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1. Introduction

We sincerely appreciate your purchase of the Aggressor 3DS. The Aggressor 3DS is loaded with all the basic features you need for the racing. Please read this manual carefully to maximize your R/C driving experience.

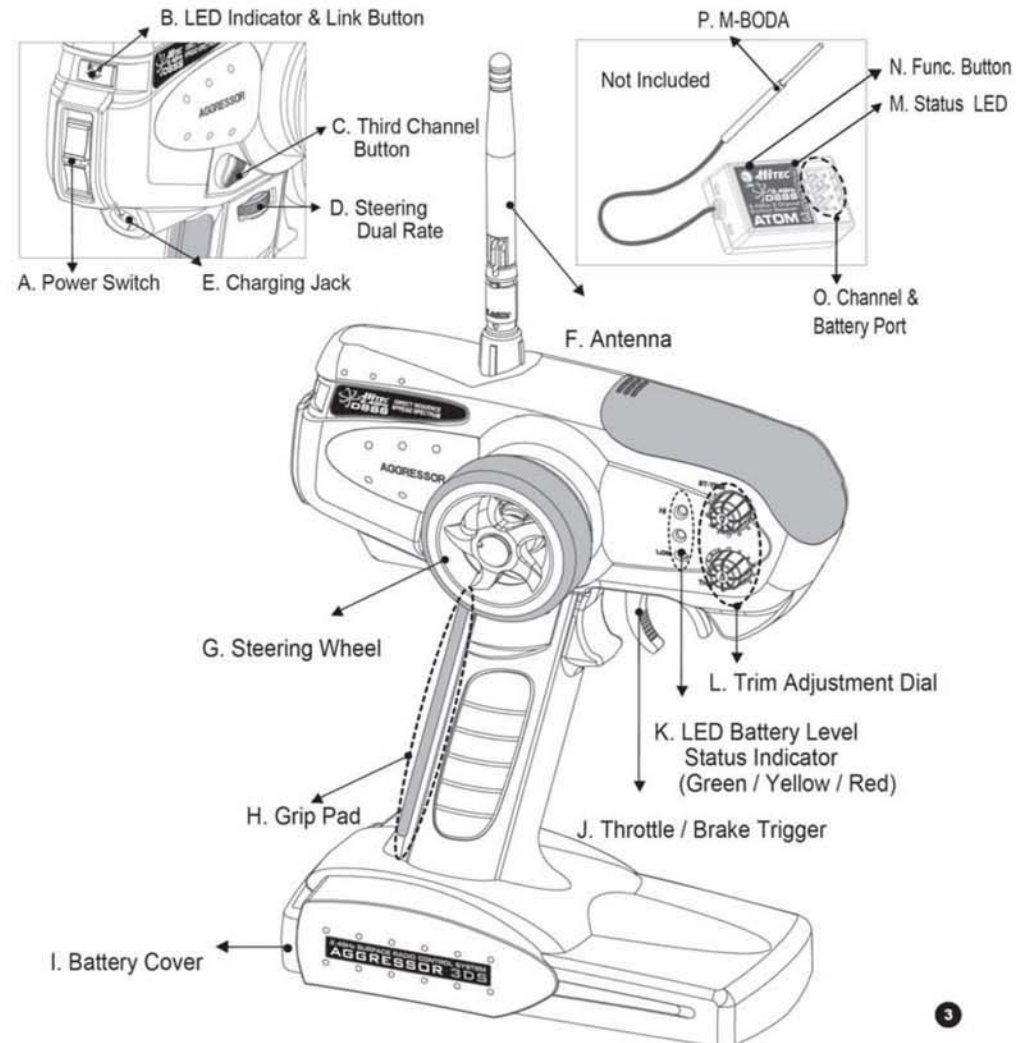
2. Features & Specification

A) Radio Features

- Ergonomically Designed 3-Channel Pistol Grip Computer Radio System with 2.4GHz Technology.
- Dual Rate Steering (Adjustable on the drive)
- Trims (Steering / Throttle & Brake)
- Third Channel Button
- Interchangeable Assorted Color Rubber Grip Pads in Two Sizes (Sold Separately)
- Foam Steering Wheel for Comfortable Control
- Transmitter Charging Jack for Optional Rechargeable Batteries
- LED 2.4GHz Status Indicator Light
- Battery Level Indicator LED.

- 2.4 GHz Built-in
- End Position Adjustment (EPA)
- Servo Normal / Reverse Selection Switch

A. Designation



A) Power Switch

- Slide the switch up to turn the transmitter on, and down to turn it off.

Warning: Always turn your transmitter on first and off last to prevent accidental runaways.



B) LED Indicator & Link Button

- Use this Button to link with ATOM 3 Receiver.

C) Third Channel Button

- Use the button to shift gears (High/Low or Forward/Reverse) in a vehicles equipped with transmitter manual.

D) Steering Dual Rate

- Adjusts the overall travel of the steering servo.
- Scroll the dial forward with your thumb for maximum steering.
- Scroll the dial backward with your thumb to reduce the travel.
- Use this to fine tune your vehicle's handling for the surface conditions.
- Use more steering rate for high grip surfaces and less for low grip surfaces.

E) Charging Jack

- The transmitter charging jack located under the power switch is for use with the Hitec optional CG-25 charger. The charger can be purchased separately if using rechargeable batteries.
- (See "Recharging Batteries" for more information about this feature.)

Warning: Do not attempt to charge alkaline and other dry cell batteries with the charger; they may explode.



F) Antenna

- Aggressor 3DS's rubber duck antenna is specially designed to get the best performance out from 2.4GHz frequency environment.

G) Steering Wheel

- Used to control the steering of your vehicle.

H) Grip Pad

- The removable grip pad helps keep your hand secure on the radios pistol grip handle.
- The Grip Pads are available in assorted colors and sizes to customize the look and feel of your radio.

I) Battery Cover

- It protects batteries from shocks, dust, and fall off.

J) Throttle / Brake Trigger

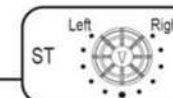
- Used to control the throttle and brake of your vehicle.
- Pull the trigger for throttle and push it forward for braking or reverse when using a reversing Electronic Speed Control.

K) LED Battery Level Status Indicator (Green / Yellow / Red)

- Three color LEDs indicate current battery status of transmitter.

L) Trim Adjustment Dial (Steering and Throttle Trims)

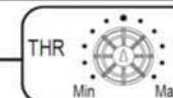
- These trims are used to fine-tune the point where the servo returns to center.
- Adjust the (ST-TRIM) so your vehicle travels perfectly straight when the steering wheel is at neutral Position.



Note : If you move the trim to its maximum and the vehicle does not go straight, move the servo horn on the servo output spline or adjust the sub-trim to fix the problem.



- Use the (THR-TRIM) to adjust the "Drag Brake" or "Coast Brake"; this is the amount of braking that occurs when the trigger is at neutral.



Note : Do not mount the horn on the servo until you turn on the radio and center the trims and sub-trims. Always check your trims before you drive or race.



M) LED Indicator

- Single red LED indicates current status of receiver.

N) Function Button

- Allow Atom3 to link with 3DS or Spectra 2.4DS module.

O) Channel & Battery Port

- Up to three servos and one battery pack can be plug in through this port.

P) M-BODA

- Hitec's all new Mini-Boosted Omni Directional Antenna will allow you to have more secure and accurate control of the model.

B. Specification

i. Transmitter (AGGRESSOR 3DS)

- Power Output : 300mW
- Capital Drain : 190mA
- Type : 2.4GHz Built-in Type Surface Radio
- Power Supply : 8-AA Sized Alkaline, Ni-Cd or Ni-MH Batteries
- Frequencies : 2.4GHz DSSS (Direct Sequence Spread Spectrum)

ii. Receiver (ATOM 3)

- Channel : 3 CH
- Frequencies : 2.4GHz DSSS
- Operating Voltage : 4.5-7.4V (available LiPo 2cells)
- Size : 31 x 19 x 12 mm
- Weight : 6.8g (0.24oz)

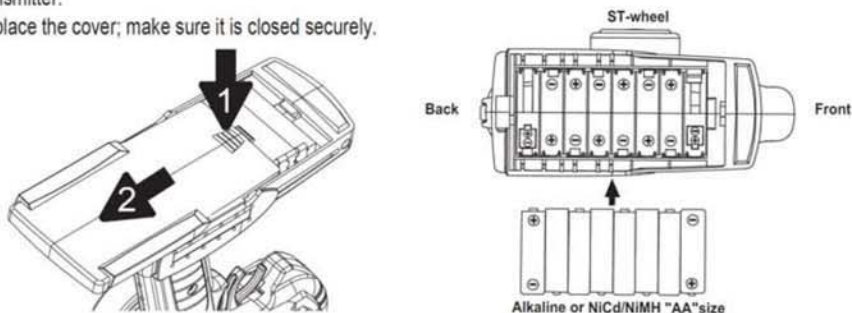
iii. Accessories

- Finger Tip Brake Pad
- Rubber Grip Pads in Blue, Red, and Black (Small: Part # 54309, Large: Part # 54310)
- Overnight Wall Charger: Part # 43025

3. Installation & Setup

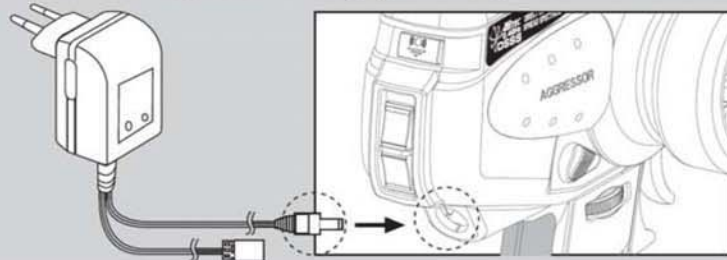
A. Battery Installation

- Press down on the battery cover and slide in the direction illustrated.
- Remove the cover and install the batteries as shown.
- Remember to be careful and pay close attention to the polarity of each cell; other wise, you could damage the transmitter.
- Replace the cover; make sure it is closed securely.



*Battery Recharging

- Connect the Hitec's genuine overnight wall charger* (sold separately) to the transmitter charging jack located under the transmitter power switch to charge optional re-chargeable batteries.



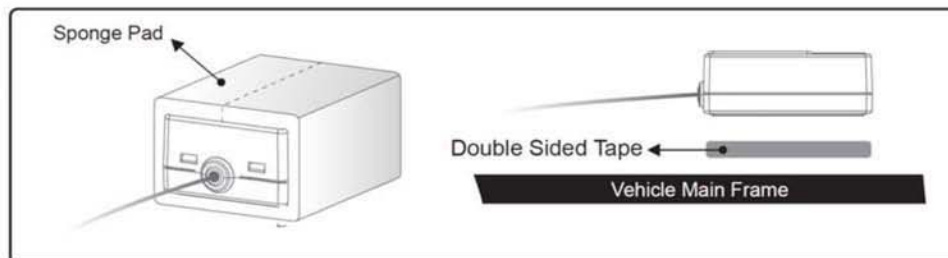
Note: If the charger is correctly hooked up to the transmitter, the red light on the charger will be lit while it's charging. If it is not, check the connection or the battery.

- You must install individual AA size rechargeable batteries.
- Only use NiCd or NiMH type. (Alkaline batteries are not rechargeable)
- Connect the optional Hitec CG-S25 overnight wall charger to the charging jack located under the switch to charge. Depending on the capacity of the battery;
- A full charge on a typical NiCd will take 12~16 hours.
- A full charge on a typical NiMH will take 24~36 hours.

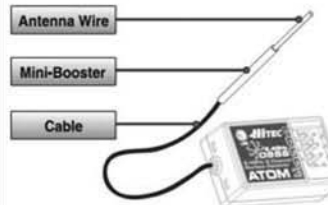
B. Receiver Installation

i. Installation & Warnings

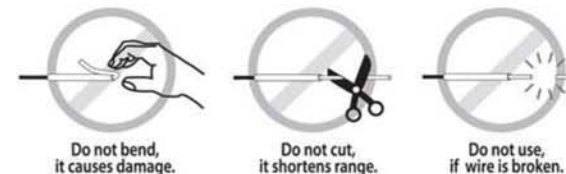
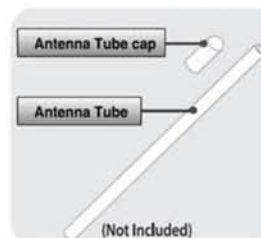
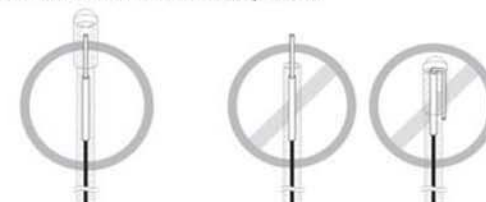
2.4GHz DSSS system. ATOM 3 Receiver is one of smallest 2.4 Receiver available in th market. Even though this receiver is small, still it is built for a though using conditions. However, We recommend to use wrapping sponge pad or thick double sided tape to protect the system from the shock during its operation.



Warnings



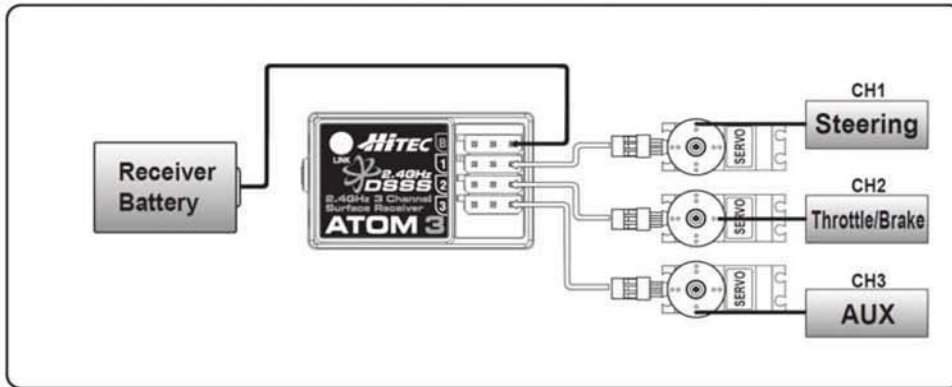
Put the antenna in the antenna tube to protect it.



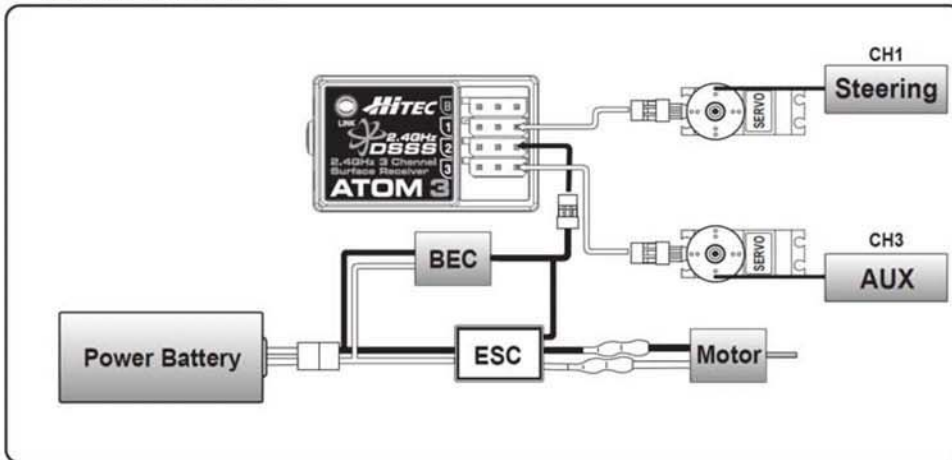
ii. Connection Diagrams

1. Glow, Gas or Electric Powered Vehicle Using a Separate Receiver Battery Supply.
Follow this connection diagram when using a dedicated 4.8 to 6.0V. NI-MH, NI-Cd battery pack, or 2S Li-Po/Li-Fe batteries. *

* Servo must be compatible with 7.4V 2S Li-Po / Li-Fe Batteries.



2. Electric Powered Vehicles



iii. Link(ID-Setting) Method

AGGRESSOR 3DS uses 2.4GHz DSSS Technology and it uses a synchronized protocol and binds the Atom 3 receiver to your transmitter. Once the receiver and module are "bound", no other transmitter can interfere with your receiver during its operation.

In the case of multiple model memory transmitters, you can bind as many Atom 3 receivers to your transmitter as necessary. Each module and receiver set is paired at the factory for your convenience.

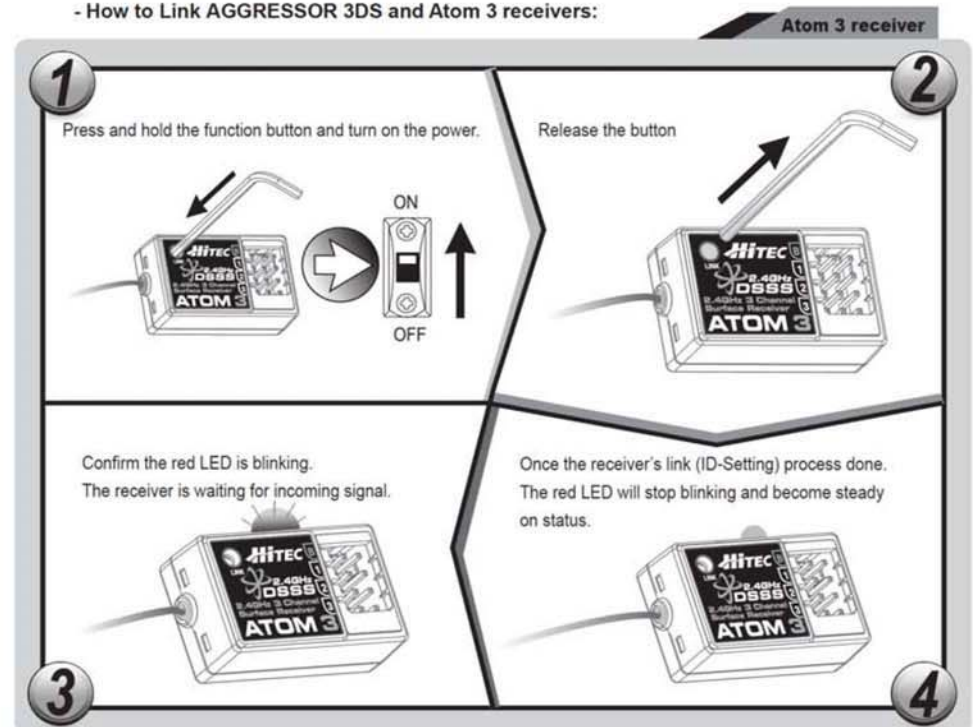
Note: If purchased separate Atom 3, the Link (ID-Setting) process is required.

- How to Link additional receivers:

Please refer to the connection diagram and connect all the necessary items before the process.

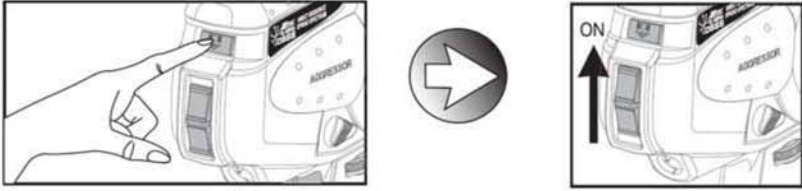
Note: To avoid any interference, the link process should be done within 3 feet (1 meter) in distance.

- How to Link AGGRESSOR 3DS and Atom 3 receivers:




Spectra 2.4DS

1 Press and hold the function button and turn on the power.




2 Release the button the red LED will blink and looking for a receiver.




Confirm that the receiver's red LED is solid on.

3

4 Turn off receiver first then the transmitter power.



5 Turn on receiver first then the transmitter power.



Now you are ready to run. 🎵

iv. Fail-Safe/Hold Mode setup

What is Fail-Safe Mode?


If you use the FAIL-SAFE function, and set it up properly, should the receiver signal somehow be interrupted or interference were to occurred, the servos will move to your pre-set FAIL-SAFE position you previously stored in the receiver during the FAIL-SAFE set-up.

If FAIL-SAFE has not been activated, the signal is switched off after the HOLD period of 1 sec. This means that the servos become "soft" and remain in their last commanded position under no load be careful, (this may equate to full-throttle!), until a valid signal is picked up again.

In the interests of safety, we recommend that FAIL-SAFE should always be activated, and the FAIL-SAFE settings should be selected so as to bring the model to a non-critic (e.g. motor idle / electric motor OFF, control surfaces neutral, or full brake, etc.)


Fail-Safe Setup Method:

1. Press the function button and turn on the transmitter.



AGGRESSOR 3DS

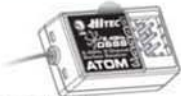
2. Press the function button and turn on the power.



ATOM 3


3. Check the LED Status

4. LED On: Fail-Safe Mode ON



When LED Off (Hold Mode On):
To switch to the Fail-Safe Mode, first adjust all the control knobs to the fail-safe position you prefer, then press the function button once, the LED turns on at the same time the fail-safe position will be saved.

4. LED Off: Hold Mode On



When LED On (Fail-Safe Mode On):
Press the function button once to switch to the hold mode, the LED will goes off and indicates that the receiver is in Hold Mode.
Note: once you switch to the hold mode all the saved Fail-Safe position will be deleted.

Push the button once to switch the mode

Once Fail-Safe/Hold Selection Mode activated, you can keep switching the mode by pressing the function button.

**NOTE: If FAIL-SAFE is deactivated, the FAIL-SAFE position settings are also deleted!
The FAIL-SAFE settings should be checked every time before you run the engine/motor.**

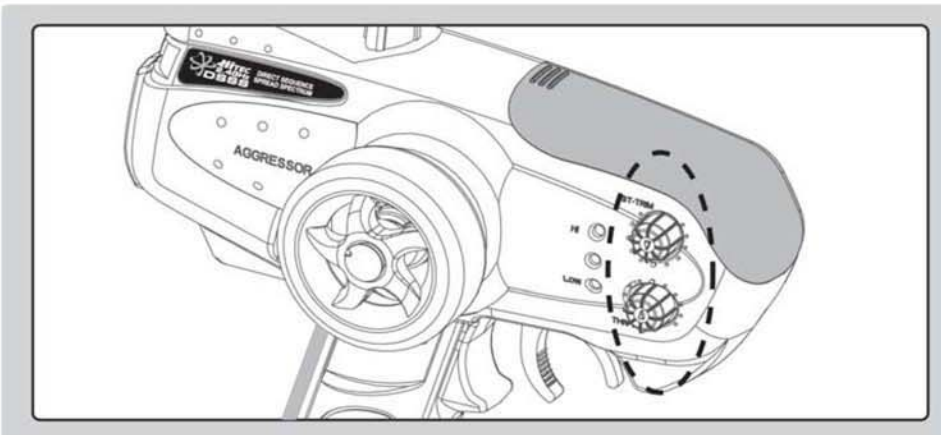
4. Functions and Operations

A. Instant Adjustment Functions

i. Trim Adjustment Dial

Trims can give you a fast access of servo adjustment during the racing.

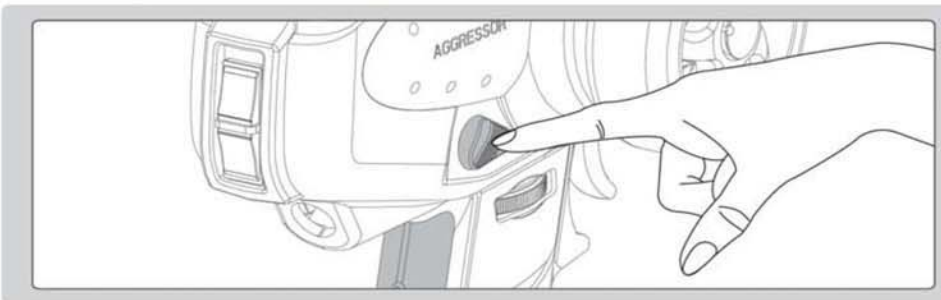
Note: Please make sure your servo is in neutron position before you hook up with the servo arm.



ii. Third Channel Button

Use Third Channel Button to perform Shift function.

Shift function can be found very useful for a vehicle equipped with gearbox (forward / reverse, Low / High), which widely available with rock crawlers or monster trucks.



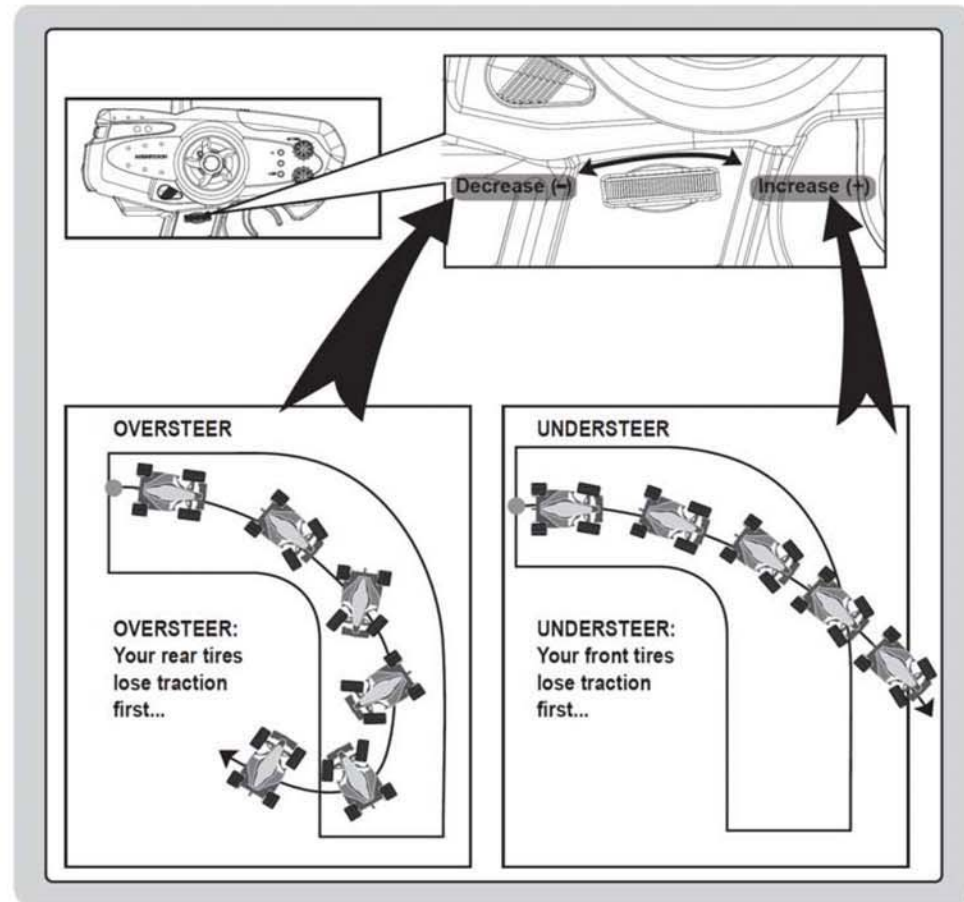
iii. D/R (Dual Rate) Adjustment Dial

By using the dual rate adjustment dial, you can instantly increase or decrease your vehicle's overall steering travel rate.

- When you want to increase the servo travel rate turn the dial forward.

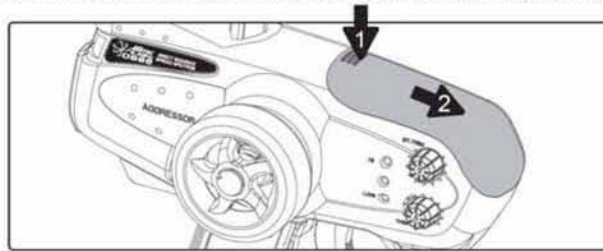
- When you want to decrease the servo travel rate, turn the dial backward.

Use D/R (Dual Rate) control knob to stabilize model when it over-steers or under-steers during a corner-work.

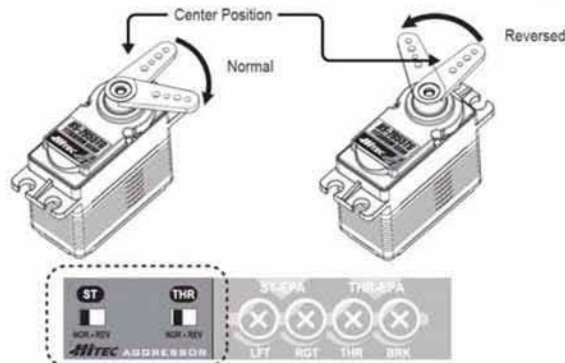


iv. Servo Reversing

Use this function to switch the rotation of servo for variety installation location of a servo.
Please note that, some other brand servos have different signal pulse than Hitec signal pulse.



1. Push & slide to open the top cover of 3DS. the switches are located under the cover.
2. Choose the servo you need to reverse, "ST" for Steering, "THR" for Throttle channel.
3. Once the proper channel is selected, adjust the switch either NOR or REV to adjust the servo's rotation .



v. End Point Adjustment

EPA(End Point Adjustment) function allows you to adjust an each(left/right) travel end point of a servo.
In many cases, this function can be found useful when each end(Left/right or forward/brake) has different end position.



Note: You have to adjust left and right separately; you must turn the wheel in the direction you wish to set.

Tip: Always max out the dual rate dial to 125% before setting your individual end positions for maximum travel. The best way to set the EPA is to turn and hold the steering wheel to the left end, then increase or decrease the EPA so the servo moves the car's wheels or the boat's rudder to their maximum travel without binding. Repeat for the right side.

5. Service & Support

Hitec Customer Service

Help is available from the Hitec office through phone support and e-mail inquiries. Our US office is generally open Monday thru Friday, 8:00AM to 4:30PM PST. These hours and days may vary by season. Every attempt is made to answer every incoming service call. Should you get voice mail, leave your name and number and a staff member will return your call.

Hitec Website

Make plans to visit the Hitec website, www.hitecrcd.com, on a regular basis. Not only is it full of specs and other information about the entire Hitec product line, our FAQ pages will eventually hold valuable information and program update about the Spectra 2.4DS module and Atom 3 receiver.

The On-Line Community

One of the benefits of the extensive R/C online community is the vast wealth of archived knowledge available. Hitec sponsors forums on most of the popular R/C web sites where a Hitec staff member or representative tries to answer all manner of product related questions. Bringing together strangers with common interests is proving to be one of the greatest gifts of the internet. If past history is any guide to the future, we are certain forums will be started about the Hitec 2.4 system and several are certain to stand out as valuable archives of information

Warranty and Non-Warranty Service

All Hitec products carry a two year from date of purchase warranty against manufactures defects. Our trained and professional service representative will determine if the item will be repaired or replaced. To provide all the necessary information we need to administrate your repair, visit our website at www.hitecrcd.com and download the repair form, fill it out and send in your item for repair.

FCC notice to users and product statements

THIS DEVICE COMPLIES WITH PART 15 OF THE FCC RULES. Operation is subject to the following two conditions; (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation. CAUTION: Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.



European CE notice to users and product statements

This product is CE marked according to the provisions of the R & TTE Directive (99/5/EC). Hereby, HITECRCD INC. declares that this product is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC. For further information, please contact <http://www.hitecrcd.com> or <http://www.hitecrcd.co.kr>

IC Warning

Operation of this device is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

This Device has been evaluated to comply with RF exposure requirement for general use limit in portable condition. It is safe to be used in sold condition.

Hitec Service

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1-858-748-6948

E-mail: service@hitecrcd.com

Product Approved to HITEC RCD, INC.

Manufacturer/Country: HITEC RCD, INC./The Philippines

Production Date:

