Ehaho EH1FT2

Ehaho 2PCS 1FT Whip Lights User Manual

Model: EH1FT2

Brand: Ehaho

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Ehaho 2PCS 1FT Whip Lights. These LED whip lights are designed to enhance visibility and aesthetics for various off-road vehicles. Please read this manual thoroughly before installation and use to ensure proper function and safety.

2. WHAT'S IN THE BOX

Verify that all components are present before beginning installation.

- 2 x Spiral Whip Lights (1FT)
- 1 x RF Remote Control
- 1 x Flag Holder Set
- 2 x American Flags
- 2 x Off-Road Flags
- 2 x Skull Flags
- 1 x Instruction Manual (this document)
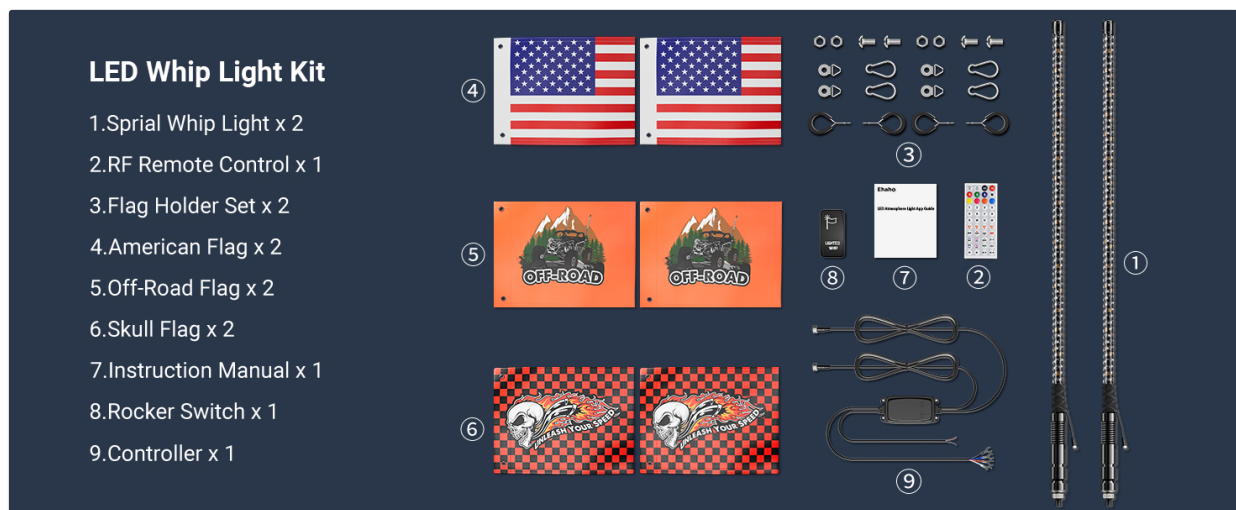- 1 x Rocker Switch
- 1 x Controller

Figure 2.1: Contents of the LED Whip Light Kit, including two spiral whip lights, remote control, flag holder set, various flags, rocker switch, and controller.

3. Features

- **Upgraded Brightness & Vibrant Colors:** 2nd-Gen design with 84pcs RGB LEDs and 5050 RGB LED chips for tripled brightness and 360° uniform light.
- **Dual Control & Programmable Effects:** Control via dedicated App or RF remote. Features 16 million colors and 366 customized patterns (stream, strobe, cascade, chase, pulse). Adjust brightness, speed, color width, and motion directions.
- **Integrated Spring Base:** Reinforced spring base for flexibility, buffering pressure, and reducing breakage risk. Aesthetically pleasing and easy to disassemble.
- **Durable & Waterproof:** Made of shockproof tube and bendable high-toughness resin. IP68 waterproof rating for off-road and extreme weather conditions.
- **Improved Battery Protection:** Includes a rocker switch to prevent vehicle battery drain when lights are in standby mode. Operates on 12V DC.
- **Turn Signal & Music Synchronization:** Features music sync function for lights to dance to phone music. Includes extra red stop/brake light, amber turn signal light, and white reverse/backup light for safety.
- **Wide Applications:** Suitable for UTV, ATV, 4 Wheeler, trucks, Go Kart, RZR, Can-am, Polaris, Dune Buggy, SXS, Sand Rail, motorcycle, and Boat.

4. Safety Information

- Ensure the vehicle's power supply is 12V DC. If exceeding 12V, use a voltage converter to prevent damage.
- Always disconnect the vehicle's battery before performing any electrical installation.
- Securely mount all components to prevent detachment during vehicle operation.
- Verify all wiring connections are correct and insulated to prevent short circuits.
- Do not stare directly into the LED lights for extended periods, as this may cause eye strain.
- Adhere to local regulations regarding vehicle lighting.

5. Setup and Installation

5.1. Quick Connect Base Assembly

The whip lights feature a quick-disconnect base for easy attachment and removal.

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Video 5.1: Demonstrates the quick connect and release base mechanism for the whip lights. The video shows how to securely attach

1. Attach the quick connect base to your vehicle's mounting point.

2. Align the whip light with the base and slide it down until it clicks securely into place.

3. To remove, slide the quick disconnect base "up" to release.

5.2. Wiring the Rocker Switch

The included rocker switch helps protect your vehicle's battery from draining. Refer to the diagram below for wiring instructions.

Figure 5.2: Wiring diagram for the rocker switch. Connect the negative of the lamp's controller and battery to pin 8, incoming power to pin 2, and the positive of the lamp's controller to pin 3. Lower light negative to pin 7 and lower light positive to pin 6.

- Connect the negative wire of the lamp's controller and battery to pin 8 (Upper Light Neg. (-) source).

- Connect the incoming power wire to pin 2 (Incoming from power).

- Connect the positive wire of the lamp's controller to pin 3 (Outgoing to relay, accessory or equipment).

- For the lower light, connect the negative to pin 7 and positive to pin 6.

- Ensure all connections are secure and properly insulated.

5.3. Turn Signal and Brake Light Wiring

The whip lights support turn signal, brake, and reverse light functions. Connect the corresponding wires to your

vehicle's existing wiring system.

- **Blue Line:** Connect to the vehicle's left turn signal wire.
- **Black Line:** Connect to the vehicle's right turn signal wire.
- **Red Line:** Connect to the vehicle's brake light wire.
- **White Line:** Connect to the vehicle's reverse/backup light wire.

Figure 5.3: Wiring connections for turn signals, brake, and reverse lights. Blue for left turn, black for right turn, red for brake, and white for reverse.

6. OPERATION

6.1. Remote Control Operation

The included RF remote control allows for easy adjustment of light settings.

Figure 6.1: Layout of the RF Remote Control, showing buttons for power, brightness, color selection, dynamic modes, speed adjustment, and music rhythm modes.

- **ON/OFF:** Power the lights on or off.
- **R/G/B/W:** Select Red, Green, Blue, or White static colors.
- **Color Buttons (Yellow, Red, Orange, Blue):** Select additional static colors.
- **Brightness Adjustment:** Increase or decrease light brightness.
- **Mode Buttons (1-12):** Select from 12 unique exclusive modes.
- **DIY Buttons (DIY1-DIY4):** Save your favorite custom modes. Long press to save.
- **AUTO:** Activates automatic play of various modes.

- **Speed Adjustment:** Increase or decrease the speed of dynamic modes.

- **Color Adjustment:** Adjust color settings within dynamic modes.

- **Music Rhythm Modes (1-4):** Synchronize lights with music.

- **SOS:** Activates an SOS emergency mode.

- **Timer (30 min, 60 min):** Set a timer for automatic shutdown.

6.2. App Control Operation

Download the dedicated Ehaho app from your smartphone's app store for advanced control and customization.

Figure 6.2: Example of the smartphone app interface for controlling the whip lights, offering a color wheel, preset modes, and music synchronization options.

- **Color Wheel:** Select from 16 million colors.

- **Custom Patterns:** Access 366 customized patterns.

- **Music Sync:** Lights dance to the rhythm of your phone's music.

- **Brightness/Speed:** Fine-tune brightness and animation speed.

- **DIY Modes:** Create and save your own unique lighting sequences.

7. MAINTENANCE

- **Cleaning:** Wipe the whip lights with a soft, damp cloth. Avoid abrasive cleaners or solvents.
- **Inspection:** Periodically check all wiring connections for tightness and signs of wear or damage.
- **Waterproofing:** The lights are IP68 waterproof, but ensure all connections are sealed properly after installation or maintenance.
- **Storage:** If removing the lights for extended periods, store them in a dry, cool place away from direct sunlight.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Lights do not turn on.	No power, loose connection, faulty switch/controller.	Check power source, ensure all wires are securely connected, test rocker switch and controller.
Lights flicker or dim.	Low voltage, poor connection, damaged wiring.	Verify 12V DC power, inspect connections for corrosion or looseness, check for damaged wires.
Remote control not working.	Dead battery in remote, remote out of range, interference.	Replace remote battery (CR2032), ensure line of sight to controller, reduce interference.
App control not connecting.	Bluetooth not enabled, app not paired, outdated app.	Ensure Bluetooth is on, pair the device in the app, update the app to the latest version.
Turn signals/brake lights not functioning correctly.	Incorrect wiring, faulty vehicle signal.	Double-check the specific wiring connections for turn signals, brake, and reverse lights. Test vehicle signals.

9. SPECIFICATIONS

- **Model:** EH1FT2
- **Light Source Length:** 1 Feet
- **Number of Pieces:** 2
- **LED Type:** 84pcs RGB LEDs with 5050 RGB LED chips
- **Color:** RGB (Multi-Color)
- **Control Methods:** APP Control, RF Remote Control
- **Special Features:** Customizable Flash Patterns, Customizable Music Modes, Dust Proof, Multi-Color, Integrated Spring Base, Battery Protect Rocker Switch, Turn Signal & Music Synchronization
- **Material:** Aluminum, Plastic, Rubber
- **Water Resistance Level:** IP68 Waterproof
- **Operating Voltage:** 12V DC
- **Item Dimensions (L x W x H):** 14 x 0.8 x 0.8 inches
- **Item Weight:** 3.34 pounds
- **Batteries:** 1 CR2032 battery required for remote (included)
- **Automotive Fit Type:** Universal Fit

10. WARRANTY AND SUPPORT

Ehaho products are manufactured to high-quality standards. For warranty information, technical support, or assistance with installation and troubleshooting, please refer to the contact information provided on the product packaging or visit the official Ehaho website. Keep your purchase receipt as proof of purchase for warranty claims.