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Spa & Hot Tub Topside Touchpad Error Messages & Fault Codes

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The spa/hot tub messages and codes listed here are a combination of error or fault codes, operational and reminder messages for ALL (that we've managed to source) brands of spa equipment from around the world, from the late 1980's to Present.

It includes brands manufactured in USA, Canada, UK, Italy, Israel, Australia, and China, including inflatable spas, portable spas and in-ground spa control systems.

Many have been used on spas sold or imported into Australia, but many others have only been used in Europe or North America. There is still a very large number of unknown Chinese spa systems we are yet to identify and acquire manuals and codes for.

Along-side each code is a brief description of its meaning.

Under no circumstances should you use this information to attempt a repair unless properly qualified to do so. We have provided this information as a reference, and for qualified tradesmen to utilise as required.

Spa / Hot Tub technicians – we can provide access to **full diagnostic manuals** covering these messages & error codes for many of the brands listed, via an app direct to your Android, iPhone, or Windows phone. Please 'create an account' on our website and follow instructions listed in the 'Trade Pages' category. Alternatively we can email them to you on request (This feature and access is only available to spa technicians).

Causes of the most common following spa / hot tub error fault codes

Flow/Pressure switch open – dirty filters, blockages, switch failure, low water level, pump failure. Flow/Pressure switch closed – switch failure, pump PCB relay stuck closed Hi-Limit fault – dirty filters, blockage, low flow, sensor fault, failed pump – sensor reads 45C+ / 112F+

Temperature sensor fault – sensor failed, low flow, incorrectly positioned sensor Over heat fault – Same as sensor fault, pump not running, relay failed – sensor reads 38-45C / 100-112F

Spa/Hot Tub topside touchpad messages and codes are listed by brands.



Gecko Aeware topside touchpad error codes & messages

in.xe and in.y series

If the code is a 'Slave' code, it's a fault with the slave unit - same error cause as the main unit

AOH or AO2 (swim spa slave) Spa pack temperature too high Prr / Pr or Pr2 (swim spa slave) Temperature sensor failure Over heat 43c OH or OH2 (swim spa slave) FLO / CFLO or FL2 (swim spa slave) Flow error LO1 FLO / LO2 FLO Flow error NO FLO Persistent flow error or HL2 (swim spa slave) Hi-limit 48c HL Hr / HR or Hr2 (swim spa slave) Internal hardware error - Thermal Fuse HR / HRA or HR2 (swim spa slave) Internal hardware error - Stuck relay FCL Pressure switch closed SPin Input voltage too low PoUP Power Up Lxx / LLxx Low level software setting UPL/BL No low level software loaded Er1 (swim spa) Communication between Master & Slave failure SLA (swim spa) Main touchpad has been connected to the slave unit Unable to select LL program - reverts to menu - faulty Slave LLxx (swim spa) LL program is not a swim spa config & slave unit detected LLEr (swim spa) StbY Standby mode OFF 30 min all outputs off Fx, FFxx Filter cycle frequency per day Filter cycle start time FSxx Fdxx, dx Filter duration in hours Economy mode on/off Economy mode start time Parts EP 0 or 1 ESxx Economy mode duration in hrs Edxx EExx Economy mode end time Econ Economy mode set rLY Stuck relay Comm Verify cable connections - communication error Connect power to 240v Supp Add fresh water HIBr / HiBr LoBr / NoBr Add BromiCharge Wipe Screen Animation Too much water on in.k1000 touchscreen Switch/Buzzer (or other random message) Touchpad factory test mode triggered – faulty touchpad

in.xm

SP-br SP-Ot SP-OH SP-Hr SP-in SP-Fx (x=1, 2, or 3) SP-OC rH-Hr rH-HL rH-nF rH-Pr rH-Pr rH-nC rH-nH rH-Id Px-Er Incorrect input current set in.xm Spa pack under spa too hot Over heat – water temp 48c Internal hardware error Input voltage too low Fuse 1-3 blown Overcurrent by more than 10% Hardware error in in.therm heater Hi-limit circuit tripped No flow detected Regulation temperature sensor failed Communication error - heater to pack Not heating – no temp increase detected No match between heater and pack models No detection of Pump current draw P1-5-Er CP-Er bL-Er Fn-Er Sc-Er LLxx Ph- xP brxx --- (after initial priming) Switch/Buzzer (or other random message)

in.xm2

rH-Id

Hr

HR

HL

OH

rH-nC Pr-r / Pr

AO-H

SP-in

NO FLO

FL-C

Sc-Er

Fr-Er Sc

Fx

bL

P9

UP-Ld

UPL B

Supp HIBr / HiBr

Comm

LoBr / NoBr

Wipe Screen (Animation)

Switch/Buzzer (or other random message)

FL-O/CFLO

LO1 FLO / LO2 FLO

No detection of current change on circ pump No detection of current change on blower No detection of current change on fan System learning error Low level software setting Incoming power - number of phases 1-3 Input current setting Possible broken or bent heater sensor pin(s) Touchpad factory test mode triggered - faulty touchpad

No match between heater and pack models Hardware error detected - thermal fuse Hardware error detected - stuck relay Hi-Limit circuit tripped 50c Overheat. Water temp at 44.5c Communication error - heater to pack Temperature sensor failed Spa pack under spa too hot Input voltage too low No flow detected Flow error Persistent flow error Flow switch closed Fuse blown F1-3 Scan error detected / system learning error Input power frequency 50/60hz out of range System scanning - 1st power up No firmware downloaded into system Programming firmware into system No valid low level software uploaded No valid low level software Verify cable connections ded Connect power to 240v

Add fresh water Add BromiCharge Too much water on in.k1000 touchscreen Touchpad factory test mode triggered - faulty touchpad



ACC topside touchpad error codes & messages

PUF MENU CANC SEND CALB FPx (1-4) SIL FPxd (1-4) SILd Post use filtration Menu access Cancel/discard changes Save changes Calibration for temp Filtration period Silence period start time Filter duration Silence timer duration



Arcadia A-tech topside touchpad error codes & messages

Low water level detected
Water temperature above 45c
Water temperature below 5c
Winter mode
Load failure
Faulty wiring detected
Low flow
Temperature difference over 5c – low flow
Reminder – test pH
Reminder – sanitise spa
Reminder – clean the filter
Reminder – test RCD safety switch
Reminder – drain / refill
Reminder – clean spa cover
Reminder – clean spa cover Reminder – treat / clean spa cabinet



Arctic Spas topside touchpad error codes & messages

Prr HL (flashing) HL (solid) FLO FLC OtH FrEEzE ProtEct (scrolling) dEcL GF LocP LocF tSt HPt Hd Temperature probe failure or disconnected Over temperature 44.5 degrees High Limit 48 degrees Flow switch open circuit Flow switch closed circuit Heater barrel rate of heating is too fast Water temp below 10 degrees – freeze protection mode Circuit breaker setting overload error Ground/Earth Fault Partial touchpad lock Full touchpad lock System testing hi-limit probe on start up Heater probe test failed – re-attach to heater Hi Limit probe disconnected pH - - - -Spa light flashing pH error – pH above 8.2 Damaged PCB processor Error code/condition present



Astrel Modo topside touchpad error codes & messages

FLC FLO Ho or HL (flashing) HoH, HOH or HL (steady) H2O HPF rPF or Prr Ferr FULL Fus1 Fus2 Fus3 Er1 Er2 Er3 Pressure / Flow Switch Closed Pressure / Flow switch Open Over Temperature 44C High Limit 55C (48C for HL) Low water level Hi Limit sensor failure Temperature sensor failure System error Compensation vat detecting water Fuse 1 failure Fuse 2 failure Fuse 3 failure Wrong pump configured with heater 2 speed pump low and high reversed Output load not detected

ustralian Spa Parts

Balboa topside touchpad error codes & messages

M7 messages

BAL

water group

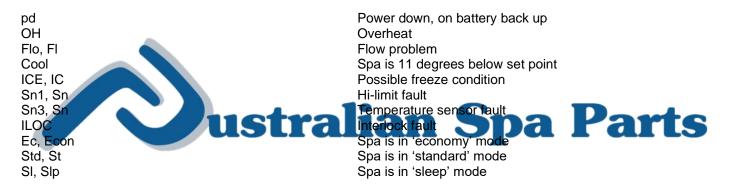
- - - or - ---F, --C, or --BUF CFE or CONFIG ERROR CrC or CHKSUM FAIL dr, HEATER MAY BE DRY WILL RETEST SHORTLY drn, DRAINING drY, dY, HEATER DRY SERVICE REQD Ecn, Ec gFI, GFCI FAILURE HFL, HL, HTR FLOW LOW Hot, HOT-CALL SVC ICE, IC, 1C, FREEZE COND LF, LOW FLOW OHH, HH, HTR TEMP LMT SERVICE REQD OHS, OH, SPA TEMP LMT PHH, PH IS HIGH LOWER PH PHL, PH IS LOW RAISE PH Pr, PRIMING MODE TAKES 4 MIN PSt, PERSIST FAIL rt9, TEST GFCI

Temperature not available Temperature not available - priming Internal problem detected Configuration error Firmware installation failure Possible inadequate water detected Indicating pump is on while draining Inadequate water detected Economy mode set Spa could not trip RCD Substantial difference between sensors Possible pump stuck on Potential freeze condition - pumps run Persistent low flow problem Overheat - spa shut down Overheat - spa shut down pH is high pH is low Initial priming mode active Hardware failure Reminder – test RCD

rCA, CHANGE MINERAL CARTRIDGE rCH, NEW FILTER rCL, CLEAN FILTER rCO, CLEAN COVER rdr, DRAIN WATER rPH, CHECK PH rSA, CK SANITIZER rtC, RTC FAILURE rtr, TREAT WOOD SAH, SANITIZER HIGH SAL, SANITIZER LOW SbY, Sy, STANDBY MODE SE, STANDARD ECONOMY SF, SAFETY FAULT SLP, SL SnA, SA, SnR, SENSOR A SERVICE REQD Snb, Sb, SENSOR B SERVICE REQD SnH Snt SnS, Sn Std, St, STANDARD StU, STUCK ON

Reminder - change Nature 2 cartridge Reminder - replace filter Reminder - clean filter Reminder - clean spa cover Reminder – drain & refill spa Reminder - test/adjust chemical levels Reminder – test/adjust sanitiser levels Hardware Failure Reminder - wood retreatment required Sanitiser level is high Sanitiser level is low Spa is in 'standby' mode Spa is in 'Standard-Economy' mode Suction protection fault Spa is in 'sleep' mode Sensor A not working Sensor B not working High Limit sensor fault Temperature sensor fault Sensors out of balance Spa is in 'standard' mode Pump appears to be stuck on

Non M7 messages (older controllers with pressure switch)



Flashing LED messages - Balboa

1 flash, 3 second gap 2 flashes, 3 second gap 3 flashes, 3 second gap 4 flashes, 3 second gap Flash – 1 second on, 1 second off Flash – briefly OFF once per second Flash – briefly ON once per second

Hi-limit fault Pressure switch closed (FLC) Pressure switch open (FLO) Temperature sensor fault Hi-limit, OH Sensor fault Pressure switch fault



onga (Balboa) topside touchpad error codes & messages

Onga 4352, 4353, 4395

LED 1 flash per second LED 3 flashes per second

Director & Turbo series

Jet LED slow Green (2-3 sec interval) Jet LED fast Green (1 sec interval) Jet LED slow Red 2-3 sec interval) Jet LED fast Red (1 sec interval)

Bathmaster Series

LED red / green flashing 'Power' indicator LED orange flashing 'Jets / Pump' indicator LED red flashing – 3 flashes Pressure switch open circuit, insufficient flow Temperature sensor or pcb fault

Initial prime fail, pressure switch open cct Pressure switch open beyond initial start Temperature sensor failed Hi-limit over temperature cut out

Low or high voltage condition Loss of prime. Pressure switch open PCB fault



Bestway Lay-Z-Spa topside touchpad error codes & messages

GCFNot grounded/earthed correctly and RED heater lightOver temp conditionAll lights flashSafety circuit operation – 'Test' bE01 (some models)System errorE03Flow sensor closed circuitE03Flow sensor open circuitE04Sofety circuit operature below 4 degrE05Water temperature over 50 degrE06Thermometer sensor faultE08Power supply faultE10High salt level alarmE11Low salt level alarmE12Signal line disconnected betwee	n touchpad and PCB
End System stops after 72 hrs operat	•



BL-46 / BL-70 / BL-80

OHOver temperatureFrFreeze condition detected 4 degreesFL / FLoPressure switch open circuitE0Temperature sensor short circuitE1Temperature sensor open circuit

E2 E3 E4 E7 Fc diS / time remaining alternating Hi-limit sensor short circuit Hi-limit sensor open circuit Flow switch short circuit Improper electrical connection Filter cycle in operation Disable / standby mode and time remaining

BL-45 / BL-50 / BL-60

All LED's Flashing Orange 98 & Red 104 Red 102 & Red 104 Orange 100 & Red 104

Other models

PCB LED flashes 1 time every 3 seconds PCB LED flashes 2 times every 3 seconds PCB LED flashes 3 times every 3 seconds PCB LED flashes 4 times every 3 seconds 48 degrees Overtemp Low Flow error Temperature Sensor fault Hi-Limit Sensor fault

High Limit condition Pressure switch closed condition Pressure switch open condition Temperature sensor fault





Custom Molded Products - Nexxus Bath Control systems

No H2O / Warning icon / pump won't operate Too Hot Insufficient water level Water temperature exceeds 43.9C



Coates heater error codes & messages





Comfort Line Products CLP topside touchpad error codes & messages

EN1 / OH EN2

CORRECT-TECH INC. QUALITY SPA CONTROLS AND EQUIPMENT Sensor 1 failure Sensor 2 failure



th1 / 39 or --- / 39 Freeze protection - temp under 39F / 4C th2 / 39 or - - - / 39 Both thermistors detecting below 39F / 4C th1 / "current water temp" or - - - / "current water temp" Temperature sensor error – connected to J2 th2 / "current water temp" or - - - / "current water temp" Temperature sensor error - connected to J1 Both thermistors detecting below 39F / 4C th3 / 39 OH or HOT Over heat 112 F / 44C HL Hi-limit 118 F / 47C HL / 210 Thermistor short circuit Electronic failure of touchpad or pcb - check J8 0 FLO or --Flow switch open circuit FLC or -Flow switch 1



istralian Spa Parts

Ampac, Aquaswim, AquaPacific Davey Spa-Quip topside touchpad error codes & messages

Pulsar, 2095 & Intuitive Series

Red/green flashing on two LED's Green/Green, or Orange flashing LED Red/green flashing pump LED

Hi-limit sensor tripped, electronic fault Insufficient water detected Insufficient water detected (some models only)

Digital 2000 (stainless steel heater tube with pressure switch)

Stuck touchpad button
Touchpad Communication error
Temperature sensor failure mk2 sensor
Pressure switch closed circuit
Over temperature condition
Heater thermal cut-out overheat
Stuck heater relay

Spa Power 1000 & 2000

01	Stuck touchpad button
02	Touchpad communication error
03	Temperature sensor failure
04	Optical water sensor failure
05	Over temperature condition detected
06	Heater thermal cut-out overheat
07	Stuck heater relay
09	Prime failed, insufficient water detected
Display contrast too Light or Dark to read (SP2000)	Hold down 'Display' button and Up or Down to adjust

Spa Power 400, 500, 600, 601, 750, 800, 1200

Error 1 (H2O or Drimo Foiled)	Drime foiled insufficient water detected
Error 1 (H2O or Prime Failed)	Prime failed, insufficient water detected
Error 2 (Spa Power 800 & 1200 only)	Variable Speed Drive fault
Error 3	Stuck touchpad button
Error 4	Optical water sensor failure
Error 5	Over temperature condition detected
Error 6	Heater thermal cut-out overheat
Error 7	Stuck heater relay
Error 8	Temperature sensor failure
Error 9 (Spa Power <u>800</u> &1200 only)	Clock fault
Warning 1 (Spa Power 800 & 1200 only)	Temperature sensor failure (pool OR heater)
Ht.d (Spa Power 500 only)	Heating mode - Demand Heating
Ht.F (Spa Power 500 only)	Heating mode – Filtration Only Heating
Green Pump LED flashing (SP400/600/601 only)	Sleep mode active
Display contrast too Light or Dark to read (SP800,1200	Hold down Light button and Up or Down to adjust

Xcelsior Spa Pool System QX350

Error 1 (H2O/CHE)
Error 3
Error 5
Error 6
Error 7
Error 8
Error 9

Prime failed, insufficient or 'too pure' water Stuck touchpad button Over temperature condition detected 45c Pump heater thermal cut out overheat Stuck heater relay Temperature sensor failure Heater control circuit failure

SPSVB Variable Speed Blower

Error 2 (2 LED flashes / beep) Error 3 (3 LED flashes / beep) Communication or electronic failure Stuck touchpad button



2017 Bay series spas - in.yt / in.k1000

HL CFLO FLO HR HRA OH Pr AOH FCL SPin UPL Comm Supp PoUP

High Limit 48C No flow No flow for over 2 hours Hardware error - thermal fuse Hardware error - stuck relay Over heat 43C Temperature sensor fault Elevated controller temperature Pressure/flow switch closed Input voltage low No valid software installed Communication error Connect to 240v Power Up



Eezi-Touch

Green 'Power' LED on, Blue 'Pump' LED flashing once per second Touchpad or cable fault

Sensa-Touch

Green 'Power' LED on, Blue 'Pump' & 3 x red heater LED's flashing once per second in unison Touchpad or cable fault Green 'Power' LED on, Blue 'Pump' LED off & 3 x red heater LED's flashing three times per second in unison Temperature sensor fault Green 'Power' LED on, Blue 'Pump' LED on, low & high red heater LED's flashing twice per second in unison prog -



FLUID DYNAMICS Elecro Optima Compact & Titan Optima Tecnologic Z31SE thermostat error codes & messages

noF	
E1	
EPr	

No flow - flow switch open Temperature probe Open circuit **EEPROM** memory error



Ethink topside touchpad error codes & messages

KL6600 and KL8000 series except KL6200 & KL8500B ESA Temperature sensor error Water flow sensor error

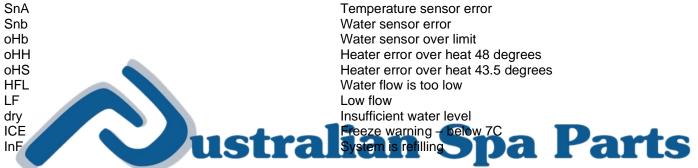
ESb

Eob EHH EoH EPL ECP EUH EUo Elo CPo LLL ICE Eln InF InP	Water flow sensor error Heater error over heat 48 degrees Heater error over heat 43.5 degrees Water flow error Water flow error High input voltage 280v High input voltage 260v Lamp current over limit Circulation pump current over limit Low water level Freeze warning – below 44F / 7C Auto moisturizing overtime System is refilling Water refilling Paused
	, , , , , , , , , , , , , , , , , , , ,
out	Auto drainage process is running

KL6200 series

E1 E2 E3 Temp Key LED flash 0.5 sec on/0.5 sec off Temp Key LED flash 1 sec on/1 sec off

KL8500B series



Temperature sensor fault

Water flow not detected

Actual temperature is higher than set temperature

1C over set temperature reached, heater off

Flow sensor fault

Ethink KL8-2 and KL8-3 series

E1 E2 EP FF Temperature sensor open / short circuit Flow sensor open circuit Low flow through Ethink heater Over temperature fault



EvoHeat heat pump error codes & messages

Fusion, Force & DHP-R Series

P01 P02	Water inlet temp sensor open or short circuit Water outlet temp sensor open or short circuit
P04	Ambient temp sensor open or closed circuit
P05	Coil temperature sensor fault
P07	Suction temperature sensor fault
P08	Exhaust temperature sensor fault
E01	High pressure switch fault or Low water flow
E02	Low pressure switch fault or Loss of refrigerant
E03	Flow switch fault or Low water flow
E06	Inlet/Outlet temp differential >13C

E07	Anti freeze protection <2C
E08	Communication error controller to PCB
E19	Primary anti freeze protection – ambient temp too low
E29	Secondary anti freeze protection – ambient temp too low
CS Series	
P01	Water inlet temp sensor open or short circuit
P02	Water outlet temp sensor open or short circuit
P04	Ambient temp sensor open or short circuit
P15	System 1 coil temp sensor open or short circuit
P17	System 1 Absorb temp sensor open or short circuit
P19	System 1 anti freeze temp sensor open or short circuit
P25	System 2 coil temp sensor open or short circuit
P27	System 2 Absorb temp sensor open or short circuit
P29 P35	System 2 anti freeze temp sensor open or short circuit
P35	System 3 coil temp sensor open or short circuit System 3 Absorb temp sensor open or short circuit
P39	System 3 anti freeze temp sensor open or short circuit
P45	System 4 coil temp sensor open or short circuit
P47	System 4 Absorb temp sensor open or closed circuit
P49	System 4 anti freeze temp sensor open or short circuit
P101	System 1 economizer inlet temp sensor open or short circuit
P102	System 1 economizer outlet temp sensor open or short circ.
P151	System 1 coil inlet temp sensor open or short circuit
P181 P182	Discharge 1 temp sensor open or short circuit System 1 exhaust high temp protect/Compressor high amps
P191	System 1 using side anti freeze temp sensor fault
P201	System 2 economizer inlet temp sensor open or short circuit
P202	System 2 economizer outlet temp sensor open or short circ.
P251	System 2 compressor over current protection
P281	Discharge 2 temp sensor open or short circuit
P282	System 2 exhaust high temp sensor / compressor overheat
P291 P351	System 2 using side anti freeze temp sensor fault System 3 coil inlet temp sensor open or short circuit
P391	System 3 using side anti freeze temp sensor fault
P451	System 4 coil inlet temp sensor open or short circuit
P491	System 4 using side anti freeze temp sensor fault
E03	Water flow failure
E04	Electrical heat overheat fault
E05	Protection system fault
E06	Inlet / outlet temp differential too high, low water flow Communication failure between controller and PCB
E08 E11	High pressure 1 switch fault
E12	Low pressure 1 switch fault
E19	Primary anti freezing protection
E21	High pressure 2 switch fault
E22	Low pressure 2 switch protection
E29	Secondary anti freeze protection
E31	High pressure 3 switch fault
E32 E41	Low pressure 3 switch fault High pressure 4 switch fault
E41 E42	Low pressure 4 switch fault
E151	System 1 compressor current protection
E171	System 1 anti freeze temp sensor open or short circuit
E251	System 2 compressor current protection
E271	System 2 anti freeze temp sensor closed or short circuit
E371	System 3 heat source side anti freeze / low water flow
E471	System 4 heat source side anti freeze / low water flow



Fasco pump motor error codes & messages

imPower Lockout Codes (on numerous variable speed pool pumps)

None 1 blink 2 blinks 3 blinks 4 blinks 5 blinks 6 blinks 7 blinks 10 blinks Eeprom load failure Micro processor failure Under voltage below 180v AC Temperature – over 100C or under -20C Over current tripped Over voltage above 269v AC Shaft seized Self check – self testing failed Motor fault – phase disconnected Other fault

GAO ER DA GAO ER DA – GD topside touchpad error codes & messages HEAT ICE CLDF LD F E1, FF Water pump or tap ICON flashing Thermometer ICON flashing Hi-limit over 45c Water temperature below 5c Circulation pump problem / flow problem Load Failure – faulty pump, heater, etc Temperature sensor failure Water level too low Low flow

Thermometer ICON flashing CALB S.C.



Swift River Spas

Temperature calibration mode

System wiring fault

Gatsby topside touchpad error codes & messages

Imperial Spas

dCP FC FLO Ht HtS-OHt OHt tS-0-tS tS-255-Ht-OHt PS1 PS2 No DC power at master relay Freeze condition under 15 degrees C No circ pump current draw Over 43 degrees C Open hi-limit sensor Short hi-limit sensor Overheat 48 degrees C Open temp sensor Short temp sensor Pressure switch closed Pressure switch open



Gecko topside touchpad error codes & messages

FLO Flow / pressure switch open circuit FLC Flow / pressure switch closed circuit Err Electronic software error Prr Regulation temp sensor failure HL Hi-limit sensor failure Possible freeze condition FrE * * * 3 flashing dots on display FLO or FLC * * * with red LED lit on pcb Hi-limit sensor failure 0.0/32F Regulation temp sensor failure H₂O Insufficient water level BOO Pump 1 boost mode CLE, CF Reminder - clean filter SbY Spa is in 'standby' mode - 1hr shutdown LOC Touchpad panel keys locked Touchpad partial lock LocP / LoP LocF / LoF Touchpad full lock Filter cycle duration in hours Fxx. Fdxx dxx, Fdxx, Fsxx Filter cycle start delay in hours Pxx Purge cycle duration in hours Exx. Edxx Economy cycle duration in hours Edxx, Esxx Economy cycle start delay in hours Orxx (2.5-9) Over range beyond normal temp limit (not a fault) CAL Calibration error Suspend mode - Pump 2 Button may be stuck SUS - - - - F **Dimension One Spas Communication Error** istralian Spa Parts

Hercules topside touchpad error codes & messages

OH FLO ICE SN1 SN2 Over temperature condition detected Flow problem Freeze condition detected Hi-limit sensor failure Temperature sensor failure



Hot Spring Spas & Tiger River Spas topside touchpad error codes & messages

'Ready' & 'Power' Logo lights flashing 'Power' blue light flashing 'Power' light flashing Pressure switch open circuit Hi limit fault – spa hi limit or heater hi limit Spa cabinet door open / faulty magnetic door switch





Hot Spot Spas & Solana Spas topside touchpad error codes & messages

'Ready' icon flashing _ _ _ _ & power icon flashing =:=:=:= = = = = & power & ready icons flashing = = = = ----- & power & ready icon flashing

Control sensor open or short circuit Hi limit (nothing operates) Pressure switch open circuit Pressure switch open circuit Pressure switch closed circuit Pressure switch closed circuit



Hurlcon Astral topside touchpad error codes & messages



Hurricane topside touchpad error codes & messages

Pressure switch failure Shorted sensor Open sensor Low temp, potential freeze Hi-limit Overheat Flow problem Freeze condition detected Hi-limit sensor failure Temperature sensor failure

HYDROQUIP Hydroquip topside touchpad error codes & messages

FLO FLC HL, PrH Prr

Flow / pressure switch open circuit Flow / pressure switch closed circuit Hi-limit, OH sensor failure Regulation temp sensor failure

FrEE Loc CL Econ ECdu Flon Fldu * * * 3 flashing dots on display * * with red LED on pcb 0.0 / 32F Possible freeze condition Touchpad key lock Current time of day Economy mode on Economy cycle duration Filter cycle turn on Filter cycle duration in hours FLO, or FLC Hi-Limit Regulation temp sensor failure



Infinity Megastore topside touchpad error codes & messages

HLW-15B

COOL FREEZING ERR E1 Anti freezing mode – power off Anti freezing mode – power on Temperature sensor probe failure Temperature sensor probe failure



Intex Purespa topside touchpad error codes & messages

E90	No water flow
E91	Low salt alarm
E92	High salt alarm
E94	Low temperature under 4C
E95	Temperature too high
E96	System error
99	Temperature sensor fault
END	After 72 hours of heating, system hibernates



Jacuzzi Hot Tubs topside touchpad error codes & messages

OH COOL FLO Hold Over Temperature detected Water temp is 11 degrees below set point Flow / pressure switch open circuit Panel buttons pressed to frequently HOT ICE ICE2 PnL Sn1 Sn3 FLO2 PluG PCB temperature too high Freeze protection Freeze protection Touchpad – pcb communication error 'Watchdog' major fault, spa de-activated Hi-limit sensor failure Temperature sensor failure Shorted flow / pressure switch Test sensor plug left plugged in after service



Joyonway topside touchpad error codes & messages

F1

F2

F3

F4

F5 F6

F8

F9

Temperature sensor open circuit Temperature sensor closed circuit Temperature too high Temperature too low Auto reset thermoswitch open Manual reset thermoswitch open Eprom memory error System settings error



OFF PSI LO HI, HAUT LOC RA P S SC C	Temperature below lowest set point 20C Low/no water pressure Low water temperature detected High water temperature detected Lock mode – press up or down to unlock Temperature range access Pool range 20-31C Spa range 20-40C Set point mode Temperature scale access Celsius scale
F	Celsius scale Fahrenheit scale

LaMotte ColorQ error codes

Er3 Er7	Insufficient light reaching detector Blank not properly set, dirty tube, damaged tube
SUN	Bright sunlight penetrating chamber.
Lo	Result is below measuring range
Hi	Result is above measuring range
bAt	Battery is low
bLA	Set 'Blank'

LEN GORDON Genuine Len Gordon topside touchpad error codes & messages

Spa touchpads

Flashing display 00

Lennovator

NC SP PO	
-	
OP	
SH	
НС	
Р	
-P	
Femperature flashing on/of	f
VAIT	

Damaged temp sensor or heat circuit failure Memory loss – reset required

No communication Spa mode Pool mode Data is being sent to master unit Temperature sensor open circuit Temperature sensor short circuit Overheat – water temperature over 120 F Insufficient Power Freeze point High water temp 109 F – 120 F Valve turning or fireman's timeout



HI / temp display – alternating J11 J12 PSC PSO Flashing 'heat' light Hi-limit fault above 117F / 47C Over temp above 112F / 44C Temp sensor plugged in Jack 11 is faulty or dangling Temp sensor plugged in Jack 12 is faulty or dangling Pressure switch closed Pressure switch open Hi-limit fault on older units – reset with light or pump key

Parts



Monarch Spas, Paramount Pool Equipment, S&P Ultima Micro Controlled Spa Command Centre topside touchpad error codes & messages

'Heater On' LED Flashing

Temperature sensor fault



MSpa topside touchpad error codes & messages

FEF	Filter Pump system failure
FEF0	Filter system short circuit
FEF1	Filter system open circuit
FEF2	Overcurrent / Blocked pump
FEF3	Water pressure switch open circuit
F1	Water pressure switch open circuit
F2	Filter system open circuit
F3	Overcurrent / Blocked pump
F4	Filter system short circuit
F7	*Possible pressure switch short circuit
BBF	Blower failure
BBF0	Blower short circuit
BBF1	Blower open circuit
BBF2	Blower overcurrent
CEF	Communication error between panel and pcb
HEF0 / HFB	Heating system short circuit
HEF1	Heating system open circuit
HEF2	Heating system overcurrent
SPL/E0	Temp below 0c – Freeze condition
SPH / E0	Abnormally high temperature detected 60c
E1	Low water pressure / level
E2	Low water level / detect function failure
E3	System Failure
E4	Heater failure
E3 flashing	Press On/Off, C/F, and Temp+ sequentially to reset
Tietra	lian Spa Parts
	nan opa i arts
	—
Pahlén 💞	
awimming pool aquipmont	

swimming pool equipment

Pahlen Electric Heaters

E1	
E2	
E6	
E7	
E10	
E12	
HC	
HP / Hi	

Low / No Flow Temperature sensor fault Hi-Limit thermostat open circuit Control circuit contactor, overheating limit control Pump is inactive Communication error High temperature on pcb 40C Overtemperature condition 45



Peips Spas – France

Water tap icon crossed out HH H Low water level Overheat 45C High Limit 42C Cold - under 0C Temperature sensor or PCB failure Filter cycle active



Perfect Spa Pool topside touchpad error codes & messages

EE01 EE02	Temperature sensor failure High Limit – over 42C
EE03	Low water level
EE04	Insufficient/no water pressure
EE05	Heater fault
EE06	Circulation pump fault
EE07	Jet 1 pump fault
EE08	Jet 2 pump fault
EE09	Air blower fault
EE10	Light fault
EE11	Ozone fault
Reset	Hold 'P' for 5 secs



FL

Sensor failure Flow switch closed

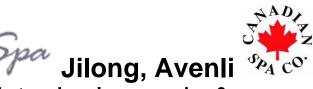


Presair topside touchpad error codes & messages

Er ΗI Lo FC FL FL (flashing) Fr

Topside or control failure or temp sensor not connected Temp over 44.4C Temp under 7.2C Filter cycle Flow error or pressure switch fail Pressure switch closed Freeze protection mode - very low temp detected





Jilong Prompt Set topside touchpad error codes & messages

Older units

E5 NO Heating – flow / thermal tripped	E1 E2 E3 E4 E5	Temperature sensor fault Temperature Protection Sensor Fault (HL) High Temperature Protection (OT) over 38C Low Temperature Protection under 20C No Heating – flow / thermal tripped
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2014+

E1	Temperature sensor open/short circuit
E2	Temperature sensor open/short circuit
E3	Temperature exceeds 45 degrees C
E4	Temperature under 2 degrees C
E5	Temperature over 50 degrees C
E6	Pressure switch open circuit
E7	Dry Run – lack of water
CH6 FIL (CHG FIL) 👝	Filter clean reminder 150 hrs. Hold 'heat' 5 sec.
BUB	Massage pump on



Blue Lagoon Spas, Oceane Spas S&G Spa topside touchpad error codes & messages

E0 or E1 (depending on model) E1 or E0 (depending on model) Filtration pump icon flashing Temperature sensor open circuit Temperature sensor short circuit Low flow – press on/off to reset



Softub topside touchpad error codes & messages

IPS or IP5 LED display flashing 00 P01 SP1 Insufficient power supply voltage Water too hot or control fault Touchpad connection fault Heat call exceeds 4 hours without increase in temperature Special temp mode set to 40.5C or 41C

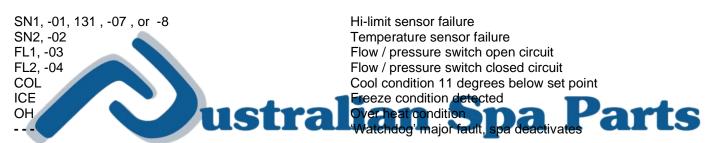
SOWO topside touchpad error codes & messages

E0 E1 P1 P2 P3 H1 B1 S1 FF Temperature sensor short circuit Temperature sensor open circuit Pump 1 fault Pump 2 fault Pump 3 fault Heater fault Blower fault Low water level Temperature sensor not connected



Spa Builders topside touchpad error codes & messages

LX Series



Class Series (Gecko)

FLO FLC Err Prr HL FrE * * * 3 flashing dots on display * * * with red LED lit on pcb 0.0/32F H2O BOO CLE, CF SbY LOC LocP / LoP LocF / LoF Fxx, Fdxx dxx, Fdxx, Fsxx Pxx Exx, Edxx Edxx, Esxx Orxx (2.5-9) CAL SUS - - - - F

Flow / pressure switch open circuit Flow / pressure switch closed circuit Electronic software error Regulation temp sensor failure Hi-limit sensor failure Possible freeze condition FLO or FLC Hi-limit sensor failure Regulation temp sensor failure Insufficient water level Pump 1 boost mode Reminder - clean filter Spa is in 'standby'mode - 1hr shutdown Touchpad panel keys locked Touchpad partial lock Touchpad full lock Filter cycle duration in hours Filter cycle start delay in hours Purge cycle duration in hours Economy cycle duration in hours Economy cycle start delay in hours Over range beyond normal temp limit (not a fault) Calibration error Suspend mode – Pump 2 Button may be stuck **Dimension One Spas Communication Error**



spaGEAR – Monarch Pool Systems topside touchpad error codes & messages

EC LP 00

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Start up checks in progress Insufficient water in heater Temperature sensor fault Flush cycle active



Spanet topside touchpad error codes & messages

In addition to the below error codes, both XS & SV series have a 'heartbeat' LED that flashes to indicate the error condition. On, Off, On, Off is normal. 'On, On, On, Off, On, On, On, Off' indicates error 3.

XS series

ER-2 ER-3 ER-4 ER-5 ER-6 ER-7 ER-8 99.9	Heater sensor plug connection fault Water prime failed, insufficient water Heater thermal trip, over heat Over temperature. Sensor reading over 45c Heater temperature sensor failed In-pool sensor failed Controller software fault, stuck heater relay Temperature sensor failed
SV Series ustra	lian Spa Parts
ER-2	Heater sensor failed
ER-3	Water prime failed, insufficient water
ER-4	Heater thermal trip, over heat
ER-5	Over temperature. Sensor reading 45c
ER-6	12v overload – too many LED lights
ER-8	Stuck heater relay
ER-10	Over current – excessive power draw
99.9	Temperature sensor failed

SV Heat Pump

HEAT PUMP AMB HEAT PUMP COND HEAT PUMP FLOW HEAT PUMP LOW P HEAT PUMP HIGH P HEAT PUMP COMP HEAT PUMP EXCH

Ambient thermistor sensor error Condenser thermistor sensor error No water flow detected Compressor low pressure switch open Compressor high pressure switch open Compressor thermal cut out open Heat exchanger thermal cut out open

& Yang Control



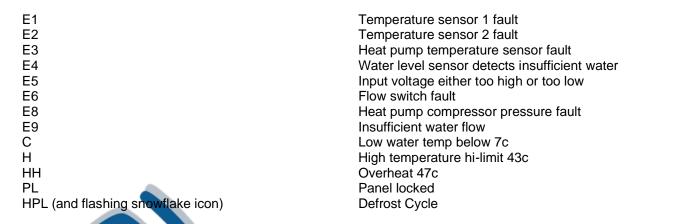
Spa-Tech &

Spa-Tech topside touchpad error codes & messages

C-1 Control System – S1 & L1 Touchpads

E0	CPU is fully loaded or loose cables
E1	Heater temperature sensor fault
E2	Heat pump temperature sensor fault
E3	Environmental temperature sensor fault
E4	Water level sensor detecting insufficient water level
E5	Unmatched power input or voltage fluctuations
E6	Water pressure sensor fault – FLO error
С	Cold / freeze – water below 7 degrees C
Н	Overheat – water temperature over 43 degrees C
HH	Overheat – water temperature over 45-47 degrees C

C-II Control System (used on Oasis Spas, Classic Spas and others)





Mode = Off Heat = Red Pump = Off

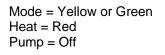
Mode = Green Heat = Off Pump = Red

Mode = Yellow Heat = Off Pump = Red Hi Limit fault

Flow/Pressure switch open

Flow/Pressure switch closed

Temperature sensor fault





Splash Pool Accessories (S.P.A.) topside touchpad error codes & messages

Temperature sensor failed

Insufficient water detected ? possibly same as HE otherwise unknown



Sundance Spas topside touchpad error codes & messages

ILOC FLO FLO2 / ICE2	Interlock failure Flashing - flow switch open, solid – closed Flow switch closed circuit
Hold HOT	Touchpad buttons pressed too frequently
ICE	PCB temperature too high Freeze condition detected
PnL / PNL	Panel – PCB communication error
Sn1	Hi-limit sensor failure
Sn3	Temperature sensor failure
COOL	water temp 11 degrees below set point
PLuG	Test sensor plug left plugged in after service
	'Watchdog' major failure. Spa deactivated
LOC	Panel locked
PF	Power Failure
blb	UV bulb/lamp replacement required



Flashing display OP or OB SP, SB, SPb 8888 Over heat 110F / 43C Open probe Short probe Voltage spike

Trinity Electronic Labs

Trinity Electronic Labs touchpad error codes & messages

Apollo 11

HEATING FILTER OVERHEAT FTR ONLY NO FLOW SENSOR FAILURE HEATER TEST PROGRAM Heater is on Filter cycle on Water temperature above 112 F Heating safety component failure – filtering only Insufficient water flow Invalid sensor value Heater not working Test mode – press / hold Jets 1 to access Program mode – press / hold Jets 1 to access



United Spas topside touchpad error codes & messages

T5 Touchpad

Over heat 48C Freeze – temp below 4C Flow switch open circuit Regulation temperature sensor failure Hi-limit sensor failure Filter Cycle

T7 Touchpad

Fr	Freeze – temp below 8C
SOH	Software Over heat – temp above 45C
HOH	Hardware Over heat – hi-limit above 46C
tS	Temperature sensor error
LS	Hi-limit sensor error
FL	Flow switch open circuit



Models A and C

PO AL PSI LO

Warning light

Overtemp 110F / 43C Alarm mode after PO. Press up or down to reset Water pressure too low Low temp below 65F / 18C. Warning lights lit = heater on.

Indicates heating or economic mode

Spas DM Industries

Vita Spas topside touchpad error codes & messages

BJ2P BLO BUS CP CS F1 or F2 or F3 or F4 FLO HC or H1 or H2 HILI Purging notification Air blower error. Fuse blown or defective blower Communication error Circulation / HEET pump fault Current sensor error Fuse 1, 2, 3, or 4 blown Pressure switch open – low flow Heater error Hi Limit senses above 112F / 44C HP HS1 HS2 ICE LB or LI LP LS1 LS2 LS LS=O LS=S O3U or O3 P1 or P2 or P3 Pb or PB or P6 PS REL SS SS=0 SS=S

High voltage observed Pump 1 high speed fault Pump 2 high speed fault Water temp below 50F / 10C Light fault Low voltage observed Pump 1 low speed fault Pump 2 low speed fault Large water sensor error Large water sensor open circuit Large water sensor short circuit Ozonator error Pump1, 2, or 3 fault Power board communication to topside error Pressure switch closed error Relav stuck Small heater sensor error Small heater sensor open circuit Small heater sensor short circuit



Water, the Liquid of Life
Waterco topside touchpad error codes & messages

Portapac SSC



Digi-Heat Heaters

nFL o/t 00 No flow detected, pressure switch open circuit Over temperature Tripped 45c Temperature sensor failed

Waterway Plastics topside touchpad error codes & messages

Neo series

Plumbing error Insufficient flow Low flow Water Overheat Heater Overheat Potential Freeze Sensor 1 open Sensor 1 short Swap sensors 1 & 3 for flow direction change No water Lack of water flow Overtemp 48 degrees reached Overtemp within heater Temp too low – freeze protection enabled sensor 1 open circuit sensor 1 short circuit Sensor 2 open Sensor 2 short Sensor 3 open Sensor 3 short sensor 2 open circuit sensor 2 short circuit sensor 3 open circuit sensor 3 short circuit

Signature Series





Zeng ZNG Spa Controls

ER2	Sensor A short circuit or water temp over 80 degrees
ER3	Sensor A open circuit or water temp below 10 degrees
ER4	Heater safety sensor short circuit or over 80 degrees
ER5	Heater safety sensor open circuit or below 10 degrees
ER6	Short Jumper/Bridge to determine fault
ER7	Open Jumper/Bridge to determine fault
ER8	Flow switch closed when there is no water flow
FLO	Flow switch open when there is water flow
HL	Hi Limit water temp over 44 degrees
FCL	Filter clean reminder message – clean filters
LOC	Full touchpad lock
3 blinks on display	Partial touchpad lock – can operate pumps, blower, light
3 horizontal lines on display	General / Technician's lock

If you have additional codes and messages for inclusion, or think our listing is incorrect, please feel free to email information to sales@spaparts.com.au so that we may correct / update accordingly.

Whilst we endeavour to ensure codes and messages listed above are correct, we cannot be held responsible for the accuracy of the information listed. The data above has been collated over many years from hundreds of sources assumed to be correct.

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