

## D4 Calibration and Bench Test Procedure

### 1. Self Diagnostics

- (A) Power up unit, observe self diagnostics on display counting up from C A1 to C d4.
- (B) After diagnostics, display should flash:
  - 1. "AdA"
  - 2. "ddl"
  - 3. stop at "1"

Note: Step applies only to units that do not yet have battery back up.

### 2. Power Supply

- (A) Check supplies at the following components:

Left Side C-100	Ground
U66	+5V
U65	+5V
U64	+15V
U63	-15V
Leftside R-81	-9V
Leftside R-82	+9V

Note: All supplies must be within +/-4%

### 3. LEDS

- (A) Load "Shadow Programs", push "Edit", "B" and "Hold" buttons in this order.
- (B) Switch through all controls checking L-5 to L-7 and L-33 to L-42 for uniform brightness.
- (C) Check Delay rate LED (program A-4) and Sweep rate LED (program C-1). Check display for uniform brightness.

### 4. Delay Clock Frequency

- (A) Go to program A-4, display should read "1000", probe left side of R-191 with frequency counter adjust T-5 (bias) for 250 KHz.
- (B) Go to program A-1, display should read "2" adjust T-4 (range) until clock sweeps up to 1.024 MHz maximum.
- (C) Go back to program A-4 and adjust T-5 for 250KHz to compensate for interaction of T-4.

