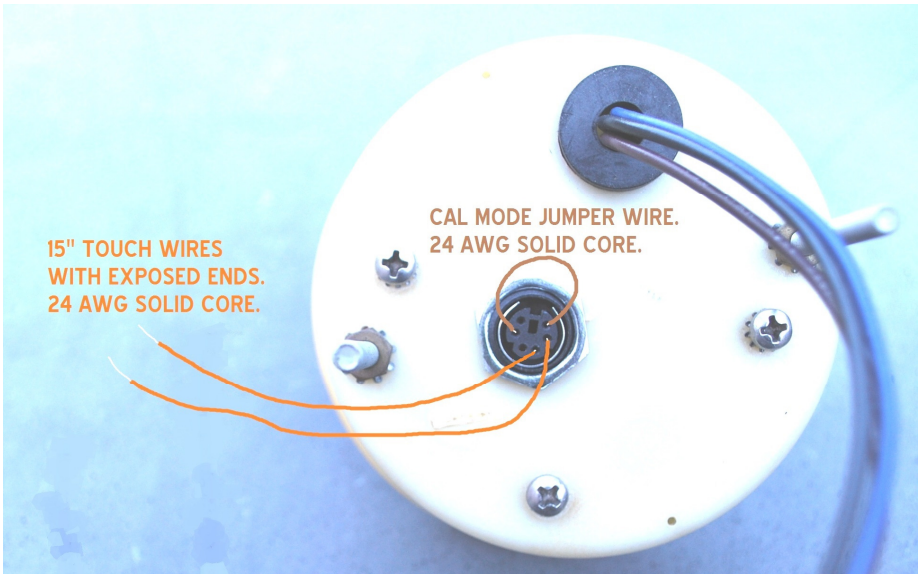
AGR *Universal* Calibration Procedure

A calibration is required to accurately convert reported GPS speeds into needle positions. The Universal procedure is designed to handle all Dial Faces. The process has no preliminary notion of where the hash marks are. Thus the needle makes no attempt to 'jump' to those locations.

Universal mode is required for 60 MPH and 80 KPH Dial Faces.



1. Confirm the GPS Receiver is unplugged. And the Jumper wires are **correctly** inserted in the PS2 mini circular connector.
2. With the two orange Touch wires in reach, view the Speedometer's face at a close-up.
3. Turn the Backlight on for Visual Clues.
4. Power-up the gauge. Do Not inadvertently contact the Touch Wires; and only 'touch' the wires once when instructed to do so.
5. After two seconds the AGR will enter Calibration Mode (verified by four rapid Backlight flashes). If it's not there already, the needle will fall to the lowest CCW value.
6. The needle will slowly increase. When the needle points exactly at **TEN** [10] miles per hour, briefly contact the two Touch Wire (exposed) ends. A flash from the Backlight will confirm each Touch wire contact. [KPH use 16]
7. The needle will continue to creep towards **FIFTEEN** [15] miles per hour. When it is centered on FIFTEEN, momentarily touch the wires. [KPH use 24]
8. Continue the center and touch routine for **20, 25, 30, 35, 40,** and on up to the **Last Cal step** which is full scale minus 5 mph. [KPH use increments of 8].
9. Upon reaching the Last Cal step contact/hold the wires together, and continue wire contact (about four seconds) until the needle begins to retreat.
10. **ONLY** after the confirmation 'touch' at the last calibration point will the AGR compute the calibration constants. The calibration constants are saved in non-volatile memory.
11. The needle will reset and automatically retrace most of the calibration steps (over-and-over). The first retrace step will be near TEN [10], and the last at full scale minus 5. No intervention is required... just observe.
12. An accurate retrace indicates the calibration is valid. To redo or replace this calibration, simply turn the power off, wait 10 seconds, and begin again at step 4.
13. Your Calibration is done. Turn the power off. Remove the Jumper wires.