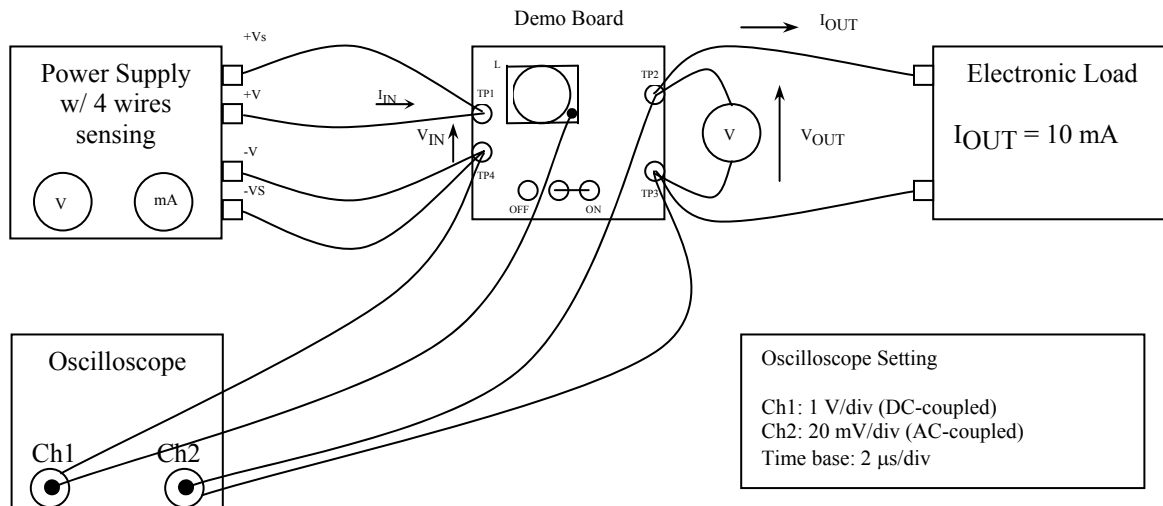


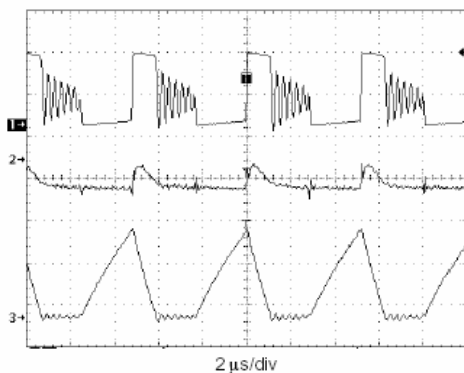
NCP1400A Demo Board Test Procedure



1. Connect the test setup as shown above.
2. Apply an input voltage, $V_{IN} = 1.5$ V across TP1 and TP4.
3. Set the electronic load to 10 mA.
4. Check I_{IN} , V_{OUT} , and output Vripple;

Device Voltage Option	I_{IN} (V); Min / Max Range	V_{OUT} ; Min / Max Range	V_{RIPPLE} ; Typical
1.9 V	15.4 mA to 16.3 mA	1.853 V to 1.948 V	11 mV _{p-p}
2.5 V	20.3 mA to 21.4 mA	2.438 V to 2.563 V	12 mV _{p-p}
2.7 V	21.9 mA to 23.1 mA	2.633 V to 2.768 V	13 mV _{p-p}
3.0 V	24.4 mA to 25.7 mA	2.925 V to 3.075 V	15 mV _{p-p}
3.3 V	26.8 mA to 28.2 mA	3.218 V to 3.383 V	16 mV _{p-p}
5.0 V	40.6 mA to 42.8 mA	4.875 V to 5.125 V	17 mV _{p-p}

5. Check the switching waveform at scope Ch1 to see whether it is a normal discontinuous conduction mode switching node voltage waveform. And check the frequency of the waveform, F_{SW} , it should be 144 kHz to 216 kHz.



$V_{OUT} = 3.0$ V, $V_{in} = 1.2$ V, $I_O = 10$ mA., $L = 22$ μ H, $C_{OUT} = 68$ μ F
 1. V_{LX} , 2.0 V/div
 2. V_{OUT} , 20 mV/div, AC coupled
 3. I_L , 100 mA/div