EPROM insertion guide, version 1.8 Humboldt Stiffness Gauge (GeoGauge) #H-4140

To replace an EPROM with another EPROM, do as follows:

1. Ascertained that the calibration factor is the same or established for that GeoGauge.
2. Turn off the GeoGauge.
3. Remove the front display panel via four captive phillips head screws at the metal corners.
4. As a pre-caution, remove any static or electrical charge you may have on yourself by touching an earth grounded source such as a un-painted screw at an electrical outlet cover or light switch cover or even the metal chassis at the rear of the computer CPU.
5. Carefully lift the display panel straight up and away from the GeoGauge body.
6. Turn display panel sideways exposing the two blue slide switches. The switch closer to the middle is the reset "R" switch. The switch near the edge of the top side is the calibration "C" switch. Do not switch anything at this point yet.
7. Continue to turn the display panel, with the electronic circuit board attached, completely upside down. Set upside down on the table or on a raised box next to the GeoGauge body.
8. Locate the EPROM chip. It has a window in the middle, its internal circuit visible. Most units will have a copyright label over the entire top side of the EPROM. The EPROM is also in a socket with a metal lever at one end. Note the location of the notch at one end of the EPROM, it should be towards the middle of the board. Again, do not touch anything on the board yet.
9. As a pre-caution, **again** remove any static or electrical charge you may have on yourself by touching a un-painted grounded source such as a screw at an electrical outlet cover or light switch cover or even the metal chassis at the rear of the computer CPU.
10. Lift the lever up to un-clamp the EPROM from the socket.
11. With clean fingers, carefully and gently lift out the EPROM from its socket. Set-aside upside down on the table.
12. Carefully and gently insert the new EPROM in the socket evenly. A very slight push to one side of the EPROM to gently guide the pins as you insert into the socket may help the insertion. Note the location or direction of the notch at one end of the EPROM it should be towards the middle of the board.
13. After making sure the EPROM is evenly all the way in and the notch in the correct direction, first, visually examine all pins. Then clamp the EPROM into the socket by gently lowering the lever.
14. Pick up the panel and hold in such a way the electronic circuit board is not touching anything and the display is visible when you move a slide switch.
15. Move the reset switch button towards the middle of the board.
16. Turn on the unit by pushing the "ON" button. The display should momentarily show 'reset'. After a few seconds the display should change and show 'SI' and 0.00000. Still "ON", move the reset switch button back towards the top edge.
17. Turn off the unit by pushing the "OFF" button.
18. Carefully re-insert the front display panel into the GeoGauge body. Screw back in each of the four corners captive screws snug.
19. The GeoGauge is ready for measurements.
20. Place the removed EPROM into the EPROM package and save or return to Humboldt Mfg. Co.

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