\_ FCO KFMSB-AA-0001, Problems with KFMSB (T2029-AC) module

DIGITAL	FCO	CATEGORY [ O ]	PAGE 1 OF 6
FIELD CHANGE ORD	ER	NUMBER: KFMSB-AA-0	0001
module; The T20 this FCO is to make the thick that	029-AC module is part of make sure all field sto ith either the KFMSB or	systems which include a T20 of the option KFMSB. The reackrooms and supplies get protion or the T2029-AC module compliance with this FCO.	eason for urged.
Present hardware 1) The programma 2) The firmware 3) The firmware This FCO must be KFMSB (T2029-AC	in the present KFMSB (Te and firmware could crable timers will not exable timers the wrong hard does not support the Ie implemented completel), to function properly	rash or hang the system secute a 2 byte write proper dware and software revisions of the large state of the	=
	version of the KFMSB-Aule will be C02.	AA (T2029-AC) module, new	
on the parts lis	sted below; The module has already been implem E151 - 23-489K3-00	module for the following ide will have the following idented.	
If the KFMSB-AA been implemented		stamped C02; then the FCO	/ECO has
PRE/CO-REQUISITE N/A	FCO:		MFIT HRS
TOOL/TEST EQUIPM	ENT: 1.) Std FS tool	l kit and ESD kit	_ [
	FCO PARTS	INFORMATION	
FCO KIT NO.	DESCRIPTION OF CO	DNTENTS	

# FCO CHARGING INFORMATION (see last page)

Qty 1: T2029-AC module (Revision C02)

Qty 1: Field Application (FA) Document

EQ-01709-01

FA-05046-01

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	PARTS AVAILABILITY   09/30/94	FCO REVISION   A	FCO RELEASE DATE
		-	

# FIELD APPLICATION DOCUMENT (FA), Continuation Page

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WARNING:
 o For KFMSB(T2029-AC) modules presently in systems;
   It is suggested that the module be checked using
          quick check process, described in this FCO.
   This will entail setting up a convenient time with
   the customer, to bring system down to check the
   T2029-AC for FCO compliance.
      * o If system needs the FCO upgrade, a convenient
   time for a system shutdown, will need to be
   scheduled with the customer.
                                 To replace the
   system's earlier revision KFMSB(T2029-AC) module,
   with a compliant version CO2, of the module.
      * o To limit the customers inconvenience, during KFMSB
   compliance check, it would be best to bring along
   an FCO compliant version of the KFMSB.
          would allow, the checking and if necessary the
    replacement of a non FCO compliant KFMSB, during
   one customer visit.
PRE-INSTALLATION
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\* The PRE-INSTALLATION process will determine, if

\* this FCO has been implemented. This process will

\* also discuss what steps to take, if this FCO needs

\* to be implemented.

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### 1. PRE-INSTALLATION

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#### 1.1 STOCK ROOM SUPPLIES:

- a) VERIFY that all the KFMSB(T2029-AC) module(s) presently in stockrooms, comply with this FCO. Use the quick check process discussed in this FCO, to verify the necessity of this FCO.
- b) If any of the KFMSB(T2029-AC) module(s) in the stockroom need this FCO implemented, order the appropriate FCO kit to replace the out of revision module(s). You should consume the kit on a LARS form.

FIELD APPLICATION DOCUMENT (FA), Continuation Page

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#### 1.2 CUSTOMER SITE:

- a) To verify if the customers' T2029-AC module(s) require implementation of this FCO will require that a system shutdown occur.
- b) It is suggested that the unless the customer is reporting problems with the KFMSB(T2029-AC) module(s), the system shutdown be performed during a regularly scheduled maintenance visit or during a regularly scheduled customer system shutdown.
- c) VERIFY if the KFMSB(T2029-AC) module(s) require the implementation of this FCO. Use the quick check process, discussed in this FCO to verify the necessity of this FCO.

CAUTION \*\*\*

This module, as all other modules, contains

\* electrostatic discharge sensitive devices (ESDS).

#### 1.2.1 REPLACEMENT OF KFMSB MODULE

a) If the KFMSB(T2029-AC) module(s) need this FCO implemented, order the EQ kit. The revision of the T2029-AC module, with this (FCO/ECO) implemented will be C02.

NOTE: To limit customer inconvenience, if possible bring an FCO kit to the customer site during the PRE-INSTALLATION check. This way the FCO compliance check and the replacement of the non-compliant KFMSB can be accomplished, during one customer visit if necessary.

- b) Once you have received the new KFMSB module(s), verify that they have the FCO implemented. Use the quick check process in this FCO for FCO verification.
- c) Refer to the INSTALLATION section of this FCO (section 5), for installation sequence.

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3. Tools

3.1 Use Standard Field Service tool kit with ESD kit.

\* This module, as all other modules, contains \*

\* electrostatic discharge sensitive devices (ESDS). \*

\* The use of the VELOSTAT kit is essential to prevent \* damage which may not be noticed immediately. \*

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## 4.1 Set up VELOSTAT KIT

- 4.1.1 Unfold the VELOSTAT mat to full size (24" x 24").
- 4.1.2 Attach the 15 foot ground cord to the VELOSTAT snap fastener on the mat.

- 4.1.3 Attach the alligator clip end of the ground cord to a good ground on the cabinet.
- 4.1.4 Attach the wrist strap to either wrist.

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- 5. Installation
- 5.1 SYSTEM SHUTDOWN
  - a) Bring new KFMSB(T2029-AC) module(S) to the customer site.
- b) Bring system down using the customer's preferred shutdown process.
- c) Locate the KFMSB(S) that do not have this FCO implemented.
- d) Make sure all system power is off and that no power is on the XMI bus with the KFMSB(S) to be replaced.

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e) Replace the KFMSB(S) effected by this FCO, with the new KFMSB(S) that have his FCO implemented.

- \* This module, as all other modules, contains \*

  \* electrostatic discharge sensitive devices (ESDS). \*
- \* The use of the VELOSTAT kit is essential to prevent \* damage which may not be noticed immediately. \*

- f) Then turn on all power supplies and prepare for a system power up.
- g) Once power has been restored to the system refer to the verification section of this FCO (section 6.) for the completion of this installation.

NOTE: It is suggested that no system reboot be attempted,

until the verification section has been completed.

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VERIFICATION	
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## 6. Verification

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- 6.1 FUNCTIONAL CHECK
- a) Verify self test performs without errors.

  If LED lights, then self test has passed successfully.
- b) Boot the system software, following any preferred customer process.
- c) Verify that all the DSSI disks, used by customer are seen by the system, once software has completed its startup process.
- d) VERIFICATION IS COMPLETE

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AFTER SUCCESSFUL COMPLETION |

7. Report this FCO activity on the LARS form.

#### LARS

	USA	GIA	EUROPE
COVERAGE CODE			
(a)Contract	W	U	K
Warranty	W	U	W
Inhouse			A
Invoiced per Call			F
(b)IN-DEC Contract	K	Ū	
Non Contract/Non Warranty	F	F	
(c)RTD/Off-site Agreement	F	U	
Hardware Segment Code	111	111	
Product Line	031	031	
BBC code for K W A			111
BBC code for F			031

DEC Option			
Option ID	X	N/A	N/A
Type of Call	M	М	
REQUEST TYPE			I
Action Taken	D	D	
Action Taken	D	D	Y
QUALITY CODES			M,J,R,X,A,Z
Fail Area-Module-	KFMSB-AA-0001	KFMSB-AA-0001	KFMSB-AA-001
FCO-Comments			
Material Used	EQ-01709-01	EQ-01709-01	EQ-01709-01

- (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						NONW	ARRANTY/1	IONCON'	TRACT
ON-SI	LTE	OFF-9	SITE				MATERIAL ONLY		
TRAVEL/	EQ		EQ		TRAVEL/	EQ		EQ	ORDER-ADMIN, HANDLING
INSTALL	KIT	INSTALL	KIT	İİ	INSTALL	KIT	INSTALL	KIT	PKG,SHIPPING & EQ KIT
   DEC   	   DEC 	   DEC 	  DEC 		CUS	CUS	   CUS 	CUS	   CUS 