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> Hitec RCD HFP-30 Digital Servo Programmer & Tester User Manual

## Hitec RCD HRC44427

# Hitec RCD HFP-30 Digital Servo Programmer & Tester

Model: HRC44427

## 1. INTRODUCTION

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The Hitec HFP-30 Field Programmer is an advanced digital servo testing and programming device designed for hobbyists and professionals. It features a large, easy-to-read LCD screen and is capable of efficiently programming all Hitec digital servos, including the HS-5xxx, HS-7xxx, brushless HSB-9xxx, and the latest D-Series. This versatile tool operates within a wide voltage range of 4.8V to 8.4V, making it an essential accessory for managing and optimizing your digital servos.

## 2. SAFETY INFORMATION

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Please read and understand all safety instructions before operating the HFP-30. Failure to do so may result in damage to the device, connected components, or personal injury.

- Do not expose the device to moisture or extreme temperatures.
- Ensure correct polarity when connecting power sources and servos.
- Use only recommended voltage ranges (4.8V - 8.4V). Exceeding this range can damage the unit and connected servos.
- Keep the device away from children.
- Disconnect power before cleaning or performing any maintenance.

## 3. PRODUCT OVERVIEW

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The HFP-30 features an intuitive layout with a clear LCD display and tactile controls for easy navigation and operation.



Figure 3.1: Front view of the Hitec HFP-30 Digital Servo Programmer & Tester. The device is black with a large LCD screen, and various buttons and knobs on the right side. Ports for battery/receiver and USB are visible on the left side.



Figure 3.2: Close-up view of the control panel on the Hitec HFP-30. Visible controls include a rotary knob labeled "ADJUST/SET", a button labeled "BACK", another rotary knob labeled "PULSE", and a switch to toggle between "TEST" and "PROG" modes. Two servo ports are also visible.

### Controls and Indicators:

- **LCD Screen:** Displays menu options, servo parameters, and test results.
- **ADJUST/SET Knob:** Used for navigating menus and adjusting parameter values. Press to confirm selections.
- **BACK Button:** Returns to the previous menu or cancels an operation.
- **PULSE Knob:** Adjusts the pulse width during servo testing.
- **TEST/PROG Switch:** Toggles between Servo Test mode and Servo Programming mode.
- **SYNC Port:** For connecting servos for synchronization or specific programming tasks.
- **SERVO Port:** Main port for connecting servos for testing and programming.
- **BATT/RX Port:** Power input for the device (4.8V - 8.4V) or for connecting a receiver battery.
- **USB Port:** For firmware updates and potential PC connectivity (refer to Hitec's official website for software).

## 4. SETUP

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1. **Power Connection:** Connect a compatible power source (4.8V to 8.4V battery pack or receiver battery) to the BATT/RX port. Ensure correct polarity. The LCD screen should illuminate.
2. **Initial Boot:** The device will power on and display the main menu.
3. **Connecting a Servo:**
  - For testing, connect the servo to the SERVO port.
  - For programming, connect the servo to the SERVO port. Some advanced functions may utilize the SYNC port.

## 5. OPERATING INSTRUCTIONS

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### 5.1. Servo Test Mode

1. Set the TEST/PROG switch to the "TEST" position.
2. Connect the servo to be tested to the SERVO port.
3. Use the ADJUST/SET knob to select the desired test mode (e.g., manual, auto sweep, neutral position).
4. In manual mode, use the PULSE knob to adjust the servo's position. Observe the servo's movement and responsiveness.
5. The LCD screen will display relevant information such as pulse width and servo position.

### 5.2. Servo Programming Mode

1. Set the TEST/PROG switch to the "PROG" position.
2. Connect the Hitec digital servo to be programmed to the SERVO port.
3. Use the ADJUST/SET knob to navigate through the programming menus. Available parameters may include:
  - Endpoint Adjustment
  - Direction Reversal
  - Speed Setting
  - Fail-Safe Position
  - Soft Start
  - Overload Protection
  - Resolution (e.g., high, normal)
4. Select a parameter using the ADJUST/SET knob (press to enter).
5. Rotate the ADJUST/SET knob to modify the value.
6. Press the ADJUST/SET knob again to confirm and save the new setting.
7. Use the BACK button to exit menus or cancel changes before saving.

*Note: Specific programming options may vary depending on the connected Hitec digital servo model (HS-5xxx, HS-7xxx, HSB-9xxx, D-Series). Refer to your servo's individual manual for detailed programming capabilities.*

## 6. MAINTENANCE

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- **Cleaning:** Wipe the device with a soft, dry cloth. Do not use liquid cleaners or solvents.
- **Storage:** Store the HFP-30 in a cool, dry place, away from direct sunlight and extreme temperatures.
- **Firmware Updates:** Periodically check the official Hitec RCD website for firmware updates to ensure optimal

performance and compatibility with new servo models. Updates can typically be performed via the USB port.

## 7. TROUBLESHOOTING

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Problem	Possible Cause	Solution
Device does not power on.	No power, incorrect voltage, or reversed polarity.	Check power source connection. Ensure voltage is within 4.8V-8.4V. Verify correct polarity.
Servo not responding in Test Mode.	Servo not connected correctly, faulty servo, or incorrect test settings.	Ensure servo is securely connected to the SERVO port. Test with a known working servo. Verify test mode settings.
Cannot program servo.	Servo not compatible with HFP-30 programming, or incorrect mode.	Ensure the servo is a Hitec digital servo (HS-5xxx, HS-7xxx, HSB-9xxx, D-Series). Verify the TEST/PROG switch is in "PROG" mode.
LCD screen is blank or dim.	Low battery or power issue.	Recharge or replace the power source.

## 8. SPECIFICATIONS

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**Brand:** Hitec RCD

**Model Number:** HRC44427

**UPC:** 669962444279

**Power Source:** Battery Powered

**Operating Voltage:** 4.8V - 8.4V

**Item Weight:** 6.4 ounces (approx. 181 grams)

**Product Dimensions (L x W x H):** 3.75 x 6.25 x 1.75 inches (approx. 9.53 x 15.88 x 4.45 cm)

**Country Of Origin:** Philippines

## 9. WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please contact Hitec RCD directly through their official website or authorized distributors. Keep your proof of purchase for warranty claims.

**Official Website:** [www.hitecrd.com](http://www.hitecrd.com)

