

Control Panel Messages

Messages During Spa Start-up

1 Pr Priming mode When spa is first actuated, it will go into priming mode. The priming mode will last for up to four minutes and then the spa will begin to heat and maintain the water temperature in the Standard mode.

Note: You can avoid priming problems by following these steps during priming mode.

1. Press the JETS button to turn on the pump and let it run for 10 seconds. The pump should be running in low speed.
2. Press the JETS buttons again and let the pump run in high speed for 10 seconds.
3. Press the JETS button again to turn off the pump. The pump should be left in the off position for 10 to 15 seconds.
4. Repeat steps 1 through 3 until water is flowing through all the jets and all air is removed from the plumbing.

2 -- Temperature measurement After the pump has been running for two minutes, the temperature will be displayed.

3 87 Temperature display **(Sample temperature shown at left)** The spa's water temperature will constantly display during normal operation.

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Operation Modes

Message	Operation Mode	Description in Manual (Page No.)
Ec	Indicates heater is in Economy Mode.	10
SL	Indicates heater is in Sleep Mode.	10
ST	Indicates heater is in Standard Mode.	10

Periodic Reminder Messages (applies to 9800 system only)

Press the "Mode" button to reset a displayed reminder.

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Message	Frequency	Action Required	See Spa Manual Page No.
rPH	Every 7 days	Test and adjust pH levels.	16
rSA	Every 7 days	Test and adjust chemical levels.	16
rCL	Every 30 days	Remove, clean, and reinstall filter.	19
rtg	Every 30 days	Test and reset GFCI per manufacturer's instructions. Drain and refill spa.	4, 20
rdr	Every 90 days	Drain and refill spa.	20
rCO	Every 180 days	Clean and condition spa cover.	25
rCH	Every 365 days	Install a new filter.	19

Diagnostic Codes

Message	Meaning	Action Required
	Power has been cut off to the spa.	The control panel will be disabled until power returns.
dr	Insufficient water detected in heater. Spa will be shut down for 15 minutes.	Check water level in spa. Refill if necessary. Make sure pumps are been primed and filter cartridges are clean. Press any button to reset or wait 15 minutes and spa will automatically reset. If message spa does not reset, call customer service.
dry dY	Insufficient water detected in heater. Spa is shut down. (Displays on third occurrence of dr message.)	Follow directions for dr message and press any button to reset spa. Spa will not automatically reset when dry or dY is displayed.
HL HFL	A difference in readings between temperature sensors has been detected indicating a possible water flow problem.	Make sure spa is filled to proper level and that pumps are primed and filter cartridges are clean. Press any button to reset spa. If message does not reset, call customer service.
IC ICE	Potential freeze condition detected.	No action required. The pumps and the blower will automatically activate regardless of spa status.
LF	Persistent low flow problems. Heater is shut down, but other spa functions continue to run normally. Displays on the fifth occurrence of the HL or HFL message within 24 hours.	Follow action required for HL or HFL message. Heating capacity of the spa will not reset automatically. Press any button to reset.
OH OHS	Overheat protection. The spa has shut down. One of the sensors has detected that the spa water is 110°F.	DO NOT ENTER THE WATER. Remove the spa cover and allow water to cool. At 107°F, the spa should automatically reset. If spa does not reset, shut off the power to the spa and call customer service.
HH OHH	Overheat protection (spa is shutdown). One sensor has detected 118°F (48°C) at the heater.	DO NOT ENTER THE WATER! Remove the spa cover and allow spa to cool below 107°F (42°C). Press any button on the topside display to reset spa. If spa will not reset after spa has cooled, turn off power for approximately 30 seconds and then turn power back on. If display message is repeated then shut the power off to the spa and call customer service.
SF	Safety Suction. Spa is shut down.	The display will show SF when a vacuum switch closes. All functions will turn off and the system will be disabled. Check drains and filter well to make sure there are no obstructions or debris. Press any button to reset.
SA Sb SNA Snb	Spa is shut down. The sensor that is plugged into the sensor "A" or "B" jack is not working.	If the problem persists, call customer service. (May appear temporarily in an overheat situation and disappear when the heater cools.)
Sns Sn	Sensors are out of balance. <ul style="list-style-type: none"> • If this is alternating with the temperature, it may just be a temporary condition. • If the display shows only this message (periodically blinking), the spa is shut down. 	Call customer service.

