

Forest River SDC-107A BCC Test Procedure

12/24/08

Test equipment required:

Adjustable 11-14vdc @ 3amp power supply with digital readout.

High impedance voltmeter.

Automotive test lamp.

Clip leads, connector pins, etc. as required.

Specification and tolerance:

Interconnect relay close: 13.2VDC +/- 0.1V

Interconnect relay open (from closed position): 12.7VDC +/- 0.1V

Procedure (chassis battery side):

Connect power supply, adjusted to 12v, to Chassis Bat stud (+) and P1 (gnd). Verify with the test lamp that power exists at P3-6. In addition, connect the power supply + lead to P3-2. K2 should close and the test lamp should verify power at P3-3, P3-4 and P3-5. P3-6 will now be unpowered.

With the high impedance voltmeter connected to the test point pad [between R2 (the potentiometer in upper left corner) and C5 on the circuit board] and ground, slowly increase the power supply voltage. When the test point goes "high" (around 12v), note the voltage on the Chassis Bat stud. It should be within the range 13.2V +/- 0.1V. The interconnect relay should pull in after a delay of around 10 sec. Make the voltage measurement before the interconnect relay pulls in to ignore voltage drops due to the ½ ampere draw of the relay. Slowly decrease the power supply voltage. When the test point goes "low" (around 0.2v), note the voltage on the Chassis Bat stud. It should be within the range 12.7VDC +/- 0.1V. The interconnect relay should drop out after about 10sec. As before, make the voltage measurement before the relay drops out.

Procedure (coach battery side):

Connect the power supply, adjusted to 12v, to the Coach Bat stud (+) and P1 (gnd). Clip leads connected to the 12v supply can be used to engage and disengage the coach battery disconnect by using the GREY and VIO terminals. Using the test lamp (with the disconnect engaged), check for power at P4-1 through P4-5.

With the high impedance voltmeter connected to the test point pad (between R2 and C5 on the circuit board) and ground, slowly increase the power supply voltage. When the test point goes "high", note the voltage on the Coach Bat stud. It should be in the range 13.2VDC +/- 0.1V. The interconnect relay should pull in after a delay of around 10 sec. Again, make the voltage measurement before the relay pulls in.