Introduction
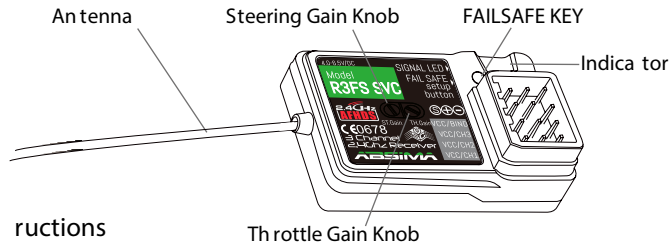
R3FS SVC is a gyro-embeded receiver which has 3 channels. In addition to the regular functions, it can also provide a smart vehicle control (S.V.C.) function, that makes sure the car travels in the expected direction on bumpy/slippery surfaces, or during cornering.

Receiver Overview

Antenna   Steering Gain Knob   FAILSAFE KEY

Indicator

Throttle Gain Knob

Operation Instructions

Binding

1. Turn on the transmitter, check the RF standard and if necessary, change it to (AFHDS) For detailed instructions, refer to the transmitter's manual.
2. Set the transmitter to bind mode. For detailed instructions, refer to the transmitter's manual.
3. Make sure the receiver is powered off.
4. Connect the bind cable to the BIND /VCC port on the receiver. Then connect the power to any other ports on the receiver. The red indicator will start to flash rapidly, indicating that the receiver is in bind mode.
5. Press and hold the BIND button on the transmitter and switch it on. Then the LED is blinking slowly. BIND process was successful.
6. Disconnect the bind cable and power from the receiver. Then connect the power to the BIND/ VCC port.
7. Check if all the servos work as expected. If anything does not work as expected, restart this procedure from the beginning.

S.V.C. Function

This function has two uses, the first, is to keep the model moving in a straight line by correcting the steering, when going over bumps or slippery surfaces. The second, is to reduce throttle during cornering in order to prevent the model from spinning out and to increase the speed coming out of a turn.

Activating/Deactivating S.V.C. Function

1. Disconnect the power from the receiver.
2. Connect the bind cable to the CH3 port on the receiver.
3. Hold the FAILSAFE KEY and then connect the power to the BIND/VCC port. Then the red indicator flashes in a pattern of two flashes, indicating the function is active.

Note:

If the S.V.C. function is active, the receiver has a 2 second startup time, during which the receiver must be placed on a level surface.

Reverse Function

After installing the receiver, rotate the car to check if the wheels turn to the correct direction. If you rotate the car to the left, the wheels shall turn right, and if you rotate the car to the right, the wheels shall turn left. If the wheels does not respond properly, follow the steps below to reverse the direction:

1. Disconnect the power from the receiver.
2. Connect the bind cable to the CH3 port on the receiver.
3. Connect the power cable to the BIND/ VCC port. Then the red indicator flashes in a pattern of two flashes and a pause, indicating the direction has been reversed.
4. Check the wheels again and make sure they move as expected.

Steering Gain

Steering gain is how much the system will automaticly correct the steering to bring the vehicle back to its original course. Adjust the value via the Steering Gain Knob located on the transmitter. The amount of correction available to the system ranges from 0 - 100 percent.

Throttle Gain

Throttle gain changes how much the throttle is reduced during cornering, acting much like traction control in a full sized car. Once the car begins to drive, the throttle instantly adjusts to prevent spinout, which means less wheel spin on slippery surfaces and faster acceleration out of corners.

Attention: If the SVC function is on channel 1 and channel 2 activated then the channel 3 have no function.

Failsafe Function

1. Make sure the transmitter and receiver has been bound, and are working properly.
2. Adjust the throttle trigger and steering wheel to the failsafe position and then hold the FAILSAFE KEY.

   The red indicator flashes in a pattern of five flashes and a pause, indicating the setting is finished.

After setting the failsafe position, if the receiver loses signal, the car will continue moving in the set failsafe position.

Specification

Channels	3
Frequency Range	2.4055 to 2.475GHZ
Frequency Band	140
RF Power	Lower than 20dBm
2.4GHz System	ASHDS
Model Type	Car/boat
Code Type	GFSK
Power Input	4.0 to 6.5V DC
Antenna Length	26 mm