

# HPI 2.4GHz Digital Proportional Radio System Instruction manual

## ●INTRODUCTION

- Automatically in search of the empty band of 2.4G, a transmitter sets up a band. Therefore, the conventional crystal change is unnecessary.
- A transmitter has original different ID. Therefore, a receiver malfunctions with neither other same transmitters nor the transmitter of other 2.4G.
- Since high-speed digitization of all the dynamic-control signals is carried out, when a wave is lost, the fail-safe-system function operates and a car stops safely. Also when the Battery capacity of a receiver is lost, the fail-safe-system function operates.

## ●SPEC

Transmitter (TF-20、TF-21)

- Frequency band : 2.4GHz
- Wave system : DSSS
- Band separation : 1MHz
- Transmission speed : 16Kbps
- Control Channel : 2CH
- Battery : 9V (UM-3 × 6)
- Operating temperature limits : 0~40°C
- Consumption electric current : 100mA / 9V
- Dimension : 240 mm × 150 mm × 80 mm
- Weight : 304g (With no Battery)

Receiver (RF-30、RC-1)

- Frequency band : 2.4GHz
- Receiving sensitivity : -95dBm
- Battery : RF-30 6V 5cell  
RC-1 4.8V 4cell
- Operating temperature limits : 0~40°C

## ●FCC Information

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

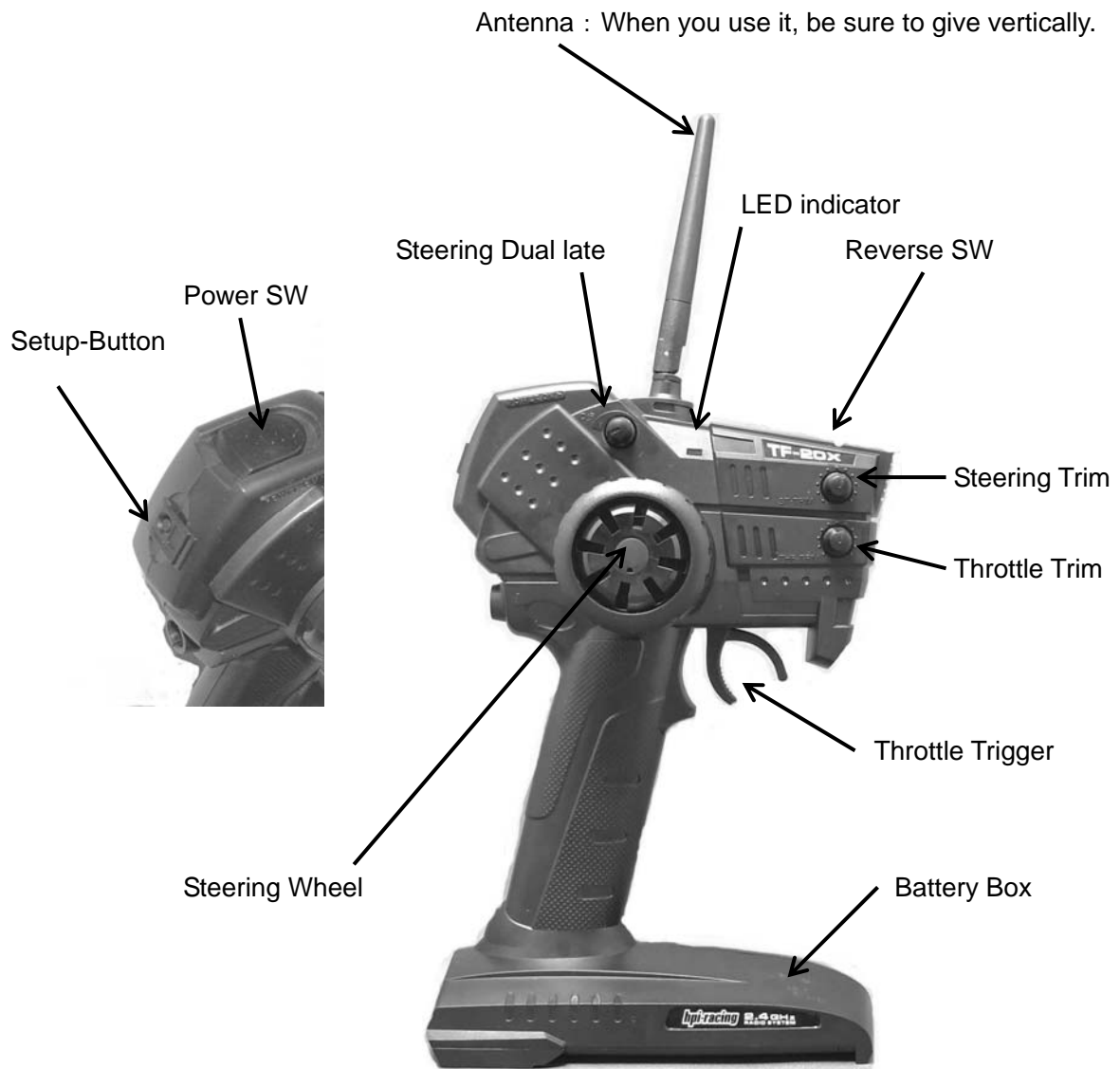
2-this device must accept any interference received,

Including interference that may cause undesired operation.

The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

To comply with the FCC RF exposure compliance requirements, this device and its antenna must not be co-located or operating to conjunction with any other antenna or transmitter.'

● **Transmitter explanation**



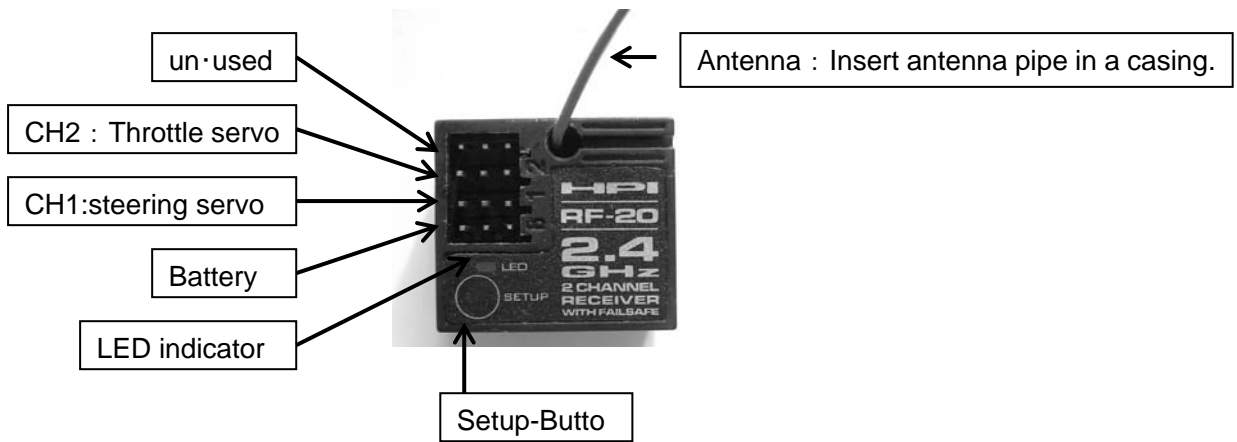
Please put in without making a mistake in the direction of a Battery.

If a battery voltage decreases, LED will blink. If it blinks, please exchange for a new article Battery.

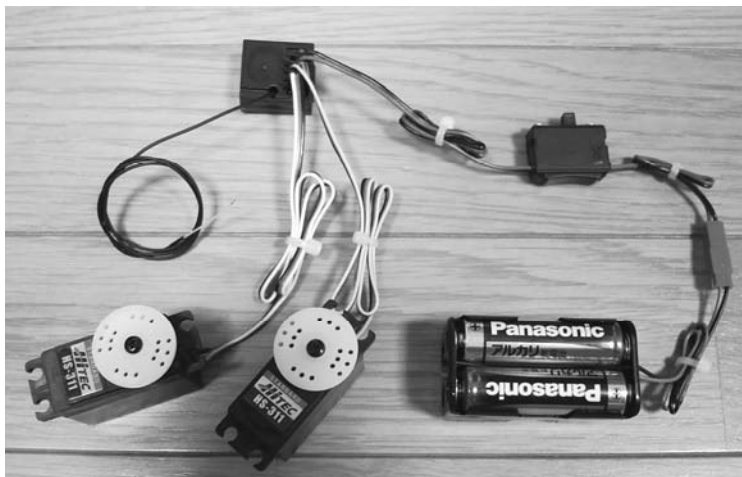


●Receiver explanation

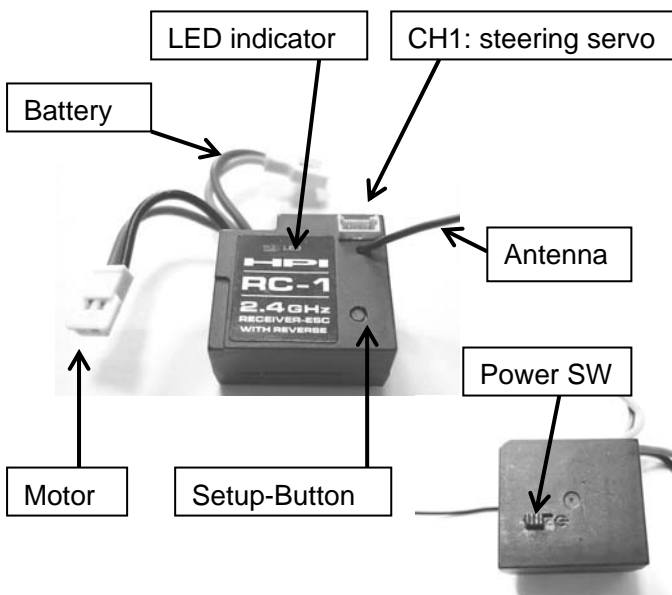
★RF-30



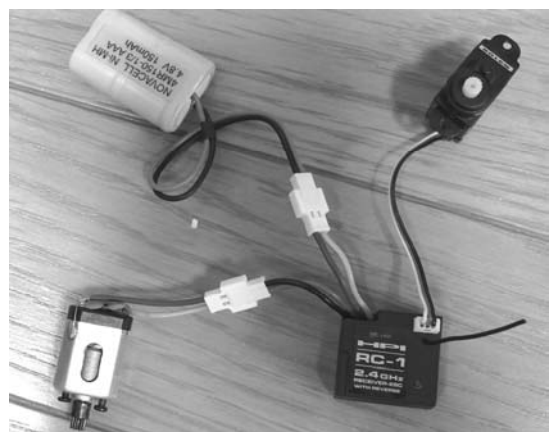
The example of a connecting



★RC-1



The example of a connecting



## ★USAGE PRECAUTIONS

- Don't use it except a genuine product.
- A unstring and a modify are prohibition.
- From a body, please detach a transmitter 20cm or more and hold it.
- NEVER grip the antenna when using as this degrades RF quality and cause loss of control.
- Never don't cut a receiver antenna wire.
- The wave of 2.4G is intercepted with a metal or carbon.
- Please be sure to separate the antenna (leading end) of a receiver from a metal or carbon.

### ●The step of a binding

The transmitter has individual ID. When using a new receiver, You make this ID register into a receiver. This operation should work at a location without other 2.4G waves. Please put a transmitter and a receiver on less than 1m.

1 : Turn ON a transmitter, continuing pushing a setup button.

Next, detach a setup button.

2 : LED of a transmitter will blink.

3 : Turn on a receiver, continuing pushing the setup button of a receiver.

Next, detach a setup button.

4 : If a receiver carries out an insertion success of ID of a transmitter, you can operate a servo with a transmitter.

5 : Please do not run a car then.

When you use it, once you turn OFF power Sw of a transmitter and a receiver, Please turn ON.

### ●The set way of a fail-safe system (only RF-30)

If the wave of a transmitter is normally unreceivable, the file safe will operate, And the servo operates in the position set up beforehand. Please perform, when you change this servo place.

1 : You maintenance fixing in the position which wishes the wheel and trigger of a transmitter after No. 4 of "The step of a binding" section.

2 : And please continue pushing the setup button of a receiver for several seconds.

3 : Then, a few carries out a time lighting and LED completes a file safe insertion.