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PB563

Simplified operation instruction

简易操作说明书

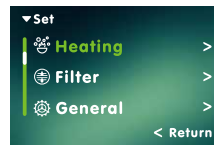


警告

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。



在待机状态下触摸“确认”键，系统将进入功能操作状态，此时某一个功能图标将出现阴影状态，表示该功能处于选中状态，可通过触摸“上”或“下”键切换选择不同的功能图标，触摸“确认”键，可切换该功能的运行状态。停止触摸任何按键5秒后，系统自动退出功能操作状态。

设置界面

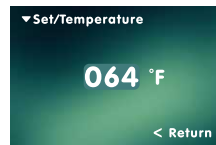
在功能操作界面把光标移到“选型”，触摸“确认”键，系统将进入设置界面。在设置界面中，光标所在位置的选项字符为绿色。通过触摸“上”或“下”键可移动光标的位置，触摸“确认”键进入相应选项的下一级界面或改变状态。触摸“左”键退出设置界面。

温度单位

可以把温度单位设置成°C（摄氏度）或°F（华氏度）

温度设置

预设温度范围为 50°F ~ 104°F (10°C ~ 40°C)。在 Set/Heating/Temperature 菜单中，通过“上”和“下”键可设置温度的大小，退出菜单后设置温度将会自动保存。

**手动恒温**

当手动恒温功能开启时功能操作界面下会增加一个恒温“选”选项，用户可以在功能操作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。

**水泵1快捷键**

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**

用法和水泵1类似。

**水底灯快捷键**

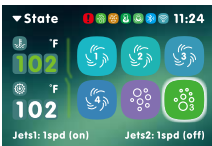
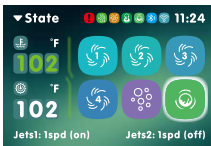
水底灯有两种模式，在开关模式，触控按键可以打开和关闭水底灯。在RGB模式，水底灯共有自动变色、红色、绿色、黄色、蓝色、紫色、青色、白色和关闭等9种状态，用户可以循环切换状态。

**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。

**情景模式调出快捷键**

共有6种不同的情景模式，依次按下该键可调出用户已保存好的不同情景模式。



定时恒温及时间设置

当绿色光标（时间段标志以圆圈为选中标志，白色“2”表示未选中，绿色“2”表示选中）处于某一位置时，表示该段处于可设置状态，可通过“↑”和“↓”键进行设置，可通过触摸“⊙”键切换下一个需要配置的时间。当时间段标志中间为镂空状态时“①”，表示该时间段处于OFF状态，当时间段标志中间为绿色底纹时“②”，表示该时间段处于ON状态。时间设置完毕以后触摸“⏪”键退出并保存设置。

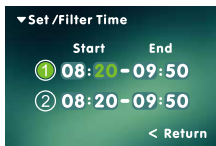
手动水循环

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，用户可以在功能操作界面下手动开启循环泵。当手动水循环功能关闭时该选型会消失。

臭氧消毒功能

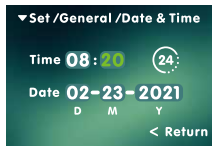
臭氧消毒有自动模式和手动模式。

可以把臭氧消毒功能设置为自动开启模式（Auto）或者手动开启模式（Manual）。手动模式开启时功能操作界面会增加一个臭氧消毒“☼”选项，用户可以在功能操作界面下手动开启臭氧发生器。



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。



日期和时间设定

绿色光标标志表示当前时间段处于可配置状态，可通过“↑”和“↓”键进行设置，可通过触摸“⊙”键切换下一个需要配置的时间。时间和日期设置完毕以后触摸“⏪”键退出并保存设置。

童锁保护功能

可以把保护锁启动时间可以设定为“Off”、“30s”、“1min”、“3min”，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。

背光设定

背光亮度调节范围1~16。



情景模式

PB563控制面板有6种不同的情景模式，情景模式可以保存水泵（J E T S）、气泡泵（B l o w e r）、臭氧消毒（Ozone）、恒温加热（Heat）、水底灯（Light）等负载的状态。

如何保存：在Set/User Mode菜单中，触摸“↑”和“↓”键将光标移到所要存储的选型，然后触摸“⊙”键，选项右侧图标变成蓝色状态，表示当前情景模式已保存。

如何调出：在Set/User Mode菜单中，触摸“↑”和“↓”键将光标移到所要调出的选型，然后触摸“➡”键，选项左侧图标变成绿色状态，表示已调出该存储模式，回到主界面可以看到顶部图标栏会显示对应情景模式的图标。




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。

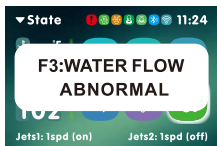
如果 wifi 模式被强制配置为AP模式时，wifi收发器会断开连接，并忘记已连接的网络。如果wifi模式被强制配置为OFF模式时，wifi收发器会停止工作。

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模式时长按“”键，wifi状态显示为“CLN”，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。

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：



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

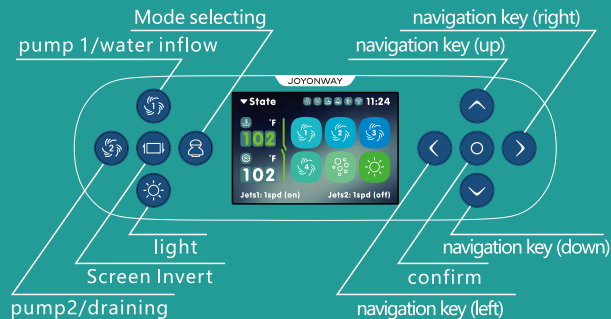
原因: 控制面板与主机不能交换信息。措施: 请关闭电源, 检查控制面板与主机的线路连接是否良好, 连接件是否结合紧密, 确认后上电, 如不能消除此故障, 请联系服务商或生产商。

⚠ WARNING

1. Please connect power strictly according 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.



Short-cut key pump 1:

If pump 1 is single speed pump, then the key will be used to control the on and off of pump 1. If pump 1 is double speed, then keep pressing the key, it will switch from low speed pump, high speed pump to off. The sequence is low speed pump-> high speed pump-> off.



Pump 2 shortcut key:

Are with the same function as pump 1 shortcut key. Press for 1 second to start draining



Shortcut key light:

Light has two modes. In on/off mode, pressing the key can turn on and off the light. In RGB mode, it has 9 statuses of auto color change, red, green, yellow, blue, purple, cyan, white and off. User can switch among these statuses by pressing the key.



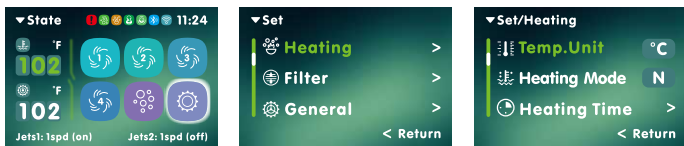
Short-cut key of Screen Invert:

Press this key to turn the main interface upside down. And the direction of navigation key will be changed accordingly.



Mode selecting shortcut key:

It has six different modes. Pressing the key in turn can select the different modes stored by the users.



In standby state, press to enter function operation state. One function icon will be in shadow, indicating it is selected. Press to switch to different function icons. Press to switch the operating state of that function. Do not press any button for 5 seconds, the system will exit function operation state.

Set interface

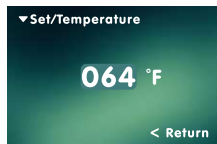
In function operation interface, move the cursor to . Press to enter set interface. In set interface, the character selected by the cursor will be green. Press or to move the cursor. Press to enter the next level interface of corresponding option or change its state. Press to exit set interface.

Temp. unit

Temperature unit can be set as °C or °F .

Temperature setting

The temperature setting range is 50 °F to 104 °F (10 °C to 40 °C). In Set-> Temperature, press to set the value of the temperature. The value will be automatically stored after exiting the menu.



Manual Heating:

When the manual heating function is started, there will be a heating icon added in the function operation interface. User can start heating function in the function operation interface manually. When the manual heating function is turned off, the icon will disappear.



Heating timer set

When the green cursor is in a certain position, it indicates that time period can be set. (White "②" means not selected, green "②" means selected). Press to set. Press to switch to next time character. When the time period number is hollow "①", it indicates the timer period is off. When the time period number is with green shading "②", it means that time period is on. Press to exit and save the setting.

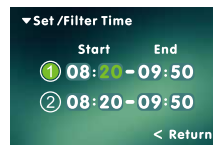
Manual Cpump

When the manual cycle pump is started, there will be a cycle pump icon added in the function operation interface. User can start cycle pump manually in function operation interface. The icon will disappear when the manual cycle pump function is turned off.

Ozone

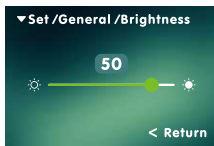
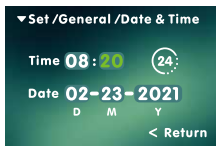
OZone has two modes: auto and manual

Ozone can be set as auto start or manual start. In manual start mode, there will be an icon added. User can start the ozone generator manually in the function operation interface.



Filter time

When the system is set in timing water cycle mode, its on/off and time setting are the same as the time setting of timing heating.



Time and date set

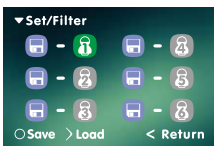
The green cursor position indicates that time character can be set. Press "▲" and "▼" to set. Press "○" to switch to next time character. Press "◀" to exit and save the setting.

Auto lock

The auto lock starting time can be set as "off", "30S", "1 min" or "3min". When the lock function is started, press continuously "○" for 3S till "Auto lock" disappears, and the panel is unlocked.

Brightness

Backlight brightness range is 1-16.

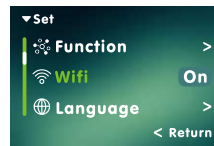


Mode

PB563 control panel has 6 different modes. Mode can save the state of the loads like pump, blower, ozone, heater, and light.

How to save mode: in the set/user mode interface, press "▲" and "▼" to move the cursor to the desired icon, then press "○" and the icons on the right side will turn blue indicating the current mode is saved.

How to call up mode: in the set/user mode interface, press "▲" and "▼" to move the cursor to the desired icon, press "▲", the icons on the left side will turn green, indicating that mode is called up. The mode icon will be displayed on the top of the main interface.



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.

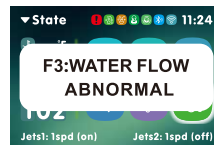
When the Wifi mode is compulsively set as AP, the wifi transceiver will be automatically disconnected and the connected the Wifi will be forgotten. When users compulsively set the wifi mode as OFF, wifi transceiver will stop working.

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.

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:



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.

**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.