Alan,

I have just received some information on the 8021 preamplifier by mail. I am faxing you a copy. The SKT094 drawing is A3 size and my FAX machine can only send a reduced copy. Let me know if you want me to mail you a better copy.

Regards,

Stephen
FILE

8021 PRE-AMP.

BASIC SET UP INSTRUCTIONS.

THE UNIT IS SUPPLIED WITH ADJUSTMENTS PRE-SET ON TEST RIG, THE BAND PASS CENTRE FREQUENCY IS SET AT 4.75 KHZ. MAXIMUM STABLE GAIN (Q ADJUSTMENT).

THE NULLING CIRCUITS ARE TEST RIG SET IN A POSITION WHICH WILL NEED FINAL ADJUSTMENT ON SYSTEM TO COMPENSATE FOR MESH CAPACITANCE AND ELECTRODE STRUCTURE.

1. CONNECT UNIT BETWEEN 8011 PSU SCREEN OUTPUT AND SYSTEM SCREEN ELECTRODE WITH CAPTIVE CABLE/SHV CONNECTOR SUPPLIED.

2. PLUG PRE-AMP INTO THE 8011 PSU USING THE MULTI CABLE FITTED WITH 9 PIN D PLUG.

3. CONNECT THE OSC OUTPUT FROM THE LOCKING AMP. UNIT TO THE 8011 MODULATION INPUT.

4. SWITCH ON THE SYSTEM WITH THE HV OFF, ADJUST THE PRE-AMP FINE TUNING CONTROL FOR MAXIMUM OUTPUT USING THE OSC. BREAKTHROUGH SIGNAL (OSC, 2.375 KHZ, SECOND HARMONIC 4.75 KHZ) ONLY NEEDS TO BE CARRIED OUT IF THE OSC. IS NOT EXACTLY 2.375 KHZ. CHECK Q IS SET FOR MAX. STABLE OUTPUT, FREE FROM OSCILLATION WHEN INPUT SWITCHED OFF AND ON.

5. SWITCH ON HV AND ADJUST PHASE SHIFT AND AMPLITUDE OF NULLING SIGNAL FOR MINIMUM PRE-AMP OUTPUT. 180 DEG PHASE SHIFT IS AVAILABLE, SHOULD THIS NOT PROVIDE SUFFICIENT TO PROVIDE ADEQUATE NULLING, AN INTERNAL LINK PLUG CAN BE REVERSED TO PROVIDE 180 TO 360 DEG.

6. AFTER SET UP, RAMP MESH VOLTAGE AND CHECK FOR ELASTIC PEAK.

RJW/AEP 9/JUL/90

\[ f = 2.375 \text{ KHz} \]

\[ 2f = 4.75 \text{ KHz} \]