TEU-101BK





TEU-101BK is a forward / reverse running electronic speed controller featuring a high frequency wave drive system. Read this instruction manual carefully before operation. For safety pre-cautions, always follow the instructions provided. Improper operation may result in a serious accident.

★Never use electronic parts that prevent current flow, such as schottky diodes. They cause counter current when car is in reverse damaging the electronic speed controller. Remove any such parts if already installed.

★Disconnect motor cables during set-up.

Tamiya TEU-101BK (forward / reverse)

★Compatible receiver: TAMIYA, KO, FUTABA, JR,

SANWA (with Z connector)

◆Control system : High frequency wave drive system
 ◆Max. continuous current (FET spec) : Forward 60A, Reverse 60A

Power supply: 7.2V (with 6 cells)

Compatible motor : Electric motor for R/C cars (Sport-Tuned Motor)

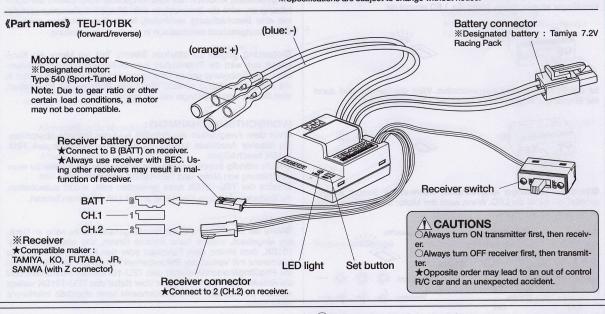
Driving frequency: 1kHz

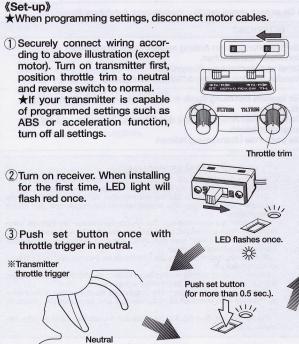
Output voltage for receiver: 7.2V

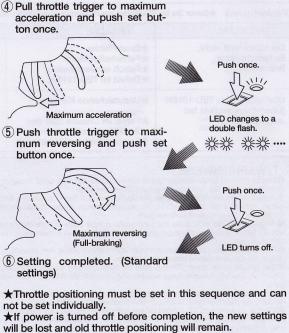
Dimensions: 40.7 x 36.8 x 22.4mm (except projections)

Weight: 54g

*Specifications are subject to change without notice.







★Until you correctly complete the step, you can not progress

★You must set new throttle positioning when changing trans-

to the next one.

mitters.

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Turning reverse function off

★Allows you to enter races forbidding reverse running. Follow the instructions below to turn reverse function off (pushing throttle trigger will activate brakes only).

★Follow same sequence to turn reverse function on (switches between on / off setting each time done).

Turn on transmitter. Turn on receiver while holding down the set button, then release button immediately (within 3 sec.). Flashing LED quickly flashes red twice and turns off (only flashes once when turning reverse function on). Setting completed



★Checking if reverse function is on or off. When reverse function is on: LED will flash red once when turning on transmitter and then receiver.

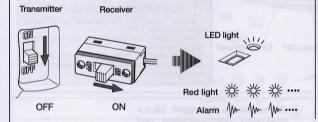


When reverse function is off: LED will flash red twice when turning on transmitter and then receiver.



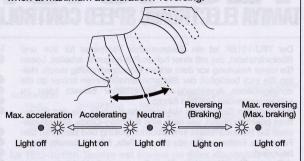


If receiver is turned on while transmitter is off, LED will flash. If motor is connected an alarm will also sound.



Throttle operation and LED light

If settings are correct, LED will turn off when trigger is in neutral, turn on when accelerating / reversing, and turn off when at maximum acceleration / reversing.



Tamiya TEU-101BK is equipped with two safety functions.

Heat protection mechanism: If TEU-101BK starts to overheat due to long use, power to motor is reduced, causing car to slow. If further overheating occurs, power to motor is stopped, preventing any damage. After cooling, the heat protection mechanism will automatically reset.

Overcurrent protection mechanism: When motor short circuits, power to motor is automatically stopped. Overcurrent protection mechanism will not reset automatically. After fixing the car, restart the transmitter and receiver.

《CAUTION》

Check polarity (+/-) of battery before connecting. Incorrect connection could damage internal electronics of TEU-101BK.

Do not repeatedly accelerate and reverse as may cause motor and TEU-101BK to overheat.

Olf TEU-101BK gets wet, immediately turn off, disconnect battery and allow to air dry.

《Installation》

Putting receiver and receiver antenna near devices circulating large amounts of electrical current, such as TEU-101BK, motor, running battery or cables, will lead to interference causing loss of control. Receiver and receiver antenna must not touch TEU-101BK, and antenna must not cross over with cables from TEU-101BK. Carbon or metal chassis may also transfer interference.

《Trouble shooting》 ★Before sending your R/C model for repair, check it again using the chart below.

PROBLEM	CAUSE	SOLUTION
Motor does not work. No brake control.	★Setting error. ★Faulty motor. ★Connection error. ★Faulty TEU-101BK.	Re-program settings from the beginning. Replace motor. Inspect cables and wiring. Contact your local dealer/agent.
Overheating of TEU-101BK. (Heat protector is active)	★Insufficient cooling. ★Faulty chassis driving gear. ★Improper gear ratio.	 Create better ventilation by making holes on body shell, etc. Inspect rotating area of chassis. Reassemble if required. Set proper gear ratio.

WARNING

This product is an electronic speed controller for land based R/C models. Do not use for any other purpose.

Securely connect electronic speed controller and servo to receiver. Cables can become disconnected due to strong vibrations during use, resulting in loss of con-

■Make sure no one else in the area is using the same frequency as you. Frequency interference can cause serious accidents.

Stop operation if lightening or thunder occurs, as lightening may strike the transmitter antenna.

●Do not operate your R/C model in puddles or in rain. Interior electronics may get wet resulting in loss of control.

To prevent fire or an out of control car, always remove or disconnect batteries af-

•Keep transmitter, battery and R/C model away from small children to prevent possibility of personal injury, burns, intoxication, suffocation etc.

Check polarity (+/-) of motor and battery before connecting. Incorrect connection could damage internal electronics.

Ousing a low turn motor at low frequency may damage electronic speed controller and motor.

OAvoid continuous operation. Battery connector may melt or become deformed by heat. To prevent burns, do not touch motor or electronic speed controller straight after use.

OShort circuits to cables will damage internal electronics and chas-

sis.

OThis product contains precision electronic parts that may be damaged by high impact, water or humidity.

Obo not disassemble or modify. Use designated parts only. Foreign

parts may not be compatible causing damage to internal electron-

ODo not operate R/C model on the street or in a crowded area.

