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Harmon, author, .P iet, from Boise, Idaho, has a power line in that box and at least three wires need to disappear. One for each light. However, there is a way to put two of them in one 3-wire Romex, using black and red as switch legs (one for each light) and neutral. Does that answer your question? March 27, 2016: I want the l2x4 box to have three light switches and a switch moses for every light on October 11, 2015: That's what good jobDan Harmon (author) from Boise, Idaho, is looking for on March 29, 2014. Thanks to the switch-controlled lighting load supplied by a fixed general-purpose branch circuit, a ground circuit conductor for the controlled lighting circuit must be provided at the switch position, thanks Pat. Three-way switches are not really that hard and are a bit different from what most people are used to thinking about switches. The code called a certain wire to color for the traveler and was looking to see if it happened on your site. I'm glad to see that there are individuals out there who take the time to describe the features of the 3-way circuit in easy-to-understand details as you have. Praise. I have a question. Which article asks to be neutral to all switch boxes? But it would be beneficial to be able to show customers that they have to pay a lot for the job! March 5, 2014, Dan Harmon from Boise, Idaho (author): A new four-way switch must be installed between the two three-way switches. While it means electrically, it doesn't necessarily mean physically. You need 12-3 from 3 methods to 4 ways and 3 other methods. Instructions and diagrams can be found here: center/how-towire.. Spencer March 5, 2014: I have a 3-way switch that is working properly in my basement. I would like to add another switch to make it four ways between the two existing switches. I have a 12-3 run from switch to switch. Power to the light comes out of switch 1 of 12-2. Is it possible without removing the dry wall? on March 2, 2014, Dan Harmon from Boise, Idaho (author): Motion sensors don't sound as if they're three-way. Are you sure they are absolutely positive? Two black wires are not enough - what are the other wires/colors in the box?My two new motion sensors have three red blacks and ground, but the old switch has two black wires that I know witches one is common, but there are only three ways to connect fourth wire Dan Harmon (author) from Boise, Idaho, on December 27, 2013. Check with the switch that is powered and make sure that the first power source and other travelers are supplying power when the switch is flipped. Otherwise, one of the travelers is exchanged for power here. Next, make sure that the other switches can transfer power to a common wire, regardless of which traveler is hot. If not, one of the wires will be replaced with a common going to the light fixture. From the description, the problem is with the power switch. That switch should always generate power in one of two travelers. Jerry Leviner December 27, 2013: My problem after wiring a new light with two three-way wives is that if both switches are down, neither switch will turn on. It loses power with a non-power switch! What did I do wrong? on June 26, 2013 Dan Harmon from Boise, Idaho (author): If you put both a black fixture and an earth wire from a circuit breaker to a black wire, the best thing it does is blow the breaker. More likely, in housebuilding, every time the lights are on, all the metal in the fixture will be hot. Touching both a light source, such as a sink faucet, and a light source will shock you. So it's absolutely not OK to put earth wire on a black wire. If there is no ground wire in the house, simply tack the ground of the fixture back to the box. The main purpose of the ground wire is to blow off the breaker if the fixture is somehow defective and the black wire touches the metal part of the fixture inside the fixture. As long as the fixture is in good condition (it's probably a new fixture), there's no problem. I have a friend who is working in my bathroom, but it has old wiring coming from circuit breakers. The new light fixture we are adding has a grounding wire. He stated that you can twist the ground wire to a black wire. Is this correct?April 20, 2013 Dan Harmon from Boise, Idaho, author, will do well. For wiring diagrams, see the four-way switch article. Just keep adding four way switches to the diagram and it always switches between the two three-way switches. There are two three-way switches, one at the end of each switch's line. One three methods have the power to come in, while the other cable supplies the light itself. Do not use 14 gauge. com circuits with 20 amp breaker.https/home center/how-to-wires.April 20, 2013, 4 way switches.bob article: I need to use 3-way and 4-way switches to power one light from 7 or 8 different locations 14/3 using wires. I can do a lot of Dan Harmon (author) from Boise, Idaho on November 29, 2012: Amshas. I don't know what you see. If you can be more specific about your needs and what you're trying to achieve, perhaps I can help you on November 27, 2012: This is useful, but I need 3-way 3 switchDan Harmon (author) from Boise, Idaho on September 13, 2012: All you're missing is the presence of on or off on a three-way switch. When the toggle goes up, the common terminal is connected to one of the travelers, and when the toggle goes down, the common terminal is connected to the other traveler. There is no off position. One or the other of the tourist terminals is always connected to a common terminal. Wiring diagrams basically show the different ways in which cables can be physically run. In each case, one common common is connected to the input power source and the other to the light. The traveler terminal is always connected to the Traveler terminal on other switches - never to light or incoming power. September 13, 2012 Robert: Sorry, all four of these wiring digrams look the same to me. These are not independent connections. If the first switch has turned on the second switch, the second switch will not work if the first switch is off. I'm not looking for a solution like this. July 11, 2012 Dan Harmon from Boise, Idaho (author): Thank you for being flattered. These switches may seem complicated at first, but they are actually quite simple. Their best thing is that they are electrically connected in the same way, regardless of the physical reality of always performing wiring. Dan Harmon from Boise, Idaho on February 23, 2012: If you have three white wires on one side, they are all neutral wires or grounds. Hot placed on the same side as neutral or ground immediately blows off the fuse or breaker. With more information, I may be able to provide more specific advice. Is this an old (pre-1950s) knob and tube wiring? Is there a wire spliced together in the box? Is this always half hot and has to be a switched replacement outlet with half switched? Is the wire old enough to suffer from color changes, at least to the point that black has become gray or dirty white? So far I'm looking at a box with three neutrals and one hotwire. I can't imagine any application where this would probably be advantageous except for knobs and tube wiring, cables didn't exist. All normal house wiring has black and white on at least each cable. Or is this anything other than a house with wires in a box on February 23, 2012?On the hot side of three white wires on one side of outlet 1 - i can assume that one of the white wires should also be hot.?Since the outlet doesn't work?From thanksDan Harmon (author) Boise, Idaho January 03, 2012: @Stefan - If you splice the white wire hot, it's hot, not neutral, and no one should color at both ends so that you don't mistake it for the actual neutral. Black tape is fine for this purpose. Understand that it's not a neutral color. That's where it ends up with the breaker panel. These wires and the electrons flowing in them do not know what color the insulator is. But people do, and that's why the NEC has stipulated that all neutrals are white - when you splice that white wire into a black hot, it should no longer be neutral and not white. Interestingly, its rules are so important that NEC will not allow you to color the wire white. You can change the color from white to another color (except green), but never from black to white. The only exception is the #4 and the big wire, which is so big that the only use in most homes is from the street to your home. Stefan, January 03, 2012: Thanks for Figure 4. No other books I saw at Home Depot or online showed Figure 4. Once I hooked everything up, I color-colour-coloured neutrals spliced to hot with black tape. I hope this was the right action, as neutrals spliced into hot acts like hot when the proper switch combo was performed. Did I get it right just by labeling the second switch box neutral hot? All sites in the same box are always connected (exceptions are made for special computer circuit sites). Let me see if you understand what you are going to do. You have four three-way switches and two lights. Two switches run lights (A) and two switches run light(B). The fuse panel powers the box with the first switch (called 1A). The same power goes to the switch (1B). In that respect, the wiring is the same for each control circuit. I'm assuming I'll wire one light here as shown in Figure #3. Other lights with their own two switches are also wired as shown in Figure #3. In this case, the power supply (black), neutral (white) and ground (bare or green) of the wire must go to both of the first two switches (one for each light). All you have to do is run two ropes between these two switches, splice them into the cable's power supply, and treat each set of switches as independent. If this answers your question, please let me know. Otherwise, please let me know in one of the different comments or emails here (contact information near the top right below my profile information). These things are difficult to answer with limited information, just written words.We can solve it. BradG, January 2, 2012: Do you have any suggestions for wiring two separate 3-way switch settings (switch switch lights) from the same power supply? Do I need to separate the grounds, too? on December 7, 2011, Dan Harmon from Boise, Idaho (author): It's really hard to diagnose from afar, but the power coming into the second switch always comes into travelers (when the first switch has the first power cable). You must have two wires marked as travelers and a general wire (there is no hot if the second switch is not wired). If what was marked T was never hot, I would suspect it was common, not a traveller. Wires can be traced using a voltmeter or non-contact voltage detector. The wire is capped in the second box to make sure it is safe and turn it on. Flipping the first switch will make it hot and you will see two wires that are cold when the switch flips - these are the travelers on the second switch. From your description, it will leave two wires. Hook one of them to any traveler and turn that traveler hot; However, it may be wired with a second switch that the previous owner did not work properly with. If you use the #3 wiring diagram above and use only two rope wires, the switch may not work properly. That's probably what happened?dr December 6, 2011: We have an old house and had a three-way switch to connected fans/lights. The power supply is on switch #1 and works if only the #1 switch to the fan/light is used. But I'm about to add switch #2. We had a wire marked T- Traveler, but we can't get the switch to work #2 again - we can't seem to get power into it. There are no modern 3 wires used, it was two separate double wires originally used. Can you go from power switch #1 to switch #2? Would it be better to run a new 3-wire on switch #2, or would you try to get it to work again in this state? The colors of these wires and the light switches in the three ways all seem confusing, but it's not too bad once you understand what's really going on. I'm glad you find it useful, and thanks for the comment. Hearing that on November 14, 2011 I was able to help, in many ways, I am now deepening my understanding of the terminology and wiring methods, Dan Harmon (author) from Boise, Idaho, on September 11, 2011, is good. It's certainly tempting to cut back and save time and effort, but this isn't the place. Wade on September 11, 2011 is too dangerous now and in the future: thank you! wouldn't have felt good about doing it that way. But he had his wall for the addition of his room, running the wire. I thought I might save time from his setback. Again, thanks, I find it's not worth the risk. September 9, 2011 Dan Harmon from Boise, Idaho (author): Yes, in more ways than one. Without ground, there is a risk of potential impact. You cannot use the legally required grounding screws for the switch. It is not legal to do what you are proposing, and any future problems that can get to that wiring (perhaps the house burns out) are the responsibility of the person who did it. In many states it is illegal to sell a house with such a known defect without notifying the buyer, then the sale probably won't go through. In short, don't do it. As an electrician, I wouldn't do it and would refuse if ordered by my boss. It's just not worth it. These codes are in place for very good reasons and should be followed. Good luck with your project.wade 2011: Help a friend with the wiring 3 way, he has already run 2 wires/ground on the ground to the switch, if we skip the ground, am I asking for trouble? (Using ground for travelers) September 7, 2011 Dan Harmon from Boise, Idaho (author): Thank you both for your comments. Useful information will help me find useful information on September 7, 2011: I look at Connecton to learn simplification, thanks to wild uManna from Australia on March 6, 2011: this is useful. January 25, 2011 Dan Harmon in Boise, Idaho (author): Thanks for the comment - hope to find the use of information.whitton on January 25, 2011: This very from Boise, Idaho on November 29, 2010 Thanks for the informative Hub.Dan Harmon (author): Thank you, Ya who rang November 2011! Well done and well written electric article! November 17, 2010 Dan Harmon from Boise, Idaho (author): That's good to hear. Thanks for the comment - when someone lets me know that I helped them, I appreciate it. October 27, 2010 Dan Harmon from Boise, Idaho (author): Thank you. I hope someone can help wire 3-way switch stars439 from Louisiana, Magnolia and Pelican States. October 27, 2010: Great information. October 18, 2010 GBYDan Harmon(author) from Boise, Idaho, is absolutely right that it can be very frustrating. I tried the trouble of shooting a friend's job once, but he had installed four ways (which is possible and works), but it was wired wrong. If I didn't notice the fourth screw it looked right, but it didn't work properly. Almost 2 hours tearing all the switches and 4 small cans before I notice his error!Methods lead to some interesting and often frustrating experiences. October 18, 2010 Dan Harmon from Boise, Idaho (author): Thank you for your compliments. Just wiring a three-way switch, a lot of people have problems. My hope is that the diagrams and explanations will help you understand it for those who have a modicum of experience there. At least you've found a problem. Many end up hiring electricians for five-minute jobs! I bought what I thought was a three-way switch. Imagining my frustration after checking my wiring three times, I checked the 3-way switch to determine that it was a normal single pole, on-off bidirectional switch. Great information for those who understand the concept of wiring.....

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