



Test Procedure for the NCV7685LOWR1GEVK Evaluation Kit

Initial setup:

1. Connect jumper OL1
2. Return function switches to default OFF position on the BCM board
3. Turn OFF the KEY switch
4. Connect Cables for CON-FCN, CON-KEY and CON_DIAG

Required Equipment:

- Bench power supply with A-meter with minimum current limit of 2A
- Multimeter
- NCV7685LOWR1GEVB board
- NCV7685BCMR1GEVB board

Test procedure (Low-End Variant)

5. Connect setup as shown above
6. Apply 14V using the Battery input DC connector.
7. By default, no current consumption is expected.
8. By activation the TAIL switch, the appropriate LEDs on the NCV7685LOWR1GEVB module should be turned ON.
9. The Green indication diodes D100, D101, D103 should be turned ON. The current consumption should be around 114 mA
10. If all functions are activated, then the current consumption is around 815 mA at 14V.

Test procedure (Open Load condition)

1. Apply 14V on the supply connector.
2. Activate the STOP button.
3. Open the OL1 jumper to emulate the Open Load condition
4. The Fault status will be propagated to the BCM module by red indication LED.