

INSTRUCTION MANUAL FOR ESC B1006 (ONLY RTR)

Technical Data

- Linear forward, reverse and brake operation
- 6-7 cells (7.2-8.4V)
- Recommended motor: 15 Turns
- High-frequency: 1.5 KHZ
- Current capacity: 200 Ampere forward/100 Ampere reverse
- Output Voltage: 6.0V
- Case size: 33x27x17mm
- Weight: 45g

Protection Operation

1. Overcurrent Protection

When an overcurrent flows due to an output short circuit, etc., the overcurrent protection circuit automatically limits the current to protect the FET.

▶ Remove the cause of the short circuit, etc. before operating the model again.

2. Heat Protection

When abnormal heating of the FET due to an overload, etc. is detected, the heat protector operates so that the speed is gradually reduced.

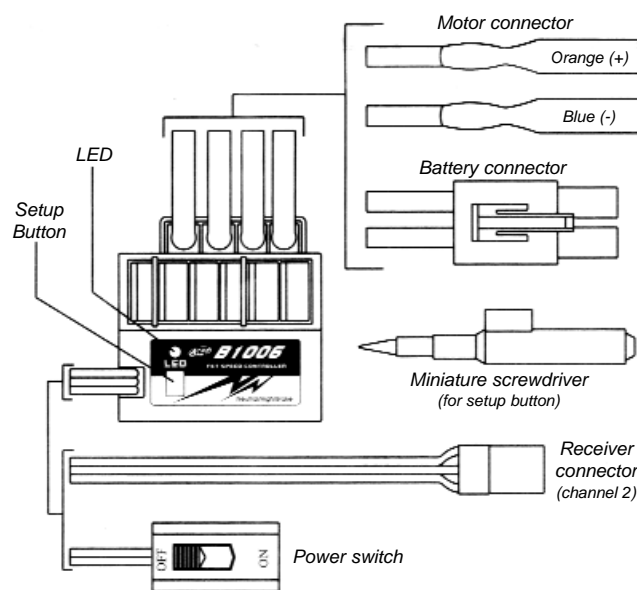
▶ When the FET temperature drops, the heat protector automatically resets. However, remove the cause of the overheating before operating the model again.

3. Low voltage Operation

When the battery voltage drops, this function limits the motor output current and ensures steering operation.

▶ After the speed drops, immediately recover your car.

Connection



Installation

- Keep the speed controller and all power wires at least 2cm from the radio receiver and receiver antenna.
- To securely mount the speedo to the chassis of your car using always double sided (servo) tape.
- Always install a motor noise killer capacitor.

Radio-Setup

Before setting each point, set the transmitter throttle channel trim to neutral.

1. Turn on the power in transmitter.

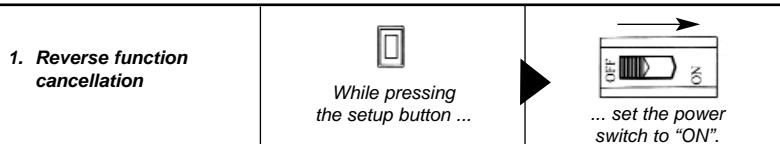
2. Neutral setting		Press the setup button for 1sec. Beep sound confirm	LED Continuous single blink
3. Full Throttle setting		Press the setup button. Beep sound confirm	LED Continuous double blink
4. Full Brake setting		Press the setup button. Beep sound confirm	LED If the LED goes out, setting is complete.

Continuous rapid blink
If the LED does not go off but blinks rapidly, setting was not performed normally. Repeat setting from "Neutral point setting".

- * Since the data is read at the end of setting of all points, the points cannot be set independently.
- * If the amp power was turned off during setting, the setting points cannot be memorized. The previous settings are retained.
- * The confirmation beep sounds only when the motor was connected.

Canceling the Reverse Function

The reverse function can be cancelled by the following method (Brake operation only).



Operation can be switched to reverse function by repeat this settings.

Warning

- Never leave your RC model unsupervised with the battery connected. If a fault should occur, this could cause a fire in the model and threaten anything in the vicinity.
- The speed controller and all electronic components must not be allowed to contact with water. Do not run your RC model in the rain.
- Never reverse the battery polarity. Reverse connection will immediately destroy the controller. Use only polarised connectors.
- All cables and connectors must be effectively insulated. Short circuits can damaged your speed controller.
- When a motor is connected to the controller, you must not connect a separate battery and run the motor. This will damaged the controller.
- Always turn your transmitter on first and off last. If you start your car first, you will lose control of the car and an extremely dangerous situation may occur.
- Not suitable for children under 14 years. This unit is not a toy.

Checker LED Display

The amp operating state can be checked with the checker LED as shown below.

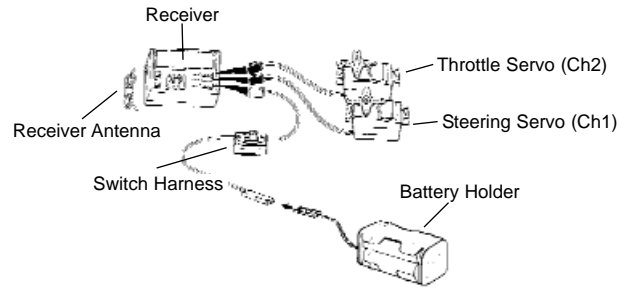
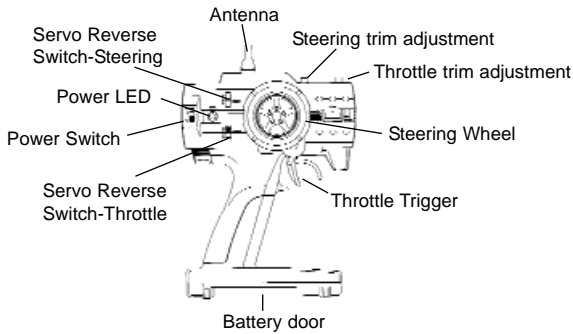
After switching on the ESC	Reverse operation set (LED single blink)
	Brake operation set (LED double blink)
Full Throttle	LED off
Forward	LED on. Becomes brighter nearer the full throttle.
Neutral	LED off
Reverse Brake	LED on. Becomes brighter nearer the max. brake.
Max. Brake	LED off

When the transmitter power was turned off first.
LED blinks and beep also sounds.

* Not used with PCM receivers.
* This function is not performed in environments such that the servo operates erroneously.

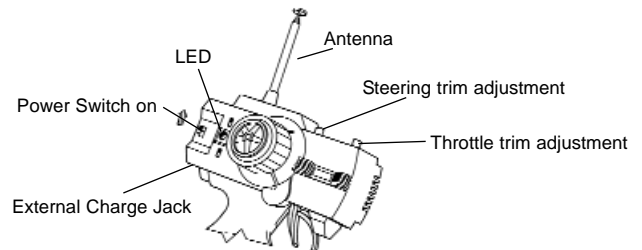
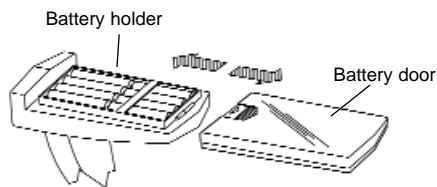
INSTRUCTION MANUAL FOR RC SPORT 2-PY

Quick Reference Guide



1. Install the antenna by threading it firmly into place in a clockwise direction.
2. Install 8-AA alkaline batteries into the transmitter's battery holder located in the base of the transmitter. Be sure to install the batteries in the direction shown on the battery holder.
3. Install 4-AA batteries in the receiver battery holder (the battery holder can be omitted when using an ESC).
4. Connect servos, 4-cell battery pack and switch harness to the receiver as shown above.
5. Turn on the transmitter, then turn on the receiver switch harness.
6. Center the steering and throttle trim adjustments and make sure all servos operate according to transmitter movements.
7. Turn off the system, receiver first, then transmitter.
8. Install the entire radio system into your model as shown in the model's instruction manual.
9. If you need to reverse the direction in which a servo rotates, slide the servo reversing switch to the "R" position.

The Transmitter



The transmitter requires 8 AA batteries. Do not mix old and new cells or mix alkaline, Ni-Cd and Ni-MH batteries. To install the batteries, slide open the battery door on the bottom of the transmitter. Install the batteries in the holder following the configuration molded into the case, making sure to note the proper polarities on each cell. Close the battery door.

Turn the power switch on. The red "Batt" LED should illuminate. If not, turn off the transmitter and check the configuration of the batteries to make sure each cell is firmly in place and in the proper direction. If the red LED blinks, the batteries are low on power and should be replaced. **DO NOT OPERATE AN R/C VEHICLE WITH LOW BATTERIES AS IT COULD RESULT IN REDUCED RANGE AND POSSIBLE LOSS OF CONTROL OF THE MODEL.**

Install the antenna by threading it firmly into place in a clockwise direction.

*The RC SPORT 2-PY is equipped with an external charge jack for re-charging optional Ni-Cd or Ni-MH rechargeable batteries. Never attempt to re-charge alkaline or other non-rechargeable batteries.

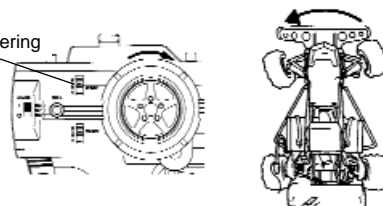
During normal conditions, the range, or safe operating distance from the transmitter is as far as you can clearly see the model. The RC SPORT 2-PY operates on the 27 AM frequency bands. There are 12 different channels in the 27Mhz AM. For safety reasons, you must always be aware of what channel you are using so that no two radios in the same area are ever operating on the same frequency simultaneously.

Installation

Receiver: Insert 4-AA alkaline batteries into the receiver battery holder in the direction shown on the battery holder. After the servos and receiver are mounted into your model per the model's manual, connect the servos and switch harness to the receiver as shown. The servo connectors are polarized to prevent improper connection, but do pay close attention when connecting them to the receiver. The black wire goes toward the outside edge of the receiver case. If you are using an electronic speed control connect the ESC's throttle lead to channel 2 in the receiver and refer to the ESC's instructions for further set-up details. Center the steering and throttle trim adjustments. Make sure all servos operate according to the movement of the transmitter controls. Turn off the switch harness or ESC, then the transmitter and be careful not to move the servo output arms from their centered position during installation.

Completely un-wind and route the receiver antenna according to the model's instructions. Do NOT cut the antenna or you may lose adequate operational range. If your antenna is too long to route through your model, make an antenna shortener out of cardboard with the template. Keep the antenna away from moving parts and the power wires in your model to avoid interference.

Servo Reverse Switch - Steering



Steering: Move the steering control left and right. Be sure there is no binding and that the car's steering controls move in the proper direction. If the steering wheel is turned to the right but the car turns left, move the steering reversing switch to the "R" position.

Throttle: Squeeze the throttle trigger. Be sure that your motor can reach full throttle (carburetor fully open on a gas engine). If the throttle servo moves in the wrong direction, move the throttle reversing switch to the "R" position. With the trigger released, the carburetor should be open approximately 1/16" for idling. The car should brake when the trigger is pushed away. Adjust the idle stop screw on the carburetor if the engine dies when the brake is applied (see the model's instruction manual). To set-up your electronic speed control to the transmitter, use your ESC's instruction manual.