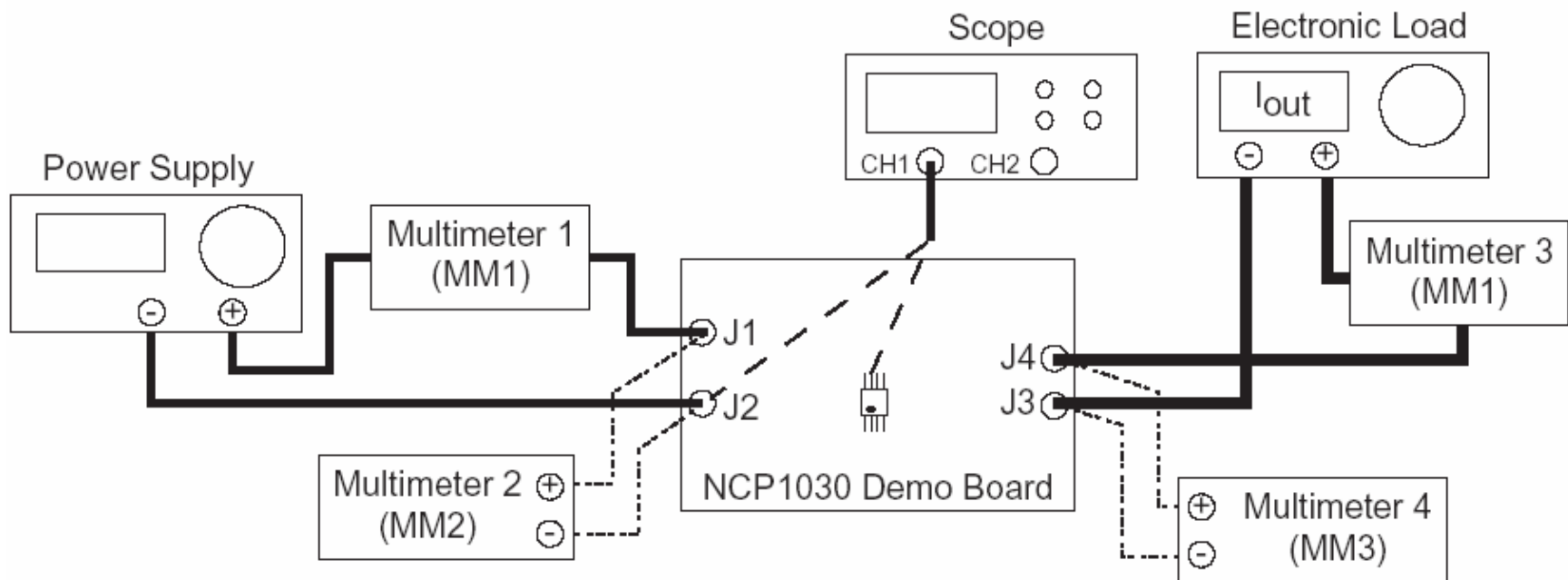




### Test Procedure for the NCP 1030EVb

08/03/2004



**Table 1: Required Equipment**

Equipment	Quantity
Dual Channel Oscilloscope	1
Keithley 179A Multimeter or Similar	4
Test Leads	4
Positive and Negative Probe Leads for the Oscilloscope	1
KIKUSUI PLZ303W Load	1
(76V, 1A) Power Supply	1
NCP1030 Evaluation Board	1

**Test Procedure:**

- 1. Connect the test setup as shown above.**
- 2. Apply an input voltage,  $V_{IN} = 25V$  across J1 and J2.**
- 3. Check the switching waveform at scope CH1 to see whether the start-up circuit is enabled.**
- 4. Apply an input voltage,  $V_{IN} = 36 V$  across J1 and J2. Measure the output voltage across J4 and J3. It should be approximately 12 V.**
- 5. Apply 175 mA loading from the electronic load after powering up the demo board.**
- 6. Measure  $V_{IN}$ ,  $I_{IN}$ ,  $I_{OUT}$ ,  $V_{OUT}$ .**
- 7. Increase  $V_{IN}$  to 80 V. The output should turn OFF.**

**Table 2: Desired Results**

**$V_{IN} = 36 \text{ V}$**   
 **$I_{IN} = 70 \text{ mA to } 80 \text{ mA}$**   
 **$V_{OUT} = 11.1 \text{ V to } 11.5 \text{ V}$**

**$V_{IN} = 48 \text{ V}$**   
 **$I_{IN} = 50 \text{ mA to } 60 \text{ mA}$**   
 **$V_{OUT} = 11.1 \text{ V to } 11.5 \text{ V}$**

**$V_{IN} = 76 \text{ V}$**   
 **$I_{IN} = 30 \text{ mA to } 40 \text{ mA}$**   
 **$V_{OUT} = 11.0 \text{ V to } 11.5 \text{ V}$**