

16. Focus alignment for P2

- A. Servos are active (setup)
- B. Determine focal plane by looking through IR viewer for 1st purk then find focal plane with external object and place detector at that plane.
- C. Move mounting plate around for equal signals (maxed) at pin 1,2 on card 8 (keeping detector at the square with mounting block)
- D. Look at pin 3, card 8 to see difference signal and adjust R4 for null
- E. Set R5 for -5V at TP6

17. Set 1st light level

- A. Set additional .2 ND filter for use with alignment
- B. Adjust R35, board1 for -5V on meter select 1st LL with servos on and locked

**Note: Too much 1st LL will result in noisy, jerky operation. Be sure and not exceed -5V**

18. P3 adjustment (4th purk)

- A. Servos are active
- B. See that L12 is coaxial with center locations of spring mounts in H and V directions
- C. With P4 out, view intrabeam
- D. Adjust M15 so that image is in center of aperture. Readjust M14 only if you can't center M15.

**Note: If there is not enough range, adjust M14 for center of aperture**

- E. Find focal plane of P4 and put detector at this point.

**Note: Extenders have been utilized for focal planes too far out for existing detector housings.**

- F. Look at amplitude of P4 on front panel meter and adjust MH, MV for maximum on meter.

**Note: If focal plane of P4 is too far out, L9 can be moved closer to BS1 to bring focal plane in closer, but 1st purk and focus must be readjusted. 4th LL set up for -5V with front panel 4th LL pot at 2.5 on its scale. Use R2, card 1.**

- G. Set 4th LL