

INSTRUCTION MANUAL



KEPCO An ISO 9001 Company.

**BOP 1000W
RETROFIT
KIT 219-0546**

BOP 1000W FIRMWARE RETROFIT KIT

1. DESCRIPTION

Kepeco KIT 219-0546 contains a PROM used to upgrade the firmware for BOP 1000W power supplies.

CAUTION: This upgrade is MANDATORY. This upgrade corrects a firmware problem that will eventually cause the power supply to stop functioning.

2. APPLICABILITY

This KIT applies to all BOP 1000W models manufactured between February 2009 and April 2010.

The firmware IC provided in this kit has been pre-configured for a particular unit. The serial number of the unit is added to part number of the kit to indicate the unit to which the kit applies.

3. INSTALLATION INSTRUCTIONS

3.1 MATERIAL REQUIRED (See Table 1.)

TABLE 1. MATERIAL REQUIRED

MATERIAL	LOCATION	QUANTITY
• PROM U24: Replaces U24 in Digital Board A1.	Provided in this Kit	1
• Instruction Manual (Kepeco P/N 228-1742)	Provided in this Kit	1
• ESD (Electrostatic Discharge) wrist strap (Kepeco P/N 114-0080)	Provided in this Kit	1
• IC Extractor (Kepeco P/N 114-0079)	Provided in this Kit	1

3.2 PRELIMINARY PROCEDURE

A pre-configured chip is provided, verify the serial number of the unit matches the serial number of the kit (KIT 2190546-[serial number]). **CAUTION: Installing the chip in a unit with a different serial number can damage the unit and void the warranty.**

3.3 DISASSEMBLY PROCEDURE

1. Turn power off, disconnect the unit from source power and remove line cord.
2. Remove the two mounting ears from the chassis by removing three screws from each.
3. Remove the top cover of the unit by removing 14 screws as follows: two at top of the front panel, four at each side, (one towards the rear, three at the bottom) and four at the top of the rear panel.

3.4 DIGITAL BOARD A1 COMPONENT REPLACEMENT (SEE FIGURE 1)

1. On Digital board A1, locate PROM, U24 (see Figure 1).

CAUTION: FAILURE TO USE THE ESD WRIST STRAP MAY DAMAGE THE PROM!

2. Take the ESD wrist strap from kit and use the peel and stick area to connect the wrist strap to the chassis of the BOP. Place the wrist strap on your arm as indicated by the instructions for the wrist strap.

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3. Touch the IC tube to the chassis of the BOP. Open one end.
4. Pry out the PROM U24 using an IC extractor. Insert the hook, first into one slot and then the other, and gently pry out the PROM. Place the PROM in the tube and close the tube.
5. Open the other end of the IC tube and remove the replacement PROM U24 from the tube.
6. Insert the PROM into the socket, insuring the dot on the chip is oriented as shown in Figure 1.
7. Reclose the IC tube. Remove wrist strap and disconnect it from the BOP chassis.

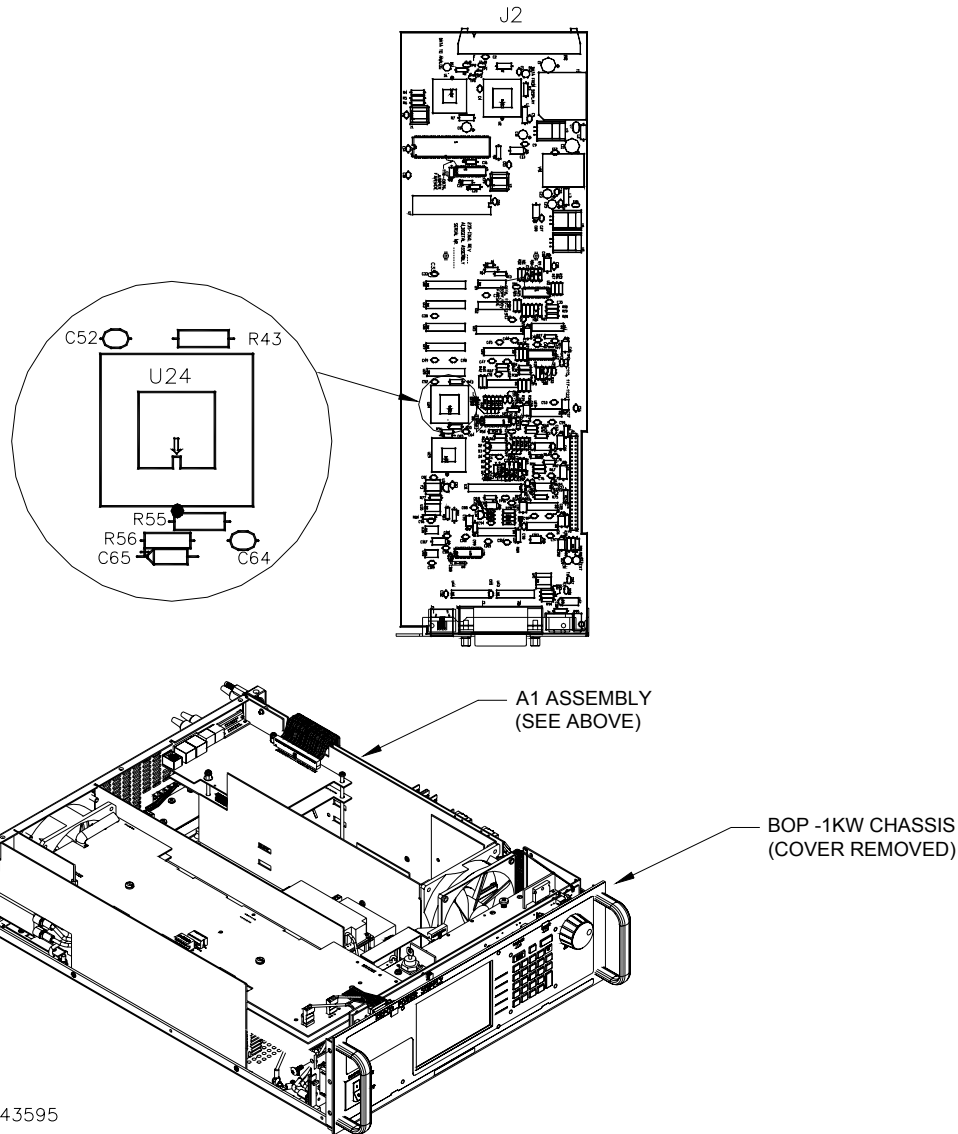


FIGURE 1. DIGITAL BOARD A1 PROM LOCATION

3.5 REASSEMBLY

1. Attach the cover to the chassis using 14 screws.
2. Attach the two mounting ears to the chassis using three screws for each.
3. Install the power cord and connect the unit to source power.