GE 15163

GE 15163 24-Hour Mechanical Timer Switch User Manual

Model: 15163

Important Safety Information

WARNING: Risk of electric shock. This device operates with high voltage. Installation and servicing should only be performed by a qualified electrician in accordance with all national and local electrical codes.

- Always disconnect power at the circuit breaker or fuse box before installing or servicing the timer switch.
- Ensure all wiring connections are secure and properly insulated.
- Do not operate the timer switch if the enclosure is damaged or if any internal components are exposed.
- The enclosure must be properly grounded. Ensure continuous electrical contact in all grounding conductors and terminals.
- This timer is designed for 120VAC systems up to 5HP and 40A. Do not exceed these ratings.

Product Overview

The GE 15163 24-Hour Mechanical Timer Switch is designed for scheduling the operation of heavy-duty electrical equipment. Its robust construction and NEMA 3R-rated enclosure make it suitable for both indoor and outdoor applications.

Key Features:

- **24-Hour Cycle:** Provides daily scheduling with ON/OFF trippers.
- **Heavy-Duty Construction:** Features a durable metal NEMA 3R-rated enclosure.
- **High Load Capacity:** Supports 120VAC systems up to 5HP and 40A.
- **Manual Override:** Allows for temporary ON/OFF operation without affecting programmed settings.
- **Tamper Resistant:** Lockable enclosure protects settings and wiring.
- **Versatile Applications:** Suitable for fans, pumps, pool heaters, AC units, water heaters, and lighting systems.

Image: The GE 15163 24-Hour Mechanical Timer Switch, showcasing its robust NEMA 3R outdoor-rated enclosure.

Package Contents

- 1 x GE 15163 24-Hour Mechanical Timer Switch (with NEMA 3R enclosure)
- 1 x Set of ON/OFF Trippers
- Instruction Manual (this document)

Specifications

Manufacturer	GE
Model Number	15163
Voltage	120 Volts AC
Load Capacity	5 HP, 40 Amps
Wattage	4800 watts
Enclosure Rating	NEMA 3R (Rainproof, Tamper Resistant)
Switch Type	Single-pole single-throw (SPST)
Dimensions	5.22 x 6.46 x 9.7 inches
Weight	3.3 pounds

Material	Metal
Certification	cUL Listed

Installation

Important: Installation must be performed by a qualified electrician. Ensure power is disconnected at the main circuit breaker before beginning any installation work.

1. Remove Knockouts

The timer enclosure features pre-stamped 1/2 inch and 3/4 inch knockouts for wiring access. Select the appropriate size for your wiring conduit.

1. Place a screwdriver tip on the desired knockout.
2. Strike the screwdriver handle with a hammer to break the knockout seal.
3. Use pliers to grasp the loosened knockout and twist it to remove the outer ring completely.

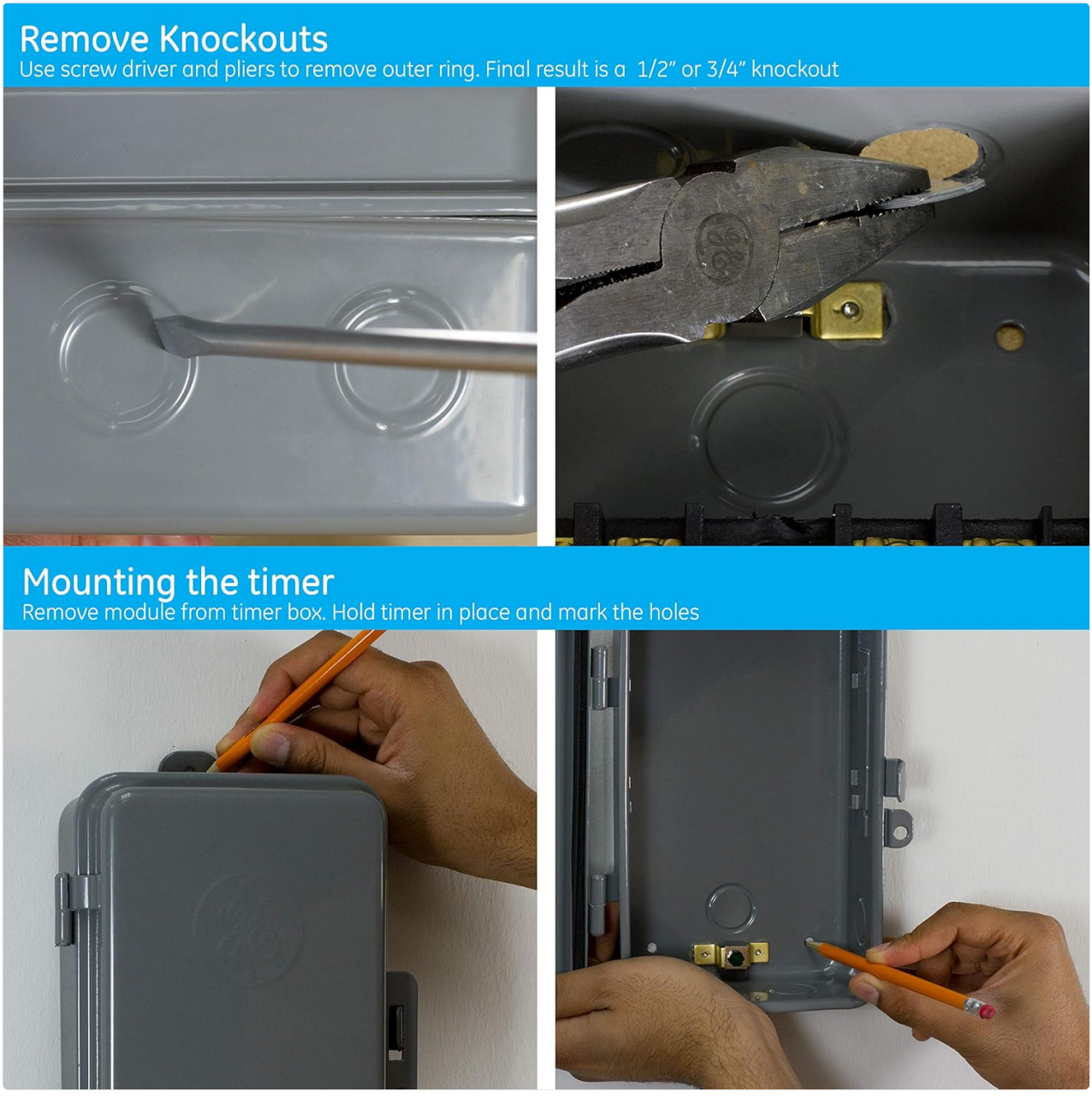

Image: Illustration showing the process of removing knockouts from the timer enclosure using a screwdriver and pliers, followed by marking mounting holes.

2. Mounting the Timer

The NEMA 3R enclosure is designed for wall mounting. Ensure the mounting surface is stable and capable of supporting the timer's weight.

1. Open the timer enclosure door.
2. Remove the internal timer module from the box by unscrewing the retaining screws.
3. Hold the empty enclosure against the desired mounting location.
4. Mark the positions for the mounting holes using a pencil or marker.
5. Drill pilot holes if necessary, suitable for your mounting hardware (screws, anchors, etc.).
6. Securely fasten the enclosure to the wall.
7. Reinstall the timer module into the mounted enclosure.

3. Wiring Connections

The timer switch features convenient screw terminals for secure wiring. Refer to the wiring diagram inside the enclosure for specific connections. Ensure all connections are tight and correct for your application.

- Connect the incoming power supply (LINE) to the designated terminal.
- Connect the load (e.g., pump, water heater) to the designated terminal.
- Connect the neutral wire to the neutral terminal.
- Ensure the ground wire is securely connected to the ground lug within the metal box and to the ground terminal on the timer module for continuous grounding.

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Video: An official product video demonstrating the features and internal components of the GE 15163 120VAC Mechanical Timer Switch, including the screw terminals and 24-hour dial.

Operation

1. Setting the Current Time

The timer dial represents a 24-hour cycle. To set the current time:

1. Gently turn the mechanism dial counter-clockwise until the current time aligns with the "SET" arrow on the timer.
2. Ensure AM/PM is correctly observed (e.g., 3 PM is 15 on a 24-hour dial).

2. Setting ON/OFF Trippers

The timer uses ON and OFF trippers to activate and deactivate the connected equipment. One set of trippers is included.

1. Locate the ON (typically green or blue) and OFF (typically red) trippers.
2. Insert the ON tripper into the desired "ON" time slot on the outer edge of the dial.
3. Insert the OFF tripper into the desired "OFF" time slot.
4. Ensure the trippers are securely fastened by tightening their screws. Loose trippers may shift and cause incorrect operation.
5. The timer will activate the connected equipment when the dial reaches the ON tripper and deactivate it when it reaches the OFF tripper.

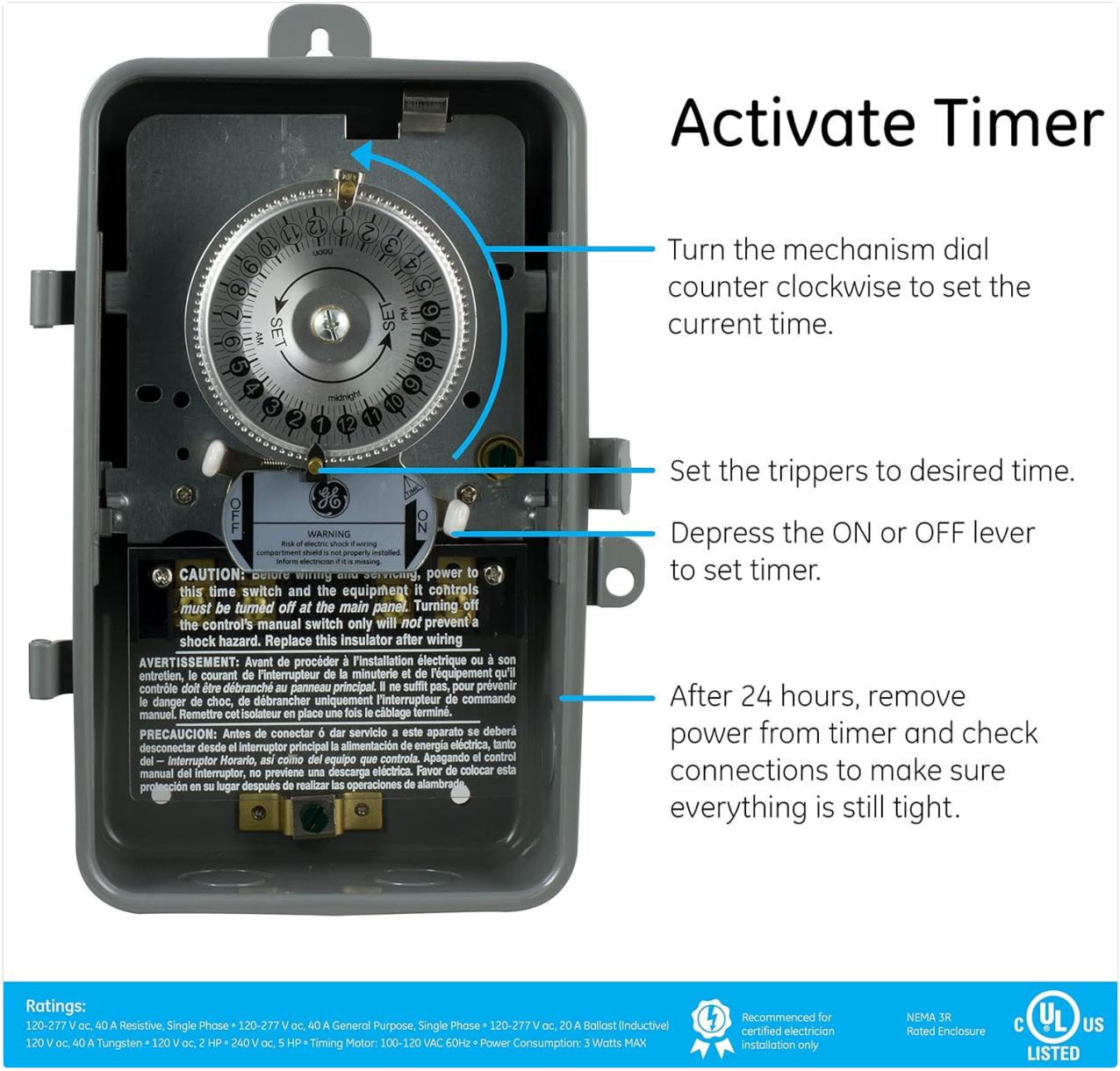

Image: A visual guide demonstrating how to set the current time on the dial and position the ON/OFF trippers for scheduled operation.

3. Manual Override Switch

A manual override switch is provided for temporary control of the connected equipment without altering the programmed schedule.

- To manually turn the equipment ON or OFF, simply toggle the override switch.
- The timer will resume its programmed schedule at the next ON or OFF tripper event.

Maintenance

- **Regular Inspection:** Periodically inspect the timer switch and its wiring for any signs of wear, damage, or corrosion.
- **Tripper Security:** Over time, the ON/OFF trippers may loosen. Regularly check that they are securely fastened to prevent them from shifting and affecting the schedule. Tighten screws as needed.
- **Enclosure Integrity:** Ensure the NEMA 3R enclosure remains sealed and free from damage to maintain its rainproof and tamper-resistant properties.
- **Cleaning:** Clean the exterior of the enclosure with a damp cloth. Do not use abrasive cleaners or allow moisture to enter the internal components.

- **Professional Check:** For any internal issues or complex repairs, consult a qualified electrician.

Troubleshooting

Problem	Possible Cause	Solution
Timer does not turn ON/OFF at scheduled times.	◦ Trippers are loose or incorrectly positioned. ◦ Current time is not set correctly. ◦ Power supply issue. ◦ Internal mechanism fault.	◦ Check and securely fasten ON/OFF trippers. Verify their positions. ◦ Re-set the current time on the dial. ◦ Check circuit breaker and wiring connections. ◦ If issues persist, consult a qualified electrician.
Equipment remains ON or OFF continuously.	◦ Manual override switch is engaged. ◦ Trippers are missing or damaged. ◦ Internal switch contacts are stuck.	◦ Disengage the manual override switch. ◦ Ensure both ON and OFF trippers are present and correctly installed. ◦ Consult a qualified electrician for inspection and repair.
Timer mechanism is not moving.	◦ No power to the timer. ◦ Motor failure within the timer.	◦ Check power supply and wiring. ◦ If power is present, the timer may require replacement. Consult a qualified electrician.

Warranty and Support

For warranty information or technical support regarding your GE 15163 24-Hour Mechanical Timer Switch, please refer to the documentation provided at the time of purchase or contact GE customer service.

GE Customer Service:

- Please visit the official GE website for contact details.
- Have your model number (15163) and purchase date available when contacting support.