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> Havcybin GA-4H-TX 2.4GHz 4-Channel RC Transmitter and Receiver User Manual

havcybin GA-4H-TX

Havcybin GA-4H-TX 2.4GHz 4-Channel RC Transmitter and Receiver User Manual

Model: GA-4H-TX | Brand: Havcybin

INTRODUCTION

This manual provides detailed instructions for the Havcybin GA-4H-TX 2.4GHz 4-channel RC remote control system. This system is designed for precise control of various remote-controlled vehicles, including RC cars, boats, and tanks. Please read this manual thoroughly before operating your device to ensure proper setup and safe use.

KEY FEATURES

- **2.4GHz FHSS Technology:** Utilizes 67 channels frequency-hopping spread spectrum for high resistance to interference.
- **Fast Response:** Receiver response time of 2ms ensures quick and precise control.
- **Extended Control Distance:** Stable operation up to 200-300 meters.
- **Versatile Compatibility:** Suitable for RC cars, boats, and tanks.
- **Safety Functions:** Includes brake and fail-safe (out-of-control protection) features.
- **Configurable Channels:** Each of the 4 channels can be set individually, supporting mixed control for channels 1 and 2.
- **Voltage Warning:** Transmitter operates on 4.8V-6V with a low voltage warning at 4.5V. Receiver operates on 3.3V-6V and supports high voltage servos.



Figure 1: Havcybin GA-4H-TX Transmitter highlighting key features and compatible RC vehicle types (car, boat, tank).

PACKAGE CONTENTS

The Havcybin GA-4H-TX package includes the following items:

- 1x GA-4H-TX Transmitter
- 1x 4-Channel Receiver
- 1x User Manual

Note: Batteries are not included and must be purchased separately.

PRODUCT OVERVIEW

Familiarize yourself with the components of your GA-4H-TX transmitter:



Figure 2: Detailed view of the GA-4H-TX Transmitter with numbered components.

1. **Steering Wheel:** Controls left/right direction.
2. **Throttle Trigger:** Controls forward/reverse movement and braking. Pull forward for acceleration, push back for reverse/brake.
3. **Handle:** Ergonomic grip for holding the transmitter.
4. **Antenna:** Transmits signals to the receiver in the vehicle.
5. **Power Switch:** Turns the transmitter on/off.
6. **CH3 Switch:** Channel 3 control switch.
7. **Function Parameter Adjustment Knob:** Adjusts various settings.
8. **Battery Compartment:** Holds [4] AAA batteries.
9. **Multifunction Red Indicator:** Status indicator light.
10. **Data Volume +:** Increases data volume.
11. **Data Volume -:** Decreases data volume.

SETUP INSTRUCTIONS

1. Battery Installation

The transmitter requires four (4) AAA batteries. To install:

1. Locate the battery compartment on the bottom of the transmitter (refer to Figure 2, item 8).
2. Open the battery compartment cover.
3. Insert four AAA batteries, ensuring correct polarity (+/-).
4. Close the battery compartment cover securely.



Figure 3: Transmitter bottom view, showing the battery compartment and the included receiver.

2. Receiver Connection

Connect the receiver to your RC vehicle's electronic speed controller (ESC) and servos. Ensure all connections are correct before powering on.

3. Transmitter and Receiver Pairing (Binding)

The transmitter and receiver must be paired (bound) for communication. This process is typically only required when installing a new transmitter or receiver, or if the connection is lost.

Transmitter and receiver pairing

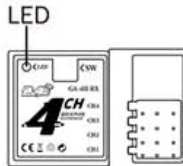
1. Power on the receiver. Press the SW key. The receiver's LED will flash quickly.



2. Turn on the transmitter



3. When the LED light on the receiver turns from flashing to steady on, it means that the signal between the transmitter and the receiver is connected.



Note: The radio system installation program has been bound. The above process is only necessary when installing a new transmitter or receiver.

Receiver runaway protection settings

Set the out-of-control protection:

In the connected state, long press the code key for 3 seconds, the LED flashes quickly,,, within 5 seconds, rotate the throttle trigger to set the TH position, and keep waiting for the LED to stop flashing.

Clear out of control protection:

Press and hold the code key to power on for 3 seconds to clear out of control protection



Figure 4: Step-by-step visual guide for pairing the transmitter and receiver.

1. **Power on the Receiver:** Connect the receiver to power (e.g., from the ESC). Press the "SW" (Switch) key on the receiver. The receiver's LED will flash quickly.
2. **Turn on the Transmitter:** With the receiver's LED flashing, turn on the power switch of the transmitter (Figure 2, item 5).
3. **Confirmation:** When the LED on the receiver changes from flashing to a steady on, it indicates that the signal between the transmitter and receiver is successfully connected and paired.

Important: If the remote does not work after initial setup, attempt the binding process again.

Bing the TX and the RX

if the remote can't work , pls try to bing the remote and the receiver first.



Figure 5: Practical illustration of binding the transmitter (TX) and receiver (RX).

OPERATING INSTRUCTIONS

Basic Control

- **Steering:** Use the steering wheel (Figure 2, item 1) to control the left and right direction of your vehicle.
- **Throttle:** Use the throttle trigger (Figure 2, item 2) for speed control. Pull the trigger towards you for forward motion, and push it away from you for reverse or braking.

Receiver Runaway Protection (Fail-Safe) Settings

The runaway protection function ensures your vehicle stops or returns to a safe state if the signal is lost.

Transmitter and receiver pairing

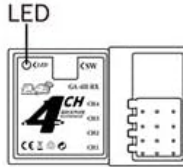
1. Power on the receiver. Press the SW key. The receiver's LED will flash quickly.



2. Turn on the transmitter



3. When the LED light on the receiver turns from flashing to steady on, it means that the signal between the transmitter and the receiver is connected.



Note: The radio system installation program has been bound. The above process is only necessary when installing a new transmitter or receiver.

Receiver runaway protection settings

Set the out-of-control protection:

In the connected state, long press the code key for 3 seconds, the LED flashes quickly,,, within 5 seconds, rotate the throttle trigger to set the TH position, and keep waiting for the LED to stop flashing.

Clear out of control protection:

Press and hold the code key to power on for 3 seconds to clear out of control protection



Figure 6: Visual guide for setting and clearing receiver runaway protection.

1. Setting Out-of-Control Protection:

- In a connected state (receiver LED steady on), press and hold the code key on the receiver for 3 seconds. The LED will flash quickly.
- Within 5 seconds, rotate the throttle trigger to your desired fail-safe position (e.g., neutral or brake).
- Wait for the LED to stop flashing, indicating the setting is saved.

2. Clearing Out-of-Control Protection:

- Press and hold the code key on the receiver for 3 seconds to clear the current fail-safe settings.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the transmitter and receiver. Avoid using solvents or harsh chemicals.

- **Storage:** Store the device in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries from the transmitter if storing for extended periods to prevent leakage.
- **Battery Care:** Always use fresh batteries. Replace all batteries at the same time. Do not mix old and new batteries or different types of batteries.

TROUBLESHOOTING

- **No Response from Vehicle:**
 - Ensure the transmitter is powered on and has fresh batteries.
 - Verify the receiver is correctly connected to the vehicle's power source and components.
 - Perform the pairing (binding) process again as described in the "Setup Instructions" section.
- **Short Control Range or Interference:**
 - Check for obstructions between the transmitter and receiver.
 - Ensure the transmitter antenna is not damaged or obstructed.
 - Avoid operating near other 2.4GHz devices or strong electromagnetic interference sources.
- **Receiver LED Not Lighting Up:**
 - Confirm the receiver is receiving power from the vehicle's ESC or battery.
 - Check all wiring connections to the receiver.

SPECIFICATIONS

Feature	Specification
Channels	4
Mode Type	RC Car, Boat, Tank
RF Power	Less than 20dbm
Response Time	10ms-12ms
Control Distance	200-300m
Transmitter Voltage Input	4.8V-6V (4x AAA batteries)
Transmitter Low Voltage Warning	4.5V
Transmitter Net Weight	260g
Transmitter Dimensions	180 x 80 x 145mm (7.09 x 3.15 x 5.71 inches)
Receiver Frequency	2.4GHz
Receiver Voltage Range	3.3V-6V
Receiver Working Current	30mA
Receiver Dimensions	16 x 18 x 12mm



Figure 7: Dimensions of the GA-4H-TX Transmitter.

WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided with your purchase or contact the retailer. Specific warranty terms may vary by region and seller.