

## E38 Instrument Cluster Pixel Fix by Edwin

Take out the cluster from the car ;-)

Flip it on the back and level the black tabs so you can remove the front cover:



Then press in the tabs (2 top 2 bottom) and slide the front off:



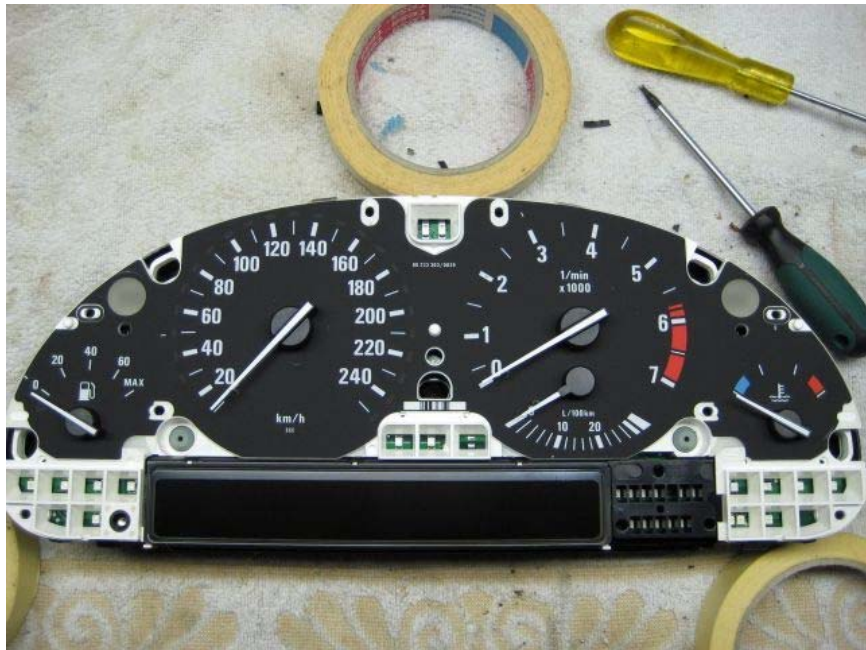
Flip the cluster and rest it on some rolls of tape so needles don't get damaged!  
Then break off the 6 plastic tabs of the connectors, you don't need this back as the back plate is screwed!



Flip cluster on it's back and undo all the torx screws:

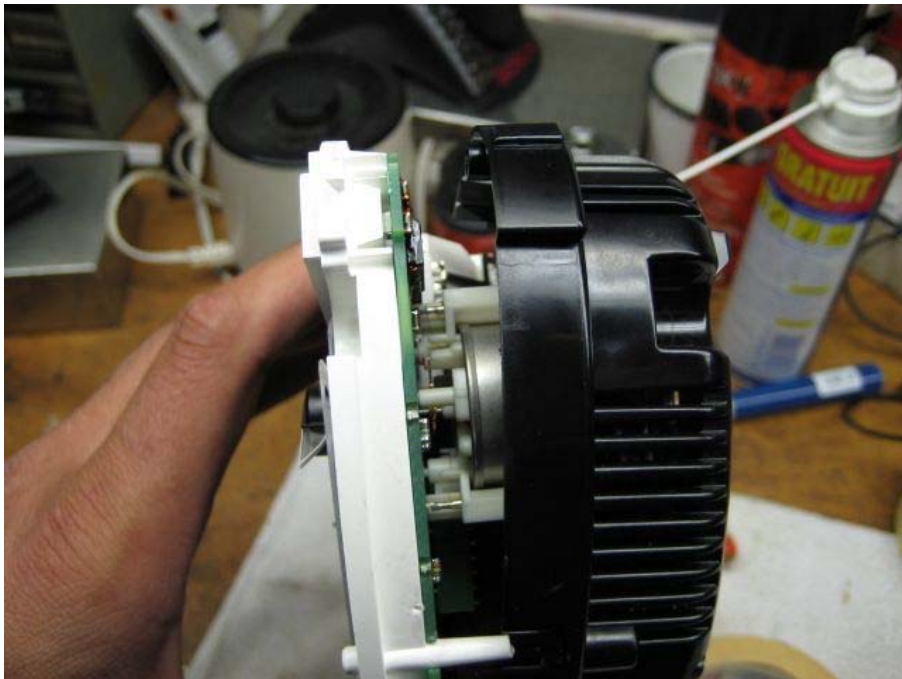


screws out:



Then gently slide back part off (2 clips at the display need to be pressed in)





The back looks like this, WOW scary ;-)



Flip the cluster back, dials facing up and support it with rolls of tape so the back does not hit the table.

Get a 5 or 5.5mm iron drill and start drilling holes! Yep no way back here.

Gently lift the facing to create room and drill!

it's hard to see in the pics but if you look close at the backside of the front plate you will see were you have to drill.

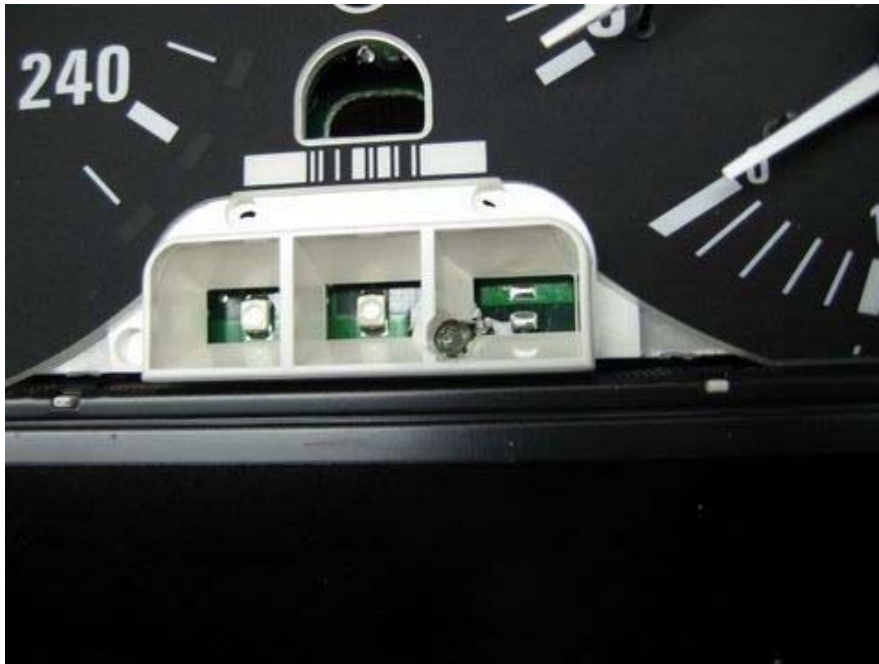
First one under the fuel needle.



2nd one under the speedo:



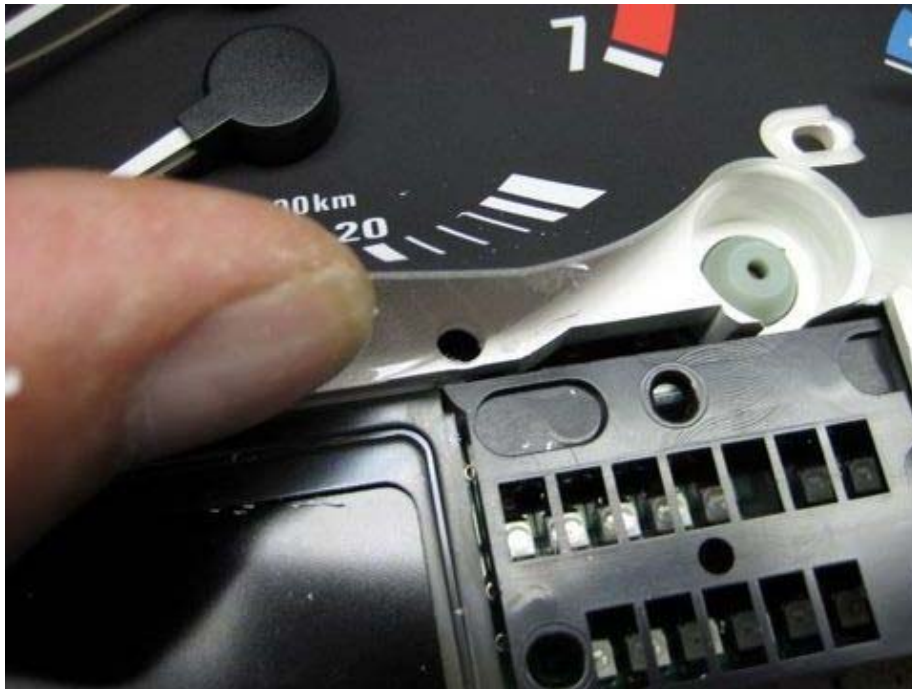
3rd one is between your LEDS



4th one is under the fuel usage.

If the needle is in your way slide it away en GENTLY tape it down, once loose it will return to normal.

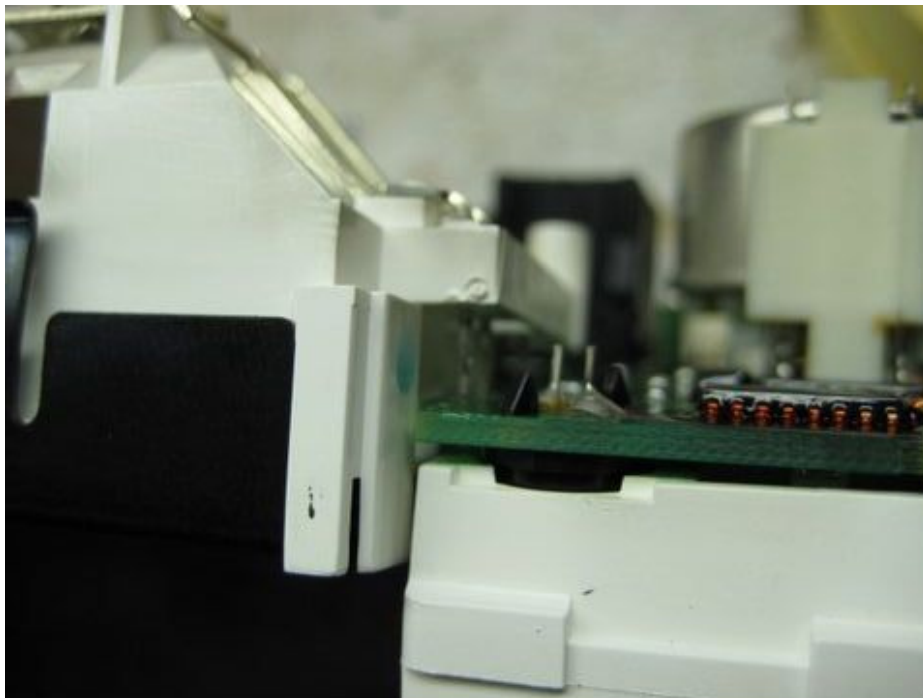


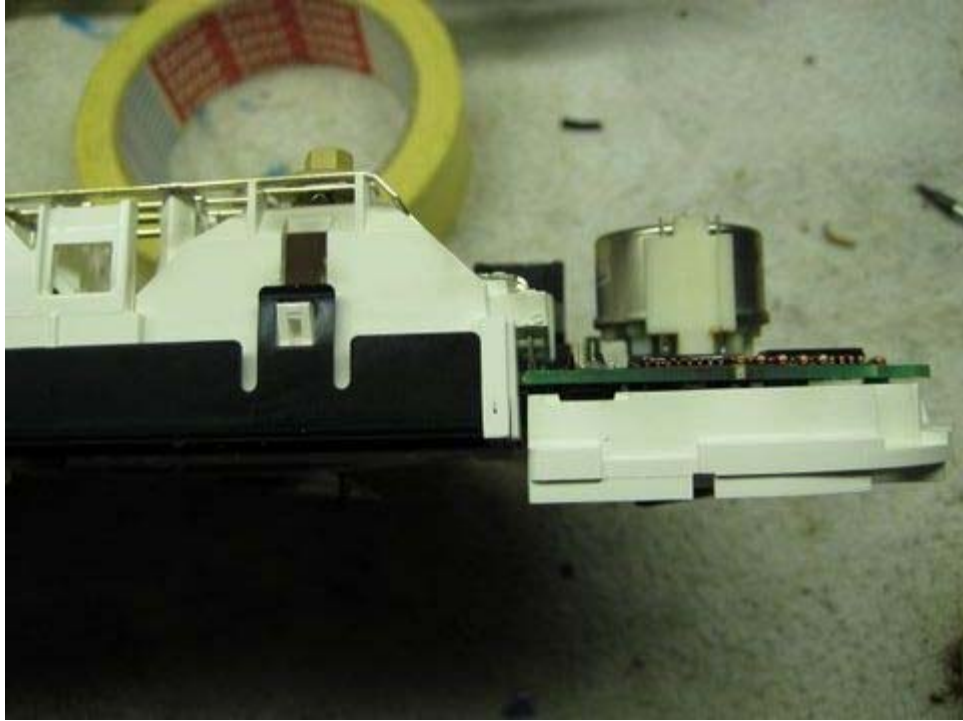


All the 4 screws have T10 (torx) heads.

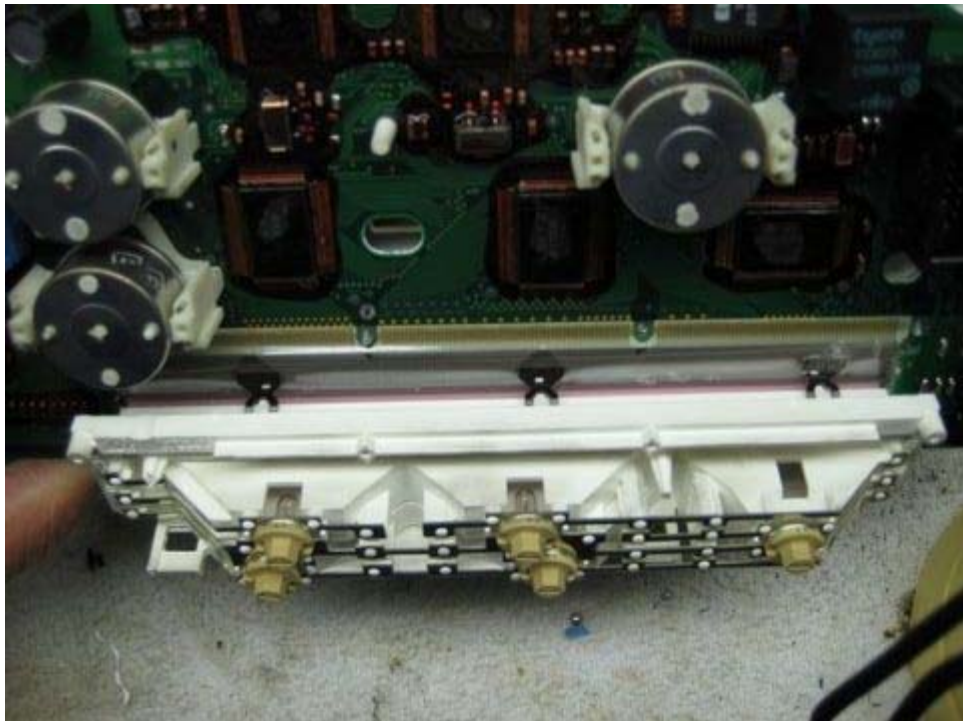
Undo all 4 screws (nope they don't come out all the way) it's easier to leave them in place.

Take a screw driver en gently pry in both corners of the display to get display out.





Once loose you will see/have this in front of you.

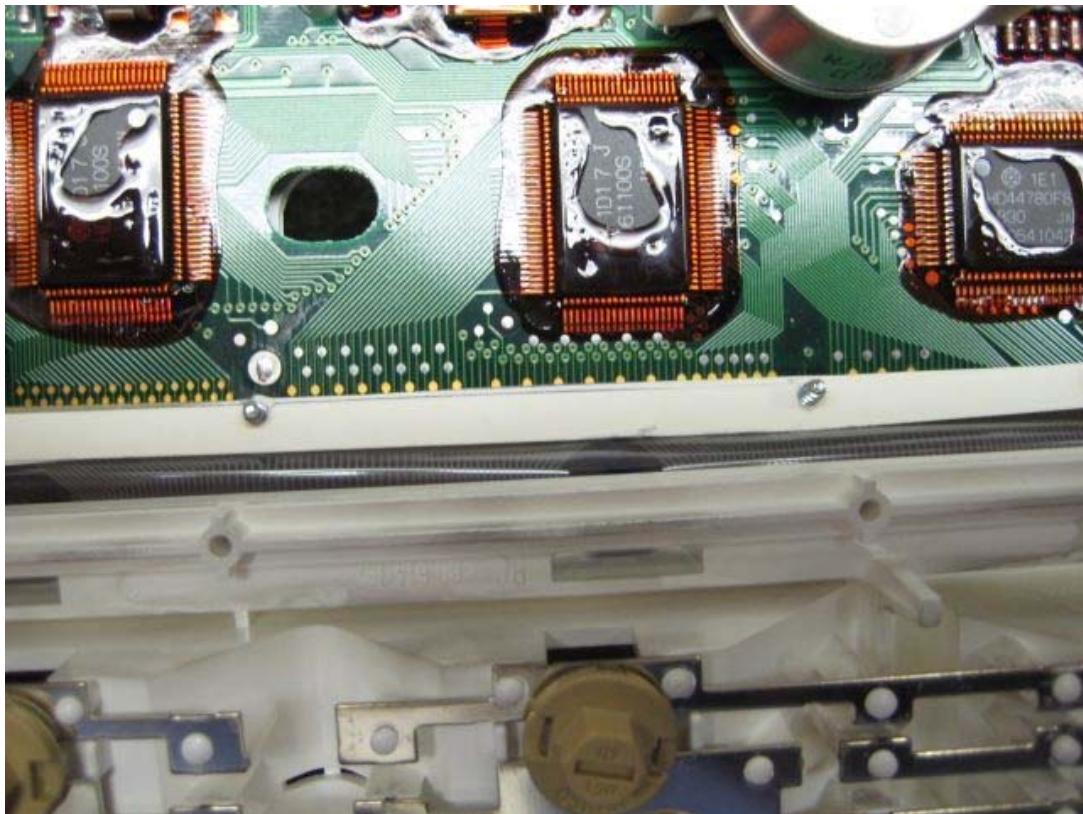


This is the issue, not enough pressure here to have a nice clean pixel failure free view!





I use some cardboard strips and put them ontop of the flexcable.



If you want you can unclip the topside of the display and add some cardboard here just to be safe.



If you look at the strip you can see the imprint in the rubber, flip it around and put it back.



Put the display back together and go test before you completely close it up, it may take some attempts to get it perfect.

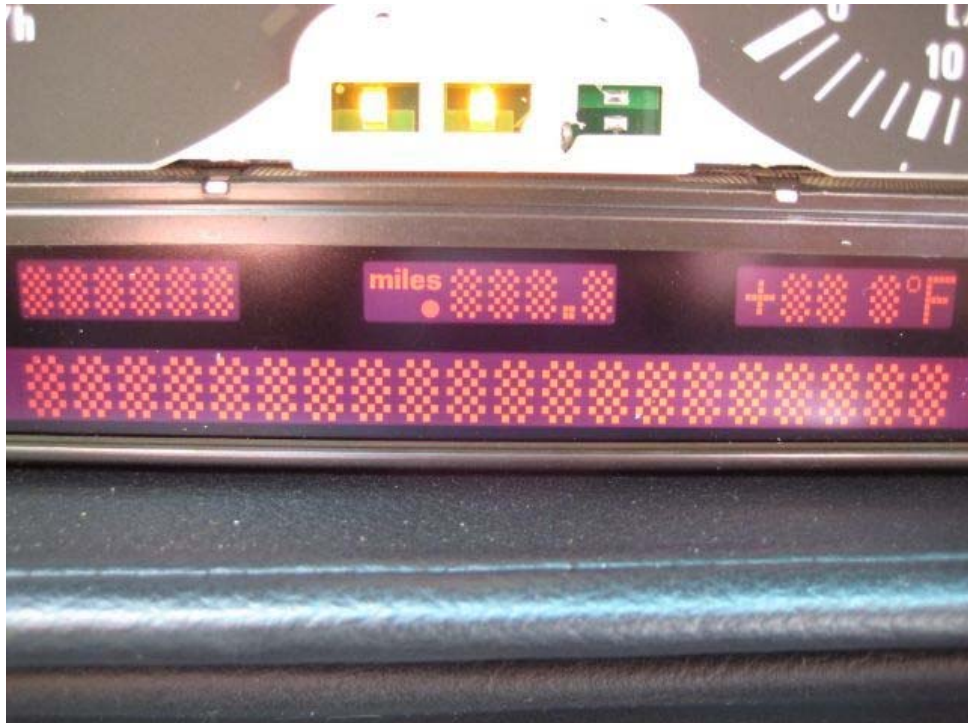
And now the before and after pics:

BEFORE :





AFTER:





I say nice job all together!  
Hope this helps you guys and that it may become a success just like this one!

Edwin