

FUEL SIGHT GAUGES

Installation Instructions:

APPROVED FOR AUTO FUEL WITH ETHANOL AND AVIATION FUEL.

If retrofitting, empty your tank ! Peel off the protective tape if there is any. Use approx. 200 grit to prep the gauges. Sand everywhere there will be a bond, I leave the shiny center (facing the pilot), of the sight gauge unsanded. Suggest using West Systems with Micro for bonding, or std. Epoxy called out in the plans for EZ types, Superglue for the eyelets and 5 min glue for the lights.

Use the Aluminum backplate as a guide to drill the inflow and outflow holes into your fuselage. Where you drill **MUST BE A GLASS TO GLASS BOND.....ABSOLUTLY NO FOAM !**

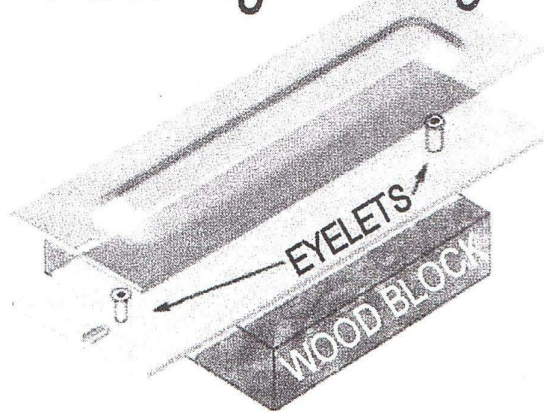
After drilling, remove the aluminum backing plate and superglue the eyelets into place. Mix up some medium wet micro and trowel or drizzle a bead 3/16" from inboard of the edge of Aluminum (see diagram). Make the bead about 3/16" to a 1/4" wide and 1/8 inch thick. Take the bubble and carefully center it so the eyelet holes are equally spaced on each end. Slowly lower it onto the microed aluminium backing plate.

Very lightly press on the bubble. You will note the micro spreading out further as you press. **DON'T PRESS SO HARD THE MICRO FLOWS INTO THE BUBBLE AREA !!** It will look ugly... If you guessed right on the spacing of the micro it will flow out over the edge of aluminium but **NOT** into the bubble cavity..... Let dry overnight.

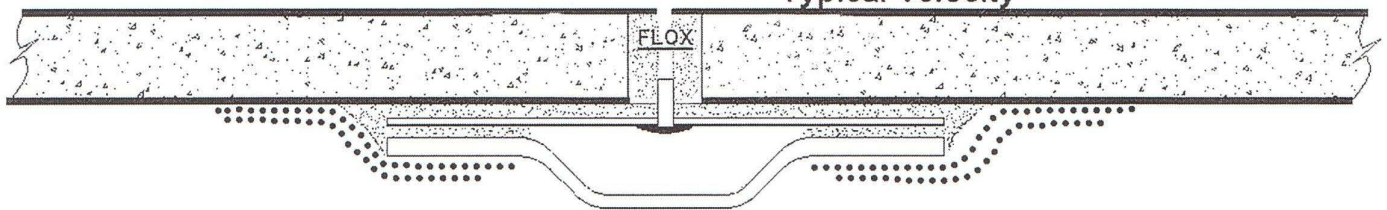
Next day, trim the excess from the clear bubble and micro from the backing plate. If you have the light option, clear the groove where it the LED sits, Which can be top or bottom, and 5 min epoxy the LED in place so that it sits with its tip touching the clear plastic, that tip touching area **MUST** be free of any micro..... Red band always goes to +12V.

Cut two layers of BID to cover the perimeter of the gauge and lay them aside. Mix up some medium wet micro and butter up the back of the gauge and bond it to the fuselage being careful not to get any in the eyelets. The layer should be at least 1/8" thick so you can squish some out around the edge to make a nice filet for the 2 plys of BID all around.

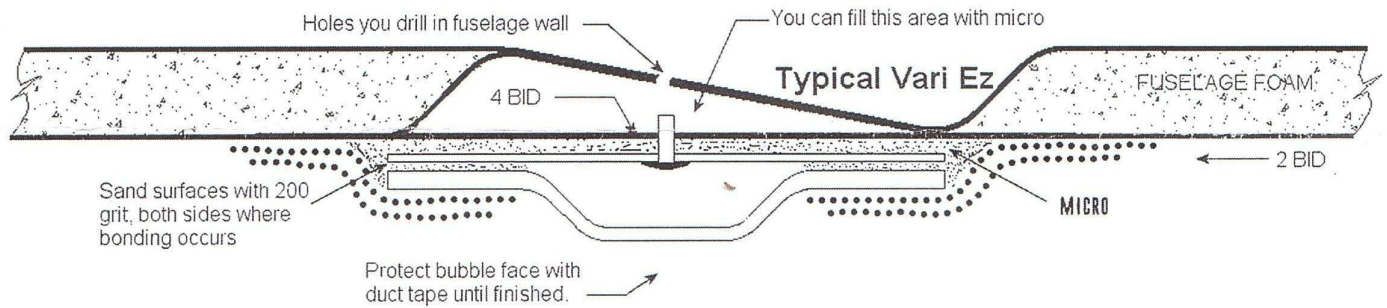
Fuel Sight Gauges



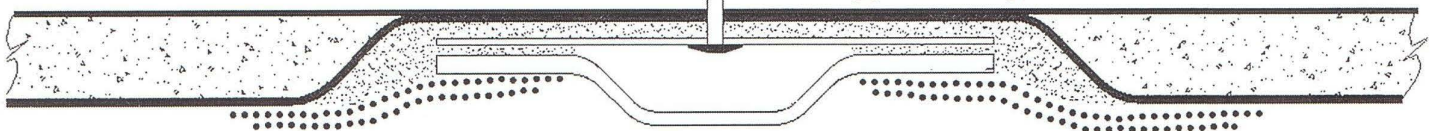
Typical Velocity



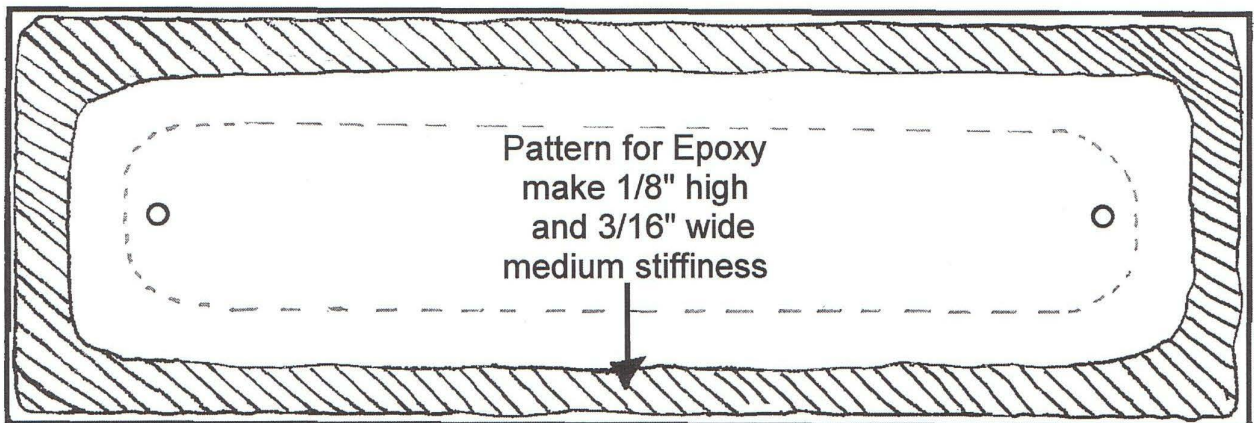
Typical Vari Ez



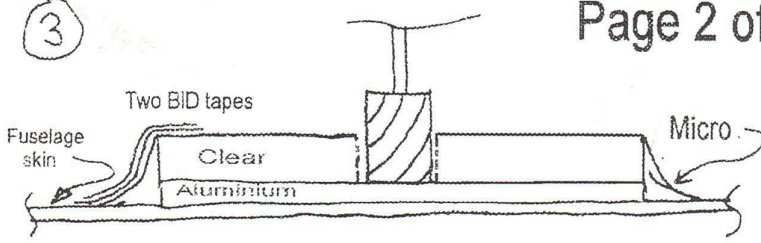
Typical Cozy, LEZ, Berkut



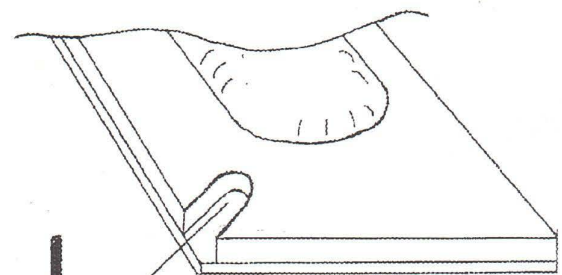
Pattern for Epoxy
make 1/8" high
and 3/16" wide
medium stiffness



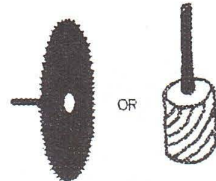
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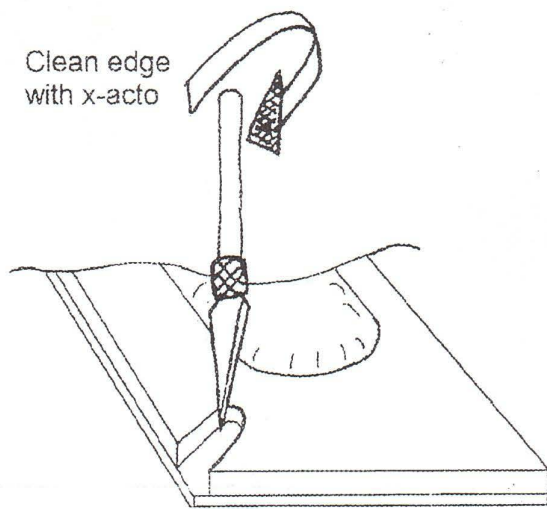
Insert Dremel in the hole. Start cutting using a downward motion. Go slow, don't overheat the plastic



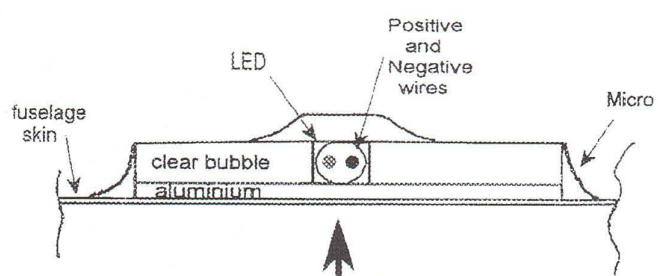
After initial drilled hole, expand with Dremel tool. Channel should be the width of LED.



Clean edge with x-acto

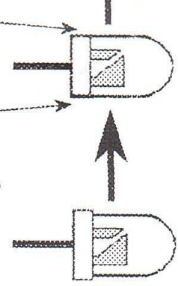


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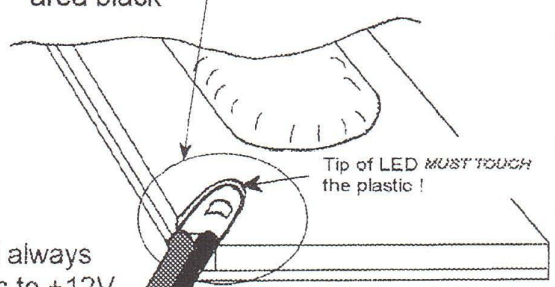
LED with top and bottom nibs sanded off to lay flat in clear bubble groove.

YOURS ARE ALREADY SANDED



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Paint this area black



Red always goes to +12V

1. Mix up some 5-min epoxy. Trowel into groove and fill it about half way.
2. Place the LED into the groove and top off the LED with some more 5-min epoxy.

3. THE area where bulb is will be very bright. You must paint it with black paint before painting the rest of the gauge with Zolatone.

LEDs with diodes and resistors are \$30.00 including postage.

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3 AFTER EPOXY DRIES THEN PAINT BLACK ON TOP of LIGHT AREA