AIRSTREAM™

Understanding the Power on Light for Univolt

I. The power on light is not wired to positive voltage on one side and negative on the other.

A. Checking the wires to the light with the trailer unplugged will show positive battery voltage on both wires. Since the voltage is the same on both sides of the bulb there is no current flow through the filament and it does not glow.

1. The positive battery voltage on one side comes direct from the battery. The positive battery voltage on the other side comes from the battery, through the univolt, and out the power on light circuit to the bulb.

II. The power on light is wired with one side to positive battery voltage, and the other side to the power on light circuit of the univolt.

A. Checking the wires to the light with the trailer plugged in will show univolt/battery DC voltage on one side and univolt unrectified AC voltage on the other. The reading will practically be the same except one is DC and the other is AC. ie: 12.6 + DC one side versus 12.6 AC on the other side. Since there is a voltage potential difference between the wires there is a current flow through the filament and the bulb will glow.

1. The positive DC battery current on one side comes direct from the battery. The AC current on the other side comes from the transformer windings on the univolt before the current is rectified.