



After initial setting is performed

Press and hold the POWER button for 2 to 3 seconds while the power is off

LED (green + orange) blinks for 3 seconds, LED (green) flashes

Initial setting of radio throttle position

In Normal State Press the POWER button

LED (green + red) blinks for 3 times, LED (green + orange) flashes 4 times

Standby state (runnable)

ESC mode (blue LED) (blinking: boost and turbo invalid)
Program card mode (Red LED) (blinking: boost, turbo invalid)

Press and hold the set button for more than 4 seconds to change mode

Storage Location Selection

User program ① (Green LED)
Every time the set button is pressed once, the storage location is switched to ① or ②.

User program ② (orange LED)

It automatically shifts to selection of save destination.

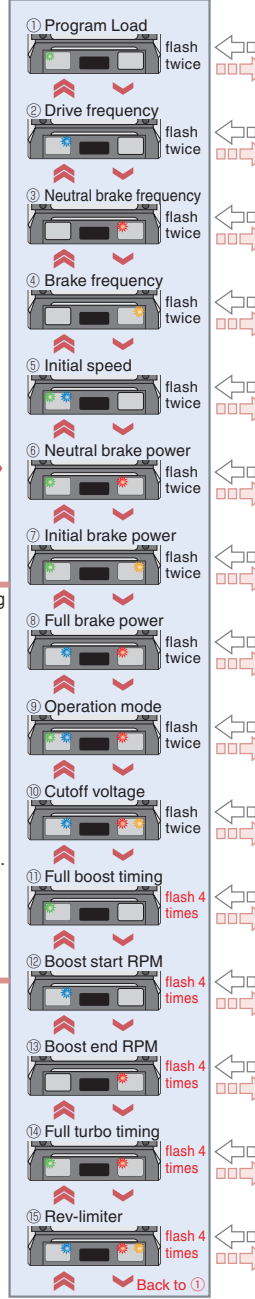
Program saving (All LED blinks)

When Saving

(Note) Since the changed value is reset when the power is turned off, be sure to save the setting value at the end of your programming.

※ If you select "Boost / Turbo Invalid" in "Program Load", the functions below full boost advance can not be used and will be skipped. In this case, the timing angle is fixed at 0°.

Select mode (cannot run)



Setting mode (cannot run)

Setting Item	Option 1	Option 2	Option 3	Option 4
Functional overview	Drift Off-Road 2WD User Program 1	Non Boost Off-Road 4WD User Program 2	Touring	
Drive frequency (kHz)	4kHz	8kHz	16kHz	24kHz
Neutral brake frequency (kHz)	2kHz	4kHz	8kHz	16kHz
Brake frequency (kHz)	2kHz	4kHz	8kHz	16kHz
Initial speed (%)	0%	8%	14%	
Neutral brake power (%)	0%, 12%	4%, 14%	8%, 16%	10%, 32%
Initial brake power (%)	6%	12%	16%	26%
Full brake power (%)	70%	80%	90%	100%
Operation mode	(Fwd Rotation)Fwd/Brk (Fwd Rotation)Fwd/Rev (Rev Rotation)Fwd/Brk/Rev	(Fwd Rotation)Fwd/Brk/Rev (Rev Rotation)Fwd/Brk (Rev Rotation)Fwd/Rev		
Cutoff voltage (V / Cell)	NONE 3.1V/Cell	2.8V/Cell 3.2V/Cell	3.0V/Cell 3.4V/Cell	
Full boost timing (deg)	0deg	15deg	25deg	45deg
Boost start RPM	5,000rpm 20,000rpm	10,000rpm	15,000rpm	
Boost end RPM	15,000rpm 40,000rpm	20,000rpm 50,000rpm	30,000rpm	
Full turbo timing (deg)	0deg	12deg	20deg	30deg
Rev-limiter	OFF 50,000rpm	15,000rpm	30,000rpm	

RAD Preset setting value / settable range comparison table

Setting items	Preset initial value				Settable range		Functional overview
	Drift	Boost/Turbo Invalid	Touring	Off-road 2WD	Off-road 4WD	RAD Unit	
Drive frequency (kHz)	16	16	4	4	16	TAOIII (Ver.1.26~)	Determine the throttle feeling (quick or mild)
Neutral brake frequency (kHz)	16	16	8	2	8	1~32 (24 Kinds)	Determine the brake feeling (quick or mild) that will be applied when the throttle returns to the neutral position while driving.
Brake frequency (kHz)	8	2	2	2	8	0.5~32 (24 Kinds)	Determine the brake feeling (quick or mild) that will be applied when the throttle is on the brake side during turning.
Initial speed (%)	8	0	8	14	8	0~50 (26 Kinds)	Determines the initial speed when starting acceleration from a stopped state. The bigger the number, the sharper the start.
Neutral brake power (%)	16	4	16	16	24	0~100 (51 Kinds)	Determines the brake power applied when returning the throttle to the neutral position while driving.
Initial brake power (%)	26	6	26	26	12	0~100 (51 Kinds)	Determines the brake power to be applied at the moment when the throttle is put on the brake side while driving.
Full brake power (%)			100			0~100 (51 Kinds)	Determines the brake power applied when the throttle is put in full brake while driving.
Max forward speed (%)			100			50~100 (26 Kinds)	It is a function to limit the maximum speed on the forward side of the throttle.
Max reverse speed (%)			25			25~100 (4 Kinds)	It is a function to limit the maximum speed on the reverse side of the throttle.
Operation mode						6 Kinds	Determine the direction of motor rotation, presence of brake, and presence of reverse function.
Cutoff voltage (V / Cell)			3.2			OFF & 2.8~3.4	When the battery voltage drops to the set value, the ESC will inform the driver that the battery voltage is decreasing by running at ultra low speed.
Full boost timing (deg.)	0	-	25	0	0	0~45 (61 Kinds)	It is the maximum timing angle value achieved by the boost function.
Boost start rotation speed (rpm)	5000	-	10000	5000	5000	1000~20000(4 Kinds)	This is the motor speed at which boost starts.
Boost end rotation speed (rpm)	20000	-	30000	20000	20000	15000~50000(5 Kinds)	This is the motor speed at which boost ends.
Throttle Boost Control			OFF			ON / OFF	It is a safety feature that automatically regulate the rotation speed to prevent sudden change in motor rotation speed under sudden throttle action.
Turbo activation						3 Types	Determines the factor that trigger the turbo activation. (When full throttle or when set rpm value is reached or both)
Full turbo timing (deg.)	12	-	20	12	0	0~30 (31 Kinds)	It is the maximum timing angle value achieved by the turbo function.
Turbo start rotation speed (rpm)	20000	-		20000		10000~50000(81 Kinds)	This is the motor speed at which the turbo starts operating.
Turbo on slope (deg./0.1 sec.)	3	-	9	3	3	1~25	It is the ramping speed at which turbo reaches full timing from the moment it activates. Larger value equal to a faster timing increase.
Turbo off slope (deg./0.1 sec.)	6	-		6		1~25	It is the ramping speed at which the turbo decrease from full timing to inactive. Larger value equal to faster timing decrease.
Turbo start delay time (sec.)	0.15	-		0.15		0~1.00 (21 Kinds)	It is the time it takes for the turbo to turn ON once full throttle is reached.
Turbo off delay time (sec.)	0	-		0		0~1.00 (21 Kinds)	It is the time it takes for the turbo to turn OFF once full throttle is released.
Rev-limiter (rpm)			OFF			OFF & 15000~30000 . 50000 (10000(32 Kinds)	The output to the motor is capped at an arbitrary rpm value. Unexpected speed increase can be prevented, such as when using a high-speed motor.
Free zone adjustment (%)			6			1~10 (10 Kinds)	Adjust the output characteristics at the moment the throttle shifts from neutral to drive. Lower value create a quicker output, higher value create a mild/smooth output.
Torque Level**			0			-5~+5 (11 Kinds)	Setting value 0 is liner condition. Increasing the value results in acceleration with torque and slow deceleration. Also, decreasing the value results in slow acceleration and rapid deceleration.
Torque end point(%)**			100			20~100 (17 Kinds)	Set the throttle range where the torque level function operates. (Operates from 0% to the set value) Outside the "torque end point" range outputs normal characteristics.

※※※ [Important] "Torque level" and "Torque end point" function can operate only when using our brushless motor "LUXON AGILE" and "FLEDGE".

When using a motor of our company "LUXON BS" and "LUXON", or a motor of other manufacturers, setting isn't possible or it doesn't operate properly.