

ASHATA ASHATAeukbnpf7g3-05

ASHATA Digital LED Clock DIY Kit Instruction Manual

Model: ASHATAeukbnpf7g3-05

INTRODUCTION

Thank you for choosing the ASHATA Digital LED Clock DIY Kit. This kit provides an engaging project to assemble a multifunctional digital clock featuring time and temperature display, an alarm function, and automatic brightness adjustment. Designed with plug-in components, this kit aims for a high success rate in production, making it suitable for enthusiasts and educational purposes. This manual will guide you through the assembly, operation, and maintenance of your new digital clock.

PRODUCT OVERVIEW

Key Features:

- **Digital Tube Display:** Utilizes a digital tube display principle for clear time and temperature readings.
- **Multifunctional Display:** Alternates between displaying the current time and ambient temperature.
- **Alarm Function:** Includes an alarm to assist with daily routines.
- **Automatic Brightness Adjustment:** The display brightness adjusts automatically based on ambient light conditions.
- **Time Animations:** Features six distinct time display animations.
- **Offline Animations:** Includes seven offline animations for visual interest.
- **Power-Off Memory:** Retains time settings after a power outage, eliminating the need for re-adjustment.
- **Pre-configured Program:** The clock's program is pre-configured for direct use after assembly.

Package Contents:

The ASHATA Digital LED Clock DIY Kit includes all necessary components for assembly. Please verify that all items listed below are present in your package.

- 1x Light Control Clock Kit with installation accessories
- 1x USB Cable
- *Optional:* Case (if purchased with case option)



Image: All components included in the ASHATA Digital LED Clock DIY Kit, laid out for assembly. This includes the main circuit board, digital display, LEDs, resistors, integrated circuits, and a USB power cable.

SETUP AND ASSEMBLY

This section provides general guidance for assembling your ASHATA Digital LED Clock DIY Kit. While the kit is designed for ease of assembly with plug-in components, basic knowledge of electronics and careful attention to detail are recommended.

1. **Component Identification:** Before starting, carefully identify all components against the provided list and the image below. Familiarize yourself with the main circuit board (PCB), digital display, LEDs, resistors, and integrated circuits.
2. **PCB Preparation:** Ensure the PCB is clean and free from any debris.
3. **Component Placement:** Insert components into their designated positions on the PCB. Pay close attention to polarity for LEDs and integrated circuits (ICs). The kit uses plug-in components, which simplifies the process.
4. **Soldering (if applicable):** If any components require soldering, ensure proper soldering techniques are used to create strong, clean connections. Avoid cold solder joints or solder bridges.

5. **LED Installation:** Install the LEDs around the circular pattern on the PCB. Ensure they are oriented correctly.
6. **Digital Display Installation:** Securely attach the 4-digit 7-segment display to its designated area on the PCB.
7. **Final Checks:** After all components are installed, visually inspect the PCB for any misplaced components, incorrect polarity, or poor connections.
8. **Case Assembly (Optional):** If your kit includes a case, carefully assemble it around the finished circuit board, ensuring all buttons and displays align correctly.



Image: A detailed view of the circuit board components and electronic parts, including the green PCB, a yellow circular element, and connecting wires, illustrating the assembly sequence. This image helps in identifying parts during the setup process.

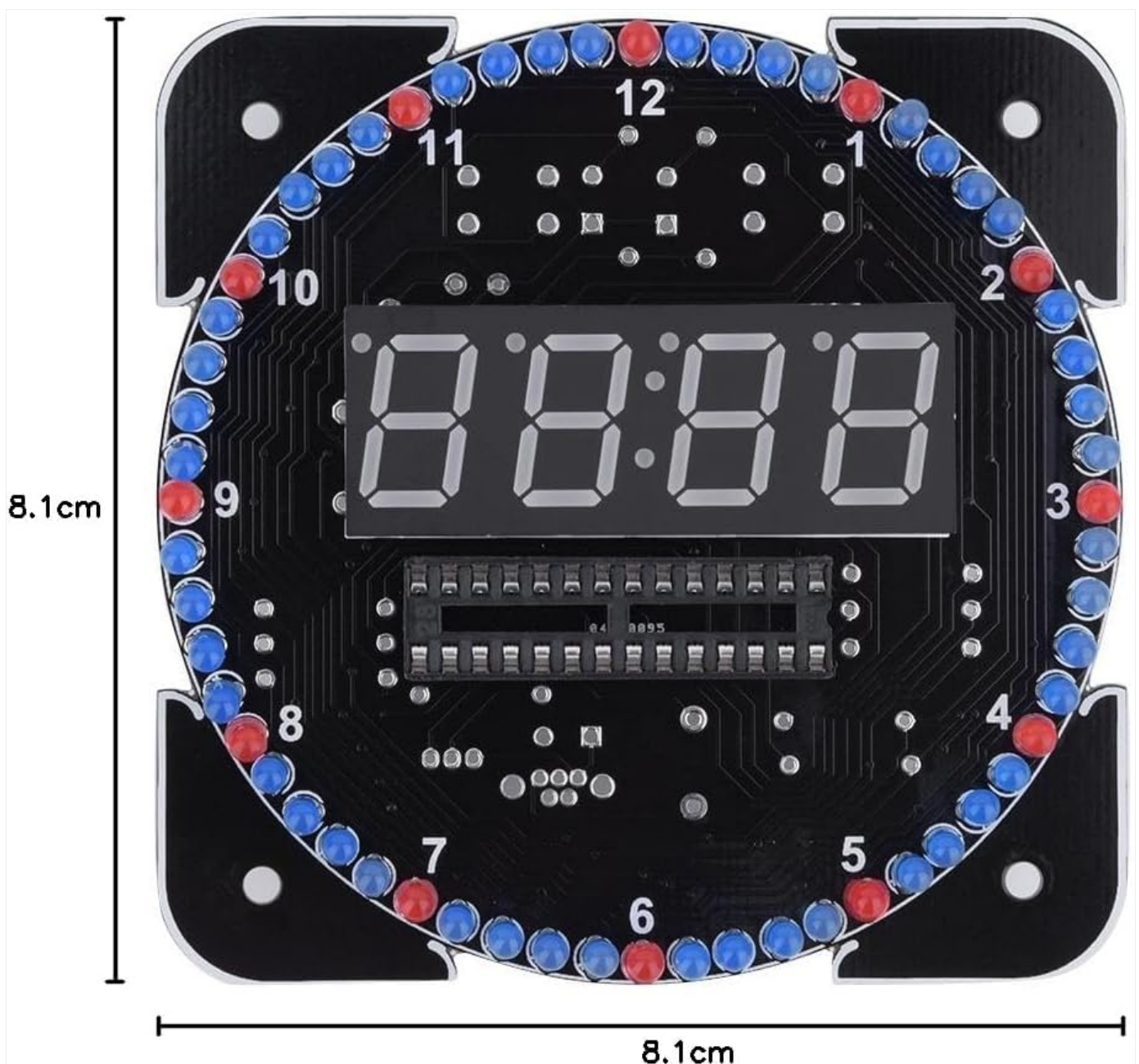


Image: The assembled ASHATA Digital LED Clock showing its compact dimensions of 8.1 cm by 8.1 cm. This provides a visual reference for the final product

OPERATING INSTRUCTIONS

Once assembled, connect the clock to a 5V power source using the provided USB cable (e.g., a mobile phone charger, USB power adapter). The clock's program is pre-configured, so it should start functioning upon power-up.



with light control function, the brightness can be automatically
adjusted according to the environment

Image: The ASHATA Digital LED Clock displaying the time "07:22" with surrounding LEDs illuminated. This demonstrates the clock in active operation.

Basic Functions:

- **Time and Temperature Display:** The clock will automatically alternate between displaying the current time and the ambient temperature.
- **Setting Time:** Specific buttons or methods for setting the time are typically present on the PCB or case. Refer to the markings on your assembled unit for "SET" or "ADJUST" buttons. Pressing these buttons usually allows you to cycle through hours, minutes, and other settings.
- **Alarm Function:** The clock includes an alarm. Look for an "ALARM" button or a combination of "SET" and other buttons to activate and set the alarm time. The alarm can typically be disabled.
- **Brightness Control:** The clock features an automatic light control function, adjusting its display brightness according to the surrounding environment. This function can usually be disabled if manual control is preferred.

- **Display Animations:** The clock cycles through various time and offline animations. These are pre-programmed and provide dynamic visual effects.
- **Power Loss Memory:** In the event of a power interruption, the clock is designed to retain its time settings, so you will not need to reset it when power is restored.

Note: Due to the DIY nature, specific button labels and exact operation sequences may vary slightly. Please refer to the markings on your assembled circuit board or case for precise control.

MAINTENANCE

To ensure the longevity and optimal performance of your ASHATA Digital LED Clock, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to gently wipe the display and casing. Avoid using abrasive cleaners, solvents, or excessive moisture, which can damage the electronic components.
- **Environment:** Operate the clock in a dry environment, away from direct sunlight, extreme temperatures, and high humidity.
- **Power Supply:** Always use a stable 5V power supply via the USB cable. Avoid using uncertified or damaged power adapters.
- **Handling:** Handle the assembled clock with care to prevent damage to the circuit board or components.

TROUBLESHOOTING

If you encounter issues with your ASHATA Digital LED Clock, please refer to the following troubleshooting tips:

Problem	Possible Cause	Solution
Clock does not power on.	◦ Loose USB connection. ◦ Faulty USB cable or power adapter. ◦ Incorrectly installed components (e.g., ICs, LEDs). ◦ Short circuit on the PCB.	◦ Ensure the USB cable is securely connected to both the clock and the power source. ◦ Try a different USB cable and power adapter. ◦ Carefully inspect all components for correct placement and polarity. Check for any solder bridges or cold joints if soldering was involved.
Display is dim or flickering.	◦ Insufficient power supply. ◦ Faulty LEDs or digital display. ◦ Issue with automatic brightness sensor.	◦ Ensure the power supply provides stable 5V. ◦ Inspect LEDs and display for any visible damage or loose connections. ◦ Check if the automatic brightness function can be toggled or reset.
Time or temperature display is incorrect.	◦ Time not set correctly. ◦ Temperature sensor issue.	◦ Refer to the "Operating Instructions" to correctly set the time. ◦ Ensure the temperature sensor component is correctly installed and not obstructed.

Problem	Possible Cause	Solution
Alarm does not sound.	- Alarm not activated or set. - Speaker/buzzer not connected or faulty.	- Verify the alarm is set and activated according to the operating instructions. - Check the connection of the speaker/buzzer component on the PCB.

SPECIFICATIONS

Feature	Detail
Brand	ASHATA
Model Number	ASHATAeukbnpf7g3-05
Material	Plastic (for PCB and optional case)
PCB Dimensions (L x W)	8.1 cm x 8.1 cm
Weight (Clock + USB Cable)	68 grams
Weight (Clock + USB Cable + Case)	136 grams (if case option is chosen)
Operating Voltage	5V (via USB)
Display Type	Digital LED Tube
Special Features	Temperature Display, Alarm, Automatic Light Control, Power-Off Memory
Movement Type	Quartz (electronic)
Indoor/Outdoor Use	Indoor

WARRANTY AND SUPPORT

For information regarding warranty, returns, or technical support for your ASHATA Digital LED Clock DIY Kit, please refer to the purchase platform or contact ASHATA customer service directly. Keep your proof of purchase for any warranty claims.

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.

Name

Anonymous

Email

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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

Answered questions about this manual

How can I assemble the ASHATA Digital LED Clock DIY Kit (Model ASHATAeukbnpf7g3-05) if the component layout diagram is missing?

If you are missing a physical layout diagram for the ASHATA Digital LED Clock DIY Kit (Model ASHATAeukbnpf7g3-05), you can still proceed by following the markings on the PCB and the general assembly guidelines...

[Read full answer](#)

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