

# R204GF-E

**S-FHSS/FHSS-2.4GHz system (Auto Detection), For EP Car models Built-in antenna 4-channel receiver**



**⚠ WARNING**

⊘ **NEVER** use dry batteries for the power supply of the R204GF-E as they may cause difficulties.

⊘ **NEVER** use the R204GF-E in GP cars.

Thank you for purchasing the R204GF-E receiver.

The R204GF-E is designed for use with the Futaba S-FHSS or FHSS system transmitter. The S-FHSS system has two(2) operation mode as shown below.

**•Normal mode/High Speed mode**

The "Normal mode" accepts any type of servos or the peripherals as the frame rate of the output is 13.6ms. The "High Speed mode" only accepts the digital servos, including BLS series, and most peripheral equipments such as the brushless ESCs. The frame rate of the outputs is 6.8ms. However, there is a transmitter that cannot correspond, to high speed mode.

Please pay special attention to the information contained within this manual and transmitter's manual in order to have a pleasant running experience.

**•Built-in antenna**

The R204GF-E receiver is designed to be used only for EP Car models. Due to the special design of the R204GF-E, we cannot recommend its use in other types of models (gas powered models.)

**•The R204GF-E is compatible with the S-FHSS or FHSS system transmitters.**

## Link Procedure

Each transmitter has an individually assigned, unique ID code. In order to start operation, the receiver must be linked with the ID code of the transmitter with which it is being paired. Once the link is made, the ID code is stored in the receiver and no further linking is necessary unless the receiver is to be used with another transmitter.

- 1** Place the transmitter and the receiver close to each other within half (0.5) meter
- 2** Turn on the transmitter and the receiver.
- 3** Push and hold the Link switch on the receiver.
- 4** When the link is complete, the LED on the receiver changes to solid green.

\* Please refer to the table below for LED status and receiver condition.

No signal reception	LED: Off
Receiving signals	LED: On
Receiving signals, but ID is unmatched.	LED: Blink
Power On, when F/S sets it.	LED: Early Blink the first one second

\* If there are many S-FHSS/FHSS systems turned on around your receiver, it might not link to your transmitter. In this case, even if the receiver's LED stays solid green, unfortunately the receiver might have established a link to one of the other transmitters. This is very dangerous if you do not notice this situation. In order to avoid the problem, we strongly recommend you to double-check whether your receiver is controlled by your transmitter by giving throttle input, etc. and then checking servo response.

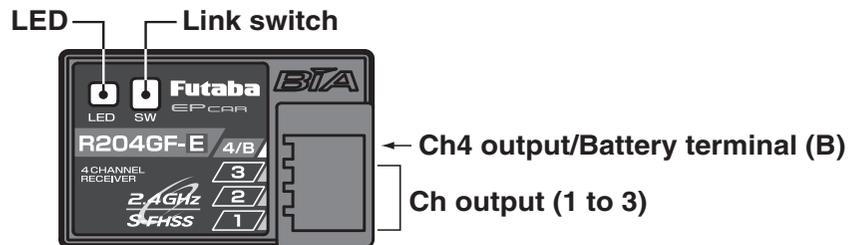
**⚠ WARNING**

⚠ After the linking is done, please cycle receiver power and check if the receiver to be linked is really under the control by the transmitter to be linked.

⊘ Do not perform the linking procedure with motor's main wire connected or with the engine operating as it may result in serious injury.

**Note: The R204GF-E is compatible with the S-FHSS or FHSS system transmitters .**

**\*Futaba S-FHSS/FHSS system does not work with current Futaba FASST system.**



## R204GF-E Specifications:

(S-FHSS/FHSS system, 4-channel receiver)

- Receiving on 2.4GHz band
- System: S-FHSS/FHSS system (auto detection)
  - At S-FHSS Normal/High speed mode (auto detection)
- Receiving Range : 70m (230ft.)(at the best conditions)
- Operating voltage(Typ.): 4.8V-7.4V(shared with servo)
- F/S and Battery F/S function: The operation channels differ according to the transmitter used. However, Battery F/S doesn't function when it is used with FHSS and F/S becomes only CH2.
- Battery F/S voltage: 3.8V
- Current drain: 30mA (at no signal)
- Size: 1.38x0.91x0.35" (35.1x23.2x9mm)
- Weight: 0.21oz. (6g)

**\*The Battery F/S voltage is set for 4-cell NiCd/NiMH battery. Battery F/S function doesn't work properly when other type battery is used.**

## Usage condition on "High Speed mode"

**⚠ CAUTION**

⚠ When using the high-speed mode, use a Futaba digital servo (including brushless servo). Analog servos cannot be used.

• The use of analog servos may cause servo trouble.

## Operating Precautions:

Once the R204GF-E detects the S-FHSS normal mode, S-FHSS high speed mode or FHSS mode, the detected mode is locked as long as the power is ON. When need to change the mode, please cycle power.

## Compliance Information Statement (for U.S.A.)

This device, trade name Futaba Corporation of America, model number R204GF-E, complies with part15 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.

The responsible party of this device compliance is:

Futaba Service Center  
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