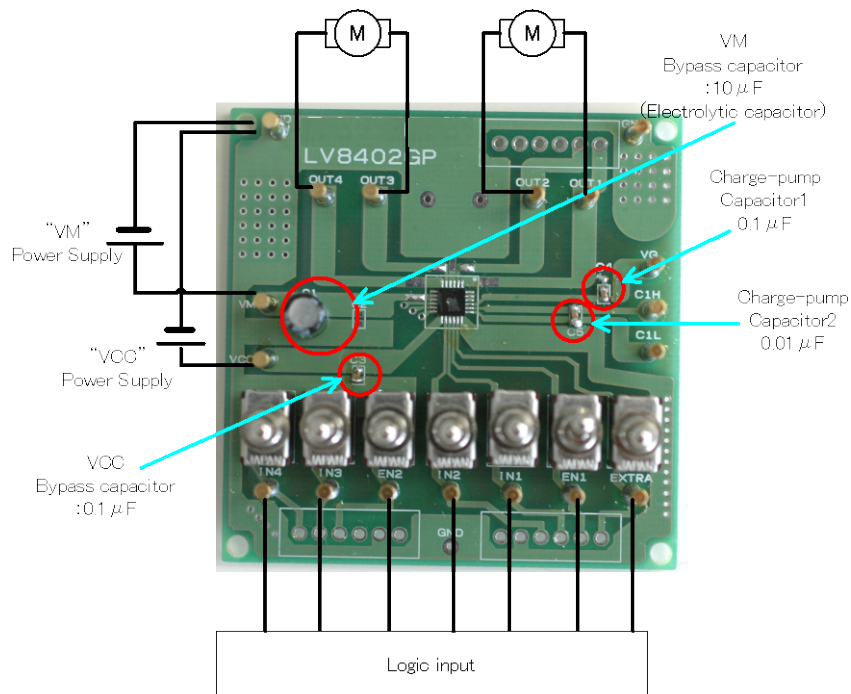


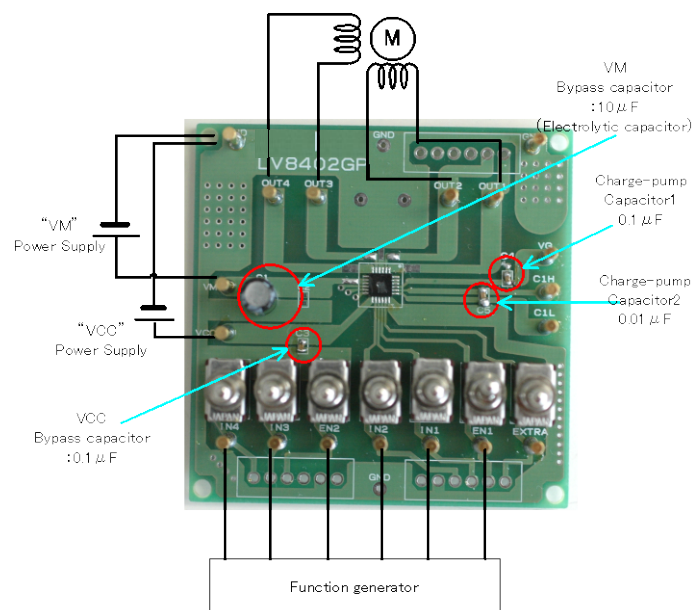
Test Procedure for the LV8402GPEVB Evaluation Board

Two DC Motor Driver:



LV8402GP (57.0 mm $\times$ 57.0 mm $\times$ 1.6 mm, glass epoxy 2-layer board)

One Stepper Motor Driver:





Supply Voltage:

- VCC (2.8 to 5.5V): Control voltage Supply for LSI
- VM(1.5 to 15V): Power Supply for LSI
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Toggle Switch State:

- Upper Side: High (VCC)
- Middle: Open, enable to external logic input
- Lower Side: Low (GND)

Test Procedure for DC Motor Control:

1. **Initial Condition Setting:** Set the toggle switches “Open or Low”
2. **Motor Connection:** Connect the Motor(s) between OUT1 and OUT2.
3. **Power Supply:** Supply DC voltage to VCC, VM.
4. **Charge-pump check:** EN1 or EN2 set “H”. Check VG pin voltage. $V_G = V_M + V_{CC}$
5. **Motor Operation:** Set EN1-2, IN1- IN4 terminals according to the purpose (See LV8402GP datasheet).

Truth Table

EXTR A	EN1 (EN2)	IN1 (IN3)	IN2 (IN4)	OUT1 (OUT3)	OUT2 (OUT4)	Charge pump	Mode
H	H	H	H	Z	Z	ON	Stand-by
		H	L	L	H		Reverse
		L	H	H	L		Forward
		L	L	L	L		Brake
L	L	-	-	L	L	OFF	Stand-by
		H	-	L	H		Reverse
		L	-	H	L		Forward
		-	-	L	L		Brake

“-“ : Denotes a don't care value. Z: High-Impedance

DC Motor Load VCC = 3V, VM = 6V EN1 = “H”, IN2 = “L”

(Current waveform example “brake current”)

