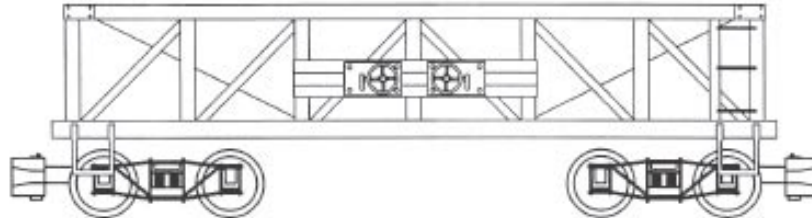


# WOOD-STYLE COAL HOPPER CAR

INSTRUCTION MANUAL for ART-81400 SERIES



ARISTO-CRAFT TRAINS *Delton Classics*

## INTRODUCTION

Dear Model Railroader:

This product is one of the most highly detailed #1 GAUGE 1/24th Scale Model Railroad Freight Railcars available. Suitable for both INDOOR and OUTDOOR operation, it accurately portrays a North American prototype WOOD-STYLE COAL HOPPER Car, based upon our research and on documented Official Blueprints referenced to standard Association of American Railroads (AAR) recommended practice. Originally intended as a Narrow Gauge freight railcar, because it is a 1/24th scale ARISTO-CRAFT TRAINS DELTON CLASSICS model of a 'real' Narrow Gauge (smaller) freight car, it becomes perfectly compatible with all 1/29th scale ARISTO-CRAFT TRAINS products.

Should you have any questions about operations, proper usage, or maintenance required on this freight railcar or any other ARISTO-CRAFT TRAINS DELTON CLASSICS #1 GAUGE 1/24th Scale Model Railroad product, please contact us at the following address:

ARISTO-CRAFT TRAINS	PHONE: 973-351-9800
698 SOUTH 21ST STREET	FAX: 973-351-9700
IRVINGTON, NJ 07111	EMAIL: <a href="mailto:aristo@mindspring.com">aristo@mindspring.com</a>
	<a href="http://www.aristocraft.com">www.aristocraft.com</a>

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

Or contact us through E-mail by computer on the INTERNET.

The following instructions are intended to help you understand and operate all the features built into this product.

Good Railroading!!!

Lewis Polk

ARISTO-CRAFT TRAINS

### WOOD-STYLE COAL HOPPER CAR

The WOOD-STYLE COAL HOPPER CAR is based upon a Freight Railcar of the late 1850's/1860'S era originally used by the QUINCY & TORCH LAKE RAILROAD in Michigan, USA. Actual prototype examples of this type car are no longer in daily use by any North American Railroads since wooden railcars have not been allowed in interchange service on any railroad for many years. Restored examples of a similar type WOOD-STYLE COAL HOPPER CAR is on display (1995) at the Pennsylvania State Railroad Museum, Strasburg, PA, USA.

### WORKING FEATURES:

Operating AAR-design knuckle couplers.  
Detailed freight car trucks/wheelsets with individual springs.

### EXTERIOR DETAILS:

Three-dimensional Grab-Railings on Ends and Sides.  
Simulated WOOD-GRAIN interior hopper flooring and bodyside/end.  
Full Underframe details.  
BRASS Brakewheel Post.

### FEATURES

#### TRUCK BEARINGS:

1. 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 a dry lubricant of powdered graphite, an oil-based liquid lubricant, or ARISTO-CRAFT TRAINS ART-29602 CONDUCTIVE LUBRICANT but ONLY in very small amounts. It is not necessary to dis-assemble freight railcar trucks to properly lubricate. Turn freight railcar upside down and apply lubricant to axle ends at truck sideframe.

#### TRUCK SPRINGS:

2. 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. If you should decide to add a load into the COAL HOPPER CAR, remember to distribute the weight evenly throughout the COAL HOPPER CAR. If there is more weight at one end of the COAL HOPPER CAR, the springs will compress only at the loaded end causing operational problems and, possibly derailments.

#### COUPLERS

3. DO NOT CONFUSE ART-89200 ARISTO-CRAFT TRAINS DELTON CLASSICS Knuckle Couplers (used only on former DELTON products produced 1985-1994 and the new 1995 production DELTON CLASSICS by ARISTO-CRAFT TRAINS) with the ART-29200 ARISTO-CRAFT TRAINS Knuckle Couplers. While both style couplers may appear to be similar Knuckle Couplers, many of the components/parts are not interchangeable and automatic operation between the two styles may not be possible. See Item 3B.

3A. The operating knuckle couplers on all the ARISTO-CRAFT TRAINS and ARISTO-CRAFT TRAINS DELTON CLASSICS locomotives and passenger/freight railcars are designed based upon the AAR style used on all major North American Railroads. See Item 3. above.

3B. **NOTE:** However, these knuckle couplers may not operate automatically when attempting to couple ARISTO-CRAFT TRAINS DELTON CLASSICS products to knuckle couplers used by other model railroad manufacturers. Knuckle couplers may have to be joined by manually coupling the knuckle on each car/locomotive end in a closed position then lifting one end knuckle coupler and inserting the closed knuckle onto the ARISTO-CRAFT TRAINS or ARISTO-CRAFT TRAINS DELTON CLASSICS knuckle coupler. See Item 3. above.

3C. This type knuckle coupler works equally well from either end of the freight 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. 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.

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

### ASSEMBLY INSTRUCTIONS:

No assembly required, WOOD-STYLE COAL HOPPER CAR is ready-to-run except Undecorated/KIT.

**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:

7. All ARISTO-CRAFT TRAINS DELTON CLASSICS locomotives, tenders, railcars, trainsets, or accessories 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.

8. 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:

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

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

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

12. Be sure to include your name, street address (no Post Office Box please), 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 should be both INSIDE package and on OUTSIDE cardboard box.

13. Include proper payment for shipping/handling -

Locomotives, Complete Train Sets, Accessories, Building, Switch-truck or individual freight cars, railcars, etc. **CALL FOR CURRENT SHIPPING COSTS**

- with your (USA Bank Account only) check/Money Order payable in US Dollars (\$) to: Polk's Modelcraft Hobbies, Inc. **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 are additional cost.\*\*\***

14. 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

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