FCO TQK70-R001, Controllers fail to boot standalone backup

FIELD CHANGE ORDER
NUMBER: TQK70-R001

APPLIC: This FCO is intended for all TQK70 controllers. Field Service should schedule themselves to install more than one site per trip.

PROB/SYMPT: All TQK70 controller’s, REV A and REV B will either fail to boot standalone backup or take excessive time to boot standalone backup respectively, using some copies of VMS Version V5.0. The excessive time can be greater than 60 minutes.

QCK CK: EPROM part number Loc. E27 23-410E6-00 Loc. E28 23-411E6-00 Module Revision label == CX

COMPATIB/PREREQ:
N/A

EST INSTALL TIME
1 Hours

TOOLS/TEST EQUIP: No special tools are required.

FCO PARTS INFORMATION

ORDER BY
FCO KIT #
EQ-01528-01

<table>
<thead>
<tr>
<th>QUANTITY</th>
<th>PART NUMBER</th>
<th>DESCRIPTION</th>
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<tbody>
<tr>
<td>1</td>
<td>23-410E6-00</td>
<td>32Kx8 UV EPROM</td>
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<td>23-411E6-00</td>
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<td>FA-04828-01</td>
<td>FA Document, instructions</td>
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<tr>
<td>1</td>
<td>36-30204-01</td>
<td>REVISION LABEL MARKER</td>
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EQ KIT VARIATION/SYS-OPT APPLICABILITY: N/A

APPROVALS

CSSE ENGINEER
Kenneth L. Bassett

F.S. PRODUCT SAFETY
Steve Caccia

F.S. INTEGRATION

RESPON. CSSE MANAGER
Gerd Wegmann

F.S. MICROFICHE LIBS
EP-FSNVX-LB VAX

AFFECTED POPULATION
12,000

MICROMEDIA PUBLISHING
Ray Leblanc

VAXnotes
STARS

INITIAL KITTING
12,000

REVISION

HARDCOPY PUBLICATION
Please be advised to follow the procedures outlined below as you will be dealing with a unit that can be damaged by electrostatic discharge. The use of the Velostat kit is essential when handling the TQK70 and the EPROMS provided in the kit.

1. Perform all system/s shutdown procedures. Refer to the appropriate systems manuals applicable to the system involved.

2. Power down the system and remove the covers and panels required to gain access to the TQK70, (M7559) module.

3. Remove the interface cable from the M7559 module, and then remove the M7559 module itself from the system box.

3A. Remember to use the Velostat Kit which is essential when handling the TQK70 and the EPROMS.

4. Using the Figure on the attached document for locations and as a reference, replace the following components with the supplied parts.

   A. Remove the chip at location E27, replace it with P/N 23-410E6-00, this is a 32Kx8 UV EPROM.

   B. Exactly as above, remove the chip at location E28, and replace it with P/N 23-411E6-00, this chip is also a 32Kx8 UV EPROM.

   ***** BE SURE THAT THE CHIP’S ORIENTATION IN THE SOCKET, ON THE M7559 CONTROLLER BOARD IS CORRECT!

5. After you have installed the new EPROMS, update the module’s revision with the supplied labels. Place the module’s new revision label on the back-side of the board’s handle.

   NOTE REVISION Ax will now be Cx
   NOTE REVISION Bx will now be Cx, all TQK70’s will now be Cx.

   SEE ATTACHED FIGURE FOR PLACEMENT OF REVISION MARKER, EPROMS.

6. Replace the module back into its original slot in the backplane, and reconnect the cable.

7. Power-up the system and observe that the Module’s (M7559),
7A. Power-up LED indicators LED1 and LED2.
   a. LED 1, used to signal a Field Engineer that the microdiagnostics have passed. Upon power-up, this bit is reset, which lights the LED. After power-up diagnostics have passed, the LED is turned off.

   B. LED 2, used to signal the Field Engineer that the four step U/Q port protocol initialization has passed. The LED is turned off by asserting this line after the initialization has completed.

Complete your LARS form as per the table below.

Update the Site Management Guide to reflect this FCO activity.

LABOR ACTIVITY REPORTING

It is IMPERATIVE that this table be followed when reporting your labor.

<table>
<thead>
<tr>
<th>Activity -</th>
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<th>EUROPE</th>
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<td>TQK70-R001</td>
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<td>EQ-01528-01</td>
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</table>
Figure 1

M7559 (TQK70) Side 1 View