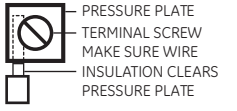
Quick Start Guide

Commonly Used Tools
- Phillips Head Screwdriver
- Flat Head Screwdriver
- Hammer
- Wire Cutter/Stripper

Supplied Hardware
- #10 Screw (3)
- #10 Drywall Anchors

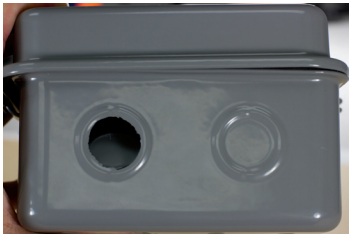
MIN. COPPER WIRE SIZE (AWG)	MAX LOAD (AMP)	MINIMUM INSULATION TEMP (°C)	
14	15	60	
12	20	60	
10	30	60	
8	40	105	
USE CORRECT GAUGE WIRE PER LOCAL ELECTRICAL CODE			

⚠ WARNING

- Recommended installation by licensed electrician.
- High Voltage (There may be more that one source of supply) disconnect all power sources before servicing.
- Risk of electric shock – All terminals are live.
- Use copper wire only.
- Close the cover after setting.
- Tighten connections to 25 lbf-in.
- Use correct gauge wire (8-14 AWG) based on local electrical code of at least 105C rating.
- Approved for outdoor use.
- Wire strip length ½"
- GROUNDING: National Electrical Code requires that grounding must be continuous and in proper electrical contact in all grounding conductors, metallic conduits and grounding terminals.

Knockouts

Each metal box comes with ½ " and ¾" knockouts. Follow the pictures below to remove knockouts.



For ½" knockout place small blade screw driver as pictured above. Tap lightly to punch knockout loose.

For ¾" knockout first use screwdriver to punchout ½" knockout then use pliers to remove outer ring.

Final result of ¾" knockout

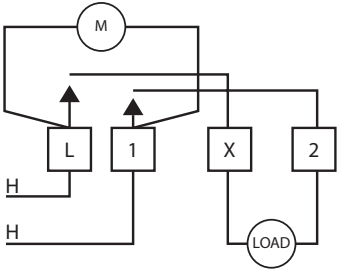
Mounting the timer

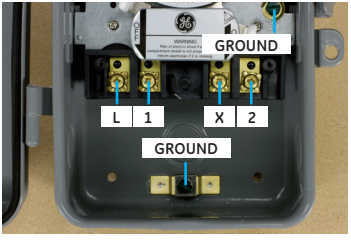
1. Select the location for the timer and use the three holes provided for mounting.

2. Remove module from timer box. Hold the timer box in place and mark the holes on the mounting surface.

3. If mounting to drywall:
   a. Drill a 3/16" size hole for the drywall anchors at the marked locations
   b. Insert an anchor in each hole gently tap the open end of anchor with a hammer until the anchor is almost flush with the wall.
   c. Mount the timer to the anchors using the supplied screws.
4. If mounting to plywood drill a 3/32" size hole for each screw and mount the timer to the surface using the supplied screws.

240 VAC Setup: Timer Motor & Load same voltage





Typical for same voltage in LOAD and MOTOR

Connections:
L- Line Input to Timer Motor and Switch 1
1-Line Input to Timer Motor and Switch 2
X-Line Output of time Switch 1
2-Line Output of Time Switch 2

⚠WARNING

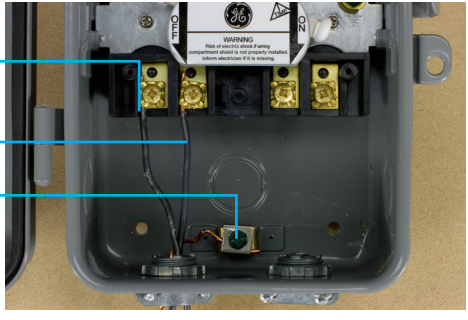
- Recommended installation by licensed electrician.
- High Voltage (There may be more that one source of supply) disconnect all power sources before servicing.
- Risk of electric shock – All terminals are live.
- Use copper wire only.
- Close the cover after setting.
- Tighten connections to 25 lbf-in.
- Use correct gauge wire (8-14 AWG) based on local electrical code of at least 105C rating.
- Approved for outdoor use.
- Wire strip length ½”
- GROUNDING: National Electrical Code requires that grounding must be continuous and in proper electrical contact in all grounding conductors, metallic conduits and grounding terminals.

Step 1: Remove Plastic Guard

Remove screws using a Philips Head screwdriver and keep them to the side. Carefully remove plastic guard and also keep to the side.

Step 2: Connect the Input/Clock Motor Voltage

1. Connect 240VAC Line 1 (Black) input to Terminal L.
2. Connect 240VAC Line 2 (Black) input to Terminal 1.
3. Connect the bare wire to the ground lug.

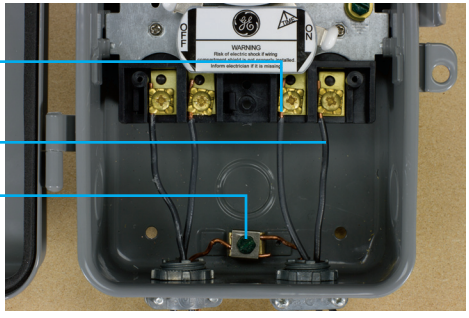


Tighten the screw terminals to 25in-lb.

Improper tightening can cause heating and equipment failure.

Step 3: Complete the circuit to the load

1. Connect 240VAC Line 1 (Black) of Load to Terminal L.
2. Connect 240VAC Line 2 (Black) of Load to Terminal 1.
3. Connect the bare wire to the ground lug.



Tighten the screw terminals to 25in-lb.

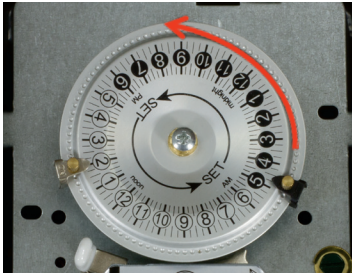
Improper tightening can cause heating and equipment failure.

Step 4: Reinstall the Plastic Guard

Install both screws with the plastic guard facing the original position.

Step 5: Activate Timer

1. Turn the mechanism dial counter clockwise to set the current time as accurately as possible.
2. After wiring and setting the timer with the ON/OFF trippers in the correct timer positions. Be sure to depress the ON or OFF lever to set the timer to the desired state. The timer will turn ON or OFF at the next programmed time.
3. You cannot see the dial turning. Wait at least 30 minutes after the set ON or OFF time to verify the timer is operating properly.



Step 6: Check timer after 24 hours

1. After 24 Hours, remove power from the timer and check the connections:
   a. Remove plastic guard
   b. Verify all screws and connections are still firmly tightened.
   c. It is possible that after your initial tightening, the wire has compressed and loosened the connections.
2. After making sure everything is still tight, replace the plastic guard and restore power to the timer.

*Please review “Operating Instructions” in the user manual.

Special Note for Plastic Guard on the back of the motor

On the back of the motor there is a plastic guard for “Input” side connections. It snaps easily in and out of place. If the guard has come off during shipment or installation, reinstall by placing the two tabs at the bottom in the appropriate slots.