I'm not a bot



Hello all, I've been getting very frequent FLO errors on my 2002 Sundance Optima 850. I bought 2 new filters and I'm still getting the error from time to time. The only way to fix it is to remove the filter and use a plunger where the filter goes, plunge it a couple of times and then the temp shows back up on the LCD screen and I can put the filter back. Any clue what it could be? Sold or flashing FLO error?Most likely the FLO switch is faulty. Is your circulation pump running 24/7? Can you remove the side cover and see if the FLO switch is in the opened or closed position when the FLO error is there. Reactions:RDspaguy Solid FLO error on the screen. I did make sure that the FLO switch is in the right direction and I believe my circulation pump runs 24/7 (unless the FLO error is showing, then it stops) I read some other posts and inspected the flow switch and it looked a little gunked up. I unscrewed it (used a wine cork to temporarily plug the hole, lol) and scraped the gunk off of the switch. It's been working, I will keep an eye on it and if it happens again soon I'll assume the switch is going bad and I'll try to replace it. Thank you all for your help!!! Spoke too soon! I just went out there and it had the FLO error again. The FLO switch looks clean (unlike before), so I turned my breaker off and back on and now the screen is showing a FLO2 error . This is killing me! Any ideas? You sure you installed the switch back in the correct direction? Is the switch itself in the closed or opened position when the FLO or the FLO2 error is shown. If you give the switch a tap or 2, or wiggle the cables coming out of it a bit, does the error message go away?More than likely it is a bad FLO switch and easy to repair/replace yourself. Cost is about $40-50 for a switch. My suggestion is to get an original Sundance Spa one and not an aftermarket one. HiHave a 2010 Sundance Optima 880 spa (OXO3LCD-100378459-0710) giving me FLO2 error.The controller is 6600284 Rev GAfter dropping the curtain to look for the flow switch (and giving it 2 power cycles) it came back to life. When it wasnt running, flow switch openclosed once flow resumed.Ran spa for about an hour and all was well. After putting the right hand panel with the radio back together, I found the radio was not working.Went to track down 12 v but dinner was calling so I buttoned it up.Went back today to work on radio and FLO2 error was back.Opened up controller and found 30 a fuse holder charred on one end but was still passing voltage.Not wanting to add another problem should I break it, I left it for later.I found 120v on the white conductor going to the circulating pump and 120 v on the black wire coming from the terminal strip TB 404-10. Bad circulating pump?Went back to the 30 a bakelite fuse holder and popped the fuse. The feed side of the holder was melted and the retaining screw for the clip was partially pulled out and frozen in the melted bakelite. Should probably replace it once everything is back.Cleaned the fuse and the spring clipscouldnt re-install the torq holding screw for the spring clip.Sopossibly bad circulating pump? Bad 12v supply for radio?I figure you probably have a little more experience with thing than I . Thanks! I recently picked up a used Sundance spa to help with my ailing back. I wish I could tell you what year and model it is, but my best guess is that it is a Capri. It sits 3. I have noticed that that I have a constant FLO error, and the water will NOT heat unless the jets are running. I also believe that my circulation pump is causing these issues. It buzzes and is warm to the touch, but I can't feel the water moving at all. I just don't think it is working properly. It's annoying to say the least to have to go outside every few minutes to manually turn the jets on in order to bring the water temp up. I have a new filter on order right now, but I'm afraid I may have to replace the circulation pump also. If there is any more info that you guys need from me I will be happy to try and provide it. This is my first spa and I love it, but it's also a PITA with this issue. Don't get me started on the leaking either I can say that it has an 850 circuit board if that helps any. Sorry I don't have more info to provide, but I think we can figure it out. Thank you for your time.Don I have a Sundance Altamar spa, and I've occasionally had that FLO error message too in the past. If I recall it might have been caused by air in the lines (not filling tub properly?) or possibly from obstruction. I had one of the small cotton intake covers get sucked into pipes before. The service tech guy had a very quick trick to blow it out, but I forget how? Do you have the manual with schematics? I found it easily at the Sundance site online and keep a copy on my computer for reference. Nine times out of ten, a flo code means the pressure switch isn't working, and ergo your circa pump wont work right, nor usually the heat.It's a cheap part and won't take a repair guy more the 20 minutes to fix. It's worth the call unless you're handy and plan to DIY. If you DIY, you're going to need to google the make and model to get the repair manual. Guillens.com usually has good diagrams to help you identify make/model plus parts. If that doesn't fix it, then there are some tests you can do on the pump -- assuming you have two, not one. If you ave one and the jets work, it's even more likely that it's a bad pressure switch.Good luck. If the circ pump is buzzing and hot to the touch most likely it is the culprit. If you can remove the equipment access panels, locate the flow switch to see if it is in the closed position or even moving/fluctuating. The circ pumps are fairly expensive at about $175-250.Good luck! Ok, I busted out the screwdriver and flashlight to do some more digging. I removed the panel just to the right if the circuit board so I could see what was going on. The first thing I noticed was that the circ pump was smoking. I immediately turned the breaker off. Whereas yesterday it was just warm, today it was scalding hot. This leads me to conclude that the pump is responsible in some way. I think at this point since I'm neither handy or lucky, it may be easiest to replace the pump. I'm not sure I could identify enough parts on or related to it in order to fix it as opposed to just putting a new one in. It could just be a valve or clogged up with hair. I just don't know. FWIW, I found that the tub is indeed a Capri, made in 1998. I also pulled some numbers off the pump. Model is sm-909-nhw-18. Part # is 6226.9. A few other #'s I pulled were 230v, 1ph, 60hz. It also said 30 psi (2bar). I googled the model number and found quite a few options for a replacement. The cheapest replacement I found was about $100, all the way up to $200+. If it is allowed, could someone link me to a reputable site with the right replacement part so I don't buy the wrong thing? I currently have an order pending from a site that I ordered a new filter, some fix-a-leak, and a couple other items. The problem is that the only shipping option was FedEx ground, which in reality meant Smartpost. This means I might get my order by 2015. Price isn't that big an issue, but getting the correct part in a timely manner is. I just don't have enough experience ordering spa parts yet and thus don't know the good sites to use. I've worked at UPS for almost 15 years and trust them, but again, I just don't want to wait 2+ weeks for the pump to arrive. I wish I was handy enough to fix it myself as I have a feeling that it's something minor. That's just how it works for me. I apologize for the wall of text, but I wanted to provide as much info as possible so you experts can help me in the best way. In fact, I typed all this from in the spa on my phone. I'm in love with it and can't wait to gain more knowledge and get this thing working properly. I've already learned a ton by lurking and reading posts. Again, thanks to those that took the time to read all this and answer my questions. Regards,Don If you're uncomfortable ordering online, are in a hurry, and don't care about the pricing difference, why not call a local authorized dealer? They usually stock parts on their trucks. Further, it's possible it just needs a part, like an impeller. Alternately, is the online source an authorized dealer? You could simply check to be certain you're using an authorized dealer, and by phone ask to accelerate the shipping, though I personally haven't had issues with fedex ground. Based on the prices for the circ pump, though, it's likely cheaper to replace it than rebuild it, because $200 is actually cheap in hot tub land. And if the pump is 14 years old, well, decent chance it's about due for replacement regardless (though I got 17 years out of my 2 hp variable speed jacuzzi.) Hello, my problem is that I have the FLO ERROR, and I buy a new heater and a new circulation pump, and the error still there. I think because of that, the water does not heat. Thank you. I really need help pn this. Hello, my problem is that I have the FLO ERROR, and I buy a new heater and a new circulation pump, and the error still there. I think because of that, the water does not heat.Thank you. I really need help pn this. I'd guess either your system is air locked, or your pressure switch is bad. Do the jets work on high/low speed? If it is a sundance, it uses a flow switch. Is the flo error solid or alternating with the temp?Did you recently drain and fill the spa? You should always fill throught the filter pipe to ensure no air lock.Do you have ozone? If so, you should see a sream of bubbles from the small heat return jet, usually all by itself in the footwell. If no ozone, check for water coming out of that jet. Or disconnect the hose at the top of the heater until water comes out. Make sure power is off if you do that, because stuff is going to get wet (including you). Yes, I always fill the spa from throught filter, and no ozone, it jad the ozone before and I took out because was broken. The small heat return jet is working, water coming out of that jet. Everything works in the spa, the only problem is the error.There is a pic, where the ozone was connect. In the hose coming off the top of the heater is a blueish tee with a gray tube out of the top and a wire. This is your flo switch. This is likely your problem. These can fail 2 ways. 1 is a failure to close when the pump is on (flashing flo) the other a failure to open when pump us off (solid flo, no temp). Flashing flo is usually (95%) a dirty filter. It can also come up from a faulty circulation pump or other flo restriction, such as an air lock. With a new heater and pump, and the filter out with good flow, it must be a faulty switch or circuit board issue. Just to be sure, turn off power and check the main sensor plug (big gray plug with all the tiny wires in it). It has clips on each side that lock it in. Undo these by pushing back and away from the plug, they swing away like a door. Make sure all wires are tight in the plug and there is no corrosion on the terminals. If that is good, you need a new flow switch. Here is a video on how to do that. Hello, now the flow error took off but appears again when I turn on the pumps. So I try all I can do. I really need some help here. Please. The flo error stopped and the spa was heating? But if you turn on the pump it comes back? Still flashing, not solid? Did you do anything to it? No heating yet, Now I realized that I pressed the button to remove the standard, and I removed the error flo, but when I turn on the pumps the error returns and does not heat up. Page 2 Still the same issue. By putting it in economy you are changing when it allows it to heat. No call for heat, no flo error. As soon as you turn on the pump it initiates a call for heat. Either your flow switch is not closing, is not functioning, has a loose or corroded connection, or the circuit board is bad. Most likely it's just a bad switch, but check for a connection issue first, since that is free. Reactions:Deibi1016 Well, thank you for your infomation, I am about to buy a new flow switch to see if that is the problem.Thanks againg for you help. I do not know what to do. Hello good friends, my question is why the jets do not turn off, and I see some hoses that are in the air. O would like to know if these hoses have to be like that and why my jets are like that now. This is the first time that the jets are like that. And if some one can tell me how many gallon these jacuzzi has, it is a sundance spas model 750/850.Thanks The therapy jets, I do not know what speed, because I turned on the jacuzzi and the jets start. No error, just the FLO error, anand it's at weather temperature, because my heater doesn't want to work. What about the houses? The therapy jets, I do not know what speed, because I turned on the jacuzzi and the jets start. Jets will run on low speed for filtration and heating. If it is not heating it will continue to run as long as the system calls for heat in standard mode. In economy mode it only allows heating during programmed filter cycles. Hello, my friend I chenged the flow switch and the jacuzzi start to heat. Thank you for helping me. There is not more error. I appreciate all your help. Glad to hear it. Happy hot-tubbing! ? Solid flow means the flow switch is reading closed when it should be open. Did you replace the tee fitting, or just screw in the flow switch? 8 replace the tee. I bought a new flow switch. Also check is that this jacuzzi has an ozone, but it broke and the flow switch that I bought does not bring the part to connect the ozone and through that hose it is liquidating a little. How I can fix tha error.Thank you This?Jacuzzi Spa Ozone Mazzei InjectorGet this. Or just remove the mazzei valve and connect the pipes with some barb couplers, a piece of 3/4" hose and some hose clamps, all available at most hardware stores. I did exactly what you said when I got the new flow switch. I remove the mazzei and conect the flow switch directly with the hoses. How I can fix the flow error? this is frustrating, fix something and it comes out again.Thank you. That's the million dollar question right there. A new flow switch should not be giving you a solid flo error, and it can't be the board because it is a different error than before. When you first turn on the breaker does the circulation pump come on immediately or is there a delay, or does it not turn on at all? I have a 2003 Sundance Cameo. Started it up this season late, Jet 1 came on full force, couldn't be shut off, control panel inoperable. Error messages "COOL", "ICE2", AND "FLO2". I know cool and ice 2 are indications that the tub is very cold, and that is why tub turns on Jet1 and disables control panel in an attempt to heat, but heater indicator does not come on (due to flow issue. Manual says FLO2 means bad flow switch, which I just replaced earlier this year. I couldn't see any evidence of flow in the switch housing, switch was in open position. Pulled the circ pump and cleared a big glob of pine needles from the impeller, now I can see strong flow and flow switch closes. Should I just assume that flow switch has failed and is reading as closed at startup (which will give error), or could it be stuck or burned relay on motherboard which is read as closed flow switch at startup? My instinct is to again replace flow switch ($35, no big deal) and see what happens. Any advice?Alan FL1: Flow/pressure switch not closed when pump is running.Troubleshooting: Clean/replace filter, check for blockages, inspect pressure switch.FL2: Flow/pressure switch closed when pump is off.Troubleshooting: Check for debris in pressure switch, test for electrical faults.FLO: Pressure switch issue (clog/debris).Troubleshooting: Clean filter, inspect plumbing for obstructions, verify switch function.LF: Persistent low flow.Troubleshooting: Clean filter, ensure proper water level, check pump function.HFL: Heater flow issue (temperature sensor discrepancy).Troubleshooting: Clean filter, confirm adequate flow, inspect temperature sensors. Heater and Temperature Sensor IssuesSn1: High-limit sensor malfunction (spa shutdown).Troubleshooting: Check sensor connections, reset spa, replace faulty sensor.Sn3: Heater deactivated.Troubleshooting: Inspect heater circuit breaker, test heater element for continuity.OH/OHH/OHS: Overheating detected.Troubleshooting: Allow water to cool, ensure proper flow, check thermostat settings.TH1/TH2/TH3: Temperature probe failure.Troubleshooting: Test sensor resistance, replace defective probes. Other Common Errorspd: Power supply on backup battery.Troubleshooting: Verify main power source, reset control panel.Cool: Water temperature 20 below set point.Troubleshooting: Adjust heater settings, confirm heater operation.ICE: Freeze risk detected.Troubleshooting: Ensure heater is functional, increase temperature, insulate equipment.ILOC: Spa deactivated (control lock).Troubleshooting: Unlock via control panel, reset system. General Troubleshooting TipsMaintenance: Regularly clean filters and check for debris in pumps/plumbing.Sensors: Inspect wiring and connections for corrosion or damage.Power: Reset the spa by turning power off/on at the breaker.Call Live Tech 858-210-8062. 10AM-1PM San Diego Time. Have ready Year, Make, Model of your hot tub. May 7th 2025 SpaStore.com Sundance Spas has been manufacturing hot tubs since 1979. They are based out of California, and their products are sold in more than 60 countries. Sundance Spas focuses on creating acrylic spas, and they are rated as the top worldwide distributor and manufacturer of this particular style. They also produce in-ground and portable hot tub models.This award-winning company has developed their products with the benefits of hydrotherapy in mind. They also offer a complete outdoor room approach that includes wall dcor, floor coverings, accessories, furnishings and lighting. Sundance Spas has earned an A+ rating with the Better Business Bureau, and they produce energy efficient hot tubs.If you are needing a replacement hot tub cover for your Sundance Spa The Cover Guy is your answer. With all Sundance Models on file The Cover Guy can easily provide you with a new hot tub cover without you having to measure. The Cover Guy Sundance Replacement covers are the best made covers at the best price available. Your new hot tub cover will be delivered promptly right to your door.Spa Models:Select Series880 Series780 Series680 SeriesThese are the error codes and display messages that a Sundance Spa may display, along with what they mean and any actions required:Select and 780 Series Error Conditions / Error MessagesMessageMeaningAction RequiredSummer LogicSummer Logic occurs when the actual water temp for the spa climbs to 2F (1C) above set temperatures and is more likely in extremely hot weather. The condition causes the circulation pump to turn off automatically if its running in order to avoid adding additional heat to spa water that could cause Overheat conditions. This setting is not user-programmable.This condition does not kick in until the water temperature climbs to 95F (35C). The spa systems ability to cool itself down is directly affected by ambient temperatures. Very hot summer ambient temperatures can prevent the spa unit from cooling because its insulated construction is designed to minimize operating costs and hold in heat.OHOne of the sensors detected that the water in the hot tub is 112F (44C). Stands for Overheat- and the tub shuts down because water temp is too hot. Temperature is not safe. The circ. pump will stop functioning to reduce frictional heating when water temp reaches 2F (1C) more than the set temperature.DO NOT GET INTO THE WATER!Take off the spa cover to allow the water to cool down to fix the situation.Caution: Do not leave this cover off when children are present. Shut the power down to the hot tub and contact the dealer or service technician if the problem continues.Sn1Stands for Sensor 1 and displays when the high-limit sensor is malfunctioning. Indicates a shorted sensor and spa is shut down or an open sensor and heater is disabled.Contact dealer or a service technician.Sn2Stands for Sensor 2 and displays when the temperature sensor is malfunctioning. Indicates a shorted sensor and the heater is disabled.Contact dealer or a service technician.FL1 or FL2 (Flashing)When FL1 code starts flashing it means the flow switch is malfunctioning and stuck open-likely because of a dirty filter or because there is an air lock problem at the circulation pump intake.When FL2 code starts flashing it means the flow switch isnt working and it is stuck closed. In both cases, the spa heater will deactivate. In both cases, the spa heater will deactivate and main pump # 1 may do the same. The issue is caused by an excessively dirty filter cartridge that interrupts the flow of water leading to air lock conditions at the pump and malfunction of the flow switch.Check to see if the water level is below the lowest pillow but above the jets. Add water if needed.Check for dirty or clogged filter cartridge.a) Remove filter cartridge in order to purge the air lock from the circulation pump intake.b) Hold a garden hose over filter cartridge wall fitting and utilize a rag to make a seal around hose end.c) Get an assistant to help turn the water on for 30 seconds. Then turn it then turn it off.d) Replace the filter cartridge and verify the solution worked.If circulation pump is not powering on, try cutting off power at the main breaker. Turning it on will reset cycle for the circulation pump. After the pump primes itself, the error message should go away.5. Contact dealer or a service technician if problem continues.COLOccurs only in Economy mode and Indicates a cool condition where temps have dropped 20F (11C) below current settings for them. System activates the heater and jets pump 1 to bring temp within 15F (8C) of set temps.No action required, but during cold weather you may want to increase the amount of filtration cycles.ICEThis only occurs when spa is in Economy mode and stands for Ice; means the system has detected a potential condition for freezing and will cause the system to implement freeze protection to get the spa out of the danger zone.No action is needed. The main pump operates in this condition to circulate warm water throughout the plumbing until the unit is warmed up to 15F (8C) of the set temps. The water temp has raised above acceptable safety limits and triggered the safety Watchdog program of the spa system. Condition can cause injury or damage to spa and its components. The spa deactivates in this situation.DO NOT GET INTO THE WATER.Contact dealer or a service technician.BLBFlashes in between water temps and blbIndicates that spa needs a new UV bulb.Purchase new UV bulb from dealer and reset countdown timer.880 Series Error Conditions / Error MessagesMessageMeaningAction RequiredOHStands for Overheat- and the tub shuts down because one of the temperature sensors has detected that water temperatures have raised above acceptable safety limits.DO NOT GET INTO THE WATER!Take off the spa cover to allow the water to cool down to fix the situation. Shut the power down to the hot tub and contact the dealer or service technician if the problem continues.COOLPotential freeze condition detected and the System activates the heater and jets pump # 1 for protection. It happens when the spa water is more than 19.4F (-7C) colder than temperature set points. The system stays in this mode until water temps rise to 59F (15C) below the set temperature.No corrective action needed.FLOStands for Flow Switch. Means that the flow switch is malfunctioning or the flow of water is being inhibited. The heater is deactivated and filter/circulation may be deactivated, also.Check for clogged filter and proper water levels in the hot tub. See pp 60-62 of owners manual to do this. Contact the dealer or service technician if the problem continues.*Note: You may see this message after the hot tub has been drained and refilled, and the pump has not regained its prime. See page 77 of the owners manual if this is the case.HOTCircuit board temperature threshold has been exceeded. The message will go away once the board temperature cools down to acceptable limits.If you continue to see this message, provide shade for the portion of the hot tub that houses the equipment.ICEA freeze condition has been detected by the system. The jet pumps operates until the water is warmed and spa is out of danger zone.No action is needed. Note that this message may occur when the hot tub is filled for the first time because tap water is usually very cold.PFIndicates a hot tub power failure. The power is fluctuating in the 2ndary power line resulting in low DC voltage.Attempt to rest the spa power, The PF error will reset itself if power levels return to normal. Contact the dealer or service technician if the problem continues.PNLIndicates faulty communication between the spas control panel and circuit board and/or remote control panel.Contact the dealer or service technician.Sn1Stands for Sensor 1 and displays when the high-limit sensor is malfunctioning. Indicates a shorted sensor and spa is shut down or an open sensor and heater is disabled.Contact the dealer or a service technician.Sn3Stands for Sensor 3 and displays when the main water temperature sensor is shorted or disabled. The heater is disabled in this case.Contact the dealer or a service technician.FLO2 or ICE2Indicates that the flow switch is malfunctioning. The system is disabled in this case and system startup has shorted or has a closed flow switch in this situation.Contact the dealer or a service technician.BLBFlashes in between water temps and blbIndicates that spa needs a new UV bulb.Purchase new UV bulb from dealer and reset countdown timer.680 Series Error Conditions/ Error MessagesMessageMeaningAction RequiredSn1Stands for Sensor 1 and displays when the high-limit sensor is malfunctioning. Indicates a shorted sensor and spa is shut down or an open sensor and heater is disabled.Contact dealer or a service technician.Sn2Stands for Sensor 2 and displays when the temperature sensor is malfunctioning. 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The spa deactivates in this situation.DO NOT GET INTO THE WATER! Contact dealer or a service technician.BLBFlashes in between water temps and blbIndicates that spa needs a new UV bulb.Purchase new UV bulb from dealer and reset countdown timer.Sundance Spas 880 Series 2017 ManualSundance Spas 2017 Manual980 Series Sundance Spas ManualSundance Spas 680 ManualManual for Sundance Spas 780Sundance 880 Series ManualPosted by on 30th Oct 2016 An FL2 error code and FL1 error code are often confused for one another. While an FL1 error code means the spa isnt sensing enough water flow to close the flow switch, the FL2 error code means exactly the opposite. So when you are troubleshooting an FL2 error code, we want to determine why the spa thinks theflow switch, or thepressure switch, is providing a closed circuit instead of an open circuit.Generally speaking, an FL2 error code is caused by one of two components, and for three different reasons. The first reason would be that the flow switch/pressure switch has failed and is delivering a closed circuit at all times. When functioning properly, this sensor should be delivering a closed circuit only when there is adequate water flow. If thesensor is functioning normally, it should measure OL or infinite when no water flow is detected. It should read zero resistance when there is good water flow. The second reason you may receive an FL2 error is when you are actually receiving water flow and you should not be. In this case, this would likely mean a relay on the circuit board is stuck an a closed position not allowing the pump in question to shut off. This would mean thecircuit board needs replaced.The final reason you may get an FL2 code is because the circuit board may be misinterpreting the information it is receiving from the flow switch or pressure switch. While this is very rare, it would mean a circuit board replacement is necessary. That said, this is an easy error code to troubleshoot. Does that pump turn on and off like it should? Good, then test the sensor. If the sensor doesn't test like it should, then replace it. If it does test like it should, then replace the board. Now if the pump won't turn on and off like it should, then you likely have a bad board. circuit board fl2 flow switch pressure switch troubleshooting an fl2 error code Skip to main content Reddit and its partners use cookies and similar technologies to provide you with a better experience. By accepting all cookies, you agree to our use of cookies to deliver and maintain our services and site, improve the quality of Reddit, personalize Reddit content and advertising, and measure the effectiveness of advertising. By rejecting non-essential cookies, Reddit may still use certain cookies to ensure the proper functionality of our platform. For more information, please see our Cookie Notice and our Privacy Policy. Have a FLO2 error and no heat. When I disconnected the two wires going to the pressure sensor and simply connected the two ends coming from the circuit board together, the error changed to FLO and at least the display started reacting so I could turn on additional pumps etc. But still no heat. Any help would be greatthanks Skip to content Have you just turned on your HotTub and seen the FLO error? If youre here, thats probably the case. Dont worryIve got you covered! Lets explore what an FLO error in your hot tub is and what could be the possible causes for it. What is a FLO Error? A FLO error, which looks something like the picture below, is one of the most common hot tub errors. It will pop up on your control display and prevent the hot tub from heating up. You can also find me on my socials; A flow error is simply telling you that the spa pack in your hot tub cant sense water moving through the heating element. As a precaution, it turns off the pump, so it will not heat anymore. This is done because leaving a heat pump on without water flowing through it could be a recipe for disaster. Common Causes of FLO Errors There are several reasons for what could cause a FLO Error in your Hot Tub. Some of these are pretty common, while others might be more technical. Heres a list of the most common reasons for causing a FLO Error. Clogged Filter This is one of the most frequent causes of the FLO error. A clogged filter prevents water from flowing to the heat source, resulting in the error. Its very easy to do is remove the filter from your hot tub, power it down and power it up again, and see if the FLO error persists. If the hot tub turns on and runs without an error, the reason is the clogged filter, and you can have it cleaned or replaced. Lack of Water This might seem like an obvious reason, but make sure that your hot tub is filled to the top. A lack of water in the Hot Tub will prevent proper water pressure from forming and, therefore, might cause the FLO error. Airlock If youve just filled up or made some changes to your setup and are getting a FLO error after starting up your hot tub, it might be because of an airlock. The airlock prevents water from flowing through the system and must be cleared out. This is a relatively simple fix, and Ive done another video on how to fill up your hot tub properly; you can check it out here. Faulty Flow Switch/Sensor This is less common, but is another reason for the FLO Error. If your circulation pump is running, and you have visible water movement in circulation mode, then a faulty flow switch is most likely the cause. These flow switches/sensors detect water flow and ensure that a constant flow is going through the system. To test this, find the switch or sensor on your system (look at your system diagram). Once you find it, you are going to jump the two connections. Basically, take a small piece of wire and connect the red and black inputs, which will bypass the flow switch. If the error disappears, then the issue is in the flow switch or sensor. Note: Only run the jumper between the two inputs if you can physically confirm the circulation pump is running and there is a flow of water into your hot tub. Faulty Circulation Pump Another culprit for the FLO error could be a faulty circulation pump. If your circulation pump is not working, you need to check for two things. The first is to check whether your pump is humming. If you hear humming but the pump is not running, its likely due to a faulty startup capacitor. Replacing that will fix the error. The second thing to check is if your spa pack is programmed correctly. If youve recently changed your spa pack or made other changes to, it might need to be reprogrammed. Check out this video on how to reprogram your spa pack. Summary A FLO error can be annoying and confusing, but now you have a good idea of its possible causes and fixes. If the above solutions dont work and you continue to get this error, you can always reach out to me, and Id love to help! Can I Help You? If I can help you in any way I would love to hear from you. You can get in touch using the form below. Thanks - Andi Hi, Andi here. I own Buildahottub.com and also write all of the articles and info pages on the site. Some years back now, I built my own hot tub but struggled to find the information I needed. So, once my tub was complete, I started this website to help others in their own pursuit of hot tub and plunge pools DIY building information. Fast forward to 2025, I've helped over 1400+ DIY customers just like you all over the world build hot tubs and pools. Have a good look around the site, there are lots of resources here. Please do get in touch if I can help you. - Cheers, Andi Learn how Joe successfully add a hot tub to his pool! Get expert tips on […] The short answer is that it depends. Not the most helpful (yet) thing you have […] Keeping our Hot Tubs clean and germ-free is an important part of owning one. In […] Are you dreaming of having your own luxurious infinity pool but feel intimidated by the […] Can I add a hot tub or jacuzzi to my existing swimming pool? This is […] There is literally nothing more frustrating than rocking up at your Hot Tub to find […] A Hot Tub should be, as the name suggest, hot. However, most of us also […] There are a number of ways in which you can construct your walls for a […] Hi all, Sundance Spa 850 series is showing multiple errors codes and I'm not sure how to proceed. When attempting to power it up for the first time this season, I noticed the dreaded "watchdog" code on the display. I power cycled a couple of times with the same result, but I wasn't at the screen so that's all I caught. On the 3rd cycle, it instead displayed an alternating FLO2 / COOL message on the screen; I cycled a few more times to the same FLO2/COOL result. I know that FLO2 indicates a closed (or faulty) flow sensor, so I took the panels apart to inspect and the flow sensor was indeed open. I inspected the wiring and the sensor itself and didn't see any obvious issues. Upon powering it back up, I did so in a manner that I was able to view the screen and it came on displaying a temp of 93, which began to drop, 91, 87, 84, etc. to about 64, alternating the COOL message in between. This makes sense, as the water is cold. It then made a click, as though it were going to begin operating, and that's when the watchdog/"---" returns. It's doing this through a few power cycles, as it did originally. I can't imagine it's actually the flow sensor, given the inconsistent behavior. I also know that the most common watchdog event is a faulty temp sensor recording a dangerously high temp. I'm skeptical as it showed a temp of 93 and dropped consistently for a few power cycles, though I don't know why it didn't just record the temp at the start, so maybe it is faulty? Otherwise I'm fearing it may be the actual circuit board, but given that's not at all a cheap part, I wanted to see if anyone has any insights into what this may be.Thank you in advance! Every time my Capri spa was inactive for a while there would be a flo2 error. The water would be warm so it probably would kickin when the temperature of something cooled off. Powering on and off and opening up the panel and jiggling the valve would eventually work until the next long layover. Just tried a new technique and it worked perfectly without dropping the panel and banging the valve. Used a small 6 inch tall plunder that is used to unclog a sink. After making sure it was full of water put it over the placed it over the hot water output hole and pushed and pulled the plunder and immediately it freed the stuck flow valve and the error went away. Bought the sink plunger at a hardware store for under $10 dollars.

Sundance spa fl2 error. Fl2 flow error closed sundance. How do i reset my sundance hot tub. Sundance spa flo2 error. Sundance flo error. Sundance hot tub error codes. Sundance fl2 error.

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