



Finish Control Photocell Operations

Power on:

- Mount the photocells on their tripods and place them across the road from one another at the flying finish. Turn them on. The Reflector unit can be set at "Low" unless you are sending the signal an unusually long distance like 80 meters. The Emitter unit only has on or off.
- Align the units so that the beam of light from the Emitter is reflected directly back and the light appears to go out. Use the grooves in the tops of the units as sights. The tripod is very flexible, and may be adjusted in all planes. (This is not a difficult process, but it may take patience to get them aligned properly.)
- Tighten all the connections on the tripod so that the units cannot be jostled out of alignment.

Connect photocell to clock:

- Attach the reel of wire to the Emitter unit, green plug to green socket and black to black.
- Unspool the wire and connect the remaining set of plugs to the clock; again, green to green and black to black. Each spool of wire is 1000 feet or roughly 0.2 miles. You may need to run two or even three in series to reach the timing car from the finish line.
- **OR**
- Plug the wires from the radio transmitter unit into the back of the Emitter unit, as before, green to green and black to black.
- Attach the power cord from the radio transmitter to the battery box.
- Screw on the antenna.
- Position the radio transmitter and battery as far out of the road as the cords will allow.
- Place the radio receiver on the roof of the timing car and attach the antenna.
- Insert the power cord from the radio receiver into the timing car's cigarette lighter outlet.
- Plug the white wires into the back of the clock, plugs labeled "2", green to green and black to black.

Test:

- After all finish control equipment is set up and turned on, break the light beam at the flying finish and insure that it causes the clock to record a time. If yes, you're ready to go! If not, check your photocell alignment first, then go back through these procedures to see that all is connected properly.

Problems or Questions:

Contact Beryl Ann or Bruce, at 612-529-6821 (non-event) or during the event, 612-750-5039 or through the radio net.