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Schneider Electric HOMCGK2C

Square D HOMCGK2C Homeline Generator Interlock Kit

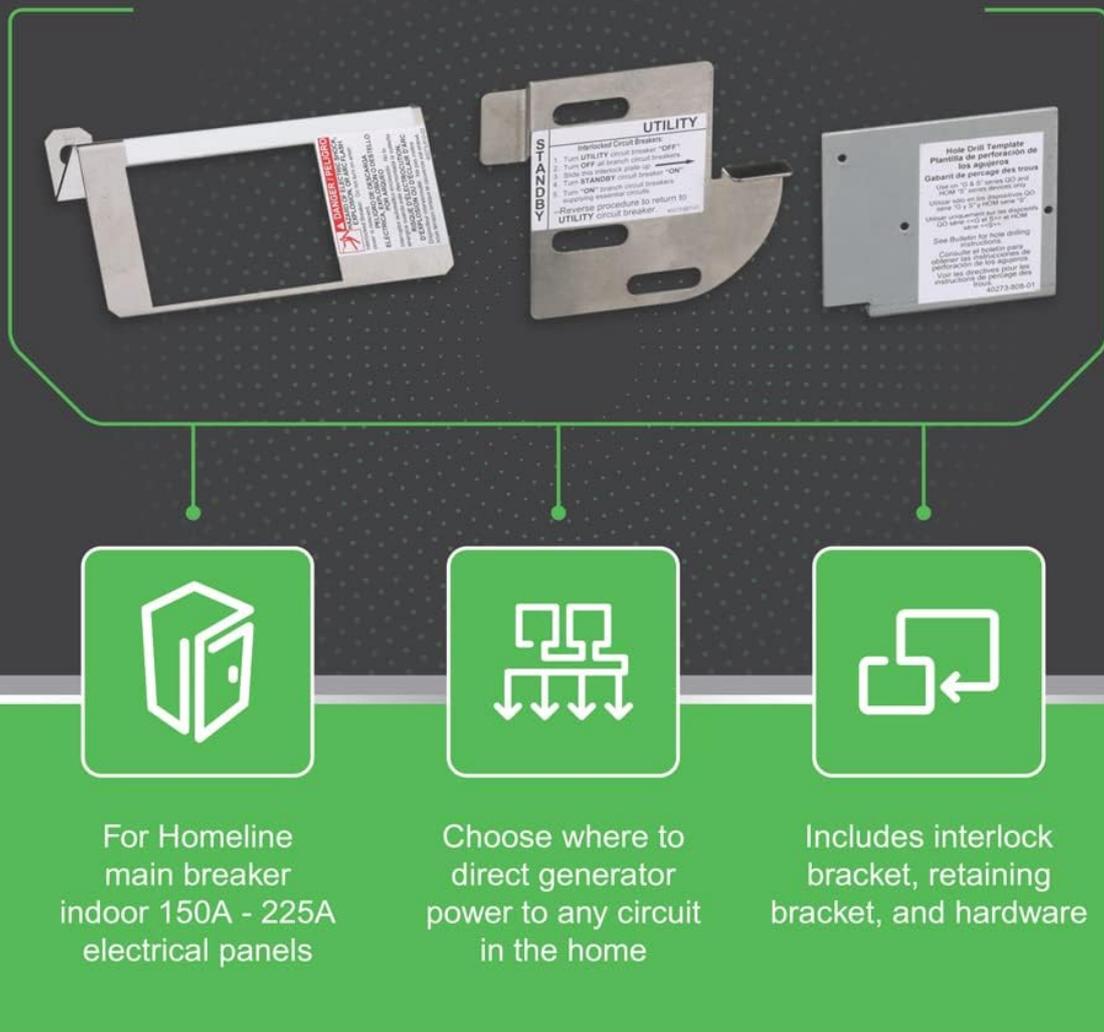
Model: HOMCGK2C | **Brand:** Schneider Electric

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Square D HOMCGK2C Homeline Cover Generator and QOM2 Frame Size Main Breaker Interlock Kit. This kit is designed to safely interlock the QOM1 or QOM2 main breaker with a 2-pole breaker back-fed from a generator, ensuring that utility power and generator power cannot be active simultaneously. It is intended for use on indoor Homeline 150A - 225A Main Breaker Load Centers.

The HOMCGK2C interlock kit allows you to direct generator power to any circuit within your home without requiring a separate generator panel, enhancing safety and convenience during power outages.

MFG Model Number
HOMCGK2C



For Homeline
main breaker
indoor 150A - 225A
electrical panels

Choose where to
direct generator
power to any circuit
in the home

Includes interlock
bracket, retaining
bracket, and hardware

Figure 1: Overview of the HOMCGK2C Interlock Kit components and their primary functions. This image illustrates the interlock bracket, retaining bracket, and hardware, highlighting their purpose in enabling generator power to specific circuits within the home.

2. SAFETY INFORMATION

WARNING: Installation of this interlock kit involves working with high voltage electricity. Improper installation can result in serious injury, death, or property damage. This product must be installed by a qualified electrician in accordance with all applicable electrical codes and regulations.

- Always turn off the main breaker and verify that power is disconnected before beginning any work on the electrical panel.
- Use appropriate personal protective equipment (PPE), including insulated gloves and eye protection.
- Ensure the generator is properly grounded.
- Never operate the interlock kit in a manner that allows both utility and generator power to be connected to the load center simultaneously. This interlock kit is designed to prevent such an occurrence.
- Do not modify the interlock kit or any components of the electrical panel.

Consult the National Electrical Code (NEC) and local building codes for specific requirements in your area.

3. PACKAGE CONTENTS

Verify that all components are present and undamaged before proceeding with installation.

- Interlock Bracket
- Retaining Bracket
- 1-Hole Drilling Template
- 3 Hex Nuts
- (3) 10-32 Shoulder Screws
- (1) Interior Mounting Screw
- Installation Instructions (this manual)



Figure 2: All components included in the HOMCGK2C kit. This image displays the interlock bracket, retaining bracket, and the drilling template, along with the associated hardware, as they appear when unboxed.

4. SETUP AND INSTALLATION

This interlock kit is designed for use with Homeline 150A - 225A Main Breaker Load Centers. Ensure your panel is compatible before proceeding.

Compatible products

Homeline 150-225 Amp Load Center Indoor Generator Interlock Kit

MFG Model Number: HOMCGK2C



Compatible with any Homeline Indoor
Main Breaker Load Center with at least
150-225A Main Breaker



Figure 3: Visual representation of compatible Homeline load centers. This image confirms that the HOMCGK2C kit is compatible with Homeline 150-225 Amp Main Breaker Load Centers, showing an example of a compatible panel.

4.1 Pre-Installation Steps

1. **De-energize the Panel:** Locate the main service disconnect for your home and turn it OFF. Verify zero voltage at the load center using a multimeter.
2. **Remove Panel Cover:** Carefully remove the cover of your Homeline load center.
3. **Identify Breaker Locations:** The interlock kit requires the main breaker (utility) and the generator back-fed breaker to be in specific positions. Typically, the generator breaker will be positioned directly below the main breaker. You may need to rearrange existing breakers to accommodate this configuration.

4.2 Drilling and Mounting

1. **Position Drilling Template:** Place the provided 1-hole drilling template on the load center cover, aligning it according to the detailed instructions included with the physical product. The template ensures precise placement for the interlock mechanism.
2. **Drill Hole:** Using an appropriate drill bit (refer to the template for size), carefully drill the required hole through the load center cover. Deburr the edges of the hole.
3. **Attach Interlock Bracket:** Secure the interlock bracket to the load center cover using the provided

hex nuts and shoulder screws, passing them through the newly drilled hole and existing slots. Ensure the bracket moves freely and correctly engages with the breaker handles.

4. **Attach Retaining Bracket:** Install the retaining bracket inside the load center, if applicable, using the interior mounting screw. This bracket helps secure the interlock mechanism.

4.3 Final Assembly

1. **Reinstall Panel Cover:** Carefully reattach the load center cover, ensuring no wires are pinched and all screws are tightened securely.
2. **Test Interlock Operation:** With the panel still de-energized, manually test the interlock mechanism. Verify that when the main breaker is ON, the generator breaker cannot be turned ON, and vice-versa. The sliding mechanism should move smoothly.
3. **Re-energize Panel:** Once satisfied with the installation and testing, restore power to the main service disconnect.

5. OPERATING INSTRUCTIONS

The HOMCGK2C interlock kit ensures safe transfer between utility and generator power. Follow these steps for proper operation:

5.1 Transferring to Generator Power

1. **Turn OFF Main Breaker:** Locate your main utility breaker (typically at the top of the panel) and switch it to the OFF position. The interlock mechanism will now allow the generator breaker to be turned ON.
2. **Start Generator:** Start your portable generator according to its manufacturer's instructions. Allow it to stabilize.
3. **Connect Generator:** Plug your generator's power cord into the appropriate inlet box connected to your generator back-fed breaker.
4. **Turn ON Generator Breaker:** Switch the generator back-fed breaker to the ON position. Power from the generator will now be supplied to your selected circuits.
5. **Manage Loads:** Turn on circuits gradually to avoid overloading the generator.

5.2 Transferring to Utility Power

1. **Turn OFF Generator Breaker:** Switch the generator back-fed breaker to the OFF position.
2. **Disconnect Generator:** Unplug the generator's power cord from the inlet box.
3. **Shut Down Generator:** Turn off your portable generator according to its manufacturer's instructions.
4. **Turn ON Main Breaker:** Switch the main utility breaker to the ON position. Utility power will now be restored to your home.

6. MAINTENANCE

The Square D HOMCGK2C Interlock Kit requires minimal maintenance. Regular inspection is recommended to ensure continued safe operation.

- **Annual Inspection:** At least once a year, or after any significant electrical event (e.g., power surge, short circuit), visually inspect the interlock mechanism.
- **Check for Damage:** Look for any signs of physical damage, corrosion, or loose components on the interlock bracket, retaining bracket, and associated hardware.
- **Test Operation:** Periodically test the interlock mechanism by attempting to turn both the main and

generator breakers ON simultaneously (with power OFF for safety, then with power ON to observe the physical block). The mechanism should prevent both from being ON at the same time.

- **Cleaning:** If necessary, gently wipe the interlock mechanism and surrounding area with a dry, lint-free cloth. Do not use liquid cleaners or solvents.

If any damage is observed or the interlock mechanism does not operate smoothly, discontinue use and contact a qualified electrician for inspection and repair or replacement.

7. TROUBLESHOOTING

This section addresses common issues you might encounter with the HOMCGK2C Interlock Kit.

Problem	Possible Cause	Solution
Interlock mechanism is stiff or not moving freely.	Misalignment during installation, debris, or minor damage.	Ensure all screws are properly tightened but not overtightened. Inspect for debris and clean. If problem persists, consult a qualified electrician.
Cannot turn on generator breaker after turning off main breaker.	Main breaker not fully in OFF position, or interlock mechanism is obstructed.	Ensure main breaker is firmly in the OFF position. Check for any physical obstructions preventing the interlock slide from moving.
Cannot turn on main breaker after turning off generator breaker.	Generator breaker not fully in OFF position, or interlock mechanism is obstructed.	Ensure generator breaker is firmly in the OFF position. Check for any physical obstructions preventing the interlock slide from moving.
Power not transferring to circuits from generator.	Generator not running, generator breaker not ON, or issue with generator connection.	Verify generator is running and producing power. Ensure generator breaker is ON. Check all connections from generator to inlet box and to the panel.

For issues not listed here or if troubleshooting steps do not resolve the problem, contact a qualified electrician or Schneider Electric customer support.

8. SPECIFICATIONS

Attribute	Detail
Model Number	HOMCGK2C
Brand	Square D by Schneider Electric
Compatibility	Homeline 150A - 225A Main Breaker Load Centers (Indoor)
Breaker Type	HOM (Homeline)
Amperage Capacity	Up to 225 Amps
Product Dimensions	4.3 x 3.2 x 1.98 inches
Item Weight	9.1 ounces

Attribute	Detail
Poles	2 (for generator breaker)
Date First Available	May 7, 2013



Figure 4: Product dimensions and packaging. This image provides a visual representation of the kit's physical dimensions, including height, width, and depth, which can be useful for planning installation space.

Generator Interlock Kit				
Brand	Amp Rating	Catalog #	Indoor/Outdoor	UPC Code
QO	100-125A	QOCRBGK1C	Indoor - Outdoor	7-85901-61092-2
QO	150-225A	QOCGK2C*	Indoor	7-85901-48900-9
QO	150-225A	QORBGK2C	Outdoor	7-85901-61679-5
Homeline	100-125A	HOMCRBGK1C	Indoor-Outdoor	7-85901-59843-5
Homeline	150-225A	HOMCGK2C*	Indoor	7-85901-94050-0
Homeline	150-225A	HOMRBGK2C	Outdoor	7-85901-23316-9

*Exceptions: Older Series 51 Outdoor

Figure 5: Compatibility chart for various generator interlock kits. This table lists different Square D and Homeline generator interlock kits, their amp ratings, indoor/outdoor suitability, and catalog numbers, helping to confirm the HOMCGK2C's place within the product line.

9. WARRANTY AND SUPPORT

For warranty information and technical support, please contact Schneider Electric customer service. Keep your purchase receipt as proof of purchase.

- **Manufacturer:** Square D by Schneider Electric
- **Website:** www.se.com/us/en/
- **Customer Service:** Refer to the Schneider Electric website for the most current contact information, including phone numbers and online support options.

It is recommended to register your product on the manufacturer's website to receive updates and facilitate warranty claims.

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