

Testing Photo-Eye Circuit

02-25-02

1. Unplug unit.
2. Remove shroud covering the photo-eye.
(Follow the yellow wires from the control board up to find the photo-eye.)
3. Insert jumper wire inline with photo-eye. (See photo)
4. Attach multi-meter to test jumper wire. (See photo)
5. Set multi-meter to *<20 Volts DC*.
6. Plug in unit,
7. Press the start button. When the fire has lit and the stove is no longer in the *Start Mode* (the stove has entered the *Demand Mode*),
8. Make sure the stove is running on the low Heat setting.
9. Record the reading on the meter. It should be under read under 2.4 volts most of the time.
10. If the meter reads above 2.4vDC often, the slot the eye looks through may be blocked. Clean using brush.
11. If the meter reads above 2.4vDC often, the photo-eye lens may be dirty. Clean using cotton swab.
12. If the meter reads above 2.4vDC often, the eye may not be aimed correctly. Try moving the photo-eye by bending the bracket up, down and to both sides. As you move the eye / bracket, monitor the reading on the multi-meter. If the reading starts to drop, continue moving in that direction until you are not able to achieve a lower reading. Try for the lowest possible reading.
13. When you are satisfied with the results, shut down the unit and reassemble.