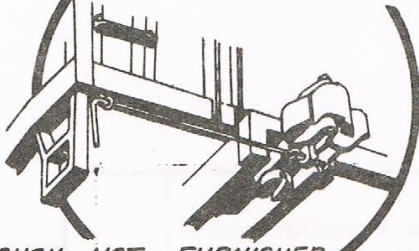
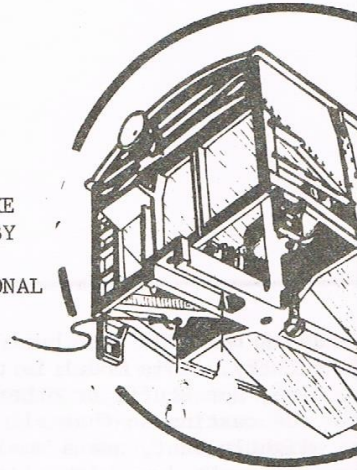


AUTOMATIC COUPLER
DETAIL

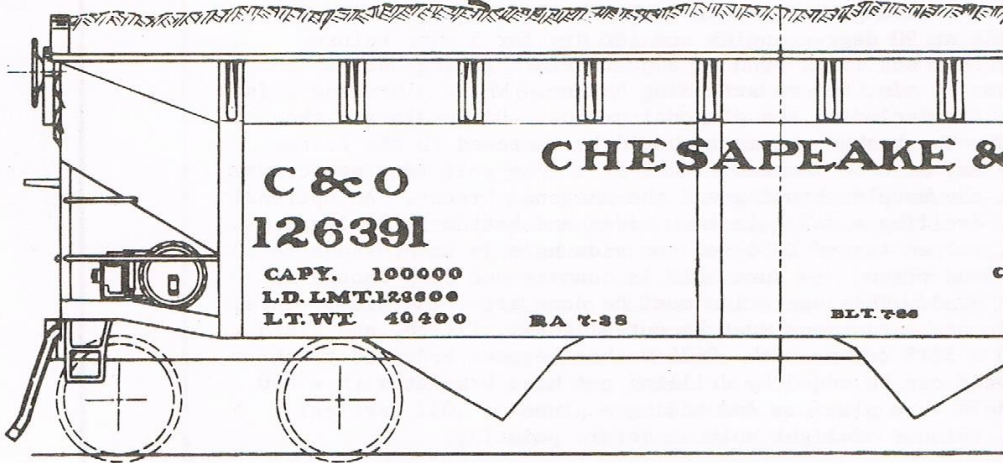


ATTACH BRAKE
EQUIPMENT BY
GLUING TO
FRAME DIAGONAL
BRACES



ALTHOUGH NOT FURNISHED
IN KIT, AUTOMATIC COUPLERS
MAY BE ADDED AS SHOWN.

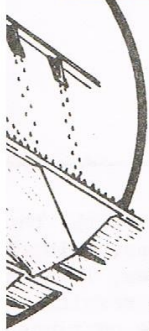
CRUSHED COAL BONDED
BY SHELLAC



CONSTRUCTION NOTES:
SEE REVERSE SIDE

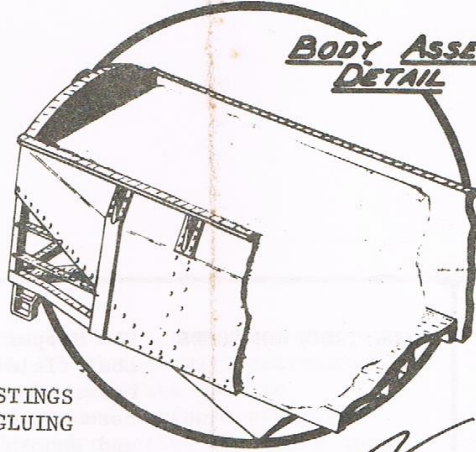
C & O **HO**

**AB BRAKE
EQUIPMENT
DETAIL**

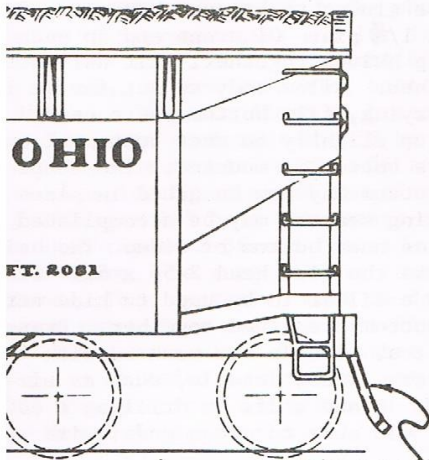


SIDE AND END CASTINGS
ARE SECURED BY GLUING
AT RIGHT ANGLES

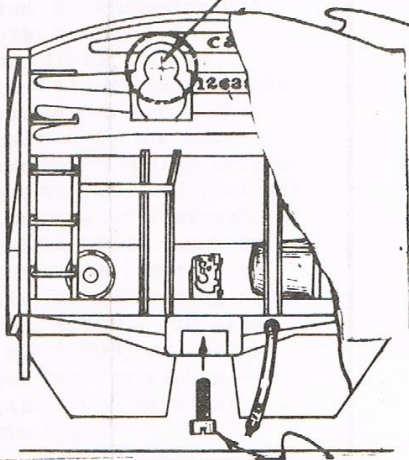
**BODY ASSEMBLY
DETAIL**



FASTEN BRAKE
WHEEL WITH
#20 x 1/4 PIN



AIR HOSES ARE ADDED
IF DESIRED



LETTERING
PLACED ON
CENTER ON
OPPOSITE END.

SELF TAPPING SCREW
TO SECURE BOTTOM
COUPLER

HOPPER

ALL NATION LINE

C & O HOPPER

SCALE 1/4" = 1'0" Drawing - Full Size

ALL-NATION LINE
23 W 546 ST. CHARLES RD.
WHEATON, ILL. 60187

CONSTRUCTION NOTES - C&O Hopper cars were built by the thousands in the coal fields of the Virginias, Ohio, and Pennsylvania. Use FRESH Super glues, like Krazy Glue, to assemble this car for best results. Finish the body smooth. If some of the castings are rough, cast them on a wood block. Some straighten the body before gluing to be sure body is square. Use a #20 x 1/4" pin. Glue one end to each side of the body, gluing halves together. Fit halves together. Allow body to set for at least 24 hours before drying, file bottom where needed to be bent up slightly to meet bottom of end coupler. The bottom may now be glued in place and secured. A securing measure may be accomplished by drilling small dimples near bottom of side. The hole in the side will receive the flat head 2-56 x 5/16 flat head screw. Allow a filler to be used to hide screw head. Side and bottom are glued together. Brass wheels are in place. Trucks are mounted with 4-4 trucks on a bolster. Other details, such as air horn, are added by drill. Brake staff by drilling a #60 hole in the side. Be sure to clean model with some

ands in the 1930's to haul the nation's coal from the
Kentucky. This model is the H5-30 type with corrugated
y Glue, Hot Stuff, or other cyanoacrylate glue to
le the casting, so that all flash and surfaces are clean
e slightly bent, use a small wooden mallet to strike the
ening can be done with pliers. Fit casting together
. Before gluing, mount brake wheel to Ajax housing with
de at 90 degree angles and let dry for 5 min. before
ether and file, bend or adjust before gluing halves
st 10 min. before attaching bottom. While sides and ends
fit including the diagonal braces. Diagonals are then
. The brake equipment should be fastened to the braces
may also be mounted with 2-56 x 5/16 self tapping screws.
the coupler housing and the diagonal braces. An optional
drilling a #49 hole thru sides and bottom at designated
is then tapped 2-56 and the side hole is countersunk to
head screw. Be sure hole is countersunk deep enough to
head. This operation must be done after the sides, ends,
opper extensions must be cut slightly, fitted, and glued
x 5/16 screws with .0625 washer between body and truck
ses can be added by drilling out hose bracket with a #60
ole thru platform and adding a piece of .032 vertical
thinner of light solvent before painting.