

# MSPA-MP-AS SPA PACK

• Gecko Electronics Inc. •



The **Quick Reference Card** provides a quick overview of your spa's main functions and the operations accessible with your digital control pad. Note that some functions require the use of the TSC-4 keypad (10 keys). \*

## Starting Pump 1:

**Dual-speed pump system:**  
Press **Pump 1** to turn Pump 1 on at low speed. Press a second time to turn pump to high speed. A third time turns pump off.

**Single-speed pump system:**  
Press **Pump 1** to turn Pump 1 on. Press a second time to turn Pump 1 off.

In both cases, a built-in timer turns Pump 1 off after 20 minutes, unless it has been manually deactivated.


 The "Pump 1" icon lights up when Pump 1 is on. With a dual-speed pump, it will flash when Pump 1 is on at low speed.

## Starting Pump 2:

**Dual-speed pump system:**  
Press **Pump 2** to turn Pump 2 on at low speed. Press a second time to turn pump to high speed. A third time turns pump off.

**Single-speed pump system:**  
Press **Pump 2** to turn Pump 2 on. Press a second time to turn Pump 2 off.

In both cases, a built-in timer turns Pump 2 off after 20 minutes, unless it has been manually deactivated.

 The "Pump 2" icon lights up when Pump 2 is on. With a dual-speed pump, it will flash when Pump 2 is on at low speed.

## Starting the blower:

Press **Blower** to turn blower on at high speed. Press a second time to turn blower to low speed. A third time turns blower off. A built-in timer automatically turns blower off after 20 minutes, unless manually deactivated first.

 The "Blower" icon lights up when blower is on at high speed. It flashes when blower is on at low speed.

## Real-time clock \*

Use **Clock** key to set real-time clock. The display toggles every 5 seconds alternately showing the hourly time and the current water temperature.

## Setting water temperature:


Use **Up** or **Down** arrow key to regulate water temperature. The temperature setting will be displayed for 5 seconds to confirm your new selection.

 The "Set Point" symbol indicates the desired temperature, NOT the current water temperature!

Water temperature can be adjusted by 0.5° increments from 15 to 40° C (59 to 104° F).

## Automatic water heater start:

When water temperature is 0.5° C (1° F) lower than the Set Point, the heater will automatically turn on until water temperature reaches Set Point plus 0.5° C (1° F).

 The "Heater" icon lights up when the heater is on. It flashes when there is a request for more heat but the heater has not yet started.

*Note: If your system is configured in Low Current mode, the heater will not start if two pumps or more are running at high speed.*

## Water level sensor

If the system is equipped with an optional water level sensor and the sensor detects an insufficient level of water in the tub, the system will prevent pumps from starting and will display the "H2O" message. Pumps will be allowed to turn back on when water level returns above sensor.

## Turning the light on:

**Two-intensity spa light:**  
Press **Light** key to turn light on at high intensity. Press a second time to turn light to low intensity. A third time turns light off.

**One-intensity spa light:**  
Press **Light** key to turn light on. Press a second time to turn light off.

In both cases, a built-in timer turns light off after 2 hours, unless manually deactivated first.

 The "Light" icon is displayed when light is on at high intensity. It flashes when light is on at low intensity.

## Troubleshooting



**Pumps have started up for one minute on several occasions and "Filter Cycle" icon is flashing.**

Not a bug but a feature!

Our **Smart Winter Mode** protects your system from the cold by automatically turning pumps on for one minute several times a day to prevent water from freezing in pipes.

**The display is flashing.**

A power failure has occurred. Press any key to reset the system, then re-program all desired parameters.



**Water temperature is flashing.**

Water temperature in the spa has reached 44° C (112° F).

Do not enter the water! Allow water to cool down. The system will reset itself when water temperature reaches 43° C (109° F).

Call your dealer or service supplier if problem persists.



**3 flashing dots are displayed.**

A problem has been detected.

Do not enter the water! Check and open water valves. Clean filter if necessary. Check water level. Add water if needed.

Shut power off and power your spa up again to reset the system.

Quick Reference Card





TSC-4 keypad is mandatory when some options are selected. \*

## Filter cycles

The system automatically performs 2 filter cycles per day, at 12-hour intervals. During a filter cycle, Pumps 2 & 3 and blower run for one minute. Pump 1 then runs at low speed for the remaining of the cycle and "Filter Cycle" icon lights up. (If system is equipped with a circulation pump, all pumps and blower run for one minute. Circulation pump then runs for the remaining of the cycle and "Filter Cycle" icon lights up.)

### Setting filter cycles:

- Fd10** 1- Press **Filter** key.  
2- The display will show **Fdxx**, with "xx" representing the duration in hours.  
3- Use **Up** and **Down** arrows to change setting.
- FS06** 4- Press **Filter** key again.  
5- The display will show **FSxx**, with "xx" representing the delay before cycle starts.  
6- Use **Up** and **Down** arrows to change setting.  
7- Press **Filter** key to store settings.

**40-minute filter cycle time-out:** If you turn a pump, blower or light on during a filter cycle, the cycle will be interrupted and will only resume 40 minutes after the system has turned the last active output off.

## Purge cycles

During a purge cycle, pumps and blower run for two minutes and "Filter Cycle" icon lights up.

### Setting purge cycles:

- P 24** 1- Press **Filter** key.  
2- The display will show **P xx**, with "xx" representing the currently set number of daily purge cycles.  
3- Use **Up** and **Down** arrows to change setting.  
4- Press **Filter** key to store settings.

*Note: The system may be installed to support 24-hour filtering with a circulation pump. In this case, pressing **Filter** key will allow you to set the number of purge cycles per day.*

## Boost filtration mode

This function allows you to speed up filtration after intensive use of your spa or to mix chemicals. Simply keep **Pump 1** key pressed down for 5 seconds. Pump 1 will run at high speed for 45 minutes and "BOO" message will be displayed. Ozonator is also activated.

## "CF" message

Every two weeks, the "CF" message will be displayed indicating to clean the filter (depending on your spa configuration). Press any key to reset the message.

## Inverted display

Press and hold **Light** key for 5 seconds to invert the display. If a power-up occurs, the display always returns to default mode.

## Standby mode

Press and hold **Filter** key for 5 seconds to turn off all outputs for 60 minutes. Press key again to return to normal mode. The display will toggle between the "SbY" message and time remaining when in standby mode.

## Digital control pad lockout

This function allows you to prevent unauthorized parameter setting of the unit. This feature is especially helpful when young children have access to the keypad.

There are two modes you can choose from: *Full lock* or *Partial lock*. *Full lock* means that all keypad functions are locked. *Partial lock* means that the basic functions of the spa will remain accessible (pumps, blower and light), but it will be impossible to change the temperature Set Point, to override the Economy mode or to enter the Programming mode.

When control pad is locked, the "Lock" icon will be displayed.

### Locking your digital control pad:

- LocP** 1- Press and hold **Econo** key for 5 seconds.  
2- The display will show **LocP**, with "P" representing *Partial lock*.
- LocF** 3- Release key and keypad will be in *Partial lock* mode. Press key for 5 more seconds if you want to unlock keypad.  
4- Press and hold **Econo** key for 10 seconds.  
5- The display will show "LocF", with "F" representing *Full lock* mode.  
6- Release key and keypad will be in *Full lock* mode. Press key for 5 more seconds if you want to unlock keypad.

When control pad is locked, all automatic functions of the system run as usual. If a key is pressed down, a "LocP" or "LocF" message will be displayed for 1 second.

## Economy mode

To save energy, the Economy mode Set Point is 11 °C (20 °F) below the Normal mode Set Point.

- The "Economy Mode" icon lights up when Economy mode is on.

### Setting Economy mode:

- Ed12** 1- Press **Econo** key.  
2- The display will show **Edxx**, with "xx" representing the Economy mode duration.  
3- Use **Up** or **Down** key to change setting.
- ES20** 4- Press **Econo** key again.  
5- The display will show **ESxx**, with "xx" representing the delay before mode starts.  
6- Use **Up** and **Down** arrows to change setting.  
7- Press **Econo** key a third time to store settings.

**40-minute Economy mode time-out:** If you turn a pump, blower or light on while Economy mode is on, the Economy mode will be interrupted and will only resume 40 minutes after the system has turned the last active output off. The "Econ" message or "Economy Mode" icon will flash, depending on your system configuration.

## Summary of control panel parameters

- Fdxx** Filter cycle duration
- FSxx** Filter cycle delay
- LocX** Control pad lockout
- Edxx** Economy mode duration
- ESxx** Economy mode delay
- P xx** Purge cycles

