



SANYO Semiconductors
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Test Procedure for the LB1909MCEVB Evaluation Board

For stepping motor control

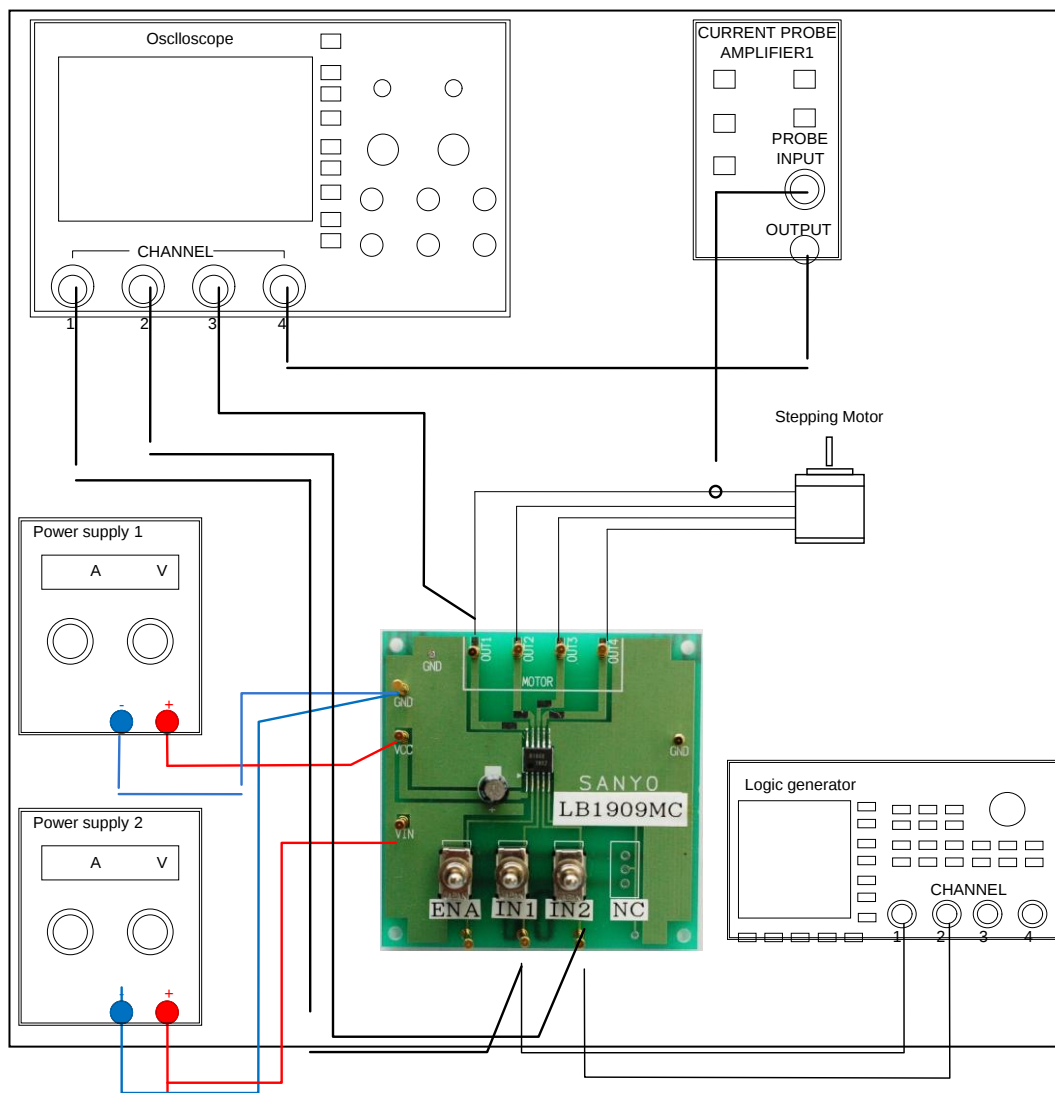


Table1: Required Equipment

Equipment	Efficiency
Power supply1	25V-3A
Power supply2	10V-0.5A
Logic generator	200kHz
Oscilloscope	4 channel
Current probe1	-
LB1909MC Evaluation Board	-
Stepping Motor	25V-2A

Test Procedure:

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

[Supply Voltage] VCC (2.5 to 16V) : Power Supply for LSI
 VIN (1.8 to 10V) : 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]

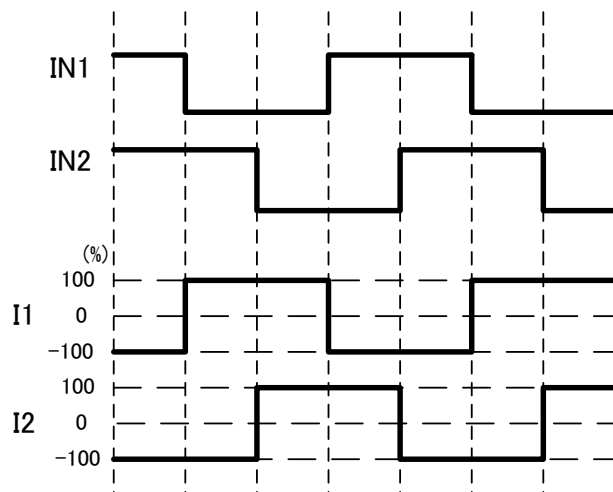
1. Initial Condition Setting: Set "Open" the toggle switches ENA , IN1 and IN2.
2. Power Supply: Supply DC voltage to VCC and VIN.
3. Ready for Operation from Standby State: Turn "High" the ENA terminal toggle switch.
4. Motor Operation: Input the signal which is in condition to want to operate into IN1 and IN2.

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=12V VIN=5V ENA=H IN1 , IN2=Full-step signal	* Refer to the following waveform

Typical current waveform



LB1909MC Full-Step(VCC=12V, 200pps)

