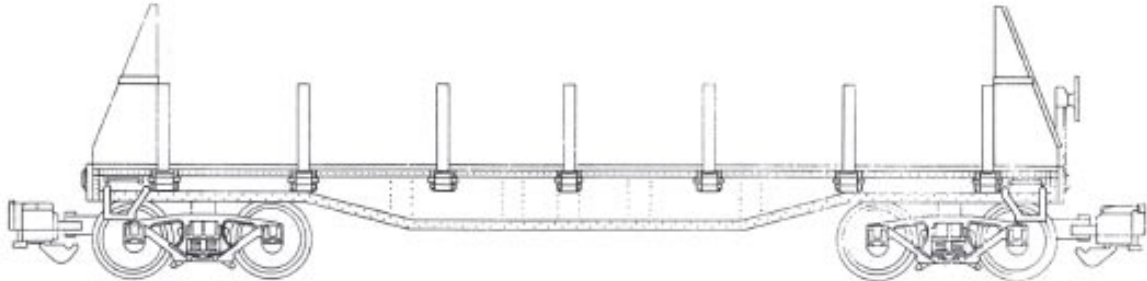




# BULKHEAD 40FT FLATCAR

INSTRUCTION MANUAL ART 46400-01



## ARISTO-CRAFT TRAINS

092492 REV

### INTRODUCTION

Dear Model Railroader:

This product is the most highly detailed #1 GAUGE 1/29 Scale Model Railroad Freight Railcar available. Suitable for both INDOOR and OUTDOOR operation, it accurately portrays a North American prototype freight railcar, 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 operations, proper usage, or maintenance required on this freight railcar or any other RAILWAY EXPRESS AGENCY #1 GAUGE 1/29 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: aristo@mindspring.com  
www.aristocraft.com

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

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

Good Railroading!!!!

### BULKHEAD 40FT FLAT CAR

The bulkhead flat car is based upon a forty-foot Steel Freight Railcar of the 1930's era. Actual prototype examples of this type flat car are still in daily use on many North American Railroads.

#### WORKING FEATURES:

Removable Stakes  
Operating AAR design knuckle couplers.  
Detailed freight car trucks/sheelsets with individual springs.

#### EXTERIOR DETAILS:

Three-dimensional ladders on Bulkhead Ends.  
BRASS Grab Railings. - Many versions blackened or painted  
Simulated WOOD-GRAIN flooring.  
Full Underframe, including Air Brake System components.

#### FEATURES

##### 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 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 disassemble freight railcar trucks to properly lubricate. Turn freight railcar 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. If you should decide to add a load onto the flatcar, remember to

distribute the weight evenly throughout the flatcar. If there is more weight at one end of the 40FT FLATCAR, the springs will compress only at the loaded end causing operational problems and, possibly derailments.

**COUPLERS:**

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

**NOTE:** However, 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 railcar 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. The 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 couplers properly aligned and fully coupled to opposite railcar/locomotive. Otherwise, railcar(s) may derail on curves or switch tracks. 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 railcar is in motion. Manual centering is accomplished by exerting light pressure on knuckle/Loop at articulated joint and returning knuckle/Loop to center.

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

46300-21	Screw small (pair)	1.00
46400-23	Screw large (pair)	1.00
46400-24	Side-pocket stake	1.00

xx - refers to last two digits of roadname ART freight car number when part is painted to match, i.e. ART46401 NORTHERN PACIFIC. 46401-06 would then refer to Bulkhead Ends for NORTHERN PACIFIC Bulkhead Flatcar ART 46401. When part is same FOR ALL BULKHEAD FLAT CARS, 46400 - plus 2 digit number would be used to denote specific part, i.e. 46400-03 is BULKHEAD FLAT CAR underframe used on all BULKHEAD FLAT CARS regardless of railroad name.

**NOTE:** when ordering replacement parts or repair request, please refer to proper 5 or 7 digit part number listed.

\*\*\*Unpainted/black plastic PART(S) will be 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.

**LIMITED WARRANTY:**

All ARISTO-CRAFT TRAINS 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.

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.

**ASSEMBLY INSTRUCTIONS:**

Bulkhead ends, side-pocket stakes, and brakewheel assembly are packaged in plastic bag. No other assembly required.

1. Align bulkhead end of flat car floor end with flat side facing inward. Then secure bulkhead end to floor by inserting screw in pre-drilled hole(s).
2. Position ladder on upper side of bulkhead end, angled top of ladder against bulkhead top. Secure screws in top and bottom pre-drilled holes.
3. Insert brakewheel post into upper hole on railcar ends, then insert screw into pre-drilled hole.

**NOTE:** Only tighten screws sufficiently to secure part to freight railcar during assembly. Excessive force may strip threads in pre-drilled hole or crack plastic base and possibly cause attached parts to loosen from vibration when operating freight railcar in train. If assembly is for permanent operation, it is suggested that in addition to using screws to fasten parts to railcar, use a plastic-weld liquid cement.

4. Insert side-pocket stakes into each opening, allowing set-back end of stake to fit properly in pocket. Stakes are 'snap-fit'.

**PARTS LISTING FOR ART 46400 Series BULKHEAD FLATCAR, all railroad names and Undecorated.**

PART #	DESCRIPTION	COST
46400-01	Instruction Manual	1.00
464xx-02	Flat car body	20.00
46400-03	Flat car underframe	15.00
29101	Truck/Wheelset (pair)	16.95
29101-09	Metal Truck Springs (pair)	1.00
29201	AAR Knuckle coupler (pair)	7.95
46400-04	Flatcar floor	10.00
464xx-06	Bulkhead end	5.00
46300-11	Brakewheel (Black plastic)	1.00
464xx-12	Brakewheel post	1.00



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

**SERVICING:**

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

1. 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 PREPAID. ARISTO-CRAFT TRAINS will not be responsible for any damage or loss incurred during shipping.
2. Include a brief but thorough explanation of the problem(s) and the servicing that may be required.
3. 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 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.
4. Include proper payment for shipping/handling -

Locomotive or Complete Train Set.....\$70.00 U.S.  
 Accessories (including freight/truck, or individual switch-trucks, or individual freight/truck).....\$10.00 U.S.  
 - with your US 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 are additional cost.\*\*\*

5. 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
6. Immediate written confirmation of receipt of returned item(s) will be sent along with estimated repair time/cost by ARISTO-CRAFT TRAINS Service/Repair Department.

