

KUDU™ LED Light Module System for BRX01 Toyota LC70

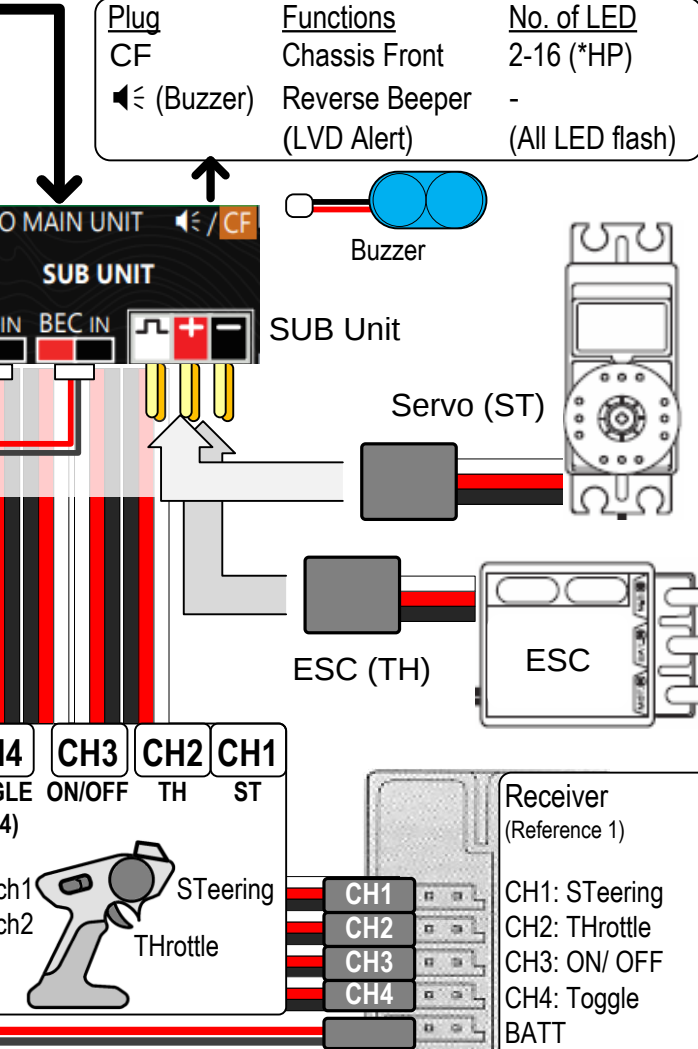
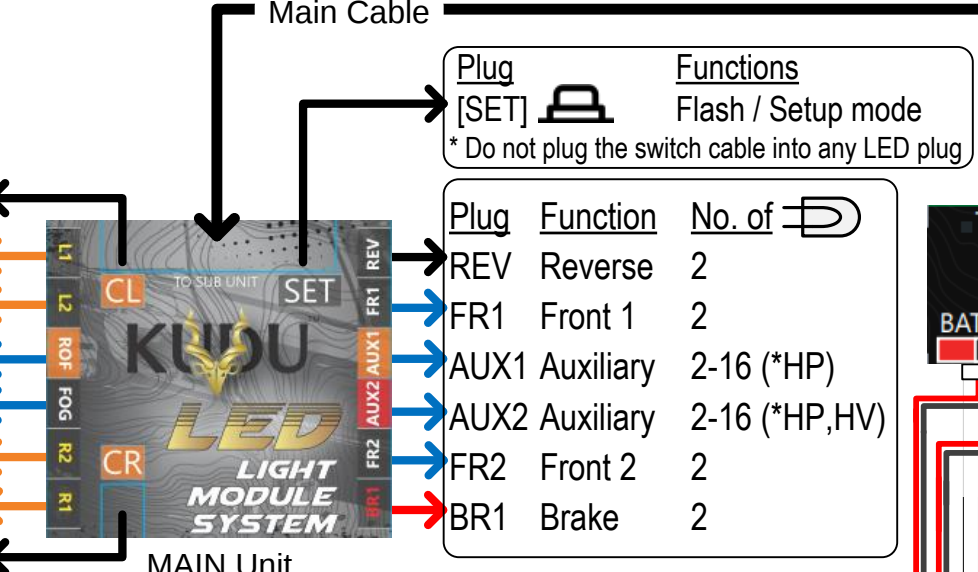


How to Install :

Plug	Function	No. of
CL	Chassis Left	2-16 (*HP)
L1	Blinker Left	1
L2	Blinker Left	2
ROF	Roof	2-16 (*HP)
FOG	Fog	2
R2	Blinker Right	2
R1	Blinker Right	1
CR	Chassis Right	2-16 (*HP)

(*4) HP (Orange): High Power plug
HV (Red): High Voltage plug

Optional functions	
Low Voltage Detection (LVD Alert) HV : High Voltage Plug	Battery Required (Buzzer)
Additional Power Supply	Battery and External BEC Required (Reference 2)



Start to use :

- Connect all desired Channels (CH1 - 4), then ESC, Servo before Power ON ESC
 - Power ON Transmitter first (Power OFF the last !)
 - Power ON ESC, the LED System (BR1) will flash for around 5 seconds (Channel 2 (TH) AUTO-CALIBRATE)
- PLEASE KEEP Channel 2 in NEUTRAL POSITION during this Period UNTIL BR1 STOPS FLASHING
- See below table for all operations :

The kit includes :

	QTY :
1) MAIN unit	1
2) SUB unit	1
3) Main cable	1
4) SET Switch cable	1
5) Battery cable (LiPo 2S)	1
6) Buzzer	1
7) User manual (EN)	1
8) Spare wire for CL, CR, CF plugs	2
LED cables (P : Parallel):	
9) Left & Right - 3 + 5mm Yellow (2P)	2
10) Left & Right - 3mm Yellow (1P)	2
11) Front - 5mm Cool White (2P)	1
12) Fog - 3mm Cool White (2P)	1
13) Reverse - 3mm Cool White (2P)	1
14) Brake - 3mm Red (2P)	1

Specification :

- Input Voltage : 5 - 7.4V (Powered by ESC's BEC)
- Battery type for LVD : LiPo 2S (User define: MAX 12.6V)
- Support RC System : All Normal Response RC Systems: PCM/ PPM (FM)/ AM Some High Response RC Systems, for example : Futaba : FASST-C1, C2 / S-FHSS / T-FHSS (SR) Sanwa : NOR / SHR Mode
- Dimension (Excludes cables) : Main Unit : 45mm (L), 41.3mm (W), 11.7mm (H) Sub Unit : 24.5mm (L), 18.5mm (W), 12mm (H)
- Weight : MAIN/ SUB Unit : 14g / 10g

Input Channel VS FUNCTIONS :				Remote's Operation						
Input Channel (* 1)	Function	LED Output	Detail Functions	(Reference 1)	Active range					
CH1 T (Steering)	Left / Right Blinkers	L1, L2, R1, R2	Left / Right turns signal		>25%					
CH2 H (Throttle)	Brake	BR1	LED 100% ON when braking, otherwise = Idle stage		>25%					
	Reverse	REV	ON when 2nd time brake		2nd time Brake					
	Auto Hazard	L1, L2, R1, R2	Enable when TH idle over 6 secs (Manual hazard NOT selected)		Idle (>6 sec)					
CH3 ON / OFF Switch	Manual Hazard	L1, L2, R1, R2	L1, L2, R1, R2 Flashing		From MIN, MAX or Neutral position :					
CH4 TOGGLE Switch	Smart Toggle Switch LED ON/ OFF	BR1 AUX1, FR1, AUX2, FR2, ROF, FOG, CF, CL, CR	Toggle 0: BR1 AUX1, FR1 AUX2, FR2 ROF, FOG CF, CL, CR Toggle 1: BR1 AUX1, FR1 AUX2, FR2 ROF, FOG CF, CL, CR Toggle 2: BR1 AUX1, FR1 AUX2, FR2 ROF, FOG CF, CL, CR Toggle 3: BR1 AUX1, FR1 AUX2, FR2 ROF, FOG CF, CL, CR Toggle 4: BR1 AUX1, FR1 AUX2, FR2 ROF, FOG CF, CL, CR	 Switch or Lever, Dial	↔ 30% or ↑↓ 30%					
[SET]	Flash Mode	All LED	Press SET anytime after Power ON, total 10 flashing styles	Press SET Switch						
	Flash mode 1	Flash mode 2	Flash mode 3	Flash mode 4	Flash mode 5	Flash mode 6	Flash mode 7	Flash mode 8	Flash mode 9	Flash mode 10

Notes (*1): Function(s) is/ are enabled ONLY when the Channel(s) is/are connected BEFORE POWER ON.

Reference 1 :

Connection example for: Futaba T6EX (Stick Mode 2)

T6EX	KUDU	Function
CH1 Aileron	CH1	Left, Right
CH2 Elevator	CH4	Toggle
CH3 Throttle	CH2	Throttle
*CH4 Rudder	CH3	ON/ OFF
CH5 / 6	CH3/ CH4	ON/ OFF, Toggle

Futaba 4YWD

CH1	CH1	Left, Right
CH2	CH2	Throttle
CH3	CH3	Toggle
*CH4	CH4	ON/ OFF

*CH4 may be used for Gear box Servo

Reference 2 :

External BEC (Sell separately)	Part Number
5 - 6V, 3A type	UBEC-3A
5 - 6V, 5A type	UBEC-5A

Caution:
This LED system will increase the load of BEC. Some radio control system(s) or ESC(s) MAY NOT works with this LED system normally !!

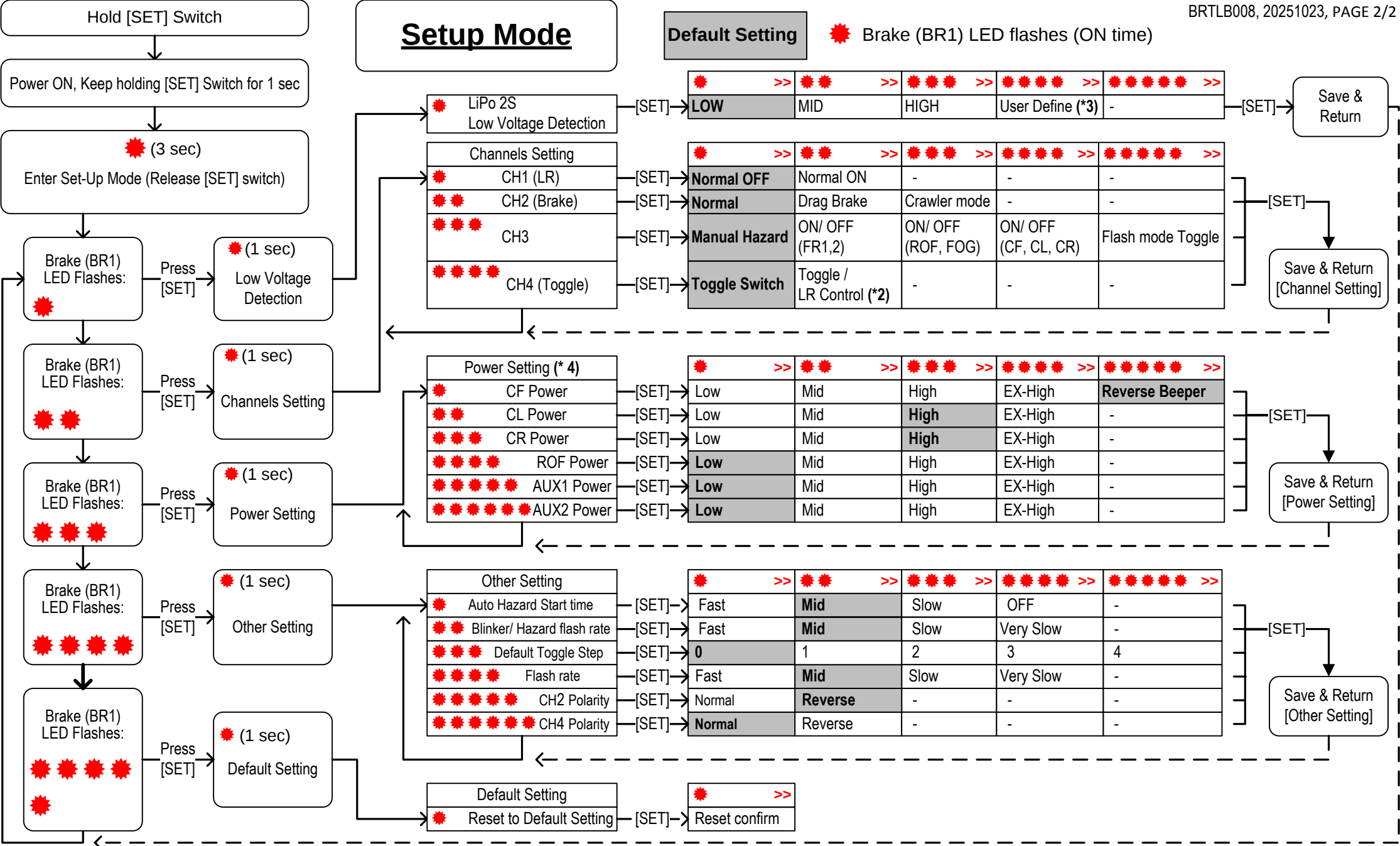
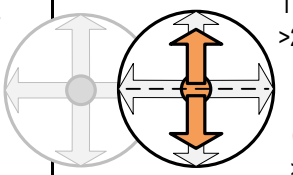


Table 1: Setup Mode

Table 1: Setup Mode		Default Setting		🔴 Brake (BR1) LED flashes time		
Set up Mode		🔴	🔴🔴	🔴🔴🔴	🔴🔴🔴🔴	🔴🔴🔴🔴🔴
🔴	LiPo 2S Low Voltage Detection	Low 6.2V	Middle 6.8V	High 7.6V	User define MAX 12.6V (* 3)	-
🔴🔴🔴 Channels Setting						
🔴	CH1 (LR)	Normal OFF	Normal ON	-	-	-
🔴🔴	CH2 (Brake)	Normal	Drag Brake	Crawler mode	-	-
🔴🔴🔴	CH3	Manual Hazard	OnOff (FR1, 2)	OnOff (ROF, FOG)	OnOff (CF, CL, CR)	Flash Mode TOGGLE
🔴🔴🔴🔴	CH4 (Toggle)	Toggle	Toggle / LR Control (* 2)			
🔴🔴🔴🔴 Power Setting (* 4)						
🔴	CF Chassis Front	Low Power	Mid Power	High Power	Extra High Power	Buzzer (REV Beeper)
🔴🔴	CL Chassis Left	Low Power	Mid Power	High Power	Extra High Power	-
🔴🔴🔴	CR Chassis Right	Low Power	Mid Power	High Power	Extra High Power	-
🔴🔴🔴🔴	ROF	Low Power	Mid Power	High Power	Extra High Power	-
🔴🔴🔴🔴🔴	AUX1	Low Power	Mid Power	High Power	Extra High Power	-
🔴🔴🔴🔴🔴🔴	AUX2	Low Power	Mid Power	High Power	Extra High Power	-
🔴🔴🔴🔴🔴 Other Setting						
🔴	Auto Hazard start time	Fast	Middle	Slow	Auto Hazard OFF	-
🔴🔴	Turns / Hazard flash rate	Fast	Middle	Slow	Very Slow	-
🔴🔴🔴 Default TOGGLE step	STEP	0 >>	1 >>	2 >>	3 >>	4 >>
	AUX1	OFF	ON	ON	ON	ON
	FR1		OFF			
	AUX2					
	FR2					
	ROF					
	FOG					
	CF		OFF			
CL,CR						
BR1	Idle 0%	Idle 15%	Idle 15%	Idle 15%	Idle 15%	
🔴🔴🔴🔴	Flash rate	Fast	Middle	Slow	Very Slow	-
🔴🔴🔴🔴🔴	CH2 Polarity	Normal	Reverse	-	-	-
🔴🔴🔴🔴🔴🔴	CH4 Polarity	Normal	Reverse	-	-	-
🔴🔴🔴🔴🔴 Default Setting						
🔴	Default Setting	Reset to Default Setting then Restart				
						

Notes (* 2):

TOGGLE / LR Control (**/ ***/ **)	Remote's Operation	
Function		
TOGGLE Switch / LR Control	 Toggle start >25% (>1 sec) LR Control: 0-25% : OFF >25% : ON	

Notes:

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

(* 4): Power Setting

HV: High voltage Plug : 7.4 - 12.6V
HP: High Power Plug :

Power	LOW	MID	HIGH	EX-HIGH
Output current	40mA	100mA	150mA	250mA
Drive LED 20mA each	2 pcs	4-6 pcs	8-10 pcs	12-16 pcs
* External 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 External BEC (Reference 2)

**Caution:**

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