



Operating Manual

Please Read Before Operating Unit



Model DSP2 Stripping Pot

PLEASE CALL FOR SERVICE OR SPARE PARTS

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DIP STRIP & STRIPPING POTS

DESCRIPTION

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

Dip Strip Pots are special alloy, seamless pots designed specifically and exclusively for use with Dip Strip. DSP capacity is one (1) pound (454 g) of Dip Strip. The DSP2 has an advanced feedback temperature controller. The desired operating temperature is programmed into the unit's controller, and the programmed temperature is maintained in the pot/vessel assembly of the DSP. Two LED displays allow the user to view both the preset temperature and the actual temperature of the pot. These features provide precise control of the stripping operation for critical applications.

Dip Clean 2 metal cleaner is used to neutralize any residual Dip Strip on the wire after the stripping operation. It will also remove any oxidation caused by heat and leave the wire clean and shiny.

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

INTENDED USE: Industrial use only. Not intended for any other use or application. Dip Strip Pots are designed to be used exclusively with the Dip Strip medium and are not intended to be used with any other materials. The Dip Strip medium is designed to be used exclusively in Eraser manufactured Dip Strip Pots and is not intended to be used with any other equipment or materials.

LIMITATION OF LIABILITY: NO LIABILITY WILL BE INCURRED BY THE ERASER CO. 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.

SPECIFICATIONS

DIP STRIP:

- Melting Temperature.....500°F (260°C)
- Normal Use Temperature 700°-750°F (371°-399°C)
- Optimal Operating Temperature 730°F (388°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

DIP STRIP POTS:

- Operating Temperature Range . 100° - 800°F (38° - 427°C)
- Internal Dimensions.....3" dia. x 2-1/4" deep (76.2 x 57.1mm)
- Overall Size (Vessel Only)..... 6" high x 11" dia. (152.4 x 279.4mm)

ORDERING INFORMATION:

- AR1221 (DSP2)..... Stripping Pot with Feedback Temperature Controller, 115V, 50/60Hz
- AR1222 (DSP2)..... Stripping Pot with Feedback Temperature Controller, 230V, 50/60Hz

INCLUDED PARTS:

- IR0611 Dip Strip Removal Tool

REQUIRED PARTS:

- BR1302..... One (1) Pound (454 g) Bag of Dip Strip
- BR1301..... Two (2) Pound (907 g) Bag of Dip Strip
- BR1440..... 1 US Pint, Dip Clean 2
- BR1441..... 1 US Gallon, Dip Clean 2
- PR1403..... Neutralizer Kit (One (1) 2 US Gallon Pail with Lid & One (1) Pound Bag of Dip Strip Neutralizer)
- TR1409..... One (1) Pound (454 g) Bag of Dip Strip Neutralizer

REPLACEMENT PARTS:

- PG0625 5 AMP Fuse for AR1221 (115V)
- PG0690 2.5 AMP Fuse for AR1222 (230V)
- PG0026 3/8 AMP Fuse for Controller Portion of DSP2 Pots (Both Voltages)

DSP2 STRIPPING POT (FOR USE WITH DIP STRIP)

DSP2 STRIPPING POT (FOR USE WITH DIP STRIP)

! DANGER !

Dip Strip contains caustic soda. Do not take internally. Avoid direct contact with skin and clothing. Do not inhale dust or allow contact with eyes. If accidental contact does occur, flush freely with water and obtain medical attention. See Dip Strip Safety Data Sheet (SDS) for more information.

! WARNING: USE APPROPRIATE PPE !

Due to the caustic properties and high operating temperatures of Dip Strip, the following Personal Protective Equipment (PPE) and clothing must be worn/used at a minimum when using, handling or cleaning Dip Strip:

Eye Protection: Face shield and chemical splash goggles when handling or using Dip Strip in any form.

Hand Protection: Impervious gloves, such as heat resistant gloves or gauntlets.

Other Protective Clothing/Equipment: Long sleeve shirts, long trousers, work shoes, and aprons. Pliers or hemostats are recommended to retain wire(s) during immersion.

Respiratory Protection: NIOSH approved respirator for dusts in absence of environmental controls. In use, NIOSH approved respirator for mists and/or nitrogen oxide gases may be required.

Ventilation: Normal industrial. Mechanical exhaust with components coated with chemically impervious material. Due to fumes emitted during the wire stripping process when material is in a molten state, suitable ventilation such as a fume hood should be employed during use.

SET-UP:

WARNING:

! Prior to set up and/or operation of Dip Strip process, refer to the PPE section above, for proper clothing and equipment to be worn/used at all times during set up and/or operation of Dip Strip and DSP.

The DSP2 is shipped ready to use with a Dip Strip removal tool. Place pot/vessel assembly on a stable, heat and corrosion resistant surface. Provide adequate local ventilation in accordance with the Safety Data Sheet (SDS) for Dip Strip. Secure the DSP pot/vessel to the bench by means of the keyhole slots provided in the baseplate. Plug the unit into the appropriate power supply, either 115V (AR1221), or 230V (AR1222).

! Refer to the Safety Data Sheet for Dip Strip for proper handling and use.

Pour Dip Strip in its solid form into the DSP's pot/vessel (at room temperature), filling it to the top.

Turn the power on using the ON/OFF switch. The controller will display "self test" for a few seconds, then

the actual vessel/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.

For model AR1221 (115V), the set point temperature is preset to 730°F at the factory. For model AR1222 (230V), the set point temperature is preset to 388°C at the factory. This is the optimal operating temperature for Dip Strip and is therefore the recommended starting point for all applications. See below to change/program temperature.

NOTE: Refer to the SETUP section of the Dip Strip Operating Instructions for the recommended Dip Strip heating technique.

Increase temperature to desired setting (see below).

HOW TO CHANGE/PROGRAM TEMPERATURE

To change the preset temperature, press INDEX (I). The last inputted set point temperature will be displayed on the upper, red readout and "SP1" will be displayed on the lower, green readout.

Press the ▲ or ▼ buttons to change the temperature displayed on the upper red readout until the desired temperature is reached, and press ENTER (E).

Press INDEX to return to the main display. The new preset 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 DSP pot/vessel 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 a level at approximately 3/8" (1 cm) 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).

NOTE: The DSP2, 115V (AR1221) ships from the factory to display the temperature in degrees Fahrenheit, while the DSP2, 230V (AR1222) ships from the factory to display the temperature in degrees Celsius. See below to change/reprogram temperature units of measure.

When the DSP is turned off, the last programmed temperature set point is retained in the controller's memory.

HOW TO CHANGE/REPROGRAM TEMPERATURE UNITS OF MEASURE

The temperature units can be changed between degrees Fahrenheit and degrees Celsius on either unit by following this procedure:

1. Simultaneously press and hold the "ENTER" and "▲" buttons. The display will read:
On
Auto
2. Keep the buttons pressed for about 5 seconds until the display reads:
2
SECr
3. Change the "2" to "111" using the "▲" or "▼" buttons. Press the "ENTER" button. The display will read:
4
SECr
4. Press the "INDEX" button twice until the display reads the currently programmed units:
F (or C)
Unit
5. Press the "▲" or "▼" buttons to change between "F" and "C" and display the desired units:
C (or F)
Unit
6. Once the desired unit is displayed, press "ENTER".
7. Simultaneously press and hold the "ENTER" and "▲" buttons for about 5 seconds until the display reads:
4
SECr
8. Change the "4" to "1101" using the "▲" or "▼" buttons. Press the "ENTER" button. The display will read:
2
SECr

The set point will be converted between F and C automatically. Cycle the power off and then on to use.

CAUTION:

! NEVER INTRODUCE WATER TO THE DIP STRIP POT FOR ANY REASON DURING OPERATION !

! THE EXTERIOR OF THE DIP STRIP POT WILL BECOME EXTREMELY HOT WHEN IN OPERATION. USE EXTREME CAUTION WHEN WORKING NEAR HOT DIP STRIP POT !

SET-UP CONTINUED:

Pour approximately 8-16 ounces (1-2 cups) of Dip Clean 2 into a small, clean glass container and 16-32 ounces (2-4 cups) of water into another glass container. The amounts poured will depend on the size and volume of material to be stripped. Make sure that the level of both liquids is deep enough to fully submerge the stripped material past the point of stripping, to ensure complete rinsing/cleaning. These 2 containers will serve as the rinse and clean operations after the stripped material has been removed from the Dip Strip mixture.

OPERATION

Once all the Dip Strip is melted and the optimum operating temperature of 730°F (388°C) has been reached, the Dip Strip Pot (DSP) is ready for use. Normally the melting process will take about one hour. To strip wires using Dip Strip, refer to the Dip Strip Operating Instructions and Safety Data Sheet (SDS).

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 DSP. This ring will rarely extend more than 1" (2.5 cm) across the flat top surface of the DSP. It is recommended that the ring be periodically pried off gently and put back into the DSP when it is cool and solid, to remelt at the next use, or for disposal in accordance with the Dip Strip Neutralizer Safety Data Sheet (SDS).

The best results will be obtained by leaving the Dip Strip Pot on at a reduced setting of 250°F (121°C) when not in use. This will prevent the entrapment of moisture and reduce set up time. If the Dip Strip Pot will not be used for extended periods of time, it is recommended that the unit be turned off and covered to prevent moisture from accumulating on and reacting with the Dip Strip.

! Be sure to allow the DSP to cool sufficiently before placing a cover on it.

MAINTENANCE:

Removal of used Dip Strip from Dip Strip Pot (DSP):

To remove used Dip Strip from the Dip Strip Pot, first turn the unit off.

! VERIFY THAT THE DIP STRIP REMOVAL TOOL IS CLEAN AND COMPLETELY DRY !

! After ensuring that the Dip Strip removal tool is clean and completely dry, insert the removal tool into the Dip Strip by holding the hook shaped end of the tool and submerging the 'L' shaped end into the Dip Strip Pot. Allow the flat rectangular part of the tool to rest on the top surface of the DSP.

DSP2 STRIPPING POT (FOR USE WITH DIP STRIP)

Allow the Dip Strip to cool and solidify around the removal tool. After the Dip Strip has cooled to a solid state, turn the DSP on to 730°F (388°C).

Check after approximately 20 minutes, and thereafter at 5 minute intervals. When the solid block of Dip Strip has just begun to melt around the inside edges of the DSP vessel, grasp the hook end of 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 5 minutes and try again.

Once loose, use the hook end of the removal tool as a handle to remove the entire block of Dip Strip from the DSP and place it on a rack to cool at room temperature for a minimum of 30 minutes.

Turn off DSP.

To Neutralize Dip Strip:

! Refer to the Operating Instructions for Dip Strip Neutralizer for the proper neutralizing procedure.

To Dispose of Dip Strip:

! Refer to the SDS for Dip Strip Neutralizer for the proper disposal procedure.

Cleaning of Dip Strip Pot (DSP) to prepare for new Dip Strip:

To clean the Dip Strip Pot after Dip Strip has been removed, first **MAKE SURE THAT THE INSIDE OF THE VESSEL IS COOL TO THE TOUCH.**

Only the pot/vessel assembly of the DSP may be cleaned by rinsing it out under running water. **DO NOT SUBMERGE THE DSP UNDER WATER.**

DO NOT ALLOW THE CONTROLLER TO BECOME WET. DRY THE DSP THOROUGHLY (INSIDE AND OUT)

before using again.

To re-use, **VERIFY THAT NO MOISTURE IS PRESENT** and refer to the SET-UP section above.

TROUBLESHOOTING:

PROBLEM: DSP does not heat

SOLUTIONS:

- 1) Check the set point temperature and reset if necessary (see SET-UP section above).
- 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 (same fuse for both models/voltages) and the right fuse is a 5 AMP fuse for 115V DSP2; OR 2.5 AMP for 230V DSP2 units. See Replacement Parts above for ordering information.

- 3) If DSP 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 DIP STRIP POT, BASIC SAFETY PRECAUTIONS SHOULD ALWAYS BE FOLLOWED TO REDUCE RISK OF FIRE, ELECTRIC SHOCK, AND PERSONAL INJURY.

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. Replace damaged or worn cord immediately.

GENERAL SAFETY INSTRUCTIONS

WEAR PROPER APPAREL Refer to PPE section above for appropriate clothing and equipment to be worn/used at all times.

ONLY ALLOW TRAINED AND QUALIFIED PERSONNEL TO OPERATE UNIT. Always keep these and all related instructions & SDS documents within reach of the machine.

BE SURE UNIT IS SECURED TO BENCH Use the keyhole slots provided on the pot's/vessel's baseplate to fasten the DSP pot/vessel firmly to the work bench.

KEEP WORK AREA CLEAN Cluttered areas and benches invite accidents.

DO NOT USE IN DANGEROUS ENVIRONMENTS Don't

DSP2 STRIPPING POT (FOR USE WITH DIP STRIP)

use the Dip Strip Pot in damp, wet or outdoor locations, or expose it to rain. Keep work area well lit.

DO NOT 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 DSP before servicing, cleaning or changing Dip Strip.

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

USE RECOMMENDED ACCESSORIES See Ordering Information section above for recommended accessories. The use of improper accessories may cause risk of injury to persons and will void Eraser's warranty.

CHECK DAMAGED PARTS Before further use, the DSP 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 replaced.

ALL REPAIRS SHOULD BE PERFORMED BY AN ERASER COMPANY REPRESENTATIVE ONLY. Unauthorized disassembly of machines will void Eraser's warranty.

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