# HS402W CAN CALIBRATION PROCEDURE

NOTE: It is best to first calibrate and test circuit integrity through STM32 USB connection. Also a good time to trim the two variable capacitors for best square wave performance.

Once build is completed, a final calibration through the HS402W DLC pins is required. Follow <u>THIS</u> specific calibration procedure:

1) Using a bench power supply set @ 7.5v apply to pin16 (+) and pin4 (-) . This will power the HS402W. ANDROID WiFi connect to it. HScope should then connect to HS402

2) Make sure rotary selector switch is set HI

3) Using extra alligator clips cable, connect pin6 to power supply (-) ground.

4) Perform ZERO Calibration to CH1

5) Move extra alligator clips cable connect pin14 to power supply (-) ground.

6) Perform ZERO Calibration to CH2

7) Move alligator clips cable to connect pin6 to power supply (+7.5v)

8) Perform MULT Calibration on CH1 (select 7.5v)

9) Move alligator cable to pin14 and power supply (+ 7.5v)

10) Perform MULT Calibration on CH2 (select 7.5v)

Done. Calibration data is stored in STM32 memory and remains with HS402W CAN.

NOTE: Do NOT expect 0v with OPEN DLC. Not a normal circuit as the two unconnected BNC (-) on the PCB would suggest.

This is a specialized cicuit that will ONLY measure accurately with this calibration and once plugged into vehicle's DLC.