



# Operating Manual

Please Read Before Operating Unit



## Models DSP1, DSP2 & DSP3 Stripping Pots

Service and All Spare Parts Available

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# DIP STRIP & STRIPPING POTS

## SPECIFICATIONS

### DIP STRIP:

Melting Temperature..... 500°F (260°C)  
 Normal Use temperature ... 700°-750°F (371°-399°C)  
 Maximum operating temperature..... 820°F (438°C)

### Stripping time (test examples):

18 AWG (1.02mmø) Polyester insulation - 2 seconds  
 24 AWG (0.51mmø) Polyester insulation - 1 second  
 40 AWG (.079mmø) Nylon insulation - 1/2 second

### STRIPPING POTS:

Temperature range (model dependent).. 100°- 800°F  
 (37.8° - 426.6°C)  
 Internal dimensions ..... 3" dia. x 2-1/4" deep  
 (76.2mm x 57.1mm)  
 Overall Size (vessel only)..... 6" high x 11" dia.  
 (152 mm high x 279mmø)

## ORDERING INFORMATION

- BR1302..... One pound (454g) bag of Dip Strip
- BR1301..... Two pound (908g) bag of Dip Strip
- BR1305..... 50lb Bucket, Dip Strip
- BR1440..... 1 US pint, Dip Clean 2
- BR1441..... 1 US gallon, Dip Clean 2
- PR1403..... Neutralizer Kit (includes one 2 US gallon pail and a bag of Neutralizer)
- TR1409..... Bag of Neutralizer PG0899  
2 US gallon pail
- AR1211 (DSP1) Stripping Pot with standard temperature controller, 115V, 50/60Hz
- AR1212 (DSP1) Stripping Pot with standard temperature controller, 220/240V, 50/60Hz
- AR1221 (DSP2)..... Stripping Pot with feedback temperature controller, 115V, 50/60Hz
- AR1222 (DSP2) Stripping Pot with feedback temperature controller, 220/240V, 50/60Hz
- AR1232 (DSP3)..... Stripping Pot with high output element and feedback temperature controller, 220/240V, 50/60Hz
- PG0625 ..... 5 AMP Fuse for 115V, 50/60 Hz pots DSP1, DSP2 & DSP3
- PG0690 ..... 2.5 AMP Fuse for 220/240V, 50/60Hz pots DSP1 and DSP2
- PG0026 ..... 3/8 AMP Fuse for controller portion of DSP2 & DSP3 pots, all voltages



## DESCRIPTION

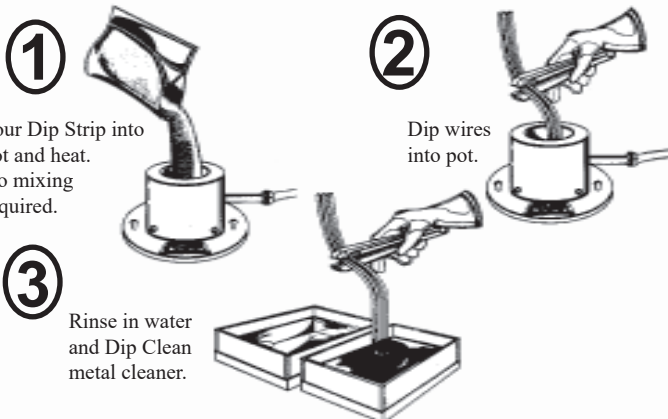
Dip Strip is used to chemically remove the insulation from magnet and enamel wires of all sizes and insulation types, without damage to the wire.

The DSP Stripping Pots are special alloy, seamless pots designed specifically for use with Dip Strip. The pots hold 1lbs of Dip Strip. The Standard model DSP1 has an infinitely variable temperature control with a reference scale. The DSP2 has an advanced feedback temperature controller. The controller allows the operator to input the desired temperature, and will then maintain that temperature. Two LED readouts allow the operator to view both the preset temperature and the actual temperature of the pot at all times. This allows precise control of the stripping operation for critical applications. The DSP3 is similar to the DSP2, except that it has twice the heating capacity and over 500% more production on heavier materials.

Dip Clean metal cleaner is used to neutralize any remaining Dip Strip on the wire after the stripping operation. It will also remove any oxidation caused by the heat and leave the wire clean and shiny.

Dip Strip Neutralizer is used to neutralize the Dip Strip to allow for proper disposal.

## OPERATION



① Pour Dip Strip into pot and heat. No mixing required.

② Dip wires into pot.

③ Rinse in water and Dip Clean metal cleaner.

## **SET-UP:**

Both the DSP1, DSP2 and DSP3 come ready to use and include a Dip Strip removal tool (IR0611). Place pot on a stable, heat and corrosion resistant surface. Provide adequate local ventilation in accordance with the Material Safety Data Sheet for Dip Strip. Secure the pot to the bench by means of the keyhole slots provided in the base. If using the DSP1, there are mounting flanges on the control unit also, to mount it to bench top if desired. Plug the unit into the appropriate power supply, either 115V, 3 AMP or 220/240V, 1.5 AMP; 50 or 60 Hz (DSP3 with 220/240V, 3AMP, 50 or 60Hz only).

Refer to the Material Safety Data Sheet for Dip Strip for proper handling and use. Pour Dip Strip in its solid form into the cold pot, filling it to the top. If using Model DSP1 with the standard controller, use the knob to vary the heat intensity. Setting the knob to approximately 6-1/2 on the reference scale will provide close to the optimum operating temperature of the Dip Strip, 730°F (388°C). Note that environment and ambient temperature may impact actual knob position.

If using the Model DSP2 or DSP3 with feedback controller, turn the power on using the ON/OFF switch. The controller will display "self test" for a few seconds, then the present actual pot temperature will be displayed in the upper red LED readout. The last inputted set point temperature will be displayed in the lower green readout. The set point is preset to 730°F (388°C) at the factory.

**NOTE:** 115V units show temperatures in degrees F and 220V units show temperatures in degrees C. As this is the optimum temperature for Dip Strip, it is not necessary to reprogram the pre-set temperature unless desired. To change the pre-set temperature, press Index (I). The last inputted set point temperature will be displayed on the upper red readout, "SP1" will be displayed on the lower green readout. Press UP arrow or DOWN arrow to change the temperature displayed on the upper red readout until the desired temperature is reached, then press Enter (E). Then press Index (I) again to return to the main display. The new pre-set temperature will be displayed. The set point lamp will begin to flash next to the upper readout (S1), indicating that the controller is functioning properly to raise the pot temperature to the set point.

As the Dip Strip is heated and turns to liquid, the level will drop. More solid dip strip may be carefully added to bring the level in the pot to the desired level. It is recommended, however, that the pot not be filled completely to the top - maintain 3/8" below the top for maximum efficiency. The optimum operating temperature for Dip Strip is 730°F (388°C). Above 820°F (438°C) Dip Strip will be subject to deterioration, with breakdown occurring at about 900°F (482°C). It is recommended that an immersion probe be used to verify the temperature of the Dip Strip when using the DSP1 pot ONLY. This is not necessary when using the DSP2 or DSP3 feedback pot.

Changing the units from degree F to degree C: The DSP2, 115V (AR1221) and the DSP3 (AR1232) ship from the factory to display the temperature in Fahrenheit degree units. The temperature units can be changed to degree Celsius. Hold the "E" and up arrow key simultaneously. You should see "On Auto". Keep the keys pressed for about 5 seconds until the display reads:

2  
SECr

Change the 2 to 111 using the up or down arrow keys. Press enter. The display will read:

4  
SECr

Press the "I" key twice until you see:

F  
Unit

Press the down arrow key to change this to read:

C  
Unit

Use the arrow key to change back to degrees F. Again, press the "E" key and the up arrow and change the 4 to 1101. Press enter. This will lock the programming configuration so that it cannot be accidentally changed. The set point will be converted from F to C automatically. Cycle the power off and then on to use.

## **OPERATION:**

### **CAUTION:**

- **The exterior of the pot will become HOT when in operation. Use extreme caution when working near hot pot.**
- **Never introduce water to the pot for any reason during operation.**

Once all the Dip Strip is melted and optimum operating temperature has been reached, the pot is ready for use. Normally the melting process will take about one hour. To strip wires using Dip Strip, refer to Dip Strip Operating Instructions and Material Safety Data Sheet.

It is normal for some of the Dip Strip to creep and form a solid ring on the top of the pot, especially if the melted level is very close to the top of the pot. This ring will rarely extend more than 1" across the flat top surface of the pot. It is recommended that the ring be periodically pried off gently and put back into the pot when the pot is cool, to remelt at the next use, or discarded in accordance with the Material Safety Data Sheet.

Best results are obtained with Dip Strip if the pot remains on at all times. Reduce the temperature setting to 250°F (121°C) when not in use. On the DSP1, this will correspond to a setting of approximately 3 on the reference scale, depending on environment and ambient temperature. If the Dip Strip Pot will not be used for extended periods of time, it is recommended that the Pot be turned off and covered to prevent moisture from reacting with the Dip Strip.

## **MAINTENANCE:**

To clean the Dip Strip out of the pot, first turn the pot off. Be sure the Dip Strip removal tool is clean and dry. Insert the removal tool into the Dip Strip, allowing the flat of the tool to rest on the top of the pot. Allow the Dip Strip to cool and resolidify around the removal tool. Once solid, turn the pot on to the highest setting if using the DSP1, or set the controller to 730°F (388°C) if using the DSP2 or DSP3. Check pot after approximately 20 minutes, and thereafter at five minute intervals. When the solid block of Dip Strip has just begun to melt around the edges of the pot, grasp the Dip Strip removal tool and gently twist and pull up on it to loosen the block of solid Dip Strip from the inside of the pot. If the block does not pull out easily, wait a few minutes and try again.

Once loose, remove the entire block of Dip Strip from the pot and place it on a rack to cool for 30 minutes. (Turn off pot until ready for next use). Then immerse the block in 1 gallon of water in a plastic or glass container with Eraser's Dip Strip Neutralizer. This process usually takes about 45

minutes to 1-1/4 hours depending on the size of the cube. Once dissolved, remove the Dip Strip removal tool from the solution using tongs or pliers. Clean the tool under running water and dry. Once the cube is finished dissolving, the solution needs to be neutralized to a pH of 7-9, and disposed of according to local regulations. See MSDS for Dip Strip Neutralizer for further details on disposal.

Turn off pot until ready for next use, or reduce heat to under 400°F (204°C), and pour in Dip Strip. If needed, once old Dip Strip has been removed and the pot is cool, the pot may be further cleaned by rinsing it out under running water. DO NOT immerse the pot in water. DO NOT allow the controller to become wet. Allow pot to dry thoroughly before using again.

## **TROUBLESHOOTING:**

**PROBLEM:** Pot does not heat (Model DSP1)

### **SOLUTIONS:**

- 1) Check fuse and replace if necessary (Part # PG0625 for 115V, PG0690 for 220V units.)
- 2) Check controller setting, increase temperature.
- 3) Check that pot is plugged in to proper electrical supply.

**PROBLEM:** Pot does not heat (Model DSP2 & DSP3)

### **SOLUTIONS:**

- 1) Check the set point temperature and reset if necessary.
- 2) Check fuses at back of controller unit and replace if necessary. When viewed from the rear, the left fuse is a 3/8 AMP fuse for the controller (part # PG0026) and the right fuse is a 5 AMP fuse for 115V DSP2 & DSP3 units (part # PG0625) and 2.5 AMP for 220V - DSP2 units (part # PG0690). If pot still does not function properly, contact factory for further assistance.

## **IMPORTANT SAFETY INSTRUCTIONS**

**WARNING: DO NOT OPERATE DIP STRIP POT UNTIL YOU HAVE READ THOROUGHLY, AND UNDERSTAND COMPLETELY, ALL INSTRUCTIONS, RULES, ETC. ON THIS PAGE, AND IN THE OPERATING MANUAL. WHEN USING ELECTRIC POT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE RISK OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY.**

# DSP1, DSP2 AND DSP3 STRIPPING POTS (FOR USE WITH DIP STRIP)

## GROUNDING INSTRUCTIONS

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This tool is equipped with an electric cord having an equipment-grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Do not modify the plug provided - if it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The green conductor with or without yellow stripes is the equipment-grounding conductor. If repair or replacement of the electric cord or plug is necessary, do not connect the equipment-grounding conductor to a live terminal.

Check with a qualified electrician or service personnel if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded. Repair or replace damaged or worn cord immediately.

## GENERAL INSTRUCTIONS

**BE SURE UNIT IS SECURED TO BENCH** Use key slots or mounting holes as applicable to the unit in use, and secure firmly to the work bench.

**KEEP WORK AREA CLEAN** Cluttered areas and benches invite accidents.

**DON'T USE IN DANGEROUS ENVIRONMENT** Don't use the Dip Strip Pot in damp or wet locations, or expose it to rain. Keep work area well lighted.

**WEAR PROPER APPAREL** Impermeable gloves and full aprons should be worn when using the Dip Strip Pot. Safety glasses and/or full face shields should also be worn. Nonslip footwear is recommended. Wear protective hair covering to contain long hair.

**ALWAYS USE SAFETY GLASSES** Everyday eyeglasses only have impact resistant lenses, they are NOT safety glasses.

**DON'T OVERREACH** Keep proper footing and balance at all times.

**MAINTAIN POT WITH CARE** Keep the pot clean for best performance and to reduce the risk of injury to persons. Follow instructions for cleaning and changing Dip Strip.

**DISCONNECT POT** before servicing; when cleaning or when changing Dip Strip.

**REDUCE THE RISK OF UNINTENTIONAL STARTING** Make sure switch is in off position before plugging in or in the event of a power outage.

**USE RECOMMENDED ACCESSORIES** Consult the operating manual for recommended accessories. The use of improper accessories may cause risk of injury to persons.

**CHECK DAMAGED PARTS** Before further use, the pot should be carefully checked to determine that it will operate properly and perform its intended function - check for breakage of parts, mounting, and any other conditions that may affect its operation. Parts that are damaged should be properly repaired or replaced.

**IMPORTANT: NO LIABILITY WILL BE INCURRED BY THE ERASER COMPANY FOR INJURY, DEATH, OR PROPERTY DAMAGE CAUSED BY A PRODUCT WHICH HAS BEEN SET UP, OPERATED, AND/OR INSTALLED CONTRARY TO ERASER'S WRITTEN INSTRUCTION MANUAL, OR WHICH HAS BEEN SUBJECTED TO MISUSE, NEGLIGENCE, OR ACCIDENT, OR WHICH HAS BEEN REPAIRED OR ALTERED BY ANYONE OTHER THAN ERASER, OR WHICH HAS BEEN USED IN A MANNER OR FOR A PURPOSE FOR WHICH THE PRODUCT WAS NOT DESIGNED.**

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