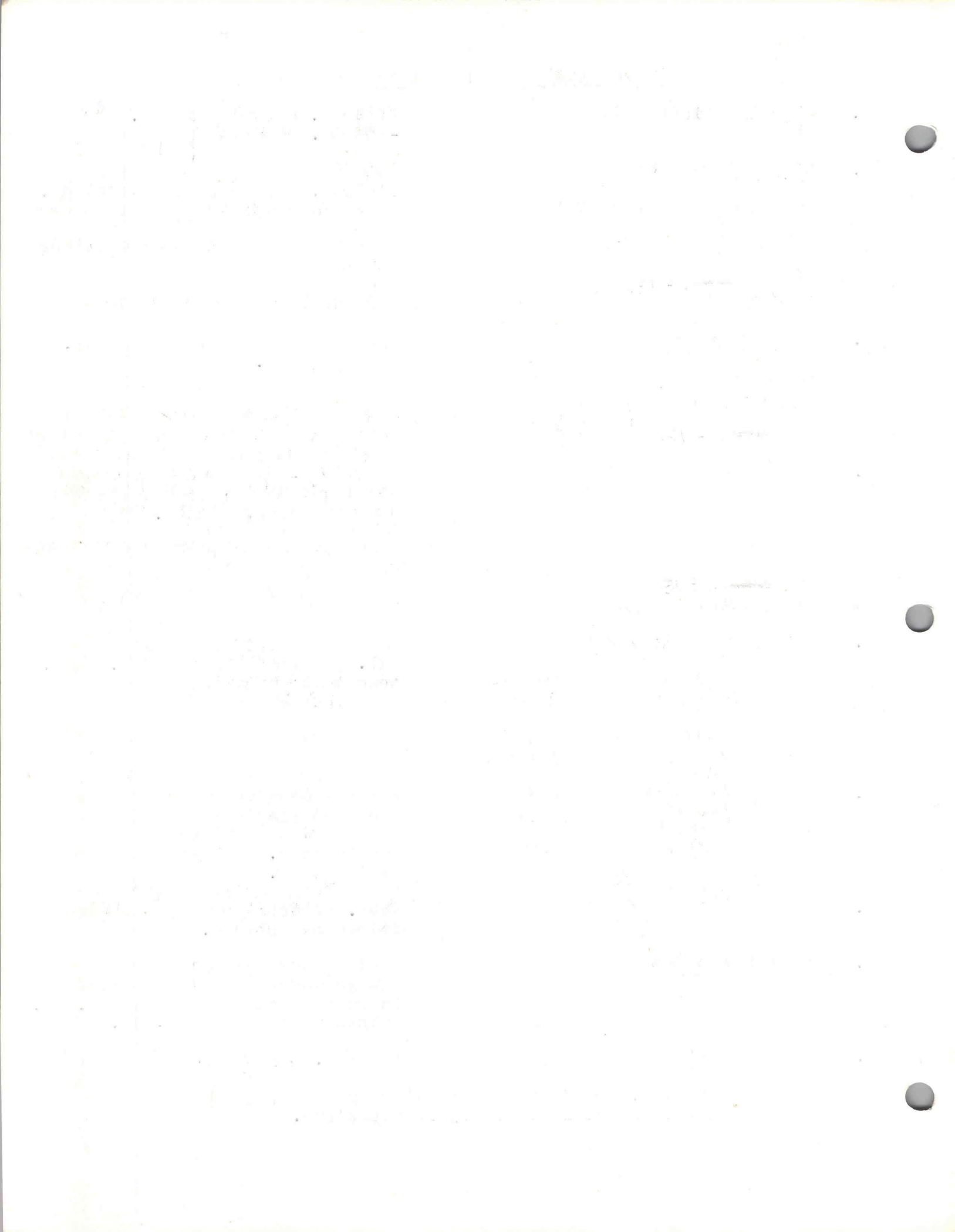


3T4 Calibration Outline

1. Power Supplies +19V \pm .27V Ripple 7mv.
-19V \pm .27V " "
2. Trigger Sens Range (R16) Trigger level free run at 2 o'clock, shut off at 12 o'clock.
- Presets
- | | |
|---------------------------|--------|
| Sweep Mode | Manual |
| Trigger Sens <i>LEVEL</i> | cw |
| Time/Div | 10ns |
3. Gain Adj (R301) Fluke Sweep Out over 10cm \pm 1%. Same as 3T77.
- Presets
- | | |
|------------------------|-----|
| Trig Sens <i>LEVEL</i> | ccw |
|------------------------|-----|
4. Invert in Zero (R70) 0V at J53-12 (Logic card connector pin 12) CAUTION: High Volts either side of pin 12.
- Presets
- | | |
|------------------------|--------|
| Trig Sens <i>LEVEL</i> | cw |
| Sweep Mode | Normal |
5. Staircase DC Level (R263) Same beam starting position in Ext. & Normal sweep modes. (Man. Scan ccw)
- Presets
- | | |
|------------|-----|
| Trig Level | ccw |
|------------|-----|
6. Staircase Attenuator Zero (R60) Adj for minimum signal at terminal K on J53 (Logic card connector) while rotating Time/Div from 1ns to 10ms. Max deviation from 0V is \pm 85mv.
7. Comparator Level (R130) Use .5us markers & adj leading glitch off screen.
8. Delay Zero (R99) Leading edge of pulse waveform always moves to left as Time/Div is rotated ccw from 10ns to .1us. Maintain registry to .1us.
9. Sweep Cal (R110) 10us/cm. *DELAY MUST BE AT \approx 2.50*
- NOTE: Steps 7, 8, & 9 interact just like in a 3T77 so repeat until no further adj is necessary.



3T4 Calibration Outline (cont.)

10. Mag Registration (R341) Proper centering of magnified & normal displays.
11. Sweep Length (R245) 10.5cm
12. Fast Ramp Capacitor (C124) 10ns/cm. Delay must be about 2.50
13. 1000 Dots/Div (C258C) 1 row of dots (1us/cm displaying 10ns.)
14. 100 Dots/Div (C258A) Same as #13. 2.5 cycles max.
- Presets
- Delay 0.00
15. Internal Delay Cal (R85) Display 50mc at 5ns/cm. Set top of 3rd peak behind 9th graticule with the horiz. posit. control. Turn Delay & count 50 peaks or 1us & adj R85 so the 50th peak coincides with 10.00 on the Delay pot & is behind the 9th grat line. Repeat until no further adj is necessary.
16. Timing Accuracy +2%
17. Check Digital Functions
- | 3T4
Time/Div | Decimal
Point | Special Purpose
NIXIE |
|-----------------|------------------|--------------------------|
| 1ns | 0.000 | ns |
| 2-10ns | 00.00 | ns |
| 20ns-.1us | .0000 | us |
| .2us-1us | 0.000 | us |
| 2us-10us | 00.00 | us |
| 20us-.1ms | .0000 | ms |
| .2ms | 0.000 | ms |
18. External Delay Cal (R80) This step requires a special remote control unit. Consult manual for details.
19. Check Single Sweep

