

I'm not robot!

Access and download products sheets, instruction manuals, software updates and other material for your tools and equipment from the menus below. If you are an accredited Service and/or Calibration Centre, click below to access additional resources. Simple and easy way to do spot welding at home. Watch full video for better understanding. For YouTube Channel Link click here. First what you need is the thing to which you want to do spot welding to. In this case, I have used a lithium ion battery to which I am going to spot weld nickel alloy strips. You will need 2 of these strips for both the terminals of the battery. A low voltage high current source. In my case I have used a 2.7V 100F super capacitor which produces a maximum current of around 100 amperes. You can also use a 500F or above but it becomes difficult to the thing to which you are doing spot welding to from high current which melts the metals. You will need 2 thick copper conductors that can withstand the high currents produced during short circuit. You can get these from copper shading ring induction motors that are no longer of use. Thin copper conductors won't work and will melt easily. A multi-meter to measure the voltage rise when you are charging the super capacitor to their rated voltage. I have gone to disconnect the charger as soon as the capacitor reaches its rated voltage or it will burst open after abnormal heating. Check the voltage of the super capacitor for the final time before doing spot welding. Make sure that it is fully charged. Touch one copper rod to the battery terminal and the other to the nickel alloy strip and then touch the nickel alloy strip to the battery terminal. The circuit will complete making a short circuit and creating a heating point high enough to melt and stick the 2 metals to each other. Repeat previous step to the other terminal of the battery as well. You have successfully completed your first spot welding. You can also check the charge left in the capacitor and discharge it completely for safety purposes. Sewing machine manuals are an invaluable tool when it comes to understanding how to properly use your machine. These books guide the user through each aspect of the sewing machine, which tasks it can perform and how to operate and troubleshoot a particular model of the machine. Sewing machine manuals can often get lost. For those who purchased a sewing machine used, it may not come with a manual. Not to worry, there are a number of ways to replace a lost or damaged manual. Sewing machine companies understand that machine manuals get lost and will usually assist in replacing an original manual for any sewing machine, even one inherited or bought at a yard sale. Each make and model of sewing machines produced around the world is unique in certain ways. As a result, finding the right manual for a machine can be tricky for those who don't know exactly which make and model they have. This is especially true when it comes to older versions. Sewing machine manuals are considered a "part," or an essential piece of equipment to the machine. For those who know the make and model of the sewing machine, it's likely they'll be able to locate a manual. The first step is finding the machine's manufacturer and model number. Most machines have a manufacturer's name somewhere on the machine. The model number may be on the back or bottom of the machine. For those who cannot find a model number anywhere, take a photo of the machine, and try emailing it to the manufacturer's customer service email address for help. Another option is to look at the official company website of your machine and review their database to find a match. Common sewing machine companies include Baby Lock, Bernina USA, Brother Company, Elna USA, Husquavarna Viking, Janome, Pfaff, Riccar, Singer, and White Sewing Machines. While some of these manufacturers have extensive collections of manuals dating back to the start of their companies, others' collections only keep the newest models' manuals in stock and must reprint or source older resources upon request. Shoppers Rule is a website that sells instruction manuals for more than 15 sewing machine brands. If the manual is still in print, they'll receive an original; if not, they'll make a copy. In the rare case that the manual isn't readily available, they'll try to locate one. The sewing machine manufacturer Singer offers manuals for all models at various prices. Simply use their "Consumer Products" section of the website to locate home machine manuals. Meanwhile, the other companies listed above typically have most of the manuals people are looking for on their own websites. Alternatively, try an internet search of the machine's make, model, and the word "Operation Manual" in quotes. If the machine is a popular model, chances are a PDF version will be available for free (or minimal cost) to print and download at home. No matter which option used to replace a specific manual, it shouldn't be too difficult if the machine was made in the last 100 years. Water Pumps + Drainers Steel Pipe Cutting Tools WAGA Multi Joint Inflatable Pipe Stoppers and Packers





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