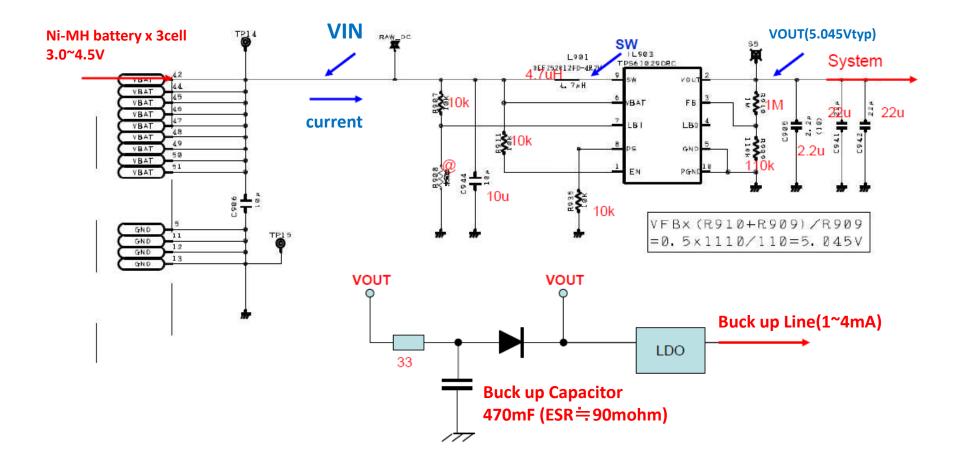
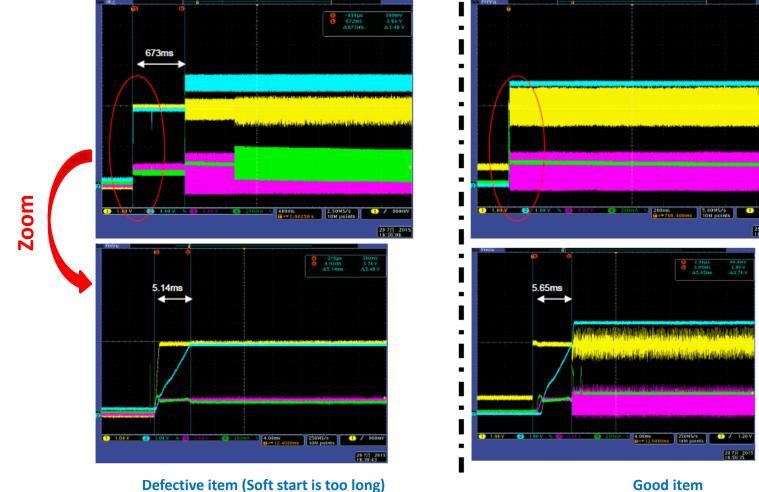
## **Our boost circuit of TPS61029**



## **Indications (transient behavior shortly after inserting battery)**





**Good item** 

Some item have too long soft start and don't transit to PWM for long time(637ms).

## Unmount the buck up capacitor from board

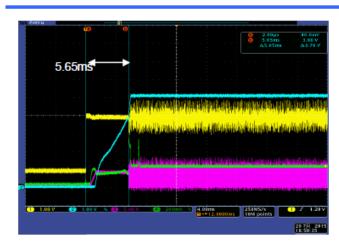




mount 470mF

unmount 470mF

**Defective item (Soft start is too long)** 



mount 470mF

Yellow	VBAT
Aqua	VOUT
Pink	SW
Green	VBAT current

**Good item** 

## At sample having long soft start, we checked following. (VIN = 4.0V)



Yellow	VOUT
Aqua	Voltage of buck up capacitor
Green	VIN current

CHECK 1: The voltage of buck up capacitor (470mF) when PWM started

→ PWM started near 0.6V (of 470mF) every time.



Yellow	VOUT
Aqua	Voltage of buck up capacitor
Green	VIN current

CHECK 2: The behavior under being charged 0.6V (470mF)

→ PWM started shortly after power on.(4.8ms)