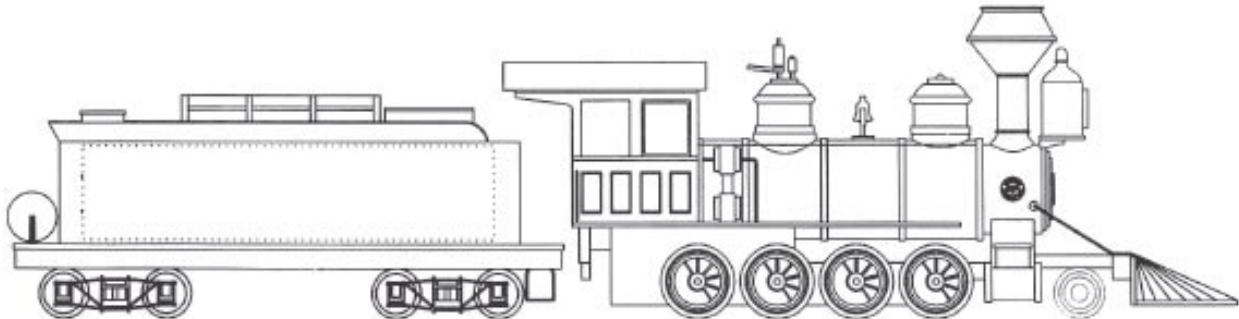


C-16, 2-8-0

STEAM LOCOMOTIVE

INSTRUCTION MANUAL ART-80100 - 01



ARISTO-CRAFT TRAINS

41398 NEW

Dear Model Railroader,

This item, the C-16, 2-8-0 Steam locomotive, is a highly detailed #1 Gauge, 1/24th scale unit and is suitable for both indoor and outdoor operation. It replicates locomotives constructed by the Grant Locomotive Works or the Baldwin Locomotive Works for the Denver & Rio Grande Western Railroad during the 1880's.

The model closely follows the character of the prototype and comes in either a modernized, coal burning version, or the original wood burning version, complete with diamond stack. Some of the details featured are the solid brass handrails, movable bell, cab details, working lights and a functioning smoke unit.

Among the features included in this model are:

- ★ Smooth worm drive on the first and fourth drivers
- ★ Working headlight and marker lights
- ★ Realistic working knuckle couplers
- ★ Ball bearings on the driven axles
- ★ Working smoke unit
- ★ Electrical pickup from locomotive and tender

Should you have any questions regarding operation, proper usage or maintenance required on this or any other Aristo-Craft product, please do not hesitate to contact us at the following address:

Aristo-Craft Trains
698 South 21st St
Irvington, NJ 07111

Phone: 973-351-9800
Fax: 973-351-9700
email: aristo@mindspring.com

Our customer service department phones are open from 10:00 AM to 5:00 PM Eastern time, Monday through Friday.

COUPLERS

The locomotive does not have a coupler on the front and has a draw bar on the rear to engage the tender. The rear of the tender, however, has a working knuckle coupler of the prior Delton type. If it is desired to install either an Aristo-Craft working knuckle coupler, ART-29200, or a hook and loop style coupler, merely unscrew the existing coupler and replace it using the same screw.

ELECTRICAL PICKUP

The driving wheels of the locomotive and one pair of tender wheels on each truck are designed for electric power pickup. After extended periods of operation, the wheels will become dirty and will require cleaning in order to maintain good electrical contact. Aristo-Craft Smoke Fluid / Track Cleaner, ART-29601, applied with a clean cloth may be used to effectively clean the wheels. Pressing against the backs of the tender wheels which pick up power are small, spring loaded carbon brushes which transfer the current from the wheels to the lights and motor.

After prolonged operation it may be necessary to replace these brushes, which is accomplished by the following:

Using a small Phillips screwdriver, remove the small screw that fastens the plastic brush holder to the truck frame. Remove the old brushes and replace them with new ones. Remember that these brushes are spring loaded and may fly out if care is not exercised. Reinstall the brush holder by reversing the above process. Be careful not to break the connecting wires.

There is an electrical connection between the locomotive and tender with a modular connector to allow them to be separated. To separate the modular connectors, hold both sides, squeeze the prongs on the tender side connector and pull apart. It is necessary to hold the locomotive side connector as well as the tender side connector so that it will not pull out of its position on the locomotive upon separation.

LUBRICATION

Under normal usage, frequent lubrication is not necessary. In fact, over lubrication can be detrimental to the locomotive and tender. The first and fourth drive axles contain ball bearings and do not require any lubrication at all. When lubrication is necessary, turn the locomotive and tender upside down and place one drop of Aristo-Lube Oil, ART-29603, at each of the following places:

- ★ The pony truck axle where it is held by the frame
- ★ The axles of the second and third drive wheels where they emerge from the bearings
- ★ The axle ends on the tender trucks

It may also be necessary to place a drop of oil on the piston rods and crosshead guides.

MOTOR AND SMOKE SWITCH

The motor and smoke unit on this locomotive can be turned on and off by using the 3 position toggle switch located on the back of the boiler.

- ★ Switch up - Motor, lights and smoke on
- ★ Switch in center - All power off
- ★ Switch down - Motor and lights on, smoke off

SMOKE GENERATOR

This locomotive is equipped with a smoke generating smoke stack. To operate this feature, the stack must have Aristo-Craft Smoke Fluid, ART-29601 inserted. Do not over fill. Use only 6 or 7 drops of fluid, poured down the opening in the center of the stack. Be sure that the smoke switch is in the "up" position. Never let the smoke unit run dry as it may cause a burn out. If the locomotive stops smoking, or if no smoke is desired, be sure that the smoke switch is set in the "down" position.

Should it ever become necessary to replace the smoke unit, simply pull up and unplug the stack and plug in a new stack.

Please note that this smoke unit will only work efficiently with full power to the track. We recommend the use of Aristo-Craft power packs equipped with "Pulse Width Control" (PWC). This is not pulse power. PWC keeps current to the rails, allowing track powered accessories to operate to their best degree.

LIMITED WARRANTY

All ARISTO-CRAFT TRAINS products are under warranty for five (5) years from the 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 the purchaser/owner, abused or damaged in any way through improper operation such as but not limited to derailment, repairs or modifications performed by non-authorized service centers or technicians.

SERVICING

Should your ARISTO-CRAFT TRAINS product require warranty service, please return it in the original box, if possible, protected by a proper shipping carton. Send the product fully insured and prepaid. ARISTO-CRAFT TRAINS will not be responsible for any loss or damage incurred during shipping. Be sure to include a brief, but thorough explanation of the problem, together with your name, street address (no Post Office box please), city state or province and country, if outside of the United States. Also include a daytime telephone number so that we may contact you if necessary. Your return address should be clearly marked on the outside of the shipping carton.

The proper payment for shipping and handling, in U.S. funds, should also be included as follows:

Locomotive or complete train set	\$20.00
CALL FOR CURRENT	
Accessories, switches, track, freight or passenger cars, rail cars, tenders, etc.	\$10.00
SHIPPING COSTS	

Your check or money order should be made payable to: Polk's Modelcraft Hobbies, Inc. Do not send cash. If your item is not covered by warranty service, you will be contacted and a repair estimate given before any work commences.

The shipping address to be used for returns is as follows:

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

Written confirmation of receipt of returned items will be sent with estimated repair time by the ARISTO-CRAFT TRAINS Customer service Department.