






SECTION 5 CALIBRATIONS

5.1 Sequencer & Quantizer

REF. NO.	TRIMMER.	TRIM PROCEDURE
R19 	FREQ. CAL.	<ol style="list-style-type: none"> 1. Put the CLOCK FREQUENCY SLIDER fully UP. 2. Monitor the CLOCK OUTPUT with a frequency counter or oscilloscope. 3. Put all other sliders fully DOWN. 4. Adjust trimmer R19 for a 10 msec. period waveform (100Hz.).
R26 	PULSE WIDTH	<ol style="list-style-type: none"> 1. Put all GATE ASSIGNMENT switches fully UP (Gate Bus 1 position). 2. Monitor the CLOCKED GATE 1 OUTPUT with an oscilloscope. 3. Put the GATE/TRIG switch in the TRIGGER mode. 4. Depress the START/STOP button to START the sequencer. 5. Put the CLOCK FREQUENCY slider fully UP. 6. Put the CLOCK FM slider fully DOWN. 7. Put the CLOCK PULSE WIDTH slider fully UP. 8. Turn trimmer R26 fully CLOCKWISE. 9. SLOWLY turn trimmer R26 COUNTER CLOCKWISE until waveform disappears (constant +14 volts). TURN NO FURTHER.
R206 & R207 	A OFFSET & B OFFSET ADJUST	<ol style="list-style-type: none"> 1. Connect a patch cord from INPUT A jack to INPUT B jack (isolates quantizer inputs). 2. Adjust trimmer R206 for 0 volts $\pm .005$ V on QUANTIZED A OUTPUT. 3. Adjust trimmer R207 for 0 volts $\pm .005$ V on QUANTIZED B OUTPUT.
R226 & R222 	QUANTIZER CV V/OCT	<ol style="list-style-type: none"> 1. Put all sliders on the sequencer fully DOWN. 2. Put the TRIG/GATE switch in the GATE mode. 3. Put the sequencer mode switch in the 16 X 1 POSITION. 4. Put the SEQ/RAND switch in the SEQUENTIAL position. 5. Depress the RESET button (position 1 LED should be lit). 6. Put the POSITION 1 SLIDER fully UP. 7. Adjust trimmer R266 for +2.00 volts on the QUANTIZED OUTPUT A jack. 8. Adjust trimmer R222 for +2.00 volts on the QUANTIZED OUTPUT B jack.
R217 & R218 	A MOD ADJUST B MOD ADJUST	<ol style="list-style-type: none"> 1. Put all the sliders on the sequencer fully DOWN. 2. Put the GATE/TRIG switch in the GATE mode. 3. Put the mode switch in the 16 X 1 POSITION. 4. Put the SEQ/RAND switch in the SEQUENTIAL position. 5. Depress the RESET button (position 1 LED should be lit). 6. Connect a patch cord from INPUT A jack to INPUT B jack (isolates quantizer inputs). 7. Monitor the A SEQUENCER OUTPUT with a DVM. 8. Raise the POSITION 1 SLIDER to $\frac{1}{2}$. 9. Measure and record the EXACT VOLTAGE level on the A sequencer output (should be near +5 volts). 10. Connect a patch cord from the A SEQUENCER OUTPUT jack to the CV IN jack. 11. Monitor the QUANTIZER OUTPUT A with a DVM. 12. Adjust trimmer R217 for EXACTLY the same voltage as measured in step 9 (unity gain). 13. Monitor the QUANTIZED OUTPUT B with a DVM. 14. Adjust trimmer R218 for EXACTLY the same voltage as measured in step 9 (unity gain).