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Caswell plating manual

Contains detailed instructions on electroplating, anodizing, metal polishing and other metal finishing techniques using Caswell Inc. Now version 10 GUARANTEE kits and products We guarantee that our manual is the best on the market for a miniature plating operation. If you can show us a better one: we will refund the money! Caswell Plating Manual version 10 has been completely revised. Each section now contains an easy-to-follow chart describing the steps involved during the process. It is undoubtedly the most advanced 'how to' plating book available today. It contains more than 180 pages, specifically addresses small-scale plating problems, and whenever possible uses the Keep It Simple formula. Standard plating techniques such as nickel and copper have been updated, and many new systems, such as tin plating, boron nitride and black krome, have been discussed. Detailed instructions on how to hard chrome board tooltips, gives the beginner a completely new perspective in his workshop. The anodizing section shows how 'splash color' anodize (just like the way paintball guns are made), using a new range of Caswell dyes. There is an excellent section on bronzing things like baby shoes, and another on glass crockery. N'Plate plug plating brush™ kits is a cheap technique to make small local repairs or to gold plate these emblems of the car, or this old fob watch. The new antiquing solutions provide a whole spectrum of effects. Chrome and Anodize stripping techniques are discussed thoroughly, as well as new concepts for plating lead work, which is imperative for fishing baits, sun catchers and stained glass making. Finally, a whole chapter on environmental issues demonstrates the effective reduction of waste, its elimination and emissions, and the requirements of the EPA. Customer testimony I sat down and actually read his entire plating manual last night and this morning. It's very informative. I feel like a plating expert and haven't even started bathing yet! You did a very good job of gathering the manual. I went from not knowing anything about plating to believing I can make a go of this business. James Watson's \$30 cost of the manual is refundable when you buy any plating kit containing the manual. Security Information Product Videos Write a Review 5 Posted by Kevin Ginter on May 28, 2015 Very well along with a lot of good information for the starting dish. Lots of troubleshooting tips and steps to carry out the right bathroom. 5 Posted by ray troyer on July 14, 2014 Caswell Plating's Manual is very informative and written in a way that is easy to understand, even for beginners like me. 5 Posted by Dean On July 26, 2013 Very informative 5 Posted by Terry Trembly on February 24, 2013 I am very pleased with my order from Caswell and intend to order it again. New. Terry Trembly 5 Posted by Larry Bloomer on February 8, 2013 This is a great resource for people who, like me, know little about the dish but want to learn. I hope it #039; excellent relationship even for people with some experience in the field. It's certainly worth every penny of it's low price. Copper pipe for the copper wire tank bar to hang items Small amount of electrical wire to make DC connections Power supply – Included in some kits. Check the contents of the kit on the Optional Rinse Tanks website (or rinse over the plating tanks with a bottle of water) Other minor household items such as gloves, water, etc. may be required. DC Power Supply (Standard Kit Only) 1 Gal Battery Acid Dyes (if desired) Optional rinse tanks (or rinse over plating tanks with a bottle of water) Other minor household items such as gloves, water, etc. may be required. You can purchase our Caswell Plating Manual and learn how to use kits, before buying a kit. Just order here. When you are ready to buy, we will discount the price of the kit. Do we already have our plating manual? If you are from the order of a plating kit that contains our Plating Manual, and you already have our Plating Manual, you can remove it from all the kits that contain it and save \$30 per kit. Just use the NOMANUAL coupon code in the shopping cart at the checkout. Embedded size (px) 344 x 292429 x 357514 x 422599 x 487TRANSCRIPTELS PRINCIPLES OF OSMOSIS REVERSE PLATING SECURITY PROCEDURES AND PH METER SOME THINGS YOU MIGHT NEED CREATING SOME THINGS YOU MIGHT NEED TO SET UP A WORKSHOP WARMING UP THE WIRED PLATING SOLUTIONS OF THE POWER SUPPLY PARTS MAKING A NICHROME ENERGY CONTROLLER REPAIR PITTED METALS PREPARING THEIR STRIPPING SOLUTIONS AND INTRODUCTION OF DISH ENGRAVING PROCEDURES SHINY NICKEL GRAPHIC METALS AND CHROME PLATED ZINC COPY INSTRUCTIONS FLASH COPPER PLATED GLASSY ACID PLATED COPPER PLATED BRONZE PLATED DECORATIVE CHROME GENERAL CHROME HARD PLATING INSTRUCTIONS CHROME PLATED ACID PROBLEMS BRIGHT PLATING PROCESS BLACK KROME PLATED CHROME PLATING ZINC PROCESSES SILVER TANK PLATED GOLD PLATED GOLD ACTIVATOR STAINLESS STEEL FOR GOLD LCD ALUMINUM ANODIZED SYSTEM DISAPPEAR ANODIZED BRUSH PROCESS PLATED WITH CAP N GOLD PLATE PLATED EMBLEM USING TAP N BATH PLATE WITH TAP N PLATE FASTGOLD ELECTROLESS NICKEL &KROME PLATED NITRUR NITRIDE NICKEL ELECTRIC BLACK NICKEL OXIDATION STEEL RUBBING IN SILVER PLATED OXIDIZING ANTIQUING PLATED PLASTICS AND NON-CONDUCTIVE BRONZING BABY SHOES PLATING LEAD, PEWTER AND STAIN GLASS OBJECTS WASTE TECHNICAL SUPPORT THE WATER BREAK TEST CALCULATING SURFACE AREAS 3 6 7 8 15 17 20 23 25 28 30 33 34 35 39 40 43 46 49 52 89 90 92 94 96 101 104 108 110 112 120 128 129 130 132 133 138 141 142 143 144 145 146 147 151 152 153 1 This manual is a reference book. We suggest you read the entire book before proceeding, and then you should refer to specific sections at work you are trying to get. It would be ideal to be able to write this book in a 1-2-3 way, but there are so many variables, it would be impossible to cover them all. Weve has been in the business of supplying small plating kits for many years, and as it progressed, so did our plating manual. This is our ninth version and represents a radical shift in thinking when it comes to the power supply for each plating kit. Now, we are firmly convinced that most problems can be eliminated, and more consistent results achieved if the amateur plater has a better understanding and better control of power. Therefore, missing are light bulbs, and other cheap methods of energy control, missing are rectifiers that have no constant current control. Our systems now revolve around new power plants that give you phenomenal control, making plating simpler and more predictable. Weve removed some elements from the manual, and bequeathed a few others to the back of the manual, to keep the book more concise and to the point. I always like to hear from anyone who has any trick of the trade they would like to share, or improvements they may think of. Images of bathroom configuration, current project and completed work are always welcome. Either show them on our website in our Restoration Gallery, or you can produce your own gallery in our online electroplating forum. We even want pictures of jobs that didn't go too well. They were building an online troubleshooting gallery, so customers can look at the kinds of things that go wrong, and easily figure out how to rectify them. Therefore, these entanglements are good for us. Just like Thomas Edison said about his failures, Im one step closer to success because I know the work of DOESNT. So, please email us to your stories and photos on sales@caswellplating.com I am particularly happy to say that our LCD anodized system is undoubtedly the most advanced system for amateur operators anywhere. The instructions are much more accurate and the results are very consistent and predictable. We have found that precise power control brings consistent results, better than most professional anodozers provide. Our technical support continues to improve. His first line of defense is, of course, the manual. Almost everything you need to know is somewhere here; just take the time to read it about a few times. Below, we have our online technical support which logs the problem and logs our dialogue as we resolve the issue for you. My is the online plating forum, where thousands of our old and new customers gather to exchange ideas, and where you get support from your peers. No doubt these guys are good and that's where you'll get most of the help. If you can't solve the manual problem, then post the question here, before using our technical support: you will get several points sight, and find this a fantastic service. Watch and search the electroplating forum There are some great tutorials on the website too: Clip 5 – The Waterbreak Test 256k QuickTime Tutorial 1 – How To Electroplate (38kb) Tutorial 2 – Setting Up the Control Tank Dish (172kb) Tutorial 3 – Power Control with Bulbs (303kb) Tutorial 4 – Understanding Anod Placement (275kb) Finally, we have a new 40-minute video on Triple Chrome Plating. This is a great value and will teach you the basics very quickly. See . Recently, we started putting this video with all the Triple Chrome Plating kits. I hope you enjoy the manual, and good luck bathing. Mike Caswell 2 //forum.caswellplating.com/ //www.caswellplating.com/movies/ //www.caswellplat ing.com/movies/ //www.caswellplating.com/kits/tcvideo.htmlThe principles of silver electroplating are the depositing of positively charged metal particles (ions) moving through an electricity solution, attracting them to an object that has been given a negative charge. Using the immersion plating technique, the shaping object (the cathode) is connected to the negative side (-) of the power supply, giving it the negative load, and a metal plate usually made of the plating metal (the anode) is connected to the positive side (+) of the power supply, giving it a positive charge. Positive ions flow from the anode to the object that is plated, through the plating solution (the electrolyte), and are deposited on the surface of the object. The longer the system is left, the thicker the resulting plate. Commercial platers usually 'TRIPLE' chrome steel plate as follows: Copper attack cyanide coat for joining acid copper plate to fill high-build nickel plate for chrome corrosion resistance Plate For color and nickel protection The cyanide attack coat is an economical method of providing a quick link for nickel, but since it is only a very thin layer should be built with acid copper. Copper acid can layer plates up to 1/4 thick, given the time, and because it is a soft metal, it can be polished to give a nice lute. This is the scenario where commercial platers spend their time getting the 'show quality chrome' finish we all know. The nickel plate is the hard protective layer, and it's really the 'guts' of a chrome plate. It's this nickel that usually sees peeling from an old bumper. Because this is a hard metal, it is harder to polish or burn, so it is essential that all stains and repairs before this plating stage. Nickel, given the time and elements, will become bored, giving an almost leaden flat appearance. This is one of a it is often easily returned to life with some chrome polishing, but it is for this reason that chrome is applied. The decorative Chrome plate is a very thin layer of plate. It can be applied directly to many metals, but is extremely porous and will allow the part to rust in no time. Only by providing suitable under layers of copper and or nickel, this will be avoided. Our new Triple Chrome Kit offers a similar setup to the commercial plater, except that we use a FLASH COPPER attack layer instead of cyanide copper. FLASH COPPER will bind to almost all the same materials as a cyanide copper plate. The obvious advantage is that FLASH COPPER is much safer. Our new triple chrome board procedure is: - FLASH COPPER 15 minutes Acid copper plate 15-30 minutes - only if repairs are needed. Nickel Plate 30-45 minutes Chrome Plate 2 - 4 minutes Often, a nickel plate can be applied without the underlying copper plates. This will work particularly well in steel. There are many combinations of board that can be used. There seem to be no real established rules except that, if it works, do it! Our most successful customers experience a bit, once they have mastered the basics. A simpler and more effective alternative to real Chrome plating, is to use Copy Chrome. This can be applied directly to steel, copper, brass and bronze, so it will also go through FLASH COPPER. When the most difficult metals, such as lead and pot metal, the COPPER FLASH can be applied as a primer, and then copy applied Chrome. 3Brush Plating is a technique that allows you to placate a small area on one part without submerging it in a tank. This is especially useful for making tweaks, or gold plating, where the solution is expensive. Electroless Plating is a chemical reaction of the piece and the solution, usually heated, that plates the part extremely evenly. This technique is very useful for small pieces, Practice makes Perfect. The best platers keep notes! Recording your successes and failures is the best way to learn, and practice really makes perfect. If it's not working, you're probably doing something wrong! Check the procedures with the manual and try again. If you can't get angry, make a note of what

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