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› Duda Energy YS-720 Electronic Timer User Manual

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Duda Energy YS-720 Electronic Timer User Manual

Model: YS-720 | Brand: Duda Diesel

1. INTRODUCTION

The Duda Energy YS-720 Electronic Timer is designed for actuating solenoid valves, enabling automatic opening and closing at specified time intervals. This device is highly versatile and can be applied in various scenarios requiring precise timing, such as water fountains, chemical mixing processes, and other automated systems.

2. SETUP AND INSTALLATION

Before installation, ensure the power supply matches the timer's specifications (24-240V AC/DC). The YS-720 timer is designed for direct connection to compatible solenoid valves.

- Power Disconnection:** Always disconnect power to the solenoid valve and the power source before beginning installation.
- Mounting:** The timer typically mounts directly onto the solenoid valve's coil connection. Ensure a secure and stable connection.
- Electrical Connection:** Connect the timer's terminals to the appropriate power supply and the solenoid valve's terminals. Refer to the wiring diagram provided with your specific solenoid valve for correct polarity and connections.
- Secure Connections:** Double-check all electrical connections to ensure they are tight and properly insulated to prevent short circuits or disconnections.



Figure 1: Front view of the YS-720 Electronic Timer, displaying the ON and OFF time adjustment dials and the 'TEST' button. The 'ON' dial controls the duration the valve is open (in seconds), and the 'OFF' dial controls the duration the valve is closed (in minutes).

3. OPERATING INSTRUCTIONS

The YS-720 timer allows for precise control over the ON and OFF cycles of your solenoid valve.

- **Setting ON Time:** Use the left dial, labeled "ON:SEC", to set the duration the solenoid valve will be open. The markings indicate time in seconds (e.g., 0.5, 2, 4, 6, 8, 10 seconds). Rotate the dial to the desired ON time.
- **Setting OFF Time:** Use the right dial, labeled "OFF:MIN", to set the duration the solenoid valve will be closed. The markings indicate time in minutes (e.g., 0.5, 5, 10, 20, 30, 40, 45 minutes). Rotate the dial to the desired OFF time.

- **Test Button:** The "TEST" button allows for manual activation of the solenoid valve to verify operation without waiting for the timed cycle. Pressing this button will momentarily open the valve.
- **Indicator Lights:** The timer features "ON" and "OFF" indicator lights. The "ON" light illuminates when the valve is open, and the "OFF" light illuminates when the valve is closed.

Once the desired ON and OFF times are set, the timer will automatically cycle the solenoid valve according to the programmed intervals.

4. MAINTENANCE

The Duda Energy YS-720 Electronic Timer requires minimal maintenance to ensure long-term reliable operation.

- **Cleaning:** Periodically wipe the exterior of the timer with a soft, dry cloth to remove dust and debris. Do not use abrasive cleaners or solvents.
- **Environmental Conditions:** Ensure the timer is operated within its specified temperature and humidity ranges. Avoid exposure to excessive moisture or extreme temperatures.
- **Connection Check:** Occasionally inspect the electrical connections to ensure they remain secure and free from corrosion.



Figure 2: Back view of the YS-720 Electronic Timer, illustrating the connection interface for the solenoid valve and power supply. Proper connection is crucial for safe and effective operation.

5. TROUBLESHOOTING

If you encounter issues with your YS-720 Electronic Timer, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Timer not powering on.	No power supply; incorrect voltage; loose connection.	Verify power source is active. Check voltage compatibility. Ensure all connections are secure.
Solenoid valve not actuating.	Incorrect timer settings; faulty solenoid valve; wiring error.	Check ON/OFF dial settings. Test the solenoid valve independently if possible. Review wiring diagram and connections.
Timer cycles incorrectly.	Dials not set precisely; internal malfunction.	Carefully re-adjust ON/OFF dials. If problem persists, contact customer support.

6. SPECIFICATIONS

- **Model:** YS-720
- **Brand:** Duda Diesel
- **Input Voltage:** 24-240V AC/DC
- **ON Time Range:** 0.5 to 10 seconds
- **OFF Time Range:** 0.5 to 45 minutes
- **Color:** Black
- **Item Weight:** 0.01 Ounces
- **Package Dimensions:** 3.6 x 2.1 x 1.4 inches
- **Manufacturer:** Duda Energy
- **Country of Origin:** China
- **UPC:** 840194121705

7. WARRANTY AND SUPPORT

For warranty information or technical support regarding your Duda Energy YS-720 Electronic Timer, please refer to the documentation provided with your purchase or contact Duda Diesel customer service directly. Contact details can typically be found on the manufacturer's official website or on your purchase receipt.

For further assistance, you may visit the [Duda Diesel brand page on Amazon](#).

