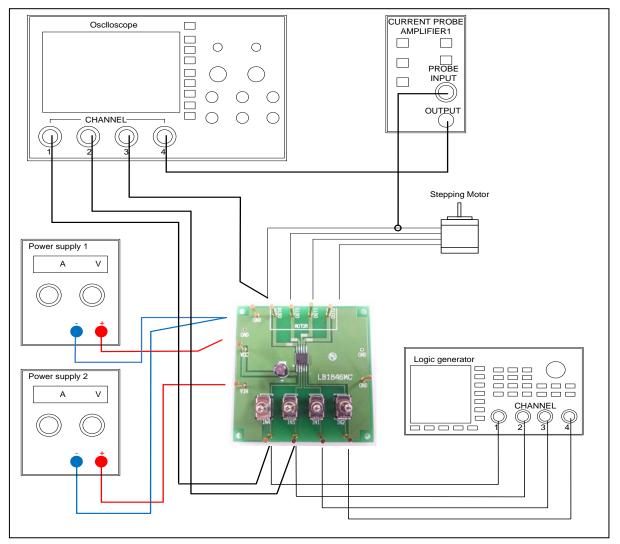




# **Test Procedure for the LB1846MCGEVB Evaluation Board**

01/08/2012

# For stepping motor control



Equipment	Efficiency
Power supply1	12V-1A
Power supply2	5V-0.5A
Logic generator	
Oscilloscope	4 channel
Current probe1	
LB1846MC Evaluation Board	
Stepping Motor	5V-0.2A

# **ON Semiconductor®**



#### **Test Procedure:**

- 1. Connect the test setup as shown above.
- 2. Set it according to the following guide.

[Supply Voltage]	VCC (2.5 to 7.5V) : Power Supply for LSI VIN (2.5 to 7.5V) : Logic "High" voltage for toggle switch
[Toggle Switch State]	Upper Side: High (VIN) Middle: Open, enable to external logic input Lower Side: Low (GND)

[Operation Guide]

- 1. Initial Condition Setting: Set "Open" the toggle switches IN1-IN4.
- 2. <u>Power Supply:</u> Supply DC voltage to VCC and VIN.
- 3. <u>Motor Operation:</u> Input the signal which is in condition to want to operate Full-step , Half-step into IN1-IN4.

3. Check the IN1 , IN2 and OUT1 terminal voltage at scope CH1 , CH2 and CH3, and the output current waveform at scope CH4.

Table2: Desired Results

INPUT	OUTPUT
VCC=5V	* Refer to the following waveform
VIN=5V	
IN1-IN4=Full-step or Half-step signal	

Typical current waveform

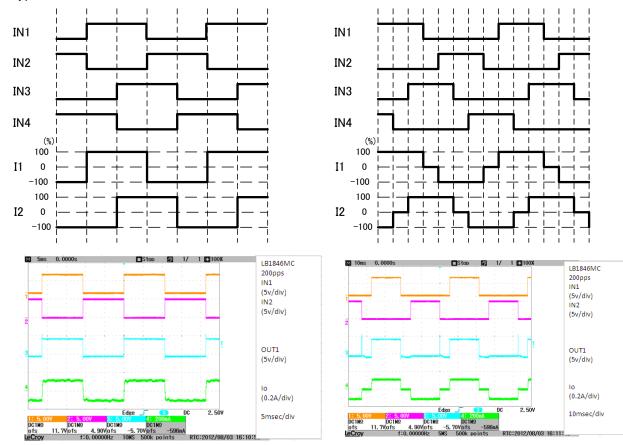
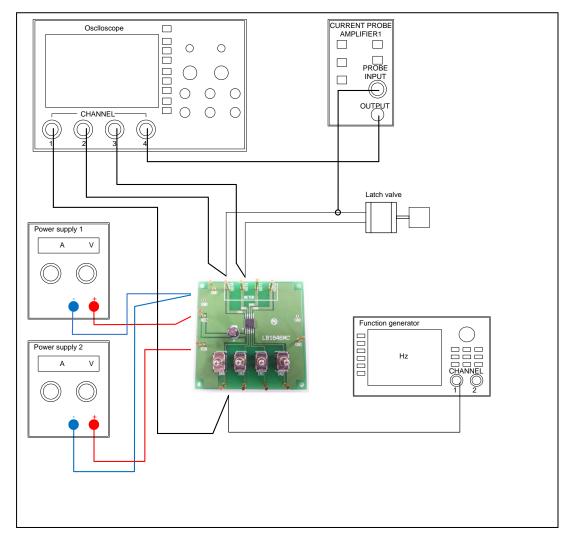




Fig full-step waveform

## For Latch valve control



## Table1: Required Equipment

Equipment	Efficiency
Power supply1	12V-1A
Power supply2	5V-0.5A
Logic generator	
Oscilloscope	4 channel
Current probe1	
LB1846MC Evaluation Board	
	3.6V-0.3A





### **Test Procedure:**

- 1. Connect the test setup as shown above.
- 2. Set it according to the following guide.

[Supply Voltage]	VCC (2.5 to 7.5V) : Power Supply for LSI VIN (2.5 to 7.5V) : Logic "High" voltage for toggle switch
[Toggle Switch State]	Upper Side: High (VIN) Middle: Open, enable to external logic input Lower Side: Low (GND)

[Operation Guide]

- <u>Initial Condition Setting:</u> Set "Open" the toggle switches IN1-IN4.
  <u>Power Supply:</u> Supply DC voltage to VCC and VIN.
  <u>Motor Operation:</u> Input the signal which is in condition to want to operate Full-step , Half-step into IN1-IN4.

3. Check the IN1, IN2 and OUT1 terminal voltage at scope CH1, CH2 and CH3, and the output current waveform at scope CH4.

Table2: Desired Results

INPUT	OUTPUT
VCC=5V	* Refer to the following waveform
VIN=5V	_
IN1-IN4=Full-step or Half-step signal	



Typical current waveform

