



# Instructions

## ATSF Ft-L, N, O & P Flatcar Autoframe Loader and Wallboard Load

The objective of Sunshine Models is to enable the modeler to build distinctive cars without having to scratch build.

✓ If a warped piece is found, heat an oven to 150 degrees, turn it off and place the piece on a flat tray inside the oven for 10 minutes.

### WARNING

★ The cast parts are best attached with ACC. When the term "cement" is used in the instructions, it refers to ACC. It is a strong adhesive and dries quickly. It can easily attach a part where it is not supposed to be, including your fingers. Be careful. Place a few drops of ACC on a plate of glass and use a wire to transfer small amounts to the areas to be joined. Wear safety glasses.

★ ACC debonder is a useful tool for removing smudges and excess ACC from surfaces. Place a drop on the offending spot and wipe up.

★ We don't recommend using GOO except in small quantities, since it can soften the castings.

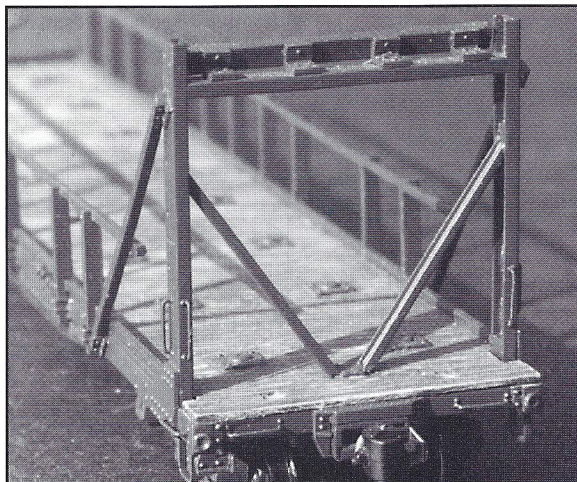
★ Use liquid solvents to bond plastic.

### Assembly

✓ These are instructions for building the Ft O Autoloading equipment and wallboard load for the Ft L & N.

### Autoframe Loading Equipment

- 11. Build the autoframe flats.
- a. Complete the flat car without adding the deck and paint. Construct the autoframe parts with reference to the photos.
  - b. Position the car with the "B" end to the left. Remove the 4th, 10th, 13th and 14th stake pockets. Remove those opposite, as well.
  - c. Paint the car but do not letter it.




d. Remove flash, clean and paint the major parts of the autoframe additions. Drill each


plate on the reinforced deck for eyebolts (#79). Finish the deck in creosote (section 8) and hand paint the plates on the deck.

e. Add the autoframe deck with 10" x 12" wood end bumper on top of deck at "B" end.

f. Remove the extraneous material behind the side rail extensions that fit into the stake pockets. Place the side rails into the stake


pockets. Add a pentagonal gusset plate  to both sides of the side sill, 18" from the end of the "A" end of the car.

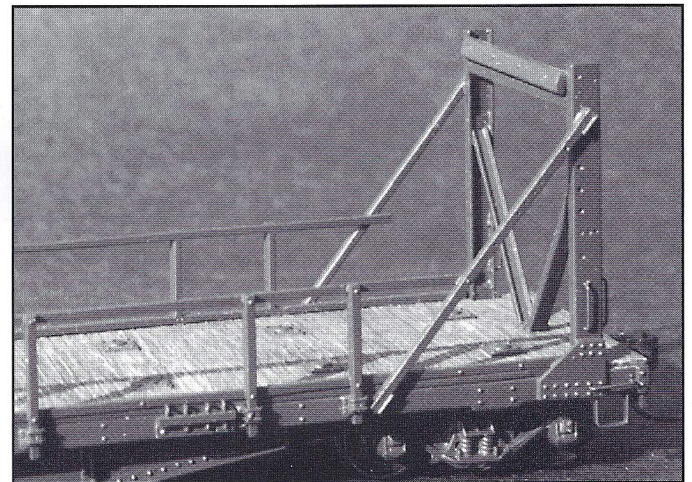
g. Add the "U" frame auto frame support into the deck cavities behind the gusset plates. Cement the two cast 4" x 4" wood diagonal supports with metal brackets from side sill to "U" frame.


h. Cement 4 small riveted angles  to top of "U" frame and add 6" x 8" buffer board having recessed bolt heads against angles.

i. Cut two channel braces to form truss from deck plate diagonally to "U" frame side. Cement in place.

j. Drill (#79) four holes for eyebolts in four

tie down brackets.  Add the tie down loop eyebolts. Cement to car sides using photos.



k. Bend two 13' 3" long tie-down rods from .010 wire with hook in one end. Drill and insert one end through the end of the tie down cross bar . Hook end is inserted into a tie down loop.

l. Create 16 tie down chains. Cut 16 pieces of chain 3' 6" long and insert in each of 16 eyebolts. Install the eyebolts and chains in the deck plates.

m. Drill (#79) and install 16 eyebolts into the bottom of 8 tie down ladders. Open the loop of eyebolts slightly.

n. Drill and install the two "A" end side sill grabs. Drill and install two side and two end straight grabs in the "U" frame.

