



# E17-49015-00

## 46640 TO 46641

# FIRMWARE UPGRADE

# KIT

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#### About this Practice:

This practice has been reissued to:

- Document up-issue to E17-49015.
- Upgrade provides Y2K compliance.

**Reissued Practices:** Updated and new content can be identified by a banner in the right margin.

**Issue date: September 1999**

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#### CAUTION

- Install or remove modules from the shelf only when the power is off. If you install a module in the shelf with the power on, the internal circuitry may suffer damage and the product warranty will be void.
- Remove and install circuit boards only in a static-safe environment (use antistatic wrist straps, smocks, footwear, etc.).
- Keep circuit boards in their antistatic bags when they are not in use.
- Do not ship or store circuit boards near strong electrostatic, electromagnetic, magnetic, or radioactive fields.
- For more complete information on electrostatic discharge safety precautions, refer to Bellcore™ Technical Reference # TR-NWT-000870.

# ORDERING INFORMATION

**NOTE:** This section lists the different options available for this product. To order any of the available options, contact Dantel Inside Sales through our toll-free number, 1-800-432-6835.

OPTION NUMBER	FEATURES
E17-49015-00	Basic upgrade kit to upgrade 46640-01 MAP Firmware to D17-46641-00.

## INSTALLATION

The following instructions are for upgrading the firmware on the 46020 Multiple Alarm Processor (MAP) from 46640-01 to D17-46641-00.

The E17-49015-00 upgrade kit consists of the following items:

- ◆ 1 EPROM, part number F82-00351-00
- ◆ 1 ESD label, part number 951-00238-00
- ◆ 1 Identification label, part number 951-00260-03
- ◆ 1 Bar code label, part number 951-00199-16

**NOTE:**

Observe electrostatic precautions when handling both the MAP and the F82-00351-00 EPROM.

### Step 1

1. Remove the module to be upgraded and place the module on an ESD approved work area. The component side should be up and the blue handle to the left.
2. The EPROM to be removed is located in the top left corner of the module (Refer to Fig. 1) and is labeled x82-00308-00. Before removing this chip, note its orientation. (The notch is toward the top of the module.)
3. Remove the old EPROM by pulling straight up on the IC. It may be necessary to use a small screwdriver to gently pry the old EPROM up.
4. Discard the old IC.

### Step 2

1. Install the replacement EPROM, labeled F82-00351-00, in the socket. Verify that the orientation is the same as the old EPROM.
2. Applying even pressure, push the IC into position. Exercise caution not to bend any pins on the IC.

### Step 3

1. On the firmware subassembly, just below the EPROM, is a label. If that label is marked x17-46640-01, replace it with the new label D17-46641-00.

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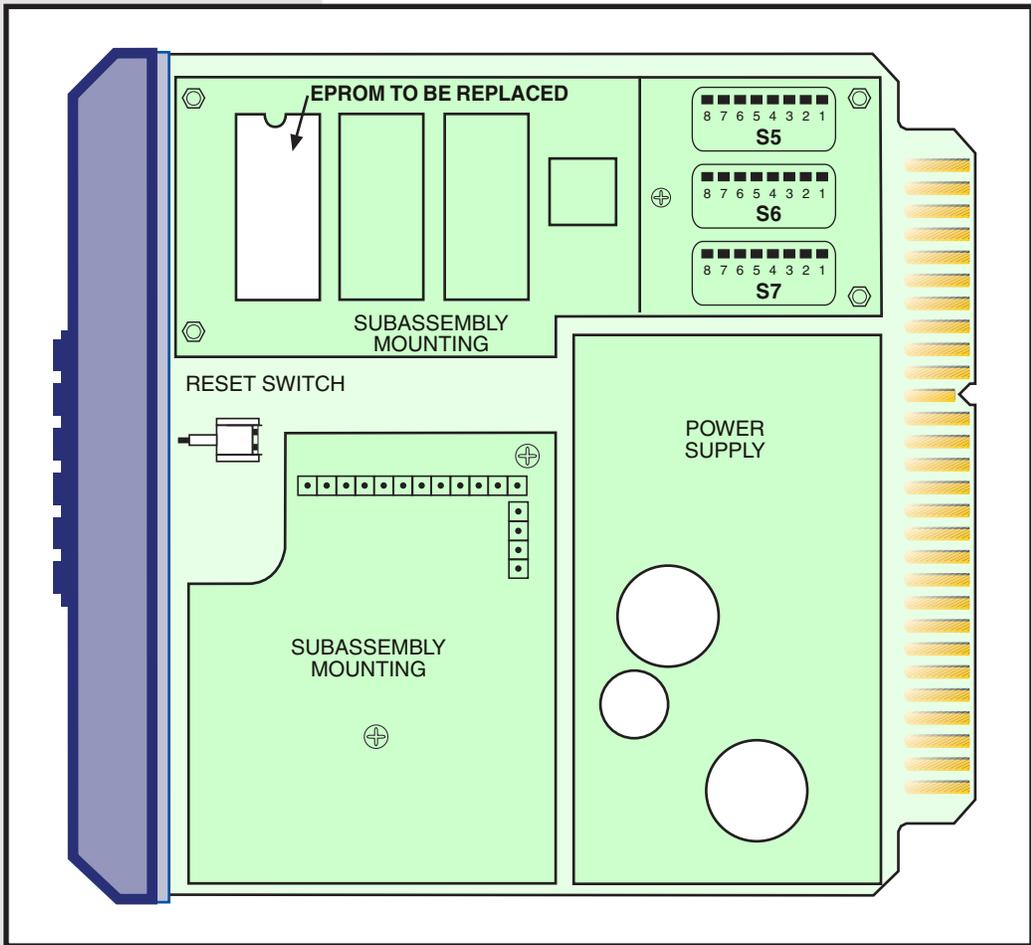
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# INSTALLATION

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2. If there is an identification label at the bottom of the front panel, replace it with the label marked 46020-41.
3. Remove the bar code label from the front of the blue handle and replace it with the new label that is marked RMPQADC7AA.

FIG. 1 - 46020 MAP EPROM LOCATION



# WARRANTY

## LIMITED WARRANTY

The Seller warrants that the standard hardware products sold will be free from defects in material and workmanship and perform to the Seller's applicable published specifications for a period of 18 months for hardware, and 3 months for software, from the date of the original invoice. The liability of the Seller hereunder shall be limited to replacing or repairing, at its option, any defective products which are returned F.O.B. to the Seller's plant, (or, at the Seller's option, refunding the purchase price of such products). In no case are products to be returned without first obtaining permission and a customer return authorization number from the Seller. In no event shall the Seller be liable for any consequential or incidental damages.

Equipment or parts which have been subject to abuse, misuse, accident, alteration, neglect, unauthorized repair or installation are not covered by warranty. The Seller shall make the final determination as to the existence and cause of any alleged defect. No warranty is made with respect to custom equipment or products produced to the Buyer's specifications except as specifically stated in writing by the Seller in the contract for such custom equipment.

This warranty is the only warranty made by the Seller with respect to the goods delivered hereunder, and may be modified or amended only by a written instrument signed by a duly authorized officer of the Seller and accepted by the Buyer.

Warranty and remedies on products not manufactured by the Seller are in accordance with warranty of the respective manufacturer. **THE SELLER MAKES NO OTHER WARRANTY OF ANY KIND WHATSOEVER, EXPRESSED OR IMPLIED; AND ALL IMPLIED WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE WHICH EXCEEDS THE AFORESAID OBLIGATIONS IS HEREBY DISCLAIMED BY THE SELLER.**

## IN CASE OF DIFFICULTY

If you experience difficulty with this equipment, check the following, as appropriate:

- 1. Switch settings**
- 2. Signal levels**
- 3. Software configuration**
- 4. Connections between Dantel's equipment and your equipment.**

If there is still a problem, substitute equipment that is known to be good. For additional assistance, call Dantel's Technical Field Service Department weekdays, 6 A.M. to 5 P.M. pacific time:

**1-800-4DANTEL (1-800-432-6835).**

If a thorough checkout shows a piece of equipment has malfunctioned, you may return it to the factory. For repairs and emergency replacements, obtain a Return Material Authorization (RMA) number from the Customer Service Representative at **1-800-4DANTEL (1-800-432-6835)**.

To ensure expedient processing of your order, provide a purchase order number and shipping and billing information when requesting an RMA number. Also, when the units are returned to Dantel, include a description of the failure symptoms for each unit returned. Send defective equipment to:

**Dantel, Inc. • 2991 North Argyle Avenue • Fresno, California 93727-1388**

