

INSTRUCTION MANUAL



KEPCO An ISO 9001 Company.

**KLP
RETROFIT
KIT 219-0538**

KLP FIRMWARE RETROFIT KIT

1. DESCRIPTION

Kepeco KIT 219-0538 contains the PROM used to upgrade the firmware for KLP 1200W power supplies from Version 7.xx to Version 8.xx which offers the following improvements: a) baudrate is extended to 38500 (default), b) simplified local configuration menu with added options, c) new fault recovery options, d) user-selectable remote inhibit polarity, e) both standard (-1200) and LAN (-1.2K) models supported, f) original Operator Manual is replaced by a CD that contains expanded KLP documentation, including a KLP Quick Start Manual, User Manual, Developer's Guide and Labview and IVI drivers.

2. INSTALLATION INSTRUCTIONS

2.1 MATERIAL REQUIRED (SEE TABLE 1.)

TABLE 1. MATERIAL REQUIRED

MATERIAL	LOCATION	QUANTITY
• PROM Replaces U7 on Circuit Card Assembly (CCA) A4 NOTE: PROMs are supplied preprogrammed with factory calibration files and are identified by unit serial number on the device.	Provided in this Kit	1
• ESD (Electrostatic Discharge) wrist strap (Kepeco P/N 114-0080)	Provided in this Kit	1
• PLCC PROM Extractor (Kepeco P/N 114-0079)	Provided in this Kit	1
• Instruction Manual 228-1653	Provided in this Kit	1
• Documentation CD 254-0033	Provided in this Kit	1

2.2 DISASSEMBLY PROCEDURE

1. Disconnect all source power, load and programming cables from the power supply. If recently powered, allow at least two minutes for the internal circuitry to discharge fully before removing the cover.
2. Note the serial number of the power supply on the nameplate located on bottom surface of the power supply chassis.
3. Find a clean work surface with sufficient area to work on the power supply (an ESD-protected work surface is ideal).
4. Place the wrist strap on your arm as indicated by the instructions for the wrist strap. Attach the clip to the power supply's chassis. If the work surface is not ESD-protected, it is recommended that the chassis also be connected to a known good ground potential. **Do not use source power protective earthing connections unless known to be zero potential.**
5. Remove fourteen (14) flathead screws from the power supply cover: five (5) on each side surface and four (4) on the top surface. Remove the cover by lifting it straight up. It may be necessary to apply a slight outward force at the lower edge toward the rear of the power supply to release the cover. Set the cover and screws to the side.

2.3 CIRCUIT CARD ASSEMBLY (CCA) A4 PROM U7 REPLACEMENT (SEE FIGURE 1)

1. Locate PROM U7 on A4 CCA near the front of the power supply. Note the orientation of the label of the device installed in the PLCC socket. (see Figure 1).

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

2. Touch the IC tube to the chassis of the KLP, then open one end of the tube.
3. Insert the hooked end of the supplied PLCC extraction tool into one of the two tooling notches located at opposite corners of the PLCC socket for U7. Applying firm, continuous pressure lift one corner of the PLCC free of the socket, then lift the entire device free.
4. Examine the PLCC socket for damaged or bent contacts; if found, return unit to Kepco for repair.
5. Select the replacement device whose label bears the same serial number as that noted in PAR. 2.2, Step 2. Orient the replacement device so that it is centered over the PLCC socket with the label oriented identically to the original (see Step 1 above). Apply firm, even pressure to seat the new device fully within the socket.
6. Reinstall the cover by reversing the disassembly procedure (see PAR. 2.2, step 5).
7. Reinstall source U power, load and programming cables and turn the unit on. Factory calibration is retained and recalibration is not necessary.

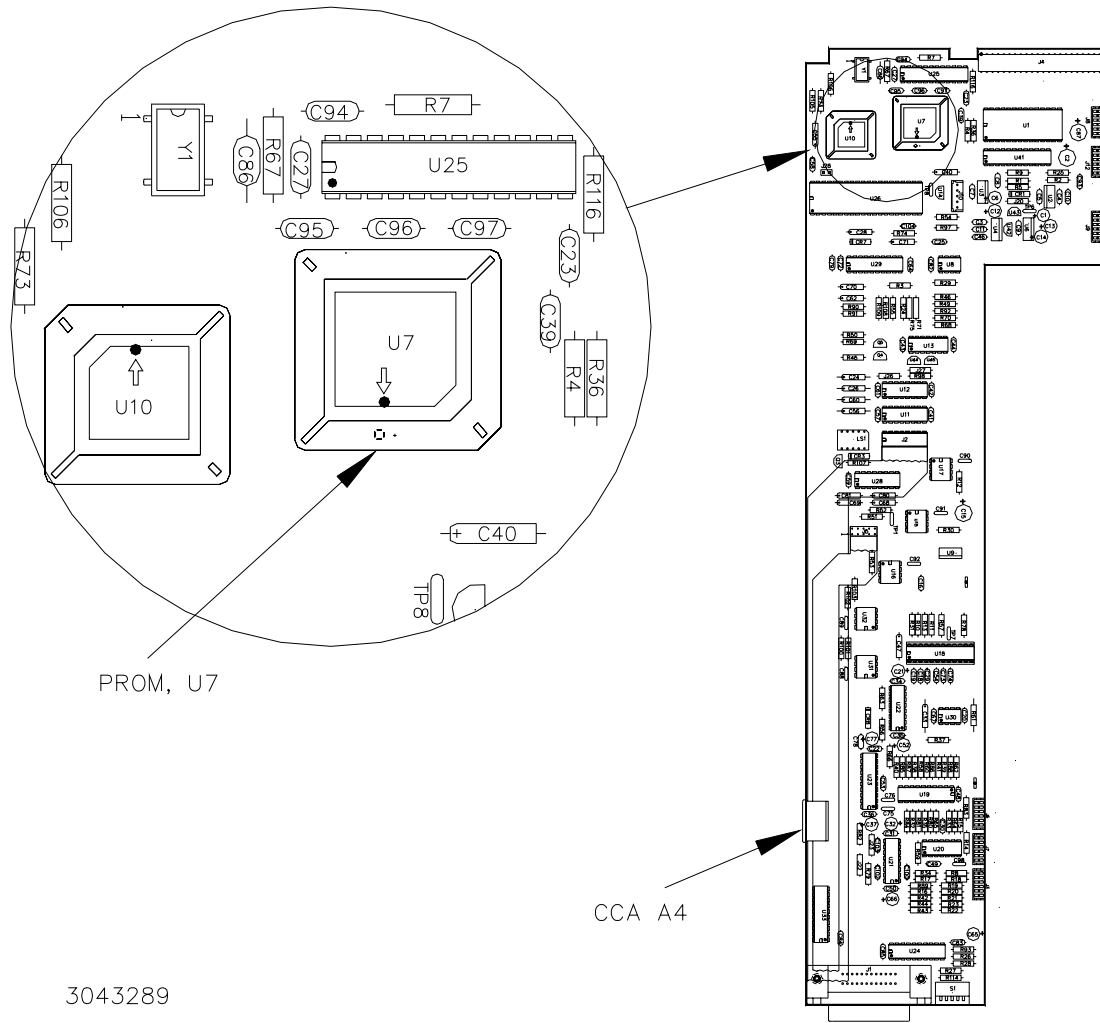


FIGURE 1. CIRCUIT CARD ASSEMBLY A4 PROM U7 LOCATION