



**LED Card Item Descriptions:**

<b>Item No:</b>	<b>Value:</b>	<b>Description:</b>
1	1~3	1- Forward/Brake, 2- Forward/Brake/Reverse, 3- Forward/Reverse
2	0~83	0- Disable, 1- Auto, 2- 3.0V, 3- 3.1V, 4- 3.2V, ..., 83 - 11.1V
3	0~3	0- 95 degree, 1- 105 degree, 2- 125 degree, 3- Disable
4	1~2	1- Normal, 2- Reverse
5	1~2	1- Modify, 2- Stock
6	1~12	1 - 4%, 2- 5%, 3- 6%, ..., 12- 15%
7	1~30	1~30 = punch 1~30
8	1~30	1~30 = punch 1~30
9	1~4	1- 25%, 2-50%, 3- 75%, 4-100%
10	0~99	0~99= 0~99%
11	1~9	1- 0%, 2-12.5%, 3- 25%, 4-37.5%, 5- 50%, 6-62.5%, 7-75%, 8- 87.5%, 9- 100%
12	1~20	1~20 = brake 1~20
13	1~20	1~20 = brake 1~20
14	0~64	0~64= boost timing 0~64
15	1~50	1~50 = boost trigger level 1~50
16	1~10	1~10 = boost trigger rate 1~10
17	0~64	0~64 = 0~64 turbo timing
18	0~15	0 – instant, 1- 0.05s, 2- 0.1s, 3- 0.15s, 4-0.2s, 5-0.25s, 6-0.3s, 7-0.35s, 8-0.4s, 9-0.45s, 10-0.5s, 11-0.6s, 12-0.7s, 13-0.8s, 14-0.9s, 15-1s
19	1~10	1~10 = turbo on rate 1~10
20	0~10	1~10 = turbo off rate 1~10, 0- instant

Mode Descriptions:

<b>Item name:</b>	<b>Explanation:</b>
<b>General:</b>	
1. Running Mode	Includes “Forward/Brake” “Forward/Reverse” and ”Forward/Brake/Reverse” mode
2. Low Voltage Cutoff	For some batteries when they are over-discharged, the battery may be got failure, so it can use this function to set the minimum working voltage to protect the battery
3. ESC Overheat Protection	When ESC default temperature is achieved, it will have adaptive system to control the max power output to the motor to avoid burning the ESC
4. Motor Rotation	It determines the motor running direction (Clockwise or Anti-Clockwise)
5. Race Mode	To run with modify motor (4.5T~9.5T), please select “Modify” mode. To run with Stock motor (10.5T or over), please select “Stock” mode
6. Dead Band	To control the sensitivity of the forward/brake throttle at neutral position. If the dead band value is lower, it will be more sensitive to pull the motor up or down in rotation at neutral position
<b>Throttle:</b>	
7. Punch Rate A	To control the initial power to the motor. Higher value have more initial power that are suited for high traction track. For low traction track, it should set to lower value
8. Punch Rate B	To control the overall power feeling. High value have aggressive power feeling that are suited for high traction track. For low traction track, it should set to lower value
Switch Point (A to B)	Not exist start from the new firmware RS-Code-V2.1
Throttle Curve	To select the linear or custom throttle curve. In modify mode, it is suggested to use linear curve. In stock mode, it is suggested to use custom curve to change the throttle curve to increase the power delivery to the motor
9. Throttle Reverse SPD	To control the reverse power output to the motor, higher value will provide more reverse power delivery to the motor
<b>Brake:</b>	
Initial Brake	To control the instant brake force to the motor . Higher value has more initial brake force to the motor when the brake is triggered

10. Drag Brake	The motor will be braked automatically when the throttle is returned from forward to neutral position. For higher drag brake value, the motor will have more automatic brake functions
11. Brake Force	To control the motor maximum brake force. Higher value have higher motor brake force
12. Brake Rate A	To control the initial brake power to the motor. Higher value have more initial brake power that are suited for high traction track. For low traction track, it should set to lower value
13. Brake Rate B	To control the overall brake feeling. High value have aggressive brake feeling that are suited for high traction track. For low traction track, it should set to lower value
Switch Point (A to B)	Not exist start from the new firmware RS-Code-V2.1
Brake Curve	To select the linear or custom brake curve. For higher rpm motor, the brake may not be enough and it is suggested to use custom curve to change the brake curve to increase the brake power delivery to the motor
<b>Boost:</b>	
14. Boost Timing	It is the boost timing to the motor when the boost trigger level is achieved. For higher value, it can increase more power to the motor. The max boost timing+ turbo timing is 64degree
15. Boost Trigger Level	To set where to trigger the boost timing position. Having higher value will be more advance to trigger the boost timing start up
16. Boost Trigger Rate	To set how fast to open all boost timing up. Having higher value will be more advance to open all boost timing up
<b>Turbo:</b>	
17. Turbo Timing	It is the turbo timing to the motor. For higher value turbo timing, it can increase more power to the motor The max boost timing+ turbo timing is 64degree
Start RPM	It is the RPM to start the turbo boost timing. It can be selected by the activation method
18. Turbo Delay	It is the delay time to start up the turbo timing after the activation condition is achieved. Higher value will have more delay to start up the turbo timing function
Activation Method	If 'start rpm + full throttle' is selected, that mean the turbo timing will be activated when rpm is achieved and throttle is at full

	position. If “full throttle” is selected, that mean the turbo timing will be activated only when the throttle is in full position and the turbo delay time is achieved
19. Turbo Rate “On” Slope	To control how fast to open all turbo timing up. Having higher value will be more advance to open all turbo timing up
20. Turbo Rate “Off” Slope	To control how fast to pull down the motor rpm when the forward throttle is returned. Higher value will let the motor rpm pull down more quickly
<b>Data Analysis:</b>	
Min Battery Voltage	To show the minimum battery voltage when in the running
Max ESC Temp	To show the esc maximum temperature when in the running
Max Motor RPM	To show the motor maximum rpm when in the running
<b>Update Setting:</b>	After update setting is pressed, all updated setting will be downloaded to the esc at once
<b>Reset Factory Setting:</b>	After reset factory setting is pressed, all default setting will be downloaded to the esc at once
<b>Firmware Update:</b>	
Device	To show the device information
Hardware	To show the hardware information
Software	To show the software version
Information	To show any further information about that esc