

GWS R4P;R6N RECEIVERS

Thank you for choosing a GWS R/C receiver. GWS receivers have been designed and developed using the latest manufacturing technologies and incorporate the finest modern precision electronic components. GWS receivers are compatible with FM transmitters from Futaba, JR, Sanwa/Airtronics and Hi-tec.

Please read these instructions carefully in order to obtain safe operation and maximum performance from your GWS receiver.

SPECIFICATIONS

	PICO	NARO
Model Type	R-4P R4P/H R4P/T	R6N R6N/H
Modulation	FM (PPM)	FM (PPM)
Channel	4	6
Sensitivity	5 μ V	5 μ V
Operating power	3.6~7.2V	3.6~7.2V
Current Drain	5mA	7mA
Size	H/15.0x25.0x8.6 15.0x25.0x9.5 0.59"x1"x0.37" 0.59"x1"x0.34"	H/20.0x30.0x8.6 20.0x30.0x9.5 0.79"x1.18"x0.37" 0.79"x1.18"x0.34"
Weight	3.6~4.8g 0.13~0.17oz	7.6~8.2g 0.27~0.29oz

RECEIVER AND SERVO CONNECTIONS (AIRCRAFT)

TX	Futaba	JR SANWA (Airtronics)
RX	Hi-tec	
6/B	Aux. 1/Battery	Aux. 1/Battery
5	Landing Gear	Landing Gear
4/B	Rudder/Battery	Rudder/Battery
3	Throttle	Elevator
2	Elevator	Aileron
1	Aileron	Throttle

(TX=Transmitter / RX=Receiver)

PRECAUTIONS

1. Check that your transmitter and receiver are operating on the same frequency.
2. Check the polarity and integrity of connections when plugging servo connectors into your receiver.
3. Always carry out a range check prior to flight.
4. In order to safely and properly operate your R/C equipment, please read thoroughly All manufacturer's manuals and instructions.
5. Always turn the transmitter on first, then the receiver. When you turn the system off, always turn the receiver off first then transmitter.

INSTALLATION AND OPERATION

1. **CRYSTAL:** PICO and NARO receivers, you need to choose a micro FM crystal (UM-1) available only from GWS.
2. **RX INSTALLATION:** To protect the receiver we strongly recommend you wrap it in vibration absorbing foam rubber. When installing your receiver in boats or environments unfriendly to precision electronic equipment; ensure that your receiver is adequately protected from moisture/liquids. Install your receiver in your model and fix it securely.
3. For 72MHZ, you must select Futaba/Hi-tec for negative shift ("F" sticker on the receiver) or JR/Airtronics for positive shift ("J" sticker on the receiver), other wise it will be not operate.
4. **RECEIVER ANTENNA:** Do not alter the length of antenna (50cm/19in) or coil it as range will be reduced. Always carry out a range check prior to flight. Always ensure the receiver antenna is positioned securely and safely in your model.
5. **RX ADAPTER:** If you need to use 4chchannel (PICO), 6chchannel (NARO 6-ch), please purchase separately a GWS RX ADAPTER that allows you to connect a battery pack and one servo to a GWS receiver.
6. **CONNECTION:** Connection example and polarity of the receivers are shown below. Check the polarity and integrity of connections when plugging servo connectors into your receiver.

TOP VIEW R6N



SIDE VIEW R6N/H



TOP VIEW R4P/JST



TOP VIEW R4P



⊕ Signal-White/Orange

⊕ Positive-Red

⊖ Negative-Black/Brown

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