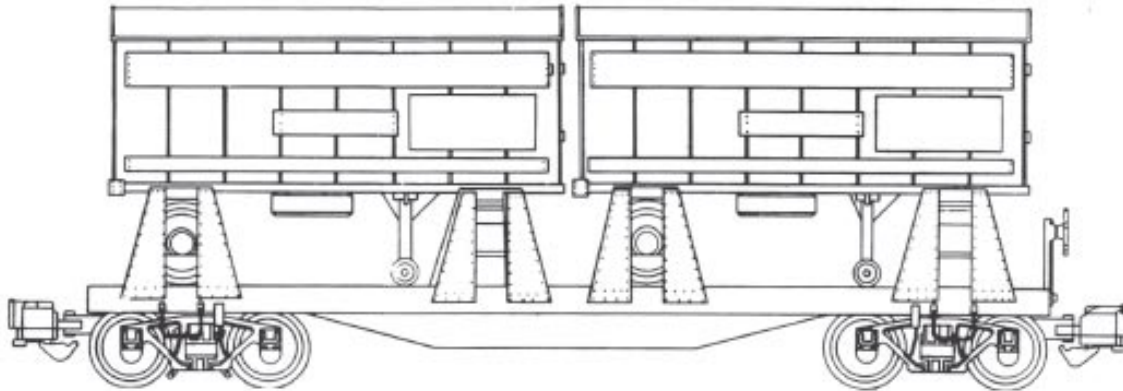




PIGGYBACK FLATCAR with TWO TRAILERS

INSTRUCTION MANUAL ART 46500-01



ARISTO-CRAFT TRAINS

INTRODUCTION

Dear Model Railroader:

This product is one of the most highly detailed #1 GAUGE 1/29th Scale Model Railroad Freight Railcars available. Suitable for both INDOOR and OUTDOOR operation, it accurately portrays a North American prototype Piggyback Flatcar with Two Trailers, 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 ARISTO-CRAFT TRAINS #1 GAUGE 1/29th 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!!!!

PIGGYBACK FLATCAR WITH TWO TRAILERS

The PIGGYBACK FLATCAR is based upon an actual freight railcar used originally by the CHICAGO, NORTH SHORE & MILWAUKEE RAILROAD (CNS&M) to haul truck trailers between Chicago, Illinois and Milwaukee, Wisconsin during the 1920's. The CNS&M was one of the early pioneers in 'piggyback' shipments by railroad flatcar.

WORKING FEATURES:

Operating AAR-design knuckle couplers.
Detailed freight car trucks/wheelsets with individual springs.
Operating truck trailer doors with moveable latch.
Removable Truck Trailers.

EXTERIOR DETAILS:

BRASS Grab Railings.
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 dis-assemble 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 inside the piggyback trailers, remember to distribute the weight evenly between both trailers. If there is more weight at one end of the PIGGYBACK FLATCAR, the springs will compress only at the loaded end causing operational problems and, possibly derailments.

COUPLER:

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 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.

TWO TRUCK TRAILERS

Each Piggyback Flatcar comes with two truck trailers that are interchangeable with other railroad-name trailers from other ART-46500 series PIGGYBACK FLATCAR WITH TWO TRAILERS.

REMOVAL/ATTACHING TRAILERS

To remove truck trailer(s) from PIGGYBACK FLATCAR, first unhook Brass chain from trailer underside - 4 chains per trailer - being careful not to bend the hookend during removal. Then unscrew each of 4 screws in side supports. Grasp truck trailer firmly and lift upward off railcar.

To attach truck trailer(s) perform as above, but in reverse sequence.

NOTE: Make sure screws are firm but DO NOT force screws as plastic may be damaged. Check hole alignment.

Due to characteristics of chain hooks, excessive removal/attachment is NOT recommended.

To operate trailer doors, unlatch and swing open. DO NOT OPERATE railcar with trailer doors open.

ASSEMBLY INSTRUCTIONS:

No assembly required, PIGGYBACK FLATCAR WITH TWO TRAILERS is ready-to-run except Undecorated/KIT.

PARTS LISTING FOR ART 46500 Series PIGGYBACK CAR, all railroad names and Undecorated/KIT.

PART #	DESCRIPTION	COST
46500-01	Instruction Manual	1.00
465xx-02	PIGGYBACK FLATCAR car side/end (pair) (except LTD./SPL. Edition)	30.00
46500-03	PIGGYBACK FLATCAR underframe	15.00
29101	Truck/wheelset (pair)	16.95
29101-99	Metal Truck Springs (pair)	10.00
29200	AAR Knuckle coupler (pair)	7.95
46500-04	PIGGYBACK FLATCAR floor	10.00
465xx-05	TRAILER Roof	2.00
465xx-27	TRAILER Inside floor	2.00
465xx-28	TRAILER Outside floor	2.00
46500-2	TRAILER Floor Step (black plastic)	1.00
46500-30	TRAILER Door handle (black plastic)	1.00
465xx-07	TRAILER Long Nameplate	1.00
465xx-08	TRAILER Small Nameplate	1.00
465xx-09	TRAILER BODY	10.00
46500-31	TRAILER Wheel/Tire-large	1.00
46500-32	TRAILER Wheel/Tire-small	1.00
46500-33	TRAILER axle	1.00
46500-11	TRAILER Support Arm	1.00
46000-11	Brakewheel (Black plastic)	1.00
465xx-12	Brakewheel post	1.00
46500-25	Brass Step	2.00
46500-20	Brass grab railing - small	2.00
46500-26	Brass Chain (pair)	2.00
46500-22	TRAILER Attaching Screw (2)	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

xx - refers to last two digits of roadname ART freight car number when part is painted to match, i.e. ART-46502 SANTA FE. 46502-05 would then refer to TRAILER Roof for SANTA FE PIGGYBACK CAR ART-46502. When part is same FOR ALL PIGGYBACK FLATCAR WITH TWO TRAILERS. 46500 - plus 2 digit number would be used to denote specific part, i.e. 46500-22 is TRAILER Attaching Screw (2) on all PIGGYBACK FLATCARS WITH TWO TRAILERS regardless of railroad name.

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

Undecorated/black plastic PART(S) will be substituted if the painted/matched 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.

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 -

Loc. not in sample shown...
Accessories, tender, switch-train, and 1000 freight/passenger railcars...\$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 are additional cost.*

5. Ship your item(s) to:
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
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.