Ciglow Ciglowyrmu16w2kc

IC Tester TES200 Digital Integration Test User Manual

Model: TES200 (Ciglowyrmu16w2kc)

Brand: Ciglow

1. Product Overview

The Ciglow TES200 is a versatile digital integration tester designed for efficient and accurate testing of integrated circuits. It is primarily used to test **74 series** and **40 series** integrated digital components, capable of testing over 200 different integrations.

This device offers fine workmanship and stable, powerful performance for long-term use. Its simple operation allows users to quickly determine the functionality of integrated logic gates, identifying faulty components with ease. The selection of integration tests is performed through intuitive key operations.

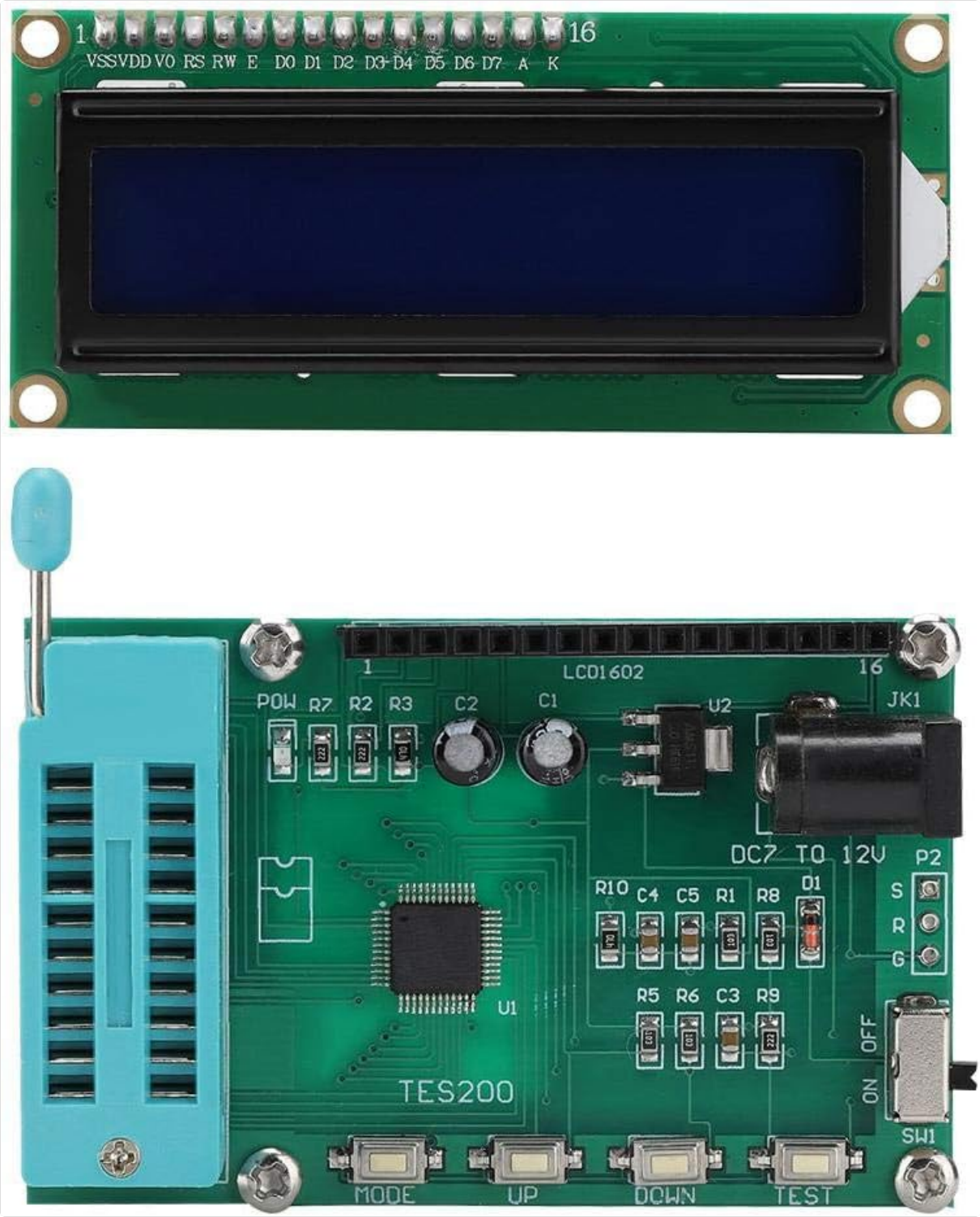

Figure 1.1: The TES200 IC Tester and its accompanying display module.

Video 1.1: An overview of the Ciglow IC Tester's functionality and components.

2. Package Contents

Upon opening the package, please verify that all components are present and undamaged:

- 1 x TES200 IC Tester Unit
- 1 x LCD Display Module

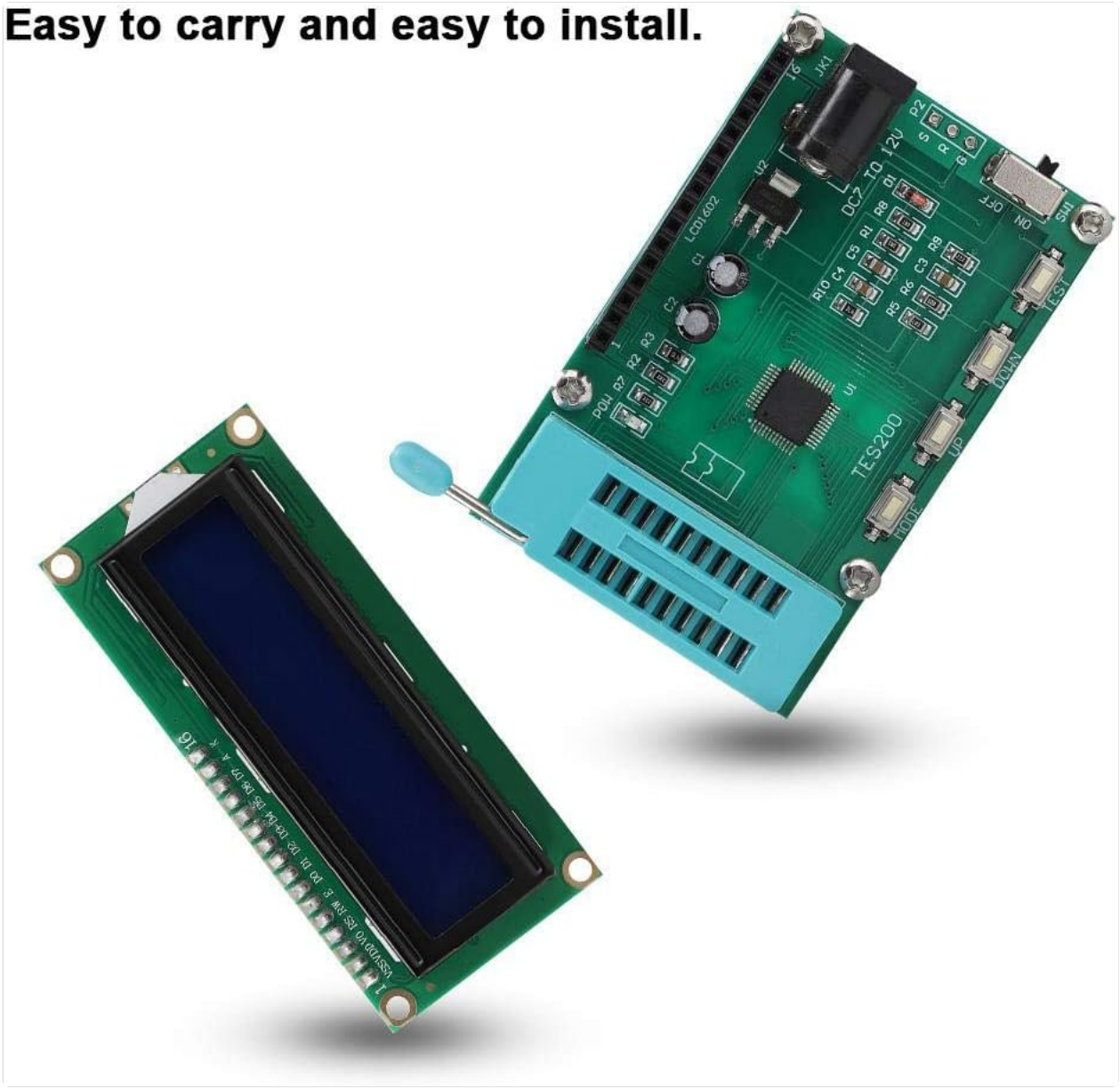

Figure 2.1: The TES200 IC Tester and its separate LCD display module.

3. Key Features

- **Digital Integration Test:** Specifically designed for 74 series and 40 series integrated digital circuits.
- **Extensive Compatibility:** Capable of testing more than 200 different integrated circuits.
- **User-Friendly Operation:** Simple key operations for selecting and performing tests.
- **Fault Identification:** The test logic can determine if integrated logic gates are faulty.
- **Portable Design:** Easy to carry and install, offering strong and stable performance.
- **Durable Construction:** Fine workmanship built to strict quality standards for long-term reliability.

4. Setup

Before operating the TES200 IC Tester, follow these steps to ensure proper setup:

1. **Connect the Display:** Carefully connect the LCD display module to the main TES200 tester unit. Ensure the pins are correctly aligned and seated firmly.
2. **Power Connection:** Connect a 7-12 VDC power supply to the designated power input port on the TES200 unit.

3. **Power On:** Locate the **SW1 Power** switch on the side of the unit. Slide the switch to the **ON** position to power on the device. The display should illuminate.

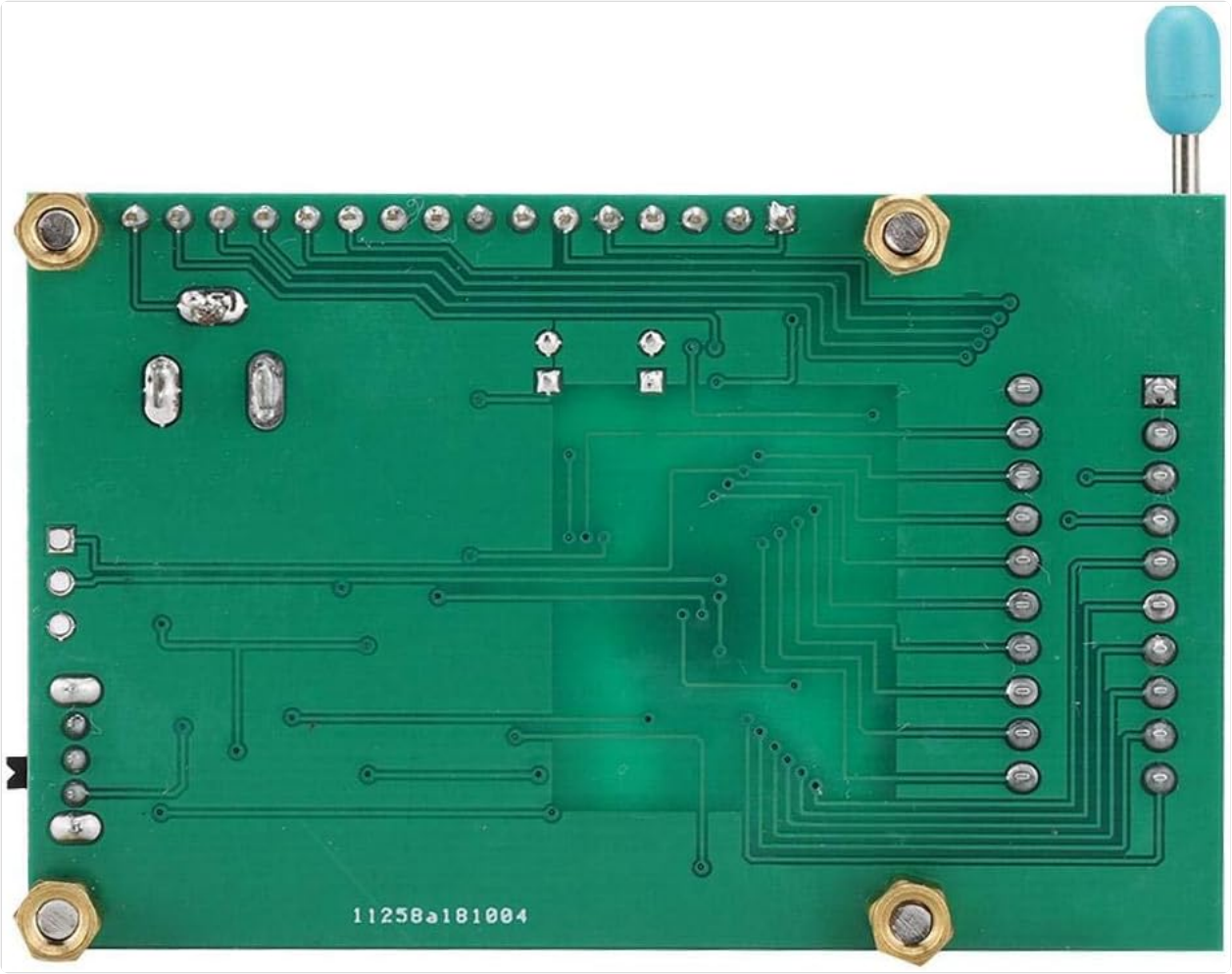

Figure 4.1: Rear view of the TES200 main board, showing connection points.

5. Operating Instructions

The TES200 features a straightforward interface for testing integrated circuits.

5.1 Key Descriptions

- **MODE:** Press this button to select the integration type. You can switch between **74 series** and **40 series** ICs.
- **UP:** Use this button to select the previous integration model within the chosen series.
- **DOWN:** Use this button to select the next integration model within the chosen series.
- **Test:** After selecting the desired integration model, press this button to initiate the test.

5.2 Testing Procedure

1. **Insert IC:** Carefully insert the integrated circuit into the ZIF (Zero Insertion Force) socket on the TES200. **Note:** Ensure the IC is aligned correctly, with pin 1 facing the designated indicator on the socket. Align the IC down when installing for testing.
2. **Select Series:** Press the **MODE** button to toggle between 74 series and 40 series testing modes, matching the type of IC you are testing.
3. **Select Model:** Use the **UP** and **DOWN** buttons to navigate through the available IC models until the correct model number for your IC is displayed.

4. **Run Test:** Once the correct model is selected, press the **Test** button. The TES200 will perform the test and display the result on the LCD screen, indicating whether the IC is **GOOD** or if there are issues.

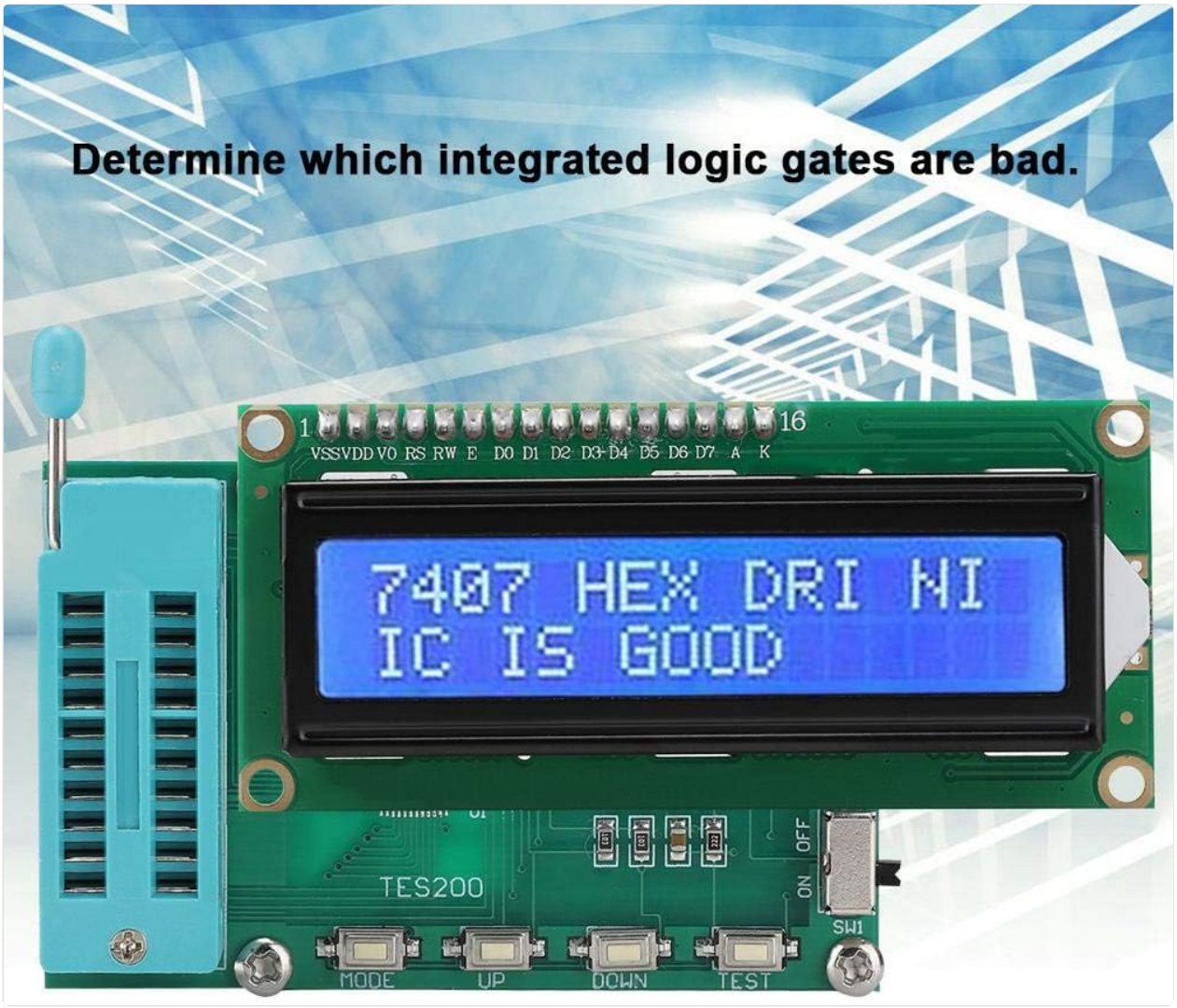

Figure 5.1: The LCD display indicating a successful test with 'IC IS GOOD'.

Figure 5.2: The TES200 unit and display during an active test operation.

6. Maintenance

To ensure the longevity and optimal performance of your TES200 IC Tester, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using abrasive cleaners or solvents, which can damage the plastic and electronic components.
- **Storage:** Store the tester in a cool, dry place away from direct sunlight, excessive heat, and moisture. When not in use, it is recommended to store it in its original packaging or a protective case.
- **Handle with Care:** The ZIF socket and display are sensitive components. Avoid applying excessive force when inserting or removing ICs, and protect the display from impacts.
- **Power Off When Not in Use:** Always turn off the device using the SW1 Power switch when it is not in active use to conserve power and prevent unnecessary wear.

7. Troubleshooting

If you encounter issues with your TES200 IC Tester, refer to the following common problems and solutions:

- **Device Does Not Power On:**
  - Ensure the power supply is correctly connected and providing 7-12 VDC.
  - Check that the SW1 Power switch is in the**ON** position.
  - Verify the power adapter is functional.
- **Display is Blank or Shows Garbled Characters:**
  - Ensure the LCD display module is securely connected to the main tester unit.
  - Power cycle the device (turn off, then turn on again).
- **Incorrect Test Results or IC Always Shows 'BAD':**
  - Verify that the IC is inserted correctly into the ZIF socket, with proper alignment.
  - Ensure you have selected the correct IC series (74 or 40) using the**MODE** button.
  - Confirm that the exact IC model number is selected using the**UP**/**DOWN** buttons before pressing **Test**.
  - Clean the pins of the IC before insertion to ensure good contact.
  - Test a known good IC of the same type to confirm the tester's functionality.
- **Buttons Are Unresponsive:**
  - Power cycle the device.
  - Ensure no debris is lodged around the buttons.

If the problem persists after attempting these solutions, please contact customer support for further assistance.

8. Specifications

Parameter	Value
Working Voltage	7~12 VDC
Working Current	<30 mA
Working Temperature	-40℃ ~ 65℃
Storage Temperature	-40℃ ~ 65℃
Brand	Ciglow
Model Number	Ciglowyrmu16w2kc
Power Source	Corded Electric
Style	Digital
Item Weight	0.06 Kilograms (2.11 ounces)
Minimum Operating Voltage	7 Volts (DC)
Upper Temperature Rating	65 Degrees Celsius

Parameter	Value
UPC	748904525631
ASIN	B07X561WJF
Date First Available	August 29, 2019

9. Warranty and Support

For warranty information, technical support, or any inquiries regarding your Ciglow TES200 IC Tester, please refer to the contact information provided with your purchase or visit the official Ciglow website. Keep your purchase receipt as proof of purchase for warranty claims.