115D2277 G 001,002,003 Rewritten by B. Hall January 7, 1993

LOU-GED-115D2277-A

A. Power Inputs

RoFerence P3K-AL-0401-A01

- 1. .+22 VDC to pin 37
- 2. -22 VDC to pin 41
- 3. Common to pin 39

B. Power Supplies

- 1. VTP1 = 15.7 + / 1 VDC
- 2. VTP2 = -15.7 + / 1 VDC

VR1 Full cw°

- 3. I Pin 37 = 63 + / 15 ma DC
- 4. I Pin 41 = 62 + / 15 ma DC
- C. ICI (VIDLET)
 - 1. VTP50 = 1.45 to 1.9 VDC 1.63 VR8 cw VTP50 = -7.5 to -6.2 VDC -6.8 VR8 ccw
 - 2. Gains

(VIOLET) For VTP50 = 1

a. Adjust VR8 for VTP50 = 0 VDC Ground pin 33 +1 VDC to pin 35 (VR9 ccw)

 $TP7 = -5 \ VDC +/- .1$

b. Move input to pin 36 = + 5.00 VDC

TP7 = -2.55 to -2.48 VDC

c. Move input to pin 33 = + 1.00 VDC

Move ground from pin 33 to pin 35.

TP7 = -4.9 to -5.1 VDC

d. Move input to pin 32 = +5 VDC

TP7 = -2.48 to -2.55 VDC

- e. Remove voltage from pin 32. Ground pin 33.

 VR8 cw TP7 = -1.56 to -2.04 VDC

 VR8 ccw TP7 = 6.00 to 7.00 VDC

 Set VR8 = 0.00 VDC
- D. Meter Amplifier (IC3)
 - 1. VTP53 (Black) = -22 VDC (VR10 cw) VTP53 = -5.8 to -6.85 VDC (VR10 ccw)
 - Attach a milliammeter from pin 24 to ground. Ground TP5 and null IC3 TP4 = 0.00 VDC Insure that VR50 runs TP4 through zero. Remove ground at TP5.
 - 3. Apply 10.00 VDC to pin 6.
 Amp meter = 1.5 to 1.6 ma DC (VR5 cw)
 Amp meter = 0.82 to 0.92 ma DC (VR5 ccw)
 Remove amp meter from pin 24.

E. Summing Amplifier (IC2)

- Voltage Ranges
 - a. VTP60 (Violet) = 0 VDC (VR4 ccw) VTP60 = -5.00 to -6.00 VDC (VR4 cw)
 - b. VTP55 (Green) = 0 VDC (VR7 ccw) (VR53 ccw) VTP55 = -12 to -14.1 VDC (VR7 cw)
 - c. VTP51 (White) = 5.42 to 5.58 VDC (VR1 ccw) (VR2 cw) VTP51 = 19.02 to 19.49 VDC (VR1 cw) (8.24) VTP61 should read one diode drop less than VTP51 = approx. .6 VDC.
 - d. VTP64 (Brown) = 0 VDC (VR3 ccw) (VR54 ccw) VTP64 = -14.17 to -15.17 VDC (VR3 cw)
- 2. Amplifier Gains
 - a. Release input to pin 6.
 - b. VR7 = ccw
 Ground- TP63 (B1k.) TP66 (Orange) TP62 (Red) TP67 (B1ue)
 TP57 (B1ue) to TP52 (Red) Shorted
 TP58 (Yellow) to TP59 (Gray) Shorted
 Set VTP61 to 5.00 VDC with VR1
 Then
 VTP3 = -4.05 to -4.21 VDC (VR2 cw)
 VTP3 = -4.06 to -3.87 VDC (VR2 ccw)

Remove all grounds TP63, TP66, TP62, TP67, and the short TP57 to TP52.

Ground TP7, TP54 (Brown), TP61 (White), TP5, TP66 (Orange), TP65 (Green).

Input 1 VDC to TP56 (Orange). VTP3= -1.23 to -1.27 VDC (VR55, VR6 ccw) Reduce input TP56 = .2 VDC. VTP3 = -9.54 to -11.86 VDC (VR55, VR6 cw)

Put a negative voltage into TP56 until TP3 stops changing. Final value (limit) is 5.79 to 5.96 VDC. Salue (limit) is 5.79 to 5.96 VDC. Salue value val

Replace jumper TP58 to TP59.

Remove Grounds. Then TP57 to TP52 shunted TP66, TP63, TP61 grounded. BROWN (a) Input +5.00 VDC to TP56. ORANGE GREEN (b) Set (TP54) for -5.00 VDC with VR7. (Note TP55 is one diode drop more than TP54 = approx. -5.7 VDC.) Read TP3 = -0.97 VDC +/- .14. -.95 (c) (d) Set VR53 full cw. TP3 = -4.025 to -4.38 VDC. = 4.06 Read TP7 = approx. O VDC (no inputs). (e) (f) Set VR7 full ccw. Set TP7 for +5.00 VDC with VR8. Remove +5 VDC from TP56. (g) (h) Set VR51 full ccw. (i) (j) Read TP3 = -9.85 to -10.25 VDC. -10.1Set VR51 full eew. ಲು (k)Read TP3 = -.342 to -.432 VDC. -.372(1)Read TP54 = approx. 0 VDC. (m)Remove grounds.Rep BLUE Ground IP61, TP62, TP67. REAPPLY SVOC (n)+ 0 TP 56 (o) Set TP65 for -5.00 VDC with VR3. (p) Set TP63 = approx. 0 VDC. *(q)* VR54 full cw. Read TP3 = -0.75 to -1.05 VDC. -1.39(r) VR54 full ccw. (s) TP3 = -4.5 to -4.82 VDC.-4.63 -4.59 (t) (u) Set VR3 full ccw. Set VR52 cw. Move the +5.00 VDC input from TP56 to pin 6. € (v) GREEN (W) (TP65) = approx. 0 VDC. TP3 = -9.85 to -10.25 VDC. -10.1(x) VR52 full ccw. (y) TP3 = -0.338 to -0.435 VDC. -.37(z)

Remove all power input from card.

End of Test