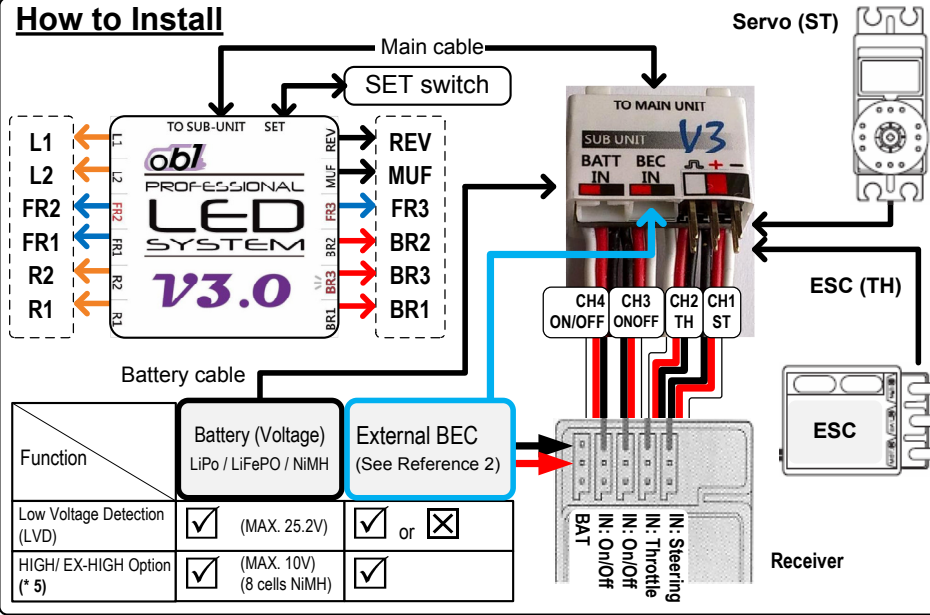




How to Install



Function	Battery (Voltage) LiPo / LiFePO / NiMH	External BEC (See Reference 2)
Low Voltage Detection (LVD)	<input checked="" type="checkbox"/> (MAX. 25.2V)	<input checked="" type="checkbox"/> or <input type="checkbox"/>
HIGH/ EX-HIGH Option (* 5)	<input checked="" type="checkbox"/> (MAX. 10V) (8 cells NiMH)	<input checked="" type="checkbox"/>

The kit includes

	QTY
1) Main unit	1
2) Sub unit	1
3) Main cable	1
4) SET/PAIR Switch cable	1
5) Battery cable	1
6) User manual (English)	1
<u>5mm LED cable (2X)</u>	
7) Front - White	1
8) Rear - Red	1
<u>3mm LED cable (2X)</u>	
9) Left & Right - Yellow	2

LED Connector VS Function:

Connector	Function	No. of LED Driving (20mA/pcs)	Power Option (*1)	Sound function (*1)
1-2)	L1, L2	Left winker 1, 2	1-2	
3-4)	R1, R2	Right winker 1, 2	1-2	
5)	FR1	Head lamp 1	2	
6)	FR2	Head lamp 2	2 - 16	Option 1-4
7)	FR3	Head lamp 3	2 - 16	Option 1-4
8)	BR1	Brake lamp 1	2	
9)	BR2	Brake lamp 2	2	
10)	BR3	Brake lamp 3	2 - 16	Option 1-4
11)	MUF	Muffler lamp	2	Option 3 LVD Alarm
12)	REV	Reverse lamp	2	

Channel / Input VS Functions:

Channel / Input (* 2)	Function	LED Output	Detail Functions	Remote's Operation	
				LHS / RHS	Active Range
CH1	ST (Steering)	L1, L2, R1, R2	- Turn signals		~25 - 100%
CH2	TH (Throttle)	MUF, REV, BR1, BR2, BR3	- Brake: LED 100% ON when braking, otherwise = Idle stage - Muffler - Reverse signal: ON when 2nd time brake		~25 - 100% 2nd time brake
		L1, L2, R1, R2	- Auto Hazard Enable when TH idle over 6 secs		Idle (>6 sec)
	TOGGLE (* 1)	FR1, 2, 3 L1, L2, R1, R2 BR1, BR2, BR3	- Toggle: Full brake and HOLD for 3 secs to start Toggle function		100% (>3 sec)
CH3	ON / OFF Switch	FR1, FR2, FR3	- ON/OFF Switch: FR1, FR2, FR3		~25 - 100%
		All	- Flash Mode Toggle, total 7 flash styles		
CH4	ON / OFF Switch	L1, L2, R1, R2	- Manual Hazard L1, L2, R1, R2		~25 - 100%
		FR1, FR2, FR3 MUF, REV	- ON/OFF Switch: FR1, FR2, FR3, MUF, REV		
CH1 - 4 Don't care	Flash Mode	All	- Flash Mode: Press SET switch anytime after Power ON to change total 7 flashing styles		Press SET Switch
BATT Connector	Low Voltage Detection Power supply for BEC	All	- When Low Voltage Detected: All LEDs blink		X
BUZZER	LVD Alarm	X	- Buzzer (BR3) On when Low Voltage Detect active		X

Caution: This LED system will increase the load of BEC!
Some radio control systems or ESCs MAY cause this LED system does not work normally!

Specification:

- Input Voltage: 5-6V (Powered by ESC's BEC)
- Battery type for LVD: LiPo / LiFePo / NiMH (MAX 25.2V)
- Support RC System: All High Response 2.4G Systems / PCM / PPM (FM) / AM
- Dimension: Main Unit: 44mm (L), 38mm (W), 10mm (H)
Sub Unit: 22mm (L), 22mm (W), 10mm (H) (Excludes cables)
- Weight: Main Unit: 12g
Sub Unit: 10g

Reference 1:

External BEC (Sell separately)	Part Number
5V, 3A type	BL-BEC5V3A
5V, 5A type	BL-BEC5V5A

Notes: (* 1): Please refers to Table 3 for details.
(* 2): Function(s) is/are enabled ONLY when the Channel(s) is/are connected BEFORE POWER ON.

Setup Mode

Default Setting

🔴 Brake (BR1) LED flashes (ON time)

Table 1: Input (Channels) vs OUTPUT (LED Functions)

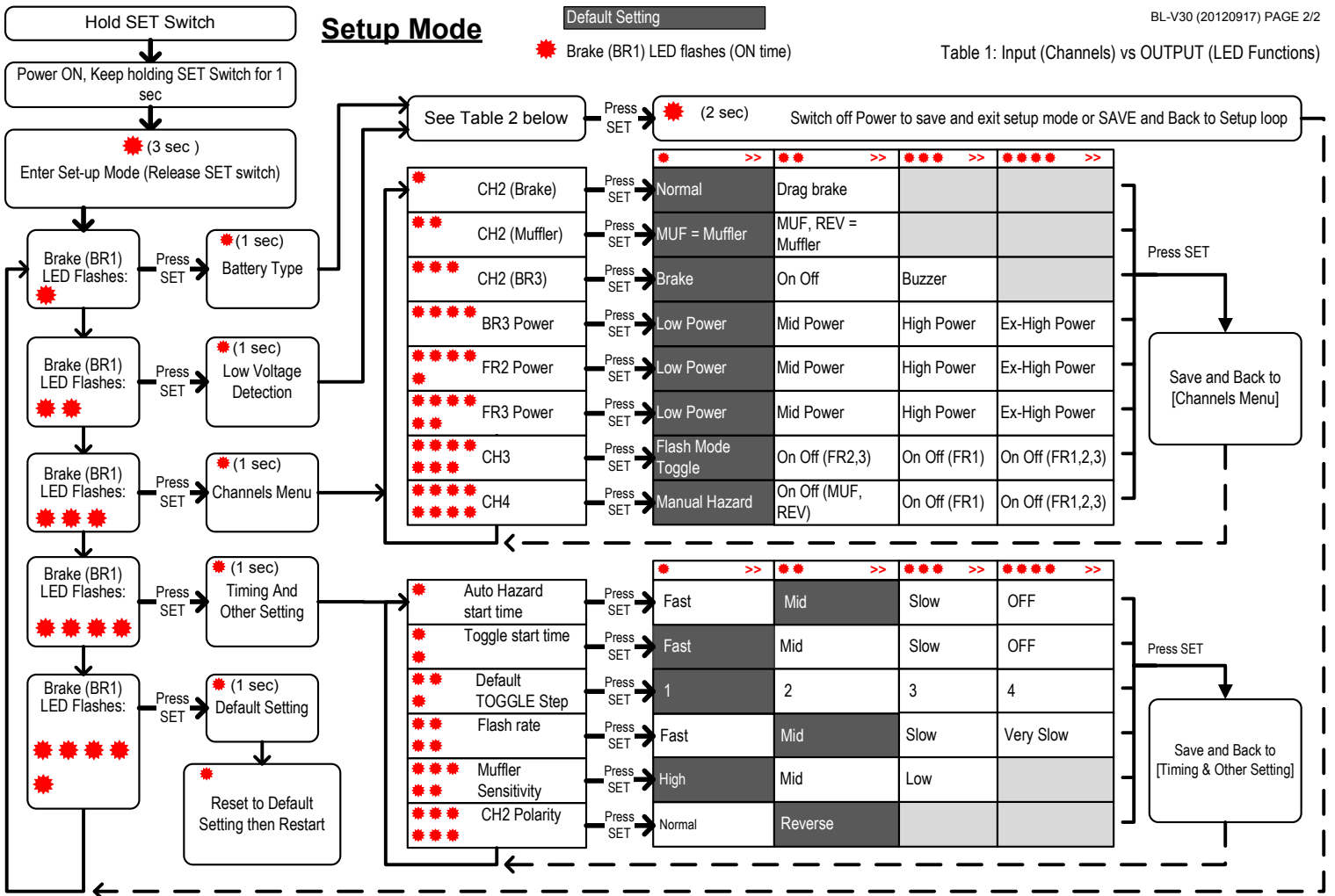


Table 3: Setup Mode

Set up Mode	Default Setting			
	🔴	🔴🔴	🔴🔴🔴	🔴🔴🔴🔴
🔴 Battery Type	LiPo 2S	LiPo 3S	LiFePo 2S	LiFePo 3S
🔴🔴 Low Voltage Detection	Low	Middle	High	User define
Channels Menu				
🔴 CH2 (Brake)	Normal	Drag Brake	-	-
🔴🔴 CH2 (Muffler)	MUF = Muffler	MUF & REV = Muffler	-	-
🔴🔴🔴 CH2 (BR3)	Brake	OnOff	Buzzer (* 4)	-
🔴🔴🔴🔴 BR3 Power (* 5)	Low Power	Mid Power	High Power	Extra High Power
🔴🔴🔴🔴 FR2 Power (* 5)	Low Power	Mid Power	High Power	Extra High Power
🔴🔴🔴🔴 FR3 Power (* 5)	Low Power	Mid Power	High Power	Extra High Power
🔴🔴🔴 CH3	Flash Mode Toggle	OnOff (FR2, 3)	OnOff (FR1 Only)	OnOff (FR1, 2, 3)
🔴🔴🔴 CH4	Manual Hazard	OnOff (MUF, REV)	OnOff (FR1 Only)	OnOff (FR1, 2, 3)
Timing & Other Setting				
🔴 Auto Hazard start time	Fast	Middle	Slow	OFF
🔴🔴 Toggle start time	Fast	Middle	Slow	OFF
🔴🔴🔴 Default TOGGLE step	STEP 1 >> LR= Normal OFF BR= Idle 15% FR= ON	2 >> Normal ON Idle 15% OFF	3 >> Normal ON Idle 15% ON	4 >> Normal OFF Idle 0% OFF
🔴🔴🔴 Flash rate	Fast	Middle	Slow	Very Slow
🔴🔴🔴 Muffler Sensitivity	High	Middle	Low	-
🔴🔴🔴 CH2 Polarity	Normal	Reverse	-	-
Default Setting				
🔴 Default Setting	Reset to Default Setting then Restart			

Table 2: Battery Type vs Low Voltage Detection (LVD)

Battery Type	🔴	🔴🔴	🔴🔴🔴	🔴🔴🔴🔴
Low Voltage Detect	LiPo 2S	LiPo 3S	LiFePo 2S	LiFePo 3S
🔴 Low	6.2V	9.3V	4.2V	6.3V
🔴🔴 Middle	6.8V	10.2V	5.0V	7.5V
🔴🔴🔴 High	7.6V	11.4V	5.4V	8.1V
🔴🔴🔴🔴 User define	MAX 25.2V (*3)			

Notes:

(* 3): A DISCHARGED battery can be connected. The battery voltage Level will be stored as LoV Voltage Detection (LVD) Level, Battery Type will be ignored

(* 4): OPTION for LVD / REV Beep (Sell separately)

(* 5): Power option

Power	LOW	MID	HIGH	EX-HIGH
Output current	40mA	100mA	150mA	250mA
Drive LEDs (20mA type)	2 pcs	4-6 pcs	8-10 pcs	12-16 pcs
* Optional BEC	Not Must		3 / 5A	5A

* If using HIGH/ EX-HIGH power option, or ESC's BEC output is lower than 3A it's required to add a 3/5A BEC (See Reference 1)



Caution:

Using OVER current to drive LED will burn or shorten the life of LED !

