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› [SYLVANIA](#) /

› SYLVANIA FP14/865/ECO T5 Fluorescent Tube Instruction Manual

## SYLVANIA FP14/865/ECO

# SYLVANIA FP14/865/ECO T5 Fluorescent Tube Instruction Manual

Model: FP14/865/ECO | Part Number: 20988

## 1. INTRODUCTION

This manual provides essential information for the safe installation, operation, and maintenance of your SYLVANIA FP14/865/ECO T5 Fluorescent Tubes. These 14-watt, 6500K tubes are designed for general illumination applications, offering efficient and bright lighting. Please read this manual thoroughly before installation and retain it for future reference.

## 2. SAFETY INFORMATION

**WARNING:** Risk of electric shock. Always disconnect power before installation, removal, or servicing. Failure to do so may result in serious injury or death.

- Ensure the power supply is turned off at the circuit breaker or fuse box before handling the tubes.
- Do not install in wet locations unless the fixture is specifically rated for such use.
- These tubes contain mercury. Handle with care. In case of breakage, follow local guidelines for cleanup and disposal.
- Do not use with dimmers unless the ballast and fixture are specifically designed for dimmable fluorescent lamps.
- Ensure the fixture is compatible with T5 fluorescent tubes and the specified wattage (14W).
- Installation should be performed by a qualified electrician if you are unsure about the process.

## 3. PRODUCT OVERVIEW

The SYLVANIA FP14/865/ECO is a 14-watt T5 fluorescent tube, designed for energy-efficient lighting. It features a 6500K color temperature, providing a cool white light, and utilizes 800 series phosphors for good color rendering.



**Figure 3.1:** SYLVANIA FP14/865/ECO T5 Fluorescent Tube. This image displays the tube with its end cap and printed specifications including "SYLVANIA PENTRON® 6500K 14W FP14/865/ECO CHINA 1758".

Each package contains 40 individual tubes, ensuring a sufficient supply for larger installations or replacements.



**Figure 3.2:** Product Packaging. This image shows the cardboard packaging for the SYLVANIA FP14/865/ECO tubes, clearly indicating "SYLVANIA 40 BULBS 1 PER SKU 40 SKU'S FP14/865/ECO PENTRON® ECO® T5 Miniature Bipin 6500K Programmed Rapid Start 14W" along with part numbers "A A74 920 00 DC", "20988-3", and GTIN "10046135209885".

## 4. SETUP AND INSTALLATION

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1. **Power Disconnection:** Before beginning, ensure the power to the fixture is completely turned off at the circuit breaker or fuse box. Verify with a voltage tester if necessary.
2. **Fixture Compatibility:** Confirm that your lighting fixture is designed for T5 fluorescent tubes and is compatible with 14-watt lamps. Using an incompatible fixture or ballast can damage the tube or fixture.
3. **Remove Old Tube (if applicable):** Carefully twist the old fluorescent tube 90 degrees and gently pull it out of the lampholders. Dispose of old tubes according to local regulations, especially if they contain mercury.
4. **Insert New Tube:** Align the pins on both ends of the SYLVANIA FP14/865/ECO tube with the slots in the lampholders. Gently push the tube into the lampholders until the pins are fully seated, then twist the tube 90 degrees to lock it into place. Do not force the tube.
5. **Secure Installation:** Ensure the tube is securely seated and properly aligned in the fixture.
6. **Restore Power:** Once the tube is securely installed, restore power to the fixture from the circuit breaker or fuse box.
7. **Test Operation:** Turn on the light switch to confirm proper operation.

## 5. OPERATING INSTRUCTIONS

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Operating the SYLVANIA FP14/865/ECO T5 fluorescent tube is straightforward once installed:

- **Turning On:** Activate the wall switch or fixture control connected to the fluorescent fixture. The tube should illuminate immediately or after a brief flicker, depending on the ballast type.
- **Turning Off:** Deactivate the wall switch or fixture control to turn off the light.

For optimal performance and lifespan, avoid frequent on/off cycling.

## 6. MAINTENANCE

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Minimal maintenance is required for your SYLVANIA fluorescent tubes.

- **Cleaning:** Periodically, with the power off, gently wipe the tube with a soft, dry, or slightly damp cloth to remove dust and debris. Do not use abrasive cleaners or solvents.
- **Replacement:** Replace tubes when they begin to flicker excessively, dim significantly, or fail to light. Always replace with a tube of the same type (T5), wattage (14W), and color temperature (6500K) for consistent lighting.
- **Disposal:** Fluorescent tubes contain small amounts of mercury. Dispose of old or broken tubes according to local environmental regulations. Many communities have recycling programs for fluorescent lamps.

## 7. TROUBLESHOOTING

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| Problem                 | Possible Cause                                                                                                                                                                                     | Solution                                                                                                                                                                                                                                                                                                                           |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tube does not light up. | <ul style="list-style-type: none"><li>• No power to the fixture.</li><li>• Tube not properly seated.</li><li>• Defective tube.</li><li>• Defective ballast.</li><li>• Faulty lampholder.</li></ul> | <ul style="list-style-type: none"><li>• Check circuit breaker/fuse.</li><li>• Ensure tube is twisted 90 degrees and fully seated.</li><li>• Replace with a new tube.</li><li>• Consult a qualified electrician to inspect/replace the ballast.</li><li>• Consult a qualified electrician to inspect/replace lampholders.</li></ul> |

| Problem                | Possible Cause                                                                                                                                                                        | Solution                                                                                                                                                                                                                                                         |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tube flickers or hums. | <ul style="list-style-type: none"><li>• Tube nearing end of life.</li><li>• Incorrect ballast for the tube.</li><li>• Loose connection.</li><li>• Cold ambient temperature.</li></ul> | <ul style="list-style-type: none"><li>• Replace the tube.</li><li>• Ensure ballast matches tube specifications.</li><li>• Check tube seating; consult electrician for wiring.</li><li>• Fluorescent tubes may take longer to start in cold conditions.</li></ul> |
| Reduced light output.  | <ul style="list-style-type: none"><li>• Tube nearing end of life.</li><li>• Dust/dirt on the tube or fixture.</li></ul>                                                               | <ul style="list-style-type: none"><li>• Replace the tube.</li><li>• Clean the tube and fixture (with power off).</li></ul>                                                                                                                                       |

## 8. SPECIFICATIONS

|                   |                               |
|-------------------|-------------------------------|
| Brand             | SYLVANIA                      |
| Model Number      | FP14/865/ECO                  |
| Part Number       | 20988                         |
| Light Type        | Fluorescent T5 Tube           |
| Wattage           | 14 Watts                      |
| Color Temperature | 6500 Kelvin (Cool White)      |
| Phosphor Series   | 800 Series                    |
| Voltage (Nominal) | 120 Volts (Ballast dependent) |
| Shape             | Tubular (T5)                  |
| Base Type         | Miniature Bipin (G5)          |
| Quantity per Pack | 40 Pieces                     |
| GTIN              | 10046135209885                |

## 9. WARRANTY AND SUPPORT

For specific warranty information regarding your SYLVANIA FP14/865/ECO T5 Fluorescent Tubes, please refer to the product packaging or contact SYLVANIA customer support directly. General product information can often be found on the official SYLVANIA website.

**SYLVANIA Customer Support:**

- **Website:** [www.sylvania.com](http://www.sylvania.com) (Please check for regional variations)
- Refer to your purchase documentation for specific contact details.

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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.

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