

## **Zenith MX150/250 LCD Replacement Instructions:**

1. You will first need to remove the old LCD screen from the control board.
2. You will need to safely remove power from the main control and disable engine start or anything else that may be activated from disabling and removing the controller.
3. Remove the back cover of the controller followed by the standoffs and screws that mount the control board to back of the face plate.
4. Be careful not to bump the pushbuttons mounted on the front of the control, or they could snap apart.
5. Now you will need to remove the display, it is held on by spacers, standoffs, and 2-56 screws. A 3/16 nut driver is the best method to secure the standoff on the backside while you back out the mounting screws from the front. Beware, they used thread locking type compound to secure the 2-56 screws.
6. "GOOF OFF" can be used to soften the thread locker but be careful it can also soften the conformal coating on the controller. ((There are screws mounted on the backside of the stand-offs that will need to be removed. Solvent can then be dripped into the holes to try and soften the thread locker from the back side)).
7. After the hardware is removed, gently pry and remove the old display and simply plug in the new one. Position it with the small spacers provided and fasten it with your original screws. ((THE NEW DISPLAY IS THICKER AND YOU WILL NEED TO USE THE SMALLER SPACERS PROVIDED, OR CUT YOUR ORIGINAL SPACERS TO HALF SIZE)). The front screws will now sit deeper into the stand-offs

**NOTE: connector pins for the new display are shorter and terminal number 3 pin is missing. This is ok, the newer display sits deeper and the pins will make sufficient contact with the board socket and number 3 terminal is not needed.**

8. Re-install the small screws that were on the back side of the standoffs, they will stick out further, but should be ok as long as they are snug.
9. Make sure the display doesn't stand out further than the pushbuttons or LEDs and put back together.

***Any questions????  
Please call: Troy Graybill  
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## **ZENITH MX 150/250 Membrane Replacement Instructions:**

1. Start at the corners and carefully remove the original membrane from the faceplate with a prying motion, pry from the outside to the center. Once the membrane is free, continue removing the attached foil ground strap all the way around the bottom and cut it free from the ring terminal on the back side. You will then have to remove the back cover of the control so you can remove the standoff that secures the ground strap ring terminal, to the faceplate and circuit board.

***Note: Some spots of paint might be removed under where the membrane attaches and usually isn't a problem, providing the new membrane makes a secure seal to the faceplate. You might want to touch up with paint if necessary.***

2. Use rubbing alcohol or similar solvent to thoroughly clean any adhesive residue or grime from the faceplate.

3. On the new membrane, remove the protective film and 3m backing from backside of the membrane only and position the new membrane over the face plate where it will fit.

***NOTE: When positioning, start with the top of the new membrane first, so you can make sure the LEDS, located above the display, line up through windows provided for them, before lining up the main display window. This is the one of the areas where proper positioning is the most critical.***

4. Once you are sure your LED windows are lined up properly, you can slowly lower the rest of the membrane onto the faceplate making sure the window for the display screen is also lined up.

5. Peel off the outer protective film from the front and test the pushbuttons to make sure they activate and release properly.

***Note: We currently do not label the membranes as MX150 or MX 250 so that they would be universal for both units, but you can use a label or permanent marker to indicate on the membrane, as to which model you have.***

***Any questions????***

***Please call: Troy Graybill***

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