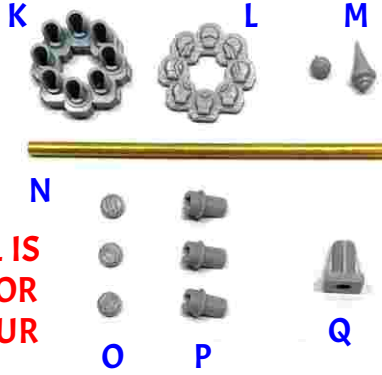


**NOTE:**  
**THIS SIGNAL IS**  
**DESIGNED FOR**  
**USE WITH OUR**  
**603 LEDs**

**PARTS**

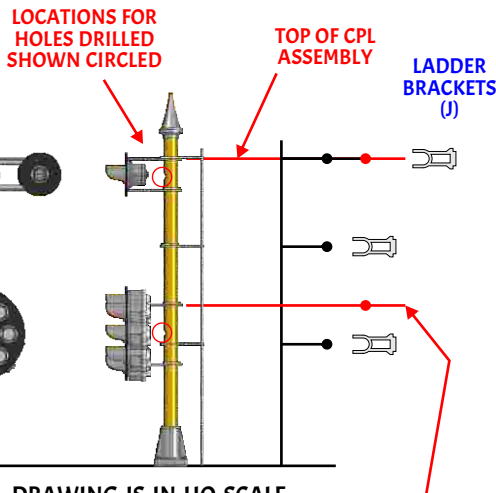


**PREPARING THE MAST TUBE**

PREPARE THE MAST TUBE FOR THE LED WIRES BY FIRST FILING THE LOCATION WITH A "V" SHAPED NEEDLE FILE. THIS WILL HELP IN DRILLING THE ROUTING HOLE FOR THE WIRES. USE A 1/32" (OR SLIGHTLY LARGER) DRILL BIT TO DRILL INTO THE TUBE. SMOOTH THE OPENING WITH A NEEDLE FILE TO PREVENT DAMAGE TO THE MAGNET WIRE INSULATION.



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



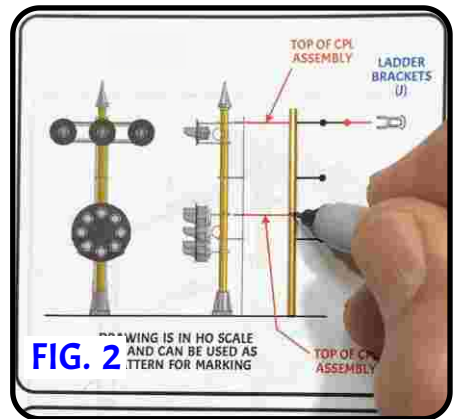
**FIG. 1**

DRAWING IS IN HO SCALE (1:87) AND CAN BE USED AS A PATTERN FOR MARKING

TOP OF CPL ASSEMBLY

LAY THE BRASS MAST TUBE DIRECTLY ON THE SUPPLIED DRAWINGS AND MARK THE LOCATIONS FOR THE THE LADDER BRACKETS AND TOP OF THE CPL SIGNAL HEAD ASSEMBLIES (FIG. 2). ALSO MARK THE LOCATIONS OF THE HOLES TO BE DRILLED IN THE MAST TUBE.

DRILL AND PREPARE THE MAST TUBE AS SHOWN ABOVE.



**FIG. 2**

CAREFULLY FOLD THE CPL SIGNAL BRACKET AS SHOW IN FIG. 3. BRACKETS FOR ONE, TWO AND THREE HEADS ARE INCLUDED. APPLY A TINY DROP OF CA GLUE TO THE FOLDED ELBO JOINT. THIS WILL STRENGTHEN THE ASSEMBLY.

INSERT THE HEAD INTO THE BRACKET USING THE LOCATOR NOTCH AND TAB AS SHOWN. APPLY CA GLUE TO HOLD IT IN PLACE. SEE "MICRO-GLUEING" BELOW (FIG. 4).

INSTALL THE LED USING MICRO KRISTAL KLEAR. ROUTE THE WIRES OUT THE BASE OF THE SIGNAL HEAD, TWIST INTO A CABLE, AND ROUTE THROUGH THE PREVIOUSLY DRILLED HOLE IN THE MAST (SEE ABOVE). GLUE THE SIGNAL HEAD BACK (L) USING KRISTAL KLEAR.

GLUE THE SHIELD (H) IN PLACE USING CA GLUE.

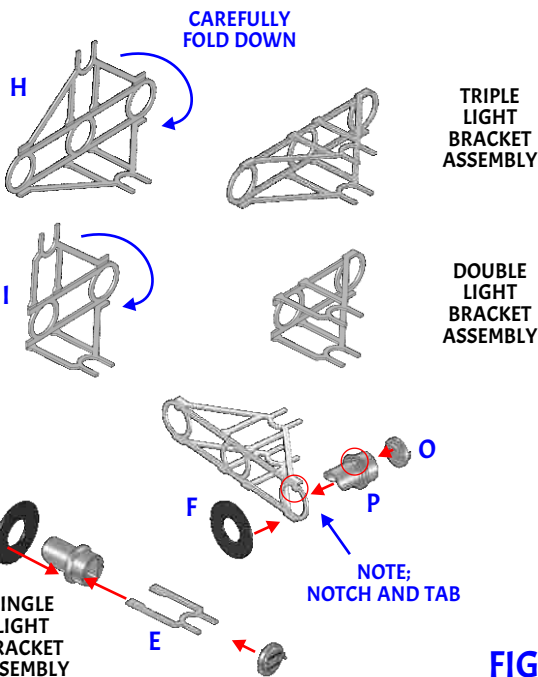
FOR THE SINGLE LIGHT HEAD, SLIDE THE BRACKET (E) INTO SLOTS ON THE SIDES OF THE SIGNAL HEAD. INSTALL THE LED USING KRISTAL KLEAR AND ROUTE THE WIRES OUT THE BOTTOM OF THE SIGNAL HEAD. TWIST THE LED WIRES INTO A CABLE AND ROUTE THROUGH THE PREVIOUSLY PREPARED HOLE IN THE MAST TUBE.

**MICRO-GLUEING**

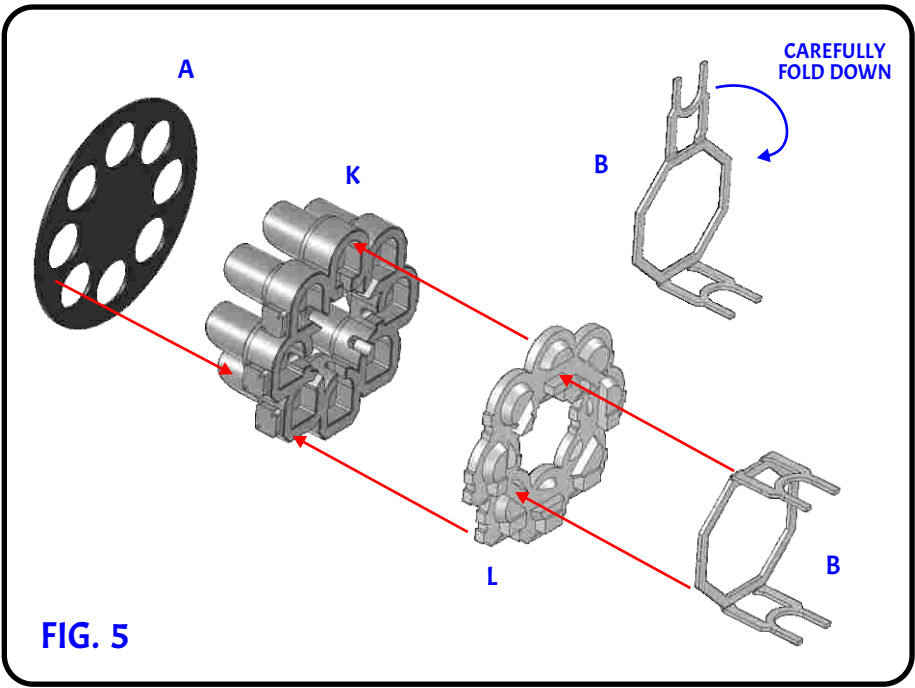
APPLY SEVERAL DROPS OF SUPER GLUE TO A PLASTIC SURFACE FOR A RESERVOIR AND USE A SHORT LENGTH OF FINE WIRE TO DIP OUT A TINY DROP OF GLUE (FIG. 4).



**FIG. 4**



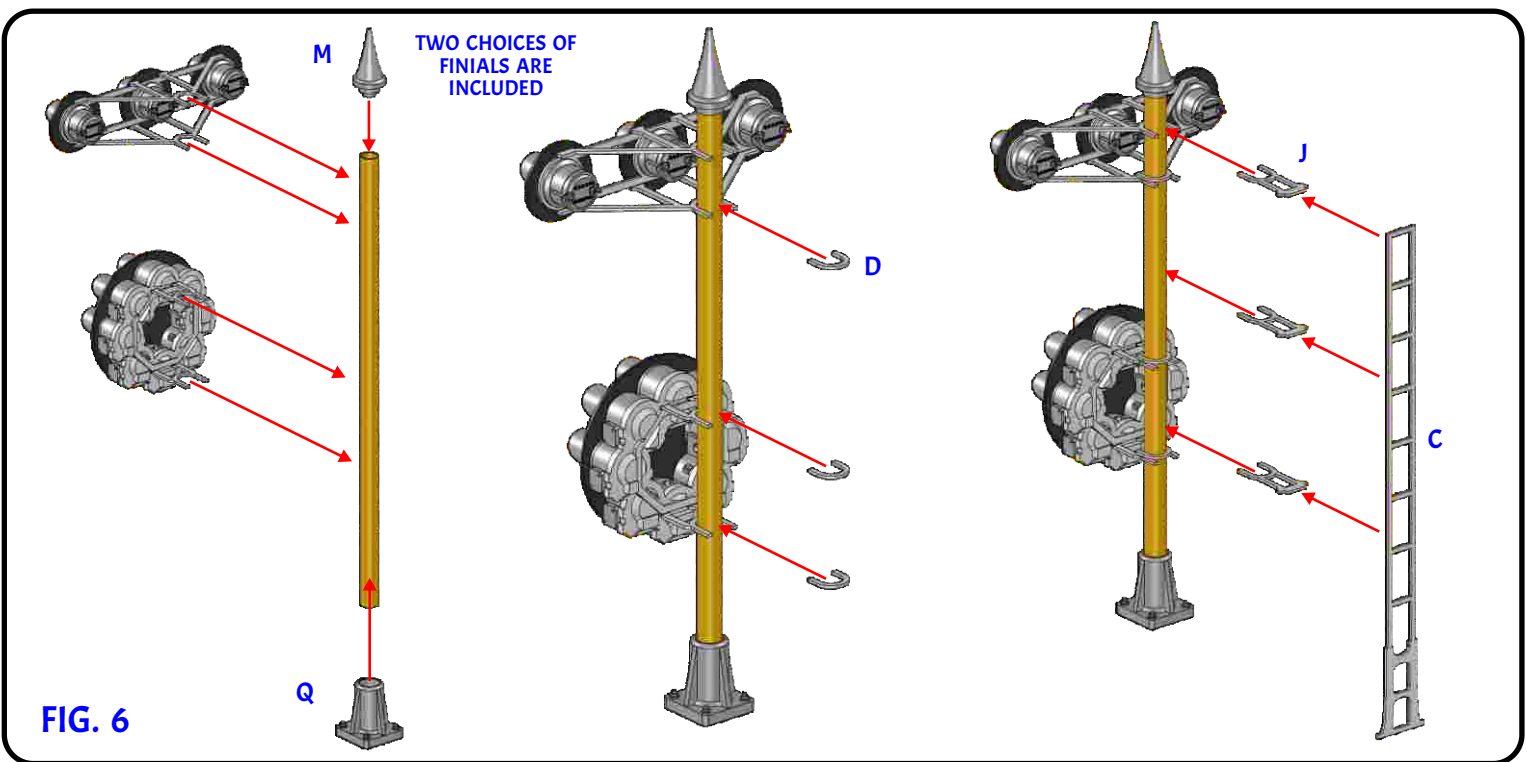
**FIG. 3**



**FIG. 5**

CAREFULLY FOLD THE CPL SIGNAL HEAD BRACKET (B) AS SHOWN IN FIG. 5. INSTALL THE LEDs INTO THE HEAD (K) AND ROUTE THE MAGNET WIRES THROUGH THE INDIVIDUAL ROUTING HOLES AND OUT THE REAR AT THE CENTER OF THE BACK (L). ATTACH THE SIGNAL BACK USING KRISTAL KLEAR TO ALLOW REMOVAL LATER IF NECESSARY. THE SHIELD AND MOUNTING BRACKET CAN BE MOUNTED USING CA GLUE.

CAREFULLY TWIST THE LED WIRES INTO A CABLE AND ROUTE OUT THROUGH THE BACK ASSEMBLY, INTO THE PREVIOUSLY PREPARED HOLE IN THE MAST AND DOWN THE MAST TUBE.



**FIG. 6**

POSITION THE TOP CPL SIGNAL HEAD ASSEMBLY INTO POSITION AT THE PREVIOUSLY MARKED LOCATION ON THE MAST WHILE ROUTING THE LED WIRE CABLE IN AND DOWN THE MAST TUBE (FIG. 6). GLUE IN PLACE USING CA GLUE.

POSITION THE BOTTOM CPL ASSEMBLY ONTO THE MAST WHILE ROUTING THE LED WIRE CABLE IN THE PREVIOUSLY PREPARED HOLE AND DOWN THE MAST TUBE. GLUE IN PLACE USING CA GLUE.

REAR MOUNTS (D) FOR THE BRACKETS ARE SUPPLIED FOR COSMETIC PURPOSES ONLY AND CAN BE USED OPTIONALLY.

APPLY TINY AMOUNTS OF CANOPY GLUE TO THE YOKE LOCATION ON EACH OF THE LADDER BRACKETS (J). ALLOW THE CANOPY GLUE TO DRY COMPLETELY AND THEN ATTACH THEM TO THEIR PREVIOUSLY MARKED LOCATIONS ON THE MAST TUBE. THE LADDER CAN NOW BE PLACED IN POSITION - NOTE THAT THE BASE OF THE LADDER SHOULD BE FLUSH WITH THE BASE OF THE MAST BASE. USE MICRO-GLUEING TO ATTACH THE LADDER TO THE LADDER BRACKETS WITH CA GLUE.

