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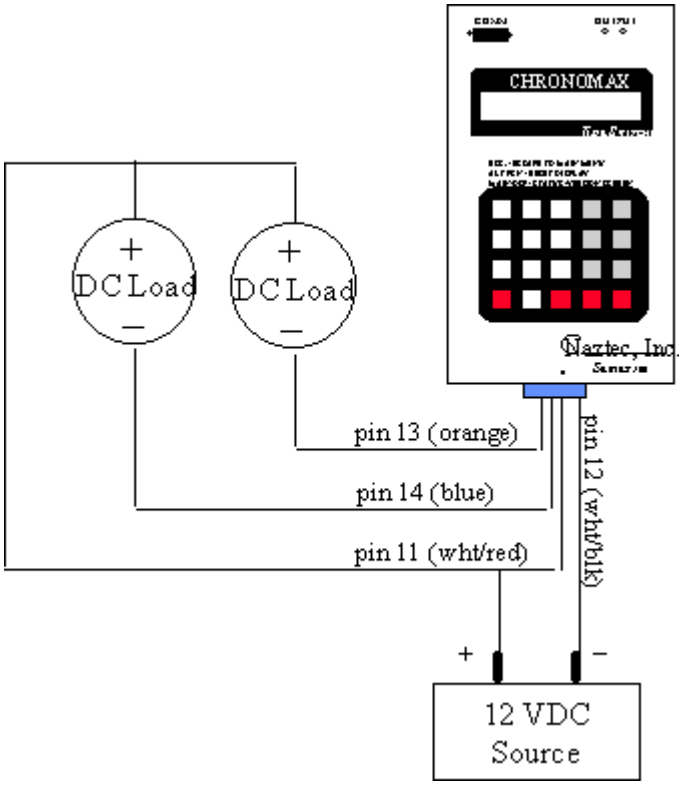
TecNote 2007 – Using the Internal DC Flasher

The Chronomax Time Switch comes with a dual output DC flasher. This permits the user to eliminate an additional component and the extra space required for an external flasher. The internal DC flasher provides a ground path for the load. Therefore, the positive side of the load must be connected to the positive supply (+12VDC) and the negative side of the load must be connected to the flash outputs (pin 13, 14 – blue, orange wire). Close attention should be paid, as incorrectly choosing the polarity can destroy the DC Flasher.

The internal DC Flasher operates by providing a ground path for the load. The flasher switches from a high impedance state, to a conducting state. If the flash outputs are connected directly to the positive voltage source, or the load current is too high (greater than 3A), the internal DC Flasher WILL BE DESTROYED.

When operating the time switch in this mode, it is advisable to disable the internal relay, and set the unit duty cycle to 40-50%. Leaving the internal relay active will not adversely affect the unit's operation, but it will generate unnecessary wear on the relay.

The following diagram illustrates the proper way to connect a time switch in order to utilize the DC outputs.



WARNING: Verify all connection before applying power.
Improper connections could result in destruction of equipment.

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