DIGITAL	FCO	CATEGORY [F]	PAGE 1 OF 3

FIELD CHANGE ORDER NUMBER: PMAG-DB-F001

APPLICABILITY:
All Turbochannel systems other than the DS5000 Model 200 that will have a PMAG-DB graphics option (Low 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-DB 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

FCO KIT NO.	DESCRIPTION OF CONTENTS	EQ KIT VARIATION APPLICABILITY
EQ-01611-01	54-20185-01 PMAG-DB Option	
FA-04944-01	FCO Document	

FCO CHARGING INFORMATION

WARRANTY/CONTRACT				NONWARRANTY/NONCONTRACT				
ON-SITE		OFF-SITE		ON-SITE		OFF-SITE		MATERIAL ONLY
TRAVEL/ INSTALL	EQ KIT	INSTALL	EQ KIT	TRAVEL/ INSTALL	EQ KIT	INSTALL	EQ KIT	ORDER-ADMIN,HANDLING PKG,SHIPPING & EQ KIT
DEC	DEC	DEC	DEC	CUS	CUS	CUS	CUS	CUS

APPROVALS

CSSE Joe Amorelli	CS LOGISTICS Carol Sarasin	CS PRODUCT SAFETY Robert Brister
CSSE MANAGER	This document is published	FCO RELEASE DATE

John Leeds	on multiple media including	30 May 1991
	hardcopy, Customer Services	
MICROMEDIA	Microfiche Libraries,	FCO REVISION
Diane MacDonald	Customer Services CD-ROM and	A
	MDS Microfiche Libraries.	
POPULATION		PARTS AVAILABILITY
1,000		June, 1991

Problem Statement (Continued from Page 1)

   A quantity of approximately 1,000 Low 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. The affected customers
   would be those moving their 3D options from a 3MAX to a 3MIN or any
   other Turbochannel system.

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****************************************************************
*                          CAUTION                            *
*                                                              *
*    Observe proper ESD procedures while installing the FCO.   *
*                                                              *
****************************************************************
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   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
      opening in the back of the system unit.

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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|   |   |   |   |   |   |   | |    |           FCO   PMAG-DB-F001
|   |   |   |   |   |   |   | |    |
| d | i | g | i | t | a | l | |    |
|   |   |   |   |   |   |   | |    |           PAGE 3  OF  3
+----------------------------+    |
_____|_____
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                          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-DB   PMAG-DB   PMAG-DB
   Type of Call   M   M   M
   Action Taken   D   D   I
   Fail Area-Module-FCO-Comments PMAG-DB-F001   PMAG-DB-F001 PMAG-DB-F001
   Material Used   EQ-01611-01   EQ-01611-01   EQ-01611-01

   (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".
\^ PMAG-DB
\\FCO_DOCS
\\DS5000
\\Turbochannel
\\1991
\\MAY

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\\PMAG-DB
\\PMAG
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