Well pump wiring color code

Free Wiring Diagram. Assortment of 2 wire submersible well pump wiring diagram. A wiring diagram is a simplified standard pictorial representation of an electric circuit. It shows the parts of the circuit as streamlined shapes, and also the power and also signal connections between the devices. A wiring diagram usually offers information about the loved one position and setup of devices as well as terminals on the tools, in order to help in building or servicing the device. A pictorial layout would reveal more detail of the physical look, whereas a wiring diagram utilizes a more symbolic symbols to emphasize affiliations over physical appearance. A wiring diagram is commonly made use of to fix problems and making certain that the connections have actually been made as well as that every little thing exists. Variety of 2 wire submersible well pump wiring diagram. Click on the image to enlarge, and then save it to your computer by right clicking on the image. Architectural electrical wiring layouts reveal the approximate areas as well as affiliations of receptacles, lighting, and irreversible electric services in a structure. Interconnecting cord routes might be revealed approximately, where specific receptacles or components have to get on an usual circuit. Circuitry diagrams utilize standard symbols for electrical wiring gadgets, typically different from those made use of on schematic layouts. The electric signs not only show where something is to be mounted, however also what kind of tool is being set up. A surface ceiling light is revealed by one sign, a recessed ceiling light has a various symbol, and a surface fluorescent light has an additional symbol. Each sort of switch has a various symbol therefore do the various outlets. There are signs that reveal the location of smoke alarm, the buzzer chime, and thermostat. On big tasks signs may be numbered to show, as an example, the panel board and circuit to which the gadget connects, as well as to determine which of several kinds of fixture are to be set up at that location. A collection of wiring diagrams might be needed by the electric inspection authority to approve link of the residence to the general public electrical supply system. Circuitry representations will certainly additionally include panel routines for circuit breaker panelboards, and riser diagrams for special solutions such as fire alarm or shut circuit television or other unique services. Wiring Collection. Interconnecting cord routes might be shown approximately, where specific receptacles or fixtures must be on a typical circuit. Wiring diagrams use basic icons for wiring gadgets, generally various from those made use of on schematic layouts. The electric signs not just show where something is to be mounted, but likewise exactly what kind of tool is being installed. For instance, a surface ceiling light is shown by one icon, a recessed ceiling light has a different sign, and also a surface fluorescent light has one more sign. Each sort of switch has a different symbol and also so do the different electrical outlets. There are symbols that show the place of smoke alarm, the doorbell chime, as well as thermostat. On big projects icons could be numbered to reveal, for instance, the panel board and circuit to which the device links, as well as to identify which of a number of kinds of fixture are to be installed at that place. A set of wiring layouts may be required by the electric examination authority to approve link of the residence to the general public electrical supply system. Circuitry diagrams will certainly additionally include panel schedules for circuit breaker panelboards, and also riser layouts for unique solutions such as emergency alarm or shut circuit tv or other special services. Facebook Tweet Pin. Wiring Collection. Collection of well pump pressure switch wiring diagram. A wiring diagram is a simplified traditional photographic representation of an electric circuit. It reveals the parts of the circuit as simplified forms, and the power as well as signal connections between the tools. A wiring diagram usually gives info concerning the family member setting as well as plan of devices and terminals on the devices, to assist in structure or servicing the gadget. A photographic representation would certainly reveal extra information of the physical appearance, whereas a wiring diagram makes use of a much more symbolic notation to emphasize affiliations over physical appearance. A wiring diagram is often utilized to repair troubles and also to make certain that the links have actually been made which whatever is present. A wiring diagram is an easy graph of the physical connections and also physical design of an electric system or circuit. It reveals just how the electric wires are interconnected and could additionally show where components as well as elements may be connected to the system. Use circuitry diagrams to aid in structure or making the circuit or electronic tool. They are also valuable for making repair services. Do It Yourself fanatics use circuitry layouts yet they are additionally common in residence building and vehicle fixing. For instance, a home contractor will certainly intend to verify the physical place of electric outlets and lights using a wiring diagram to stay clear of expensive mistakes as well as building code offenses. A schematic reveals the plan and also function for an electrical circuit, but is not interested in the physical format of the cables. Circuitry layouts demonstrate how the cords are connected and where they should situated in the actual tool, as well as the physical connections in between all the parts. Unlike a pictorial layout, a wiring diagram utilizes abstract or streamlined forms as well as lines to reveal elements. Photographic diagrams are frequently pictures with tags or

highly-detailed drawings of the physical components. If a line touching an additional line has a black dot, it indicates the lines are linked. The majority of signs utilized on a wiring diagram look like abstract variations of the real things they stand for. A switch will be a break in the line with a line at an angle to the wire, a lot like a light button you can turn on and off. Facebook Tweet Pin. Welcome to Plbg. Questions and discussions about toilets, sinks, faucets, drainage, venting, water heating, showers, pumps, water quality, and other exclusively PLUMBING related issues. Please refrain from asking where to purchase a product, or business, pricing, or legal questions, or for contractor referrals, or any questions not related to plumbing. Keep all posts positive and absolutely no advertising. Our site is completely free, without ads or pop-ups. We do not sell your information. We are made possible by:. I messed up. Was getting new siding on my garage and I disconnected the wiring to my well. Contractor turned out to be really messed up and a few months later the siding is still not up and I fired the contractor. Wanting to hook my well back up since we are in the high 90's and my yard is screaming for water, it turns out I did not mark the wires as well as I should have as I did not think it would be months later when I was hooking it back up. The system is a submersible pump, a pressure tank with a pressure switch and a control box. I marked the wires going from the pressure switch to the control box and the fuse box, but did not mark the wires coming from the pump as it was lying outside. The problem - when they installed the submersible pump, they used 12 gauge wire but it is not color coded, so I have no idea what wire is what. Coming out of the pump are 3 wires but they are all the same color - is there anyway possible to determine what wire is what without pulling the pump. I am told the pump is submerged about feet and I really hate to pull the pump to figure out what wire is what. I am taking for granted if I wire it wrong the pump will run backwaerds? ANY help is deeply appreciated. Use an ohmmeter, and check for continuity low resistance between the ground of the pressure switch and each pump wire. The ground wire from the pump will read low resistance to ground. The other 2 wires are the pump leads. Neither of the pump leads should read much continuity to ground, but will register a hundred ohms or so between each wire. That is the motor winding. The pump is AC so you cannot make it run backwards by reversing the leads. Likewise, you cannot hook it up so that it's lifefspan will be reduced. It will either work or trip a breaker. Turn the power off at the breaker before testing!! PS There's a chance that only 2 of the 3 wires are active, and the 3rd is not used not grounded , depending on how the pump was wired on installation. I say all this, assuming you have a standard volt pump and the usual SPDT type pressure switch. You mention a "control box".. Edited 3 times. A control box is used with a 3 wire pump, the control box contains the starting capacitor. Since you have no colors you'll need and ohm meter. The 2 wires with the lowest resistance will the for the , the remaning will be your start capacitor. As a side note I won't consider using a 3 wire pump with control box unless the pump is going to be deeper than ', anything less than that I send the start capacitor down the well and use a 2 wire pump. It is a single phase motor, so it will not run backwards, but a lot of other things could happen depending on how the motor has to be wired. A continuity tester MIGHT tell you which two leads are for the motor itself, but the third wire could be a ground or a capacitor feed. We cannot tell which without seeing a wiring diagram for the motor or the control box. I am pretty proficient with a meter so I will get on that. It is a 3 wire v pump and I was thinking one wire red started the pump, one wire black kept the pump going and the 3rd is neutral? With plastic pipe, there is NO continuity between the control box ground and the pump's ground, so it will show "infinite" continuity. Sorry if I misled you, as I have never seen a residential well with a control box. Most are simple single phase vac using W,B, and ground. If your control box motor terminals are marked Red Yellow Black then like HJ says one lead might be for a start winding or capacitor and if not connected correcly CAN cause troubles. You might check your wellhead. There may be a junction box there where the 3 black wires tie into the R-Y-B wires from the pump, and you can ID them. Here's a link to article that may be helpful: [ecmweb. I would back to the relay box? Just apump. I popped the lid on where the pump is and the wiring was spliced at the top and I could make out different colors on the wiring. There are 3 colors, Red, Green and Black. I took for granted the green was the yellow. I hooked them up to the control box and it sort of worked - the pump would kick on and start to fill the tank is a 52 gallon tank I believe but I turned on the faucet and it would run for only seconds then the pressure switch would immediately kick off. The gauge would go from say 30 psi to 0 instantly. Kept doing it so I pulled the gauge and switch to see if there was any think blocking the orifices as I do have sediment in the water. Did not help. The pressure switch is only a couple years old, but thinking it is a pressure switch problem now? I am thinking I just need to get a new switch and gauge and see what I have. I did try to "drain" the pressure tank to clean it out some - it is also only a couple of years old. It had a small tank on it and I was hoping to be able to water my lawn so bought this one. Turned out I have so much sediment in my water it kept clogging the sprinklers. I bought a

filter, but I think the pump is too low because it would clog up after a few days too. Looks like I will be doing some well work after all IT would be a "rare" wiring system that used a green wire for anything other than a ground, unless the yellow wire, not the green one, came FROM the pump. Although a submersible water pump may not be attached to the metal well casing, the code requires that the casing be bonded to the cfircuit equipment conductor. Only you hj. I am not sure he even knows the number of phases of his pump? Hello I have a sumo Submersible Pump made in England, it was in the well when we bought our house. I would like to get it running again. It also has red, black, green wire. I had it running in that manner. If i changed the red and the black the water flow was not as much. It will start as soon as i take the cap out of line it slows down, not sure if it's even getting up to speed? Thanks Norm. Search for plumbing parts on our sponsor's site:. Special thanks to our sponsor:. Over , strictly plumbing related posts. How to Show Images. Post Reply. Re: wiring submersible pump - what wires are what? Thanks Post Reply. You will get someone electrocuted. Thanks Norm Post Reply. Please note: Inappropriate messages or blatant advertising will be deleted. We cannot be held responsible for bad or inadequate advice. Please follow external links with caution. We are exclusively for plumbing questions. Over , strictly plumbing related posts Welcome to Plbg. Newest Subjects. Replacing your submersible water pump can be easy, but before pulling that pump from the ground you need to safely assess what type of system already exists. Then you're ready to start the process of getting everything replaced and wired properly. The main breaker panel should have a wiring schedule handwritten inside the front door panel. Use this guide to find which circuit is your submersible pump and turn it off. Now look to see if the breaker takes up two breaker spaces or one. Two spaces is a volt system and one is a volt system. This is important when ordering your replacement pump. A submersible pump can be either two or three wire, regardless of the voltage coming from the panel, so start at your pump and follow the conduit back. If the conduit runs into a control box before continuing to the water pressure switch, chances are you have a three wire pump. If it runs straight to the pressure switch, it is a two wire. The third wire is attached to a start capacitor within the control box because larger motors need help when they first fire up. Even though the breaker is off, check the circuit with a voltmeter. If you don't have a meter, you can run the water to see if the pump kicks on but using a meter is best. Check for power at the pressure switch usually located near the base of your water tank and attached to the water pipes. Check both sides of the switch to confirm zero voltage and you are ready to remove the pump. The diagrams for both the two and three wire pumps can be downloaded using Adobe. To replace the two wire pump:. Foreign three wire pumps may have different wire colors than the U. In this case it will be a volt pump with the black wire attached to R, the blue wire attached to Y, and the brown wire attached to B. Photos and advice will help assess and diagnose just about any problem; of course, whenever you're in doubt of your ability to do plumbing and electrical work, call a trained professional. Knowing your home is the best investment, because when you need experienced help, you may get sold additional items that aren't needed. Using the diagrams can help you follow a professional's work as an educated homeowner. Click here to download and print diagram. All Rights Reserved. Can I power my shed with volt from the volt well circuit? I have an existing volt electrical service to a well pump. Additional Comments: Great site especially with the ability to ask a question and receive an answer. Estimated Time: Depends on personal level experience and ability to work with tools and the condition of the soil where electrical conduit will be installed. Precaution: Identify the pump circuit or power source, turn it OFF and Tag it with a Note before working with the wiring and connections. Working in an electric panel is dangerous due to arc flash hazards and the possibility of electric shock. Notice: Installing pump circuit wiring should be done according to local and national electrical codes with a permit and be inspected. Home Electrical Codes. Electrical Wire for the Home. I have a home supplied with a submersible well pump motor. The pressure switch and control box is installed in a closet in my garage. I am moving a Mobil home in the back for my mother. I have a existing water line straight off my well head going to a frost free water hydrant. I would like to use this line for her water supply with a separate tank and pressure switch in a small building close together. My question is how do I wire both services where the will not interfere with each other when they both are calling for water. Thanks Jess. Hi Jess, If I am not mistaken, there is a check valve between the well pump and the pressure tank to prevent back flow to the well, and there should be a check valve on the top of the pump as well. The operation of the pump to maintain the pressure of the system will depend on the position of the check valves and the pressure switch. Besides, both tanks will be supplied from one common line, so the operation is still limited to the single well pump, you are just branching off of the system. It would be good to make sure to have an isolation valve for each service before the tanks. These are just my own thoughts, you may want to share your project with your local well pump expert and get their feedback. Keep in

mind that my thoughts reflect a typical set up where the pressure switch is located at the well head, and the water system branches out from that point to the home services. I hope this helps, Dave. I have a 3 wire volt submersible pump I want use just for irrigation. I have volt control box for a 3 wire volt pump. I know where to hook the red yellow and black wire from the pump, but where do I hook the neutral and hot wire from my to the L1 and L2 leads on the control box? Thank You. Hi Ron, The wiring connection to the control box will depend on the type of control box you have. Typically a control is nothing more than a switch where there are one or two pairs of contacts that are used for turning the pump on and off. If the control is manual then a neutral wire may not be required. Trying to hook up my V well pump. The pumps pigtail has 2 identical black wires and a black and green wire. The black and green is the ground? Does it matter which black wire is connected to the white wire and the black wire on my 10 2 with a ground. Need help wiring the pressure switch too please. Thanks John. Hi John, Please excuse the simplicity of this answer, but what does the instruction sheet tell you that came with the pump

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? All well pumps come with a wiring diagram which provide specific instructions for your specific pump. In most cases if the leads are the same color then the polarity does not matter, but check this with the installation sheet and wiring diagram. Wiring a pressure switch is simply breaking the circuit power through the pressure switch contacts. Name required. Email will not be published required. Get a Quick Reply! Ask an Electrical Question. Jesse Allen says:. July 10, at am. Dave Rongey says:. July 10, at pm. March 7, at am. March 7, at pm. John Schulze says:. January 16, at pm. Click here to cancel reply. Electrical Circuit Wiring for an RV. Estimated Time: Depends on personal level experience, ability to work with tools, work with electrical wiring, and the available access to the project area. Important: Modifying existing electrical circuits or installing additional electrical wiring should be done according to local and National Electrical Codes, with a permit and be inspected.