

12

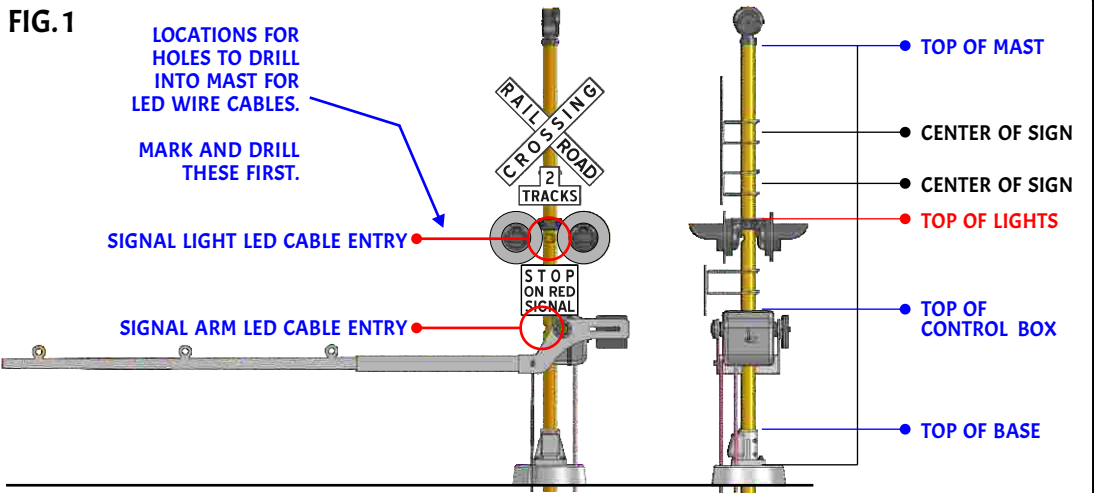
WE HIGHLY RECOMMEND THAT YOU READ THROUGH THE ASSEMBLY STEPS AND STUDY THE DIAGRAMS AND NOTES CLOSELY TO FAMILIARIZE YOURSELF WITH OUR SUGGESTED ASSEMBLY METHOD.

GETTING STARTED

THIS GRADE CROSSING SIGNAL CAN BE BUILT WITH OR WITHOUT THE CROSSING ARM AND CAN BE LIGHTED USING 603 SIZE LEDS IN THE SIGNAL HEAD AND 402 LEDS IN THE CROSSING ARM (LEDS SOLD SEPARATELY).

THE CROSSING ARM CAN BE ANIMATED USING ONE OF TWO DIFFERENT METHODS. A SUPPLIED PUSH-ROD CAN BE USED AND CONTROLLED WITH AN APPROPRIATE ANIMATING CIRCUIT. ALTERNATELY, THE ANIMATION CAN BE ACHIEVED WITH AN INTERNAL CAM AND CLEVIS ASSEMBLY. THE ANIMATING CIRCUIT IS NOT INCLUDED.

FIG. 1

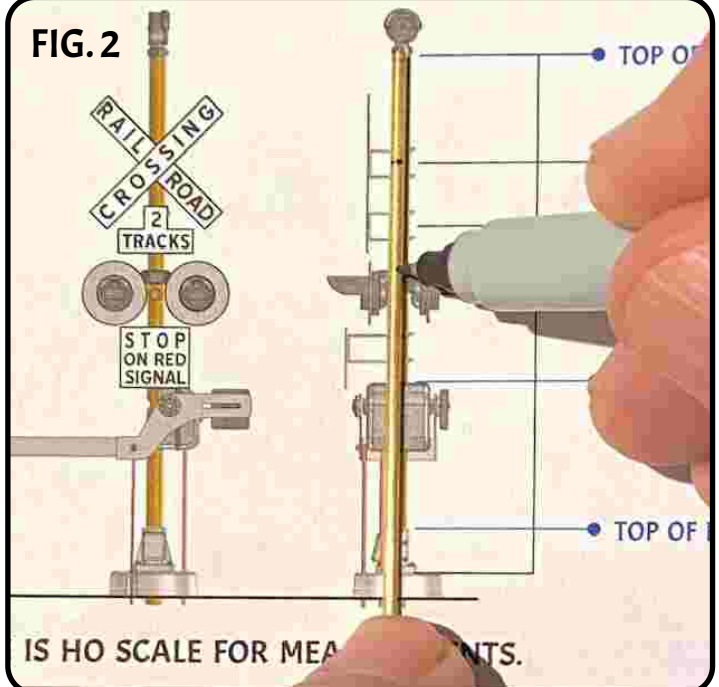


THIS DRAWING IS HO SCALE FOR MEASUREMENTS.

LAY THE BRASS MAST TUBE DIRECTLY ON THE SUPPLIED SCALE DRAWING (FIG. 1) AND MARK THE LOCATIONS FOR THE TOP OF THE CONTROL BOX, LIGHTS, SIGN CENTERS AND BASE (FIG. 2)

PARTS AND ASSEMBLIES CAN BE ATTACHED TO THE MAST WITH TINY DROPS OF CANOPY GLUE AND THEN PERMANENTLY ATTACHED USING TINY DROPS OF CA GLUE TO HOLD THEM IN PLACE.

FIG. 2



THIS DRAWING IS HO SCALE FOR MEASUREMENTS.

SEE "MICRO-GLUEING" BELOW

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. 3).

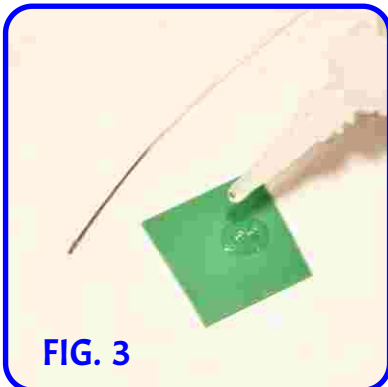


FIG. 3

STEP 1

INSERT 1/32" SHAFT LEAVE EXCESS ON BOTH SIDES

10

DRILL THROUGH WITH 1/32" BIT IF NECESSARY

NOTE: SMOOTH BOTH ENDS FOR FITTING SHAFT FLANGE (3)

11

USE A 'V' SHAPED NEEDLE FILE TO CREATE A SMALL GROOVE AT THE LOCATION MARKED FOR THE WIRE CABLE.

DRILL THROUGH WITH A 1/32" BIT AND SMOOTH THE EDGES OF THE HOLE TO PREVENT DAMAGE TO THE LED WIRE CABLE.

DO THIS IN TWO LOCATIONS.

HOLE DRILLED IN MAST FOR LED WIRE CABLE

GLUE IN PLACE ON MAST AT PREVIOUSLY MARKED LOCATION WITH SUPER GLUE

DRILL ONLY IF USING SIGNAL ARM LEDS

STEP 2 IF NECESSARY, CAREFULLY STRAIGHTEN AND ALIGN THE LIGHT FIXTURE (1) THEN DRILL THROUGH THE BACK WITH A .02" OR .025" DRILL TO ALLOW THE LED WIRES TO PASS THROUGH THE FIXTURE AS INDICATED. USE CANOPY GLUE TO HOLD THE LEDS IN THE FIXTURE HEAD,

ROUTE .603 LED (SOLD SEPARATELY) THROUGH DRILLED HOLE AND DOWN.

1

DRILL THROUGH WITH .025" DRILL (4 PLACES)

STEP 3

C

STEP 4

A12, A16, A20

E

F

FOLD AS SHOWN

4

GENTLY PULL ARMS APART AND POSITION OVER ARM SHAFT.

ROUTE CABLE ASSEMBLY FOR .402 LEDS (SOLD SEPARATELY) THROUGH PREVIOUSLY DRILLED HOLE AND DOWN.

6

3

SHAFT FLANGE (3) SHOULD PUSH TO FIT - DRILL WITH 1/32" BIT (IF NECESSARY) WHILE STILL ON THE SPRUE DO NOT GLUE

STEP 5

OPTIONAL:
402 LEDs (NOT INCLUDED)
CAN BE ADDED TO THE
SIGNAL ARM AS SHOWN.

NOTE:
402 LEDs ADDED AS SHOWN
MAY AFFECT PLACEMENT
OF DECAL ON THIS
SIDE.

INSTALL THE 402 LEDs
WITH CANOPY GLUE

402 LEDs
(NOT INCLUDED)

APPLY DECAL TO
WHITE PAINTED
SIGN

MAST BRACKETS
(IN PLACE)

BRACKET
BACK (K)
(IN PLACE)

B,G
MAST
BRACKETS

ONCE FOLDED, APPLY A
TINY DROP OF SUPER GLUE
TO FOLDED JOINT FOR
STRENGTH

STEP 6

5

DRILL .016"
(#78 DRILL)
IF NECESSARY
FOR PUSH ROD

GLUE BASE (7)
IN PLACE ON MAST
AT PREVIOUSLY
MARKED LOCATION
WITH SUPER GLUE

12

7

INSERT CLEVIS PIN INTO
HOLE OF SIGNAL ARM
AND BURNISH USING
PLIERS.

SEE THE BREAK-AWAY
BASE INSTRUCTIONS
NEXT PAGE

STEP 7

HIGH WIND
BRACKET (L)

20' SIGNAL ARM (A20)
SHOWN

PAINT
WHITE

SIGN DECAL

CROSSING	1	TRACKS	CROSSING
RAILROAD	2	RAILROAD	CROSSING
RAILROAD	3	TRACKS	CROSSING
RAILROAD	4	TRACKS	CROSSING

**PAINT THE PHOTO-ETCHED SIGNS WHITE
BEFORE ATTACHING THE CLEAR DECALS**

**WE RECOMMEND TAMIYA
WHITE PRIMER FOR THIS**

THE CLEAR BACKED WATERSLIDE DECALS
ARE NOT PRE-CUT AND SHOULD BE CUT
INSIDE THE FAINT GRAY OUTLINES. THE
SIGN OUTLINES ARE ADJACENT TO EACH
OTHER TO MINIMIZE THE NUMBER OF CUTS
NEEDED.

**SOAK 30-45 SECONDS, FACE UP, FLOATING ON
SURFACE OF ROOM TEMP. WATER.**

**SLIDE THE DECAL OFF THE BACKING PAPER
ONTO THE SURFACE OF THE PART**

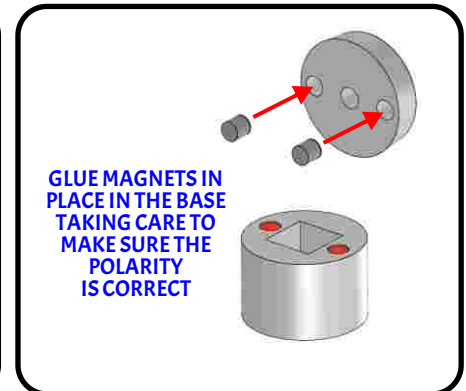
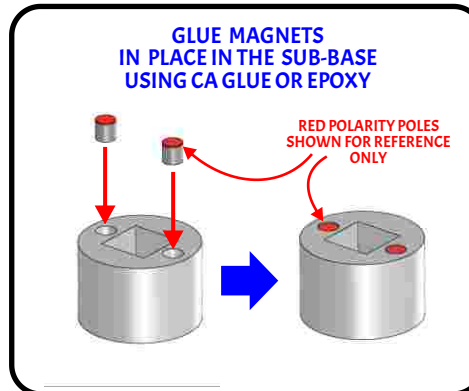
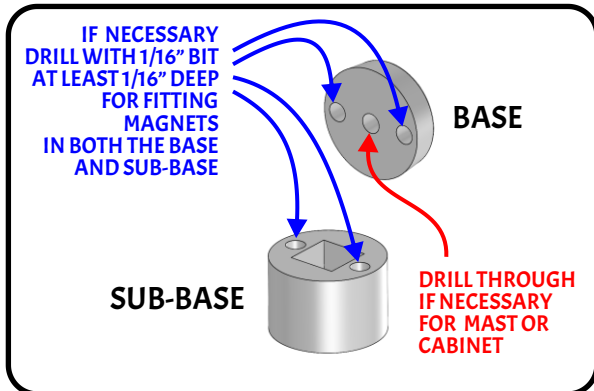
PAINTING AND FINISHING

WE RECOMMEND PAINTING THE MODEL 10 CROSSING SIGNAL AFTER COMPLETION EXCEPT FOR THE CROSSING ARM ASSEMBLY. IT SHOULD BE PAINTED BEFORE ATTACHING TO THE MAST ASSEMBLY.

WE RECOMMEND AN ALUMINUM SILVER PAINT FOR THE OVERALL COLOR WITH FLAT BLACK HOODS AND HOOD SHIELDS. TO PREVENT PAINT COVERING THE ALREADY INSTALLED LED_s, COVER THE LED_s WITH A TINY BIT OF CLAY OR MASKING TAPE.

INSTRUCTIONS ARE SHOWN BELOW FOR USING OUR BREAK-AWAY SIGNAL BASE (SKU#2365) WITH THIS GRADE CROSSING SIGNAL IF YOU DECIDE TO USE THIS.

BREAK-AWAY BASE ASSEMBLY



CUT THE MAST/TUBE FLUSH WITH THE BOTTOM OF THE BASE TO ALLOW THE SIGNAL ASSEMBLY TO TIP OVER WITHOUT BEING DAMAGED.

THE SUB-BASE CAN BE MOUNTED AT OR JUST BELOW "GROUND" LEVEL WITH THE BASE SITTING AT "GROUND" LEVEL

WATERSLIDE DECALS:

Visit our [painting and finishing tips on our website](#)

WATERSLIDE DECALS ARE NOT PRE-CUT AND MUST BE CUT AS CLOSE TO THE EDGE OF THE GRAPHIC AS POSSIBLE. SOAK 30-45 SECONDS, FACE UP, FLOATING ON SURFACE OF ROOM TEMP. WATER.

SLIDE THE DECAL OFF THE BACKING PAPER ONTO THE SURFACE OF THE PART