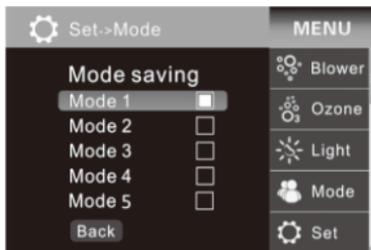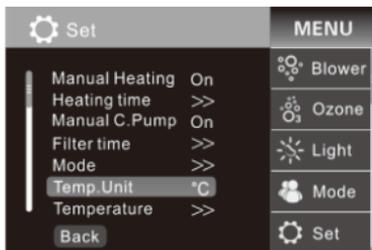当手动水循环功能开启时功能操作界面会增加一个循环泵 " " 选项，用户可以在主界面下手动开启循环泵。当手动水循环功能关闭时该选项会消失。

定时水循环及过滤时间设置

当控制系统设置为定时水循环模式时，定时水循环和定时恒温的开关和时间段的设置在操作办法是一样的。

温度单位

在Set菜单中，通过 " ⌃ " 和 " ⌄ " 键将光标移到所要" Temp. unit "选项，然后按下 " ⊙ " 键，可以把温度单位设置成℃（摄氏度）或℉（华氏度）。

情景模式
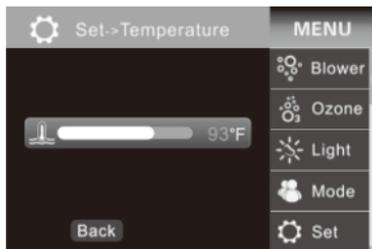
PB555有5种不同的情景模式，均可通过导航键来保存和调出不同的情景模式。

如何保存：在Set->Mode菜单中，通过 " ⌄ " 和 " ⌄ " 键将光标移到所要存储的选项，然后按下 " ⊙ " 键，选项右侧方框内显示白色实心方块，表示当前情景模式已保存。情景模式可以保存水泵（Pump）、气泡泵（Blower）、臭氧消毒（Ozone）、恒温加热（Heat）、水底灯（Light）等负载的状态。

如何调出：在主显示界面中，通过 " ⌃ " 和 " ⌄ "键将光标移到菜单" Mode "选项，依次按下" ⊙ " 键，可调出已保存的不同情景模式。PB555控制面板可通过情景模式调出快捷键 " ⑧ " 调出。注意，初次使用情景模式功能时请预先设置。

童锁功能

在Set菜单中，通过 " ⌃ " 和 " ⌄ " 键将光标移到所要" Auto lock "选项，然后按下 " ⊙ " 键，可以把保护锁启动时间可以设定为"Off"、"30s"、"1min"、 "3min"，当设定为"Off"时，控制面板关闭保护锁功能，当保护锁功能启动时，长按 " ⊙ " 键3S直到"Auto lock"提示框消失，表示保护锁功能取消。

9

温度设定

温度设定范围为50℉～104℉（10℃～40℃）。
在Set->Temperature菜单中，通过
"⟨" 和 "⟩" 键可设置温度的大小，退出菜单后设置温度将会自动保存。

臭氧消毒功能

臭氧消毒有自动模式和手动模式。在Set菜单中，通过 "⟨" 和 "⟩" 键将光标移到所要"Ozone"选项，然后按下 "⊙" 键， 可以把臭氧消毒功能设置为自动开启模式（Auto）和手动开启模式（Manual）。

自动模式的运行参照控制系统的控制规律中所述。

手动模式开启时菜单栏会增加一个臭氧消毒 "Ozone" 选项，用户可以在主界面下手动开启臭氧发生器，当手动模式关闭时该选项消失。
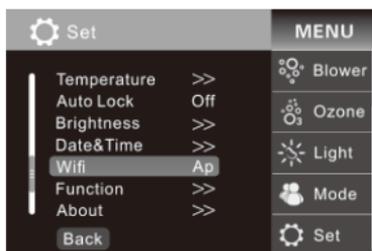
10 **Wifi**

当控制器连接有wifi模块时， 在Set菜单可以找到wifi选项。

wifi收发器一共有3种状态"OFF"、"AP"、"Sta"。

wifi模式可以强制设置为 AP 或 OFF， 而不能强制设置为"Sta"模式，但当wifi收发器成功连接到路由器时，控制系统会将WIFI模式自动设置为Sta.

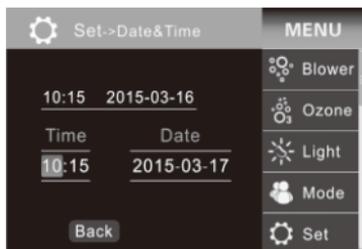如果 wifi 模式被强制配置为AP模式时，wifi收发器会断开连接,并忘记已连接的网络。如果wifi模式被强制配置为OFF模式时，wifi收发器会停止工作。

重置app登录密码：忘记app登录密码时可以通过控制面板重置密码"Joyonway"。

在wifi收发器处于OFF模式时按" ⟩"键，wifi状态显示为"clean"，几秒钟后wifi状态显示"为"AP"，说明密码重置成功。Wifi连接操作方法参考SPA APP使用说明。

背光设定

背光亮度调节范围1~30。在Set->Brightness菜单中，通过"〈 "和 " 〉 "键可设置背光强度，退出菜单后设定值将会自动保存。

日期和时间设定

在Set->Date & Time菜单中，通过"◉ "键移动光标，再通过"〈 "和 " 〉 "键来设置日期和时间，退出菜单后设置将会自动保存。当控制系统断电后正确的时间将会保持几天。

控制系统发生一些需要用户注意的状态时，控制面板会将状态的警告信息显示在控制面板上，如果有几种需要显示的信息同时存在，这些信息会轮流切换显示。

以下是这些信息显示时的显示屏状态, 如图:

11

警告信息显示位置

F1:TEMPERATURE SENSOR DISCONNECTED

温度传感器断开

控制系统检测到温度传感器未连接。请检查温度传感器及其连接，必要时更换。

F2:TEMPERATURE SENSOR SHORTCIRCUIT

温度传感器短路

控制系统检测到温度传感器短路。检查温度传感器及其连接，必要时更换。

F3:WATER FLOW ABNORMAL

水流异常
控制系统检测到温度传感器的温度过高。在恒温器启动时，当加热管中无水或水流较小时就可能出现此信息。
措施：请保证SPA 缸中有足够的水量且加热循环管路通畅

F4:TEMPERATURE IS TOO LOW

温度过低
控制系统检测到温度传感器的温度太低。请注意防冻。

F5:WATER FLOW ABNORMAL

水流异常
控制系统检测到温度传感器的温度太高，使自动恢复过热保护器跳开。在恒温器启动时，当加热管中无水或水流较小时就可能出现此信息。
措施：请保证SPA 缸中有足够的水量且加热循环管路通畅

F6:MANUAL-RESET THERMOSWITCH OPEN

手动复位热敏开关
加热管上的MANUAL-RESET THERMOSWITCH 打开了，表示加热管的温度非常高。请联系服务商或生产商。

F8:EEPROM(MEMORY) ERROR

主板存储器（EEPROM）错误
控制系统在上电后判断主板存储器（EEPROM）错误。请关闭电源等待10秒钟后重新上电，如果再次出现此信息，请联系服务商或生产商。

F9:SYSTEM SETTINGS ERROR

系统设置错误
原因：控制系统在上电后从主板存储器读取的系统配置项校验不正确。措施：请关闭电源等待10秒钟后重新上电，如果再次出现此信息，请联系服务商或生产商。

F10:COMMUNICATION ERROR

控制面板与主机不能通讯
原因：控制面板与主机不能交换信息。措施：请关闭电源，检查控制面板与主机的线路连接是否良好，连接件是否结合紧密，确认后上电，如不能消除此故障，请联系服务商或生产商。

JOYONWAY

君乐美

升旭液压（中国）有限公司东莞分公司
Sun Hydraulics (China) Co.,Ltd. Dongguan Branch

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