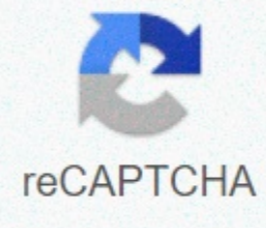




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Rain bird sprinkler system esp-6tm manual

Bert spent 25 years working as a home improvement contractor and residential construction in the central irrigation Florida. An system should work perfectly for many stations without problems. However, every irrigation system eventually works poorly. Fortunately, changing a single part usually returns the system to the full working condition. With a small incentive advice, a typical homeowner usually fixes their own irrigation system without calling a professional contractor. Properly functioning siper systems keep the grass green. By Ildar SagdejevHow Sprinkler Systems WorkThe irrigation system consists of some basic parts: A water source Pipes Timer Valves Sprinklers Many homes use city water as a water source, while others enjoy a well or lake. A house using a lake or as well as its water source needs a high voltage pump. A timer connects directly to the pump motor. When the timer is activated, the pump motor draws water from the source and the force to the irrigation pipes. An irrigation system connected to the city's water uses a low voltage timer. The transformer of a low voltage timer hits the 120 volt circuit of the house. The transformer converts high voltage into the low voltage power source that the system requires. When the timer activates a zone, it sends the low voltage power source to the appropriate valve solenoid. Once activated, the solenoid opens the valve, letting the water pass. Once it hits the asperor's heads, it is distributed through landscaping. Locating and repairing broken-bepersing system pipesEach, each sperse system undergoes a broken underground pipe. Isolated areas of excessively moist soil, visible geysers and a water meter that works with the irrigation system turned off indicate that a sprinkler pipe has broken or broken. In the worst cases, this problem can waste thousands of gallons of water per month. Finding the break often becomes frustrating. Common culprits include tree roots and careless shovel work. Check for signs of leakage If the breakage occurs before the valve, the broken pipe needs immediate attention. A break in this place leaks constantly and left unattended the damaged pipe will break. If a small area of the lawn becomes exceptionally green or the soil appears spongy, check for a spperorder pipe with a small leak. Once the tube breaks the constant pressure of the water bubbles to the surface, clearly identifying the location of the broken pipe. How to find leaks related to valveLeaks after a valve will only appear when the timer activates the region with the damaged pipe, resulting in an area difficult to find the problem area. find this type of leak, close or cover each sperse head and connect the respective area until the ground gets wet. Carefully test the wet area with a shovel to find the pipe. To close an adjustable spray spray fan head, pull the spray head rod. Twist the top of the nozzle counterclockwise with a one while holding the bottom of the nozzle still with the other hand. To close a rotor head or gear, place the appropriate tool in the woods next to the arrow. Turn the adjustment screw counterclockwise. If the asperor head does not turn off, remove the soil around the asperor head. Unscrew the wiper head of the male adapter. Place the correct size threaded cap, 1/2 or 3/4 inches NPT, on the exposed male adapter and tighten the cap. Repairing a broken or cracked spray pipeThe materials needed to repair a broken or cracked spray pipe include a wet or dry PVC cement can, a small section of the correct size PVC pipe and some fittings. Turn off the water source from the irrigation system. Remove at least 6 inches of soil under the broken pipe. Cut the damaged section of the pipe and allow the waste water to drain into the hole under the range. Clean debris from the ends of the pipe. Replace the missing section of the tube using the appropriate fittings and tube. To avoid digging large pipe lengths, complete the repair with an expandable coupling or flexible pipe. By juantiagues de Pontevedra, España (Un aspersor) [CC BY-SA 2.0 (), via Wikimedia CommonsRepairing or Replacement of Damaged Asperage HeadsAnd Incorrectly adjusted spraying heads do not distribute water properly, leaving large areas of a dry lawn. Returning the asperor head to its proper adjustment setting often fixes the problem. Due to the relatively low cost of a new sperse head and variations between manufacturers, owners often find a complete replacement of a broken beehead the easiest and most economical solution. Adjust the water throwTostebra the fan whistle has a screw adjustment distance, the screw located at the top of the nozzle. Many nozzles throw water between 10 and 15 feet, assuming 25 PSI of water pressure in the nozzle. Turning the screw away clockwise increases the release of water. Twisting the top of an adjustable nozzle changes the arc. Rotor wlyeheads have distance and arc adjustments. The adjustment procedure depends on the manufacturer. Some manufacturers provide an adjustment wrench, while others use a small ranhulada screwdriver. Damage Caused by Lawn Mowers and Other Law-Adorevehicles causes extreme damage to a seperor's head. Cement landscaping donuts help prevent the blade of the lawn mower from hitting the asperser's head. If the lawn mower broke the body of the asperor head, replace the entire asperor head with an exact replacement. If the lawn mower blade damaged the top of the mower head, all over the head of the whey or try to identify the mark of the asperor head and replace only the broken part of a new head. Replacing a broken cap and rod, sometimes called a shaft, eliminates the need to dig up the body. Automobiles drive over the squeeathed heads positioned next to a sidewalk, usually breaking the head or tube of the perperecbelow. Typically, the best solution involves digging up the wheet pipe and replacing the small hard PVC section directly below the seper head with a flexible PVC pipe and then installing an exact replacement beeper head. Problems With debrisWhen the shaft of a spray's head extends, but the water does not come out of the nozzle, the debris cinters the nozzle or its screen. Turn off the system and remove the nozzle and clean all debris from the nozzle screen. To remove the nozzle from the fan's whistle head, pull the rod out of the body with one hand and hold the nozzle with the other. Keep the shaft still and turn the nozzle counterclockwise. Many rotor seperhead manufacturers use a nozzle that is locked in place with a set screw. To access the nozzle and set the screw, unscrew and pull the rotor cover and drift from your body. One or more zones will not connect or remain in the squeeatry system with a zone that will not turn on or off has a timer, zone valve or a short on the low voltage wire. An experienced technician uses certain visual cues to reduce possibilities when diagnosing the system. For example, if the water passes through a zone valve after disconnecting the timer power, the technician knows that the problem occurs in the zone valve. When the technician suspects an electrical failure, he uses a multimeter to read voltage and continuity in each part of the individual system, thus isolating the defective device. Fuse problemsIf the timer does not work, remove the face plate from the timer and look for a blown fuse. Not all systems include a fuse. Replace a blown fuse with a compatible model; the amperage rating must match. Turn on the system and pedal through each zone. If the fuse blows again, start the troubleshooting process on the timer. Inspect the TransformerView the timer transformer for proper input and discharge voltage with a voltmeter. Most squealine timers use a transformer that connects directly to a standard 120 volt container, however, some models are connected directly to the electrical circuit of the house. If the transformer receives the proper voltage, but its output voltage does not correspond to the indicated output voltage, replace the transformer. If the

transformer works correctly, resolve the timer. Check the Timer when multiple zones do not turn on the defective timer. Activate a faulty zone and check the timer output voltage between the respective zone and the common terminals. Rotate the multimeter to its lowest AC voltage setting. Place a numultmeter probe terminal of the defective zone and the other nummetric probe in the common terminal. Compare the multimeter reading with the output voltage indicated by the timer transformer. When activated, the timer should allow the voltage to pass into the valve If the multimeter is zeroed, replace the timer. If the multimeter shows voltage, turn off the timer and resolve the valve solenoid. Test the SolenoidWhen the voltage passes through the coil of a solenoid a magnetic field moves a metallic piston. The piston forces the diaphragm of the valve open. Remove the wires connected to the valve solenoid. Rotate a multimeter to your resistance setting. Place a probe in each lead solenoid. If the solenoid is not continued, replace the solenoid. If the solenoid is continued, check the solenoid for adequate voltage with the multimeter set for the voltage setting. Keep the ends of the low voltage wires separate and activate the zone with the timer. If the multimeter reads voltage, replace the diaphragm of the zone valve. If the multimeter is zeroed, replace the low voltage wire. Diaphragm DiagnosisIf water drains from the asperor heads in a certain area after the timer shuts down the zone, check that the diaphragm of the valve in the region is looking for debris or damage. Turn off the water supply from the irrigation system. Remove the top of the valve. The removal procedure depends on the type of valve and manufacturer. Lift the diaphragm and its valve body spring. Clean the debris from the valve body and inspect the diaphragm and spring for damage. Many home improvement stores sell replacement diaphragms to various valve manufacturers. The thruster of the irrigation pump broke the shaft. Problems with timer and high voltage pump Because of the inherent hazards involved with high voltage, only trained and experienced individuals with high voltage equipment should work or repair the motor and timer. However, a basic understanding of how to troubleshoot this type of system never hurts. An irrigation system that draws water directly from a pond or well usually uses a 240-volt pump motor, although some systems operate in a 120-volt circuit. A dual voltage pump motor uses a switch, located inside its electrical compartment, which allows operation with voltage. Irrigation systems that take water from a lake usually use a jet or transfer pump. Well, the pumps come in many configurations, including shallow pit, deep well and submersible type pumps. Some systems use a pump starting relheal, while other pump motors are connected directly to a high voltage timer. Many submersible pumps need a starting capacitor as well as a racing capacitor. A capacitor holds its voltage even after turning off the circuit breaker, making it a dangerous component until the technician loosens its load with a screwdriver. Dead shorts Some of the possible reasons why a bomb engine does not include a faulty timer, incorrect voltage, faulty capacitor or a dead short-short. A dead short circuit stumbles onto the pump motor circuit breaker immediately. The short dead often occurs in the winding of the motor or along a stretch of a wire with worn insulation. The repair depends on the of the short. A service technician always compared the actual voltage in the motor with the declared operating voltage of the motor. If the irrigation system uses a dual voltage pump motor, the technician will check the configuration of the motor voltage switch. Good signals a careless installer left the switch in the 240 volt position in a 120 volt system include a pump motor that struggles to reach speed and one whose housing gets hot quickly. If the measured voltage and the indicated voltage do not match, the technician will track the electrical supply back to the timer and then to the circuit breaker. If the measured voltage and the indicated voltage match, the technician shall test the capacitor and look for debris lodged between the propellant and the engine housing before changing the engine. This article is accurate and faithful to the best of the author's knowledge. The content is for informational or entertainment purposes only and does not replace with personal or professional advice in commercial, financial, legal or technical matters. Questions & AnswersQuestion: What causes squeeking heads to vomit air and water when they first arrive? Answer: Water enters the pipes when the valve opens. This creates pressure that forces everything downstream, including any air, out of the heads. This will continue until all the air leaves the pipes and the water pressure equalizes. Question: What causes two or more zones to collapse at the same time? Answer: Only one terminal should show power. Troubleshoot the timer while the zones are working. Question: After the asperor finishes its 6 seasons, station 4 comes back. What could cause this problem? Answer: When station 4 comes back on, disconnect one of the valve wires from the solenoid. If the valve turns off, suspect the timer. If the area continues to operate, inspect the valve. Question: Should water drain from the wpersor lines when it is switched off? Answer: No, the pipes should not leak. However, if the tubes run downhill, the ascent portion will drain to the lower part. Question: I replaced the solenoid, diaphragm and spring with the control panel in the off position the asperser is still on. What's the big deal? Answer: Use a voltmeter to check for voltage in the solenoid. If you have voltage there with the timer in the off position, then you have a faulty timer. Question: My irrigation system station is messed up. When I set station 1 to irrigate, station 3 comes in. Then station 3 is watered twice. Any suggestions? Answer: You must replace the timer.© 2013 Bert HolopawCommentsJOSE.CHAVES on June 6, 2020:O SRINKLER WORKS STATIONS 3 AND 6 OTHERS CUT WATER OR SOMETIMES CUT WATER FOR EVERYONE FOR ALL

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