INTRODUCTION *INTERLOCK* KIT K-5010

This manual provides instructions for safe installation of the *InterLock* Kit onto a **Square-D panel**. The back plate sits securely on the face of the panel cover while allowing the front plate to slide between the main and generator breaker positions. The *InterLock* Kit will only allow one of these breakers to be in the "ON" position meeting the requirements of Article 702 of the National Electric Code ANSI/NFPA 70. The installation of the breaker retaining strap meets Article 408.36 (NEC 2008).

SAFETY PRECAUTIONS – IMPORTANT SAFETY INSTRUCTIONS

WARNING: HAZARD OF ELECTRIC SHOCK OR EXPLOSION

- This kit must be installed and serviced only by qualified electrical personnel
- Turn off all power supplying the equipment where this kit will be installed before working on or inside the equipment
- Always use a properly rated voltage sensing device to confirm that all power is off
- Replace all devices, doors, and covers after installing this kit before turning on power to the equipment
- Always wear safety eyewear while drilling or working around electrical equipment

FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN SERIOUS INJURY OR DEATH

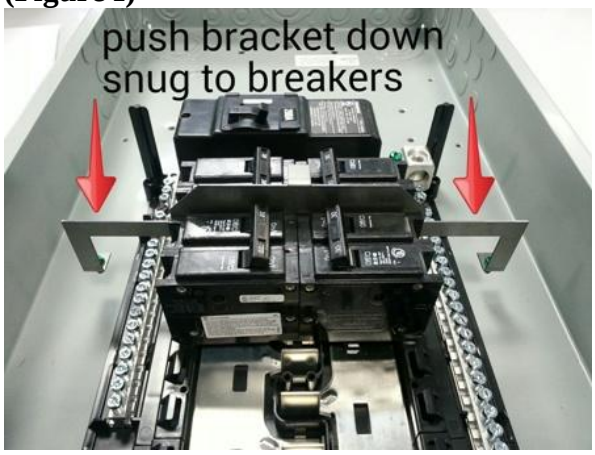
SAFE THESE INSTRUCTIONS

INSTALLATION INSTRUCTIONS

1) Disconnect power to the panel
2) Separate plates. Remove backing from double stick tape. Align back plate (BP-5010) with the top of the first and second breaker slot (1, 2 slot) on front of panel cover and under opening for main breaker. (Do not drill holes at this time)
3) Remove panel cover
4) Relocate breakers from slots 2 and 4 (top 2 spaces of the right breaker column) utilizing piggyback breakers as necessary to create the needed spaces
5) Install generator breaker in the 2,4 slot.
6) Slide the breaker retainer (R-1001) between breakers 3, 4 and breakers 5, 6 with the tab pointing toward main breaker to land on breakers 3, 4. Mark hole locations on back of panel. Temporarily remove the breaker retainer and using drill bit (D-1004) provided, drill holes slightly through the back of the panel. Re-insert breaker retainer and fasten to the panel using the two self-tapping bonding screws (S-2001) provided. (**See figure I, II, and III**).

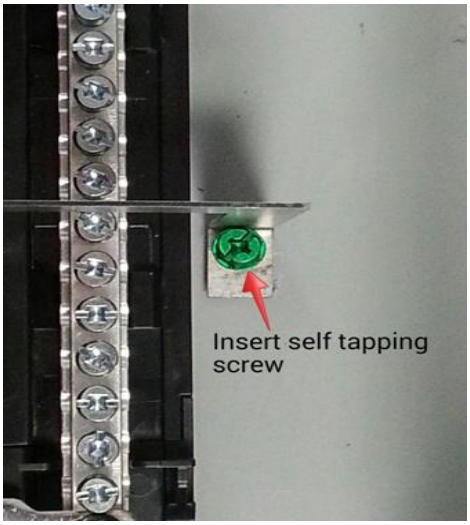
7) On suitable surface use included 11/64 drill bit (D-1004) to drill out holes in the panel cover through the predrilled holes in the back plate (BP-5010)
8) Use file to smooth surface around holes and remove the burrs on back of panel cover. **On the back of the panel cover file away paint to allow entire screw head to sit with metal to metal contact.** The binder screws (B-1003) must sit flush with the back of the panel cover
9) Insert binder screws (B-1003) through the back of the panel cover, back plate (BP-5010), and front plate (FP-5010). Use the binder post (B-1002) to attach to front of binder screws (B-1003). Handhold binder post (B-1002) while using screwdriver to tighten the binder screws (B-1003). The front plate should slide easily and the back plate should sit firmly. Be careful not to over-tighten.
10) Set generator and main breakers in the "OFF" position and reattach panel cover
11) With the panel cover firmly in place test the *InterLock* to make sure that it transfers easily between positions. BOTH BREAKERS SHOULD NOT BE ABLE TO BE IN THE "ON" POSITION AT THE SAME TIME. Even with moderate pressure you should not be able to engage both breakers at once.
12) Apply thread lock (T-1005) to all three binder posts (B-1002) as per instructions included with the thread lock
13) Attach labels as shown in **Figure IV**
14) Reconnect power to the panel
15) **See Figure V** to view the function of the Interlock Kit once retrofitted properly.

(Figure I)

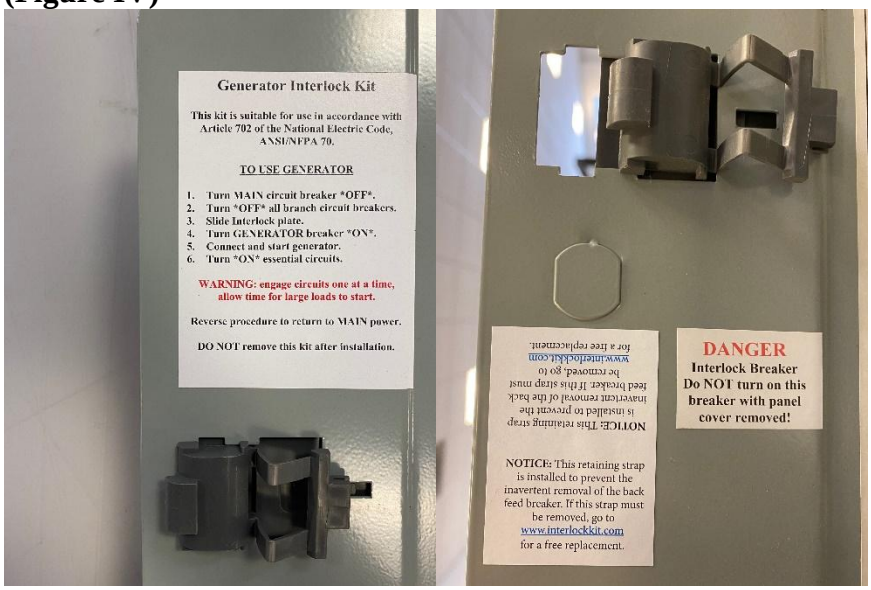


(Figure II)

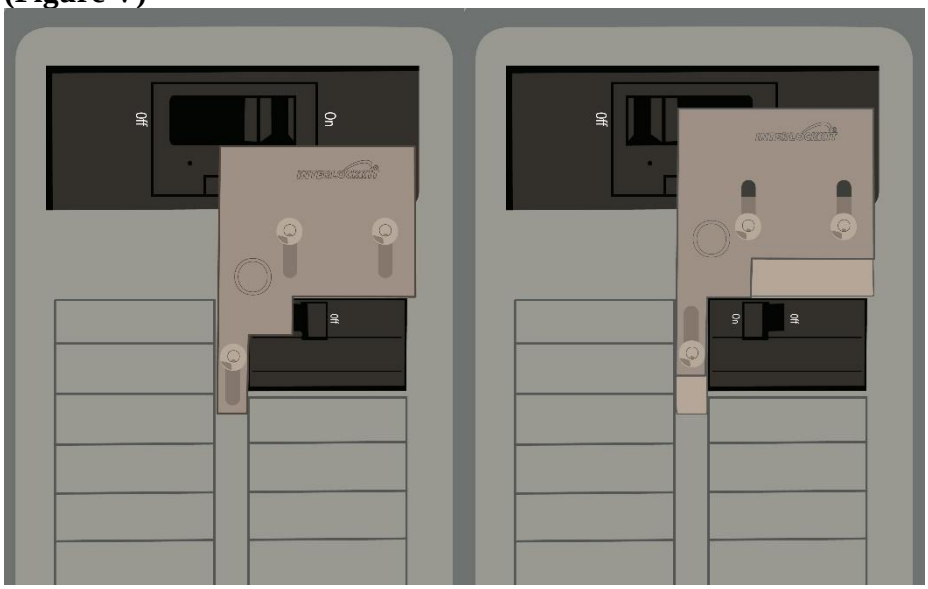
(Figure III)



(Figure IV)



(Figure V)



Main Breaker ON Generator Breaker ON

KIT CONTENTS

Description	Quantity	Part #
Back plate	1	BP-5010
Front plate	1	FP-5010
Binder post	3	B-1002
Binder screw	3	B-1003
Drill bit 11/64	1	D-1004
Thread lock pipette	1	T-1005
Instruction booklet	1	IB-5010
Main label	1	L-1006
DANGER label	1	L-1007
Generator label	1	L-1008
Instructions label	1	L-1009
Breaker Retainer	1	R-1001
Self Tapping Screw	2	S-2001

TOOLS NEEDED TO INSTALL

- Drill or cordless drill
- Flathead screwdriver
- Metal file
- Accurate voltage sensor

CONTACTING US

You can contact us by phone at (804) 726-2448 or by fax at (804) 231-1984
Questions or comments:
questions@interlockkit.com

OPERATION INSTRUCTIONS

TO SWITCH OPERATION FROM MAIN TO GENERATOR

1) Turn main breaker to the “OFF” position
2) Turn all branch circuits to the “OFF” position
3) Slide *InterLock* plate up
4) Connect and start generator
5) Turn generator breaker to the “ON” position
6) Turn on essential circuits one at a time **WARNING:** Allow appliances to start before engaging next circuit

TO RETURN TO MAIN POWER REVERSE PROCEDURE

STATEMENT OF LIABILITY

Electrical equipment should be installed, operated, serviced, and maintained by qualified personnel. No responsibility is assumed by Generator InterLock Technologies, LLC for any consequences arising out of the misuse of this material.

CLASSIFIED TO UL 67 with Respect to installation and mechanical operation only