

ATHEARN METAL LINE O SCALE

ASSEMBLY INSTRUCTIONS FOR 40' and 50' SINGLE AND DOUBLE DOOR ATHEARN METAL LINE CARS

1 UNDERFRAME AND FLOOR ASSEMBLY

INSERT BOLSTER BEARING BLOCKS AND CROSS MEMBERS IN FRAME CHANNEL. ATTACH TO FLOOR WITH SHORT 4-40 SCREWS.

2 CONSTRUCTING WOOD BODY, ATTACHING WOOD SIDES AND SILL STEPS

NAIL END BLOCKS IN POSITION BETWEEN ROOF AND FLOOR FLUSH WITH SIDES AND ENDS OF BOTH MEMBERS. FASTEN WOOD SIDES IN PLACE SHOVING TIGHTLY UNDER ROOF OVERHANG AND SANDING LOWER EDGES FLUSH WITH BOTTOM OF FLOOR. FOR ADDITIONAL STRENGTH AND DURABILITY, CEMENT THE WOOD SIDES IN PLACE. AFTER CEMENT HAS SET, REMOVE PRE-PUNCHED DOOR OPENING BY CUTTING WITH A SHARP KNIFE. NAIL STEPS IN POSITION. THE SIDES SHOULD BE NOTCHED FOR STEPS IN ORDER THAT THE METAL SIDES WILL HAVE A SMOOTH BACKING. CHECK THE FIT OF THE ROOF AND ENDS. IT MAY BE NECESSARY TO SAND THE END OF THE ROOF AND END BLOCK SLIGHTLY FOR A PERFECT FIT.

3 ASSEMBLY OF BODY - SIDES, ENDS AND DOORS

PIERCE METAL ENDS WITH 1/32" HOLES TO FASTEN END HARDWARE AS SHOWN, REMEMBERING THAT BRAKE HOUSING AND PLATFORM APPEAR ON ONLY ONE END. CEMENT END PLATE (3/8" X 1/2") ON BOTH ENDS OF THE CAR. CEMENT LARGE (3/8" X 1/2") AND SMALL (1/4" X 3/8") PLATES ON DOORS. REFER TO PICTURE FOR PROPER POSITION. ON DOUBLE DOOR CARS, CUT CORNER OF OVERLAP SO DOORS WILL CLOSE COMPLETELY WITH CENTER PIN IN PLACE IN THE DOOR GUIDE. ASSEMBLE METAL SIDES, DOOR GUIDES, DOORS AND ENDS. RIVITED EDGE OF THE ENDS IS TO FIT OVER THE SIDES.

4 MOUNTING METAL ROOF, RIBS, RUNNING BOARD AND END PLATFORMS

DRILL 1/32" HOLES IN THE ROOF FOR THE CORNER PLATFORM, SUPPORT AND CORNER GRAB. MOUNT METAL ROOF RIBS AS SHOWN ON DRAWING. THE ENDS OF THE METAL ROOF RIBS MAY BE FOLDED OVER THE EDGE OF THE ROOF AND CEMENTED IN PLACE OR PIERCED WITH A 1/32" DRILL TO ACCEPT PINS. MOUNT ROOF IN PLACE WITH END OF ROOF OVERLAPPING CAR END. NAIL ROOF WALK, END PLATFORMS, CORNER PLATFORMS WITH SUPPORTS AND CORNER GRABS IN PLACE.

5 MOUNTING THE SPRUNG TRUCKS, AB BRAKE SYSTEM AND DRAFT GEAR

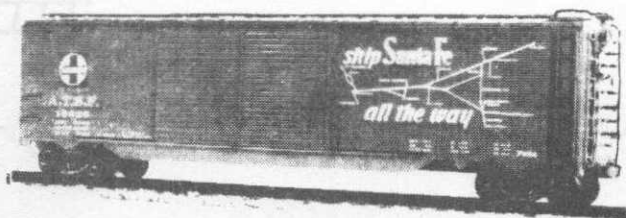
DRILL HOLES IN THE FLOOR FOR INSERTING THE LUGS ON THE AB BRAKE PARTS. CEMENT THESE IN PLACE. ASSEMBLE SPRUNG DRAFT GEAR AND NAIL TO THE FLOOR OF THE CAR, MAKING CERTAIN THAT IT IS CENTERED. ATTACH THE SPRUNG TRUCKS USING LONG 4-40 SCREWS AND COIL SPRINGS.

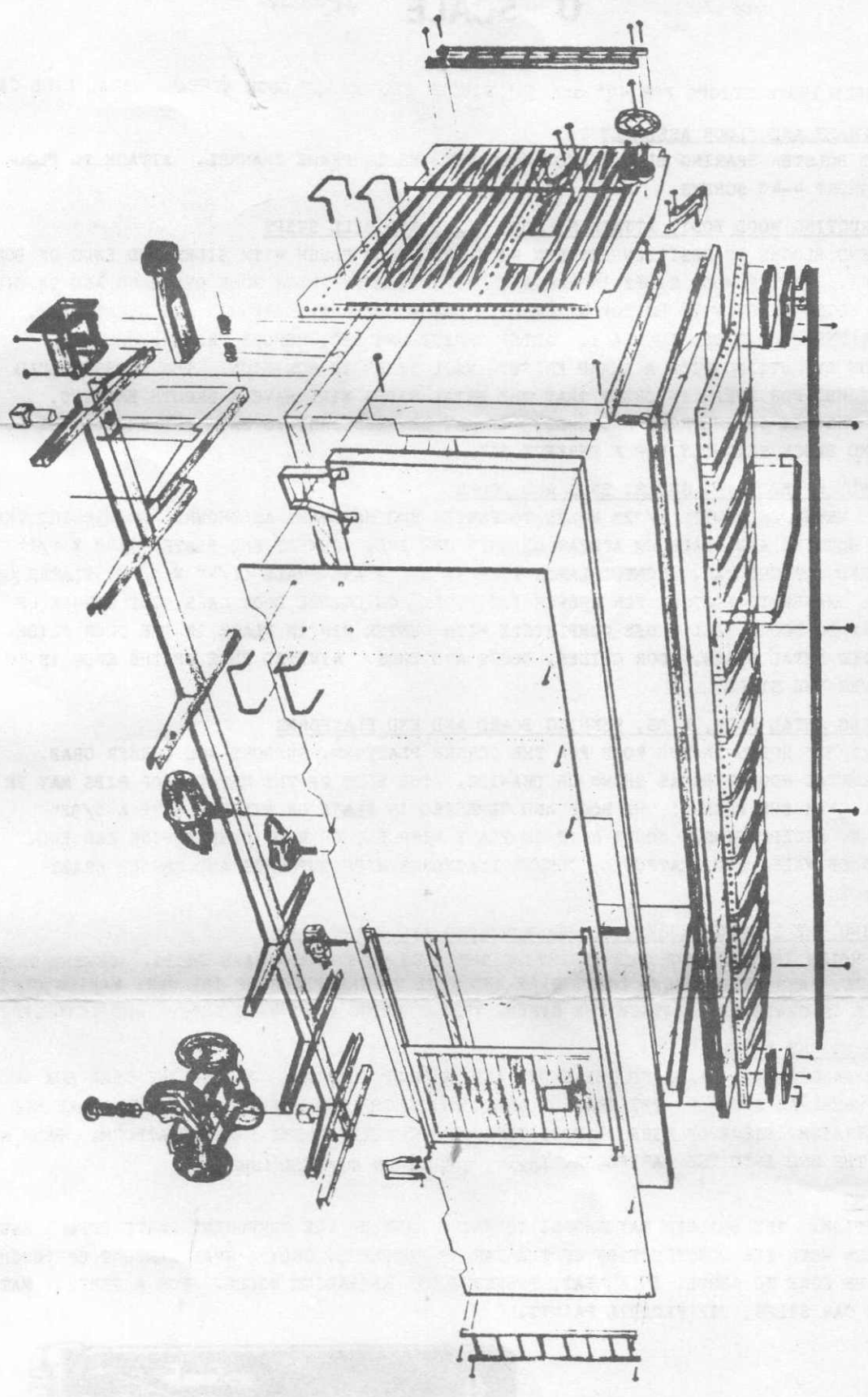
6 FINISHING THE MODEL

ATTACH LADDERS AND GRABS TO THE SIDES AND ENDS OF THE CAR. FASTEN THE GEAR BOX AND BRAKE WHEEL AS SHOWN ON THE DRAWING AND INSTALL THE BRAKE PLATFORM. THE BRAKE ROD IS A STRAIGHT PIECE OF WIRE SLIPPED THROUGH THE HOLE IN THE BRAKE PLATFORM. BEND AND FORCE THE END INTO THE CAR FLOOR. (BRAKE ROD WIRES NOT FURNISHED)

7 PAINTING

SUGGESTION: THE BUILDER MAY CHOOSE TO PAINT MANY OF THE COMPONENT PARTS BEFORE ASSEMBLY AND THEN WHEN THE CONSTRUCTION OF THE CAR IS COMPLETE, ONLY A SMALL AMOUNT OF TOUCHUP NEEDS BE DONE TO RESULT IN A NEAT, PROFESSIONAL APPEARING MODEL. FOR A PERFECT MATCH OF THE CAR SIDES, USE FLOQUIL PAINTS.





ATHEARN METAL LINE
O SHAFT

PACIFIC
The Standard of
Quality