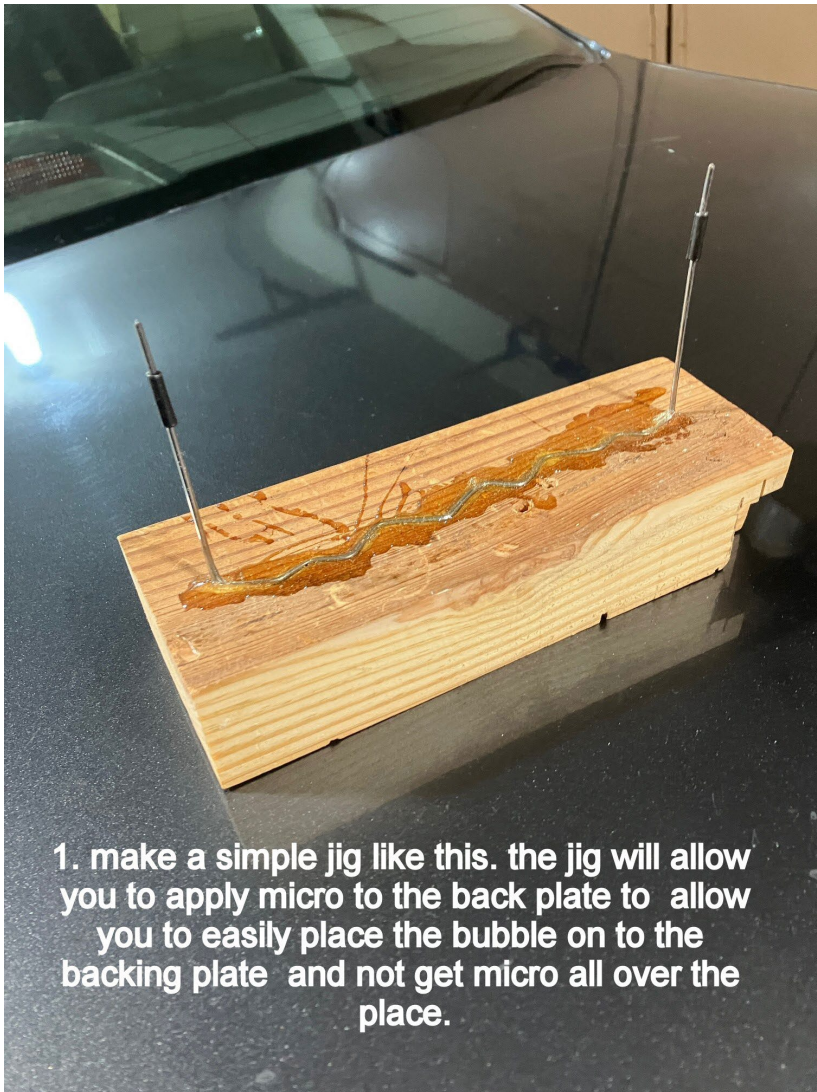


From: [vance atkinson](mailto:vance.atkinson)
To: preston.kavanagh@gmail.com
Subject: FUEL GA PICTURE BOOK INSTRUCTIONS
Date: Saturday, December 30, 2023 5:06:32 PM

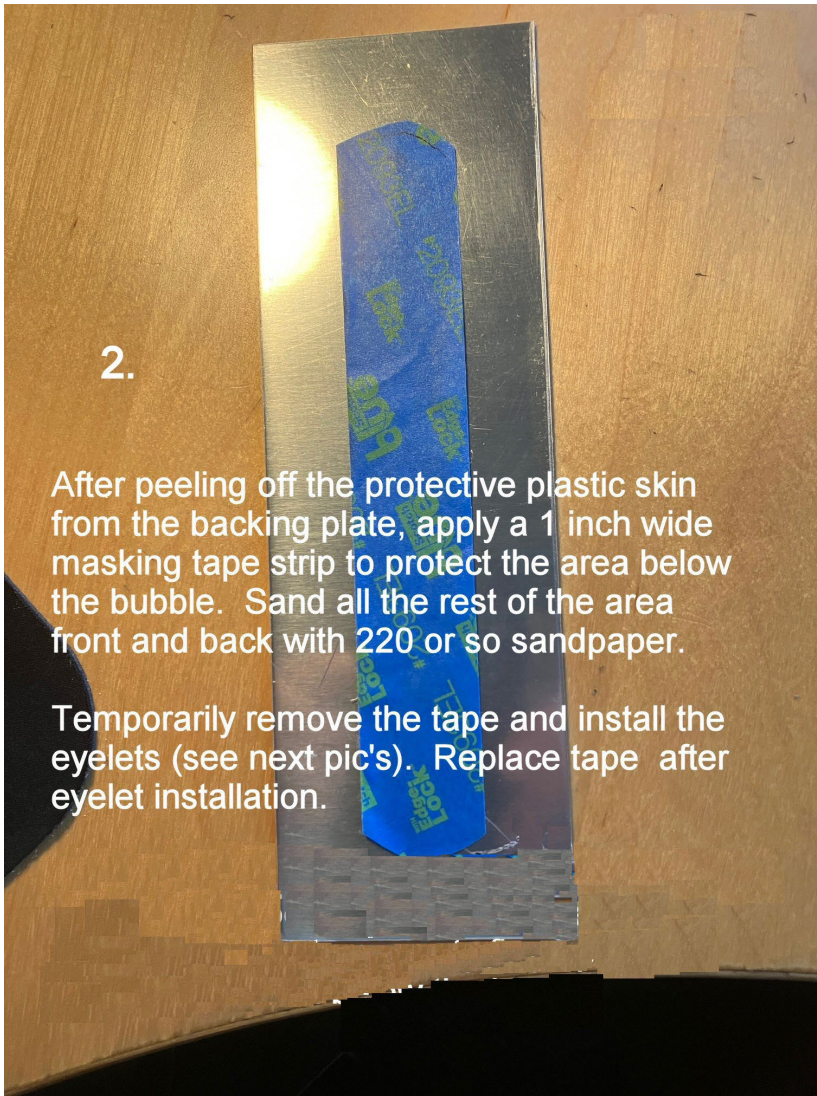


1. make a simple jig like this. the jig will allow you to apply micro to the back plate to allow you to easily place the bubble on to the backing plate and not get micro all over the place.

2.

After peeling off the protective plastic skin from the backing plate, apply a 1 inch wide masking tape strip to protect the area below the bubble. Sand all the rest of the area front and back with 220 or so sandpaper.

Temporarily remove the tape and install the eyelets (see next pic's). Replace tape after eyelet installation.





2A.

sand back of bubble...
can hand sand, disc sand, belt sand...

2B

SANDING BUBBLE,
FRONT SIDE.... CAN HAND
SAND OR USE BLOCK SANDING.



Apply glue here

3.

Apply a drop of medium or thick instant glue on eyelet shank, use an X-acto blade and press the crown down onto the backing plate.....this will make a neat and strong bond without the glue running all over the plate.

Do one eyelet at a time...see next pic for straightness of protruding shank

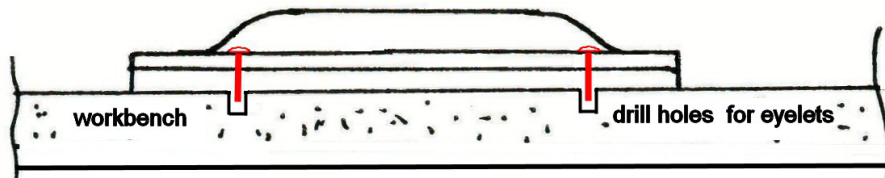
4.

**JUST MAKE SURE THE EYELETS
HANG STRAIGHT DOWN AND ARE
NOT CROOKED**

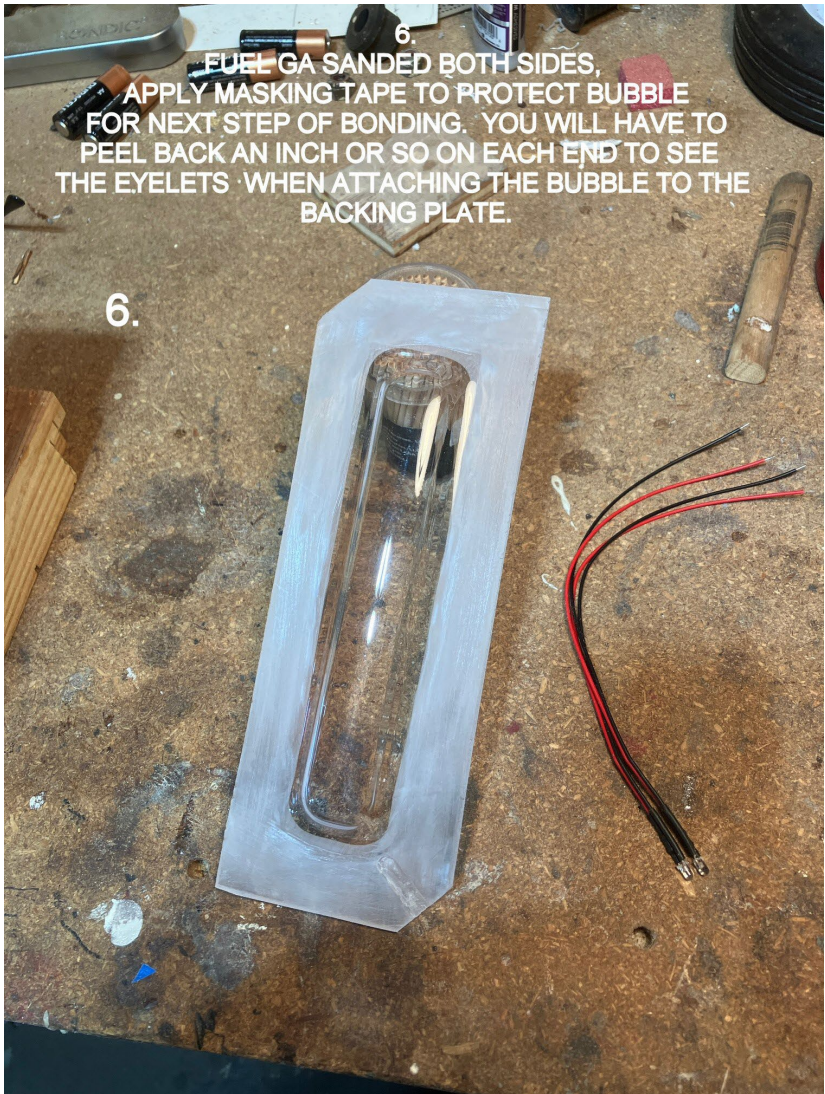




5A



Once you have bonded the eyelets to the backing plate you can drill two holes in your workbench to be able to work on the gauge flat on the work area without worrying about bending or brakeing loose the eyelets.... I use it for bonding the LED's into their gooves, makes it easy.



6.
FUEL GA SANDED BOTH SIDES,
APPLY MASKING TAPE TO PROTECT BUBBLE
FOR NEXT STEP OF BONDING. YOU WILL HAVE TO
PEEL BACK AN INCH OR SO ON EACH END TO SEE
THE EYELETS WHEN ATTACHING THE BUBBLE TO THE
BACKING PLATE.

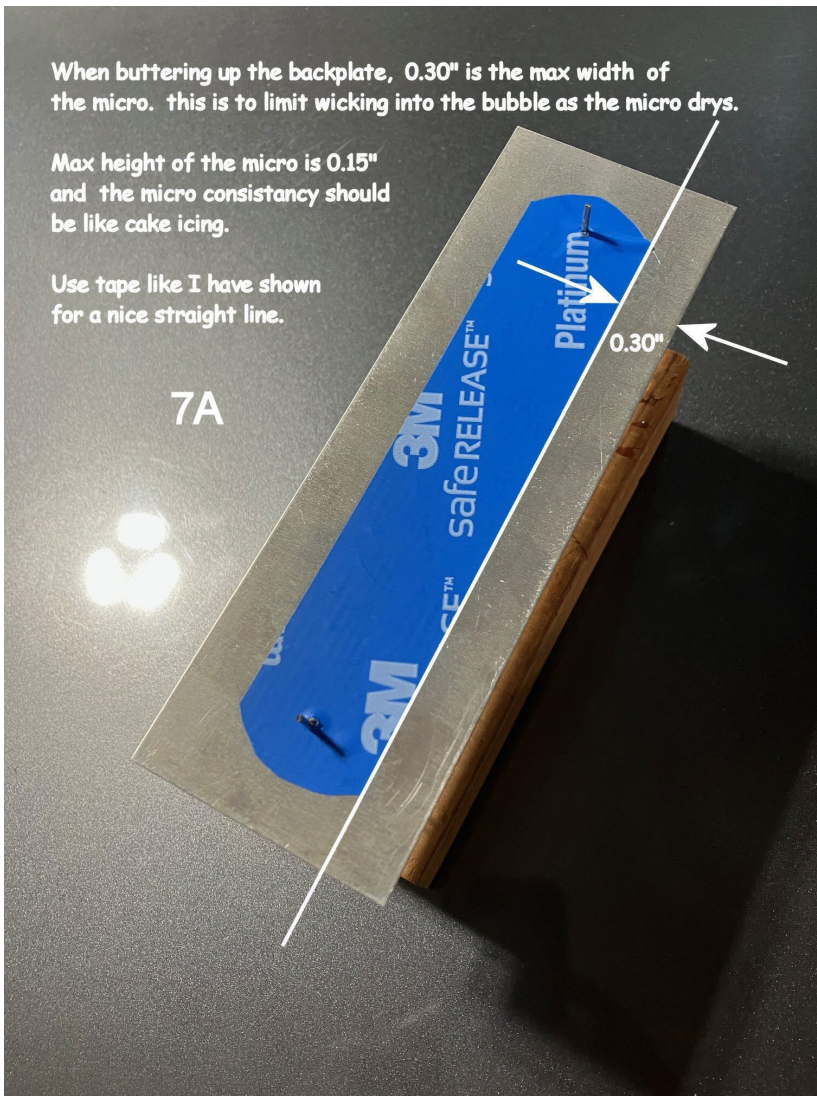
6.

When buttering up the backplate, 0.30" is the max width of the micro. this is to limit wicking into the bubble as the micro dries.

Max height of the micro is 0.15" and the micro consistency should be like cake icing.

Use tape like I have shown for a nice straight line.

7A

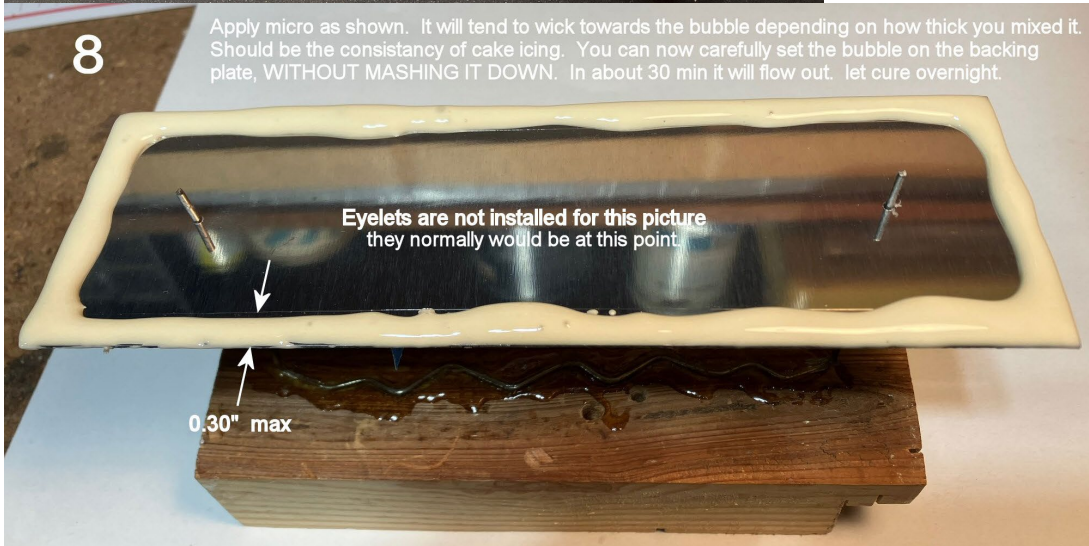


8

Apply micro as shown. It will tend to wick towards the bubble depending on how thick you mixed it. Should be the consistency of cake icing. You can now carefully set the bubble on the backing plate, WITHOUT MASHING IT DOWN. In about 30 min it will flow out. let cure overnight.

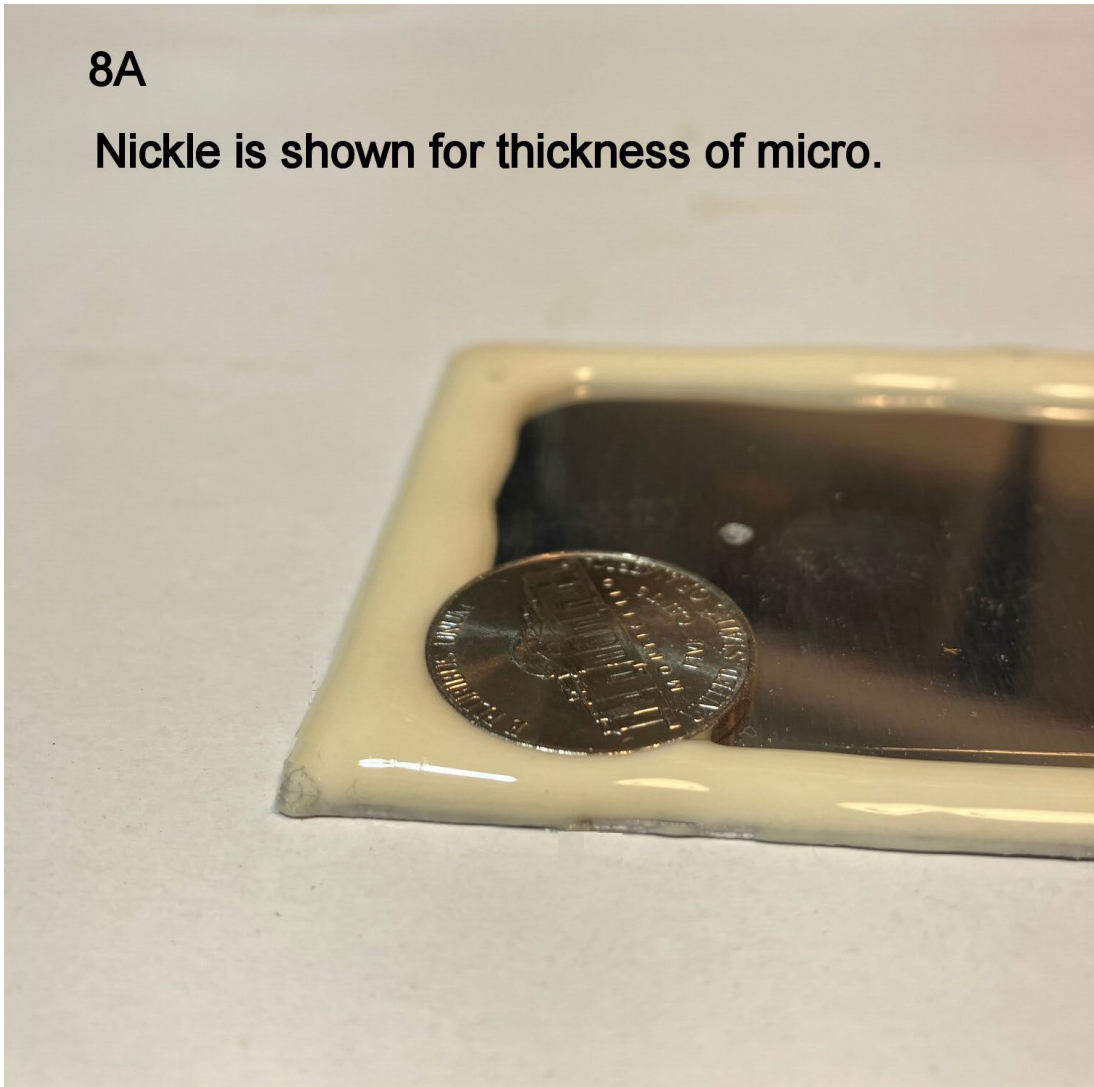
Eyelets are not installed for this picture they normally would be at this point

0.30" max



8A

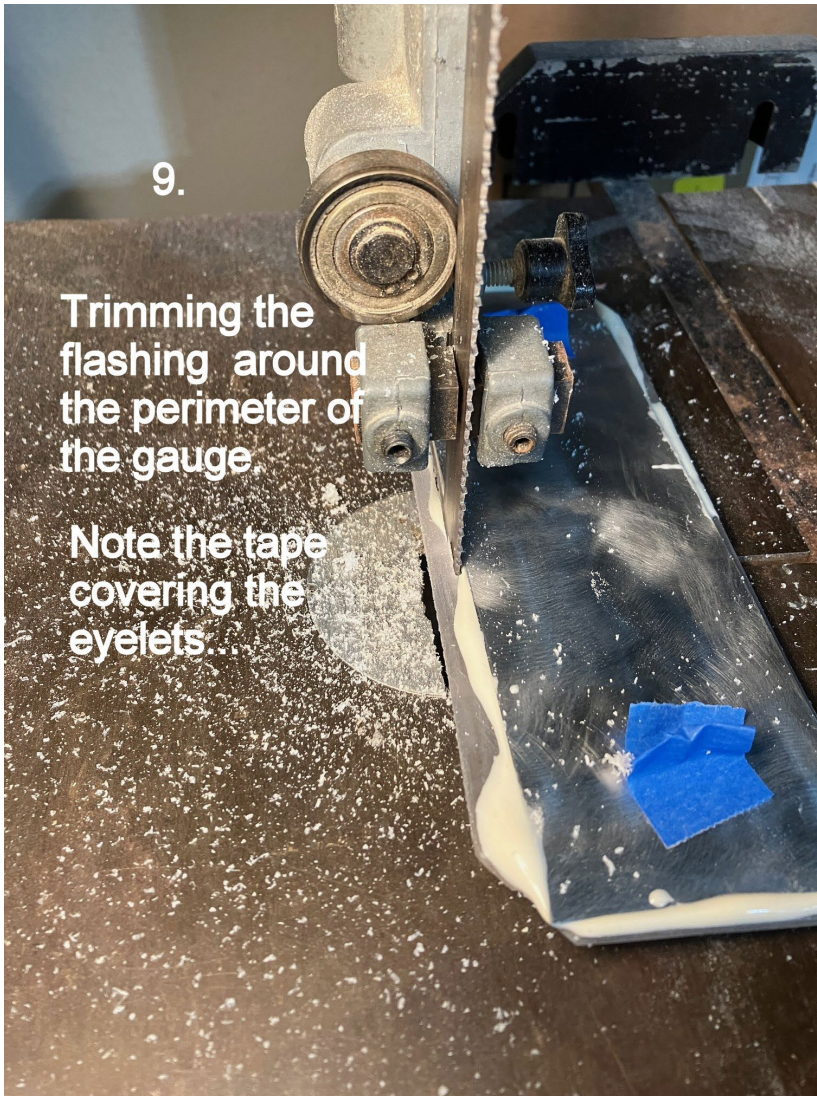
Nickle is shown for thickness of micro.



9.

Trimming the
flashing around
the perimeter of
the gauge.

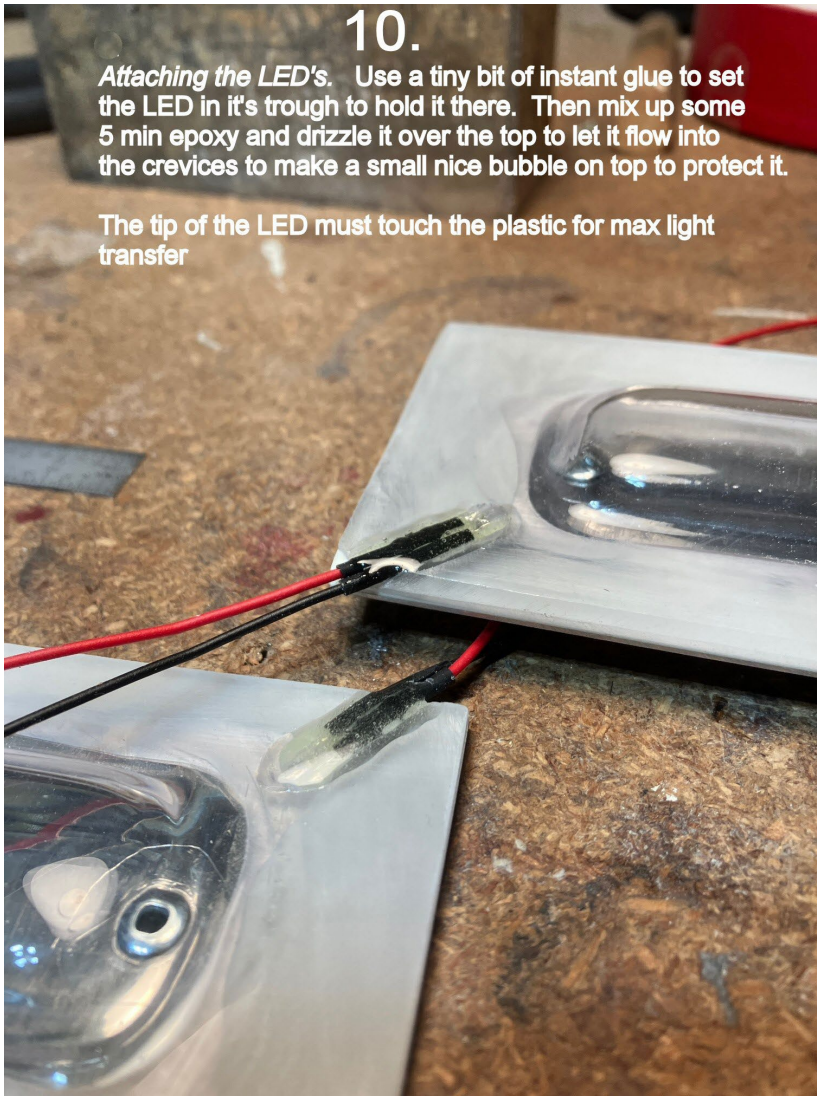
Note the tape
covering the
eyelets...



10.

Attaching the LED's. Use a tiny bit of instant glue to set the LED in it's trough to hold it there. Then mix up some 5 min epoxy and drizzle it over the top to let it flow into the crevices to make a small nice bubble on top to protect it.

The tip of the LED must touch the plastic for max light transfer



#11



**use this to take off unwanted
finger prints from bubble.**

TO VIEW VIDEO FILE, GO HERE:

<https://youtube.com/shorts/OrEu9rHaLJM>