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› HPI Racing TF-40/RF-40 2.4GHz Radio Set User Manual

Hpi Racing H105385

HPI Racing TF-40/RF-40 2.4GHz Radio Set User Manual

Model: H105385

INTRODUCTION

This user manual provides essential information for the proper setup, operation, and maintenance of your HPI Racing TF-40/RF-40 2.4GHz Radio Set. Please read this manual thoroughly before using the product to ensure safe and efficient operation and to prevent damage.

The HPI Racing TF-40/RF-40 2.4GHz Radio Set is designed for reliable control of remote-controlled vehicles, offering advanced 2.4GHz technology for interference-free performance.

SAFETY INFORMATION

Always prioritize safety when operating remote-controlled equipment. Failure to follow these guidelines may result in injury or damage to property.

- Keep the radio set away from water and moisture.
- Do not operate the radio set in adverse weather conditions.
- Ensure batteries are correctly installed with the correct polarity.
- Do not mix old and new batteries, or different types of batteries.
- Store the radio set in a cool, dry place when not in use.
- This product is recommended for users aged 14 years and up.

PACKAGE CONTENTS

Verify that all components are present in your package:

- HPI Racing TF-40 2.4GHz Transmitter
- HPI Racing RF-40 2.4GHz Receiver
- Instruction Manual (this document)

PRODUCT OVERVIEW

The HPI Racing TF-40/RF-40 2.4GHz Radio Set consists of a pistol-grip transmitter and a compact receiver, designed for precise control.



Figure 1: HPI Racing TF-40 2.4GHz Transmitter (left) and RF-40 2.4GHz Receiver (right). The transmitter features a steering wheel, throttle trigger, and various adjustment dials. The receiver is a small, rectangular unit with multiple ports for servo and power connections.

Transmitter (TF-40) Key Features:

- **Steering Wheel:** Controls the steering of the vehicle.
- **Throttle Trigger:** Controls forward/reverse movement and braking.
- **Steering Trim (ST.TRIM):** Adjusts the neutral position of the steering servo.
- **Throttle Trim (TH.TRIM):** Adjusts the neutral position of the throttle servo.
- **Steering Dual Rate (ST.D/R):** Adjusts the maximum steering angle.
- **Servo End Point Adjustments (L-ST-R, L-TH-H):** Fine-tunes the maximum travel for steering and throttle servos.
- **Bind Button:** Used for pairing the transmitter and receiver.
- **Power LED:** Indicates power status.
- **Battery Compartment:** Holds the required batteries for the transmitter.

Receiver (RF-40) Key Features:

- **Antenna:** Receives signals from the transmitter.
- **Channel Ports:** Connects to steering servo, throttle servo, and power source (e.g., ESC or battery pack).
- **Bind Port:** Used during the binding process.

SETUP

1. Battery Installation (Transmitter)

1. Open the battery compartment cover on the bottom of the TF-40 transmitter.
2. Insert the required batteries (typically AA batteries, not included) according to the polarity markings inside the compartment.
3. Close the battery compartment cover securely.

2. Receiver Installation and Connection

1. Mount the RF-40 receiver securely in your vehicle, away from electrical interference sources like motors or ESCs.
2. Connect the steering servo to the CH1 port on the receiver.
3. Connect the Electronic Speed Controller (ESC) or throttle servo to the CH2 port on the receiver. Ensure the ESC's power lead is connected correctly to provide power to the receiver.
4. Extend the receiver antenna fully and secure it in a position that avoids contact with moving parts or metal.

3. Binding the Transmitter and Receiver

Binding is the process of linking the transmitter and receiver so they communicate exclusively with each other.

1. Ensure both the transmitter and receiver are powered off.
2. Insert a bind plug (if supplied with your vehicle's ESC or receiver) into the BIND port on the RF-40 receiver.
3. Power on the vehicle's ESC, which will power the receiver. The receiver's LED should flash rapidly, indicating it's in bind mode.
4. While holding down the BIND button on the TF-40 transmitter, power on the transmitter.
5. The transmitter's power LED should flash, and then become solid. The receiver's LED should also become solid, indicating successful binding.
6. Release the BIND button on the transmitter.
7. Power off both the transmitter and receiver.
8. Remove the bind plug from the receiver.
9. Power on the transmitter first, then the receiver/ESC. Test the controls to confirm successful binding.

OPERATING INSTRUCTIONS

1. Powering On/Off

- **To Power On:** Always turn on the transmitter first, then the vehicle's receiver/ESC.
- **To Power Off:** Always turn off the vehicle's receiver/ESC first, then the transmitter.

2. Basic Control

- **Steering:** Rotate the steering wheel left or right to control the vehicle's direction.

- **Throttle:** Pull the throttle trigger towards you for forward movement. Push the trigger away from you for braking and reverse.

3. Adjustments

- **Steering Trim (ST.TRIM):** If the vehicle pulls to one side when the steering wheel is centered, adjust this dial until the vehicle tracks straight.
- **Throttle Trim (TH.TRIM):** If the vehicle moves slightly forward or backward when the throttle trigger is at neutral, adjust this dial until the vehicle remains stationary.
- **Steering Dual Rate (ST.D/R):** Adjust this dial to increase or decrease the maximum steering angle. Lowering the D/R can make the vehicle less sensitive to steering inputs, useful for high-speed driving.
- **Servo End Point Adjustments (L-ST-R, L-TH-H):** These dials allow precise adjustment of the maximum travel for your steering and throttle servos. Adjust them to prevent servos from binding or over-traveling, which can cause damage.

MAINTENANCE

- Keep the transmitter and receiver clean and free of dust and debris. Use a soft, dry cloth.
- Avoid exposing the radio set to extreme temperatures or direct sunlight for prolonged periods.
- Remove batteries from the transmitter if it will not be used for an extended period to prevent leakage.
- Regularly check all connections for looseness or corrosion.

TROUBLESHOOTING

Problem	Possible Cause	Solution
No power to transmitter	Dead or incorrectly installed batteries	Replace batteries or check polarity.
No control over vehicle	Not bound, receiver not powered, loose connections	Perform binding procedure. Check receiver power and all connections.
Erratic control or interference	Other 2.4GHz devices nearby, damaged antenna, low battery	Move to a different location. Check antenna. Replace batteries.
Vehicle pulls to one side	Steering trim incorrect	Adjust Steering Trim (ST.TRIM) dial.

SPECIFICATIONS

- **Model Number:** H105385
- **Frequency:** 2.4GHz
- **Transmitter:** HPI Racing TF-40
- **Receiver:** HPI Racing RF-40
- **Dimensions (Product):** Approximately 13.7 x 13.7 x 13.7 cm (5.4 x 5.4 x 5.4 inches)
- **Weight (Product):** Approximately 60 g (0.13 lbs)
- **Recommended Age:** 14 years and up

- **Assembly Required:** No
- **Batteries Required:** Yes (for transmitter, not included)

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official HPI Racing website or contact their customer service directly. Keep your proof of purchase for any warranty claims.

Manufacturer: HPI RACING

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