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AHL RLC002

AHL RLC002 ABS Plastic Taillight Shell Instruction Manual

Model: RLC002 | Brand: AHL

1. INTRODUCTION

This manual provides essential information for the installation, operation, and maintenance of your AHL RLC002 ABS Plastic Taillight Shell. This product is specifically designed as a rear brake light and tail lamp replacement for Honda AX-1 motorcycle models. Please read these instructions carefully before proceeding with installation to ensure proper function and safety.



Figure 1.1: Front view of the AHL RLC002 ABS Plastic Taillight Shell. This image displays the overall design and transparent red plastic construction of the taillight shell.

2. SAFETY INFORMATION

- Always disconnect the motorcycle's battery before performing any electrical work to prevent electrical shock or damage.
- Professional installation is recommended for optimal safety and performance. If you are unsure about any step, consult a qualified motorcycle technician.
- Ensure all connections are secure and properly insulated to prevent short circuits.
- Verify that the taillight functions correctly (running light and brake light) before operating the motorcycle.
- This product is designed to be waterproof; however, avoid direct high-pressure water jets on the unit during cleaning.

3. PACKAGE CONTENTS

Verify that all items are present upon opening the package:

- 1x AHL RLC002 ABS Plastic Taillight Shell



Figure 3.1: Packaging box for the AHL RLC002 Taillight Shell. The box contains product information and warnings in multiple languages.

4. SETUP AND INSTALLATION

This section outlines the general steps for installing the taillight shell. Specific procedures may vary slightly depending on your motorcycle's configuration. Always refer to your motorcycle's service manual for detailed instructions.

1. **Preparation:** Park your motorcycle on a stable, level surface. Ensure the engine is off and cool. Disconnect the negative terminal of the battery.
2. **Access Existing Taillight:** Locate the existing taillight assembly. This typically involves removing a seat, fender, or access panel to expose the wiring and mounting points.
3. **Disconnect Wiring:** Carefully disconnect the electrical connectors from the old taillight assembly. Note the color coding of the wires for correct re-connection.
4. **Remove Old Taillight Shell:** Unscrew or unclip the old taillight shell from its mounting bracket. Retain any screws or hardware that may be needed for the new installation.
5. **Install New Taillight Shell:** Position the AHL RLC002 taillight shell in place. Secure it using the original mounting hardware or appropriate fasteners. Ensure it is firmly seated and does not wobble.
6. **Connect Wiring:** Reconnect the electrical wires to the new taillight shell. Match the wire colors or functions (e.g., ground, running light, brake light) carefully. If the new shell does not include bulbs, transfer the existing functional bulbs or install new ones into the shell before connecting.
7. **Test Functionality:** Reconnect the motorcycle battery. Turn on the ignition (do not start the engine) and test the running light and brake light functions. Ensure both illuminate correctly and brightly.
8. **Reassemble:** Once confirmed functional, reattach any removed panels, fenders, or seats.



Figure 4.1: Side view of the AHL RLC002 Taillight Shell. This angle highlights the contours and mounting points of the shell.



Figure 4.2: Angled view of the AHL RLC002 Taillight Shell. This perspective shows the internal structure and light-diffusing patterns.



Figure 4.3: Rear view of the AHL RLC002 Taillight Shell, showing 'STANLEY 040-0065 JAPAN' markings. This indicates the original equipment manufacturer or design reference.

5. OPERATION

The AHL RLC002 Taillight Shell functions as a direct replacement for your motorcycle's original rear brake light and tail lamp. When properly installed and connected, it will operate as follows:

- **Running Light:** When the motorcycle's ignition is on and headlights are activated, the taillight will illuminate at a lower intensity, serving as a constant rear marker light.
- **Brake Light:** When the brake lever or pedal is engaged, the taillight will illuminate at a higher intensity, signaling braking to following vehicles.

6. MAINTENANCE

To ensure the longevity and optimal performance of your taillight shell, follow these maintenance guidelines:

- **Cleaning:** Clean the taillight lens regularly with a soft cloth and mild soap and water. Avoid abrasive cleaners or solvents that could damage the plastic.
- **Inspection:** Periodically inspect the taillight for any cracks, damage, or loose connections. Ensure the lens remains clear and free of obstructions.
- **Bulb Replacement:** If the taillight uses replaceable bulbs (not included with the shell), ensure they are of the correct type and wattage as specified by your motorcycle manufacturer. Replace burnt-out bulbs promptly.

7. TROUBLESHOOTING

If your taillight is not functioning as expected, consider the following common issues and solutions:

- **Taillight Not Illuminating:**

- Check the motorcycle's fuse box for a blown fuse related to the lighting circuit.
- Verify all electrical connections are secure and free of corrosion.
- If using replaceable bulbs, check if the bulb is burnt out and replace if necessary.
- Ensure the battery has sufficient charge.

- **Brake Light Not Working (Running Light Works):**

- Check the brake light switch (front lever and rear pedal) for proper operation.
- If using a dual-filament bulb, the brake light filament may be burnt out while the running light filament is still functional. Replace the bulb.
- Inspect the wiring specific to the brake light circuit for damage or loose connections.

- **Dim or Intermittent Light:**

- Check for poor ground connections.
- Inspect for corrosion on bulb contacts or wiring connectors.
- Ensure the correct wattage bulb is installed.

If troubleshooting steps do not resolve the issue, it is recommended to consult a professional motorcycle technician.

8. SPECIFICATIONS

Brand	AHL
Model Number	RLC002
UPC	793169647802
Material	ABS Plastic
Lens Color	Red
Specific Uses	Taillight, Rear Brake Light
Vehicle Service Type	Motorcycle (Honda AX-1)
Special Feature	Waterproof
Item Weight	3 ounces



Figure 8.1: AHL RLC002 Taillight Shell with approximate dimensions. Height: 99mm, Width: 122mm, Depth: 67mm.

9. WARRANTY AND SUPPORT

AHL is committed to customer satisfaction. If you encounter any issues with your AHL RLC002 ABS Plastic Taillight Shell, or if you are not satisfied with the product, please contact us directly. We accept return, replacement, or refund requests in accordance with our policy.

For assistance, please contact AHL customer support. When contacting support, please provide your product model number (RLC002) and details of your inquiry.

