

Test Procedure for the LB1909MCGEV B Evaluation Board

For stepper motor control

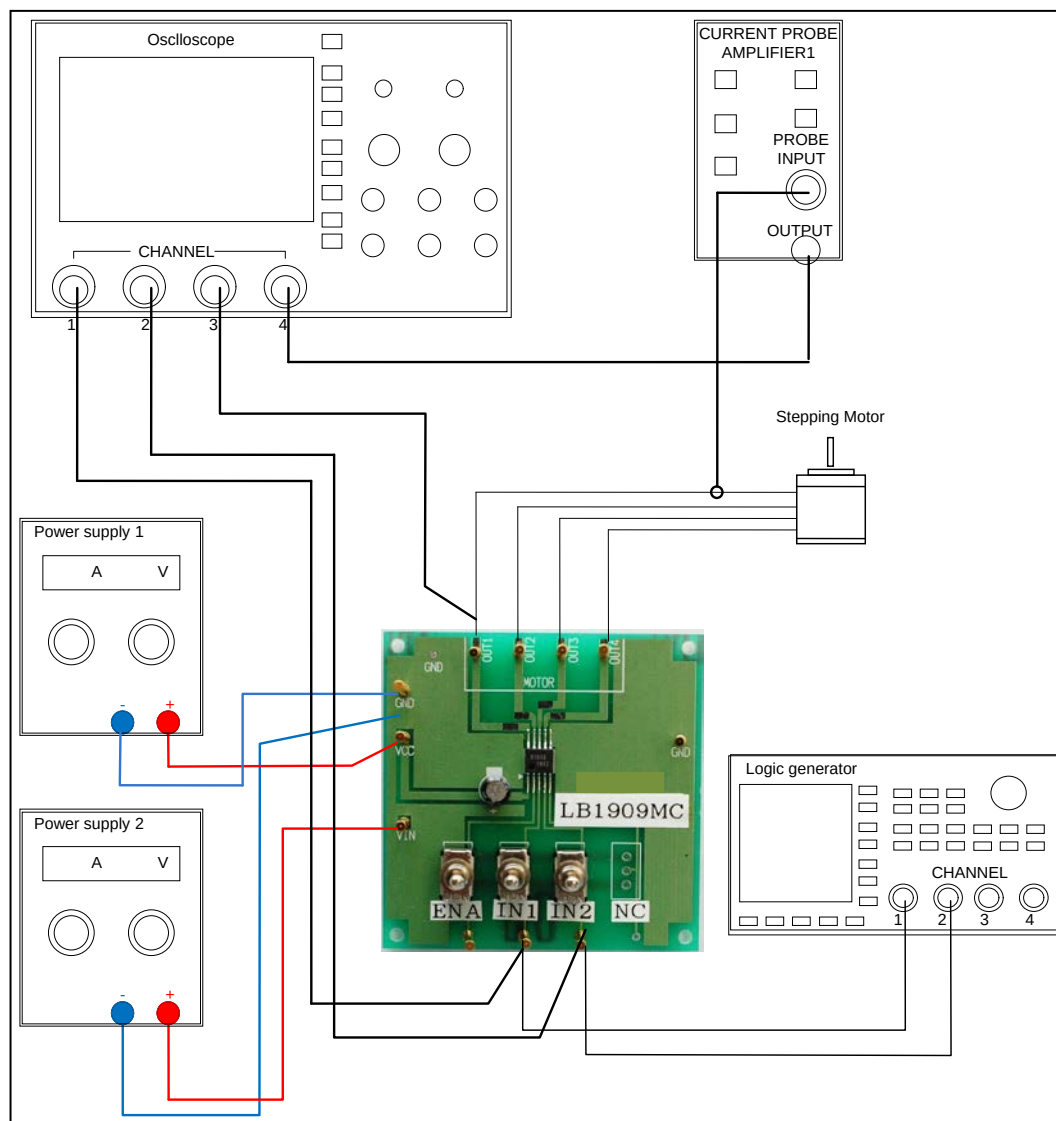


Table1: Required Equipment

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

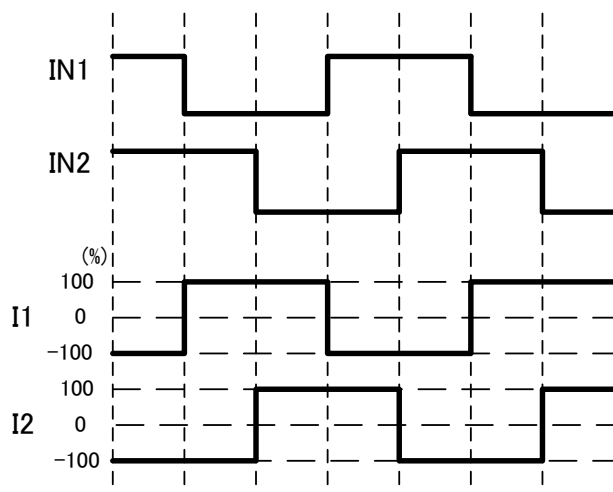
1. Initial Condition Setting: Set "Open" the toggle switches ENA, IN1 and IN2.
2. Power Supply: Supply DC voltage to VCC and VIN.
3. Ready for Operation from Standby State: Turn "High" the ENA terminal toggle switch.
4. Motor Operation: Input the signal which is in condition to want to operate into IN1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

