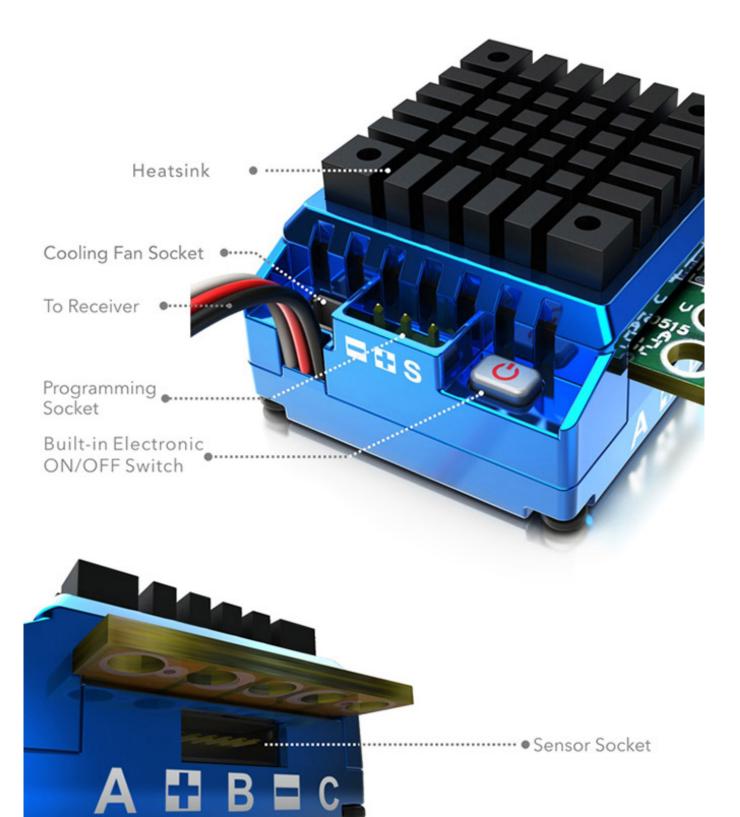
TS 120A Electronic Speed Controller (SK300044)



TS120A Advanced Timing System

Toro TS 120A ESC for 1/10th Scale Car is designed for the use with 2S to 3S LiPo battery packs, has a 3.5T motor limit and features a 6V/3A BEC system. This feature does away with the need to use a separate receiver battery pack.





Less Resistance, Less Heat, More Efficiency

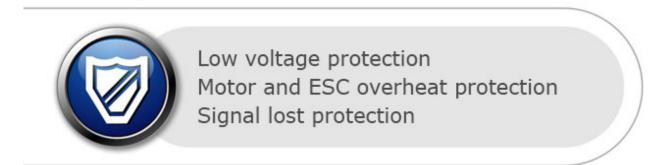


10 User Modifiable Profiles

The users could set and store 10 sets of profiles in the ESC. These data could be called out at any time without any special program setting. All the setting can be exported or imported so that the user could compare and analyze.

	utt. CSL 3G	6:30 PI	M	*	91% 🕮	
	GeneralSetting	ESC Default	ESC Read		Apply	
	ThrottleControl	Pre Setting	Modify Profile1 Profile2	Defa	ult >	
	BrakeControl	Running Mode	Profile3 Profile4 Profile5	rd/Bra	ke >	1
		Overheat Protectio	Profile6 Profile7		>	
	Boost	Reverse Speed	Profile8 Profile9	100%	25 %	
	Turbo	Voltage Cutoff Voltage Auto	3.0V	11.0V	6.4 V	
	Upgrade	Motor Direction	Normal	O R	everse	

Safety Features



Firmware Update

The firmware can be updated by connecting the ESC to a PC or a smart phone.

	utt. CSL 3G	6:30 PM	м	\$ 92% KM	
D	GeneralSetting	ESC Default	ESC Read	Apply	
	ThrottleControl	Information		Upgrade	
	BrakeControl				
	Boost	and the second states of the second			U
		Device Name:	CAR_ES	с	
	Turbo	Hardware Version:	V1.0		
		Software Version:	V1.0		
	Upgrade	Upgrade Version:	V1.1		

Programming Methods

The ESC can be programmed with a PC connected with SKYLINK (SK-600013)



pout ceneral set	ing Throttle Control Brake Co	ntrol Boost Turbo	Firmware Opgrade
Pre Setting	Hodi fy 💌	Rename Default	
Running Mode	Forward/Brake (*)	0	
Motor Direction	☞ Hormal (*)	0	
Reverse Speed	253		100% 78% (*)=25%
Voltage Cutoff	3. OV		11.0V 6.4V 🕼 Auto (*)
ESC Overheat Protection	105°C/221°F (*) 💌 🔮	Motor Overheat Protection	105°C/221°F (*)
USB Connected	ESC Connected	Load From PC Save To P	C ESC Default ESC Read Save To

The ESC can be programmed with a smart phone via Bluetooth Module (SK-600058)



The ESC can be programmed with the PROGBOX (SK-600046)



Precise Programmable Items

Advanced Timing System Users could set the turbo and boost timing which can improve the motor RPM to get its best performance.

	aul CSL 3G	6:30 PM		\$ 92% 📾	
	GeneralSetting	ESC Default ESC	C Read	Apply	
	ThrottleControl	Boost Timing	15	- +	
	BrakeControl	Boost Start RPM	15000 rpm	- +	
	Boost	Boost End RPM	25000 rpm	- +	U
	Turbo	Boost Liner Slope	Yes	🔵 No	
	Upgrade	Boost Constraint by TH	Yes	🔵 No	

Boost Timing Setting



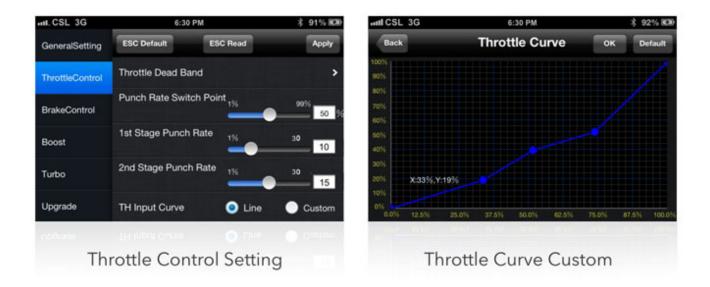
Boost Curve Custom

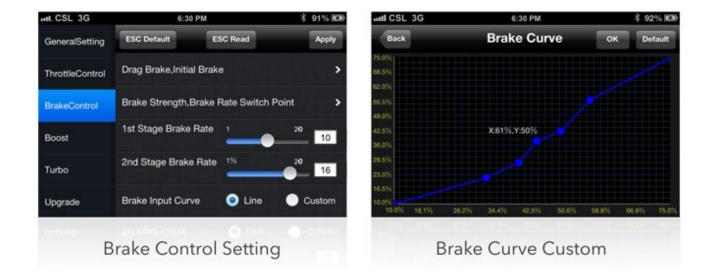
			-		-
	att. CSL 3G	6:30 PM		≱ 92% ⊠⊒∋	
	GeneralSetting	ESC Default ESC I	Read	Apply	
	ThrottleControl	Turbo Timing	10 deg	- +	
	BrakeControl	Turbo Activation Method		Full TH >	
U	Boost	Turbo Full TH Delay	0.10 S	- +	J
		Turbo Start RPM 2	0000 rpm	- +	
	Turbo				
		Turbo Engage Slope	48/0.1S	- +	
	Upgrade	Turbo Deactive Slope	30/0.1S	- +	
				CONTRACTOR OF TAXABLE PARTY.	



Well-performed Throttle and Brake Control Function

Users could set the punch/brake control rate by point or customize the throttle/brake curve by themselves, and different customers' request for linear and power all can be met.





TECHNISCHE DATEN

Constant/Burst Current120A / 760AMotorsSensor & Sensorless Brushless MotorsCars1/10 and 1/12 Buggy & TruckMotor Limits5-6S NiMH or 2S LiPo: $\geq 3.5T$ (1/10 Buggy), $\geq 5.5T$ Motor Limits8-9S NiMH or 3S LiPo: $\geq 5.5T$ (1/10 Buggy), $\geq 8.5T$ Resistance0.0003 Ohm

Battery Cell Count BEC Output Fan Weight Dimensions (LxWxH)

4-9S NiMH or 2-3S LiPo 6V 3A, Linear 5V 0.2A, Max. 12.6V 45g (without wires) 39x38x20mm

DOWNLOADS

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¹ <u>SkyRC Toro TS120A [SK300044] Manual (643.3 KiB)</u>

SkyRC_UsbLink_V1.07.zip (1.1 MiB)