

## GE TL240RCUP

# GE 40 Amp Surface Mount Load Center Instruction Manual

Model: TL240RCUP

## 1. PRODUCT OVERVIEW

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The GE 40 Amp Surface Mount Load Center is a robust electrical panel designed for efficient and safe power distribution. This single-phase, three-wire unit operates at 120/240 volts AC and is rated for 40 Amps. It features a durable galvanized box and a sturdy copper bus for increased reliability. The design prioritizes ease of installation with a one-piece interior, full-length neutrals, and combination slotted/Robertson screws.

This load center is capable of accommodating up to four circuits, accepting GE Q Line circuit breakers, including the 1/2" THQP type. Its compact dimensions make it suitable for various surface mount applications.

## 2. SAFETY INFORMATION

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**WARNING: Risk of electric shock or fire. Installation and servicing of this electrical equipment should only be performed by qualified, licensed electricians. Always disconnect power at the main service panel before working on or near this load center.**

- Ensure all local and national electrical codes are followed during installation.
- Verify that the supply voltage and current rating match the load center's specifications (120/240V AC, 40 Amps).
- Use only approved circuit breakers and wiring materials.
- Do not install in wet or damp locations unless specifically rated for such environments (this model is raintight).
- Keep the load center door closed and secured when not servicing.

## 3. SETUP AND INSTALLATION

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This GE load center is designed for surface mounting. Follow these general steps for installation:

1. **Preparation:** Ensure the mounting surface is flat, stable, and capable of supporting the load center's weight. Mark the mounting points accurately.
2. **Mounting:** Securely attach the load center to the prepared surface using appropriate fasteners. The unit's dimensions are approximately 7-1/4"W x 10"H x 3-3/4"D.

### 3. **Wiring:**

- The one-piece interior can be easily removed and reinstalled to facilitate wiring.
- Utilize the full-length neutrals for simplified wiring connections.
- All holes are rated for 14-4 wire.
- Connect incoming power lines to the main lugs.
- Install Q Line circuit breakers into the available spaces. The load center offers (2) 1" spaces or (4) 1/2" spaces.
- Connect branch circuit wires to the appropriate circuit breakers and the neutral/ground bars.
- Tighten all connections using combination slotted/Robertson screws to the specified torque values.

4. **Final Checks:** Before restoring power, double-check all wiring for correct connections, proper insulation, and secure terminations.



Figure 1: GE 40 Amp Surface Mount Load Center with its protective cover open, revealing the internal bus bars, neutral bar, and slots for circuit breakers. This view highlights the accessible wiring area and the robust construction of the panel interior.

#### **4. OPERATING INSTRUCTIONS**

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Once properly installed and wired, the GE 40 Amp Surface Mount Load Center functions as the central distribution point for electrical circuits in your system. Circuit breakers installed within the panel protect individual circuits from

overcurrents and short circuits.

- **Circuit Breaker Operation:** To turn a circuit ON, push the breaker handle firmly to the 'ON' position. To turn a circuit OFF, push the handle to the 'OFF' position.
- **Tripped Breaker:** If a circuit breaker trips (moves to a central or 'OFF' position), it indicates an overload or short circuit. Before resetting, identify and resolve the cause of the trip. To reset, push the handle firmly to the 'OFF' position first, then to the 'ON' position.
- **Labeling:** Clearly label each circuit breaker to identify the specific area or appliance it controls. This is crucial for safety and maintenance.

## 5. MAINTENANCE

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Regular maintenance helps ensure the safe and reliable operation of your load center. Always disconnect power before performing any maintenance.

- **Periodic Inspection:** Annually inspect the load center for any signs of wear, corrosion, loose connections, or damage.
- **Cleanliness:** Keep the interior of the load center clean and free from dust, debris, and moisture. Use a dry, non-conductive brush or vacuum.
- **Ventilation:** Ensure that the area around the load center is clear and allows for proper air circulation to prevent overheating.
- **Tighten Connections:** Periodically check and re-tighten all electrical connections, including those at the main lugs, circuit breakers, and neutral/ground bars, to prevent arcing and overheating.

## 6. TROUBLESHOOTING

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For any electrical issues, it is highly recommended to consult a qualified electrician. The following are general troubleshooting tips:

- **No Power to a Circuit:** Check if the corresponding circuit breaker is in the 'ON' position. If tripped, reset it after identifying and correcting the cause.
- **Frequent Breaker Tripping:** This often indicates an overloaded circuit or a short circuit. Reduce the load on the circuit or investigate for faulty wiring/appliances.
- **Burning Smell or Discoloration:** Immediately disconnect power and contact a qualified electrician. This indicates a serious electrical fault.
- **Loose Connections:** If you suspect loose connections (e.g., flickering lights), have an electrician inspect and tighten all terminals.

## 7. SPECIFICATIONS

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Attribute	Value
Brand	GE
Model Number	TL240RCUP
AC Adapter Current	40 Amps
Voltage	120/240 Volts AC
Phase Type	Single Phase

Attribute	Value
Number of Circuits	4
Material	Copper (Bus)
Item Weight	6 pounds
Product Dimensions (L x W x H)	10.8 x 8.5 x 4.8 inches (Packaging) / 7-1/4"W x 10"H x 3-3/4"D (Unit)
Manufacturer	GE Electric
UPC	783164396744

## 8. WARRANTY AND SUPPORT

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For information regarding the warranty of your GE 40 Amp Surface Mount Load Center, please refer to the documentation provided at the time of purchase or contact GE Electric directly. Support resources, including technical assistance and service information, can typically be found on the official GE Electric website or by contacting their customer service department.