

## Test Procedure for the NCV7544VTFS5C466GEV Evaluation Board

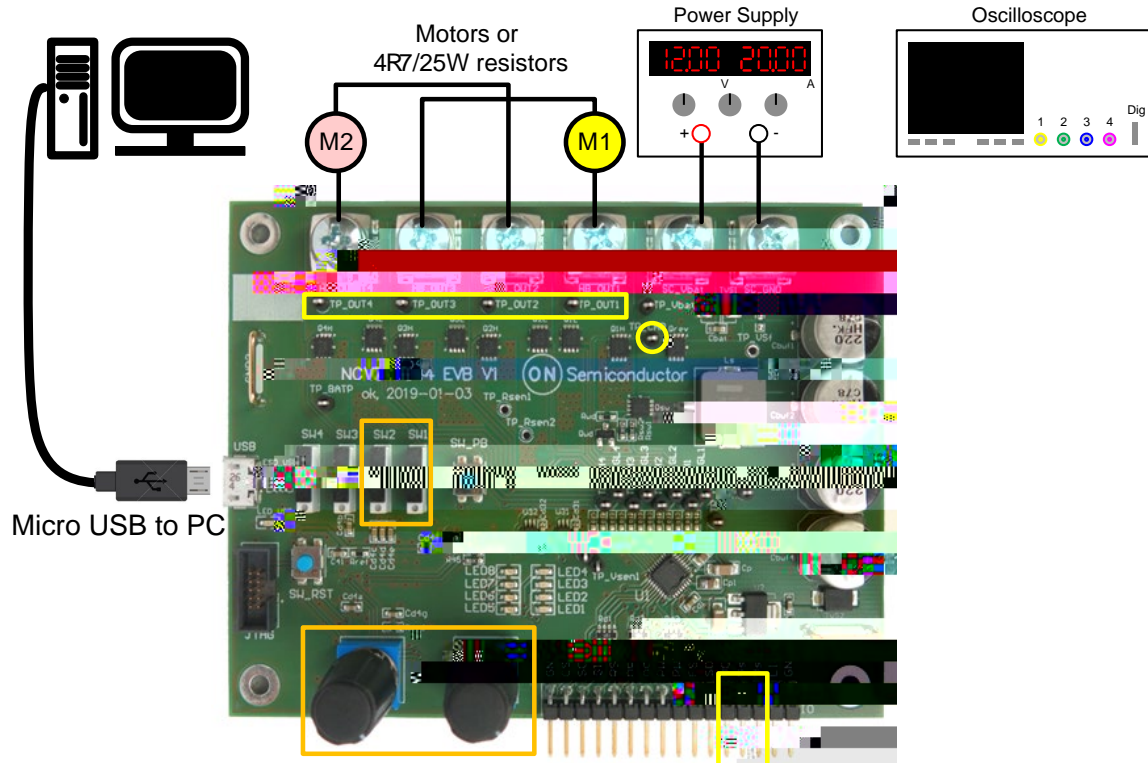


Figure1: Test Setup Configuration

### Required Equipment

- Oscilloscope
- Bench Power Supply, current capability min. 10 A, Ampermeter
- Voltmeter (alternatively free oscilloscope channel)
- Two loads (12V motors or power resistors 4R7/25W)
- PC Software for NCV7544 EVB Control
- Micro USB Cable
- NCV7544 Evaluation Board





Table 3: Desired Results

LED1 on
$V(\text{HB\_OUT1}) = \text{OUTx LS} / \text{OUTx HS(PWM per Pot1)}$
$V(\text{HB\_OUT2}) = \text{OUTx LS} / \text{OUTx HS(PWM per Pot2)}$
$V(\text{HB\_OUT3}) = \text{OUTx LS}$
$V(\text{HB\_OUT4}) = \text{OUTx LS}$
$V(\text{Vser1}) = \text{Vsen\_on (when duty-cycle 100\%)}$
$V(\text{Vser2}) = \text{Vsen\_on (when duty-cycle 100\%)}$

Test procedure Step 5 (Standalone mode, outputs on)

1. Set SW1/2 down
2. Turn Pot1 and Pot2 right
3. Check OUT14 voltage on TP\_OUT14
4. Check Vsen voltage on IO

Table 4: Desired Results

$V(\text{HB\_OUT1}) = \text{OUTx LS}$
$V(\text{HB\_OUT2}) = \text{OUTx LS}$
$V(\text{HB\_OUT3}) = \text{OUTx LS} / \text{OUTx HS(PWM per Pot1)}$
$V(\text{HB\_OUT4}) = \text{OUTx LS} / \text{OUTx HS(PWM per Pot2)}$
$V(\text{Vser1}) = \text{Vsen\_on (when duty-cycle 100\%)}$
$V(\text{Vser2})$



DC Characteristics

	MIN	TYP	MAX
VCC	4.9 V	5.0V	5.1 V