Dantel

Y2K UPGRADE KIT

FOR DANTEL SCAN AND CONTROL INTERFACE

46121-02, 03, 12

About this Practice:

This is a new document.

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

UPDATED

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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.

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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
A17-46123-01	Y2K Upgrade Kit for 46121-02 Scan and Control Interface
A17-46123-02	Y2K Upgrade Kit for 46121-03 Scan and Control Interface
A17-46123-03	Y2K Upgrade Kit for 46121-12 Scan and Control Interface

GENERAL DESCRIPTION

The following instructions are for upgrading the eproms on Dantel's 46121 Scan and Control Interface (Scanner) units to be Y2K compliant.

Refer to Table A for a breakdown of the parts included in the upgrade kits.

TABLE A - UPGRADE KITS AND PART NUMBERS

	DESCRIPTION	KIT A17-46123-01	KIT A17-46123-02	KIT A17-46123-03
	APPLICATION >>>>>>	B15-46121-02	B15-46121-03	B15-46121-12
1	EPROM	E82-00271-00	E82-00271-00	E82-00271-00
2	EPROM	E82-00271-01	E82-00271-01	E82-00271-01
3	Subassembly Label	B11-46123-01	B11-46123-01	B11-46123-01
4	Subassembly Barcode Label	RMPQADG7AA	RMPQADG7AA	RMPQADG7AA
5	Unit Label	B15-46121-02	B15-46121-03	B15-46121-12
6	Barcode Label	RMMYACVAAA	RMMYACWAAA	RMMYACXAAA
7	ESD Label	(one)	(one)	(one)

INSTALLATION

This procedure will guide you through the process of upgrading the Dantel 46121 Scan and Control Interface (Scanner). There are three versions of Scanner and each Scanner requires its own upgrade kit. Refer to Table A.

NOTE: *Observe all appropriate ESD precautions when handling the Scanner or tthe EPROMS.*

NOTE:

Observe all electrostatic precautions when handling both the Scanner and its EPROMs.

STEP 1 - EPROMS

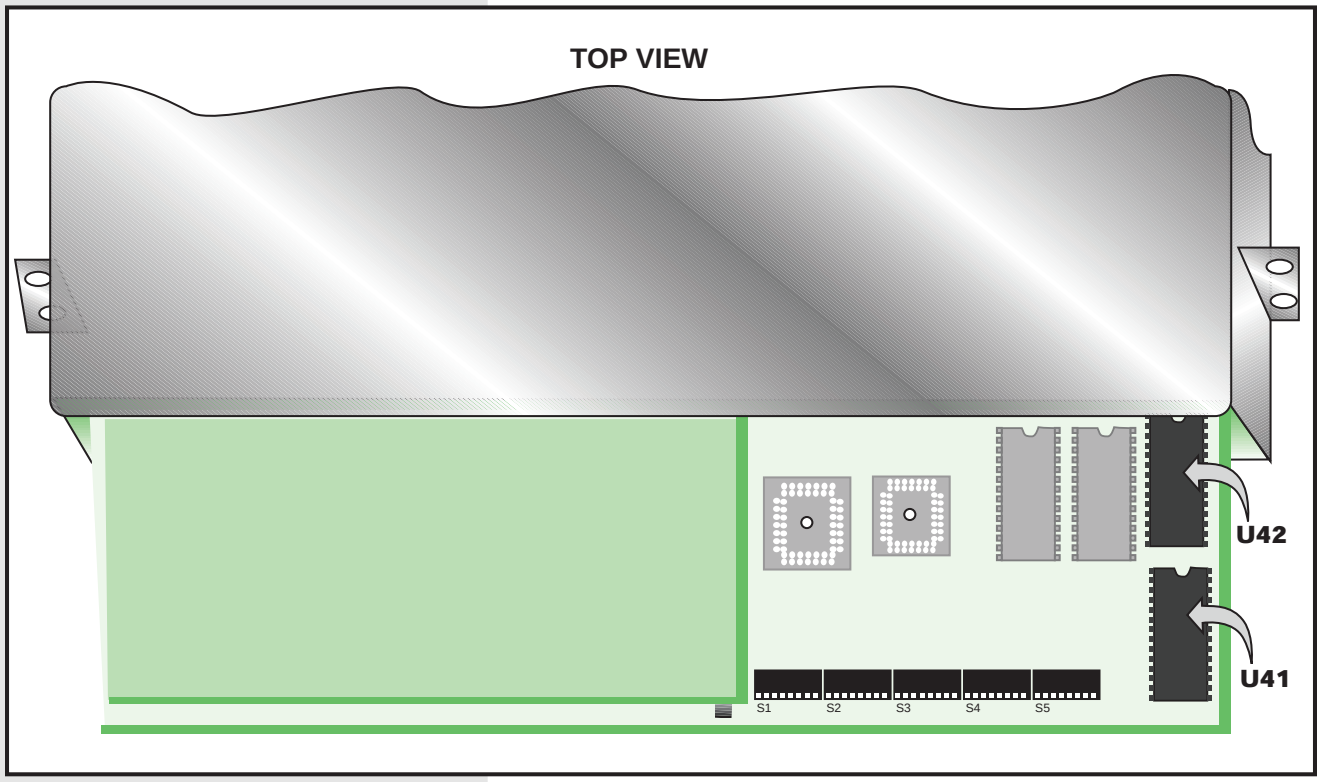
Remove the Old EPROMS

There are two IC's to replace.

1. Remove power from the unit and open the front panel.

   The two EPROMS to be replaced are located in the front, left corner of the main (lower) PC board. Refer to Fig. 1.

FIG. 1 - EPROM LOCATIONS



2. Pull the main board out approximately two inches to reveal the two eproms to be changed. Before removing the eproms, note their orientation. The notch is toward the back of the scanner.

IMPORTANT: *There are two eproms that will be replaced. Each of these eproms has a label on it designating it as either a* ***-00*** *or a* ***-01****. The eproms you will be installing are also labeled as a* ***-00*** *or a* ***-01****. The new* ***-00*** *must go in the same location as the old* ***-00*** *(closest to the front panel) and the new* ***-01*** *must go in the same location as the old* ***-01****.*

3. Remove the old eproms by pulling straight up on the IC. (It may be necessary to use a small screwdriver to gently pry the old eproms up.) Set the old eproms aside.

CONTINUED . . .

Install New EPROMs

1. Install the replacement -00 eprom in the socket labeled U41. (Refer to Fig. 1.)
2. Install the replacement -01 eprom in the socket labeled U42. (Again, refer to Fig. 1.)
3. Verify that the orientation of both ICs is the same as the old eproms (the notch goes to the rear). Verify also, that none of the pins on the eproms were bent under the IC when it was pressed into the socket.

STEP 2 - LABELS

Refer to Table A. Each different Scanner uses different labels.

Subassembly Label

All three kits get the same label marked B11-46123-01. Apply this label to the inside of the front cover.

Subassembly Barcode Label

All three kits get the same label marked RMPQADG7AA. Apply this label to the front panel in the space marked CPU Card.

Unit Label

Each kit gets a distinct label.

- The A17-46123-01 kit gets a label marked B15-46121-02. Apply this label to the inside of the front cover.
- The A17-46123-02 kit gets a label marked B15-46121-03. Apply this label to the inside of the front cover.
- The A17-46123-03 kit gets a label marked B15-46121-12. Apply this label to the inside of the front cover.

Barcode Label

Each kit gets a distinct label.

- The A17-46123-01 kit gets a label marked RMMYACVAAA. Apply this label to the front panel below the 46121 box, on the right hand side.
- The A17-46123-02 kit gets a label marked RMMYACWAAA. Apply this label to the front panel below the 46121 box, on the right hand side.
- The A17-46123-03 kit gets a label marked RMMYACXAAA. Apply this label to the front panel below the 46121 box, on the right hand side.

STEP 3 - CHECKOUT

When power is applied to the 46121, the LEDs on the front panel will operate as follows:

- The CPU LED will blink to indicate that the unit is working.
- The master (MST) and printer (PTR) transmit (TXD) and receive (RXD) LEDs will blink whenever there is data activity on that port.
- If the unit has 512 alarm points, the GRP 1 and GRP 2 LEDs will toggle back and forth as the unit polls the first group of 256 points and then the second group. Only the GRP 1 LED will come on if the unit only has 256 points.
- All other LEDs are off.

1. Press the front panel TEST button.

   A test will be performed of the LED display and alarm inputs. During the test, the first 16 LEDs of the display will cycle on and off. (Note that the level LEDs, A-D, will not light.) Also, the GRP 1 and GRP 2, OK, 1, and 0 LEDs will turn on and off.

   If the alarm inputs are good, the OK LED will light for two seconds at the end of the test. If one or more alarm inputs are defective, the 1 or 0 LED will come on indicating either the alarm or non-alarm condition of the input is bad.

   A defective LED display will be indicated only by observing that one or more of the LEDs do not light.

2. Create an alarm at each input and verify that each alarm is reported correctly at the operations center.

   Also verify that each alarm is reported properly at the printer port. If external alarm indicating equipment, such as lights or bells, are connected to the alarm level relay outputs at TB-2, verify their operation.

   Verify that the front panel display operates correctly per the discussion earlier in this section.

   Acknowledge the alarms and verify the correct response.

3. From the operations center or the printer port, operate control points and verify that they function correctly, including the front panel LEDs.

4. If an external indicating device, such as a light or a bell, is connected to the unit's alarm output (TB-2, pins 9 and 10) test its operation by opening the front panel and inserting a small screwdriver into one of the fuses between the fuse wire and the alarm indicating contact.

5. If TB-2, pin 11 is wired to an external reset, ground that input and verify that the unit restarts.

6. This completes the Y2K upgrade procedure.

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

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