**FCO PMAG-EB-F001, Extremely slow performance w/o diag failure**

**FIELD CHANGE ORDER**

**NUMBER:** PMAG-EB-F001

**APPLICABILITY:**
All Turbochannel systems other than the DS5000 Model 200 that will have a PMAG-EB graphics option (Mid 3D) built prior to 5/24/91 installed in them.

**NOTE:** This FCO is to be implemented on an "AS NEEDED" basis.

**PROBLEM & SYMPTOM:** There will NOT be any diagnostic failure. The system will run EXTREMELY slow with pauses between each character printed. (Problem Statement continued on Page 2)

**SOLUTION:** This "as needed" FCO will be issued so that Contract and Warranty customers with "old" boards that have exhibited problems can be upgraded to current rev. at no charge.

**QUICK CHECK:** Check the serial number on the PMAG-EB graphics option. If built in ABO prior to 5/24/91 or if built in AYR prior to 5/12/91, the FCO is needed.

**PRE/CO-REQUISITE FCO:** KN02-AA

**MTTI HRS:** 1.0 Hrs.

**TOOL/TEST EQUIPMENT:** N/A

### FCO PARTS INFORMATION

<table>
<thead>
<tr>
<th>FCO KIT NO.</th>
<th>DESCRIPTION OF CONTENTS</th>
<th>EQ KIT VARIATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>EQ-01612-01</td>
<td>54-20185-02 PMAG-EB Option</td>
<td></td>
</tr>
<tr>
<td>FA-04945-01</td>
<td>FCO Document</td>
<td></td>
</tr>
</tbody>
</table>

### FCO CHARGING INFORMATION

<table>
<thead>
<tr>
<th>WARRANTY/CONTRACT</th>
<th>NONWARRANTY/NONCONTRACT</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON-SITE</td>
<td>OFF-SITE</td>
</tr>
<tr>
<td>TRAVEL/INSTALL</td>
<td>EQ KIT INSTALL</td>
</tr>
<tr>
<td>DEC</td>
<td>DEC</td>
</tr>
</tbody>
</table>

**APPROVALS**

<table>
<thead>
<tr>
<th>CSSE</th>
<th>CS LOGISTICS</th>
<th>CS PRODUCT SAFETY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Joe Amorelli</td>
<td>Carol Sarasin</td>
<td>Robert Brister</td>
</tr>
</tbody>
</table>

**CSSE MANAGER**

This document is published

**FCO RELEASE DATE**
Problem Statement (Continued from Page 1)

A quantity of approximately 1,200 Mid 3D modules will have been built and delivered before implementation of an ECO which isolates DMA errors received by the N10 to the 3D option module. Without this change, the N10 could respond to any DMA error signal which was generated by any other DMA engine on the system. In such a case, the N10 would hang. This presents an immediate problem on 3MIN due to DMA being used in the baseboard I/O. This ECO will be implemented prior to 3MIN availability, so the only affected 3MIN customers would be those moving their 3D options from a 3MAX to a 3MIN. Also, 3MAX customers who wish to add a DMA-based option (i.e. FDDI) to their system may also exhibit this problem.

******************************************************************
*                             CAUTION                            *
*                                                                *
*    Observe proper ESD procedures while installing the FCO.     *
*                                                                *
******************************************************************

Installation of this FCO would be done in the same manner as replacing any Turbochannel option. The following procedure can be used.

1. Shutdown the system software. (If necessary follow the instructions that came with the workstation software).

2. Turn off the system by pressing the " 0 " on the on/off switch located on the back of the unit.

3. Remove the cover from the unit.

4. Determine which slot the option will occupy. If necessary remove the existing Turbochannel option or rear cover plate(s).

5. Position the option module so it is in parallel to the bottom of the system unit, with the Turbochannel connector facing down.

6. Move the option module cable connector through the option slot
7. Firmly push the Turbochannel connector into its mate on the Turbochannel bus.

8. Assure proper alignment with the support posts. Insert the support post screws and tighten until the option is held securely in place.

9. Replace cover on the system unit and connect cable to the Turbochannel option.

10. Turn on the system unit and monitor.

11. Report the FCO activity on the LARS form in the "module/fail/area/FCO" column as per example on Page 3.

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+---------------------------+                   
   | d i g i t a l |                   
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FCO PMAG-EB-F001

PAGE 3 OF 3

LARS

CATEGORY F          USA     GIA     EUROPE
Activity -
(a) Contract and Warranty   W     U     Y
(b) IN-DEC Contract        K
   Hardware Segment Code 111
   Non Contract/Non Warranty  F     F     F
(c) RTD/Off-site Agreement F
   Product Line 01
DEC Option PMAG-EB PMAG-EB PMAG-EB
Type of Call M     M     M
Action Taken D     D     I
Fail Area-Module-FCO-Comments PMAG-EB-F001 PMAG-EB-F001 PMAG-EB-F001
Material Used EQ-01612-01 EQ-01612-01 EQ-01612-01

(a) Warranty Optimum, Warranty Standard and Warranty Basic (on-site) Agreements.
(b) Applies to INDEC AREA ONLY - Warranty Optimum, Warranty Standard and Warranty Basic (on-site) Agreements.
(c) RTD=Return to Digital or Off-site Agreements; If Field Engineer On-site, use Activity Code "F".
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