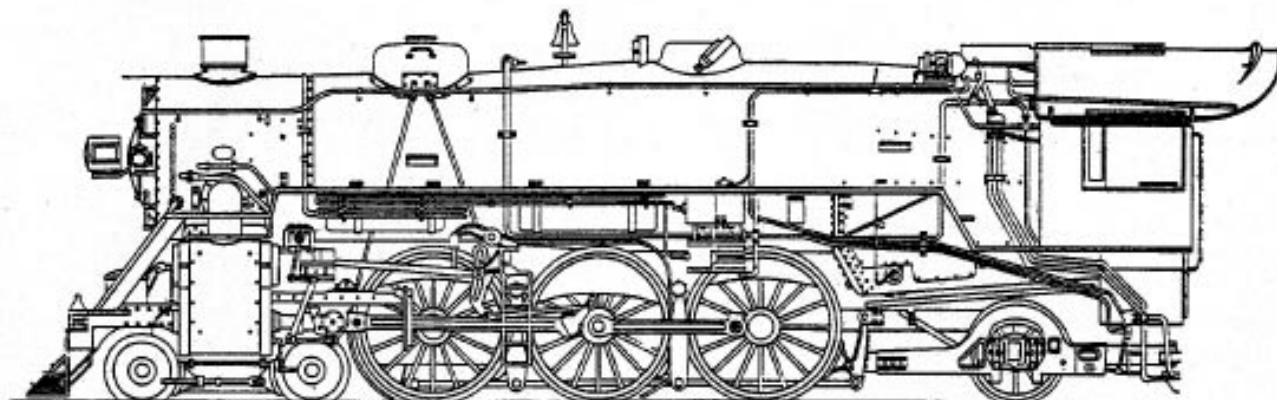


#1
Gauge SCALE
1:29

PACIFIC 4-6-2 STEAM LOCOMOTIVE

INSTRUCTION MANUAL

ART 21400-01



For Earlier Model Pacific's Made Before 2003

ARISTO-CRAFT TRAINS

REV. 080194

INTRODUCTION

Dear Model Railroader:

This PACIFIC 4-6-2 Steam Locomotive is, without a doubt, the most highly detailed #1 Gauge 1/29th Scale PACIFIC TYPE Steam locomotive available. Suitable for both INDOOR and OUTDOOR operation, it accurately portrays a North American prototype Steam Locomotive, based upon our research and on documented Official Blueprints referenced to standard Association of American Railroads (AAR) recommended practice.

Should you have any questions about operation, proper usage, or maintenance required on this LOCOMOTIVE or any other ARISTO-CRAFT-TRAINS Model railroad product, please contact us at the following address:

Aristo-Craft Trains Phone: 973-351-9800
698 South 21st St Fax: 973-351-9700
Irvington, NJ 07111 email: aristo@mindspring.com

Our phone lines are open from 10:00 AM to 5:00 PM (EASTERN STANDARD TIME) Monday through Friday

The following instructions are intended to help you understand and operate all the features built into this PACIFIC 4-6-2 Steam Locomotive.

Please note, due to packaging requirements, the ART-21400 Series PACIFIC with ART-21800 Series LONG TENDER ... while sold as a 21400 Series 2-piece SET ... are boxed separately.

Good Railroading!!!!

HISTORY

This ARISTO-CRAFT-TRAINS model railroad PACIFIC 4-6-2 Steam Locomotive is an accurate representation of Pacific-type Steam Locomotives built by the Baldwin Locomotive Works (Philadelphia, PA) in 1927 as the B&O/Baltimore & Ohio Railroad's 'President' Class Pacific 4-6-2 Steam Locomotives.

An example of this PACIFIC 4-6-2 Steam Locomotive is on display at the B&O Railroad Museum in Baltimore, MD USA. Also, a former Gulf, Mobile & Northern (Light) PACIFIC 4-6-2 #425, is operated on the Blue Mountain & Reading RR, a small freight/tourist-passenger shortline railroad in South Hamburg, PA (near Reading, PA) USA.



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erly, remove PACIFIC 4-6-2 Steam Locomotive 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 electric motor/gearing and cause operational problems.

DRIVE TRAIN:

2. The PACIFIC 4-6-2 Steam Locomotive is equipped with a unique drive mechanism that allows greater tractive effort (pulling power) and smoother operation during usage. Each axle/pair of driving wheels is articulated and independent from the other axle in the gearbox. Each drive axle can move vertically/horizontally without affecting operation of the other axle. This allows for better electrical contact on switches and especially on uneven track.

NOTE: PACIFIC 4-6-2 Steam Locomotive drive wheels DO NOT use rubber adhesion rings to increase traction but have sufficient weight incorporated into unit for proper "pulling power".

2A. Each gearbox has been lubricated at the factory with a high-tech lubricant (ART-29602 CONDUCTIVE LUBRICANT) which, under normal operating conditions, should last indefinitely, thus eliminating the need for daily gearbox maintenance. However, you MAY lubricate regularly, if desired, using a high-temperature/non-water soluble paste, liquid lubricant, or ART-29602 CONDUCTIVE LUBRICANT but ONLY in proper amounts.

2B. It is necessary to partially dis-assemble gearbox to allow access to gearing and shafts for lubrication. Turn locomotive upside down and remove 10 screws on gearbox coverplate. Grasp coverplate firmly and lift up to complete removal. Lubricate as required.

FEATURES:

Operating Directional Control Front HEADLIGHT
Operating MARKER/CLASSIFICATION LIGHTS
Operating KNUCKLE COUPLER – (on LONG TENDER Rear)
Mounting Bracket for KNUCKLE COUPLER – (on FRONT Truck)
Fully Sprung Trucks with BLACK Metal Wheels
BLACK METAL DRIVE WHEELS w/full 10-wheel electrical pickup.
Solid BRASS Grab Railings
Full Boiler and Cab Interior Detail
Realistic Lighted 'Firebox Red-Glow'
Prototypical Painting and Lettering.
Electronic 'Steam Sounds' WITH BELL (use ART-21800 Series LONG TENDER)
Operating SMOKE UNIT with Smokestack.
Large Capacity Smoke Fluid Reservoir (use ART-29601 SMOKE FLUID).
POSITION-CHANGEABLE MOUNTING FOR BELL, WHISTLE, HEADLIGHT, BOILER FRONT NUMBERPLATE, AND FEEDWATER as required.

WHEELS:

1. The steam locomotive METAL wheels are designed for constant electrical power pickup through an electrical connection at each METAL Wheel. Specially BLACK-plated to insure good electrical conductivity, corrosion resistance, and extended wear, the METAL wheels will give normal service during usage of the PACIFIC 4-6-2 Steam Locomotive.

1A. However, 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 smoke unit/lights. To clean prop-

2C. Although each gearbox, ART-21400-05, is a complete unit, it may be disassembled and all parts contained therein are repairable or available as a replacement. **NOTE:** Allow only factory-authorized ARISTO-CRAFT TRAINS repair technician to perform ANY REPAIRS, otherwise – WARRANTY MAY BE VOIDED.

TRUCK BEARINGS

3. The truck/wheel set sideframes are molded of a thermal plastic which reproduces all details and, for durability, a special BRASS bushing has been inserted into each journal box end. These BRASS bushings are designed to operate properly WITHOUT additional lubrication.

3A. However, you MAY lubricate, if desired, using either dry lubricant of powdered graphite or an oil-based and electrically conductive liquid lubricant (ART-29602 LUBRICANT-PASTE).

3B. It is not necessary to dis-assemble the PACIFIC 4-6-2 truck/wheel sets to properly lubricate. Turn LOCOMOTIVE upside down and apply lubrication to axle ends at truck/wheel set sideframes.

3C. Lubrication (ART-29602) may also be used on metal DRIVE WHEELS and Valve Gear/Side Rod Linkage.

KNUCKLE COUPLER:

4. Loop-style coupler may be used as a spare accessory with modification to PACIFIC 4-6-2 PILOT Assembly by customer. The operating knuckle coupler (not included w/PACIFIC 4-6-2 STEAM LOCOMOTIVE), ART-29200, on all ARISTO-CRAFT TRAINS is based upon the AAR style knuckle used on all major North American Railroads.

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4A. **NOTE:** However, the knuckle coupler MAY NOT operate automatically when attempting to couple ARISTO-CRAFT TRAINS products to certain knuckle couplers used by other model railroad manufacturers. Couplers may have to be joined by manually coupling the knuckle on each railcar end in a closed position by lifting one end coupler and inserting the closed knuckle onto the ARISTO-CRAFT TRAINS knuckle coupler.

4B. This knuckle coupler can be uncoupled automatically by using an LGB* designed uncoupling device. The coupler may also be operated manually by pressing upward on the small tab below each coupler assembly. The coupler can be pushed away to any side if you wish the Locomotive w/Tender not to couple automatically when railcars come together. However, DO NOT attempt to operate in train without the couplers properly aligned and fully coupled to opposite railcar. Otherwise, railcars may derail on curves or switch tracks. Should you prefer to use the Loop-style coupler on LONG TENDER, this conversion can be made easily and quickly by unscrewing the single screw that holds the AAR knuckle coupler to the LONG TENDER 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 PACIFIC 4-6-2 Steam Locomotive w/Tender, this enables coupler(s) to articulate when encountering curves or switches.

4C. **NOTE:** Operation of PACIFIC 4-6-2 Steam Locomotive w/ LONG TENDER on CURVE TRACK of 4 ft. diameter (ART-11100/ART-30100) or certain Switchtracks (ART-11200 series) is NOT RECOMMENDED.

4D. Knuckle couplers will center automatically while Locomotive w/ Tender is in motion. Manual centering is accomplished by exerting light outward pressure on knuckle/Loop at articulated joint and returning to center.

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

SMOKE GENERATOR UNIT:

7. The pacific 4-6-2 Steam Locomotive is equipped with an Operating Smoke Generator Unit, ART-29307, located in the Smokebox below the Smokestack, which produces smoke through the use of ART-29601 SMOKE FLUID.

7A. Control for operating is the slide switch located on front underframe pilot platform. Push/slide-in has unit ON. Smoke will emit from SMOKE-STACK.

7B. To operate properly, fill the front reservoir unit with ART-29601 SMOKE FLUID, about twenty-five (25) drops are sufficient.

7C. **NOTE:** If operating with non-ARISTO-CRAFT TRAINS Power Supply, at lower voltage/throttle setting the Operating Smoke Unit may not 'smoke' properly. This is not a defect ... but a result of not enough voltage. Smoke Unit should operate with more smoke when throttle setting increased. See section 9. with P.W.C. information.

7D. To fill/refill with ART-29601 SMOKE FLUID/TRACK CLEANER, use reservoir box mounted on front underframe pilot platform directly behind the ON/OFF slide switch. Push upward on lid of box-like reservoir. DO NOT FILL SMOKESTACK WITH FLUID. You may clog filter element in Smokestack. If clogged or dirty, remove Smokestack top, take out circular screen element and air dry after cleaning, then replace where previously located. DO NOT OPERATE SMOKE GENERATOR UNIT WITHOUT SMOKE FLUID (ART-29601 recommended). Damage to unit may result.

7E. By exercising proper care during operation, the smoke generator unit will provide long service and enhance operation of your PACIFIC 4-6-2 Steam locomotive.

LIGHTING:

5. The PACIFIC 4-6-2 Steam Locomotive is equipped with operating Directional Headlight which will ONLY LIGHT when operating in forward direction. Marker/Classification lights will light in either direction.

5A. The PACIFIC 4-6-2 Steam Locomotive is equipped with ON/OFF slide switch located in CAB Interior on Fireman's Side. Push/Slide-in for ON. Switch controls both the Headlight and Marker/Classification lights.

5B. Complete Marker/Classification Light is available for separate repair purchase. To replace Headlight lightbulb, part ART-29502, use the following directions:

5C. Turn off electrical power supply to PACIFIC 4-6-2 Steam Locomotive.

5D. Remove Headlight from smokebox bracket/boiler by loosening screw attaching Headlight.

5E. Wire will be visible and allow access to bulb holder in Headlight.

FIREBOX "RED GLOW":

6. Firebox "Red Glow" utilizes a light bulb (ART-29502) to illuminate a red panel in firebox door opening inside cab. Light bulb is designed for extended usage. Customer replacement may be required at a later date.

6A. Firebox "Red Glow" will illuminate ONLY when MOTOR Switch is ON.

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7F. NEVER OVERFILL smoke reservoir unit with smoke fluid. The unit holds approximately twenty-five (25) drops of fluid. If spilled, wipe up excess promptly and dispose properly.

7G. To prevent smoke unit burnout, NEVER RUN SMOKE UNIT DRY. As soon as unit stops smoking, TURN OFF and refill unit.

7H. PACIFIC 4-6-2 Steam Locomotive is packaged WITHOUT ART-29601 SMOKE FLUID in smoke generator unit. (ART-29601 SMOKE FLUID/TRACK CLEANER is available from your ARISTO-CRAFT TRAINS dealer or direct from Polk's Modelcraft Hobbies).

7I. All fluid in smoke generator unit must be heated by element to begin smoking. If unit is completely full, longer time must be allowed before smoke begins.

7J. For safety and proper operation, USE ONLY ART-29601 SMOKE FLUID to operate Smoke Generator unit. Using improper Smoke Fluid may damage unit and VOID WARRANTY.

CAUTION-CAUTION-CAUTION

7K. The smokestack outer plastic column of this smoke generating unit and surrounding smokebox/boiler MAY BECOME HOT during operation and remain HOT for a reasonable time after unit is turned off. DO NOT TOUCH this unit until it has sufficiently cooled. DO NOT TURN LOCOMOTIVE upside down or sideways because remaining smoke fluid may flow out. Smoke Fluid MAY ALSO BE HOT.

MOTOR CONTROL:

8. The PACIFIC 4-6-2 Steam Locomotive is equipped with ON/OFF slide switch located in CAB Interior on Engineer's Side. Push/slide-in for ON.

PULSE WIDTH CONTROL/P.W.C.:

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

9A. P.W.C. allows a continuous voltage to flow to the motor and accessories (when switches are ON) such as headlight, interior lighting, smoke unit, and diesel or tender 'Electronic Sounds' during operation REGARDLESS of the speed OR direction of locomotive, tender, and/or railcars. In addition, the motor is supplied (when switch is ON) with a continuous voltage to allow smooth starting and stopping.

9B. 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.

9C. Also, the TRAIN POWER PACK 7000 - 3.5 AMP FOR G AND HO previously manufactured 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.

10C. **NOTE:** (Revised 04-01-91) The LONG TENDER can also be operated using a 9 VOLT NCD ReChargeable BATTERY (NOT INCLUDED), inserted into snap-plug inside tender body, to allow the 'STEAM SOUNDS' WITH BELL to function at slow speeds when a P.W.C. ARISTO-CRAFT POWER SUPPLY IS NOT USED. When using the P.W.C. ARISTO-CRAFT POWER SUPPLY, it is not necessary to remove, if previously inserted, the 9 VOLT BATTERY. The use of a standard ALKALINE 9 VOLT BATTERY is NOT RECOMMENDED since it will not re-charge properly and frequent replacement of this type battery after extended usage/time is required.

10D. The 9 VOLT ALKALINE or 9 VOLT NCD ReChargeable BATTERY is NOT AVAILABLE from ARISTO-CRAFT TRAINS. Contact your nearest Full-Service Hobby Shop or Radio/Control Model Airplane-Race Car Dealer for this item.

SERVICE NOTES:

11. All parts contained in the PACIFIC 4-6-2 Steam Locomotive and LONG TENDER are available for replacement or repair by contacting ARISTO-CRAFT TRAINS. If you have any questions, please refer to INTRODUCTION for method of contacting ARISTO-CRAFT TRAINS Customer Service.

MINIMUM TRACK RADIUS:

12. The PACIFIC 4-6-2 Steam Locomotive w/LONG TENDER will operate properly on minimum of ART-11500/ART-30110 MEDIUM CURVE TRACK. However, operation using ART-11800/ART-30120 XWIDE CURVE TRACK is recommended for maximum train length and pulling power. Use of ART-5450 3.5 AMP Power Supply is also suggested.

12A **NOTE:** Factory testing had PACIFIC 4-6-2 Steam Locomotive w/ LONG TENDER pulling 40 freight railcars or 6 Standard Heavyweight Passenger railcars on level ART-11800 XWIDE CURVE TRACK.

9D. If it is not possible to operate your #1 Gauge 1/29 Scale ARISTO-CRAFT TRAINS products 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 will allow PULSE WIDTH CONTROL to be applied to your Indoor/Outdoor model railroad. The ART5401 CONTROL PACK ADAPTOR is now available, see your ARISTO-CRAFT TRAINS A.A.R. Full-Service Hobby shop/dealer.

ELECTRONIC 'STEAM SOUNDS' WITH BELL: (Available on LONG TENDER, ART-21800 Series)

10. The LONG TENDER is equipped at factory with an electrical sound unit, ART-29360, mounted inside tender shell. Speaker sound is emitted through opening in tender underbody. The sound unit is activated automatically by electrical pickup through the tender truck/wheel sets and is synchronized to the current-draw of the steam locomotive. Whenever access is made to tender underbody, caution should be taken regarding electrical wire connections from truck/wheel set pickup to sound unit.

10A. Control of the 'STEAM SOUNDS' WITH BELL is by ON-OFF/Volume Knob located on underframe of LONG TENDER.

10B. **NOTE:** Remove foam insert protecting the roller-cam and pickup before operation. Be careful not to displace pickup. Some-times during shipment, the pickup may be forced upward by roller cam movement and when placed on track, LONG TENDER 'STEAM SOUNDS' will not operate properly. Turn LONG TENDER upside down and with finger, gently press down on pickup until pickup touches roller cam. Pickup will 'spring back' with tension, but is now close enough to 'read' movement of roller-cam.

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CONNECTING PACIFIC LOCOMOTIVE to LONG TENDER

13. Place PACIFIC LOCOMOTIVE upright on flat surface with Metal Drawbar over rear truck and extending vertically from underneath CAB (towards customer in 6 o'clock position).

13A. TAKE LONG TENDER with Metal Drawbar Connector attached and position parallel but to right of LOCOMOTIVE (in 3 o'clock position), aligning the tip of Drawbar Connector under opening on LOCOMOTIVE Metal Drawbar.

13B. Slide upwards into opening and then rotate LONG TENDER to same vertical position (towards customer in 6 o'clock position) from LOCOMOTIVE CAB. It is not necessary to force or modify any connections, if positioned properly all pieces will fit easily.

13C. To operate, lift upwards on LOCOMOTIVE CAB ROOF so Metal Drawbar with TENDER attached will clear rear truck of LOCOMOTIVE. Take connected LONG TENDER and move to proper/in-line rear position behind LOCOMOTIVE. You may now operate normally.

ASSEMBLY INSTRUCTIONS:

14. No assembly required, all PACIFIC 4-6-2 Steam Locomotives come Ready-to-Run. However, due to packaging requirements, the following parts may be enclosed in a small plastic bag for placement on Locomotive (depending upon Railroad Name usage) by customer:

BOILER FRONT NUMBERPLATE
FEEDWATER HEATER/PIPES/BRACKET
WHISTLE
BELL WITH TOP OR FRONT MOUNTING BRACKET
SAND DOME
FRONT PILOT

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15. PARTS LISTING FOR ART-21400 Series PACIFIC 4-6-2 Steam Locomotive, all railroad names and Undecorated. See LONG TENDER Instruction Manual for additional LONG TENDER PARTS LISTING.

PART #	DESCRIPTION	COST
21400-01	LOCOMOTIVE Instruction Manual	1.00
214xx-02	Boiler Body Shell	75.95
21400-03	Underframe (without trucks/etc.)	50.95
21400-05	GEARBOX w/DRIVE wheels and MOTOR w/w/Valve Gear Assembly	99.95
21400-06	MOTOR w/shaft only	20.95
29500	AAB-Knuckle Coupler (Pair)	7.95
29507	SMOKE GENERATOR UNIT	16.95
29503	Assorted Screw Set	4.98
29502	Light Bulb (10 pieces)	7.95
29503	BULB and SOCKET SET w/wire (2 pcs.)	5.95
29601	Smoke Fluid	3.50
29602	Lubricant-Conductive	1.00
21400-04	METAL Drawbar for LOCOMOTIVE	5.00
21800-04	METAL Drawbar Connector for LONG TENDER	3.00
214xx-08	Front Truck w/metal wheels	20.95
214xx-09	Rear Truck w/metal wheels	20.95
214xx-10	Headlight	5.00
214xx-11	Headlight Bracket (metal)	2.00
21400-12	Front Marker/Classification Light (pair)	5.00
21400-22	BRASS GrabRailing-front	2.00
21400-23	BRASS GrabRailing-Boiler side	10.95
21400-24	BRASS GrabRailing-cab-roof	3.00
214xx-25	Front Ladder - (Plastic) each	2.00
214xx-27	Side Air Pump - (Plastic)	3.00
21400-28	GrabRailing posts - (Black Plastic) 12 pcs.	5.00
214xx-30	CAB w/o windows and trim	10.95
21400-31	CAB Front (Clear Plastic) Window	2.00
21400-32	CAB Side Sliding (Clear plastic) Window	3.00
214xx-39	Boiler Top Dome-front/large	3.00
214xx-40	Boiler Top Dome-rear/small	3.00
21400-41	Bell (Plastic)	2.00
21400-42	Bell Mounting Bracket for Boiler TOP	2.00
214xx-43	Bell Mounting Bracket for Boiler FRONT	2.00
214xx-44	Feedwater Heater w/wipes	6.00
21404-45	Feedwater Heater Front Nameplate/Bracket	2.00
21401-46	KEYSTONE Numberplate (PENNSYLVANIA ONLY)	2.00
214xx-47	Round Numberplate	2.00
21400-48	WHISTLE	2.00
214xx-60	Smokestack Top	3.00
21400-61	Smokestack Filter Element	1.00

15A. Additional parts available, contact ARISTO-CRAFT TRAINS Customer Service for complete part listing and availability.

xx - refers to last two digits of railroad name PACIFIC 4-6-2 Locomotive when part is painted to match, i.e. ART-21404-30 would refer to CAB w/o windows and trim for the NEW JERSEY CENTRAL BLUE COMET PACIFIC 4-6-2 Locomotive. When part is same for all PACIFIC LOCOMOTIVES, 00 would replace the xx used in part(s) listing, such as ART-21400-61 Smokestack Filter Element.

15B. **NOTE:** When ordering replacement parts or repair request, please refer to the proper ART 5-digit or 7-digit part number shown above.

Unpainted/black plastic PART(S) will be automatically substituted if the Painted-to-match PART(S) ordered not available.

In addition to COST shown above, please enclose ...
\$3.50 shipping/handling* if PART Order less than \$10.00 or
\$5.00 shipping/handling* if PART Order \$10.00 and above.

*This is for PART Order only, not WARRANTY Order.
NO C.O.D. shipping on parts, prepaid or Charge Card ONLY

Refer to Exploded Parts Diagram/Parts Price List for Parts information.

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LIMITED WARRANTY

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

16B. 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

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

17A. Return product with foam insert in ORIGINAL Black Box, And pack product carefully in (another) corrugated cardboard box, FULLY INSURED and PREPAID. ARISTO-CRAFT TRAINS will not be responsible for any damage or loss incurred during return for servicing

17B. DO NOT SHIP PRODUCT ONLY in Black ARISTO-CRAFT TRAINS box with shipping label. This WILL NOT protect product during shipping and CUSTOMER is liable for damage to product.

17C. Include a brief but thorough explanation of the problem(s) and the servicing that may be required.

17D. Be sure to include your name, street address, city, state (or province), country (if outside USA), and postal zipcode along with 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.

17E. Include proper payment for shipping/handling -
Call for proper shipping/handling if outside continental US
Locomotive or Complete Train Set \$20.00 US

Accessories, switch-track
Individual freight/passenger railcars, or tender \$10.00 US

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

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

17F. Ship your item(s) to:

Aristo-Craft Trains Phone: 973-351-9800
698 South 21st St Fax: 973-351-9700
Irvington, NJ 07111 email: aristo@mindspring.com

17G. Immediate written confirmation of receipt of returned item(s) will be sent along with estimated repair time by ARISTO-CRAFT TRAINS Service/Repair Department.

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