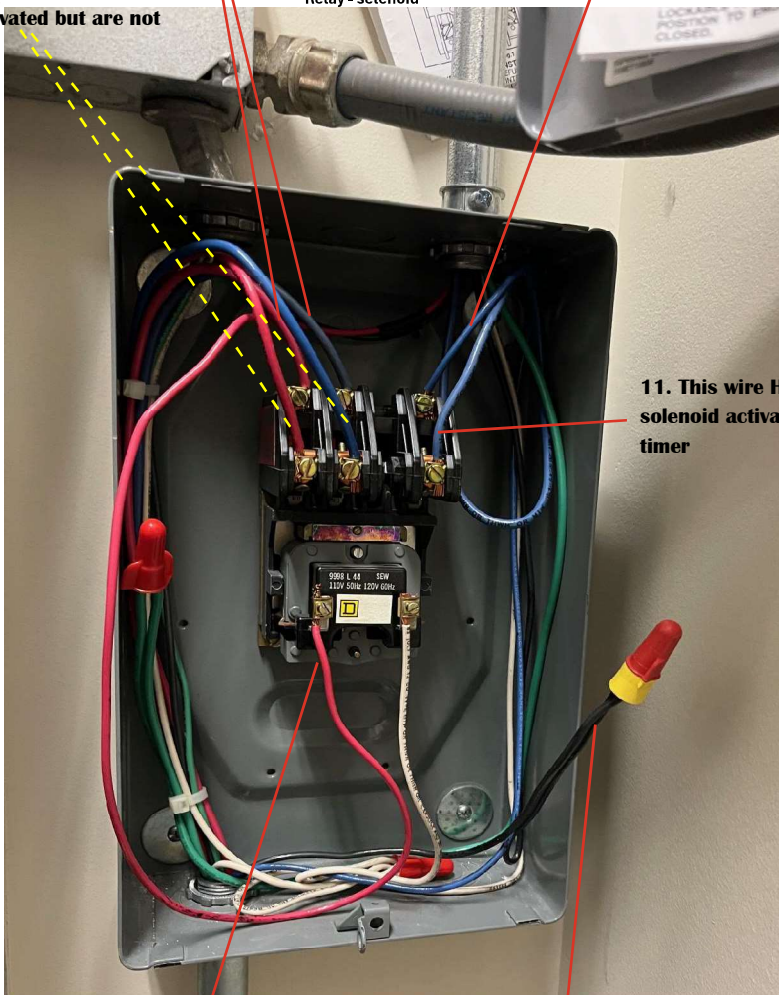


4. These 2 wires are NOT hot  
(but probably should be)

5. These 2 wires should be  
hot when solenoid  
activated but are not

Relay - solenoid

3. This blue wire is always hot



11. This wire HOT when  
solenoid activated by  
timer

6. This black wire is always hot  
(connected to breaker #31)

(A)

7. Solenoid engages when the timer goes off

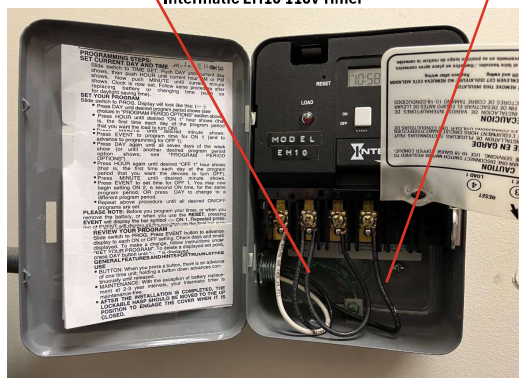
8. This red wire always hot.  
This is unexpected behavior as  
hot even when sun out (does not appear  
that photo-cell is working?)

1. This black wire is always hot  
(connected to breaker #37)

(A)

2. This black wire is hot when  
timer is engaged

Intermatic EH10 110v Timer



2 dusk-to-dawn sensors outside by north door



9. Black wire always hot

10. Red wire is hot when photo-cell is darkened (no light sensed)  
This is expected behavior and engages wire at night.

**NOTE: It is unexpected that wires noted at 4 above are not energized (hot)**  
**When solenoid activates (relay engaged) it is expected that wires noted at 5**  
**would then get energized but nothing happens (as no power coming from**  
**wires noted at 4).**