## **Test Procedure for the NCP345/6 Evaluation Board** 8/27/03

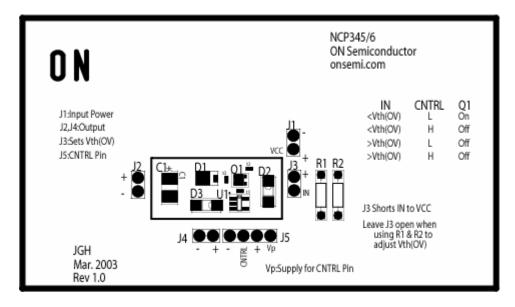


Figure 1: NCP345/6 Demo Board Assembly Drawing

Refer to Table 1 for bolded test values in the following procedure.

- 1) Connect jumper to J3.
- 2) Connect jumpers between CNTRL and pins on J5.
- 3) Connect 50 Ohms to J2 if D3 is unpopulated, otherwise connect to J4.
- 4) Apply V1 to J1 + and pins.
- 5) Measure voltage at J2 if D3 is unpopulated, otherwise connect to J4. It should equal V2.
- 6) Apply V3 to J1 + and pins.
- 7) Wait 1 second.
- 8) Measure voltage at J2 if D3 is unpopulated, otherwise connect to J4. It should equal V4.
- 9) Apply V1 to J1 + and pins.
- 10) Apply **V5** between Vp on J5 and any open pin on the board.
- 11) Connect jumper from step (2) between the CNTRL and + pins on J5.
- 12) Measure voltage at J2 if D3 is unpopulated, otherwise connect to J4. It should equal V4.

**Table 1: Test Values** 

	NCP345SNT1	NCP346SN1T1	NCP346SN2T1	Unit
V1	6	4	5	V
V2*	6	4	5	V
V3	8	5	6	V
V4**	0	0	0	V
V5	2	2	2	V

<sup>\*</sup> This is the power supply voltage minus the voltage drops across Q1 and D1. It might measure slightly lower than V1.

<sup>\*\*</sup> Since C1 is a large capacitor a load (specified in step (3) is required for the voltage to decay to 0V in a timely manner for functional testing.