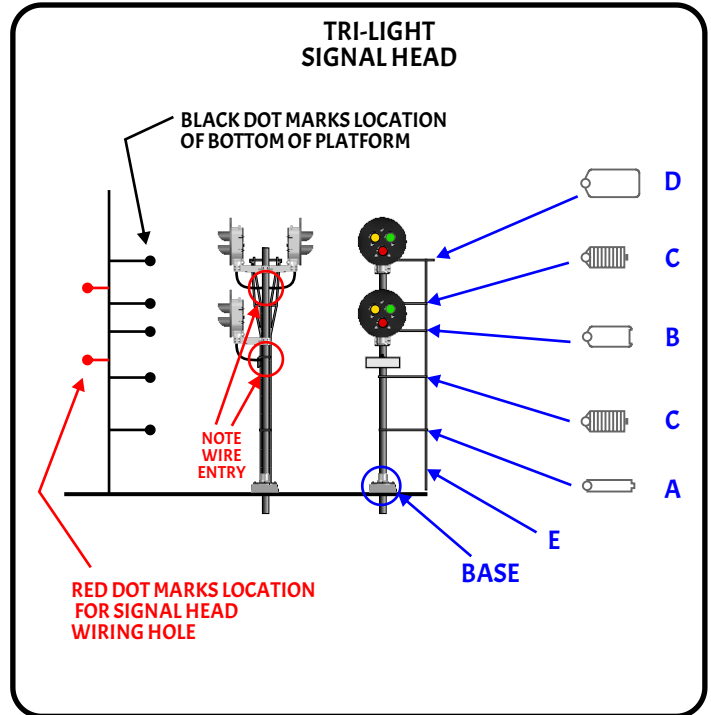
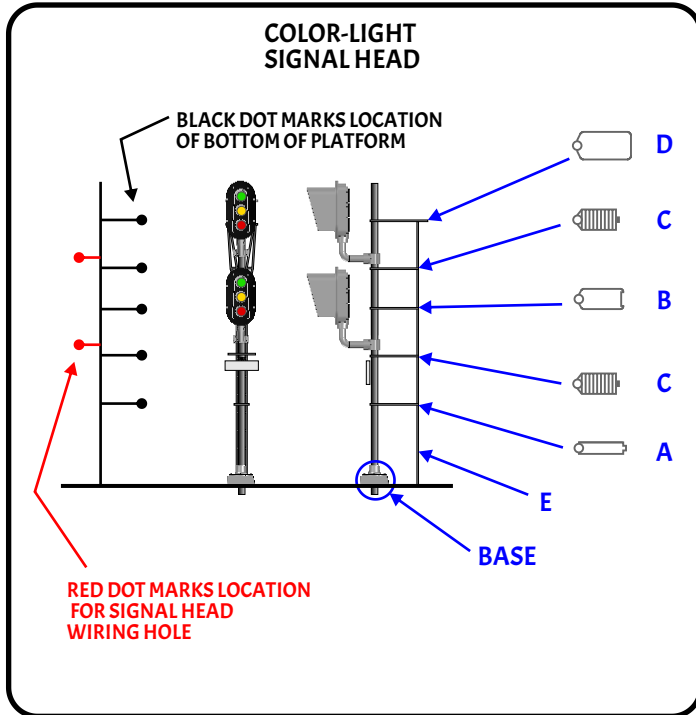
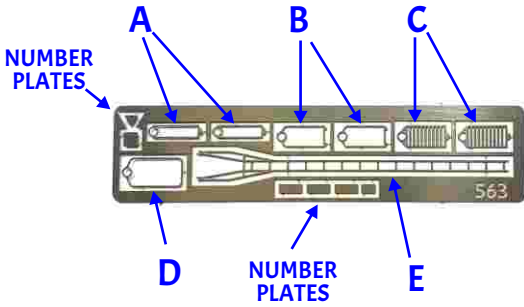
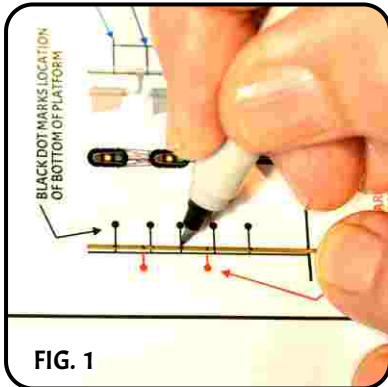


PARTS



SUGGESTED ASSEMBLY

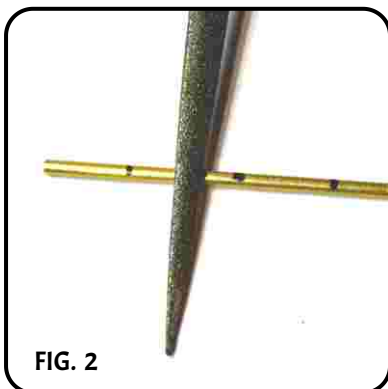


WE RECOMMEND THAT YOU READ THROUGH THE ASSEMBLY STEPS AND STUDY THE DIAGRAMS CLOSELY TO FAMILIARIZE YOURSELF WITH OUR SUGGESTED ASSEMBLY METHOD.

LAY THE BRASS MAST/TUBE DIRECTLY ON THE SUPPLIED DRAWINGS FOR USE AS A TEMPLATE AND MARK THE LOCATIONS OF EACH OF THE ASSEMBLY COMPONENTS (FIG. 1) INCLUDING THE LOCATION(S) FOR THE SIGNAL HEAD.

THE DRAWINGS ABOVE ARE IN N SCALE (1:160) AND CAN BE USED AS A PATTERN FOR MARKING.

THESE ARE ONLY SUGGESTED LOCATIONS SINCE DIFFERENT RAILROAD LINES MAY HAVE DIFFERENT CONFIGURATIONS FOR THE LADDER/MAST ASSEMBLIES.

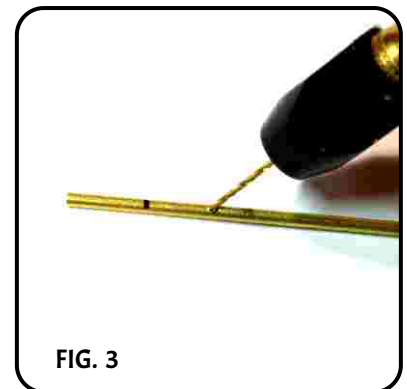


USING THE EDGE OF A DIAMOND NEEDLE FILE, SCRIBE THE LOCATION FOR THE SIGNAL HEAD WIRES TO ENTER THE MAST (FIG. 2). THIS WILL MAKE IT EASIER TO DRILL THROUGH THE ROUND BRASS TUBE.

DRILL THROUGH WITH A .020" DRILLBIT.

USE THE DRILL BIT AS A REAMER AND SMOOTH THE INSIDE EDGES OF THE DRILLED HOLE TO HELP PREVENT DAMAGE TO THE INSULATION OF THE WIRE (FIG. 3).

SIGNAL HEADS CAN BE ATTACHED AFTER LADDER ASSEMBLY IS COMPLETE



APPLY SEVERAL DROPS OF SUPER GLUE TO A PLASTIC SURFACE FOR A RESERVOIR AND USE A SHORT LENGTH OF FINE WIRE TO DIP OUT A TINY DROP OF GLUE (FIG. 4).

USE A METAL OR WOOD BLOCK AND A SMALL PIECE OF CLAY TO HOLD THE MAST ABOVE THE WORK SURFACE (FIG. 5).

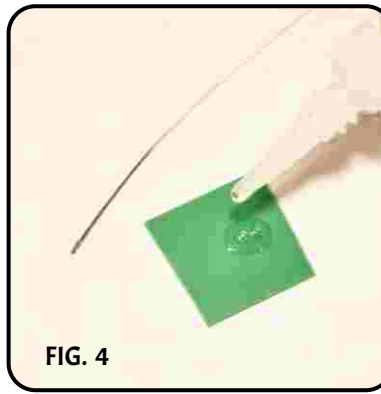


FIG. 4

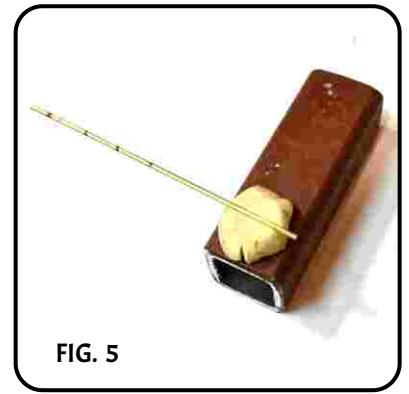


FIG. 5

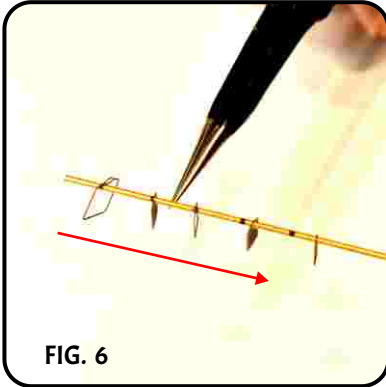


FIG. 6

SLIDE EACH LADDER PARTS OF THE MAST ASSEMBLY IN ORDER ACCORDING TO THE DRAWING. (FIG. 6).

ALIGN EACH LADDER PART ON THEIR PREVIOUSLY MARKED POSITIONS ON THE MAST (FIG. 7).

HANGING FROM THE MAST IN POSITION SHOULD ALLOW THEM TO ALIGN SQUARELY.

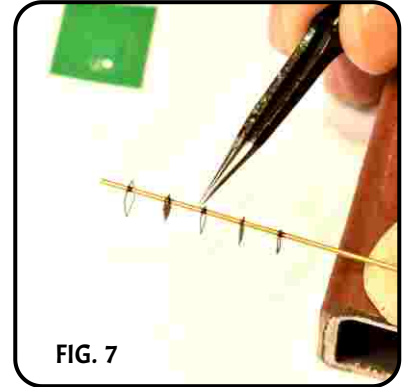


FIG. 7

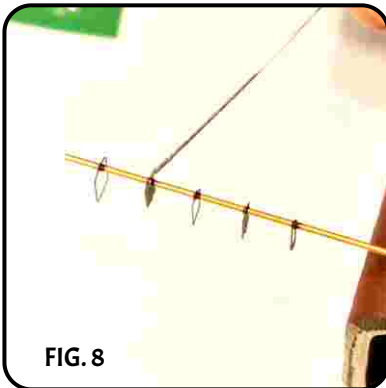


FIG. 8

WITH EACH LADDER PART IN POSITION AND HANGING LOOSELY IN THE VERTICAL POSITION, USE A THIN WIRE TO APPLY A TINY DROP OF SUPER GLUE FROM THE RESERVOIR TO THE MAST AND COMPONENT JOINT ON THE TOP OF THE TUBE (FIG. 8).

A TINY DROP OF SUPER GLUE ACCELERATOR CAN BE USED BUT IS NOT NECESSARY.

ALLOW THIS TINY GLUE JOINT TO HARDEN.

THE COMPONENTS CAN BE MANIPULATED CAREFULLY ONCE THE GLUE HAS DRIED TO ALLOW YOU TO SQUARE THEM UP.

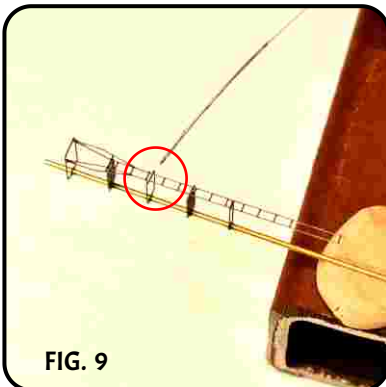


FIG. 9

AFTER SQUARING UP THE LADDER PARTS, TURN THE ASSEMBLY OVER SO THE COMPONENTS ARE VERTICAL.

CUT THE LADDER TO LENGTH ACCORDING TO THE DRAWING AND LAY IT IN POSITION ON THE LADDER RAILINGS AND BRACES.

AGAIN USING A TINY DROP OF SUPER GLUE, CAREFULLY TOUCH EACH JOINT AND ALLOW TO DRY (FIG. 9).

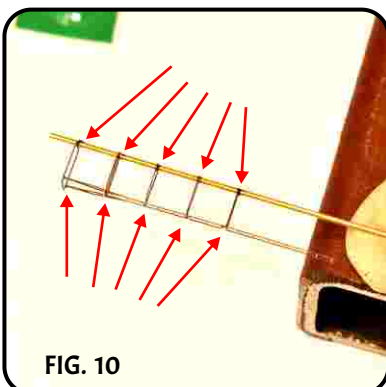


FIG. 10

ONCE THIS INITIAL GLUEING HAS DRIED, ADD MORE GLUE TO EACH JOINT USING THE WIRE AND THE GLUE RESERVOIR (FIG. 10).

APPLY THE BASE ASSEMBLY AT "GROUND" LEVEL.

FINALLY, PRIME AND PAINT THE ASSEMBLY. WE RECOMMEND A LAQUER BASED PRIMER AND A SPRAY APPLICATION OF THE FINAL COAT OF PAINT.