

# ART-5450 3.5 AMP DC POWER SUPPLY

## INSTRUCTION MANUAL



### FEATURES:

1. **CONSTANT VOLTAGE** for PULSE WIDTH CONTROL (P.W.C.) that allows optimum operation of motor(s) and lighting/smoke accessories regardless of track voltage when used with the ART-5401 Controller.

2. **AUTOMATIC ELECTRIC MOMENTUM CIRCUIT** for smooth operation with P.W.C. feature. Prototype (/full-size) railroad trains increase operating speed gradually and stop/start smoothly. To simulate this in your model train, the P.W.C. feature changes speed gradually depending upon the setting of control dial on ART-5401 Controller.

3. **AUTOMATIC CIRCUIT PROTECTION**...even if tracks are short-circuited or power supply overloaded, the components of the ART-5450 are protected by circuit breaker and the ART-5450 will not be damaged. Also includes protection for ART-5401 Controller when properly connected to ART-5450.

4. **LOADING CURRENT METER** display for Power On with green light and 3.5 AMP Power Output Display by AMP Load with Green-Light Level Indicator for Normal-load and Red-Light Level Indicator for Power Overload.

5. ART-5450 POWER SUPPLY INPUT: AC 120V 60Hz  
OUTPUT: DC 16V 3.5VA

### INSTALLATION and OPERATION:

6. Connect track power leads to the two Terminals on the back panel of ART-5401 Controller by depressing the thumb tab at the

bottom of terminal and inserting the track wire into the hole. Put one wire into each of the Terminals, making sure exposed wire strands DO NOT TOUCH OPPOSITE TERMINALS or OTHER TRACK WIRE.

7. Connect DC POWER SUPPLY wire leads from ART-5401 CONTROLLER to the proper polarity terminal on front panel of ART-5450 POWER SUPPLY. Screw connections tight to prevent any dis-connect. Red wire - red terminal and black wire - black terminal.

8. CAUTION..... DO NOT try to force track power wire leads into the Terminals on back panel of ART-5401 Controller, depress tab and use wire only with insulation removed.

9. CAUTION..... NEVER connect track power wire leads directly to ART-5450 POWER SUPPLY. Connect track power wire leads from track to proper terminals on ART-5401 CONTROLLER, then connect ART-5401 CONTROLLER to ART-5450 POWER SUPPLY using permanent wire leads from ART-5401 CONTROLLER.

10. Then, plug the ART-5450 POWER SUPPLY into any standard 120V outlet. Green power indicator light will illuminate on front panel of ART-5450 POWER SUPPLY indicating that power is available to train/track layout.

11. Operation of train layout is by rotating the speed dial on ART-5401 CONTROLLER to start train. To change direction of train, simply move directional switch on ART-5401 CONTROLLER to indicate the direction required - forward/reverse.

**CAUTION-ELECTRICALLY OPERATED PRODUCT:**

12. Not recommended for children under 8 years of age.
13. Precaution should be observed during handling/operation and use to prevent electric shock.
14. ALWAYS DISCONNECT ART-5450 POWER SUPPLY from 120V power outlet BEFORE attempting to connect/disconnect any wires on ART-5450 and/or the ART-5401 CONTROLLER.
15. DO NOT UNDER ANY CIRCUMSTANCES attach any another model railroad transformer to ART-5450 POWER SUPPLY. Only use the ART-5401 CONTROLLER with the ART-5450 POWER SUPPLY.
16. DO NOT CONFUSE any other ARISTO-CRAFT TRAINS Power Supply with the ART-5401 CONTROLLER.
17. Do not attach more than ONE ART-5450 POWER SUPPLY to an ART-5401 CONTROLLER. If you operate more than one ART-5450, each ART-5450 POWER SUPPLY requires a separate ART-5451 CONTROLLER.

**TROUBLESHOOTING:**

18. If Green Power Level Indicator on ART-5450 POWER SUPPLY does not light, check to see that 120V plug is properly secure in outlet.
19. Green Power ON Light is illuminated but train does not move...check to see if connections are secure between ART-5450 POWER SUPPLY and ART-5401 CONTROLLER and to track connection.
20. If Red Overload Light is illuminated...check all wire connections especially polarity at ART-5450 POWER SUPPLY terminals...check for metal object on track...check to see that all metal wheels are seated properly on rail(s)...check to insure you are not attempting to operate more locomotives or operating accessories smoke/lights/sound unit than 3.5 AMP ART-5450 POWER SUPPLY can accommodate.

**INDOOR/OUTDOOR OPERATION:**

21. ART-5450 POWER SUPPLY is not waterproof and must be protected from moisture.
22. ART-5401 CONTROLLER can be used outdoors in the elements to operate your model railroad.

NOTE: The ART-5401 CONTROLLER is sold separately, see your ARISTO-CRAFT TRAINS Retailer, and is NOT presently a component part of the ART-5450 -POWER SUPPLY. However, to properly operate the ART-5450 - additional purchase of the ART-5401 CONTROLLER is required. We regret any inconvenience this may cause. Future packaging of ART-5450 will include the ART-5401 CONTROLLER as a component part and List Price will be adjusted upward accordingly to reflect this packaging improvement.

**LIMITED WARRANTY:**

Your new ARISTO-CRAFT TRAINS product is warranted for 180 days from DATE OF PURCHASE against defects in workmanship and materials. Proof of purchase may be required by ARISTO-CRAFT TRAINS.

This warranty is VOID and does not apply to any product and/or parts and components which have been improperly installed by purchaser/owner, abused or damaged in any way through improper operation, modified, or repaired by unauthorized service centers and/or non-factory authorized technicians.

**SERVICING:**

23. Should your ARISTO-CRAFT TRAINS product require warranty service, be sure to take the following steps to insure proper servicing:

23-1. Return product in original box. If not possible to use original box, pack product carefully in corrugated cardboard box, FULLY INSURED and PREPAID. ARISTO-CRAFT TRAINS will not be responsible for any damage or loss incurred during shipping.

23-2. Include a brief but thorough explanation of the problem(s) and service that may be required.

23-3. Be sure to include your name, street address, city, state (or province), country (if outside USA) , and postal zipcode along with a daytime phone number including Area Code, so that you may be contacted if it becomes necessary. All identification MUST be both - INSIDE package, contained in letter and - OUTSIDE package, on shipping container.

23-4. Include proper payment for shipping/handling -

**Call for current prices**

-with check Money Order payable in US Dollars \$ to: Polk's Hobbies. Please DO NOT SEND CASH. If your item is out of warranty, you will be contacted with the proper amount of repair costs before repairs are started.

\*\*\*C.O.D. shipping NOT included, additional cost,\*\*\*

23-5. Ship your item(s) to:

ARISTO-CRAFT TRAINS	PHONE: 973-351-9800
698 SOUTH 21ST STREET	FAX: 973-351-9700
IRVINGTON, NJ 07111	EMAIL: aristo@mindspring.com
	www.aristocraft.com