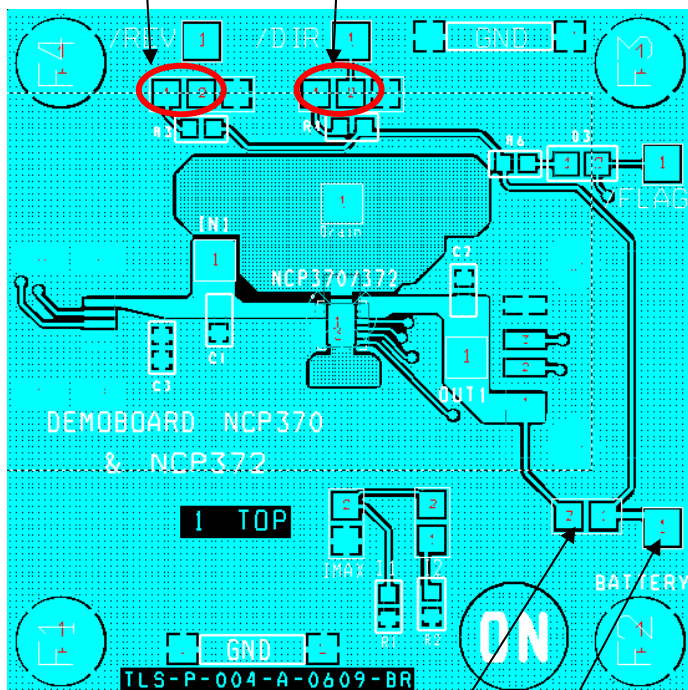




Test Procedure for the NCP370GEVB Evaluation Board

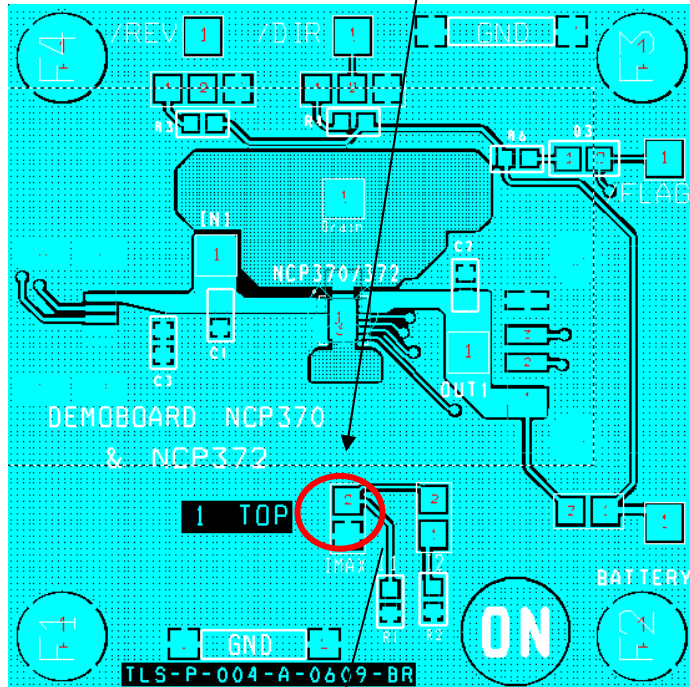
Test Procedure:

1. Place /REV strap and /DIR strap on left side ("1" logic) (connected to Vbat, through pull up resistor)

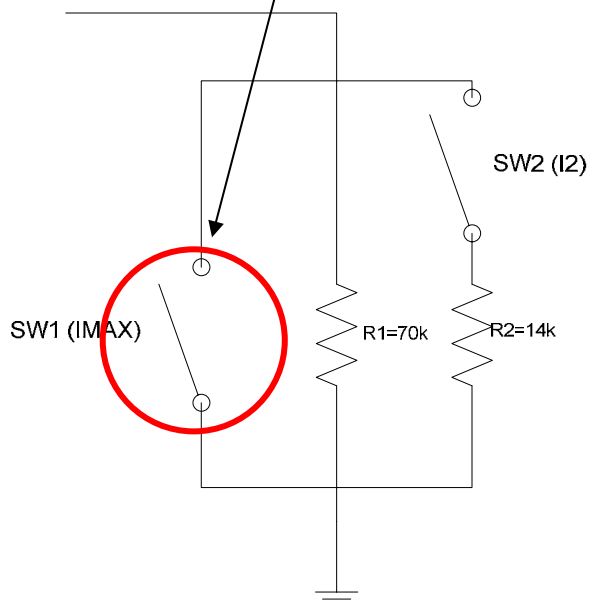


2. Let Battery strap opened.
3. Connect a Battery or power supply (4.2V) on Battery test point. (min 2A capability)

4. Connect strap on Ilim.



ILIM PIN (7)





5. Select I limit threshold with pull down resistors connected on pin 7:

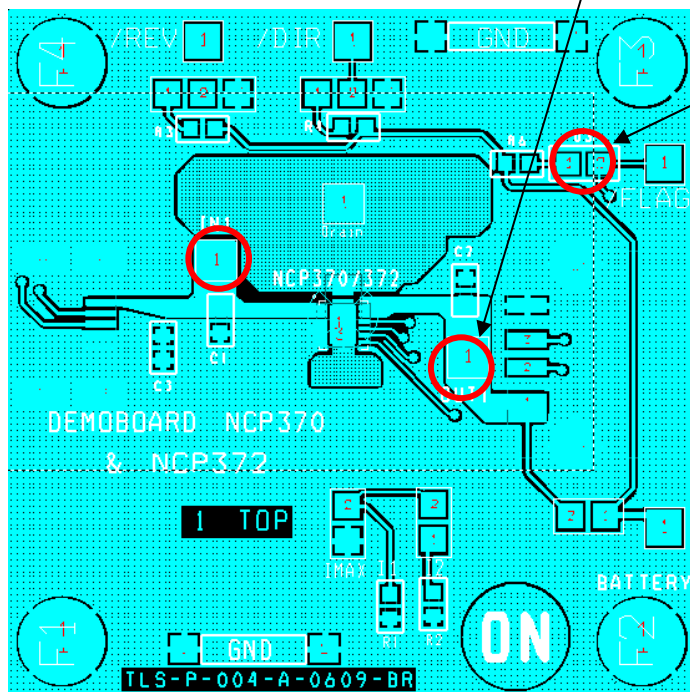
SW1	SW2	I OCP
0	0	500mA
0	1	1A
1	0	1.5A
1	1	1.5A

R1= 70K

R2= 14K

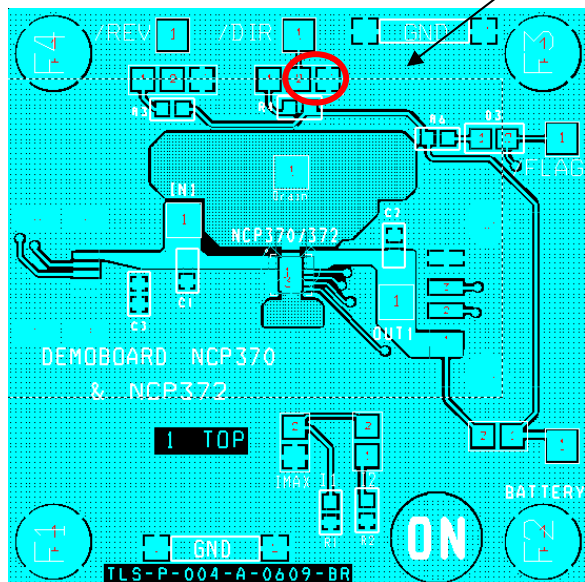
Disable Mode:

6. Connect 10 V capability Vin Supply on IN1 test point.
 a. Set power supply to 5V ⇒ Check Vout = 0V and LED = off

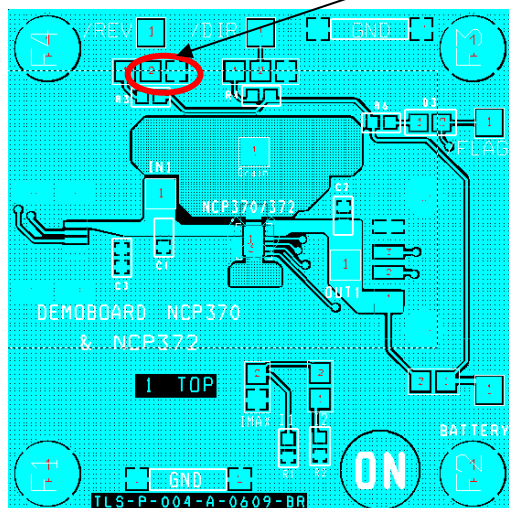


Direct Mode:

7. Switch /DIR from left to right, 1 logic level to 0 logic level



8. Check Vout=5V and Flag LED is still off
9. Set Vin=7V
10. Check Flag LED = on, and Vout is 0V.
11. Switch /REV from left to right, 1 logic level to 0 logic level





12. Check Flag LED = off, and $V_{out} = V_{in} = 7V$.

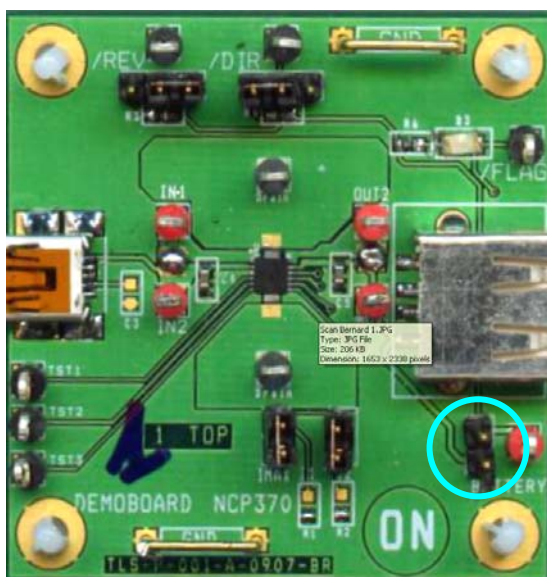
Disconnect V_{in} supply

Reverse Mode:

13. Connect Set $/DIR=1$, $/REV=1$

Disconnect V_{in} Power Supply from IN test points.

Connect accessory on IN1 or IN2 test points.



← Put strap to connect Battery to V_{out}

14. Set $/DIR=1$, $/REV=0$: $V_{out} = V_{in}$

If $I_{accessory} < I_{limit}$ then $V_{in} = V_{out} - R_{dson} \times I$

If $I_{accessory} > I_{limit}$ then $V_{in} = 0$ (Current regulation)

Power off.

15. Set $/DIR=1$, $/REV=1$

16. Disconnect accessory

17. Disconnect Battery