



Aqua Spa Pak  
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### Applied Computer Controls (ACC)

- **CoLd** : Temp in heater housing is below 40° F. Low speed / circ pump will operate continuously until the temp rises above 45° F.
- **OH** : Overheat. Spa temp over 108°.
- **HLoH** : Hi Limit Over Heat. Hi limit sensor is disconnected, shorted, or spa temp is above 112° F.
- **SEoP** : Sensor open or disconnected. Heater disabled but spa operational.
- **SESH** : Sensor short, nonfunctional. Heater disabled but spa operational.
- **PSoC** : Pressure switch open with circulation pump.
- **PSoL** : Pressure switch open with low pump.
- **PSoH** : Pressure switch open with high pump.
- **ToE** : Time out error. Rare system error.

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### Balboa Error Codes

- **pd**: Power supply on battery
- **OH**: Sensors reading 112-118F
- **OHH**: Overheat. One sensor has detected 118°. Spa has shut down.
- **OHS**: Overheat.. One sensor has detected 110°. Spa has shut down.
- **Flo**: flow/pressure switch error
- **Cool**: Water temp 20 degrees below set point
- **ICE**: Potential freeze condition
- **Sn1**: Hi-limit sensor failure
- **Sn3**: Temp sensor malfunction
- **Sna**: Sensor A fail
- **Snb**: Sensor B fail
- **SnS**: Sensors out of balance. If alternating with temp, may be temporary condition.
- **HFL**: Substantial difference between temp sensors detected. Could indicate a flow problem
- **LF**: Persistent low flow problems. (Displays on the 5th occurrence of "HFL" message with

### Gecko Accessory Codes

- **P1, P2 or P3-ER**: Pump 1,2 or 3 failure
- **CP-ER**: Circ pump failure
- **BL-ER**: Blower failure
- **O3-Er**: Ozone error
- **A1/A2-ER**: Aux. system error
- **FN-ER**: Fan failure
- **FB-ER**: Fiber optic failure
- **SC-ER**: System learning failure

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### Hercules Error Codes

- **OH**: Spa temp exceeds acceptable limits
- **FLO**: Flow problem
- **ICE**: Freeze condition detected
- **SN1**: Hi-limit sensor failure
- **SN2**: Temp sensor failure

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### Hurricane Error Codes

- **PS**: Flow/pressure switch fail
- **SH**: Shorted sensor
- **OP**: Open Sensor Degrees
- **LO**: Temp below 60 degrees
- **HL**: Temp above 118 degrees
- **OH**: Spa temp exceeds limits
- **FLO**: Flow problem
- **ICE**: Freeze condition detected
- **SN1**: Hi-limit sensor failure
- **SN2**: Temp sensor failure

24 hours). Heater is shut down, but other spa functions run normally.

- **dr**: Inadequate flow in heater.
- **dry**: Inadequate flow in heater. (Displays on third occurrence of "dr" message)
- **Pr**: When spa is first actuated, it will go into Priming Mode
- **---**: Unknown water temp.
- **Std**: Spa operating in Standard Mode.
- **Ecn**: Spa operating in Economy Mode.
- **SE**: Spa operating in Standard-in-Economy Mode.
- **ILOC**: Interlock failure - possible pump/ozone spike

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### Brett Aqualine Error Codes

- **OH**: Temp exceeds 118 F
- **Fr**: Freeze condition - temp below 40 degrees
- **FL**: Pressure switch failure
- **EO**: Shorted temp sensor
- **E1**: Open temp sensor
- **E2**: Shorted hi-limit sensor
- **E3**: Open hi-limit sensor
- **E4**: Shorted flow switch
- **E7**: Improper electrical connection

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### CTI Error Codes

- **th1/39**: temp probe problem
- **th2/current temp**: temp probe problem
- **th3/39**: water temp below 39° F
- **OH**: water over 112° F. System will restart when temp. drops
- **hot**: water over 112° F. System will restart when temp. drops
- **HL**: High limit switch tripped

### Hurricane Error Codes

- **C**: Celsius
- **CL**: Current Time of Day
- **ECdu**: Economy Mode Duration
- **Econ**: Economy Mode Turn On
- **F**: Fahrenheit
- **Fldu**: Filter Cycle Duration
- **Flon**: Filter Cycle Turn On
- **FLC**: Pressure Switch Alarm
- **FLO**: Pressure Switch Alarm
- **FrEE**: Freeze Protection Alarm
- **HL**: High Temp Alarm
- **Loc**: Panel / Keypad Locked
- **PrH**: Temperature Sensors Alarm
- **Prr**: Temperature Sensors Alarm
- **Tu**: Temperature Set Celsius
- **Tu**: Temperature Set Fahrenheit

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### Jacuzzi Error Codes

- **OH** : Overheat Protection (Heater is deactivated, pumps low speed is activated)
- **COOL** : temp 20° F cooler than set point
- **FLO\*** : Flow Switch (heater is deactivated. Pump may also be deactivated)
- **FLO2** : Closed or shorted flow switch on system startup
- **Hold** : Panel pressed too many times in a short period of time
- **HOT** : Circuit Board temp exceeded acceptable limit
- **ICE** : Freeze protection.No action is necessary
- **I CE2** : Freeze protection.No action is necessary
- **PnL** : Communication error between the panel and circuit board
- **----** : "Watchdog" problem detected
- **Sn1** : Open/Shorted sensor
- **Sn3** : Open /shorted sensor FLO2: Closed/shorted flow switch at startup

## Dream Maker Error Codes

- **OH:** Overheat 108° F, spa is deactivated.
- **FL:** Flow. Pressure switch not working
- **SN:** Non functional high temperature sensor. Heater is deactivated
- **F2:** 4 hours daily filtration
- **F4:** 8 hours daily filtration
- **F6 :** 12 hours daily filtration
- **FC :** continuous filtration

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## EasyPak Error Codes

- **C:** Celsius
- **CL:** Current Time of Day
- **ECdu:** Econo Mode Duration
- **Econ:** Econo Mode Turn On
- **F:** Fahrenheit
- **Fldu:** Filter Cycle Duration
- **Flon:** Filter Cycle Turn On
- **FLC:** Pressure Switch Alarm
- **FLO:** Pressure Switch Alarm
- **FrEE:** Freeze Protection Alarm
- **HL:** High Temperature Alarm
- **Loc:** Panel / Keypad Locked
- **PrH:** Temperature Sensors Alarm
- **Prr:** Temperature Sensors Alarm
- **Tu:** Temp Set Celsius
- **Tu:** Temp Set F

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## Vita Spas Error Codes

- **HiLi:** Water tem over acceptable limit
- **BJ2P:** Pump/Blower purge - normal condition
- **FP:** Freeze protect mode - temp under acceptable condition
- **SS=0;SS=S;LS=O;LS=S :** Multiple causes; open sensors, bad connection or voltage

## Pinnacle Spas Error Codes

- **OH:** Temperature has exceeded 110° F
- **SN:** Sensor failure
- **FL:** Flow/pressure switch stuck in closed position

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## Spa Builders Support Error Codes

- **Sn1:** Nonfunctional high temp sensor.
- **Sn2:** Nonfunctional temp sensor.
- **FL1:** Water flow problem, pressure switch malfunction. Check for low water level and ensure pump is primed. Check for clogged filter
- **FL2:** Pressure switch problem. Switch closed while pump is deactivated
- **COL:** Cool condition. If water temp drops 20°F below set temp, low speed pump and heater activates to bring temp within 15° of set temp
- **ICE:** Freeze condition. 55°F detected. Low speed pump and heater will activate until spa reaches 65°F
- **OH:** High temperature condition, has reached 110°F. Low speed pump (and air blower if equipped) will activate to lower temp
- **---**: "Watchdog". Water temp has reached 118°F.

## Gecko

- **AOH:** Temp in Equipment compartment too high
- **FLO:** Pressure switch failure, switch open
- **FLC:** Pressure switch failure, switch closed
- **FrE:** Possible freeze condition
- Flashing Display
- 3 Flashing Dots
- 3 Flashing Dots & LED
- **HL:** Sensor measuring 119F
- **Prr:** Temp sensor failure
- **Prh:** Hi-limit sensor failure

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### Gecko SP Codes (Spa Packs)

- **SP-HR:** hardware error
- **SP-BR:** breaker setting too low
- **SP-IN:** Input voltage low
- **SP-F1,F2 or F3:** Fuse 1,2 or blown
- **SP-OT:** Temp inside skirt high
- **SP-OH:** Water temp over 112F

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### Gecko RH Codes (Heater)

- **RH-HR:** Heater Hardware error
- **RH-NH:** Heat attempted & failed
- **RH-NF:** No flow in heater
- **RH-NC:** Comm error to Pack
- **RH-HL:** Heater Hi Limit

## Spa Quip Error Codes

- **err 1 (H2O) :** Prime Failed
- **err 3:** Stuck Button
- **err 4 :** No Water Sensor
- **err 5 :** Over temp
- **err 6 :** Thermal Cut Out Tripped
- **err 7 :** Stuck Relay
- **err 8 :** No Temp Data
- **01:** Stuck Button
- **02:** No Controller Data
- **03:** Temp Sensor
- **04:** Water Sensor
- **05:** Spa Over Temp
- **06:** Heater Thermal Cut Out
- **07:** Stuck Heater Relay
- **09:** Water Prime Failed

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## Sundance Spas Error Codes

- **COL:** Temp 20F below set point
- **ILOC:** Interlock failure - possible pump/ozone spike
- **FLO/FL1/FL2:** Flow/Pressure switch malfunction
- **Hold:** Panel buttons pressed too many times/quickly
- **HOT:** PCB temperature above acceptable limit - air blower on
- **ICE:** Potential freeze condition
- **Pnl:** Communication between PCB and panel interrupted
- **Sn1:** Hi-limit sensor failure
- **Sn3:** Temp sensor failure
- **---**: "Watchdog" problem detected (possible temp /hi-limit error)

## Alphabetical Error Code List

* * * (3 flashing dots under temp display)	Flow/Pressure switch either Open or Closed Circuit
* * * (as above, plus illuminated red LED on PCB)	High Limit Fault
- - - - , - - -	'Watchdog' - 48C reached, electronic fault, shuts system down. Major Fault
- 01	Hi-Limit fault
- 02	Temp sensor fault
- 03	Flow/pressure switch open
- 04	Flow/Pressure switch closed
- 07	Hi-limit fault
---	"Watchdog" (spa is deactivated) A problem has been detected (most likely a bad temp or hi-limit sensor/probe) or Water temp has reached 118°F
---	Unknown water temperature. (Displays when first powered up after refill)
01	Stuck Button
02	No Controller Data
03	Temperature Sensor
04	Water Sensor
05	Spa Over Temperature
06	Heater Thermal Cut Out
07	Stuck Heater Relay
09	Water Prime Failed
131	Hi-limit
A1/A2-ER	Aux. system error
AOH	Temp in Equipment compartment to high
BJ2P	Hi-Limit - water temp too high
BJ2P	Pump/Blower purge - normal condition
BL-ER	Blower failure

<b>C4.4</b>	Hi- Limit
<b>C</b>	Celsius
<b>Cd, CLd</b>	Freeze Condition
<b>CE 01</b>	Stuck Touchpad button
<b>CE 02</b>	No controller Data Communication
<b>CE 03</b>	Temperature sensor fault
<b>CE 04</b>	Water Sensor/Pressure switch fault
<b>CE 05</b>	Over Temperature Condition
<b>CE 06</b>	High Limit manual reset Klixon tripped
<b>CE 07</b>	Stuck Relay
<b>CE 08</b>	Temp Sensor Fault -( Spaquip Digital 2000 MK1 sensor)
<b>CE 09</b>	Water Prime Fault - Lack of water
<b>CL</b>	Current Time of Day
<b>COL</b>	Cool condition. If water temp drops 20°F below set temp, low speed pump and heater activates to bring temp within 15° of set temp
<b>CoLd</b>	Temp in heater housing is below 40° F. Low speed / circ pump will operate continuously until the temp rises above 45° F.
<b>Cool, COOL, COL</b>	Water is 11C below set point - not a fault
<b>COOL</b>	Spa water is more than 20° F cooler than the temperature set point
<b>CP-ER</b>	Circ pump failure
<b>DR, dr, dy?</b>	Inadequate water detected in heater.
<b>dr</b>	Inadequate flow in heater.
<b>dry</b>	Inadequate flow in heater. (Displays on third occurrence of "dr" message)
<b>E###</b>	pH probe out of calibration
<b>E0</b>	Short circuit temperature sensor
<b>E1</b>	Open circuit temperature sensor
<b>E1</b>	Open temp sensor
<b>E2</b>	short circuit/closed high limit sensor
<b>E2</b>	Shorted hi-limit sensor
<b>E3</b>	Open circuit high limit sensor

<b>E3</b>	Open hi-limit sensor
<b>E4</b>	Short circuit/closed pressure/flow switch
<b>E4</b>	Shorted flow switch
<b>E7</b>	Improper electrical connection
<b>ECdu</b>	Economy Mode Duration
<b>Ecn</b>	Spa operating in Economy Mode.
<b>Econ</b>	Economy Mode Turn On
<b>EO</b>	Shorted temp sensor
<b>Er0, Er1</b>	Temperature sensor faulty
<b>Er2, Er3</b>	Hi-Limit fault
<b>Er4</b>	Flow/Pressure switch short circuit
<b>err 1</b>	(H2O) Prime Failed
<b>err 3</b>	Stuck Button
<b>err 4</b>	No Water Sensor
<b>err 5</b>	Over temp
<b>err 6</b>	Thermal Cut Out Tripped
<b>err 7</b>	Stuck Relay
<b>err 8</b>	No Temp Data
<b>Err</b>	Software Program Fault
<b>Error 3</b>	Stuck touchpad button
<b>Error 4</b>	Water sensor fault
<b>Error 5</b>	Over temperature
<b>Error 6</b>	Klixon Tripped - over temp
<b>Error 7</b>	Stuck Relay
<b>Error 8</b>	Temperature sensor fault
<b>F2</b>	4 hours daily filtration
<b>F4</b>	8 hours daily filtration
<b>F6</b>	12 hours daily filtration
<b>F</b>	Fahrenheit

<b>F</b>	Fahrenheit
<b>FB-ER</b>	Fiber optic failure
<b>FC</b>	continuous filtration
<b>FL1</b>	Water flow problem, pressure switch malfunction. Check for low water level and ensure pump is primed. Check for clogged filter
<b>FL2</b>	Pressure switch problem. Switch closed while pump is deactivated
<b>FL</b>	Flow/pressure switch stuck in closed position
<b>FL</b>	Pressure switch or flow switch failure
<b>FLC, FL2</b>	Flow/pressure switch closed circuit - debris in switch, perforated diaphragm.
<b>FLC</b>	Pressure switch failure, switch closed
<b>Fldu</b>	Filter Cycle Duration
<b>FLO*</b>	Flow Switch (heater is deactivated. Pump may also be deactivated)
<b>FLO, Flo, FL1</b>	Flow/pressure switch open circuit - lack of flow or pressure or for Sundance/Spa Builders/Balboa - Flow switch is closed circuit
<b>FLO2</b>	Closed or shorted flow switch on system startup
<b>FLO (flashing)</b>	Flow switch open circuit - Sundance/Spa Builders/ Balboa
<b>FLO</b>	Pressure switch or Flow Switch malfunction (heater and/or pump may be deactivated)
<b>Flon</b>	Filter Cycle Turn On
<b>FN-ER</b>	Fan failure
<b>FP</b>	Freeze protect mode - temp under acceptable condition
<b>Fr</b>	Freeze condition - temp below 40 degrees
<b>FrE</b>	Fr, FP Freeze condition detected
<b>FrE</b>	Possible freeze condition
<b>FrEE</b>	Freeze Protection Alarm
<b>H2O</b>	Water Prime Fault - lack of water
<b>HFL</b>	Substantial difference between temperature sensors detected. Could indicate a flow problem
<b>HiLi, HLEr</b>	Water temperature above acceptable range
<b>HL, HFL, HH, OHH</b>	High limit sensor reading 45-48C, or above - check flow

<b>HL</b>	Temp above 118 degrees. High limit switch tripped
<b>HLoH</b>	Hi Limit Over Heat. Hi limit sensor is disconnected, shorted, or spa temp is above 112° F.
<b>Hold</b>	Panel buttons pressed to many times/quickly
<b>HOT</b>	Circuit Board temperature has exceeded acceptable limit (air blower may be on). Overheating, water over 112° F. System will restart when temp. drops
<b>I CE2</b>	Freeze protection. No action is necessary
<b>IC</b>	Freeze Condition
<b>ICE</b>	Freeze condition. 55°F detected. Low speed pump and heater will activate until spa reaches 65°F
<b>ILOC</b>	Interlock failure - possible pump/ozone spike - possibly caused by faulty ozonators, pumps and equipment
<b>L1</b>	Panel Lock
<b>L2</b>	Panel Lock
<b>LF</b>	Persistent low flow problems. (Displays on the 5th occurrence of "HFL" message with 24 hours). Heater is shut down, but other spa functions run normally.
<b>LO</b>	Freeze Condition
<b>LOC</b>	Control Panel functions Locked
<b>Loc</b>	Panel / Keypad Locked
<b>LS=0, LS=S</b>	Multiple causes - open circuit sensor, faulty panel connection, improper voltage, etc
<b>O3-Er</b>	Ozone error
<b>OH</b>	High temperature condition, has reached 110°F. Spa may be partially deactivated or low speed pump (and air blower if equipped) may activate to lower temp
<b>OHH</b>	Overheat. One sensor has detected 118°. Spa has shut down.
<b>OHS</b>	Overheat.. One sensor has detected 110°. Spa has shut down.
<b>OP</b>	Open circuit sensor
<b>P1, P2 or P3-ER</b>	Pump 1,2 or 3 failure
<b>pd</b>	Power supply interrupted, unit running on battery backup

<b>PLUG</b>	Sundance/Spa Builders Service Technician's Test Plug accidentally left connected to PCB
<b>PnL</b>	Communication error between the panel and circuit board
<b>Pr</b>	System Priming - When spa is first actuated, it will go into Priming Mode
<b>Prh</b>	Hi-limit sensor failure
<b>Prr</b>	Temperature Sensors Alarm
<b>PS</b>	Flow or pressure switch failure
<b>PSoC</b>	Pressure switch open with circulation pump.
<b>PSoH</b>	Pressure switch open with high pump.
<b>PSoL</b>	Pressure switch open with low pump.
<b>RH-HR</b>	Heater Hardware error
<b>RH-NC</b>	Comm error to Pack
<b>RH-NF</b>	No flow in heater
<b>RH-NH</b>	Heat attempted & failed
<b>SA, SnA, SnH, Sb, Snb, Snt</b>	Sensor Open Circuit or faulty
<b>SC-ER</b>	System learning failure
<b>SE</b>	Spa operating in Standard-in-Economy Mode.
<b>SEoP</b>	Sensor open or disconnected. Heater disabled but spa operational.
<b>SESH</b>	Sensor short, nonfunctional. Heater disabled but spa operational.
<b>SH</b>	Short circuit sensor
<b>Sn1</b>	Hi-limit sensor malfunction
<b>Sn2</b>	Nonfunctional temperature sensor. Heater deactivated
<b>Sn3</b>	Temp sensor malfunction
<b>SN</b>	Non functional high temperature sensor. Heater is deactivated
<b>Sn</b>	Sensors out of balance
<b>Sna</b>	Sensor plugged into jack A is not working. Spa is shut down.
<b>Snb</b>	Sensor plugged into jack B is not working. Spa is shut down.
<b>SnH</b>	Hi Limit circuit open or faulty
<b>SnS</b>	Sensors out of balance. If alternating with temp, may be temporary

	condition. If display shows only this message (blinking) spa is shut down
<b>SnT</b>	Temp sensor circuit open or faulty
<b>SP-BR</b>	breaker setting to low
<b>SP-F1,F2 or F3</b>	Fuse 1,2 or blown
<b>SP-HR</b>	hardware error
<b>SP-IN</b>	Input voltage low
<b>SP-OH</b>	Water temp over 112F
<b>SP-OT</b>	Temp inside skirt high
<b>SS=0;SS=S;LS=O;LS=S</b>	Multiple causes; open sensors, bad connection to panel, improper voltage, etc.
<b>Std</b>	Spa operating in Standard Mode.
<b>th2/current</b>	On startup indicates temperature probe problem
<b>th3/39</b>	On startup indicates water temperature less than 39° F
<b>th1/39</b>	temp probe problem
<b>ToE</b>	Time out error. Rare system error. Spa unusable.
<b>Tu</b>	Temperature Set Celsius
<b>Tu</b>	Temperature Set Fahrenheit

## Flashing Light Error Codes

<b>1 flash - 3 second gap</b>	High Limit fault
<b>2 flashes - 3 second gap</b>	Pressure/Flow switch short circuit
<b>3 flashes - 3 second gap</b>	Pressure/Flow switch open circuit
<b>4 flashes - 3 second gap</b>	Open circuit Sensor(s)
<b>Flash - 1 second on, 1 second off</b>	Same as OH
<b>Flash - briefly OFF once per second</b>	Same as Sn1 or Sn3
<b>Flash - briefly ON once per second</b>	Same as FLC
<b>Blinking Power Indicator Light - Hydromate</b>	High Limit tripped or, sensor fault
<b>1 flash per second - onga 4352, 53, 95, etc</b>	Pressure switch open circuit - could also be motor, or motor thermal overload

<b>3 flashes per second - onga 4352, 53, 95, etc</b>	Electronic fault - sensor (most common cause) or PCB
<b>Green flashes - Spaquip Pulsar/2095 series</b>	Water sensor fault - lack of water
<b>Red/Green alternate flashes</b>	Temperature sensor fault, open circuit, or high limit tripped - push Reset Rod