

## **24" TELESCOPE NEWTONIAN COLLIMATION PROCEDURE**

This process assumes the Cassegrain has been previously collimated

1. Place the Hotech alignment tool in the top 4shooter position and adjust it so the beam hits the centre mark on the Cassegrain secondary mirror.
2. Flip the secondary mirror to the Newtonian position.
3. Remove the ST10 camera.
4. Insert the 2" plastic blank with crosshair markings into the outermost Newtonian focuser hole.
5. Center the beam on the plastic blank by adjusting the Newtonian mirror.
6. Move the plastic blank to the innermost focuser hole and center the beam by adjusting the focuser plate on the four mounting rods. Move the plastic blank to the outermost focuser hole and recheck the beam for centering. Reposition the focuser plate laterally if necessary.
7. Repeat steps 4 – 6 until the beam is centered in both focuser hole positions.
8. Move the collimator to the Newtonian focuser hole after removing the 2" plastic blank.
9. Insert the 2" plastic blank with crosshair markings into the top 4shooter port and verify the beam is close to the center.
10. Reinstall the ST10 camera.
11. Check the ST10 camera for focus. If focus cannot be achieved, loosen the rod/focuser plate bolts and slide the focuser plate along the support rods accordingly.
12. Repeat steps 3 – 9 to re-attain collimation.