114 CALIBRATION OUTLINE

PRESETS	
Period	1 usec
Variable	Cal
Width	100 nsec
Variable	Cal
Amplitude	+3 to 10
Variable	CW
Trigger	Leading Edge

← EXT. TRIG. FOR RIPPLE CHECK

← SQ. WAVE FOR RIPPLE CHECK

1. Adjust 25v supply (R290) (C298 minus terminal)

   Tolerance ±0.5v
   Ripple 10mv
   Regulation ±0.5v (94.5 to 137.5 vac line)

2. Check D209 (3v ± ½v) (CHECK ACROSS D209)

PRESETS	
Width	1usec
Period	100usec

3. Adjust Period Cal (R125)

   Display alternately with 100usec marks and adjust to within ½%

PRESETS	
Period	1usec
Width	100nsec

4. Adjust 1usec period (C115F)

   Display alternately with 1usec marks and adjust to within 3%

5. Check other period ranges (±3%)

6. Check period variable for operation and 10:1 range

PRESETS	
Period	1ms
Width	1ms

7. Adjust width cal (R180)

   Positive pulse width of 1msec as compared to 184 marks.

8. Check Width > Period light is on.

PRESETS	
Width	100nsec
Period	1usec

9. Adjust 100nsec pulse width (C195F)	Compare to .1usec 184 marks and adjust to within 3% at 50% points
10. Check other width ranges ($\pm$3%)	
11. Check width variable for operation and 10:1 range	

PRESET	
Width	Square wave

12. Square wave mode check	Symmetrical square wave. Period within 5%.
13. Check amplitude into 50 ohm	Minimum range as marked on front panel
14. Trigger Output	3 volts $\pm$ 1v into 1m, 0.4-0.7v into 50 ohm
15. Check trigger output switch from leading to trailing edge.	
16. Check external trigger input	184 1usec marks. Should control period
17. Check pulse aberations	$\pm$5% both + & - pulses at max amplitude.
18. Check risetime	Less than 13nsec into A 50 ohm termination as read on a 544/1A1 system.