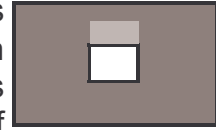
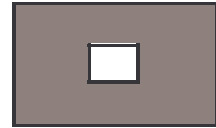


# Adjusting Shutter Timing in TVT-8 and TVT-8H, J, M Models

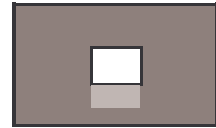
1. Travel ghost is **above** bright objects. This means the camera's electronic shutter is closing late. Move the flying lead to a header pin one step towards the right. The orange, red and brown flying leads control the 1.5x, 1x and .5x speed timing respectively. If you run out of pins start over from the left. (Think of them as being in a circle.)



2. Correct shutter phasing adjustment. Check at all 3 speeds.

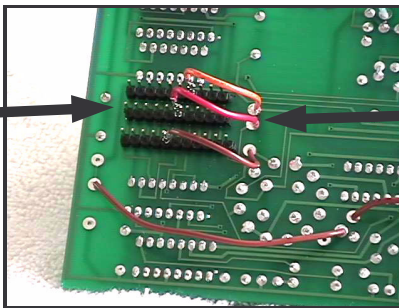


3. Travel ghost is **below** bright objects. This means the shutter is opening early. Move the correct flying lead for that speed to a header pin towards the left. If you run out of pins start over from the right. (But don't use the 11th pin on the bottom row.)



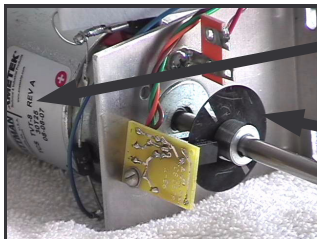
Male Headers

1.5x speed  
1x speed  
.5x speed



Flying Leads

Orange 1.5x  
Red 1x  
Brown .5x



Drive Motor

Chopper Disc

With NTSC models, the steps on the header may be too coarse to completely eliminate travel ghost at the highest (1.5x) speed. In this case use the closest jumper setting, run film for 20 seconds and then observe the slight blurring. If the blurring is above the object, stop running, hold the drive motor shaft to prevent turning, and turn the chopper disc a few degrees counter-clockwise against the shaft. If the blurring is below the object, instead turn the chopper disc a few degrees clockwise. Check the settings by running for 20 seconds again at each speed and see if the travel ghost is gone.

Note: the 11th pin on the bottom header row is used with the factory jig. It is connected to the wiper of a 10-position rotary switch, with each contact wired to a female header contact in sequence. This switch makes it more convenient to select settings, which are then put into effect with the flying leads and headers.