

# Quick Start GUIDE

## ■ SPA-Tech control panel operation instruction



| KEY       | SYMBOL | FUNCTION        | DESCRIPTION  |
|-----------|--------|-----------------|--|
| Power     | ⏻      | Power           | Turn on/off /stand by                              |
| Jets 1    | 🌀      | Pump 1          | Turn on/off pump1                                  |
| Jets 2    | 🌀      | Pump 2          | Turn on/off pump2                                  |
| Blower    | 🌀      | Air Blower pump | Turn on/off blower                                 |
| Light:    | ☀️     | Lighting        | Turn on/off light, and set light mode              |
| Mode      | ✳️     | Mode            | 1.Sleep/economy/standard mode<br>2.Yes/no          |
| Time      | 🕒      | Time setting    | Time setting                                       |
| Warm      | 🔥      | Warm            | Adjust Time/Temp(+)/<br>Select modes               |
| Cool      | ❄️     | Cool            | Adjust Time/Temp(-)/<br>Select modes               |
| Time+Warm | 🕒 + 🔥  | Time+Warm       | Reverse/non-reverse time<br>and temperatue display |
| Warm+Cool | 🔥 + ❄️ | Warm+Cool       | Panel Locked(PL)/unlock panel                      |

### NOTES:

- Above guide is used to Spa-Tech C-II control panel only.
- Key "Jets 1" : If it controls a 1 speed pump, it functions "Turn on/off" for this pump. If it controls a 2 speed pump, it functions "Turn on at high speed/turn to low speed/turn off".

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## ■ Stand-by / Power on ( ⏻ )

- Stand by:** The SPA will automatically go into stand-by mode when the spa is properly supplied with power. In the stand-by mode, the current temperature will appear on the LCD screen, and the Thermostatic function and filtration cycle will get started as per the default setting. No back light on the screen.
  - Note: In the stand-by mode, except "Power" button and "Time" button, no buttons are available.
- Power on:** Press the power button, the screen will be illuminated and all the buttons on the panel are available.
  - Note: When leaving the spa run for one hour without touching any panel's buttons, the system will automatically go into stand-by mode, and the screen light will be turned off.



## ■ Temperature setting ( 🔥 + ❄️ )

- The SPA comes with thermostatically controlled heater; set the temperature from the control panel, when the actual temperature is lower than the set temperature, the heater will automatically turn on to heat the spa water.
  - Note: Only the spa equipped with heat pump have the cooling function.
- In the power on mode, the screen displays the actual water temperature. When "Warm" or "Cool" button is pressed, the digital number showing the set temperature will flash, press "Warm" or "Cool" again to change the set temperature. After 5 seconds, the digital numbers will stop flashing and begin to display the current spa temperature, temperature setting complete.
- To raise the set temperature press the "Warm" button. To lower the set temperature, press the "Cool" button. The temperature set point (set temperature) can be adjusted from 10°C to 40°C.

## ■ Systemic time setting ( 🕒 + ✳️ )

Press "Time" button, the current time will be displayed. Program the clock by pressing the "Mode" button and the digital display window will display a digital clock with the HOUR setting flashing. Use the "Warm" or "Cool" buttons to change to the correct HOUR. When the HOUR is correct, press the "Mode" button to save changes and go to minutes setting. Use the "Warm" or "Cool" Buttons to change to the correct MINUTES. When the MINUTES are correct, press the "Mode" button to save changes and complete the time setting.



### Note:

- The time displayed in the screen is 12-hour clock, AM means "before midday", and PM means "after midday".
- If the HOUR and MINUTE of the time don't need to be changed, press "MODE" twice to skip it;
- Program the time setting as per the above procedures, if leaving the buttons alone for 5 seconds, you will exit the time setting.
- The clock will remain ticking when the spa is turned off or powered off suddenly, no need to adjust the time when the spa is turned on again.

## ■ The filtering cycle setting ( 🕒 + ✳️ )

- The SPA will run the automatic filtering cycle 2 times in 24 hours. By running the filter system, the spa will be sterilized and filtered.
- The default setting of filtering cycle will be operated from 8:00 to 10 AM and 20:00 to 22:00 PM. The customer can reset it through the control panel.
- There is 5 steps to set the filtering cycle, including the time setting of spa, start time for the 1st filtering cycle, end time for the 1st filtering cycle, start time for the 2nd filtering cycle and end time for 2nd filtering cycle.



### Details are as follows:

When the spa is on, press "Time" button to set the time of spa, press "Mode" button, the control panel will show "Filter 1, start time". You can set the start time for 1st filter cycle. Please set it referring to the time setting of spa. When the setting is finished, press "Mode". Then the control panel will show "Filter 1, end time" to set the end time of 1st filter cycle. You can set the start time and the end time of 2nd filter cycle step by step. When the setting is finished, press "mode" button. The control panel will show the water temperature. The setting of filter cycle is done.

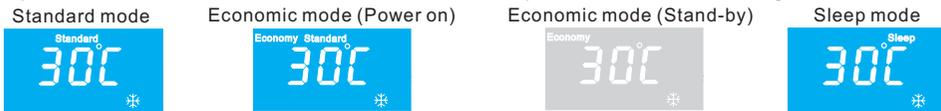
### Notes:

- Only the hours can be set for the filter cycle.
- If you don't want to change the setting, please press "Mode". If it is stopped or no operation within 5 seconds during the setting. The system will exit the setting automatically. And the setting is failed.
- The filter cycle has to be run when the spa is stand-by mode. In this case, the control panel will show O3. When the spa is powered on, the filter cycle will not be operated.
- Different time setting will be recommended. If the time setting is same, only 1 time filter cycle will be operated.

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### ■ Mode setting ( )

- There is 3 modes with the spa, including Standard, Economic and Sleep modes.  
Standard mode: Heater is run to maintain the desired temperature.  
Economy mode: When the spa is stand-by, it only heats the water during the filter cycles.  
Sleep mode: The heater will be turned on when the water temperature is lower than 11 degree.



Press "Mode" button to enter the mode setting. Press "Warm" button or "Cool" button to select the mode, then press "Mode" button to confirm the selection.

Notes: When the spa is in Economy mode, it will show "Standard" mode when the SPA is powered on and the control panel light is on. The control panel will show economy mode when the control panel light flash and it will work in Standard mode. When the SPA is powered on, the signal of Standard mode will disappear and it will come to Economy mode.

### ■ Light Setting ( )

Press the button "Light" to turn on the light, once again to turn off the light, press the button again to turn the light and change into another mode.

### ■ Massage automatically turns off

The Jest1 \ Jets2 and Blower will automatically turn off if have 15 minutes without press button. If need to use, please press the relevant button again.

### ■ Digital diagnostics function

The control system will automatically turn on the protect function after error message appear on the LCD display if there is probably something wrong with the spa. you can refer to "Trouble shooting" to deal with these problem or provide these information to your dealer.

### ■ Hose and pipe clearing cycle

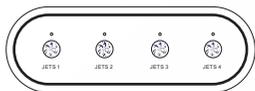
One minute after the filtration cycle has started; the system will automatically turn on the blower and the massage pump for 2 minutes to purge the hydraulic circuits.

### ■ Memory function:

The system will revert to the last setting after each power on.

### ■ Expanding function of the control panel (suitable for luxury panel)

Luxury control system can control not only the main control panel for standard equipment, but also can control auxiliary control panel and independent control panel. It can maximum control 4 massage pump through by the auxiliary control panel. Independent control panel can specially control the option equipment by itself.



auxiliary control panel



Independent control panel

Note: The luxury control system can control up to one auxiliary control panel and 5 independent control panel.

### ■ Night light function (suitable for luxury panel)

Luxury main control panel, auxiliary control panel and independent control panel are all have high brightness LED backlight, it will convenience to operate the control panel at night.

### ■ Default setting

- Temperature: 38°C.
- Model: Standard model.
- First filter cycle (filter 1): (8:00AM-10:00AM or 8:00-10:00).
- Second filter cycle (filter 2): (8:00PM-10:00PM or 20:00-22:00).

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### ■ PROBLEM SHOOTING

- Message E1-> Means the water temperature sensor 1 protection.  
Phenomenon: Control panel display E1, none of the keys respond. The circulation pump works for 1 minute and then stops.  
Causes: 1. The connection between the temperature sensor 1 and main PCB loosed.  
2. Temperature sensor 1 fault.  
Solutions: 1. Tighten the temperature sensor 1 and control panel following the wiring diagram.  
2. Replace the temperature sensor 1.
- Message E2-> Temperature sensor 2 protection.  
Phenomenon: Control Panel display E2, none of the keys respond. The circulation pump works for 1 minute and then stops.  
Causes: 1. The connection between the temperature sensor 2 and main PCB loosed.  
2. Temperature sensor 2 fault.  
Solutions: 1. Tighten the temperature sensor 2 and control panel following the wiring diagram.  
2. Replace the temperature sensor 2.
- Message E3-> Heat pump Temperature sensor protection.  
Phenomenon: Control Panel display E3, none of the keys respond. The circulation pump works for 1 minute and then stops.  
Causes: 1. The connection between the temperature sensor and main PCB loosed.  
2. Temperature sensor fault.  
Solutions: 1. Tighten the temperature sensor and control panel following the wiring diagram.  
2. Replace the temperature sensor.
- Message E4-> Water level sensor protection.  
Phenomenon: Control Panel display E4, none of the keys respond. The circulation pump works for 1 minute and then stops.  
Causes: 1. The connection between the water level sensor and main PCB loosed.  
2. Water level sensor fault.  
3. Water in the spa is lower than the minimum water level.  
Solutions: 1. Tighten the connection between water level sensor and main PCB.  
2. Replace the water level sensor.  
3. Fill the spa water till it is over the minimum water level.
- Message E5-> High voltage or low voltage protection.  
Phenomenon: Control Panel display E5, none of the keys respond. The circulation pump works for 1 minute and then stops.  
Causes: 1. Power supply voltage is higher/ lower than the spa rated voltage.  
2. power receptor in PCB fault.  
Solutions: 1. Cut off the power supply, check and make sure the power supply according to Spa rated power supply requirement.  
2. Contact your dealer, replace the PCB.
- Message E6-> Water flow switch protection  
Phenomenon: Control Panel display E6, none of the keys respond. The circulation pump works for 1 minute and then stops.  
Causes: 1. The connection between the water flow switch and main PCB loosed.  
2. Water flow switch fault.  
3. Circulation tube blocked with air.
- Solutions: 1. Tighten the connection between water flow switch and main PCB.  
2. Replace the water flow switch.  
3. Check and make sure all the side check valves are fully open. Uptight the slipknop of the circulation pump to drain out the blocked air in the plumbing.
- Message E8-> Heat pump compressor high/low pressure protection.  
Phenomenon: Control Panel display E8, none of the keys respond. The circulation pump works for 1 minute and then stops.  
Causes: Heat pump compressor high/low pressure.  
Solutions: Shut off the power supply, disconnect the heat pump, check if the power cables and signal cables are correctly connected, if the problem persists, contact your dealer.
- Message E9-> Inadequate water flow or incorrect water level protection.  
Phenomenon: Control Panel display E9, none of the keys respond. The circulation pump works for 1 minute and then stops.  
Causes: Inadequate water flow or incorrect water level protection from heater.  
Solutions: 1. Power off, refer to the solution of E4/E6 message, rewire and check.  
2. If the problem persists, contact your dealer.
- Message C - Low temperature protection.  
Phenomenon: Control Panel display C message, none of the keys respond, circulation pump is working, and heater is working automatically.  
Causes: 1. Actual water temperature  $\leq 7^{\circ}\text{C}$ .  
2. Temperature sensor fault.  
Solutions: 1. Heater will heat till the spa water temperature has arisen up to  $9^{\circ}\text{C}$ , then the message "C" disappears.  
2. If the actual temperature stays below  $7^{\circ}\text{C}$  for long time, please contact your dealer.
- Message H-> High temperature protection.  
Phenomenon: Control Panel display H message, none of the keys respond, heater stops working, circulation pump working automatically.  
Causes: 1. The detected water temperature  $\geq 43^{\circ}\text{C}$ .  
2. Temperature sensor fault.  
Solutions: 1. Shut off the power and wait till spa water temperature  $< 41^{\circ}\text{C}$ .  
2. If the problem persists, contact your dealer.
- Message HH-> Over heat protection  
Phenomenon: Control Panel display HH message, none of the keys respond, and all the equipments are shut down.  
Causes: 1. The detected water temperature  $\geq 47^{\circ}\text{C}$ ;  
2. The temperature sensor fault.  
Solutions: 1. Cut off the power supply, wait the water to cool down  $< 41^{\circ}\text{C}$ .  
2. If the problem persists, contact your dealer for help.
- Message PL-> Control panel locked  
Phenomenon: the screen displays PL message, all the buttons are unavailable  
Causes: The panel is locked;  
Solutions: Press the button "WARM" and "COOL" simultaneously to unlock the panel.