Field Application Document (FA)

DIGITAL	FCO	CATEGORY	PAGE 1
		[F]	OF 5

FIELD CHANGE ORDER   NUMBER: KN16-AA-F002
                                          KN16-BA-F002
                                          KN16-CA-F002
                                          KN16-DA-F002

APPLICABILITY: This is an as needed FCO. It is for the DEC3000 Models 300, 300L, 300X, and 300LX systems with one or more 32 megabit Samsung SIMMs (Samsung part # KMM5368100-7) installed. Systems affected directly are those shipped to Europe. Other systems may exhibit this problem when a memory upgrade is installed.

PROBLEM & SYMPTOM: These problems can range from systems not being able to boot OSF, to systems crashing, and will only show up on systems with one or more 32meg Samsung SIMM.

SOLUTION: Install one of the following EQ kit(s) which are designed to solve system problems described above when the system(s) contain 32Megabit Samsung SIMMs (part # KMM5368100).

	Sales Part#	CPU Option #	Module Part#	Rev.	EQ-KIT #
# 1 :	DEC3000 Mod 300	FCO-KN16-AA-F002	54-22249-01	K01	EQ-01702-01
# 2 :	DEC3000 Mod 300X	FCO-KN16-CA-F002	54-22249-01	K01	EQ-01702-01
# 3 :	DEC3000 Mod 300LX	FCO-KN16-DA-F002	54-22249-01	K01	EQ-01702-01
# 4 :	DEC3000 Mod 300L	FCO-KN16-BA-F002	54-22249-02	K01	EQ-01702-02

QUICK CHECK: Check for SAMSUNG 32megbite memory SIMMs and verify the system
             board is below revision K01.

PRE/CO-REQUISITE FCO: None | MTTI HRS
                                                                   | 1.0

TOOL/TEST EQUIPMENT: Power-up self-test is all that is needed.

FCO PARTS INFORMATION

FCO KIT NO.	DESCRIPTION OF CONTENTS

EQ-KIT #		CPU Option #	Module Part#	Rev.
EQ-01702-01	Qty 1	FCO-KN16-AA-F002	54-22249-01	K01
EQ-01702-01	Qty 1	FCO-KN16-CA-F002	54-22249-01	K01
EQ-01702-01	Qty 1	FCO-KN16-DA-F002	54-22249-01	K01
EQ-01702-02	Qty 1	FCO-KN16-BA-F002	54-22249-02	K01
FA-05039-01	Qty 1	Field Application (FA) Document		

FCO CHARGING INFORMATION (See Page xx)

APPROVALS

TECH. ENGINEER	ENG. BUSINESS MGR.	DSHQ LOGISTICS	DS PRODUCT SAFETY
Bob Sherman	John Leeds	James Almedia	Robert Brister
MICROMEDIA	PARTS AVAILABILITY	FCO REVISION	FCO RELEASE DATE
Brenda Rogers	September 1994	Rev A	

```
             *********************************************************
        *  INSTRUCTIONS FOR CHECK AND REPLACING THE SYSTEM MODULE *
             *********************************************************


                          ***********
                          * CAUTION *
                          ***********
                WEAR A STATIC WRIST STRAP AND USE A STATIC MAT.

*****************************************************************************************


                          ********
              * NOTE *
         ********

 Refer to section 2 of the DEC 3000 Model 300/300L AXP Hardware
 Guide (EK-PELCN-OG) for more detailed instructions.

*****************************************************************************************
```

1. Have the customer run shutdown on the system. After the system
   has been shutdown, Turn off the power to the system. If the
   monitor is on top of the system, disconnect it from the system
   and remove it.

2. Remove all cables from the back of the system.

3. To remove the system unit cover, remove the two Phillips screws
   on the right and left back corners of the system cover. Place the
   system unit so that the back edge extends over the edge of the
   table or desk. Place your thumbs on the two black caps on the back
   of the system unit, and at the same time, place your fingers under
   the cover's bottom edge. Press down with your thumbs while you
   press up against the cover's bottom edge with your fingers to lift
   the cover off.

4. The revision label is somewhere on the system module. It is most
   likely under the CPU module. If the revision on the system module
   is K01 or higher, you do not need to install this FCO. If the
   system module is below K01, you will have to check each of the
         32meg SIMMS to see if they are Samsung. If the part number on the
         Samsung SIMM is KMM5368100-7, then this FCO should be installed.
         If the part number is KMM536810A-7 this FCO does not need to be
         installed.

```
+---------------------------+    |
|   |   |   |   |   |   |   |    |              FCO   KN16-XX-F002
| d | i | g | i | t | a | l |    |
|   |   |   |   |   |   |   |    |              PAGE 3 OF 5
+---------------------------+    |
```

5. To remove the system module, you must loosen the four captive
   screws that hold the module in place: two at the back corner
         edges of the module, and two at the center edges. Lift the module
         up off the system module. The four support posts will have to be
         removed if the system module is to be replaced.

****

     ****
     WARNING
     ****

 Do not use the aluminum heat sink as a handle. This can cause
 damage to the CPU, and also may be very hot.

****

6. If the system module needs to be replaced, refer to the
   following steps and to the DEC 3000 Model 300/300L AXP Hardware
   Guide (EK-PELCN-OG) for more detailed instructions.

   1. Remove any TURBOchannel modules.

   2. Remove the power harness from the system module.

   3. Remove the CPU module.

   4. Remove any drives.

   5. Unscrew the four TURBOchannel posts (excluding the 300L).

6. Remove all memory SIMMs.

7. Unscrew the four CPU module posts.

8. Remove the two screws on the back side corners of the system
   module.

9. Gently pry the system module off the three standoffs and pull
   the module toward the front of the system unit.

```
+----------------------------+     |
|   |   |   |   |   |   |   | |     |                 FCO   KN16-XX-F002
|   |   |   |   |   |   |   | |     |
| d | i | g | i | t | a | l | |     |
|   |   |   |   |   |   |   | |     |                 PAGE 4 OF 5
+----------------------------+     |
```
_____|_____

7. To install the new system module follow these steps and refer
   to the DEC 3000 Model 300/300L AXP Hardware Guide (EK-PELCN-OG)
   for more detailed instructions.

   1. Insert the connectors on the system module through the
      openings at the back of the system enclosure. Then seat the
      system module over the standoffs and push down gently.

   2. Install the two screws on the back side corners of the
      system module.

   3. Screw the four TURBOchannel posts in place. (excluding the
      300L)

   4. Screw the four CPU module posts in place.

   5. Install any drives with their power and data cables.

   6. Install the CPU module.

   7. Install the power supply harness on the system module.

   8. Install any TURBOchannel modules.

   9. Install all memory SIMMs.

   10. Connect all external cables to the back of the system.

   11. Run the power-up self-test and check to be sure that all the
       options are seen by the system.

12. If the power-up self-test passes and all the options are seen
    by the system, this FCO is complete.

```
+--------------------------+   |
|   |   |   |   |   |   |  |   |              FCO   KN16-XX-F002
| d | i | g | i | t | a | l |  |
|   |   |   |   |   |   |  |   |              PAGE 5 OF 5
+--------------------------+   |
_____|_____
```

                              LARS

                    USA   GIA   EUROPE

    Activity -
    (a)Contract   W   U   K
       Warranty   W   U   W

    (b)IN-DEC Contract   K   U   A
       Non Contract/Non Warranty F   F   F
    (c)RTD/Off-site Agreement F   U   F

       Hardware Segment Code 111   111   111
       Product Line   031   031

    DEC Option   A3300   A3300   A3300
    Option ID   X   N/A   N/A
    Type of Call   M   M   M
    Action Taken   D   D   I/V
    Fail Area-Module-FCO-Comments
    Material Used   EQ-01702-01   EQ-01702-01   EQ-01702-01
    Material Used (300L only) EQ-01702-02   EQ-01702-02   EQ-01702-02

    (a) Warranty Optimum, Warranty Standard and Warranty Basic (on-site)
         Agreements; * Note material (only) free of charge for all
  customers.
    (b) Applies to IN-DEC Area Only
    (c) RTD=Return to Digital or Off-site Agreements; If Field Engineer
         On-site, use Activity Code "F".

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