## Advance RELB-2S40-N

# Advance RELB-2S40-N AmbiStar Electronic Fluorescent Ballast User Manual

Model: RELB-2S40-N

## 1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your Advance RELB-2S40-N AmbiStar Electronic Fluorescent Ballast. This electronic ballast is designed to power two F34T12 or two F40T12 linear fluorescent lamps, operating on a 120V input with a rapid start mechanism. Please read this manual thoroughly before proceeding with installation or use.

## 2. Safety Information

**WARNING:** Risk of electric shock. Improper installation or use can result in serious injury or death. Always follow these safety guidelines:

- Disconnect power at the circuit breaker or fuse box before installing, servicing, or removing the ballast.
- Installation should be performed by a qualified electrician in accordance with all national and local electrical codes.
- Ensure the input voltage (120V) matches the ballast's requirements.
- Do not operate the ballast with damaged wiring or if the casing is compromised.
- This ballast is UL listed, indicating compliance with safety standards.
- Do not attempt to open or repair the ballast. There are no user-serviceable parts inside.

## 3. Setup and Installation

Before beginning installation, ensure power is disconnected. This ballast is designed for rack mount applications.




Image of the Advance RELB-2S40-N AmbiStar Electronic Fluorescent Ballast, showing its compact design and wiring terminals.

### 3.1 Mounting

1. Identify a suitable location within the fixture for rack mounting.
2. Secure the ballast using appropriate screws through its mounting slots. The ballast may be narrower than older models, but it is designed to fit standard mounting configurations.

### 3.2 Wiring

Refer to the wiring diagram on the ballast label for precise connections. A typical wiring configuration for two lamps is as follows:

- Connect the two yellow wires from the ballast to one end of the fluorescent lamps (typically one yellow wire to each lamp's end terminal).
- Connect the two red wires and two blue wires from the ballast to the other end of the fluorescent lamps (typically one red and one blue wire to each lamp's end terminals).
- Connect the black wire from the ballast to the incoming 120V line (hot) power supply.
- Connect the white wire from the ballast to the incoming 120V neutral power supply.
- Ensure all connections are secure and insulated.

## 4. Operating Instructions

Once properly installed and wired, the Advance RELB-2S40-N ballast operates automatically. Restore power to the circuit, and the connected fluorescent lamps will illuminate. This ballast features a rapid start mechanism, providing quick lamp ignition.

## 5. Maintenance

The Advance RELB-2S40-N electronic ballast is a sealed unit and requires no internal maintenance. For optimal performance and longevity, consider the following:

- Periodically inspect the fixture for dust and debris accumulation. Clean the fixture and lamps as needed, ensuring power is disconnected first.

- Ensure proper ventilation around the ballast to prevent overheating.
- If lamps flicker or fail to start, refer to the troubleshooting section.

## 6. Troubleshooting

If your fluorescent lighting system is not functioning correctly, perform the following checks:

| Problem | Possible Cause | Solution |
|---|---|---|
| Lamps do not light | No power to the fixture<br>Faulty lamps<br>Incorrect wiring<br>Defective ballast | Check circuit breaker/fuse.<br>Replace lamps with known good ones.<br>Verify all wiring connections against the diagram.<br>If other solutions fail, the ballast may need replacement. |
| Lamps flicker or are dim | Incorrect lamp type<br>Loose wiring connection<br>Aging lamps<br>Ballast nearing end of life | Ensure lamps are F34T12 or F40T12.<br>Check and secure all wiring connections.<br>Replace lamps.<br>Consider ballast replacement if lamps are new and wiring is correct. |
| Ballast hums loudly | Loose mounting<br>Internal component issue | Ensure ballast is securely mounted.<br>If humming persists, the ballast may be defective and require replacement. |

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified electrician for further diagnosis and repair.

## 7. Specifications

Key technical specifications for the Advance RELB-2S40-N AmbiStar Electronic Fluorescent Ballast:

- **Brand:** Advance
- **Model:** RELB-2S40-N
- **Input Voltage:** 120V
- **Current Rating:** 0.5 A
- **Compatible Lamp Types:** (2) F34T12 or (2) F40T12 Linear Fluorescent Lamps
- **Start Type:** Rapid Start
- **Mounting Type:** Rack Mount
- **Specification Met:** UL
- **Item Weight:** 11.36 ounces
- **Number of Items:** 1

## 8. Warranty and Support

This product is sold with **No Warranty** as per the manufacturer's stated policy. For technical assistance, product inquiries, or further support, please contact Advance customer service directly. Contact information can typically be found on the manufacturer's official website or product packaging.

## Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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**Question**

Example: How do I reset this device or fix this error?

**Details**

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question