

STREAMLINE PASSENGER CAR

This STREAMLINE PASSENGER CAR Series is based upon the STREAMLINE Passengers Cars built by The Edward G. Budd Company/THE BUDD COMPANY of Pennsylvania, USA starting about 1937. Actual prototype examples of this type Passenger Car, although upgraded, are still used daily in passenger train service (1995) by AMTRAK and VIA RAIL CANADA.

A original BUDD-built STREAMLINE Passenger Car is on exhibit at the Railroad Museum of Pennsylvania in Strasburg, PA/USA. Other STREAMLINE Passenger Cars may be found on tourist railroads, in museums, or operated as 'dinner-trains' in many areas of North America.

DETAILS:

Made from extruded Aluminum.

Operating AAR-design knuckle couplers.

Detailed passenger car trucks/wheelsets with individual springs and Metal Wheels.

Operating interior lights (and Rear-end Markers on OBSERVATION CAR).

*METAL Grab Railings and End Railings.

METAL Underframe/floor with moveable truck bolster.

Plastic Window Strip with green-tint Trim.

* Many versions blackened or painted Grab Railings and End Railings

FEATURES

OPERATION:

***The STREAMLINE Passenger Car (COACH - DINER - OBSERVATION - DOME) is available ONLY in 4-Wheel Truck (ART-29117) version regardless of railroad name or car style.

1. Operation on the small radius less than 5 foot diameter curve track is not recommended. In addition, caution should be taken regarding switch-tracks and side clearance during operation on any radius curve track. For better model railroad operation, it is suggested that, at least, the 8 foot diameter (medium radius) curve track be utilized. Another option would be to use the ART-11800/ART-30120 extra-large (10 foot Diameter) or the ART 11820/ART30125 extra-extra large (20 foot Diameter) curve track that allows realistic and improved operation for maximum enjoyment of all ARISTO-CRAFT TRAINS STREAMLINE Passenger Cars.

TRUCK BEARINGS:

2. 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 dis-assemble passenger railcar trucks to properly lubricate. Turn passenger railcar upside down and apply lubricant to axle ends at truck sideframe.

TRUCK SPRINGS:

3. The trucks/wheelsets (ART-29117) 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:

4. The STREAMLINE PASSENGER CAR Metal Wheels are designed for constant electrical power pickup through an electrical connection onto each METAL Wheel axle end through the Truck Sideframe. Specially plated to insure good electrical conductivity, corrosion resistance, and extended wear, the METAL wheels will give normal service during usage of any STREAMLINE PASSENGER CAR.

4A. However, over a period of time, these wheels may require cleaning. Dirty wheels will cause sporadic electrical pickup and possible electrical flashover which may cause discoloring on affected surfaces of wheel and/or brass track.

4B. A good indication of dirty wheels is flickering lights or (non-functioning sound unit). To clean properly, remove STREAMLINE PASSENGER 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:

5. 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 each car's electrical features.

5A. If dis-assembly of 4-wheel truck is attempted, first unscrew the truck/wheelset from underbody. DO NOT DAMAGE OR LOOSEN wires attached to underbody through the brass collar.

5B. **NOTE:** STREAMLINE PASSENGER CAR is ONLY equipped with 4-wheel trucks (ART-29117), regardless of railroad name. These trucks ARE AVAILABLE as replacements - see Parts Listing Section. DO NOT CONFUSE with the HEAVYWEIGHT PASSENGER CAR TRUCKS ART-29109/4-Wheel or ART-29110/6-wheel

COUPLERS:

6. Loop-style couplers (ART-29200-69) are enclosed as a spare accessory. The operating knuckle couplers (ART-29200) on all ARISTO-CRAFT TRAINS passenger railcars are designed based upon the AAR-style knuckle coupler used on all major North American Railroads.

6A. **NOTE:** However, these knuckle couplers may not operate automatically on curves or when attempting to couple ARISTO-CRAFT TRAINS products to knuckle couplers used by other model railroad manufacturers. Knuckle couplers may have to be manually closed on each car and then lifting one end knuckle coupler and inserting the closed non-ARISTO-CRAFT TRAINS knuckle coupler onto the closed ARISTO-CRAFT TRAINS knuckle coupler.

6B. This type knuckler coupler works equally well from either end of the passenger railcar and can be uncoupled automatically by using an LGB* designed uncoupling device. The knuckle couplers may also be operated manually by pressing upward on the small tab below each knuckle coupler assembly. The knuckle coupler can be pushed away to any side if you wish the railcar not to couple automatically when the railcars come together. However, DO NOT attempt to operate in train without the knuckle couplers properly aligned and fully coupled to opposite railcar/locomotive. Otherwise, railcar(s) may derail on curves or switch tracks.

6C. 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-style knuckle 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 small radius curves or switches (see section OPERATIONS for suggested curve radius).

6D. All ARISTO-CRAFT TRAINS knuckle couplers will center automatically while railcar is in motion. Manual centering is accomplished by exerting light pressure on knuckle/Loop coupler at articulated joint and returning knuckle/Loop coupler to center.

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

INTERIOR LIGHTING:

7. The non-detailed interior is illuminated by decorative ceiling lamp fixtures which utilize soldered-base incandescent 14v light bulbs, ART-29502 (wired in parallel), that may require replacement after extended usage. To replace, disconnect STREAMLINE PASSENGER railcar from electrical supply, remove ENDS (see section END REMOVAL), and unsolder bulb. **CAUTION:** Check first to ascertain that inoperative bulb has not become loose.

7A. Interior lighting is controlled by track power pickup.

NOTE: See section PULSE WIDTH CONTROL for power supply requirements.

ENDS:

8. To remove END, loosen and remove Phillips Head screws located underneath each END. Two screws per railcar end. Attach through holes in UNDERFRAME near each END.

8A. Then slide END section off body.

8B. When replacing END, align screw holes properly on body underframe, then reinsert screws at end.

8C. **NOTE:** END is NOT 'position-changeable' – certain exterior body cutouts must align with END for proper fit.

8D. The ENDS must fit properly against the body.

SERVICE NOTES:

9. All parts contained in the STREAMLINE PASSENGER CAR are available for replacement or repair by contacting ARISTO-CRAFT TRAINS. If you have any questions, please refer to INTRODUCTION for method of contacting our office.

PULSE WIDTH CONTROL:

10. All ARISTO-CRAFT TRAINS locomotives, tenders, railcars with operating features, and electrical accessories are designed to operate at proper capacity ONLY with ARISTO-CRAFT TRAINS Power Supply Units featuring "Pulse Width Control" (P.W.C.).

10A. P.W.C. allows a continuous voltage to flow to the operating accessories such as interior lighting during operation REGARDLESS of the speed OR direction of passenger railcar.

10B. **DO NOT CONFUSE PULSE WIDTH CONTROL with Pulse Power**, a feature provided by some other (non-ARISTO-CRAFT TRAINS) power packs. It may seem that when operating with Pulse Power, the features on ARISTO-CRAFT TRAINS products are operating properly, but, in fact they ARE NOT. Sufficient voltage may not be available to activate the unit(s) and underload/overload damage to components may result.

10C. Also, the TRAIN POWER PACK 7000 – 3.5 AMP FOR G AND HO previously manufactured (in 1988/1989) by Polk's Modelcraft Hobbies under the *Aristocraft* Tradename DOES NOT HAVE P.W.C. To properly operate your #1 Gauge ARISTO-CRAFT TRAINS with P.W.C., use ARISTO-CRAFT TRAINS ART-5400 (1.8 AMP) or ART-5450 (3.5 AMP) Power Supply Units.

10D. If it is not possible to operate your #1 Gauge 1/29 Scale ARISTO-CRAFT TRAINS product with our P.W.C. equipped Power Supply, do not worry. Our Electrical Engineers have developed the ART-5401 CONTROL PACK ADAPTOR which can be easily attached to your present power supply, UP TO 5 AMPS, of another manufacturer and allow PULSE WIDTH CONTROL to be applied to your Indoor/Outdoor model railroad. The ART-5401 CONTROL PACK ADAPTOR is available separately from your dealer.

10E. **NOTE:** The P.W.C. feature of the ARISTO-CRAFT TRAINS Power Supply is not compatible with LIONEL LARGE SCALE* Locomotives equipped with 'Rail-Sounds'*. However, these locomotives may be operated with the sound unit turned OFF.

ASSEMBLY INSTRUCTIONS:

11. No assembly required, STREAMLINE PASSENGER CAR is ready-to-run.

LIMITED WARRANTY

12. All ARISTO-CRAFT TRAINS products are under warranty for 180 days from DATE OF PURCHASE against defects in workmanship and/or materials. Proof of purchase *may be required* by ARISTO-CRAFT TRAINS.

12A. 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 such as train derailment, modified, or repaired by unauthorized service centers and/or non-factory authorized technicians.

SERVICING:

13. Should your ARISTO-CRAFT TRAINS model railroad product require warranty service, be sure to take the following steps to assure proper servicing:

13A. Return product in ORIGINAL BOX, then pack this ORIGINAL BOX in proper shipping carton. If not possible to use original box, pack product carefully in cardboard box, FULLY INSURED and PREPAID. ARISTO-CRAFT TRAINS will not be responsible for any damage or loss incurred during shipping.

13B. Include a brief but thorough explanation of the problem(s) and the servicing that may be required.

13C. Be sure to include your NAME, STREET ADDRESS (no Post Office Box please), CITY, STATE (or PROVINCE), COUNTRY (if outside U.S.A.), and Postal ZIPCODE along with daytime phone number. All identification should be both – INSIDE package, contained in letter, and – OUTSIDE cardboard box.

13D. Include proper payment for shipping/handling –

Locomotive or Complete Train Set	\$20.00 US
CALL FOR CURRENT SHIPPING COSTS	
Accessories, switch-track, individual #1-#4 Passenger railcars, or tender	\$10.00 US

– with your (USA Bank Account only) 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 amount of repair costs before repairs are started.

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

13E. Ship your item(s) to:

ARISTO-CRAFT TRAINS 698 SOUTH 21ST STREET IRVINGTON, NJ 07111	PHONE: 973-351-9800 FAX: 973-351-9700 EMAIL: aristo@mindspring.com www.aristocraft.com
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13F. Immediate written confirmation of receipt of returned item(s) will be sent along with estimated repair time by ARISTO-CRAFT TRAINS Customer Service/Repair Department.

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