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Hardie irrigation 4000 manual

As the title says: What is the oldest equipment you've pulled out of a job? controls, heads, valves, reflux or anything in between. I'm starting. I replaced this J Hardie 4000 today. The same system also had two copper spray heads soldered on to copper risers. Not pictured (yet) but I got a customer out when I had the lawn company that had the oldie brass pop-up heads and brass manual gate valves. For what it is worth, the date on the battery was SEP 2001 What if the hokey pokey really is what it's all about?! I bet Hardie 4000 was made in California. this watch was a funny one. It always took a few minutes to remember how to program them. I would say I still run about 5 imperiales a year. There were even this one on multi-mill houses last year, which burned down. It was a weatherproof, but even simpler than the Kaiser/Rainbird Mech. I had to use the weather mathematical SL secret ampere setting to activate the higher amp old magnets. The rain clox ... I only saw that one of these imperials was very popular with the in the PNW. I remember that I thought after I had installed my first one, you met the big time, Mikie! Last edited: 24.03.2018 Was a two-hour installation for double scheduling? Back at that time I had a customer who had problems with a slow charging well. I used an Imperial 22 Zoner, even though the system was only 11. Uses the watch to delay between real zones. Worked perfectly until the next irrihack (instead of calling me) installed a 12-zoner: ran the whole place out of the water! The guy almost convinced him that he needed a new well until he called me and found out WHY the 22-year-old was going in. Yes, waste-every-number-zone-to-recharge-the-well programming was once the only option available. It required a system without a main valve or for a well water system, a pressure vessel and a pressure switch to protect the pump from dead charging time. The exception to this configuration rule was the Batrow controller, as it used the 24-hour timekeeping wheel to also time the zones as determined per in-trip pin, making it possible to use one with a relay-controlled well supply. Last edited: Mar 25, 2018 Page 2 Imperials were very popular with the in the RNW. I remember that I thought after I had installed my first one, you met the big time, Mikie! I installed more than 1000 of them in the late 60s to mid-80s. It was my sales routine to offer a lower final choice of a Richdel 306, as a middle class a Batrow or for an additional 75-125 dollars the Imperial because it was clearly a superior timer, with its ability to set zone RTs from 0-60, simply hand-installed day and start time pins and simple semi-automatic activation. In the waning days of Batrow (early 1990s) I had two customers who how they felt comfortable with them. The rotomite was cooked on both of them, so I sent them to Batrow in Short Beach CT for repair. I get a call from none other than Alice Batrow herself to tell me that they can no longer repair them as they are from most parts. I thanked you for the call and the removal of the units. She tells me she can't do that because she has to deliver it back to me. Whatever - I tell her to do this. She then asks me for money to return. I ask her why I should send her money to send back rubbish that she could just trash. She tells me that this must be done in this way. I replied: Alice-I hereby transfer the property to said timers to you. You are now your property that you are dealing with, as you see fit. She immediately starts that this is not allowed and while she is talking, I just hang up the phone. The company disappeared shortly after. It was about 40 years, but never really much changed. I installed more than 1000 of them in the late 60s to mid-80s. It was part of my sales routine to offer a lower final choice of a Richdel 306, as a middle class a Batrow or for an additional 75-125 dollars the Imperial. Many choose the Imperial because it was clearly a superior timer, with its ability to set zone RTs from 0-60, simply hand-installed day and start time pins and simple semi-automatic activation. In the waning days of Batrow (early 90s) I had two customers who used them who didn't want to change because they felt comfortable with them. The rotomite was cooked on both of them, so I sent them to Batrow herself to tell me that they can no longer repair them as they are from most parts. I thanked you for the call and the removal of the units. She tells me she can't do that because she has to deliver it back to me. Whatever - I tell her to do this. She tells me that this must be done in this way. I replied: Alice-I hereby transfer the property to said timers to you. You are now your property that you are dealing with, as you see fit. She immediately starts that this is not allowed and while she is talking, I just hang up the phone. The company disappeared shortly after. It was about 40 years, but never really much changed. I never spoke to Alice. I remember i e-mail from company about the occasional failure of the step relay to stay in sync with the pins on the gear. She more or less defended the design, saying it had a failure rate of less than one percent. My thought when reading these words was something at the level of but woe betide you if you are, as the sync error turned on the controller at midnight, and it stayed until someone turned off the controller power supply. You have tried to stay in the controller game after the Step relay has been set by the manufacturer. A relay-free design appeared that looked almost like the original, except for a 12-hour wheel instead of a 24-hour wheel. I remember receiving a letter from the company about the occasional failure of the step relay to stay in sync with the pins on the gear. I had to bend the copper actuator strips again and again into a semblance of original functionality, because customers moved the watch or the day wheel backwards. When I examined it, I asked the customer: Who touched it? to which he would answer: No one touched it? to which he would answer it? timers can't touch each other. As a codicil to my Alice conversation, she offered me more copper actuator strips that I didn't give in to. If someone is wondering why a customer wants to hold on to their Batrow controller, it is for the same reason that a customer wanted to hold on to a Weathermatic EM7 controller. Individual slide switches that can manually operate or remove a zone from automatic operation on the Batrow. If someone is wondering why a customer wants to hold on to their Batrow controller, it is for the same reason that a customer wanted to hold on to a Weathermatic EM7 controller. Individual slide switches that can manually operate or remove a zone from automatic operation on the Batrow. View Appendix 358113 No doubt, they loved this switch-easy to understand and use. Another timer of the era was the Luminite (I think that's how it's written). It also had switches and was installed by thousands of long island companies. I won't give their name, but they loved Safe-T-Lawn Ball rotors, their own stamped brass fog sprays, homemade copper tube fittings with soldered 1/2 inch copper plug adapters. The fittings were melted into polytube and sometimes (but not always) clamped. Every time you hit one of their systems, you were in to hack these funky fittings and repipe everything. I have been working on a 47-year-old HOA system for three years. There are two deep meter pits with Imperial controllers - and they were still working today when the board finally opened their wallet and jumped for new Irritrol RD-R controllers with climate logic. I haven't started the system yet because it's too early, but i've completed the timer installations by installing them outside the pits and on the buildings. Look at this baby and the old plumbing, which was partially replaced a few years before I was there in one of the pits: Do you not just love the DCVs used for irrigation? The Inspector didn't seem to care. Forty-seven years ago, many authorities were satisfied with a DCVA. I still think a hidden subtext of the modern toxic/non-toxic dividing line, is that put it into use devices had a certain ability to remain functional, even if no one ever paid attention to it. No doubt, they loved these switch-easy to understand and use. Another timer of the era was the Luminite (I think that's how it's written). It also had switches and was installed by thousands of long island companies. I won't give their name, but they loved Safe-T-Lawn Ball rotors, their own stamped brass fog sprays, homemade copper tube fittings with soldered 1/2 inch copper plug adapters. The fittings were melted into polytube and sometimes (but not always) clamped. Every time you hit one of their systems, you were in to hack these funky fittings and repipe everything. I'm not going to give her name, but I could look for her rain cloud. Page 3 This controller is not the same task as the valves. These have all been removed from the same job. Another job we did that I couldn't find the pictures was so old that all the magnets had soldered a lead to the copper tube as a common... Another job we did that I couldn't find the pictures was so old that all the magnets had soldered a lead to the copper tube as a common... We have also come across it. Older part of the city. The net and most laterals were all copper. Hated these jobs when someone dug through for something. What a terrible controller. If you set the time wheel. It tried to copy the Batrow sans rotomite. I don't really know what Lumenit e was trying to protect with her patent. You should keep the Batrows and wait for the Internet to provide you with a new Old Rotomite. No doubt, they loved these switch-easy to understand and use. Another timer of the era was the Luminite (I think that's how it's written). It also had switches and was installed by thousands of long island companies. I won't give their name, but they loved Safe-T-Lawn Ball rotors, their own stamped brass fog sprays, homemade copper jugulars and ho you hit one of their systems, you were in to hack these funky fittings and repipe everything. I found some of these fittings here on the south fork. Wasn't the name Automatic Irrigation or something? No names please, but you are in Close! Why the company would waste its time making fittings that were then sold for small bills makes no sense. No names please, but you are nearby! Why the company would waste its time making fittings that were then sold for small bills makes no sense. Their big sales hit revolved around brass and copper Fog heads, zone valves, also fittings. I suppose the fittings and their homemade valve manifolds provided some off-season work. Her big sales hit was all about brass and copper. Fog heads, zone valves, also fittings. I suppose the fittings and their homemade valve manifolds provided some off-season work. Big time. I must have replaced over the years 200. And the Lumenites. Page 4 I'm sure there who were very excited when Imperial released the dual program clock. Nothing after that really got my juices going until Hardie brought out Total Control. Of course, RainMaster came and I was spoiled for life! Digital Controller What do you think the date on this tape is Boy? It didn't work the P.A. system, but I think mid/late eighties? Did another oldie today Have what if the Hokey-Pokey is really what it's all about?! I need to get a picture, but I replaced a Vintage Rain Bird Rain Clox Controller that had 12 stations. The thing was mechanical and everything, pretty much an animal. Sprinklers seem to change so much these days that you rarely find something old, although I recently got a few Rain Bird 171 HPs and a Buckner 403 hp. These brass heads would probably sell for 50-60 dollars these days if they make them. I need to get a picture, but I replaced a Vintage Rain Bird Rain Clox Controller that had 12 stations. The thing was mechanical and everything, pretty much an animal. Sprinklers seem to change so much these days that you rarely find something old, although I recently got a few Rain Bird 171 HPs and a Buckner 403 hp. These brass heads would probably sell for 50-60 dollars these days if they make them. These old buckners were fixed units. Page 5 That's why I used Hardie watches, Total Control and of course the Touch Command, which would still be a player today with flow and ampere sensing! Still some of those Hardies out there. It seems that everything from the 80s with a red LED display lasted long into the sunset. It had a lot to do with solid state heavy American production back when things were still being done to hold. No doubt. This fella is still at my father's home and still in operation. What if the Hokey pokey is really what it's all about?! Zog this guy a few years ago, it was in a corner, 1/4 circle; on a zone with mostly full circular heads, which had been replaced by a mixture of Pgp s and rainbirds allready. It was really sucking the water and drowning this section of the farm. I think it used 9 gpm, had a really nice tho and turned well. View Attachment 358312 Pulled this guy out a few years ago, it was in a corner, 1/4 circle; on a zone with mostly full circle replaced by a mixture of pgp and rainbirds. It was really sucking the water and drowning this section of the farm. I think it used 9 gpm, had a really nice pattern tho and turned well. I found in my old stock two 1/2 circles brass weathermatics like this and a full circle brass buckner pulled out of redesigns. I brought them to the metal yard for cash a few years ago Unfortunately, I probably won't get the chance to save unless a really old property comes along. Last edited: 31.03.2018 Forget that I also had one. I remember these old Weathermatics as a kind of copy of a Thompson geared rotor, because I think they came in the same fixed arc decisions that can still be seen today in the Toro 640. At low pressure, such as from a centrifugal pump that outputs 30-35 psi, they could easily reach a radius of 40 feet, and an equal replacement could be very difficult to find. These were changed today on a system that we installed in '72/'73 old toro 510 & amp; 560. not as sexy as a vintage car, but without the heads, nothing else counts page 6 Take a Gander at this 56 year old 2 Griswold valve that I pulled out yesterday. The system is located in a two-hectare house in Northern NJ, which we have been upgrading in sections for 20 years. Previously there were 7 zones and 180 brass fog sprays on 1 hectare - now there are only 2 zones of sprays before and I added 2 zones of RB 5004 rotors over the years. There are 2 more Griswolds in operation: it's replacement was a lot of fun. I used 2 Flowspan couplings so as not to have to dig 10' of 2 poly: I also had to repipe and move the 1 poly pipes so that the flow tank had space. It is part of another zone that is not connected to this valve. The original installers, for no reason I can recognize, decided to whistle a part of this other zone and place it UNDER the 2 main line. Mainline is 18' deep across the site and laterals are 9-12 inches, so why pipe a lateral UNDER the main line? Not the paleest glimmer! Last edited: 10.04.2018 You think you don't have Griswold repair parts? It will be interesting for those who ever discovered my superior brass normally open mstr. valves need help! These wires are too far away. Blue and purple look like a cross-link waiting to happen. I would cut each of those to 1/4 of exposed wire and get them into the screw terminals It is a narrow area for sure. I take my look at the strip and ... However, I respectfully disagree. Wires do not move by themselves and the panel must be removed to gain access to the wiring. Either you know exactly what you're doing to mess up a bit anyway. We strip the wires back to alligator clip our remote control on the system. Personally, I have never seen two zone wires touch because it is too far withdrawn and that was the cause of Zones to water at once. I have seen loose connectors after a wire strip on a new controller is finished. I will not sell braids if I can only clamp on the wire These wires are separated too far. Blue and purple look like a cross-link waiting to happen. I would cut each of those to 1/4 of exposed wire and get them into the screw terminals Makes it easier to clip alligator two together during. I didn't pull it out of the ground, but it's a 35-year-old Toro 300 Stream rotor system that I installed and still maintained for my 94-year-old customer. Over the years. I've only changed a few nozzles and rinse the windshield seat on several heads. I installed a RainDial plus on it 12 years later, when the original Nelson Res 7 gave up the fight and added a rain sensor. Page 7 I haven't pulled this out of the ground, but it's a 35-year-old Toro 300 Stream rotor system that I installed and still maintained my favorite head for my 94-year-old young customer! The early ones had a lubricant inside that made their longevity. I installed a system with SRs and during the passage she said: It's like sitting by the campfire, he said: I don't think it's good to stare at her for too long. Mike, that's absolutely nice work. A lot of respect for that. I see so many terrible controller installations here, makes me cringe that someone charges the customer for it. I'm a sticker with our guys about perfect controller installations, because that's the ONE the customer will always see. My favorite head! The early ones had a lubricant inside that made their longevity. I installed a system with SRs and during the passage she said: I don't think it's good to stare at her for too long. It's certainly a Zen experience. It's certainly a Zen experience. I know from a personal conversation with one of my heroes, Ed Hunter, that he thought the SR was his greatest achievement. Toro screwed it with the patent, he tried to design an SR wish, the type R, which was a bleak mistake. Mike, that's absolutely nice work. Thank you, I was very proud of the wiring of my watches. My method was to have a table with clippers, spade flaps and 3M markers with a stool and all my files of zone call-outs nearby. During the wiring, NO ONE was to bother me: not customers, LAs, and especially employees! I know from a personal conversation with one of my heroes, Ed Hunter, that he thought the SR was his greatest achievement. Toro screwed him with the patent he tried to design an SR wish, the type R, which was a bleak mistake. You know Mike - Toro screwed himself up when they screwed Ed. A completely different competitor was born and pursues them to this day. My Toro representative brought two regional managers to meet me last summer because I've been around longer than most seen everything. I had lunch with them after showing them a 25-year-old 600 system that still works perfectly. Then I showed them some of their stiff 570s, which I regularly replace caps and seals so that they pop up and down slightly. I didn't bang a leaf in my mouth - I put it on thick with everything Toro has screwed since 1983, when they got confused with the seals on the 600s, the 570s, these shitty greenskeepers, ICs, ELs, the 284 valve, etc. I saved the coup de gras for the end. which was their lame engineer wrong stitch in the correction of the 570 seal edition in 2009 by selling the heads with hernia feathers that would not pop if the basic pressure was over 70 psi! I showed them that they only had to correct the seals that were too tight - that was it. They did so until the 2010 final. They tried to tell me that they were turning to contractors across the country, and the only feedback was to increase the spring tension. I looked them directly in the eye and said, B... S...! No self-respecting irrigation company would have dealt with the issue and said such a thing! They would have told you that you had the f... Seal. Toro could have governed the industry like MS with op systems from the 1990s onwards. But they blew it and I told the representatives the same thing. I don't think they'll invite me to a meal anytime soon. I think the Toro seal had to dance around existing patents. Not sure if the same applies today. You know Mike - Toro screwed himself up when they screwed Ed. A completely different competitor was born and pursues them to this day. I don't think they'll invite me to a meal anytime soon. Kiss the hats and T-shirts by by a well. I had the same episode with Weather-Matic. My local REP was so proud to take the factory boys to one of my big locations. I walked through the solenoid from the Hell era and ate a lot of time (and money) to change it. One of my staff found me on the spot and told me who was 'visiting'. As an Irishman, it took a short walk to build my temper. I lit up with the visitors, ashamed my REP and drove them up the driveway! No more T-shirts for Mikie! Last edited: 25.04.2018 I think the Toro seal had to dance around existing patents. Not sure if the same applies today. All they had to do was make it 2mm wider and the problem would have been solved. I do not believe that there would be a patent. The problem began when she joined in 1994 on her 570th They always mingled with seals - from 1983 to 1987 the 600s had seals, which were also too narrow, although the 1982s were perfect. it's as if bad years had for wines - when the 1988s came, the problem was fixed. Kiss the hats and T-shirts by by by as well. I had the same episode with Weather-Matic. My local REP was so proud to take the factory boys to one of my big locations. I walked through the solenoid from the Hell era, and a lot of time (and money) to change them. One of my big locations of my big locations. staff found me on the spot and told me who was 'visiting'. As an Irishman, it took a short walk to build my temper. I lit up with the visitors, ashamed my REP and drove them up the driveway! No more T-shirts for Mikie! These World Cup magnets I still see RED. Lost more than a few customers about this and I was never the installer! They called for service and I would dose them and change the boogies. A week or two would die on the vine. Customers began to accuse me even though I was in advance and gave them a price to change all on the first call while explaining the problem. World Cup was a lost thing for me. Have never installed their line and will never do. Page 8 All they had to do was make it 2mm wider and the problem would have been solved. I do not believe that there would be a patent. The problem began when she joined in 1994 on her 570th They always mingled with seals - from 1983 to 1987 the 600s had seals, which were also too narrow, although the 1982s were perfect. It's as if bad years had for wines - when the 1988s came, the problem was fixed. The original 570 seals of the early 1980s depended on a flat membrane cleaner that swiped against the piston, and the Minipaw changed all this forever, with the co-formed wiper seal. 1994 would still be the date on which this patent(s) still applied. I rather doubt that any other company would like to pay a license fee to Rainbird to use this technology if they could find a workaround or just wait for it to expire. Another half-explanation came to me by exploring why simple O-ring seals would go badly, and a detail of their manufacture requires that some rubber parts must be made a certain percent oversized so that the heated material can cool down and shrink back to speculate after the molding process. I wonder if simple temperature settings in molding machines make the difference between good and bad 570 seals. These World Cup was a lost thing for me. Have never installed their line and will never do. Yup, they had a problem, big time, with the manufactured in Mexico magnets. They replaced the thin black wire versions with a heavy black set, AND YOU WERE JUNK, as well! Eventually they pulled out the white wires and we were okay, but who knows how many customers they lost? They sent me, for free, cases and cases of magnets, but unlike Rain-Bird, when I had a problem, they never started to compensate for my time, so I assasadized the work. They sent me, for free, cases and cases of magnets, but unlike Rain-Bird, when I had a problem, they never offered to compensate for my time, so I assasadted the work. Repeat Snip Strip Twist Cap..... Repeat Snip Strip in the barrel! Not much older than this Not super old, but a classic, for sure. I had never seen or treated anything like this before. What it's all about?! Not super old, but a classic, for sure. I had never seen or treated anything like this before. What it's all about?! Not super old, but a classic, for sure. I had never seen or treated anything like this before. What it's all about?! Not super old, but a classic, for sure. I had never seen or treated anything like this before. What it's all about?! Not super old, but a classic, for sure. I had never seen or treated anything like this before. What it's all about?! Not super old, but a classic, for sure. I had never seen or treated anything like this before. What it's all about?! 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I had never seen or treated anything like this before. What it's all about?! Not super old, but a classic, for sure. I had never seen or treated anything like this before. What it's all about?! Not super old, but a classic, for sure. I had never seen or treated anything like this before. What it's all about?! Not super old, bu of thousands of the 476s are still in use in the Northeast. I come across them every day - a simple timer that simple-thinking customers can understand for the most part. Very durable until the copper starts to carry behind the slide switches - then the garbage heap safely. oh, that you're also a newer one As a rule, the plastic is oxidized and more puke yellow This was hidden in an electric cabinet of a company. It probably hadn't seen the light of day for a while. What if the Hokey pokey is really what it's all about?! Page 9 Apart from the slanted slide switches, the special Richdel controllers seem to withstand. I didn't pull it out, but came across this today any date can it. The 94-year-old man said he put the system himself in '58, but I don't know if the controller is that old. Can anyone date it? Weather-Matic, wow! Before my time. This is the time when they were players along with Imperial, Superior and a small group of others. Nice! I didn't pull it out, but came across this today any date can it. The 94-year-old man said he put the system himself in '58, but I don't know if the controller is that old. Can anyone date it? View Attachment 363466 I had a TV with UHF and FM buttons like that when I was little, LOL! What if the Hokey pokey is really what it's all about?! I didn't pull it out, but came across this today any date can it. The 94-year-old man said he put the system himself in '58, but I don't know if the controller is that old. Can anyone date it? Appendix 363466 Show yes, this is about the correct period (1958) for this Weathermatic watch. It dates back to the period before the SSR-10, which came around 1970. Page 10 Awesome!!! I love it, I exchanged this the day before yesterday. Appendix 363479 Wow-the Richdel R-412. A 12-zone beast that actually worked as a dual program. Previously and the Superior and the Imperial Valet dual programs came out when I needed dual programming on a large system it needed the installation of multiple controllers along with parallel MVs or pump start relays. Another option was to send the MV voltage from each controller to a separate relay (and then on the MV or pump start) to voltage from one controller has not swayed back into the other controller. But had to make sure the programs never overlap - a real pain in the a**. At the same time, the best way to go was to go. I haven't replaced that. But I've never seen it. WM Mech! Sun 1986 1986 Too old. It works very differently from an RB Mech Just like W*M to unite the competition's 6-zone controllers with their 7-zone controller. Gotta handed it over to the previous owner of W*M (before the Beancounter bought it), he was smart and used metal housings! Prima!!! I love it, I exchanged this the day before the vesterday. View Attachment 363479 Whenever I see one of these old multi-zone mechanics, I like to imagine that it's in the basement of an old mansion, and the zones were all brass jets on shrub risers in the beds and lawn sands everywhere, when automatic irrigation, at least in my head, was a true luxury and exotic. Whenever I see one of these old multi-zone mechanics, I like to imagine that it's in the basement of an old mansion, and that the zones are all brass jets on shrub swarms in the beds and lawn sands all over the place, when automatic irrigation, at least in my head, was a true luxury and exotic. just to find out that it was only hacked over the years, and it's been in the ground, so long it's got any kind of plastic head from the 70s until now... Installed with a mixture of plastic cut riser, some funny pipe, or some strange mix of thread adapters that all leak... lol just to find out that it has just been hacked over the years, and it's been in the ground, so long it's had any kind of plastic head from the 70s until now... Installed with a mixture of plastic cut riser, some funny pipe, or some strange mix of thread adapters that all leak... lol This is the main reason why I will never return to one of my installations. I bet this old gem is long gone. Some early plastic spray head systems were given a brass head substitution to cure a flow problem by not allowing the heads to appear. A brass spray head was usually enough to tip the scale. Flow-by was something that was not well known or properly guantified in these dark days. Page 11 Some early plastic spray head systems were given brass head substitution to solve a flow problem by not allowing the heads to appear. A brass spray head was usually enough to tip the scale. Flow-by was something that was not well known or properly guantified in these dark days. I remember the Nelson 229 plastic spray head from the 70s. It had such a heavy spring that it took road pressure above 90 to pop a standard 10 GPM zone on a 3/4 City Main. I cut the springs sometimes to reduce resistance to full extension After a year of it, Nelson came with a lighter copper spring to fix the problem, but too late - no one used his head again. It was the beginning of a long slide for the company and its products. Gotta handed it over to the previous owner of W*M (before the Beancounter bought it), he was smart and used metal housings! Agree. L.O. Snoddy (Max Snoddy's son) was a good man. This RM-7 would have been created during his time as president. Rain Bird had a patent on able to grab the station selector-number dialand and turn that World Cup was always afraid of injuries. So to select the station, you had to turn on the motor to rotate the dial. (red button). I think Imperial bypassed the patent by propelled the engine with 110 instead of 24V? Agree. L.O. Snoddy's son) was a good man. This RM-7 would have been created during his time as president. I think Imperial bypassed the patent by propelled the engine with 110 instead of 24V? I was at I.A. for the Heavy Hitters Breakfast when the new owners of W*M were introduced. I looked at them (they all met later) and thought: Bye bye Weather-Matic. Yes, Imperial hit the back, it was a pleasure to turn this dial and have it search edits for the next zone. Imperial & amp; W*M were fierce competitors, both offering state-of-the-art equipment. I never knew why Imperial went down; too good, similar to Studebaker, Packard, Hudson, and over. Last edited: 04.07.2018 I was at I.A. at heavy hitters breakfast when the new owners of W*M were introduced. I looked at them (they all met later) and thought: Bye bye Weather-Matic. Yes. Imperial hit the back, it was a pleasure to turn this dial and have it search edits for the next zone. Imperial & amp: W*M were fierce competitors, both offering state-of-the-art equipment. I never knew why Imperial went down: too good, similar to Studebaker. Packard, Hudson, and over and over. I have nothing nice to say about World Cup new owners/management. They have been on loan for two decades. Destroy a big brand. The founder of Imperial withdrew and his son took over. Son made some new products (plastic valves) that were amateurish and uncompetitive. The watches simply became too expensive to build in the early 1990s. When I installed a new watch for my father's house in the 1980s, it was, of course, a valet timer. Agree, L.O. Snoddy (Max Snoddy's son) was a good man. This RM-7 would have been created during his time as president. Rain Bird had a patent to grab and rotate the station selector dial, which was always afraid of injury. So to select the station, you had to turn on the motor to rotate the dial, (red button). I think Imperial bypassed the patent by propelled the engine with 110 instead of 24V? Sounds right-imperial wheel motor was 110 V. I was at I.A. for the Heavy Hitters Breakfast when the new owners of W*M were introduced. I looked at them (they all met later) and thought: Bye bye Weather-Matic. Yes, Imperial hit the back, it was a pleasure to turn this dial and turn it after next zone. Imperial & amp; W*M were fierce competitors, both offering state-of-the-art equipment. I never knew why Imperial went down: too good, similar to Studebaker, Packard, Hudson, and over and over, Don't forget Superior, Moody and the Nelson/Moody launches - they've also messed up the zone. My oldest Imperial Valet is still buzzing with me that I have installed in the early 1970s. Solid mechanical engineering. I have nothing nice to say about World Cup new owners/management. They have been on loan for two decades. Destroy a big brand. Unfortunately. I will update a large 167 zone HOA with (6) SL4800 controllers soon. as the cellular connection vs. Wifi is required. I have clients with SL series (which I didn't install) and they work well - the only thing I don't like is the front panel, which is disconnected from the wiring when opened. The on-board counter etc, is a nice feature, but I still like the meat and potatoes of the dosage with my Pro 93. I told the factory rep all the things I hate about WM - the short-sighted magnets, the fake spray heads etc., but I give the SL4800s a vortex as they included long-term cell service with the package. I remember the Nelson 229 plastic spray head from the 70s. It had such a heavy spring that it took road pressure above 90 to pop a standard 10 GPM zone on a 3/4 City Main. I cut the springs sometimes to allow less resistance to full extension. After a year of it, Nelson came with a lighter copper spring to fix the problem, but too late - no one used his head again. It was the beginning of a long slide for the company and its products. Was this the spray head that used its proprietary version of a 1/2-inch wafer nozzle? Just nozzles that I've ever seen that came with a seal. Was this the spray head that used its proprietary version of a 1/2-inch wafer nozzle? Just nozzles that I've ever seen that came with a seal. Was this the spray head that used its proprietary version of a 1/2-inch wafer nozzle? Just nozzles that I've ever seen that came with a seal. Was this the spray head that used its proprietary version of a 1/2-inch wafer nozzle? Just nozzles that I've ever seen that came with a seal. Was this the spray head that used its proprietary version of a 1/2-inch wafer nozzle? Just nozzles that I've ever seen that came with a seal. Was this the spray head that used its proprietary version of a 1/2-inch wafer nozzle? Just nozzles that I've ever seen that came with a seal. Was this the spray head that used its proprietary version of a 1/2-inch wafer nozzle? Just nozzles that I've ever seen that came with a seal. Was this the spray head that used its proprietary version of a 1/2-inch wafer nozzle? Just nozzles that I've ever seen that came with a seal. Was this the spray head that used its proprietary version of a 1/2-inch wafer nozzle? Just nozzles that I've ever seen that came with a seal. Was this the spray head that used its proprietary version of a 1/2-inch wafer nozzle? Just nozzles that I've ever seen that came with a seal. Was this the spray head that used its proprietary version of a 1/2-inch wafer nozzle? Just nozzles that I've ever seen that came with a seal. Was this the spray head that used its proprietary version of a 1/2-inch wafer nozzle? Just nozzl that came with a seal. This is the one-vou could place the nozzle on a riser with a 1/2 female clutch as a riser adapter. Page 12 Galvanized risers with the big brass thread 1/2 nozzles always looked terrible to me. I don't know if W*M still makes the brass nozzles of the 100 series with the copper welding adapter (#95 ?) and a copper riser. Much cleaner, I used them in centers with the big 105 f.c. nozzle and whatever I needed for the rear throws. The only problem I ever had was where a customer had rat problems and fired his shotgun at them, nailing the risers! Galvanized riser with the big brass thread 1/2 nozzles always looked terrible for me. I don't know if W*M still makes the brass nozzles of the 100 series with the copper riser. Much cleaner, I used them in centers with the big 105 f.c. nozzle and whatever I needed for the rear throws. The only problem I ever had was where a customer had rat problems and fired his shotgun at them, nailing the risers! Yes, they still make the 100 series with the #92 Cu adapter. Try this combination at some point. IMHO, there is NOTHING as pretty and efficient in a full circle nozzle as the 105. Yes, they should be in their own zone. Just think about it makes my heart pitter/patter! When I look at their page, I don't see the 105......'. Lipstick' fc nozzle. Last edited: Jul 5, 2018 I always have my own type L 1/2 copper riser in the old days with a 1/2 copper x male adapter. In this way. I was able to retrofit with pop-ups and any other driver adapter, as it required future plant growth. Recently, I repaired some of these risers that I installed after the scrapers cut them while trimming and trimming. Ah, I iaw for the old days (and nothing hits on fittings!). Ah, I iaw for the old days (and nothing hits on fittings!). Prolly for the first time I did not agree with you. If 12 copper risers with W*M 105 heads are properly installed, there is NEVER a reason to change anything! EXCEPT, some dumbo LA/landscaper/HO changes the plant design without consultation, yup, then you will be screwed. I've seen PGPs on high risers because of the madness mentioned above! Last edited: Jul 5, 2018 Prolly the first time I disagreed with you. If 12 copper risers with W*M 105 heads are properly installed, there is NEVER a reason to change anything! Not even shrub growth? I love these World Cup jets - unfortunately I had no use for them and scratched my remaining stock 20 years ago. On 10' centers, nope, none, nada. The customer is a good friend and biting about the cost 15 years ago, no complaints to date. I have not used any filters in any spray heads, better to check the crew operation in the spring start-up, before leaf growth, clean the nozzles with a piece of stripped 18G wire, and water on. On 10' centers, nope, none, nada. The customer is a good friend and biting about the cost 15 years ago, no complaints to date. I have not used any filters in any spray heads, better to check the crew operation in the spring start-up, before leaf growth, clean the nozzles with a piece of stripped 18G wire, and water on. That's what I call California style. I installed a large shopping center in CA (in my youth, of course) in the 70s and everywhere the Riser 10' were apart. I went with the party and made the same lots of ground cover and old gold juniper made 90% of the landscaping. I don't bet much as changed, except the controller since. No filters were a problem for these peanut nozzles and for nozzle adapters soldered to copper risers. Imperial had something cool for the copper riser inventory - a Sweat x Female nozzle thread adapter that allowed you to design your own custom riser extenders. Page 13 I had an airline pilot who not only loved my copper riser, he didn't want her Were. I took them to my shop and buffed them up brilliantly on my bank grinder. For a final touch, I thought I would also polish the nozzles. Coated with Varathan, purrty! Went to fire them and realized that I had done too good work on the jets: the 180s were 200s, the 90s were 100s and again. Never another brass nozzle! After W*M has changed hands, they must have outsourced their brass nozzles (like these terrible soles) because milling became funky. Here is a brand new nozzle, you can see on the left how the pattern is distorted. I had very few options, but picky, I was not satisfied and let my REP know, without success, natch! I also had brass nozzle fun with my friend artwork! Last edited: 06.07.2018, which reminds me of this system that I used to take care of... Homeowners actually installed this on one of the zones, it worked pretty well for where it was. Would have been a good 4th if July post I think. Nothing uglier than a PGP getting up on a riser. I see then in many places. If you have a PGP rotor on a riser, it is much better to be a pop-up than a shrub head, as the nozzle plastic is sometimes prone to UV damage. If you have a PGP rotor on a riser, it is much better to be a pop-up than a shrub head, as the nozzle plastic is sometimes prone to UV damage. I have used Stream Rotor 4 heads against fence posts with wooden shutdowns between the riser and the post, so that the head was hidden in the back of the post until activated. (with copper riser, Natch) If you have a PGP rotor on a riser, it is much better to be a pop-up than a shrub head, as the nozzle plastic is sometimes prone to UV damage. One more reason to skip the PGP train. One more reason to skip the PGP train. I wouldn't bet the ranch that every rotor nozzle on these trees is really UV resistant. The dollar savings that must be achieved through the use of shrub head rotors do not really justify the additional stock. I wouldn't bet the ranch that every rotor nozzle on these trees is really UV resistant. The dollar savings that must be achieved through the use of shrub head rotors do not really justify the additional stock. I use the 5000 RB rotor and they are actually more than fixed units. The need arises on low-pressure city supply or shallow wells where you have the GPM, but too many feathers to pop. In most cases, the valves in the heads look fine - in some shallow well situations, the check valve head can't pop at all in spring, when heavy lawn cover and a late switch-on combine to this grass hood effect. If you have a PGP rotor on a riser, it is much better to be a pop-up than a shrub head, as the nozzle plastic is sometimes prone to UV damage. You have to be psychic - don't have these posts about a no-pop PGP on a riser with a when I was in an upgrade in Woodcliff Lake NJ today. Pulled out 25 PGPs, reworked the layout and zone order, and added Climate Logic and an Irritrol RD 600 to the system. The owner was thrilled because this hacker's PGP system was terrible from the start. The red nozzle had faded to a crispy Mauve colour. We gave him a decent burial in the next garbage can. Page 14 We gave him a decent decent in the next garbage can. This picture gets my 'Hackmaster of the Week' award. The DW not only installed THE WRONG ROTOR for the application, it was such a slime ball that he plugged a sch 40 (white) adapter into the PGP, giving a complete visual image that my Hackmaster of the Week' award. awards. The DW not only installed THE WRONG ROTOR for the application, it was such a slime ball that it incorporated a sch 40 (white) adapter into the PGP, which makes a complete visual Wheres my clipboard? Coincidentally, but, trying to catch you in a good mood Speaking of that W*M clipboard, has anyone ever ever had a system of brass pop-up sprays where there is only the minimum psi on the nozzles? I have no doubt that a good brass nozzle could have a decent DU at less pressure than all plastic, but 15 psi, really? Not sure, never did a W*M brass run so low. I love the line on the clipboard: OPERATING PRESSURES MINIMUM. Speaking of W*M clipboard, does anyone actually ever have a system of brass pop-up sprays where there is only the minimum psi on the nozzles? I have no doubt that a good brass nozzle could have a decent DU at less pressure than all plastic, but 15 psi, really? Fifteen psi is much low. Depending on the number of brass heads in the zone, I could see a lot of flooding before anything sits - and forget that there is a grain of sand in all shafts. As far as distribution is concerned, I can only speculate that it would be poor under the specifications and, at best. bad. That's if you follow the W*M distance, as per nozzle count, for triangular spacing and feed it with this low pressure, they have just enough overlap to get through, provided spray radius as per chart. The only water source that, in my opinion, corresponds to this mode of operation is a simple vanilla centrifugal pump at the maximum point of action of the operating curve, which is less than 30 psi, 20 psi at the top is more realistic. I wonder if W*M has ever mapped their old brass nozzles to real world operating pressure. That's if you follow the W*M distance, as per nozzle count, for triangular spacing and feed it with this low pressure, they have just enough overlap to get through, provided spray radius as per chart. The only water source that, in my opinion, corresponds to this mode of operation is a simple vanilla centrifugal pump at the maximum point of action of the operating curve, which is less than 30 psi. 20 psi at the top is more realistic. I wonder if W*M has ever mapped their old brass nozzles to real world operating pressure. I have waited for many large World Cup spraying systems on commercial buildings with psi 80-120 for years. Massive spray volume and distance. must have applied water at a rate of 2.5 -3.0 inches per hour. Run a zone for 15 minutes on this old Batrow timer and everything was saturated. I wonder if W*M has ever mapped their old brass nozzles to real world operating pressure. I think they put it on 35psi with a covered for lower pressures. All of me ran around 40 without fog. My clipboard does not even have a square distance; they liked triangular spacing in those days, I didn't and broke the rules. I have waited for many large World Cup spraying systems on commercial buildings with psi 80-120 for years. Massive spray volume and distance. You must have applied water at a rate of 2.5 -3.0 inches per hour. Run a zone for 15 minutes on this old Batrow timer and everything was saturated. What do these disjointed facts have a relevance to? My defense: 3 beers... laynas is not yet at home. and on the loose. Love you green biz... just try my *** hat. But not seriously, hats off to you page 15 You don't have to make these posts mentally-not earlier about a no-pop PGP on a riser with a UV faded jet run than I ran in one at an upgrade in Woodcliff Lake NJ today. Pulled out 25 PGPs, reworked the layout and zone order, and added Climate Logic and an Irritrol RD 600 to the system. The owner was thrilled because this hacker's PGP system was terrible from the start. The red nozzle had faded to a crispy Mauve colour. View Attachment 364462 We gave it a decent burial in the next garbage can. That's f***ing disgusting. I see hack jobs like that and throw a little bit in my mouth. But job security. What if the Hokey pokey is really what it's all about?! To be fair, no one has ever told the installers that nozzles of a rotor tree could disintegrate through sunlight. These PGP shrub heads were everywhere on some slope plantations in SoCal developments, pipes all exposed, waiting for the plants to do the cover-up. To be fair, no one has ever told the installers that nozzles of a rotor tree could disintegrate through sunlight. These PGP shrub heads were everywhere on some slope plantations in SoCal developments, pipes all exposed, waiting for the plants to do the cover-up. Why do you know sociic rotors, shoes? What do these disjointed facts have a relevance to? My defense: 3 beers... lavnas is not vet at home, and on the loose. Love you green biz... just try my *** hat. But not seriously, hat off to you among others in said.... this one was stupid and I'm sorry. Shole hat doesn't fit... Maybe ron and Rod could give me one or three I could be satisfied for a decent clipboard as well. Love yall good night. Not pulled out, but a crew member took pictures of it yesterday. Threw him for a loop, but he found out. You guys remember the irritation dial of death? Does a large birth control look compact? It would swirl and and audibly ticking? I had one of those to replace about 5 years ago that and brass fan nuzzles mounted directly on sched 80 I don't even know how old they are! Before my time page 16 I also drew one a few weeks ago. Nick LAWN DYNAMICS, Inc. 918-808-1147 Old Truck (Fords) Large Trailer Large Mower Trimmer Stop, hack, blow it off, get paid, leave! Toro Vision 1 Pretty reliable controller. The slide start time switches go crazy after a while, but homeowners who are used to them like them. Have these babies all around here. It's hard to get the people they have to switch to another controller until the thing actually stops working. They're also a workhorse, they just keep going. Toro Vision I. There is something to be said for the simplicity and reliability of some of the older controllers out there. I pull about 20 of

them from the wall a year recently, gotta love the common on these controllers. Valve rebuilds give me a good buzz most of the time (because I just forgot). yep, famous for sending a signal in the off position [SIGPIC][/SIGPIC] Hasn't pulled it out, but has some work on a system with this guy this morning. 30 years old and still leavin' 'em wet! ;D What if the Hokey pokey is really what it's all about?! These old dogs never die! I had one that I kept waiting for until it failed: I waited fifteen years, was still a truckin'. Didn't pull it out, but did some work on a system with this guy this morning. 30 years old and still leavin' 'em wet! ;D] These guys are pretty tough. I go into the old time street of dreams multimill props that still have these controllers. Crazy We have all kinds of these Richdels where I am. In fact, I have a handful of customers who love them and don't part with them. The other side of the state here had a bunch of Toro. My neighbor across the street had one until he finally died this spring and I gave it off with a Hydrawise. So where is your location to see all these treats? Tork controllers were tanks. I'm in Michigan. The Detroit Earth District suburbs. I used to have a different username here. But I couldn't figure it out or which email it was tied to. The best are peppered (or about 10 years ago) on the west side of the state. I hated these systems with passion. I had got an irrigation guy (don't know his exact creds) into a dispute with me about hydraulic systems vs electric. His point was electricity and water do not mix, I had to resign to this hint. However, I put it back on the fact that finding and finding and finding and eaky hydraulic line, or hole leak somewhere just enough to prevent a valve from closing and a lot of water. We have all kinds of rich where I am. In fact, I have a handful of customers who love them and don't part with them. The other side of the state here had a bunch of Toro. My neighbour about the had one until it finally died this spring and I repalced it with a Hydrawise. I keep a used stock of R476s that I sell to customers (as used) who don't want to learn another timer. Your choice. I try to sell the air conditioning on, but the old timers don't want to hear about it. The best are the old Toro hydraulic systems. These are peppered (or about 10 years ago) on the west side of the state. I hated these systems with passion. I share your pain. Whenever I told a customer that he had rubbish here, they were offended. I didn't care - they wouldn't spend s anyway. I had got an irrigation guy (don't know his exact creds) into a dispute with me about hydraulic systems vs electric. His point was electricity and water do not mix, I had to resign to this hint. However, I put him back on the fact that finding shorts on electrical wires is easier compared to finding a leaky hydraulic line, dotted or hole leaking somewhere just enough to prevent a valve from closing and a lot of water. You are 100% correct in your view. Since all control valves are hydraulically activated. They spoke to a fool. I keep a used stock of R476s that I sell to customers (as used) who don't want to learn another timer. Your choice. I try to sell the air conditioning on, but the old timers don't want to hear about it. We had a guy about 3 years ago that consisted of the Richdel controller for its BRAND NEW system that we installed. We found a nice old used one and he was happy as it could be with him. Brand new system 25 year old controller. I hate these controllers and try to remove them whenever I can. I hate to go back and forth and not be able to use my RB or Roam remote control. I share your pain. Whenever I told a customer that he had rubbish here, they were offended. I didn't care - they wouldn't spend s anyway. I feel your pain. For a while we have made a lot of money to convert the hydraulic system. Not even with the conversion kit. The hardest thing, however, was to find the valves. They were usually buried directly or in small black cans. Jim is the one who showed me how to locate them with piano wire! We had a quy about 3 years ago that consisted of the Richdel controller for its BRAND NEW system that we installed. We found a nice old used one and he was happy as it could be with him. System 25 year old controller. I hate these controllers and try to remove them whenever I can. I hate to go back and forth and not be able to use my RB or Roam remote control. I feel your pain. For a while we have made a lot of money to convert the hydraulic system into a normal electrical system. Not even with the conversion kit. The hardest thing, however, was to find the valves. They were usually buried directly or in small black cans. Jim is the one who I how to locate them with piano wire? Say it. Page 18 18 years ago, when we were trying to find Toro hydraulic valves in the condominium complex, we had pot hole for days. I posted here and asked for help and Jim said to use piano wire. Something to do with it because it was strong enough and would not be caught on the pipes. So we pushed it down the tube until it stopped and followed it with the tracer. It worked if I remembercorrectly. Years ago, when we tried to find Toro hydraulic valves in the condominium complex, we had pot hole for days. I posted here and asked for help and Jim said to use piano wire. Something to do with it because it was strong enough and would not be caught on the pipes. So we pushed it down the tube until it stopped and followed it with the tracer. It worked if I remembercorrectly. Very cool. I do the same with electrician snakes and larger pipes. What a great solution for hydraulic lines. Some pictures from my Instagram of things I've taken out. They may be old and shitty for you, but they lasted more than 30 years. These were manufactured when the US had its own factories highlighting durable electronic products. Not only did they have a high current power to operate systems that were much older than they were, so they could replace electromechanical controls. Something a Pro-C and most other controllers can't do today. Fortunately for us, the valves today are low amp. They may be old and shitty for you, but they lasted more than 30 years. These were manufactured when the US had its own factories highlighting durable electronic products. Not only did they have a high current power to operate systems that were much older than they were, so they could replace electromechanical controls. Something a Pro-C and most other controllers can't do today. Fortunately for us, the valves today are low amp. That Richdel I posted a picture of us still in the customer house. While I'm not a fan of a Pro-C and I understand what you're saying, the design of some of the older controllers (as richdel said) IMO was shitty. Good, because the HO couldn't or didn't want to mess with him, but still shit. I still have many rich people in customer houses... That Richdel I posted a picture of us still in the customer house. While I'm not a fan of a Pro-C and I understand what you're saying, the design of some of the older controllers (as richdel said) IMO was shitty. Good, because the HO is not could or would come, but still shit. I still have many rich people in customer houses... Like I-I never liked the fixed times or the slide switches on the 476s and 508s/512s. That is, the older 416s were very durable and easy to program and ran the older systems. Stopping the HO from getting lost with controllers isn't easy in the e-vear of smartphone apps. Keep the HO away from the mess Controller is not easy in the e-at of the era of smartphone apps. Almost guaranteed service calls, though. I don't know why the grass looks like this...... What if the Hokey pokey is really what it's all about?! Almost guaranteed service calls, though. I don't know why the grass looks like this...... More than half of my customers have a Hydrawise. Those who have high-end service contracts, I include a fully mananged controller/system (which leads to good/more service calls). Otherwise, they charge customers a fee per month to manage their controller. So if I get a text or call on a Friday, we say that I can request a change in the schedule, I can do so from my deckchair. Easy money... Page 19 has now made this out of a revision. Shock me well..... What if the Hokey pokey is really what it's all about?! I don't know why. I have several Vision 2 in service and a few Vision 1 customers haven't trusted it and didn't want to learn how to use it. I'm not sure it worked properly in its defense. What if the Hokey pokey is really what it's all about?! This double feature was pulled out the day before yesterday... Man, toro visions. We have tons here, it was a very popular controller for its time. The start time slider is usually what it takes out. Good controller and everything, but I would much rather have a pro-c with a remote port on it. Nor will you be shocked by an ever-hot common. Imperial Underground Sprinkler Company. Started in Lenexa, Kansas, which is about 20 minutes away from me. I think I read that Buckner bought it and moved it all to Fresno. It sucks to see how a big American business (and products) did as they did. As someone else has said, things are simply not built as they used to be. I wish I was old enough to have used their products and remember them. Since they are 20 minutes from their headquarters, one might think that there are many imperial inspectors here. I've never seen one, we take care of 5-600 systems. There is a love to be heard as 'Imperial' is mentioned; When I started in pNW, they were the high-end players, with Weather-Matic a close second. The watches were electrinous and rock-resistant, as were the valves. They had a number of brass nozzles that were just like hell. I was overjoyed when they came out with a watch that had DUAL PROGRAMS, Wow! Everything began to change and Imperial didn't keep up. They remained popular in lightning-prone areas, but we all just switched to Hardie, which were great watches, but it was sad to see Imperial go. Man, toro We have tons here, it was a very popular controller for its time. The start time slider is usually what it takes out. Good controller and everything, but I would much rather have a pro-c with a remote port on it. Nor will you be shocked by an ever-hot common. I was zapped by the controller more than once. I have a on customers to sell a better controller- It's not a vision-it's a NIGHTMARE! Page 20 Imperial Underground Sprinkler Company. Started in Lenexa, Kansas, which is about 20 minutes away from me. I think I read that Buckner bought it and moved it all to Fresno. It sucks to see how a big American business (and products) did as they did. As someone else has said, things are simply not built as they used to be. I wish I was old enough to have used their products and remember them. Since they are 20 minutes from their headquarters, one might think that there are many imperial inspectors here. I've never seen one, we take care of 5-600 systems. I installed many imperial custom-made fog spray systems in my time. They were so widespread around me that people asked them by name. Very popular from the 50s to early 80s. Simply the best machined brass nozzles - a great sight was a series of full circle performance was unsurpassed. As with all brass nozzles, a limited sample selection of fulls, 1/2s, 1/4s, 3/4s and 1/3s, but they really did the job and took a hit to boot. I still have many controllers (some over 45 years old) still working in houses, companies and a few HOAs. A HOA won't update because they're worried that their 80-year-old maintenance man won't understand these new fashionable digital things. Long-standing lurker, first time poster. I would share one of my latest finds. This is an old lumenitic electromechanical regulator around 1951. It controls 4 magnetic pilot control valves, which in turn operate the 2 hydraulic valves in the yard. This special watch is branded by AC Oughton from Chicago. I actually own one of these units, I'll take some better pictures of myself later. Cool. Please let us know your general location so that we can better place the use of this historical stuff. I've seen a few lumenite controllers, but from a newer design similar in appearance to Batrow controller. Last edited: Oct 27, 2018 Thank you. I am in the north IN, should be visible now on my profile. I've only seen a small handful of these old lumenite controllers. Most of these early systems from the 1950s were manually operated hydraulic systems, with 1/4 door valves mounted on the wall, usually near the front door. In the 1960s, the Weathermatic EM-7 seemed to be the watch of choice, followed by the faithful Imperial in the 1970s, which a large surface installer continued to use well into the mid-1990s. I still see about 5 a week. These ancient lumenites were everywhere in the northeast Company in Hempstead LI. Boots knows who I am talking about. Homemade copper fittings and copper curvatures, Safe-t-Lawn ball rotors and Weathermatic fog spraysome with their company name stamped on them. And the worst quality poly found made it easy to melt their homemade copper inline T-ungen with 1/2c x male adapter for head melt Happy that I don't see any, because no one survived their bad components. So does the magnet have its own wire that leaks and is then connected to the junction box? So does the magnet have its own wire that leaks and is then connected to the junction box? the wires were used for the wiring nodes - by today's standards not exactly kosher, although we could still see that external controllers with only one transformer and three wires are sold for the production of the power inlet connection (and almost everyone uses a threaded line box to make this power connection) boots are correct, these junction boxes are only for the splices. These magnets are wired in the same way as any modern magnet Here is an example of one of the hydraulic valves that were buried directly in the yard. This is from another system, from a hydraulic to electrical conversion that I did a few years ago. They are guite large, about 6 in size. I only saw them with a 2 entry. Here is an example of one of the hydraulic valves that were buried directly in the vard. This is from another system, from a hydraulic to electrical conversion that I did a few years ago. They are guite large, about 6 in size. I only saw them with a 2 entry. Appendix 370173 Neato. What is the patent number for this bad boy? Page 21 the really old stuff is like Irrigation Meets Steampunk That's extremely cool stuff there and very informational I just read the whole patent. We didn't pull it out, a member of staff sent me that. I've never seen that before. It's a double check-return assembly and a Toro Mech Timer that was an interesting DCVA - low head loss compared to conventional units - blowing out a system through this DCVA test tap is a task, which I have never taken over, and probably never will Small resi be fine - as you can see, it is #4 so no damage Small resi is fine - as you can see, it is #4 so no more damage of a trick answer because these units could develop O-ring leaks, and parts can no longer be available by irrigation supply channels As soon as Toro discontinued these return flow preventers, so that they have almost all been replaced by now, especially in places that today have codes that require the PVB or RPZ. Everyone is considering a simple hand pump? 7 psi is all that is needed to hibernate a assembly. If these dry blown, tests could be warped, ball valves could be scrapped (how many testers know how to recognize the difference between a by and a test error?) We always tested at the start. I took testing seriously, AND the liability I could take if I didn't do a full two-minute test. End of the return rant. Rather a trick response, since these units units After Toro discontinued these return preventers, they were replaced almost all, especially in places that today have codes that require PVB or RPZ. Well! Time to tear out the SoB and put it in the museum. Page 22 Everyone considered a simple hand pump ? 7 psi is all that is needed to hibernate a assembly. If this assembly is blown dry, tests could be warped, ball valves could be scrapped (how many testers know how to recognize the difference between a by and a test error?) We always tested at the start. I took testing seriously, AND the liability I could take if I didn't do a full two-minute test. End of the return rant. Mike, you've been preaching that for years. Yes, we have hand pumps to pump out the return flow if needed. I will say that there is no actual timeframe for testing. It's up to the tester, exact numbers Mike you've preached that for years. Yes, we have hand pumps to pump out the return flow if needed. I will say that there is no actual timeframe for testing. It's up to the tester, accurate numbers once a year for hazardous plants such as chemically intensive production. Once a year, the norm is in most states. About 4 times a year for hazardous plants such as chemically intensive production. I am sorry that I did not articulate this enough. I thought it took the actual time to test a return unit. Throughout the procedure, there is no required time to test the unit - just follow the steps (how many testers know how to tell the difference between a by and a test error?) Our test procedures with NEWWA (New England Water Works Assoc.) for an RPZ require confirmation of the downstream shut-off valve after checking the tightness of the first and second tests. The procedures confirm the status of the outflow BV and the check valves. I like to activate a zone after switching off the downstream BV, so that the pipe after the BV has low to no pressure so a BV that is not dense will leak easily. I do the same for a PVB after closing the downstream BV. The language used for this procedure if the downstream shutdown on an RPZ is considered leaking: Stop the test until a non-flow condition can be detected, or use alternative methods. By means of an alternative procedure, you can use a bypass hose connection between the #1 and #4 test valves. For a PVB, the procedure is simple if the downstream BV is leaking. If this is the case, the test can be used as a and the device has failed. However, an out is allowed if a no-flow situation can be confirmed, such as B, is downstream of an irrigation system in a non-flow situation. The language used for this method if the downstream shutdown of a PVB is leaking A further inspection of the device can only be completed when the downstream shut-off valve has been repaired OR no flow can be detected. Long history short a trained tester will come to the right conclusions when testing the condition of BVs and the controls. A closed system like an irrigation system downstream is a plus. In our case with NEWWA, we have to re-certify for a very three years by actually testing and recording devices that are open after BV, so that the flow would fail immediately, I'm going to NE this winter to get my certify again. I am sorry that I did not articulate this enough. I thought it took the actual time to test a return unit. Throughout the procedure, there is no time needed to test the unit - just the steps I know - and it's guick if you become competent - only minutes. At some point I line 5-10 on a block and just go down the line. I know - and it is guick if you become competent - only minutes. At some point I line 5-10 on a block and just go down the line. I admit that backflow testing is the least preferred aspect of work. But it's nice when it's organized and in a row. In some guarters we have what we call the Backflow Festival. where we have 30 Tests in one day. I admit that backflow testing is the least preferred aspect of work. But it's nice when it's organized and in a row. In some guarters we have what we call the Backflow Festival, where we have 30 Tests in one day. We do FIRST BF tests in August after all power-on and most of the projects have been completed. I consider it to be my favorite time of the year and easiest work to do. Spring is tight and I can't stop doing BF tests. If it's the only thing I plan for a day, my record stands at 52, although when it's hot, I like it, average 30 and go home early. We do FIRST BF tests in August after all power-on and most of the projects have been completed. I consider it to be my favorite time of the year and easiest work to do. Spring is tight and I can't stop doing BF tests. If it's the only thing I plan for a day, my record stands at 52, although when it's hot, I like it, average 30 and go home early. Impressive. I applaud you! I get annoved when I have more than 5 if in one day. Little resi is fine - as you can see it is #4 so no harm I also on this with my usual worry How does this be terrible and I notice that there could be unwanted mechanical strain on this testcock/plastic body compound. I think a small small diameter whip line could be useful for test blowouts. Page 23 I have always used quick pairs after assembly to hibernate. Of course, I had to learn to position them. I also look at this with my usual concern How does this go terribly wrong? and determine that there may be an undesirable mechanical load on this testcock/plastic-body compound. I am a small diameter whip line could come useful for Testcock blowouts. I looked into the plastic RPZs and nixed them. The areas I work in don't have the kinds of metal thefts that would make it a choice. That and I do not remove any devices for the winter further makes the plastic a no-go. Then explain it to me. Explain to me how #4 TC is the end of the world. I'm now on year 12 Mike/Boots. I test almost 1k BFT per year and combined by the company (I just executed a request) we wintered this winter just over 5,500 customers. Please enlighten me about worse case scenario, what goes horribly wrong? Boots if you are so worried about a test **** will be damaged (I still have that to see because of the hibernation) Well. Replace it! Stop taking apart things that are not necessary. The reality is for me and the company I work for. I'm sorry.. We don't have 234 clients with whom I use Wine N Dine and Filet Mignon after the job. We have decent size numbers with multiple techs going at once... in all likelihood there will be sprinkler systems without Quick Coupler. So you have to make up with what you got that's stupid to force someone to do something (install a QC) If there's still a safe way to hibernate. On systems that are a QC- I give them a price estimate to install and suggest it. Now I love the QC and much prefer that. It is simply not necessary. Stop taking things apart...... Grab a test tap from the 1/8-inch jack threads on a PVB or RPZ, then let us know how long it takes to get everything back in order. I guarantee that the cost of a replacement test tap will be the widest thing out of your mind. A short whip hose will find its way into my wintry toolbox. But these Toro DCVAs are so old that the photo reminds me that the wintry air comes from just as vintage a compressor as the Smith 125, which emits boiling hot air that is easily able to melt plastic bodies and innards. I have replaced hundreds of Toro PVBs. They are not approved by the USC Foundation for Cross-Connection Control and Hydraulic Research. This QC looks like it could be on a swing joint and someone is just mispositioning. It doesn't look like a double swing joint, but you may be right. When a QC went into a large system, I used two brass ells, a 6 brass nipple, a brass ell at the bottom and a brass T-shirt to keep any heat during. long compressor runs. Never melted nothin'. Page 24 I would like that to be the thing. When I started in the early 1980s, the company I worked for had a Smith 100cfm gas with a Ford v/8. A large system that takes more than a few minutes to blow out would generate enough heat to balloon PVC at the blowout tea. I have replaced hundreds of Toro PVBs. They are not approved by the USC Foundation for Cross-Connection Control and Hydraulic Research. I pulled a boatload from them but in 25 years, no one has seen what is good. While I was learning the trade, I melted almost everything before I got the hang of it, I fixed everything on my. The next call I had was firing a zone of stream rotor 12 heads. I put the air on it, and one of them turned up and missed my chin and nose by an inch at high speed. I bet it shot up to 15 feet! While I was learning the trade, I melted almost everything before I got the hang of it, I fixed everything on my. The next call I had was firing a zone of stream rotor 12 heads. I put the air on it, and one of them turned up and missed my chin and nose by an inch at high speed. I bet it shot up to 15 feet! I started Toro 600s during BOs over some houses. You can't believe what I got! Grab a test tap from the 1/8-inch jack threads on a PVB or RPZ, then let us know how long it takes to get everything back in order. This is caused by yanking on the hose before it is disconnected. If you are concerned about the weight of the connection, then 2 - 1/4 street Els will relieve the stress. An extractor on 1/8 threads above the ground ?? Come on, this is super easy An extractor on 1/8 threads above the ground ?? Come on, that's super easy No. It is not easy depending on the production of Testcock. The inner diameters of the remains vary from brand to brand and may or may not match an easy-out. Grab a Wilkins 1/8 inch test tap flush with the body of an old 720A PVB, and your extractor will probably chew only the thin shell of brass embedded in the female threads. Well, that's just the one brand, but I don't think Febco Testcocks are too robust. Only the Watts seem to be as strong as ever. One reason I'm thinking about adding a whip hose to the rig is for the 1/4-inch male flare ends on some testcocks. Something could be made with larger diameter hoses than can be used on reflux test benches. No. It is not easy depending on the production of Testcock. The inner diameters of the remains vary from brand to brand and may or may not match an easy-out. Grab a Wilkins 1/8 inch test tap flush with the body of an old 720A PVB, and your extractor will probably chew only the thin shell of brass embedded in the female threads. Well, that's just the one brand, but I don't think Febco Testcocks are too robust. Only the Watts seem to be as strong as ever. One reason why I'm thinking about to add to the rig is for the 1/4-inch male-flare ends on some testcocks. Something could be made with larger diameter hoses than can be used on reflux test benches. No. It is not easy depending on the production of Testcock. The inner diameters of the remains vary from brand to brand and may or may not match an easy-out. Well.. It's easy for me. I don't disagree that they are different. Sounds like you don't do it the right size extractors. I always have a broken one, whether it's a 30-year-old unit or completely new. Well.. It's easy for me. I don't disagree that they are different. Sounds like you don't have the right size extractors. I always have a broken one, whether it's a 30-year-old unit or completely new. So, what do you do and model extractor to occupy? For some devices, a traditional extractor is in the cavity because it is not fully milled to the 1/8-inch FPT dimensions. Dimensions.

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