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1 - Controller Does Not Power Up Properly 2 - Front Panel Does Not Power Up Properly 3 - Tripping Circuit Breaker 4 - All/Some Stations Not Working - Front panel indicates that stations are running but no irrigation. 5 - Key Pad Not Responding 6 - Controller Not Responding to MAXI™ Signal 7 - How to test MSP-1 Surge Arrestor 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](#). Tools Required Flat head screwdriver Philips screwdriver Digital multi-meter Clip-on fuse holder and set of alligator clips Error Codes Error: Incompatible OSM: ROM-8 being used or damaged OSM ROM Memory Error: EPROM is defective RAM Memory Error: Dallas Chip is defective Breaker Tripped: Circuit breaker is open RT Clock Error: Dallas Chip is defective No Boards Found: No OSM installed or first OSM is damaged Hardware Failure: PIB is defective or main power not clean Terminology and Acronyms Control Module Assembly = Front Panel = Faceplate Erasable Programmable Read-only Memory: EPROM Light Emitting Diode: LED Liquid Crystal Display: LCD Main Logic Board: MLB MAXI Interface Module: MIM Output Station Module: OSM Power Interconnect Board: PIB Random Access Memory: RAM, e.g. Dallas Chip Relay Output Module: ROM-8 Two-wire Interface Module: IFX Integrated Control Interface Pulse: ICI+ Rainbird timer flashes "AC OFF." Newbie needs help! Hey Guys, Ever since we moved into our home, the sprinkler system installed by the previous owner simply works, so I never bothered to learn about sprinklers. But now the timer says AC OFF, and I'm forced to go on another homeowner adventure! First thing I ruled out was the AC adapter. I bought a new one and it still didn't go away. BTW, I'm able to see the AC OFF flash because I have a 9V battery installed. Without the battery, it would be a blank screen. So I need help identifying the issue, but also learning the lingo, so I can understand what you're referring to. So I've attached some pictures with numbers. #1) These are the valves, correct? Is there a lingo for this? Valve hub? Valve station? #2) Please teach me the lingo for all the parts of these valves. • A. Green base.. any technical word for this? • B. This is where I see people turn water on and off with a long steel looking key. • C. This is an ON/OFF switch that each valve seem to have. • D. Another ON/OFF switch but looks different.. the master switch or something? • E. Black cylinder block where the wires attach to. • F. Main wire from the timer, which then spreads out like tentacles to each valve. • G. What is this? • H. Is this the same as "B" just different style knob? And here is a picture of the Rainbird ISA 304 in case you need to see what it looks like. I've since removed the 9V battery. Thank you for your time! Correct... those are the valves. Let's try to get the system running first. In the following portion of your picture you'll see a fuse. Yellow arrow is pointing towards it. That is a 500ma. (1/2amp) protection fuse. That will need to be replaced. It most likely blew out due to shorted valve wiring. The Shack should carry them. You have a four zone setup. White - common Red - zone 1 Blue - zone 2 Beige - zone 3 Gray - zone 4 There are two wires on each valve. One wire from all four valves gets connected together and gets connected to common. Each of the other wires on the valves goes to its proper zone connection. You can use a meter to check for shorts or buy a box of fuses, disconnect all four zone wires at the controller. Connect them one at a time and try that zone after connection. The shorted zone will blow the fuse out again. The short can be at the outside wiring or a shorted valve motor. Thank you! Very informative. So, buy two fuses? One to sacrifice to find out the short? Once we determine which valve, we then replace the whole thing, green base and all? Or, just the black cylinder part where the wires connect? The first fuse you listed is 500ma. The second fuse you listed is 1amp. You can't use a 1amp fuse in place of a 1/2amp fuse. As far as GMA.... is that what's listed on the unit? If not.... it will be on the fuse. It just says "Replace with 3AG 0.5amp Normal Blow." There is also a label that says 300MA, but the actual fuse says 500MA on it. A GMA fuse is a miniature fuse and is too small to snap in. A 3AG fuse would be like an AGC fuse. So you could use an AGC-0.5 or AGC-500ma. They are too small to ship for free. The Shack should have them. Possibly an auto parts store. If I'm going to replace the whole kit, how do I shop for sprinkler wires? If I have 4 stations, does that mean I'm looking for 5-conductor wires? 5 because I need one for the common connection, and four for the 4 stations? Join Date: Mar 2008 Location: United States Posts: 8,160 Received 78 Upvotes on 71 Posts Fuses are cheap I would test each circuit first. Looks like you have direct buried cable and that could lead to a lot of digging. Usually either controller or valve is bad unless you had digging in yard. Okay, I'm understanding more and more each day. The Black Cylinder things are called Solenoids. I've been able to manually operate 3 of the 4 stations. I didn't understand the second valve to the left with the nut that I labeled with the letter "G." This valve does not have the on/off lever. I finally figured out that I have to use a screwdriver to move that nut counter-clockwise to turn on the water. Coincidentally, this is also the valve with the solenoid that is completely corroded. Before I figured out the nut was the on/off switch, I tried to twist the solenoid and it completely crumbled in my hand. LOL! Without doing any testings, I think I can already guess that this solenoid is the culprit. I want to replace this solenoid, but I also want to replace the wires on all the other solenoids because they look bad. Can I replace the wires without replacing the solenoid completely? Also, no, it is not buried underground. The wires are coming from the wall from the garage. If you look at the first picture with the three white pipes. The small middle pipe with no legs is where the wires are feeding out from. You can replace the supply wiring to the splices but the solenoid wiring itself cannot be replaced as the solenoid coil is a sealed unit Okay, got my fuses from Radio Shack today, and I also picked up a Solenoid from Home Depot. Like I mentioned in my previous post, the solenoid I need to replace is on the second valve to the left in the picture I posted. It does not have one of those on/off switches. It manually switches by using a screwdriver on a nut labeled "G" in the picture. So here's my question... my other solenoids do have on/off switches. Here's a product picture from Amazon for better clarity: Solenoid with on/off. If I want to replace that solenoid, I cannot find them with the on/off switch. The Home Depot guy was also trying to find them with the on/off switch but couldn't, unless I buy the whole valve just like the Amazon product picture. But couldn't I just unscrew the solenoid part? The on/off switch doesn't need to be replaced, right? Money is not the issue, it's just the work. LOL! You simple can't unscrew the old valve, right? I have to cut the pvc and reseal? Ahhhh.... the work. You'd have to cut and reglue the fittings or you could use just the parts you need too. Join Date: Mar 2008 Location: United States Posts: 8,160 Received 78 Upvotes on 71 Posts If the valves work I would not touch them. Replace the solenoid or solenoids if necessary. Not to hard to change valves but Valves will work many years without problems and they can be rebuilt. Usually will leak before they quit working. Hey Guys, so I'm up and running again. Thank you for all the tips. I changed the fuse and the corroded solenoid, and re-spliced everything to make it nice and tidy. It's amazing what you can accomplish without understanding what it is you're doing. LOL! Having said that, what is the purpose or reason for connecting all the solenoids to a common wire? You can only run one zone at a time.... so instead of running two wires for each valve which would mean eight wires you only need five by sharing the common. A slight cost savings in the wire. Explore the Rain Bird Support Center to find manuals, literature and videos on current and discontinued Rain Bird products. Connected Product Help/Support If you have any questions or need personal assistance, please give us a call toll-free at (800) HELLO-AG (800-435-5624) Monday through Friday from 5 AM to 5 PM Pacific Time. If you have any questions or need personal assistance, please call Rain Bird Technical Services at (866) CSP-XPRT (477-9778), Monday through Friday from 5 AM to 5 PM Pacific Time. Homeowners! If you have any questions or need personal assistance, give us a call toll-free at 1-800-RAINBIRD (1-800-724-6247) Monday through Friday from 5 AM to 5 PM Pacific Time. 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