

TALON ESC OPERATIONAL TONES AND ERROR CODES

Tone	Talon LED	Meaning	Description
Castle power tune with beeps corresponding to number of cells	Blinks out cell-counts with RED LED	Power up notice	ESC plays Castle signature tone and beeps out the number of cells attached to controller. Note: when Auto-LiPo detect is disabled by the user, ESC will not beep the number of cells. ESC will not run motor until it receives an arming signal from radio via the throttle lead.
Arming tune	N/A	ESC ready to run motor	ESC plays the Castle arming tone once it receives a low throttle signal from the receiver. Controller is ready to run the motor at this point.
●	RED LED matches tones	Powered ESC notice	ESC beeps motor every 10 seconds to remind user that power is connected to the ESC. This notice may be disabled in Castle Link.
● —	RED LED matches tones	Low voltage cutoff	Main battery voltage dropped below the cutoff value. Default is Auto-LiPo which generates a value using 3.2V times the detected cell count. Other settings may be entered in Castle Link.
● — ●	RED LED matches tones	Over temperature	ESC reached an overtemp condition when operated under too high a load, operated without proper cooling airflow, or when operated at partial throttle (40%-99%) with too large a load.
● — —	RED LED matches tones	Excessive load	ESC detected very high current spikes. Causes may include damaged wiring leading to or in the motor, or the use of too large a motor for the controller.
● ●	RED LED matches tones	Start fail	ESC was unable to start motor
● ● —	RED LED matches tones	Radio glitch	ESC detected unusual signals or loss of signal on throttle wire.
● ● ●	RED LED matches tones	Motor anomaly	ESC detected a sudden mechanical interruption of the motor's rotation.
— ●	RED LED matches tones	Over-current	ESC detected operating currents that exceed the current rating of the ESC.
— ● —	Red LED matches tones	BEC over temperature	ESC has detected that the integrated BEC is overheating due to current draw above the rating of the BEC.
None	Flashing GREEN LED	Locked head speed	Governor mode has locked the head speed.
None	SOLID RED	Full throttle	ESC is at full throttle.

KEY

● = SHORT TONE
— = LONG TONE