_ FCO PC736-F001, BIOS support for 5.25" diskettes

DIGITAL	FCO	CATEGORY [F]	PAGE 1 OF 5					
FIELD CHANGE (ORDER	NUMBER: PC736-F001, PC743-F001, PC744-F001,	PC741-F001 PC746-F001					
APPLICABILITY 743, 744 and 7 for 5.25", 360 the BIOS ROM w P/N 54-22042-0	This "F" coded FCO shou 746 computers at customer s 0KB formatted diskettes. I with revision level 1.22 on 01.	ld be installed on DECpc73 ites that require the BIOS t will upgrade the PCs by the Main Logic Board,	6, 741, support replacing					
This FCO is or 360KB formatte	nly for customers that requ ed diskettes.	ire the BIOS support for 5	5.25", 					
This FCO incom of the 54-2204	rporates ECO 5422042-TA009 a 42-01 Main Logic Board.	and will not change the re	evision 					
PROBLEM & SYMP - Problem rea - Disk type 3 - NO extended - Wrong polar	 PROBLEM & SYMPTOM: Problems & symptoms fixed by this FCO are as follows: Problem reading 5.25", 360KB formatted diskettes Disk type 34 and 35 do not comply with 85MB and 127MB Quantum drives NO extended printer support for NS87C311 & NS87C312 Wrong polarity for V-SYNC and H-SYNC in 1024X768 display mode 							
SOLUTION: Rep 54-22042-01 wi	place the BIOS ROM in locat ith BIOS ROM, P/N 23-397E9-	ion E48 on the Main Logic D0 (BIOS V1.22).	Board					
QUICK CHECK: - DECpc LP Re display on - For spares Logic board to Figure 2	There are several ways to ev level is displayed during Step 10 of suggested insta check the P/N printed on th d (54-22042-01). It should l in this document for visua	check for DECpc LP revision g power up. Refer to samp llation procedure in this he BIOS ROM located on the be 23-397E9-00 V1.22, ref al assistance.	on level. ole screen document. Main er					
PRE/CO-REQUIS	PRE/CO-REQUISITE FCO: N/A MFIT HRS 1.0 hrs.							
TOOL/TEST EQUIPMENT: Field service tool kit, Electrostatic kit and chip extracting tool.								
FCO PARTS INFORMATION								
FCO KIT NO.	FCO KIT NO. DESCRIPTION OF CONTENTS							
EQ-01671-01	71-01 1 - 23-397E9-00 BIOS ROM							
FA-05006-01	7A-05006-01 1 - FCO document							
	FCO CHARGING INFORMATIO	N (See Last Page)	 					
	APPROVALS							

TECH. ENGINEER	ENG. BUSINESS MGR.	DS LOGISTICS	DS PRODUCT SAFETY
Mike Ardehali	Ed Tang	George Simko	Robert Brister
I	İ	İ	
MICROMEDIA	PARTS AVAILABILITY	FCO REVISION	FCO RELEASE DATE
Diane MacDonald	April, 1993	A	

+	 				+	
 		 ;	 +	2		
u	9			a		
+	 				+	

FCO PC736-F001, PC741-F001, PC743-F001, PC744-F001, PC746-F001 PAGE 2 OF 5

Field Installation and verification Procedure for BIOS V1.22

- Check the BIOS revision level by rebooting the system. If it is below V1.22 then install EQ-01671-01. Refer to Step 10 for sample screen printout.
- 2. Use ALL ESD safety precautions to prevent DOA's on material in kit.

- 3. Setting up Velostat Kit
- a. Unfold the Velostat mat to full size (24" x 24")
- b. Attach the 15 foot ground cord to the Velostat snap fastener on the mat.
- c. Attach the alligator clip end of the ground cord to a good ground on the cabinet.
- d. Attach the wrist strap to either wrist and the alligator clip to a convenient portion of the mat.
- e. Remove the module from its CPU option slot and place it on the mat.

Or:

f. Remove the module from the spares kit and lay it on the velostat mat.

- 4. Turn the power off to all external devices first, then turn the computer off and disconnect the power cord.
- 5. Remove the enclosure cover by unlocking the outside cover lock, located in the back of the chassis. Then remove the 2 screws on each side of the unit. Remove the cover by sliding it towards the rear of chassis and then lifting it.

+		+	
			FCO PC736-F001, PC741-F00
d i	g i t	a l	PC743-F001, PC744-F00
İ	i i i	i i i	PC746-F001
+		+	PAGE 3 OF 5

6. Locate the BIOS ROM on the Main Logic Board. Refer to the following diagram for visual assistance: (The BIOS ROM is located on the left side of the Main Logic Board.)





Figure 1: Main Logic Board layout

7. Remove any optional ISA boards which obstruct the removal of BIOS ROM.

++	
	FCO PC736-F001, PC741-F001,
d i g i t a 1	PC743-F001, PC744-F001,
	PC746-F001
++	PAGE 4 OF 5

8. Use the chip extracting tool to remove the old BIOS ROM, pay attention to the chip orientation and make a note of which way the notch is facing. Replace it with the BIOS ROM V1.22 (23-397E9-00) supplied in EQ-01671-01. Pay particular attention to pin alignment and chip orientation when you are replacing the BIOS ROM. The notch on the ROM should face the back of the chassis, refer to Figure 1 on previous page for visual assistance. The notch on the chip is indicated by ">". Check to make sure there aren't any bent pins after you've replaced the chip.

- 9. Replace the enclosure by reversing the removal procedure and reconnect the power cord.
- 10. Turn on all the external devices first and then power up the computer. Note DECpc LP revision level should read 1.22 as shown in an example below.

SAMPLE SCREEN DISPLAY:

PhoenixBIOS(TM) A486 Version xx.xx.xx Copyright (C) 1985-1992 Phoenix Technologies LTD. All Rights Reserved

DECpc LP xxx Version 1.22

640k Base Memory xxxxxK Extended Memory

11. Press [F1] to enter setup, select the diskette drives A or B by

using the arrow keys. Change the value of the field using +/you should see that the 5.25", 360KB is one of the section choices.

Use the ESC key to exit the setup.

- 12. CLEANUP: The removed BIOS ROM should be discarded per standard Digital procedures.
- 13. Report this FCO activity in the LARS form in the "fail area/module /FCO/comments" column as follows; FCO XXXXX See LARS example on the last page of this document.

For more detained information on removal and replacement of cabinet cover or Main Logic Board layout, refer to DECpc 300/400 LP series User's Guide, Part Number ER-PC740-UA.

+						+	
d	i	g	i	t	a	1	
+						+	

FCO PC736-F001, PC741-F001, PC743-F001, PC744-F001, PC746-F001 PAGE 5 OF 5

14. Upgrade all field spares with EQ-01671-01. Mark the box "BIOS V1.22". This upgrade does not change the module revision.

	LARS		
CATEGORY F			
1	JSA	GIA	EUROPE
Activity -			
(a)Contract	W	U	K
Warranty	W	U	W
(b)IN-DEC Contract	K	U	А
Non Contract/Non Warranty	F	F	F
(c)RTD/Off-site Agreement	F	U	F
Hardware Segment Code	111	111	111
Product Line	007	007	007
DEC Option	PC730/740	PC730/740	PC730/740
Option ID	Х	N/A	N/A
Type of Call	М	М	М
Action Taken	D	D	I/V
Fail Area-Module-FCO-Comments	*	*	*
Material Used	EQ-01671-01	EQ-01671-01	EQ-01671-01

*NOTE: The following are the FCO numbers that apply to this section:

PC736-F001, PC741-F001, PC743-F001

- (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						
İ				İİ					
ON-SITE OFF-SITE		İİ	ON-SITE		OFF-SITE		MATERIAL ONLY		
				_	İ				
TRAVEL/	EQ		EQ	TI	RAVEL/	EQ		EQ	ORDER-ADMIN, HANDLING
INSTALL	KIT	INSTALL	KIT	I1	NSTALL	KIT	INSTALL	KIT	PKG, SHIPPING & EQ KIT
				_					
DEC	DEC	DEC	DEC		CUS	CUS	CUS	CUS	CUS
İ		İİ		İİ					

\\FCO_DOCS

\\EQ-01671