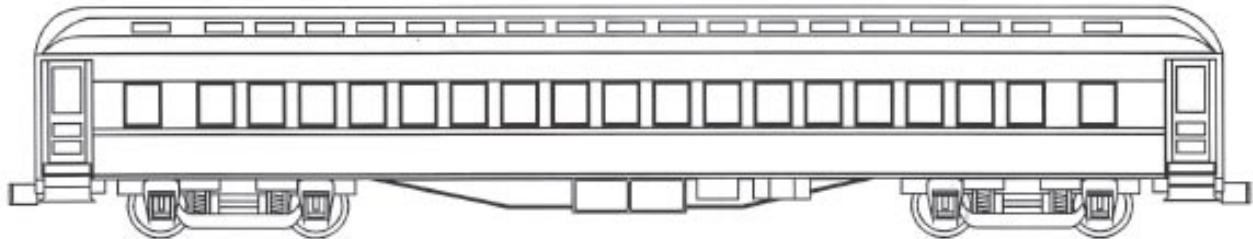


# STANDARD HEAVYWEIGHT PULLMAN PASSENGER CAR

INSTRUCTION MANUAL

ART-31800 - 01



Dear Model Railroader,

This product is a highly detailed #1 GAUGE, 1/29<sup>th</sup> Scale model railroad STANDARD HEAVYWEIGHT PULLMAN CAR. Suitable for both indoor and outdoor operation, it realistically replicates a North American prototype Pullman car.

Should you have any questions regarding operation, proper usage or maintenance required for this or any other ARISTO-CRAFT TRAINS products, please contact us at the following address:

**ARISTO-CRAFT TRAINS / Polk s Modelcraft Hobbies, Inc.**

698 South 21st Street  
Irvington, NJ 07111 USA

Tel: (973) 351-9800 Fax: (973) 351-9700  
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Our customer service department phones are open from 10:00 AM to 5:00 PM Eastern time, Monday through Friday.

Visit our web site: [www.aristocraft.com](http://www.aristocraft.com)

## FEATURES:

- Operating AAR-design knuckle couplers.
- Detailed passenger car trucks with Metal Wheels.
- Moveable Vestibule Doors.
- Solid-State electrical circuit.
- Removable Roof.
- Operating interior lights.
- Fully detailed interior
- Realistic painting and authentic detailing.
- Full Underframe, including Air Brake System components.
- Clear Plastic Windows with Trim.

**NOTE: Heavyweights are available with 4 or 6 wheel trucks depending on production run, prototype, and road name of particular Heavyweight**

## OPERATION

For proper operation, it is recommended that curved track with a minimum diameter of 8 be used. Smaller diameter curves may cause derailments and side clearance problems.

## TRUCK BEARINGS

The truck sideframes are molded of a thermal plastic which reproduces all details and, for durability, a special bearing has been permanently inserted in each journal box end.

These bearings are designed to operate properly WITHOUT lubrication. However, you MAY lubricate, if desired, using either a dry lubricant of powdered graphite or an oil-based paste lubricant/ART-29602 but ONLY in very small amounts. It is not necessary to disassemble passenger railcar trucks to properly lubricate. Turn car upside down and apply lubricant to axle ends at truck sideframe.

### TRUCK SPRINGS

The trucks/wheelsets on this model are designed exactly like the trucks used on prototype railroads, and use springs for equalization to act as a shock absorber and cushion the ride.

### WHEELS

The HEAVYWEIGHT PASSENGER CAR BLACK Metal Wheels are designed for constant electrical power pickup through an electrical connection onto each METAL Wheel axle end through the Truck Sideframe. Over a period of time, these wheels may require cleaning. Dirty wheels will cause sporadic electrical pickup and possibly electrical flashover which may cause discoloring on affected surfaces of wheel and/or brass track. A good indication of dirty wheels is flickering lights (or non-functioning sound unit on locomotives).

To clean properly, remove the car from any electrical contact and turn upside down exposing METAL wheels. Using ART-29601 SMOKE FLUID/TRACK CLEANER is recommended for application to METAL wheel surface with clean/soft fabric (rag). DO NOT USE ABRASIVE because resulting metallic particles may enter Locomotive electric motor/gearing and cause operational problems.

### ELECTRICAL PICKUP

Each axle makes contact with a brass bushing inserted into truck/wheelset sideframe. Continuous electrical pickup is possible over switch tracks and irregular trackage. A brass collar attaches to the bushing and transmits electrical current from the wheels to the Solid State Circuit Board underneath the floor that allows electrical features to function.

### COUPLERS

Loop-style couplers are enclosed as a spare accessory. The operating knuckle couplers on all ARISTO-CRAFT TRAINS freight cars are designed based upon the AAR style knuckle used on all major North American Railroads.

NOTE: These knuckle couplers may not operate automatically when attempting to couple ARISTO-CRAFT TRAINS products to knuckle couplers used by other model railroad manufacturers. Couplers may have to be joined by

manually coupling the knuckle on each car in a closed position by lifting one end coupler and inserting the closed knuckle onto the ARISTO-CRAFT TRAINS knuckle coupler. This type coupler works equally well from either end of the freight car and can be uncoupled automatically by using an LGB\* designed uncoupling device. The couplers may also be operated manually by pressing upward on the small tab below each coupler assembly. Should you prefer to use the loop-style coupler, this conversion can be made easily and quickly by unscrewing the single screw that holds the AAR coupler to the truck arm and attaching the loop-style coupler using the same screw. Both style couplers are attached to truck arm at a swivel base. When operating railcar, this enables coupler(s) to articulate when encountering sharp radius curves or switches. Couplers will center automatically while car is in motion. Manual centering is accomplished by exerting light pressure on knuckle/loop; articulated joint and returning knuckle/loop to center.

*\*LGB is a trademark of the E.P. Lehmann Company, Germany.*

### INTERIOR LIGHTING

The detailed interior is illuminated. Lighting is controlled by an On-Off slide switch under the car near the center.

### ROOF

To remove roof, loosen and remove Phillips head screws located above each step assembly and vestibule side door - two screws at each end. Access is through the holes in the underframe near each end.

Then lift roof section off body.

When replacing roof, align screw holes properly on body ends.

Press down on roof until it snaps into place, then reinsert the screws.

**NOTE:** Roof is not position-changeable - certain interior partitions must align with roof for proper fit. The REAR is the section with the lavatory (if used) and matches with ventilator stack on roof.

The roof must fit properly against the body.

**Refer to Exploded Parts Diagram/Parts List for part descriptions, part numbers, and prices. Do not use part descriptions, part numbers, and prices listed in the Instruction Manual**

## LIMITED WARRANTY

All ARISTO-CRAFT TRAINS products are under warranty for five (5) years from the date of purchase against defects in workmanship and/or 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 the purchaser/owner, abused or damaged in any way through improper operation such as but not limited to derailment, repairs or modifications performed by non-authorized service centers or technicians.

## SERVICING

Should your ARISTO-CRAFT TRAINS product require warranty service, please return it in the original box, if possible, protected by a proper shipping carton. Send the product fully insured and prepaid. ARISTO-CRAFT TRAINS will not be responsible for any loss or damage incurred during shipping. Be sure to include a brief, but thorough explanation of the problem, together with your name, street address (no Post Office box please), city state or province and country, if outside of the United States. Also include a daytime telephone number so that we may contact you if necessary. Your return address should be clearly marked on the outside of the shipping carton.

Payment for shipping and handling, in U.S. funds, ~~is \$20.00 and~~ should be included. Your check or money order should be made payable to: Polk s Modelcraft Hobbies, Inc. Do not send cash. If your item is not covered by warranty service, you will be contacted and a repair estimate given before any work commences. Warranty covers manufacturer defects, not normal wear and tear.

The shipping address to be used for returns is as follows:

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Irvington, NJ 07111 USA  
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PHONE: 973-351-9800  
FAX: 973-351-9700  
EMAIL: aristo@mindspring.com  
www.aristocraft.com

**CALL FOR CURRENT  
SHIPPING COSTS**

Written confirmation of receipt of returned items will be sent with estimated repair time by the ARISTO-CRAFT TRAINS Customer Service Department.