



Venturis FX

Product Change Information

Release Date: February 27, 1998

This document details the following for the Venturis FX product change information:

- Introduction
- Product Change Summary
- BIOS Release Summary
- Product Change Release Notes
- BIOS Change Release Notes
- Customer Impact Ratings
- Future Releases

Introduction

This document is meant to provide customers with a synopsis of product changes. The change information will enable customers to evaluate the impact any change has on their environment. All proposed product changes are appraised for impact to daily customer operations. The evaluation includes, but is not limited to such items as; safety, emission requirements, functionality, compatibility, reliability, and the manufacturing process. Recommendations are then made to customer on whether such action needs to be taken. On occasion, emergency changes will be released before they are reflected in this document.

Product Change Summary

The Product Change Summary provides a overview of the "Engineering Change Orders" or ECOs that have been released. This matrix provided the part number, part description, date of release, customer impact, and brief description of the change. At this time, this document only covers Main Logic Board (MLB) and system BIOS changes. Future releases of this document will include ECO information for other critical salable components.

BIOS Release Notes Summary

The BIOS Release Notes Summary provides more detailed change information on each BIOS release. This information includes three sections: problem fixed, new features, and compatibility.

Main Logic Board Change Summary

The Main Logic Board Change Summary provides an overview of the "Engineering Change Orders" or ECOs that have been released for the main logic board. This matrix supplies the part number, part description, date of release, customer impact, and brief description of the change.

At this time, this document accompanies new product releases. Thus there are no ECOs to be documented at this time. Future releases of this document will cover ECOs for the Main Logic Board (MLB).

Impact Rating

For each product change, a customer impact rating is given. The customer impact rating can be one of four ratings: High, Medium, Low, or None.

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|---------------|---|
| High | A "HIGH" rating indicates that this change has some or significant customer impact. This change may affect functionality or compatibility. |
| Medium | A "MEDIUM" rating indicates that this change may impact some customers or customers using certain configurations. This change will have a minor effect on reliability, functionality, or compatibility. |
| Low | A "LOW" rating indicates that this change will have a minor impact on customers. This change is typically a product improvement and/or enhancement. |
| None | A "NONE" rating indicates that this change has no customer impact. |

Future Releases

Future releases will incorporate information for other critical system components. Moving forward, BIOS changes will be separated from the Main Logic Board (MLB) changes. Historically, BIOS releases were tied to MLB revision therefore a change in BIOS version would change the MLB revision. In the future, a BIOS change will be independent and not affect the MLB revision.

Product Change Summary

Part Number	Part	Rev	ECO Number	Date	Impact	Change Description
54-24544-01	MLB	C05	5424544-TA007	June 96	High	Update BIOS
54-24544-02	MLB	C05	5424544-TA007	June 96	High	Update BIOS
54-24544-03	MLB	C05	5424544-TA007	June 96	High	Update BIOS
54-24544-04	MLB	C05	5424544-TA007	June 96	High	Update BIOS
54-24544-05	MLB	C05	5424544-TA007	June 96	High	Update BIOS
54-24544-01	MLB	C06	5424544-TA008	June 96	Low	Change resistor in RTC
54-24544-02	MLB	C06	5424544-TA008	June 96	Low	Change resistor in RTC
54-24544-03	MLB	C06	5424544-TA008	June 96	Low	Change resistor in RTC
54-24544-04	MLB	C06	5424544-TA008	June 96	Low	Change resistor in RTC
54-24544-05	MLB	C06	5424544-TA008	June 96	Low	Change resistor in RTC
54-24544-06	MLB	A02	5424544-TA008	June 96	Low	Change resistor in RTC
54-24544-07	MLB	A02	5424544-TA008	June 96	Low	Change resistor in RTC
54-24544-08	MLB	A02	5424544-TA008	June 96	Low	Change resistor in RTC
54-24506-01	Riser card	B02	5224506-TA001	July 96	Low	Re-layout PCB
54-24506-02	Riser card	B02	5224506-TA001	July 96	Low	Re-layout PCB
FR-A70WW-A0	MLB	B01	FRA70WW-TA001	July 96	Low	Update MLB
FR-A71WW-A0	MLB	B01	FRA71WW-TA001	July 96	Low	New etch MLB
FR-A80WW-A0	MLB	C01	FRA80WW-TA002	July 96	Low	Update MLB
FR-A81WW-A0	MLB	B01	FRA81WW-TA001	July 96	Low	Update MLB
FR-AB0WW-A0	MLB	B01	FRAB0WW-TA001	July 96	Low	Update MLB
54-24546-01	Riser card	B02	5424546-TA001	July 96	Medium	Re-design audio circuit
54-24546-02	Riser card	B02	5424546-TA001	July 96	Medium	Re-design audio circuit
FR-AA0WW-A0	MLB	C01	FRAA0WW-TA002	July 96	Low	Update MLB
54-24546-01	Riser card	B02	5424546-TA002	July 96	Low	EMI improvement
54-24546-02	Riser card	C02	5424546-TA002	July 96	Low	EMI improvement

Part Number	Part	Rev	ECO Number	Date	Impact	Change Description
54-24544-01	MLB	D06	5424544-TA010	July 96	High	Update BIOS
54-24544-02	MLB	D06	5424544-TA010	July 96	High	Update BIOS
54-24544-03	MLB	D06	5424544-TA010	July 96	High	Update BIOS
54-24544-04	MLB	D06	5424544-TA010	July 96	High	Update BIOS
54-24544-05	MLB	D06	5424544-TA010	July 96	High	Update BIOS
54-24544-06	MLB	B02	5424544-TA010	July 96	High	Update BIOS
54-24544-07	MLB	B02	5424544-TA010	July 96	High	Update BIOS
54-24544-08	MLB	B02	5424544-TA010	July 96	High	Update BIOS
54-24526-01	Front panel	B02	5424526-TA004	July 96	Low	Improve EMI
54-24526-02	Front panel	B01	5424526-TA004	July 96	Low	Improve EMI
FR-PCXRN-AE	CDROM	None	ECR MAG-013	Aug 96	Low	Update CD ROM
54-24506-01	Riser card	A02	5424506-TA002	Aug 96	Low	Add insulator
54-24506-02	Riser card	A02	5424506-TA002	Aug 96	Low	Add insulator
54-24588-01	MLB	C01	5424588-TA002	Aug 96	High	Update BIOS
54-24588-02	MLB	D01	5424588-TA002	Aug 96	High	Update BIOS
54-24588-03	MLB	D01	5424588-TA002	Aug 96	High	Update BIOS
54-24588-04	MLB	C01	5424588-TA002	Aug 96	High	Update BIOS
54-24588-05	MLB	C01	5424588-TA002	Aug 96	High	Update BIOS
54-24544-01	MLB	E06	5424544-TA011	Aug 96	High	Update BIOS
54-24544-02	MLB	E06	5424544-TA011	Aug 96	High	Update BIOS
54-24544-03	MLB	E06	5424544-TA011	Aug 96	High	Update BIOS
54-24544-04	MLB	E06	5424544-TA011	Aug 96	High	Update BIOS
54-24544-05	MLB	E06	5424544-TA011	Aug 96	High	Update BIOS
54-24544-06	MLB	B02	5424544-TA011	Aug 96	High	Update BIOS
54-24544-07	MLB	B02	5424544-TA011	Aug 96	High	Update BIOS
54-24544-08	MLB	B02	5424544-TA011	Aug 96	High	Update BIOS
54-24506-01	Riser card	B02	5424506-TA003	Aug 96	Low	Additional component source
54-24506-02	Riser card	B03	5424506-TA003	Aug 96	Low	Additional component source

Part Number	Part	Rev	ECO Number	Date	Impact	Change Description
54-24588-01	MLB	C02	5424588-TA005	Sept 96	Low	Re-layout of MLB
54-24588-02	MLB	E02	5424588-TA005	Sept 96	Low	Re-layout of MLB
54-24588-03	MLB	E02	5424588-TA005	Sept 96	Low	Re-layout of MLB
54-24588-04	MLB	D02	5424588-TA005	Sept 96	Low	Re-layout of MLB
54-24588-05	MLB	D02	5424588-TA005	Sept 96	Low	Re-layout of MLB
50-24587-01	MLB	B02	5424588-TA005	Sept 96	Low	Re-layout of MLB
54-24588-01	MLB	C01	5424588-TA004	Sept 96	High	Improve EMI margin
54-24588-02	MLB	E01	5424588-TA004	Sept 96	High	Improve EMI margin
54-24588-03	MLB	E01	5424588-TA004	Sept 96	High	Improve EMI margin
54-24588-04	MLB	D01	5424588-TA004	Sept 96	High	Improve EMI margin
54-24588-05	MLB	D01	5424588-TA004	Sept 96	High	Improve EMI margin
54-24588-01	MLB	D01	5424588-TA006	Sept 96	Low	Update to RTC
54-24588-02/03	MLB	F01	5424588-TA006	Sept 96	Low	Update to RTC
54-24588-04/05	MLB	E01	5424588-TA006	Sept 96	Low	Update to RTC
54-24588-01	MLB	D02	5424588-TA006	Sept 96	Low	Update to RTC
54-24588-02/03	MLB	F02	5424588-TA006	Sept 96	Low	Update to RTC
54-24588-04/05	MLB	E02	5424588-TA006	Sept 96	Low	Update to RTC
70-32546-01	CPU	A01	7032546-TA001	Sept 96	Low	Substitute component
FR-A70WW-A0	-----	B02	FRA70WW-TA002	Sept 96	Low	Delete 2 nd IDE cable
54-24544-01	MLB	H06	5424544-TA014	Oct 96	High	Update BIOS
54-24544-02	MLB	H06	5424544-TA014	Oct 96	High	Update BIOS
54-24544-03	MLB	H06	5424544-TA014	Oct 96	High	Update BIOS
54-24544-04	MLB	H06	5424544-TA014	Oct 96	High	Update BIOS
54-24544-05	MLB	H06	5424544-TA014	Oct 96	High	Update BIOS
54-24544-06	MLB	D02	5424544-TA014	Oct 96	High	Update BIOS
54-24544-07	MLB	D02	5424544-TA014	Oct 96	High	Update BIOS
54-24544-08	MLB	D02	5424544-TA014	Oct 96	High	Update BIOS
54-24588-01	MLB	E01	5424588-TA008	Nov 96	High	Update BIOS
54-24588-02/03	MLB	H01	5424588-TA008	Nov 96	High	Update BIOS
54-24588-04/05	MLB	F01	5424588-TA008	Nov 96	High	Update BIOS
54-24588-06	MLB	B01	5424588-TA008	Nov 96	High	Update BIOS
54-24588-01	MLB	E02	5424588-TA008	Nov 96	High	Update BIOS
54-24588-02/03	MLB	H02	5424588-TA008	Nov 96	High	Update BIOS
54-24588-04/05	MLB	F02	5424588-TA008	Nov 96	High	Update BIOS
54-24588-06	MLB	B02	5424588-TA008	Nov 96	High	Update BIOS

Part Number	Part	Rev	ECO Number	Date	Impact	Change Description
-----	-----	None	MAG 027	Nov 96	Low	Substitute components
54-24588-01	MLB	F01	5424588-TA009	Dec 96	High	Update BIOS
54-24588-02/03	MLB	J01	5424588-TA009	Dec 96	High	Update BIOS
54-24588-04/05	MLB	F01	5424588-TA009	Dec 96	High	Update BIOS
54-24588-06	MLB	C01	5424588-TA009	Dec 96	High	Update BIOS
54-24588-01	MLB	F02	5424588-TA009	Dec 96	High	Update BIOS
54-24588-02/03	MLB	J02	5424588-TA009	Dec 96	High	Update BIOS
54-24588-04/05	MLB	F02	5424588-TA009	Dec 96	High	Update BIOS
54-24588-06	MLB	C02	5424588-TA009	Dec 96	High	Update BIOS
-----	-----	None	MAG 029	Dec 96	Low	WindowsNT 4.0 to 4.0a
54-24544-01	MLB	J06	5424544-TA015	Dec 96	High	Update BIOS
54-24544-02	MLB	J06	5424544-TA015	Dec 96	High	Update BIOS
54-24544-03	MLB	J06	5424544-TA015	Dec 96	High	Update BIOS
54-24544-04	MLB	J06	5424544-TA015	Dec 96	High	Update BIOS
54-24544-05	MLB	J06	5424544-TA015	Dec 96	High	Update BIOS
54-24544-06	MLB	D02	5424544-TA015	Dec 96	High	Update BIOS
54-24544-07	MLB	D02	5424544-TA015	Dec 96	High	Update BIOS
54-24544-08	MLB	D02	5424544-TA015	Dec 96	High	Update BIOS
54-24588-01	MLB	F03	5424588-TA010	Dec 96	Low	Delete ROM socket
54-24588-02/03	MLB	J03	5424588-TA010	Dec 96	Low	Delete ROM socket
54-24588-04/05	MLB	F03	5424588-TA010	Dec 96	Low	Delete ROM socket
54-24588-06	MLB	C03	5424588-TA010	Dec 96	Low	Delete ROM socket
54-24588-01	MLB	F04	5424588-TA010	Dec 96	Low	Delete ROM socket
54-24588-02/03	MLB	J04	5424588-TA010	Dec 96	Low	Delete ROM socket
54-24588-04/05	MLB	F04	5424588-TA010	Dec 96	Low	Delete ROM socket
54-24588-06	MLB	C04	5424588-TA010	Dec 96	Low	Delete ROM socket

Part Number	Part	Rev	ECO Number	Date	Impact	Change Description
54-24544-01	MLB	K06	ECR TIO784 #02/54-24544	Jan 97	High	Update BIOS
54-24544-02	MLB	K06	ECR TIO784 #02/54-24544	Jan 97	High	Update BIOS
54-24544-03	MLB	K06	ECR TIO784 #02/54-24544	Jan 97	High	Update BIOS
54-24544-04	MLB	K06	ECR TIO784 #02/54-24544	Jan 97	High	Update BIOS
54-24544-05	MLB	K06	ECR TIO784 #02/54-24544	Jan 97	High	Update BIOS
54-24544-06	MLB	E02	ECR TIO784 #02/54-24544	Jan 97	High	Update BIOS
54-24544-07	MLB	E02	ECR TIO784 #02/54-24544	Jan 97	High	Update BIOS
54-24544-08	MLB	E02	ECR TIO784 #02/54-24544	Jan 97	High	Update BIOS
54-24544-01	MLB	K06	5424544-TA016	Jan 97	High	Update BIOS
54-24544-02	MLB	K06	5424544-TA016	Jan 97	High	Update BIOS
54-24544-03	MLB	K06	5424544-TA016	Jan 97	High	Update BIOS
54-24544-04	MLB	K06	5424544-TA016	Jan 97	High	Update BIOS
54-24544-05	MLB	K06	5424544-TA016	Jan 97	High	Update BIOS
54-24544-06	MLB	D02	5424544-TA016	Jan 97	High	Update BIOS
54-24544-07	MLB	D02	5424544-TA016	Jan 97	High	Update BIOS
54-24544-08	MLB	D02	5424544-TA016	Jan 97	High	Update BIOS
54-24588-01	MLB	K06	5424588-TA017	Jan 97	High	Update BIOS
54-24588-02	MLB	K06	5424588-TA017	Jan 97	High	Update BIOS
54-24588-03	MLB	K06	5424588-TA017	Jan 97	High	Update BIOS
54-24588-04	MLB	K06	5424588-TA017	Jan 97	High	Update BIOS
54-24588-05	MLB	K06	5424588-TA017	Jan 97	High	Update BIOS
54-24588-06	MLB	E02	5424588-TA017	Jan 97	High	Update BIOS
54-24588-07	MLB	E02	5424588-TA017	Jan 97	High	Update BIOS
54-24588-08	MLB	E02	5424588-TA017	Jan 97	High	Update BIOS
Systems	Multiple		ECR FJM-034	Jan 97	Low	Alternate SIMM source
54-24588-01	MLB	H03	5424588-TA012	Jan 97	High	Update BIOS
54-24588-02/03	MLB	K03	5424588-TA012	Jan 97	High	Update BIOS
54-24588-04/05	MLB	H03	5424588-TA012	Jan 97	High	Update BIOS
54-24588-06	MLB	D03	5424588-TA012	Jan 97	High	Update BIOS

Part Number	Part	Rev	ECO Number	Date	Impact	Update BIOS
54-24588-02/03	MLB	K04	5424588-TA012	Jan 97	High	Update BIOS
54-24588-04/05	MLB	H02	5424588-TA012	Jan 97	High	Update BIOS
54-24588-06	MLB	D02	5424588-TA012	Jan 97	High	Update BIOS
54-24588-01	MLB	J03	5424588-TA013	Jan 97	Low	Change to address SIMMs
54-24588-02/03	MLB	L03	5424588-TA013	Jan 97	Low	Change to address SIMMs
54-24588-04/05	MLB	J03	5424588-TA013	Jan 97	Low	Change to address SIMMs
54-24588-06	MLB	E03	5424588-TA013	Jan 97	Low	Change to address SIMMs
54-24588-01	MLB	J04	5424588-TA013	Jan 97	Low	Change to address SIMMs
54-24588-02/03	MLB	L04	5424588-TA013	Jan 97	Low	Change to address SIMMs
54-24588-04/05	MLB	J04	5424588-TA013	Jan 97	Low	Change to address SIMMs
54-24588-06	MLB	E04	5424588-TA013	Jan 97	Low	Change to address SIMMs
54-24588-01	MLB	K03	5424588-TA014	Jan 97	Low	Improve EMI margin
54-24588-02/03	MLB	M03	5424588-TA014	Jan 97	Low	Improve EMI margin
54-24588-04/05	MLB	K03	5424588-TA014	Jan 97	Low	Improve EMI margin
54-24588-06	MLB	F03	5424588-TA014	Jan 97	Low	Improve EMI margin
54-24588-01	MLB	K04	5424588-TA014	Jan 97	Low	Improve EMI margin
54-24588-02/03	MLB	M04	5424588-TA014	Jan 97	Low	Improve EMI margin
54-24588-04/05	MLB	K04	5424588-TA014	Jan 97	Low	Improve EMI margin
54-24588-06	MLB	F04	5424588-TA014	Jan 97	Low	Improve EMI margin

Part Number	Part	Rev	ECO Number	Date	Impact	Update BIOS
54-24588-01	MLB	K03	5424588-TA015	Jan 97	Low	substitute component
54-24588-02/03	MLB	M03	5424588-TA015	Jan 97	Low	substitute component
54-24588-04/05	MLB	K03	5424588-TA015	Jan 97	Low	substitute component
54-24588-06	MLB	F03	5424588-TA015	Jan 97	Low	substitute component
54-24588-01	MLB	K04	5424588-TA015	Jan 97	Low	substitute component
54-24588-02/03	MLB	M04	5424588-TA015	Jan 97	Low	substitute component
54-24588-04/05	MLB	K04	5424588-TA015	Jan 97	Low	substitute component
54-24588-06	MLB	F04	5424588-TA015	Jan 97	Low	substitute component
54-24588-01	MLB	L03	5424588-TA016	Feb 97	Low	Change resistor
54-24588-02/03	MLB	N03	5424588-TA016	Feb 97	Low	Change resistor
54-24588-04/05	MLB	L03	5424588-TA016	Feb 97	Low	Change resistor
54-24588-06	MLB	H03	5424588-TA016	Feb 97	Low	Change resistor
54-24588-01	MLB	L04	5424588-TA016	Feb 97	Low	Change resistor
54-24588-02/03	MLB	N04	5424588-TA016	Feb 97	Low	Change resistor
54-24588-04/05	MLB	L04	5424588-TA016	Feb 97	Low	Change resistor
54-24588-06	MLB	H04	5424588-TA016	Feb 97	Low	Change resistor
54-24588-01	MLB	M03	5424588-TA017	Feb 97	Low	Modify MLB
54-24588-02/03	MLB	N03	5424588-TA017	Feb 97	Low	Modify MLB
54-24588-04/05	MLB	L03	5424588-TA017	Feb 97	Low	Modify MLB
54-24588-06	MLB	H03	5424588-TA017	Feb 97	Low	Modify MLB
54-24588-01	MLB	M04	5424588-TA017	Feb 97	Low	Modify MLB
54-24588-02/03	MLB	N04	5424588-TA017	Feb 97	Low	Modify MLB
54-24588-04/05	MLB	L04	5424588-TA017	Feb 97	Low	Modify MLB
54-24588-06	MLB	H04	5424588-TA017	Feb 97	Low	Modify MLB
All FX Systems	CDROM	None	MAG 042	Feb 97	Low	Alternate source CD
All FX Systems	SIMMs	None	FJM-040/ FRPCCAM	Feb 97	Low	Additional SIMM source
All FX Systems	Hard Drive	None	FJM-045/ FRA80AW	Mar 97	Low	Additional hard drive source
All FX Systems	CDROM	None	FJM-050/ FRA70WW	Mar 97	Low	Additional hard drive source

Part Number	Part	Rev	ECO Number	Date	Impact	Update BIOS
54-24588-01	MLB	M03	5424588-TA018	Feb 97	Low	Change IC
54-24588-02/03	MLB	N03	5424588-TA018	Feb 97	Low	Change IC
54-24588-04/05	MLB	L03	5424588-TA018	Feb 97	Low	Change IC
54-24588-06	MLB	H03	5424588-TA018	Feb 97	Low	Change IC
54-24588-01	MLB	M04	5424588-TA018	Feb 97	Low	Change IC
54-24588-02/03	MLB	N04	5424588-TA018	Feb 97	Low	Change IC
54-24588-04/05	MLB	L04	5424588-TA018	Feb 97	Low	Change IC
54-24588-06	MLB	H04	5424588-TA018	Feb 97	Low	Change IC
54-24506-01	Riser card	B03	5424506-TA003	Apr 97	High	Add capacitor. see Note: Note: This is of high impact only if the Adeptec 2940N SCSI adapter card is being used.
54-24506-02	Riser card	B04	5424506-TA003	Apr 97	High	Add capacitor. see Note: Note: This is of high impact only if the Adeptec 2940N SCSI adapter card is being used.
54-24544-01	MLB	L06	5424544-TA018	Apr 97	Low	Improve EMI margin
54-24544-02	MLB	L06	5424544-TA018	Apr 97	Low	Improve EMI margin
54-24544-03	MLB	L06	5424544-TA018	Apr 97	Low	Improve EMI margin
54-24544-04	MLB	L06	5424544-TA018	Apr 97	Low	Improve EMI margin
54-24544-05	MLB	L06	5424544-TA018	Apr 97	Low	Improve EMI margin
54-24544-06	MLB	F02	5424544-TA018	Apr 97	Low	Improve EMI margin
54-24544-07	MLB	F02	5424544-TA018	Apr 97	Low	Improve EMI margin
54-24544-08	MLB	F02	5424544-TA018	Apr 97	Low	Improve EMI margin

BIOS Release Summary

BIOS Revision	MLB Revision	ECO Number	Date	Impact	Change Description
1.01	D06 B02	5424544-TA010	July 96	High	Maintenance Release
1.02	F01 F02	5424588-TA008	July 96	High	Maintenance Release
1.02	D02	5424588-TA014	Oct 96	High	Maintenance Release
1.03	H03 K03 D03 H04 K04 D04	5424588-TA012	Jan 97	High	Maintenance Release
1.03	K06 E02	T1078#02/ 54-24544	Jan-97	High	Maintenance Release
1.03	K06 E02	5424544-TA017	Jan 97	High	Maintenance Release
1.03	C05	5424544-TA007	Jun 96	High	Maintenance Release
1.05	C01 D01	5424588-TA002	Aug-96	High	Maintenance Release
1.05	E06 B02	5424544-TA011	Aug-96	High	Maintenance Release
1.07	H06	5424588-TA014	Oct-96	High	Maintenance Release
1.07	E01 H01 B01-	5424588-TA008	Nov-96	High	Maintenance Release
1.08	J06 D02	5424544-TA015	Dec 96	High	Maintenance release
1.08	F01 J01 C01 F02 J02 C02	5424588-TA009	Dec 96	High	Maintenance release
1.09	K06 D02	5424544-TA016	Jan 97	High	Maintenance release

System Software CD (EJFIGS)

Rel Date	Kit P/N	Ver.	CD P/N	Change Description
5-2-97	QC-054AA-H8	1.2	AG-R3GUA-BH	Continue to ship at this version through EOL.
TBD	QC-054AA-H8	TBD	AK-R3RTB-CA	TBD

Startup Diskette (EFIGS)

Rel Date	Kit P/N	Ver.	Disk P/N	Change Description
5-2-97	QC-05JAA-HC	1.1	AK-R3RTD-CA	Continue to ship at this version through EOL.

Diskette (Japanese)

Rel Date	Kit P/N	Ver.	Disk P/N	Change Description
5-2-97	QC-05JJA-HC	1.0	AK-	Continue to ship at this version through EOL.

ECO Number: 5424544-TA007

Part: Main Logic Boards

Revision:	54-24544-01	C04 - C05
	54-24544-02	C04 - C05
	54-24544-03	C04 - C05
	54-24544-04	C04 - C05
	54-24544-05	C04 - C05

Component: BIOS

Severity: High

ECO Issue Date: June 5, 1996

Type of Notification: Customer is advised to update to the latest BIOS

Change Description: Update BIOS via Flash Utility

Description:

1. Intermittent hang and loss of video when reset.
2. Intermittent loss of icons in Windows 95.

Solution:

Change BIOS version from 1.02 to 1.03.

Customer Impact/Recommendations:

The Customer is advised to update to the latest BIOS revision.

ECO Number: 5424544-TA008

Part: Main Logic Boards

Revision:	54-24544-01	C05 - C06
	54-24544-02	C05 - C06
	54-24544-03	C05 - C06
	54-24544-04	C05 - C06
	54-24544-05	C05 - C06
	54-24544-06	A01 - A02
	54-24544-07	A01 - A02
	54-24544-08	A01 - A02

Component: Resistor in RTC circuit

Severity: Low

ECO Issue Date: June 5, 1996

Type of Notification: No Customer Action is Required

Change Description: Change in resistor value to improve RTC performance

Problem Description:

RTCVDD electrical noise effects the stability of the real time clock (RTC).

Symptom:

Fails diagnostics.

Solution:

Change RTC resistor from 5.6M to 22M.

Customer Impact/Recommendations:

No action is recommended because the failing condition was detected during manufacturing test. Affected product was corrected prior to shipment. There is no customer impact.

ECO Number: 5424506-TA001

Part: Slim Riser Card

Revision: 54-24506-01 A01 - B02
54-24506-02 A01 - B02

Component: Board Etch and Various Passive Components

Severity: Dependent upon system configuration. Most users are unaffected

ECO Issue Date: July 16, 1996

Type of Notification: Customers utilizing all audio inputs may require update

Change Description: Re-layout of PCB to incorporate audio circuitry change

Problem Description:

1. HDD flat cable and FDD flat cable cannot be fully inserted into connectors J5 and J7, owing to cable housing and pcb has interference. Need to move J5 and J7 placement to near pcb edge.
2. About J200 (power connector), need to increase the clearance distance between solder pads and ground etch, in order to decrease short possibility during hand solder process.
3. For wave solder requirement, need to minimize routing area between pcb and break away board.
4. CD-AUDIO-IN & FAX/MODEM-IN is wired-or connected.
5. Change two up panel direction per TAO Mfg's request.
6. TAO Mfg requested to reduce cooling hole size. Because P/L need to stamp polyimide tape on these 8 holes for preventing excessive solder. Reduce the diameter of cooling hole to 3.5mm.

Symptom:

When the audio cables of both devices plug into the riser card, the volume is reduced.

Solution:

Relayout and plus below parts changes.

1. Add 10-45047-01 1u, qty 4, C100-C103, for 54-24506-02.
2. Add 13-40998-73 10.0 K, qty 6, R50-R55, for 54-24506-02.
3. Add 16-35517-01 Ferrite, qty 1, L8, for 54-24506-02.
4. Add 19-25996-01 O.P., qty 1, E5, for 54-24506-02.

Customer Impact/Recommendations:

Potential impact to customer in some audio configurations, see "Symptom" above.

ECO Number: FRA70WW-TA001

Part: Kernel

Revision: FR-A70WW-A0 A01 - B01

Component: Main Logic Board

Severity: Low

ECO Issue Date: July 16, 1996

Type of Notification: No Customer Action Required

Change Description: Update MLB in system kernel

Problem Description:

Phase in new MLB which with new etch on Venturis FX kernel.

Solution:

1. Change 54-24544-02 to 54-24588-02, STD.
2. Add note: 54-24588-02 can be substituted by 54-24544-02.

Customer Impact/Recommendations:

Customers may receive either etch as both are acceptable substitutes for each other.

ECO Number: FRA71WW-TA001

Part: Kernel - Japanese

Revision: FR-A71WW-A0 A01 - B01

Component: Main Logic Board

Severity: Low

ECO Issue Date: July 16, 1996

Type of Notification: No Customer Action Required

Change Description: Allow use of new etch Main Logic Board

Problem Description:

Phase in new MLB etch on Venturis FX kernel.

Solution:

1. Change 54-24544-06 to 54-24588-04, Japan MLB, STD.
2. Add note: 54-24588-04 can be substituted by 54-24544-06.

Customer Impact/Recommendations:

Customers may receive either MLB, as they are acceptable substitutes for each other.

ECO Number: FRA80WW-TA002

Part: Kernel

Revision: FR-A80WW-A0 B01 - C01

Component: Main Logic Board

Severity: Low

ECO Issue Date: July 16, 1996

Type of Notification: No Customer Action Required

Change Description: Update MLB

Problem Description:

Phase in new MLB etch on Venturis FX kernel.

Solution:

1. Change 54-24544-02 to 54-24588-02, STD.
2. Add note: 54-24588-02 can be substituted by 54-24544-02.

Customer Impact/Recommendations:

Customers may receive either MLB, as they are acceptable substitutes for each other.

ECO Number: FRA81WW-TA001

Part: Kernel - Japanese

Revision: FR-A81WW-A0 A01 - B01

Component: Main Logic Board

Severity: Low

ECO Issue Date: July 16, 1996

Type of Notification: No Customer Action is Required

Change Description: Update MLB

Problem Description:

Phase in new MLB etch on Venturis FX kernel.

Solution:

1. Change 54-24544-06 to 54-24588-04, Japan MLB, STD.
2. Add note: 54-24588-04 can be substituted by 54-24544-06.

Customer Impact/Recommendations:

Customers may receive either MLB, as they are acceptable substitutes for each other.

ECO Number: FRAB0WW-TA001

Part: FXE

Revision: FR-AB0WW-A0 A01 - B01

Component: Main Logic Board

Severity: Low

ECO Issue Date: July 16, 1996

Type of Notification: No Customer Action Required

Change Description: Update MLB

Problem Description:

Phase in new MLB etch on Venturis FX kernel.

Solution:

1. Change 54-24544-01 to 54-24588-01, STD.
2. Add note: 54-24588-01 can be substituted by 54-24544-01.

Customer Impact/Recommendations:

Customers may receive either MLB, as they are acceptable substitutes for each other.

ECO Number: 5424546-TA001

Part: Short Tower Riser Card

Revision: 54-24546-01 A01 - B02
54-24546-02 A01 - B02

Component: Passive components, MLB etch

Severity: Medium, depending on audio configuration

ECO Issue Date: July 17, 1996

Type of Notification: Customer Action may be Required

Change Description: Redesign of audio circuitry, affects certain configurations only

Problem Description:

1. CD-AUDIO-IN & FAX/MODEM-IN is wired or connected.
2. Insufficient bandwidth.

Symptom:

When the audio cables from both devices are used, the volume is reduced.

Solution:

RELAYOUT AND PLUS BELOW PARTS CHANGES.

1. Add 13-40998-73, 10.0K, QTY 6, R52-R57, for 54-24546-02
2. Add 16-35517-01, FERRITE, QTY 1, L8 for 54-24546-02
3. Add 19-25996-01, O.P. QTY 1, E5 for 54-24546-02
4. Del 13-40998-08, 20.0 QTY 1, R18 for 54-24546-02
5. Del 10-41937-01, .22UF QTY 1, C3 for 54-24546-02
6. Add 10-45047-01, 1.0UF QTY 4, C3,C90-C92 for 54-24546-02

Customer Impact/Recommendations:

Customer may be impacted based on configuration of audio components.

ECO Number: FRAA0WW-TA002

Part: FXSM Kernel

Revision: FR-AA0WW-A0 B01 - C01

Component: Main Logic Board

Severity: Low

ECO Issue Date: July 19, 1996

Type of Notification: No Customer Action Required

Change Description: Update MLB

Problem Description:

1. Phase in new MLB which with new etch on Venturis FX kernel.
2. Need to limit the minimum revision B02 of 54-24546-02 to immediate implementation of the new Riser card, multimedia only.

Solution:

1. Change 54-24544-03 to 54-24588-03, Multimedia.
2. Add note: 54-24588-03 can be substituted by 54-24544-03.
3. Add minimum rev. B02 to 54-24546-02, Riser card.

Customer Impact/Recommendations:

Customers may receive either MLB, as they are acceptable substitutes for each other. However, when replacing MLB's, note the revision of the riser card per note above.

ECO Number: 5424546-TA002

Part: Venturis FX MultiMedia Short Tower Riser Card

Revision: 54-24546-01 B02 - B02
54-24546-02 B02 - C02

Component: Capacitor

Severity: Low

ECO Issue Date: July 22, 1996

Type of Notification: No Customer Action Required

Change Description: EMI Margin Improvement

Problem Description:

EMI margin.

Solution:

Add 68PF capacitor 10-24051-11 to VI1_H signal to ground.

Customer Impact/Recommendations:

No customer impact.

ECO Number: 5424544-TA010

Part: Main Logic Boards - Japanese models

Revision:	54-24544-01	D06 - D06
	54-24544-02	D06 - D06
	54-24544-03	D06 - D06
	54-24544-04	D06 - D06
	54-24544-05	D06 - D06
	54-24544-06	A02 - B02
	54-24544-07	A02 - B02
	54-24544-08	A02 - B02

Component: Japanese BIOS

Severity: High

ECO Issue Date: July 22, 1996

Type of Notification: Customers with Japanese BIOS require update

Change Description: BIOS update

Problem Description:

System hangs if the keyboard driver "jkeyb.sys" is installed for Japanese DOS.

Solution:

Change BIOS version from 1.00 to 1.01.

Customer Impact/Recommendations:

No impact to product that does not utilize the Japanese BIOS (double byte characters force a unique BIOS). Customers that utilize the Japanese BIOS are advised to update their BIOS to the latest level.

ECO Number: 5424526-TA004

Part: Front Panel Control Module

Revision: 54-24526-01 A02 - B02
54-24526-02 A01 - B01

Component: Solder Mask

Severity: Low, manufacturing issue

ECO Issue Date: July 25, 1996

Type of Notification: No Customer Action Required

Change Description: Changing solder mask to improve EMI shielding

Problem Description:

Increase ground plane solder mask open area on Side-1. This will improve EMI margins.

Solution:

To change solder mask open area to reverse side (side-2) on the contacted area of ground plane and finger stock.

Customer Impact/Recommendations:

There is no Customer impact.

ECO Number: ECR MAG-013

Part: Venturis FX

Revision: N/A

Component: 6X CD-ROM FR-PCXRN-AE

Severity: Low

ECO Issue Date: August 13 1996

Type of Notification: No action required

Change Description: Changing 6X CDROM to 8X CDROM

Problem Description:

6X CD-ROM at End Of Life (FR-PCXRN-AE).

Solution:

Substitute 8X CD-ROM to continue production. (FR-PCXRN-AF)

Driver files available on PC Support Engineering Webpage:

Dos/WFW driver for FR-PCXRN-AF, Toshiba 8X CDROM; CT00000A.EXE.

Dos/WFW driver for FR-PCXRN-AG, LG Electronics 8X CDROM; C8GS124A.EXE.
(LG Electronics drive added as acceptable substitute).

Customer Impact/Recommendations:

Customers ordering new systems may receive an 8X CD-ROM.

ECO Number: 5424506-TA002

Part: Slim Riser Card, system enclosure

Revision: 54-24506-01 A01 - A02
54-24506-02 A01 - A02

Component: Riser Card in enclosure

Severity: Low, manufacturing issue

ECO Issue Date: August 15, 1996

Type of Notification: No Customer Action Required

Change Description: Addition of an insulator to eliminate potential short

Problem Description:

For 50-24505-01 rev: D02, the pcb side 2 etch may short with the enclosure standoff, when insert the screw on the middle of riser card.

Solution:

Add a insulator, P/N 74-51734-01, on side two to prevent circuit short.

Customer Impact/Recommendations:

There is no customer impact.

ECO Number: 5424588-TA002

Part: Main Logic Board

Revision:	54-24588-01	B01 - C01
	54-24588-02	C01 - D01
	54-24588-03	C01 - D01
	54-24588-04	C01 - C01
	54-24588-05	C01 - C01

Component: Flash BIOS

Severity: High

ECO Issue Date: August 15, 1996

Type of Notification: Customer is advised to update to the latest BIOS

Change Description: Update BIOS via Flash Utility

Problem Description:

1. Windows 95 SCT v5.10 APM test fails.
2. Audio is set to mute when system resumes from standby mode under Windows 95.
3. Mouse device cannot be changed dynamically in Windows 95.
4. Bootable CD boot failed with Toshiba CD-ROM 5602B(8X).

Solution:

Change BIOS version from 1.04 to 1.05.

Customer Impact/Recommendations:

The Customer is advised to update to the latest BIOS revision.

ECO Number: 5424544-TA011

Part: Main Logic Board

Revision:	54-24544-01	D06 - E06
	54-24544-02	D06 - E06
	54-24544-03	D06 - E06
	54-24544-04	D06 - E06
	54-24544-05	D06 - E06
	54-24544-06	B02 - B02
	54-24544-07	B02 - B02
	54-24544-08	B02 - B02

Component: BIOS update

Severity: High

ECO Issue Date: August 15, 1996

Type of Notification: Customer is advised to update to the latest BIOS

Change Description: Update BIOS via Flash Utility

Problem Description:

1. Windows 95 SCT v5.10 APM test fails.
2. Audio is set to mute when system resumes from standby mode under Windows 95.
3. Mouse device cannot be changed dynamically in Windows 95.
4. Bootable CD boot failed with Toshiba CD-ROM 5602B(8X).

Solution:

Fixed these problems and change BIOS version from 1.04 to 1.05.

Customer Impact/Recommendations:

The Customer is advised to update to the latest BIOS revision.

ECO Number: 5424506-TA003

Part: Slim Riser Card

Revision: 54-24506-01 B02
54-24506-02 B02 - B03

Component: LF 412 Integrated Circuit

Severity: Low, manufacturing issue

ECO Issue Date: August 27, 1996

Type of Notification: No Customer Action Required

Change Description: Additional source of qualified component

Problem Description:

Need additional source for LF412 integrated circuit.

Solution:

Replace LF412 (19-25996-01) with LM1458 (19-17658-00).

NOTE: 19-17658-00 can be substituted by 19-25996-01.

Customer Impact/Recommendations:

There is no customer impact.

ECO Number: 5424588-TA005

Part: Main Logic Board

Revision:	54-24588-01	C01 - C02
	54-24588-02	E01 - E02
	54-24588-03	E01 - E02
	54-24588-04	D01 - D02
	54-24588-05	D01 - D02
	50-24587-01	B01 - B02

Component: Main Logic Board Etch

Severity: Low

ECO Issue Date: September 3, 1996

Type of Notification: Customer action required if experiencing hang problems under Windows NT 3.51 playing AVI files

Change Description: Re-layout of main logic board to incorporate rework. Modification to address a problem under Windows NT 3.51 and AVI files.

Problem Description:

1. Improve manufacturing by:
 - Open solder mask near game port position.
 - Remove solder mask on pcb side two near J6 and J7 position.
2. Nashoba in Windows NT3.51 will hang/trap when playing AVI file.

Solution:

Re-layout PCB to revision B02 to eliminate the rework.

Disconnect REQ2,GNT2 into VGA chip.

Customer Impact/Recommendations:

Customers with earlier revision main logic boards may experience problems playing AVI files under Windows NT 3.51.

ECO Number: 5424588-TA004

Part: Main Logic Board

Revision:	54-24588-01	C01 - C01
	54-24588-02	D01 - E01
	54-24588-03	D01 - E01
	54-24588-04	C01 - D01
	54-24588-05	C01 - D01

Component: EMI Clip, Cut PCB Etch

Severity: High

ECO Issue Date: September 12, 1996

Type of Notification: Customer action required if experiencing hang problems under Windows NT 3.51 playing AVI files

Change Description: Modification to improve EMI margin, etch cut to correct problem under Windows NT 3.51

Problem Description:

Improve FCC EMI margin.

PCB etch cut to disconnect REQ2 and GNT2 to video chip on -02/04 version PCB.

Solution:

1. Open mask on near game port position.
2. Add an EMI clip. P/N 74-50814-01, near game port position on MLB 54-24588-03/05.
3. Etch cut at IC E36 pins 197 and 198 to pins 2 and 3 of Z58.

Customer Impact/Recommendations:

Customers with earlier revision -02 and -04 boards will experience hang problems running AVI files under Windows NT 3.51.

ECO Number: 5424588-TA006

Part: Main Logic Board

Revision:	54-24588-01	C01 - D01
	54-24588-02/-03	E01 - F01
	54-24588-04/-05	D01 - E01
	54-24588-01	C02 - D02
	54-24588-02/-03	E02 - F02
	54-24588-04/-05	D02 - E02

Component: Capacitor

Severity: Low

ECO Issue Date: September 16, 1996

Type of Notification: Customer upgrade needed if RTC is problematic

Change Description: Update to Real Time Clock on Main Logic Board

Problem Description:

The Y1 crystal/oscillator circuit has high failure rate at start-up. The system clock frequency (14.318181MHz) precision may be affected.

Solution:

1. C172 : was 33pf (10-38589-09); is 27pf (10-38589-08).
2. C173 : was 33pf (10-38589-09); is 30pf (10-38589-27).

Customer Impact/Recommendations:

Customer will require update if the real time clock inaccuracy is present.

ECO Number: 7032546-TA001

Part: CPU Assembly

Revision: 70-32546-01 A01

Component: CPU Assembly

Severity: Low

ECO Issue Date: September 19, 1996

Type of Notification: No Customer Action Required

Change Description: Allow substitute component

Problem Description:

Add CPU P54c-200 single processor type as substitute part.

Solution:

21-47163-03 (single processor type) is a substitute part of 21-47163-02 (dual processor type).

Customer Impact/Recommendations:

Customers may receive new product with the substitute component.

ECO Number: FRA70WW-TA002

Part: Kernel

Revision: FR-A70WW-A0 B01 - B02

Component: Second IDE Cable

Severity: Low

ECO Issue Date: September 23, 1996

Type of Notification: No Customer Action Required

Change Description: Removal of second IDE Cable from units w/o CD-ROM

Problem Description:

1. Remove the second IDE cable from the kernel level.
2. A cable will be provided with the CD-ROM option.

Solution:

Remove 17-03461-12 from FR-A70WW-A0 (Venturis FX KERNEL).

Customer Impact/Recommendations:

Customers will receive the secondary IDE cable with the CD-ROM accessory. Customers purchasing units with installed CD-ROM will not be affected.

ECO Number: 5424544-TA014

Part: Main Logic Board

Revision:	54-24544-01	F06 - H06
	54-24544-02	F06 - H06
	54-24544-03	F06 - H06
	54-24544-04	F06 - H06
	54-24544-05	F06 - H06
	54-24544-06	C02 - D02
	54-24544-07	C02 - D02
	54-24544-08	C02 - D02

Component: BIOS

Severity: High

ECO Issue Date: October 16, 1996

Type of Notification: Customer is advised to update to the latest BIOS

Change Description: Update BIOS via Flash Utility

Problem Description:

- I. Implement BIOS v1.07 on 54-24544-01,-02,-03,-04,-05 to correct:
 1. 2.88MB Floppy diskette write error in Win 95.
 2. System hangs during AMIDIAG 5.10d memory test with 2 EDO SIMMs and 1 FP SIMM.
 3. Add support for SiS 5511 F2 and 5513 C1 stepping chip set.
 4. User can't disable <F2> Setup prompt display while BIOS POST test is running.
 5. BIOS SETUP hangs when NT restarts the system and user enters Setup and waits 10 minutes.
 6. Add support for AMD K5 CPU.
 7. Add-on cards (AHA-2940, DE450 with ROM) causes BIOS POST to wait for user to press the <F1> or <F2> key.
 8. Win 95 remote Setup hangs with DE500 network error.

- II. Implement Japan BIOS v1.02 on 54-24544-06,-07,-08 to correct:
 1. Add support for single SIMM populated on bank 1/2.
 2. IBM 3270 token ring NIC to work properly on system.
 3. Some devices cannot change their resources dynamically in Windows 95.
 4. Windows NT hangs intermittently if DE21040/21041 driver is installed.

5. Windows 95 SCT v5.10 APM test failed.
6. Audio is set to mute if the system resumes from standby mode under Windows 95.
7. Mouse device cannot be changed dynamically in Windows 95.
8. Bootable CD boot failed in Toshiba CD-ROM 5602B(8X).
9. Windows 95 hangs if odd number of EDO memories are installed.
10. EDO memory performance.
11. 2.88MB Floppy diskette write error in Win 95.
12. System hangs during an AMIDIAG 5.10d memory test with 2 EDO SIMMs and 1 FP SIMM.
13. Don't support new SiS 5511 F2 and 5513 C1 stepping chip set.
14. User can't disable <F2> Setup prompt display while BIOS POST.
15. BIOS SETUP hang when NT restart system then user enter Setup and wait 10 minutes.
16. Does not support AMD K5 CPU.
17. Add-on cards (AHA-2940, DE450 with ROM) causes BIOS POST to wait for the user to press the <F1> or <F2> key.
18. Win 95 remote Setup hangs via DE500 network installation.
19. The 5.25" floppy reading and formatting sometimes fail.
20. BIOS functions "[virus check reminder]/[system backup reminder]" fail.
21. Test program "floppy.exe d" fails.

Solution:

Update BIOS via Flash utility.

Customer Impact/Recommendations:

The Customer is advised to update to the latest BIOS revision.

ECO Number: 5424588-TA008

Part: Main Logic Board

Revision:	54-24588-01	D01 - E01
	54-24588-02/-03	F01 - H01
	54-24588-04/-05	E01 - F01
	54-24588-06	A01 - B01
	54-24588-01	D02 - E02
	54-24588-02/-03	F02 - H02
	54-24588-04/-05	E02 - F02
	54-24588-06	A02 - B02

Component: Flash BIOS

Severity: High

ECO Issue Date: November 6, 1996

Type of Notification: Customer is advised to update to the latest BIOS

Change Description: Update BIOS via Flash Utility

Problem Description:

- I. Implement BIOS v1.07 on 54-24588-01,-02,-03,-06 to correct:
 1. 2.88MB Floppy diskette write error with Win 95.
 2. System hangs during AMIDIAG 5.10d memory test with 2 EDO SIMMs and 1 FP SIMM.
 3. Add support for SiS 5511 F2 and 5513 C1 stepping chip set.
 4. User can't disable <F2> Setup prompt display while BIOS POST test is running.
 5. BIOS SETUP hangs when NT restarts the system and user enters Setup and waits 10 minutes.
 6. Add AMD K5 CPU support.
 7. Add-on cards (AHA-2940, DE450 with ROM) causes BIOS POST to wait for the user to press the <F1> or <F2> key.
 8. Win 95 remote Setup hangs with DE500 network error.

II. Implement Japan BIOS v1.02 on 54-24588-04,-05 to fix below problems.

1. Add support for single SIMM populated on bank 1/2.
2. IBM 3270 token ring NIC to work properly on system.
3. Some devices cannot change their resources dynamically in Windows 95.
4. Windows NT hangs intermittently if DE21040/21041 driver is installed.
5. Windows 95 SCT v5.10 APM test failed.
6. Audio is set to mute if the system resumes from standby mode under Windows 95.
7. Mouse device cannot be changed dynamically in Windows 95.
8. Bootable CD boot failed with Toshiba CD-ROM 5602B(8X).
9. Windows 95 hangs if odd number of EDO memory be installed.
10. EDO memory performance.
11. 2.88MB Floppy diskette write error in Win 95.
12. System hangs during AMIDIAG 5.10d memory test with 2 EDO SIMMs and 1 FP SIMM.
13. Add support for SiS 5511 F2 and 5513 C1 stepping chip set.
14. User can't disable <F2> Setup prompt display while BIOS POST.
15. BIOS SETUP hangs when NT restarts the system and the user enters Setup and waits 10 minutes.
16. Add support for AMD K5 CPU.
17. Add-on cards (AHA-2940, DE450 with ROM) causes BIOS POST to wait for the user to press the <F1> or <F2> key.
18. Win 95 remote Setup hangs with DE500 network error.
19. Intermittent 5.25" floppy reading and formatting problem.
20. "BIOS functions [virus check reminder]/[system backup reminder]" fail.
21. Test program "floppy.exe d" fails.

III. System does not meet PCI 2.1 compliance.

Improve DRAM controller performance.

Solution:

Update system BIOS.

Customer Impact/Recommendations:

The customer is advised to update to the latest BIOS revision.

ECO Number: ECR MAG 027

Part: FX

Revision: N/A

Component: 1.6 GB IDE HDD and 8X CD-ROM

Severity: Low

ECO Issue Date: November 26, 1996

Type of Notification: No Customer Action Required

Change Description: Allow substitute components

Problem Description:

P/N PCXRA-AH (1.6GB HDD Drive IDE) and P/N PXCRRN-AG (8X CD ROM) are not contained on KPL's as substitute Parts.

Solution:

1. Add P/N PCXRA-AH and P/N PXCRRN-AG to KPL's as Substitute Part Numbers.
2. Driver files available on PC Support Engineering Webpage:
 - Dos/WFW driver for FR-PCXRN-AF, Toshiba 8X CDROM; CT00000A.EXE
 - Dos/WFW driver for FR-PCXRN-AG, LG Electronics 8X CDROM; C8GS124A.EXE
(LG Electronics drive added as acceptable substitute)

Customer Impact/Recommendations:

Customers ordering new systems may receive these substitute components.

ECO Number: 5424588-TA009

Part: Main Logic Board

Revision:	54-24588-01	E01 - F01
	54-24588-02/-03	H01 - J01
	54-24588-04/-05	F01 - F01
	54-24588-06	B01 - C01
	54-24588-01	E02 - F02
	54-24588-02/-03	H02 - J02
	54-24588-04/-05	F02 - F02
	54-24588-06	B02 - C02

Component: Flash BIOS

Severity: High

ECO Issue Date: December 5, 1996

Type of Notification: Customer is advised to update to the latest BIOS

Change Description: Update BIOS via Flash Utility

Problem Description:

1. System boot hangs if SiS 5511 F2 stepping and Burst Mode SRAM installed.
2. Olicom NIC failed.
3. 3C509B NIC with boot ROM causes system hangs at "Setup Power Management" of POST.
4. BIOS doesn't identify P55C CPU.
5. Win 95 cannot find mouse. Hangs after user changes the mouse driver and restarts the system.
6. BIOS doesn't support AMD-K6.

Solution:

Change BIOS version from 1.07 to 1.08.

Customer Impact/Recommendations:

The Customer is advised to update to the latest BIOS revision.

ECO Number: MAG-029

Part: FX

Revision: N/A

Component: Windows NT 4.0a

Severity: Low

ECO Issue Date: December 10, 1996

Type of Notification: No Customer Action Required

Change Description: Change from Windows NT 4.0 to 4.0a

Problem Description:

Win NT 4.0a was released after 4.0 on some languages.

Solution:

Add Win NT 4.0a parts to KPL and remove Win NT 4.0 parts from KPL.

Customer Impact/Recommendations:

Customers ordering new systems may receive NT 4.0a.

ECO Number: 5424544-TA015

Part: Main Logic Board

Revision:	54-24544-01	H06 - J06
	54-24544-02	H06 - J06
	54-24544-03	H06 - J06
	54-24544-04	H06 - J06
	54-24544-05	H06 - J06
	54-24544-06	D02 - D02
	54-24544-07	D02 - D02
	54-24544-08	D02 - D02

Component: BIOS

Severity: High

ECO Issue Date: December 18, 1996

Type of Notification: Customer is advised to update to the latest BIOS

Change Description: Update BIOS via Flash Utility

Problem Description:

1. System boot hangs if SiS 5511 F2 stepping with Burst Mode SRAM installed.
2. Olicom NIC failed.
3. 3C509B NIC with boot ROM hangs system at "Setup Power Management" of POST.
4. BIOS doesn't identify P55C CPU.
5. Win 95 cannot find mouse. Hangs after user changes the mouse driver and restarts the system.
6. BIOS doesn't support AMD-K6.

Solution:

Change BIOS version from 1.07 to 1.08.

Customer Impact/Recommendations:

The Customer is advised to update to the latest BIOS revision.

ECO Number: 5424588-TA010

Part: Main Logic Board

Revision:	54-24588-01	F01 - F03
	54-24588-02/-03	J01 - J03
	54-24588-04/-05	F01 - F03
	54-24588-06	C01 - C03
	54-24588-01	F02 - F04
	54-24588-02/-03	J02 - J04
	54-24588-04/-05	F02 - F04
	54-24588-06	C02 - C04

Component: Flash ROM socket

Severity: Low

ECO Issue Date: December 19, 1996

Type of Notification: No Customer Action Required

Change Description: Removal of Flash ROM Socket

Problem Description:

This change is for manufacturing efficiency only, no functional problems were present.

Solution:

Remove socket (XE5) from flash ROM (E5).

Customer Impact/Recommendations:

No customer impact.

ECO Number: TIO784#02/54-24544

Part: Main Logic Board - Japanese

Revision:	54-24544-01	K06 - K06
	54-24544-02	K06 - K06
	54-24544-03	K06 - K06
	54-24544-04	K06 - K06
	54-24544-05	K06 - K06
	54-24544-06	D02 - E02
	54-24544-07	D02 - E02
	54-24544-08	D02 - E02

Component: Flash BIOS

Severity: High

ECO Issue Date: January 6, 1997

Type of Notification: Customer is advised to update to the latest BIOS

Change Description: Update BIOS via Flash Utility

Problem Description:

1. System hangs with Burst SRAM.
2. System experiences memory parity errors and hangs with Olicom T/R PCI NIC installed.
3. Since 3COM 3C509B NIC use 5000:0 for its boot rom, system BIOS change MISER decompressed space from 5000:0 to 7000:0 for working around this problem.
4. BIOS doesn't Support P55C sign-on to "Pentium w/ MMX" in summary screen.
5. Win 95 cannot find mouse. Hangs after user changes the mouse driver and restarts the system.
6. BIOS doesn't Support AMD-K6 sign-on in summary screen.
7. BIOS doesn't Support AMD-K6 for APM.
8. BIOS doesn't support AMD-K5 PR150/166/200.
9. BIOS doesn't support model name display "5xxxk" for AMD K5/K6 and "5xxxM" for Intel P55C.
10. BIOS displays wrong model name "Venturis FX" for Bid Box model. Should display "Venturis FE".

Solution:

Implement BIOS v1.03.

Customer Impact/Recommendations:

The customer is advised to update to the latest BIOS revision.

ECO Number: 5424544-TA016

Part: Main Logic Board

Revision:	54-24544-01	J06 - K06
	54-24544-02	J06 - K06
	54-24544-03	J06 - K06
	54-24544-04	J06 - K06
	54-24544-05	J06 - K06
	54-24544-06	D02 - D02
	54-24544-07	D02 - D02
	54-24544-08	D02 - D02

Component: BIOS

Severity: High

ECO Issue Date: January 17, 1997

Type of Notification: Customer is advised to update to the latest BIOS

Change Description: Update BIOS via Flash Utility

Problem Description:

1. BIOS doesn't support AMD-K5 PR150/166/200.
2. BIOS doesn't support model name display "5xxxk" for AMD K5/K6 and "5xxxM" for Intel P55C.
3. BIOS displays wrong model name "Venturis FX" for Bid Box model. Should display "Venturis FE".

Solution:

Change BIOS from v1.08 to BIOS v1.09.

Customer Impact/Recommendations:

The Customer is advised to update to the latest BIOS revision.

ECO Number: 5424544-TA017

Part: Main Logic Board - Japanese

Revision:	54-24544-01	K06 - K06
	54-24544-02	K06 - K06
	54-24544-03	K06 - K06
	54-24544-04	K06 - K06
	54-24544-05	K06 - K06
	54-24544-06	D02 - E02
	54-24544-07	D02 - E02
	54-24544-08	D02 - E02

Component: BIOS

Severity: High

ECO Issue Date: January 17, 1997

Type of Notification: Customer is advised to update to the latest BIOS

Change Description: Update BIOS via Flash Utility

Problem Description:

1. System hangs with Burst SRAM.
2. The system experiences memory parity errors and hangs with Olicom T/R PCI NIC installed.
3. Since 3COM 3C509B NIC use 5000:0 for its boot rom, system BIOS change MISER decompressed space from 5000:0 to 7000:0 for working around this problem.
4. BIOS doesn't Support P55C sign-on to "Pentium w/ MMX" in summary screen.
5. Win 95 cannot find mouse. Hangs after user changes the mouse driver and restarts the system.
6. BIOS doesn't Support AMD-K6 sign-on in summary screen.
7. BIOS doesn't Support AMD-K6 for APM.
8. BIOS doesn't support AMD-K5 PR150/166/200.
9. BIOS doesn't support model name display "5xxxk" for AMD K5/K6 and "5xxxM" for Intel P55C.
10. BIOS displays wrong model name "Venturis FX" for Bid Box model. Should display "Venturis FE".

Solution:

Implement BIOS v1.03.

Customer Impact/Recommendations:

The customer is advised to update to the latest BIOS revision.

ECO Number: FJM-034

Part: Systems

Revision: Multiple revisions affected, note added to multiple KPL's

Component: DRAM SIMMS

Severity: Low

ECO Issue Date: January 20, 1997

Type of Notification: No Customer Action Required

Change Description: Alternate source of DRAM SIMMS

Problem Description:

Alternate DRAM SIMMs needed.

Solution:

Add part numbers 20-47330-17 and 20-47331-17 to KPL notes as alternate parts.

Customer Impact/Recommendations:

Customers may receive alternate DRAM SIMMs installed in systems.

ECO Number: 5424588-TA012

Part: Main Logic Board - Japanese

Revision:	54-24588-01	H03 - H03
	54-24588-02/-03	K03 - K03
	54-24588-04/-05	F03 - H03
	54-24588-06	D03 - D03
	54-24588-01	H04 - H04
	54-24588-02/-03	K04 - K04
	54-24588-04/-05	F04 - H04
	54-24588-06	D04 - D04

Component: Flash BIOS

Severity: High

ECO Issue Date: January 24, 1997

Type of Notification: Customer is advised to update to the latest BIOS

Change Description: Update BIOS via Flash Utility

Problem Description:

1. System hangs with Burst SRAM.
2. The system experiences memory parity errors and hangs with Olicom T/R PCI NIC installed.
3. Since 3COM 3C509B NIC use 5000:0 for its boot rom, system BIOS change MISER decompressed space from 5000:0 to 7000:0 for working around this problem.
4. BIOS doesn't Support P55C sign-on to "Pentium w/ MMX" in summary screen.
5. Win 95 cannot find mouse. Hangs after user changes the mouse driver and restarts the system.
6. BIOS doesn't Support AMD-K6 sign-on in summary screen.
7. BIOS doesn't Support AMD-K6 for APM.
8. BIOS doesn't support AMD-K5 PR150/166/200.
9. BIOS doesn't support model name display "5xxxk" for AMD K5/K6 and "5xxxM" for Intel P55C.
10. BIOS displays wrong model name "Venturis FX" for Bid Box model. Should display Venturis FE".

Solution:

Implement BIOS v1.03.

Customer Impact/Recommendations:

The customer is advised to update to the latest BIOS revision.

ECO Number: 5424588-TA013

Part: Main Logic Board

Revision:	54-24588-01	H03 - J03
	54-24588-02/-03	K03 - L03
	54-24588-04/-05	H03 - J03
	54-24588-06	D03 - E03
	54-24588-01	H04 - J04
	54-24588-02/-03	K04 - L04
	54-24588-04/-05	H04 - J04
	54-24588-06	D04 - E04

Component: Resistor

Severity: Low

ECO Issue Date: January 30, 1997

Type of Notification: No customer impact to existing product

Change Description: Running change to address SIMM margins

Problem Description:

The CAS_L signals output from SiS5511 chip (E20) are not properly damped for different DRAM SIMM loading.

Sympton:

Some light loading DRAM SIMMS can not pass the high voltage margin test.

Solution:

Replace the 22 ohm damping resistors with 33 ohm.

was: Z26, Z27, Z28, Z29: 22 ohm R. array (P/N 13-42606-09).

is: Z26, Z27, Z28, Z29: 33 ohm R. array (P/N 13-42606-02).

Customer Impact/Recommendations:

There is no customer impact. This increases voltage margins of SIMMs.

ECO Number: 5424588-TA014

Part: Main Logic Board

Revision:	54-24588-01	J03 - K03
	54-24588-02/-03	L03 - M03
	54-24588-04/-05	J03 - K03
	54-24588-06	E03 - F03
	54-24588-01	J04 - K04
	54-24588-02/-03	L04 - M0
	54-24588-04/-05	J04 - K04
	54-24588-06	E04 - F04

Component: Capacitor

Severity: Low

ECO Issue Date: January 30, 1997

Type of Notification: No customer action required

Change Description: Improve EMI margins. Add a second source for a component

Problem Description:

1. EMI margins are being improved.
2. Add second source to part number 21-39219-37.

Solution:

1. Insert 470PF capacitor P/N: 10-38587-31 on locations C278, C280, C282, C284, C291, C292, C293.
2. Add part number 21-43926-37, NPNX, 60ns FP for a substitution to 21-39219-37.

Customer Impact/Recommendations:

There is no customer impact.

ECO Number: 5424588-TA015

Part: Main Logic Board

Revision:	54-24588-01	K03 - K03
	54-24588-02/-03	M03 - M03
	54-24588-04/-05	K03 - K03
	54-24588-06	F03 - F03
	54-24588-01	K04 - K04
	54-24588-02/-03	M04 - M04
	54-24588-04/-05	K04 - K04
	54-24588-06	F04 - F04

Component: Integrated Circuit

Severity: Low

ECO Issue Date: January 30, 1997

Type of Notification: No Customer Action Required

Change Description: Allowing component substitution

Problem Description:

Phase-in SiS 5513 new Ab stepping.

Solution:

Part number 54-24588 KPL, add Note #103: 21-43842-01 can be substituted by 21-43842-03.

Customer Impact/Recommendations:

There is no customer Impact.

ECO Number: 5424588-TA016

Part: Main Logic Board

Revision:	54-24588-01	K03 - L03
	54-24588-02/-03	M03 - N03
	54-24588-04/-05	K03 - L03
	54-24588-06	F03 - H03
	54-24588-01	K04 - L04
	54-24588-02/-03	M04 - N04
	54-24588-04/-05	K04 - L04
	54-24588-06	F04 - H04

Component: Resistors

Severity: Medium to low, specific configurations affected

ECO Issue Date: February 13, 1997

Type of Notification: Customer action may be required

Change Description: Changing resistor values to accommodate stray currents from some printers

Problem Description:

DC On/Off switch will not function correctly if second serial/parallel option card is installed and connected to some printers while the printer remains powered on.

Solution:

1. R4 and R5: was: 13-40999-01 100K ohm
is: 13-23826-09 22K ohm
2. R9 and R10: was 13-42645-81 22K ohm
is: 13-42645-89 47K ohm

Customer Impact/Recommendations:

Customer is impacted only if using certain printers, when printer power remains on regardless of CPU power status, and the printer is connected to a second serial or parallel port card.

ECO Number: 5424588-TA017

Part: Main Logic Board

Revision:	54-24588-01	L03 - M03
	54-24588-02/-03	N03 - N03
	54-24588-04/-05	L03 - L03
	54-24588-06	H03 - H03
	54-24588-01	L04 - M04
	54-24588-02/-03	N04 - N04
	54-24588-04/-05	L04 - L04
	54-24588-06	H04 - H04

Component: On-board Video Integrated Circuit

Severity: Low

ECO Issue Date: February 13, 1997

Type of Notification: No Customer Action Required

Change Description: Main Logic Board modification to accommodate new video integrated circuit

Problem Description:

The S3 Trio64 parts will run out by end of 10/96.

The DDC was not supported.

Solution:

replace: E36: was TRio64 (21-40815-05);
is Trio64V+ (21-40815-06).

delete: Z51 0 Ohm resistor pack (13-42606-14)
R130 10K Ohm resistor (13-40998-73)
R132 33 Ohm resistor (13-40998-13)
R142 33 Ohm resistor (13-40998-13)
R146 0 Ohm jumper (13-38717-01)
R154 10K Ohm resistor (13-40998-73)
C202 0.1uF Ohm capacitor (10-38588-14)

add: E34 CD4052 (21-13630-61)
Z50 22 Ohm resistor pack (13-42606-09)
Z54 22 Ohm resistor pack (13-42606-09)
Z58 0 Ohm resistor pack (13-42606-14)
R138 10K Ohm resistor (13-40998-73)
R140 33 Ohm resistor (13-40998-13)
R143 33 Ohm resistor (13-40998-13)
R153 33 Ohm resistor (13-40998-13)

Customer Impact/Recommendations:

Customers may receive the substitute video chip and accompanying circuit changes.

ECO Number: MAG-042

Part: Systems

Revision: No revision change

Component: CDROM

Severity: Low

ECO Issue Date: February 17, 1997

Type of Notification: No Customer action required

Change Description: Allow use of alternate source of qualified 12X CDROM

Problem Description:

Manufacturing requires additional source of qualified 12X CDROM drives.

Solution:

Allow use of either PCXRN-AH (Toshiba 12X CDROM) or PCXRN-AI (Teac 12X CDROM).

Customer Impact/Recommendations:

Customers may receive either Teac or Toshiba 12X CDROMs installed in new product.

ECO Number: FJM-040/FRPCCAM

Part: Add-in Memory for Venturis FX

Revision: N/A

Component: Memory SIMMS

Severity: Low

ECO Issue Date: February 24, 1997

Type of Notification: No Customer Action Required

Change Description: Additional source of qualified SIMMs

Problem Description:

Alternate memory required in K-PL-FRPCCAM-0-DBP.

Solution:

Add part number 20-47331-17.

Customer Impact/Recommendations:

Customers may receive alternate source for qualified memory.

ECO Number: FJM-045/FRA80AW

Part: FX Systems

Revision: N/A

Component: Installed Hard Drive

Severity: Low

ECO Issue Date: March 11, 1997

Type of Notification: No Customer Action Required

Change Description: Additional source of qualified hard drive

Problem Description:

Alternate part needed for PCXRA-AM (2.5 GB IDE Hard drive, Quantum Sirocco).

Solution:

PCXRA-AQ is an acceptable substitute (2.5 GB IDE Hard drive, Western Digital).

Customer Impact/Recommendations:

Customers may receive Quantum or Western Digital 2.5 GB IDE hard drives in systems.

ECO Number: FJM-050/FRA70WW

Part: Venturis FX

Revision: N/A

Component: 2.5 GB IDE HDD and 8 X CD-ROM

Severity: Low

ECO Issue Date: March 18, 1997

Type of Notification: No Customer Action Required

Change Description: Additional sources of qualified peripherals

Problem Description:

Substitute part needed for the PCXRN-AF (Toshiba 8X CDROM) and PCXRA-AM (2.5 GB Quantum Sirocco IDE Hard Drive).

Solution:

1. Add note to KPLS, designating the PCXRN-AG (LG Electronics 8X CD-ROM) as an acceptable substitute for the PCXRN-AF.
2. Add note to KPLS, designating the PCXRA-AQ (2.5 GB Western Digital IDE Hard Drive) as an acceptable substitute for the PCXRA-AM.

Driver files available on PC Support Engineering Webpage:

1. Dos/WFW driver for FR-PCXRN-AF, Toshiba 8X CDROM; CT00000A.EXE.
2. Dos/WFW driver for FR-PCXRN-AG, LG Electronics 8X CDROM; C8GS124A.EXE (LG Electronics drive added as acceptable substitute)

Customer Impact/Recommendations:

Customers may receive the alternate source devices installed in new systems.

ECO Number: 5424588-TA018

Part: Main Logic Board

Revision:	54-24588-01	M03 - M05
	54-24588-02/-03	N03 - N05
	54-24588-04/-05	L03 - L05
	54-24588-06	H03 - H05
	54-24588-01	M04 - M06
	54-24588-02/-03	N04 - N06
	54-24588-04/-05	L04 - L06
	54-24588-06	H04 - H06

**Component: Integrated Circuit
Memory buffer**

Severity: High

ECO Issue Date: March 24, 1997

Type of Notification: Customer action may be required

**Change Description: Changing integrated circuit in response to a problem
experienced in manufacturing**

Problem Description:

With National Semiconductor 74F245 chip at E21 to E27 on MLB, system failed the Factory Installation (FIS).

Solution:

Apply a new part 19-20441-68 for 74F245 which excluded N.S. as qualified vendor.
Replace 19-20441-66 with 19-20441-68.

Customer Impact/Recommendations:

Potential Customer impact if customer has a National Semiconductor 74F245 chips on main logic board at locations E21 to E27.

ECO Number: 5424506/TA003

Part: FX Slim Riser Card

Revision: 54-24506-01 B02 - B03
54-24506-02 B03 - B04

Component: Capacitor

Severity: High if customer is using Adaptec 2940N SCSI adapter card

ECO Issue Date: April 21, 1997

Type of Notification: Customer action required if Adaptec 2940N card is in use

Change Description: Add capacitor per ECO

Problem Description:

System fails a parity check with AHA2940N SCSI card in riser slot.

Symptom:

Parity check error during file transfer between SCSI and IDE.

Solution:

Add 22 pf capacitor C99(P/N 10-24051-05) on side 2 :

1. Connect Pin 1 of 22 pf cap (C99) to Pin 104 of J10 on side 2.
2. Connect Pin 2 of C99 to Pin 108 of J10 with a ECO wire.

Customer Impact/Recommendations:

Customers utilizing the Adaptec 2940 adapter are advised to update the riser card.

ECO Number: 5424544/TA018

Part: Main Logic Board

Revision:	54-24544-01	K06 - L06
	54-24544-01	K06 - L06
	54-24544-03	K06 - L06
	54-24544-04	K06 - L06
	54-24544-05	K06 - L06
	54-24544-06	E02 - F02
	54-24544-07	E02 - F02
	54-24544-08	E02 - F02

Component: Capacitor

Severity: Low

ECO Issue Date: April 21, 1997

Type of Notification: No Customer action required

Change Description: Improve EMI margins, second source for component

Problem Description:

1. EMI margins are being improved.
2. Add second source to 21-39219-37 (60 ns 256K X 16 DRAM)

Solution:

1. Insert 470PF capacitor P/N : 10-38587-31 on locations C278, C280, C282, C284, C291, C292, and C293.
2. Add part number 21-43926-37, NPNX, 60ns FP as a substitution for 21-39219-37.

Customer Impact/Recommendations:

Customers may receive product with either source of DRAM. EMI changes do not affect end user performance.