

INSTRUCTION MANUAL



KEPCO An ISO 9001 Company.

KIT
219-0663

DCPS POWER ASSEMBLY 27637 FIRMWARE UPGRADE

1. DESCRIPTION

The Kepco KIT Model 219-0663 contains the PROMs for the MST 32-6.25F-27635 Power supplies and the MST 488-27VA-27638 Digital Programmer that upgrades the DCPS Power Assembly 27637 firmware.

2. MATERIAL REQUIRED

Material required is listed in Table 1.)

TABLE 1. MATERIAL REQUIRED

MATERIAL	LOCATION	QUANTITY
• PROM (sleeve labeled power supply)	Provided in this Kit	6
• PROM (sleeve labeled Controller)	Provided in this Kit	1
• Label (Rev #)	Provided in this Kit	1
• Instruction Manual 228-1976	Provided in this Kit	1
• ESD (Electrostatic Discharge) wrist strap (KEPCO P/N 114-0080)	Provided in this Kit	1
• IC Extractor	Not Supplied	N/A
• Phillips Screw Driver	Not Supplied	N/A

3. INSTALLATION OF DIGITAL PROGRAMMER PROM

3.1 UPGRADE PROCEDURE

1. Turn power off and remove the digital programmer from rack adapter RA 55V-27682.
2. Remove the ten (10) screws securing the top cover of the digital programmer (there is one (1) screw\ at the rear, and nine (9) screws on the top, see Figure 1).

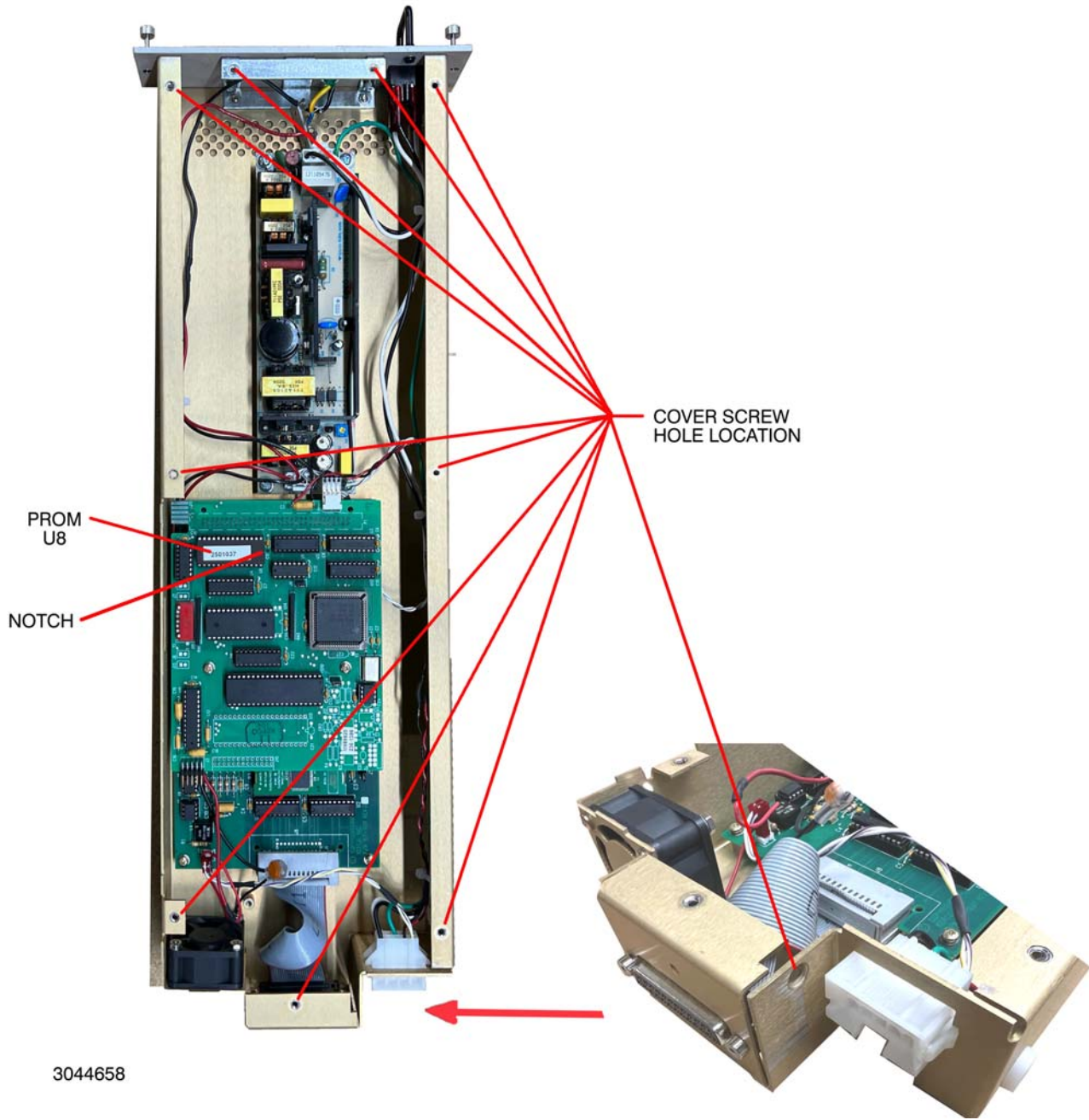


FIGURE 1. COVER REMOVAL AND PROM LOCATION

3. Locate PROM, U8 (see Figure 1).

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

4. Take the wrist strap from KIT 219-0663 and use the peel and stick area to connect the wrist strap to the chassis of the MST 488-27VA-27638. Place the wrist strap on your arm as indicated by the instructions for the wrist strap.
5. Touch the IC tube labeled Controller to the chassis of the MST 488-27VA-27638. Open one end.
6. Pry out the PROM using an IC extractor. Place the PROM in the tube and close the tube.
7. Open the other end of the IC tube and remove the replacement PROM from the tube.
8. Insert the PROM into the socket, insuring the notch is oriented as shown in Figure 1.
9. Reclose the IC tube. Remove wrist strap and disconnect it from the MST 488-27VA-27638.

4. INSTALLATION OF POWER SUPPLY PROMS

4.1 UPGRADE PROCEDURE

1. Turn power off and remove the first MST power supply from rack adapter RA 55V-27682.
2. Place the MST 32-6.25F-27635 Power Supply on its left side according to Figure 2. Remove the cover by removing four screws (1) from the top of unit, six screws (2) from the side, one screw (3) from the rear, and two screws (4) from the bottom.
3. Locate MST circuit card assembly A4 (see Figure 2), then locate PROM, U16 (see Figure 3).

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

4. Take the wrist strap from KIT 219-0663 and use the peel and stick area to connect the wrist strap to the chassis of the MST 32-6.25F-27635 power supply. Place the wrist strap on your arm as indicated by the instructions for the wrist strap.
5. Touch the IC tube labelled Power Supply to the chassis of the MST 32-6.25F-27635 power supply. Open one end.
6. Pry out the PROM from the circuit card assembly using an IC extractor. Place the PROM in the tube and close the tube.
7. Open the other end of the IC tube and remove the replacement PROM from the tube.
8. Insert the PROM into the socket, insuring the notch is oriented as shown in Figure 3.
9. Reclose the IC tube. Remove wrist strap and disconnect it from the MST 32-6.25F-27635 power supply.
10. Replace the cover and secure with the screws previously removed.
11. Reinstall the MST 32-6.25F-27635 power supply in the rack adapter RA 55V-27682.
12. Repeat steps 1 through 11 for each of the MST 32-6.25F-27635 power supplies in the rack adapter RA 55V-27682.

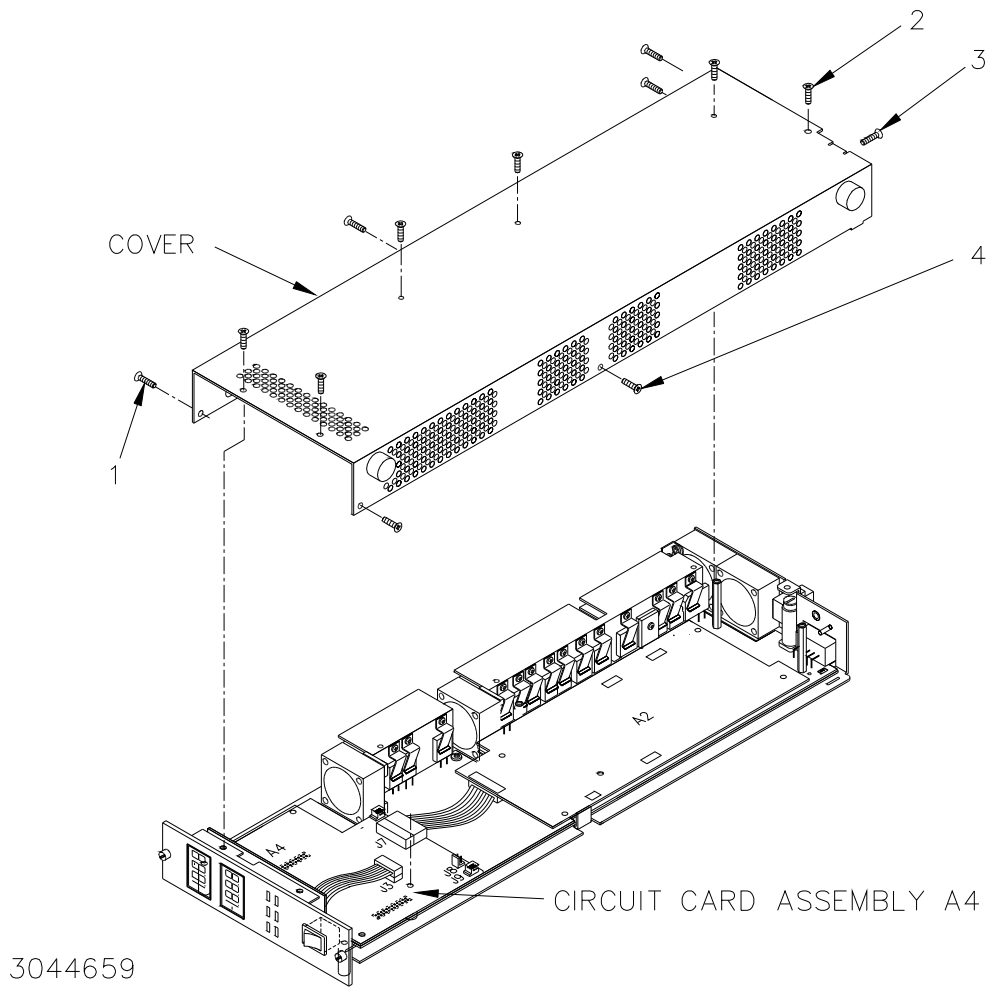


FIGURE 2. MST POWER SUPPLY COVER REMOVAL

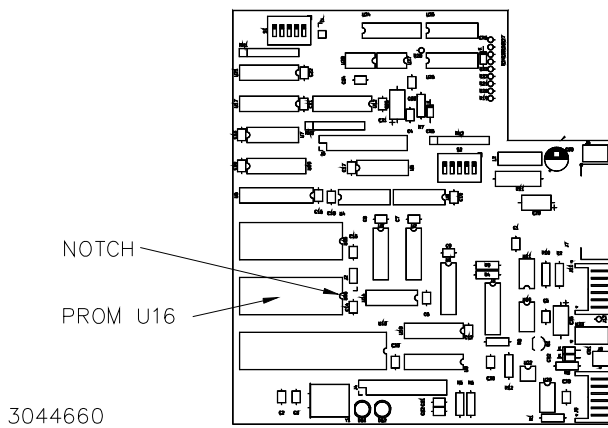


FIGURE 3. MST ASSEMBLY A4, PROM U16 LOCATION

13. Turn on power and verify the DCPS Power Assembly 27637 initializes normally.
14. Install the REV # label provided in this kit on the model nameplate located on the rear of the DCPS Power Assembly chassis (see Figure 4). Cover or remove any previous revision label and place the self-stick label in the location shown, adjacent to the serial number.



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ATTACH LABEL (REV #) HERE

FIGURE 4. DCPS POWER ASSEMBLY 27637 CHASSIS, REAR VIEW