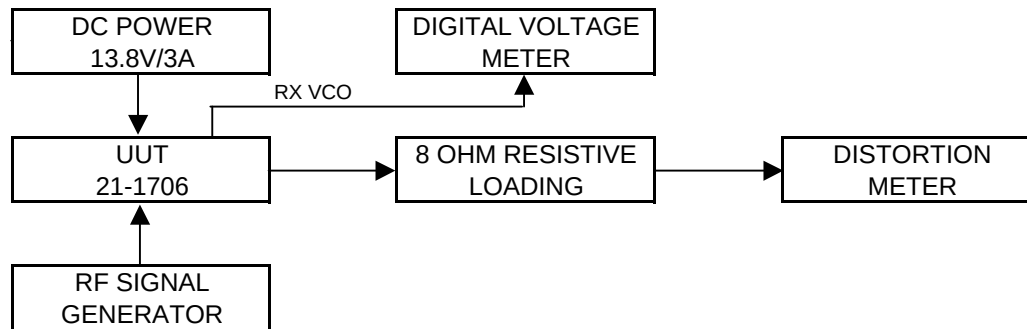


ALIGNMENT PROCEDURE

1. TX ALIGNMENT (THE CONNECTION IS AS ABOVE)

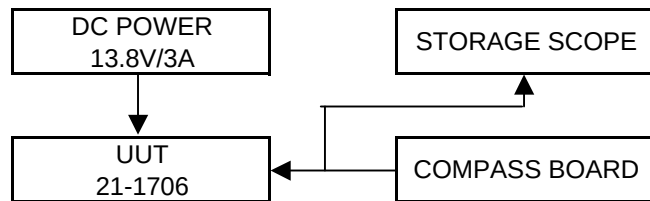
1. SET THE UNIT TO CHANNEL 19 WITH TX MODE, ADJUST T502 TO GET THE 2.5 ± 0.2 V DC DISPLAY ON THE VOLTAGE METER.
2. ADJUST T4, T5, T6, AND L8 IN SEQUENCE TO GET THE MAX POWER RECORDS ON THE POWER METER, THE POWER SHOULD BE WITHIN 3.2 to 3.7W.
3. ADJUST C551 UNTIL THE TRANSMIT FREQUENCY IS 27.185MHz $\pm$ 300Hz.



2. Rx ALIGNMENT (THE CONNECTION IS AS ABOVE)

1. SET THE UNIT TO CHANNEL 19 WITH RX MODEL.
2. ADJUST T501 TO GET 2.5 ± 0.2 V DC WHICH IS RECORDED ON THE VOLTAGE METER.
3. SET THE RF GENERATOR TO 27.185MHz WITH 1KHz 30% AM MODULATION.

4. ADJUST SQ TO MINIMUM POSITION AND THEREF GAIN TO MAXIMUM POSITON POSITION.
5. ADJUST THE AUDIO VR TO MAKE THE AUDIO OUTPUT TO BE A REFERENCE OUTPUT.
6. ADJUST Q5 TO GET THE MANIMUM AUDIO DISTORTION.
7. REDUCE THE OUTPUT RF POWER TO BE 1uV.
8. ADJUST L1,T1,T2,T3 TO GET THE MAXIMUM AUDIO OUTPUT.
9. CHECK THE MAXIMUM SENSITIVITY TO BE BELOW 0.6uV AND 10dB S/N SENSITIVITY IS BELOW 1uV.



COMPASS ALIGNMENT

1. THE CONNECTION IS AS ABOVE.
 2. KEEP THE COMNPASS PCB TO BE ON A LEVEL GROUND AND ROTATE THE PCB TO GET THE OUTPUT DATA TO BE MOST A LINE.
 3. ADJUST VR 603 OR VR604 TO GET THE DATA LINE TO BE AROUND 2V AND THE VP-P OF THE DATA SHOULD BE WITHIN 1-3V.
 4. REPEAT THE STEP 2 AND 3 TO GET THE ANOTHER DATA.
- NOTE: DON'T PLACE ANY MAGNETIC COMPONENTS NEAR THE CONPASS BOARD DURING THE COMPASS ALIGNMENT IS IN PROCESSING.