Control Module Instruction Manual

Control Module For Flash Microcomputer Programmer NET IMPRESS

FH807

Target Microcomputer: H8/3048F (HD64F3048)

DTS INSIGHT CORPORATION

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1 Overview

The FH807 is the control module for the NET IMPRESS, the advanced on-board flash microcomputer programmer.

The control module FH807 supports programming the flash ROM of Renesas H8/3048F and other equivalent flash microcomputers that have the same programming algorithm and protocol as Renesas H8/3048F.

The control module FH807 consists of the Compact Flash Card containing the programmer control software.

The free area of the Compact Flash Card can be used as the DOS file area to temporarily store your object file created on the host computer.

The control module FH807 is available in four types for your choice: /P64, /D64, /D256 and /D512. Choose an appropriate type according to capacity of the Compact Flash Card. /P64 supports up to 64Mbyte of the Compact Flash Card, while /D64 supports up to 64Mbyte of the Compact Flash Card, /D256 for up to 256Mbyte and /D512 for up to 512Mbyte.

With the D type, you can switch between the control module folders.

The probe cable are available in four types as the standard; AZ410, AZ411, AZ412 and AZ413. For probe cables of other types, contact your local distributor or us.

NOTES:

With the control module FH807, you can program the target microcomputer and other equivalent flash microcomputers that have the same programming algorithm and protocol as the target microcomputer. When you use this control module for microcomputers other than the target microcomputer and its equivalent microcomputers, you need to modify some of parameters in the control module using the optional remote controller (AZ490). For modifying parameters, see Chapter 5 of this manual.

The control module FH807 is designed to support programming microcomputers of a wide range and you can program a microcomputer of different programming voltage (Vpp) by changing parameters. Be sure to have good understanding on signal connection by carefully reading the Section 4 "Connecting to the Target System and Connector" before you use the control module.

Check once again with the below listed checkpoints if your microcomputer is supported by the control module FH807, or if your microcomputer has the same algorithm and protocol as those of the target microcomputer.

- (1) Is a programming method of your microcomputer same as the one of the target microcomputer?
- (2) Are the programming voltage (Vpp) and write control algorithm of your microcomputer the same as those of the target microcomputer?
- (3) Is the communication protocol for programming control of your microcomputer the same as the one of the target microcomputer?
- (4) For a microcomputer that uses the RAM loading type write control program, does it have an appropriate write control program? Also, are the specifications of the write control program same as those of the target microcomputer?

Contact your local distributor or us for any questions or unclear points.

CAUTION:

Using the control module that does not support the programming method of your microcomputer would lead to serious damage to your microcomputer and target system.

2 Specifications

2.1 Target Microcomputer and Specifications

For any items that are not specifically described here, the standard specifications of the NET IMPRESS are applied.

Control Module	FH807
Target Microcomputer	H8/3048F
User Flash Memory Capacity	128Kbyte
User Flash Memory Address	# 000000 to # 01FFFF
Programming Voltage (Vpp)	12.0V ±0.6V *1
Default	12.0V
Vccp (Minimum voltage during programming)	4.5V
Object File Format	Intel HEX Motorola S
	Binary
Default	Motorola S
Target Interface	UART (Asynchronous communication) Interface 2400/4800/9600/19200/31250/38400/62500/76800/10400bps □MSB first ■LSB first
	CSI (Synchronous communication) Interface 62.5Kbps/125Kbps/250Kbps/500Kbps/850Kbps/1.25Mbps MSB first ■LSB first
Data Transfer Format between Flash Microcomputer Programmer and Target System	Binary
Memory status when erased	#FF
MCU Clock during programming	1MHz to 16MHz

*1 When the Device Functions are not executed, the Vpp output (from the NET IMPRESS) is in the high-impedance state.

2.2 Setting Up Specific Parameters

Make the initial settings by using the AZ490, the remote controller running on Windows. For how to use the AZ490, see the AZ490 Instruction Manual.

2.2.1 Parameter Table1 Tab

Set up the parameters for your target microcomputer with the Parameter Table1 tab

Remote Control Mode Version 4.02				
TEST	YIM	Comm Break	Univ_Cmd	REMOTE
MCU TYPE	MODEL CODE	MICOM PACK No.	Port No.	REMOTE
FH807	FH807	FH807M00	TCP/IP	C EDIT
Parameter Table 2	Application-Read	File Transf	er 🔪	Communication
Host Interface Configuration	Basic Operation	Parameter Tabl	le 1	
MCU Type (FUNC D8) FH807				10KEY
TVcc Threshold (FUNC D3) 4.5	Μ		_	Module Select
Flash ROM (FUNC D6)	MCU Clock Frequer	ncy (FUNC DF) 16.0	[MHz]	YMN Execute
Last Address 0001FFFF	WDT Cleak Bariad	(UNO DA) [0000	- [mail	
DOM Disels Configuration		(FUNC D5) [20	[ms]	Save to HD
Group No. Start Address Blo	ick Size (byte) Interface(FUNC D1))		ОК
Group 2 00010000 0	0004000 0000200			Cancel
Group 3				
Group 5		<u> </u>		Exit
Group 6 Group 7	UART Baud Rate (FUNC D2) 76800	•	Version
Group 8 Group 9	CSI Baud Rate (FUNC D9) 500K	•	Remote Control 4.02
Group 10				Control Module
Group 11	BufferRAM Initializ	e Mode KEEP	-	12.00
Group 13		NC 9A) 1		Hardware
Group 14	SUM Check Mode (FU	NC 9C) 8/8bit		11.65

(1) TVcc threshold [FUNC D 3]

Set up a value about 10% lower than the minimum operation voltage of the target microcomputer. The NET IMPRESS senses the operation voltage (TVcc) of the target microcomputer and executes the Device Function when the TVcc gets higher than the specified value.

For setting up TVcc threshold at the side of the NET IMPRESS, see the NET IMPRESS Instruction Manual, Section 5. 4. 5 "TVcc Threshold Setting".

(2) Flash ROM (First Address, Last Address) [FUNC D6]

Set up the flash memory area (First Address, Last Address) embedded in the microcomputer.

You cannot set up flash ROM for the NET IMPRESS and this is only for display.

For details, see the NET IMPRESS Instruction Manual, Section 5. 4. 8 "Flash Memory Area Display".

(3) ROM Block Configuration

Set up the block configuration of flash memory.

Block Data Table:

The block data table consists of information of three kinds: Group No., Start Address and Block Size.

Group No:	You can specify up to 14 groups (Group1 to Group 14). A block group consists of memory blocks that have the same one block size on linear address. Group number is determined by the address order starting from lower address.
Start Address:	A starting address of a block group.
	The flash memory of the size specified in the Block Size

The flash memory of the size specified in the Block S sequentially continues, forming one block group.

Block Size: The NET IMPRESS understands that the flash memory blocks of a size specified in the Block Size are placed sequentially until a next block group address.

Example:

Group No.	Start Address	Block Size
1	#00F80000	#00008000
2	#00FA0000	#00010000
3	#0000000	#0000000

Block Start Address



Block Group 1

The above example shows the flash memory block which has 32K block size from #F80000 continues until a next block size starts (#FA0000).

Block Group 2

The above example shows the flash memory block that has 64K block sizes from #FA0000 continues until the last address (FFFFF) of the flash memory.

(4) MCU Clock Frequency [FUNC D F]

Set up a clock frequency for the target microcomputer in the range of 1.0MHz to 99.9MHz. Set up a value in a unit of 0.1MHz, which should be a maximum value smaller than the frequency you are using. For example, if you are using the frequency 10.15MHz, set up 10.1MHz.

For setting up operation frequency with the NET IMPRESS, see the NET IMPRESS Instruction Manual, Section 5.4.13 "Setting MCU Operation Frequency".

(5) MCU Operation Mode [FUNC D 4]

Set up an operation mode specific to the MPU.

For the FH807, this setting is not required.

(6) WDT Clock Period [FUNC D 5]

The NET IMPRESS has the function to output periodic clock pulse during programming. To use this function, you need to set up the WDT Clock Period.

The periodic clock pulse is output from the WDT signal (No. 18 pin) that is listed in the target probe signal list of Section 4.1 "Signal List".

For setting up the WDT signal with the NET IMPRESS, see the NET IMPRESS Instruction Manual, Section 5.4.7 "Setting Watch Dog Timer".

(7) Data Communication

This is the field to make communication settings between the NET IMPRESS and the target microcomputer. For the FH807, make the settings as follows.

• Communication Channel [FUNC D 1]

Select either UART (asynchronous communication) or SCI (synchronous communication). For setting up a communication method with the NET IMPRESS, see the NET IMPRESS Instruction Manual, Section 5. 4. 2. "Communication Channel Setting".

Channel No. [FUNC D 7]

Select "1". For setting up communication channels with the NET IMPRESS, see the NET IMPRESS Instruction Manual, Section 5. 4. 9. "Communication Channel Number Setting".

• UART Baud Rate [FUNC D 2]

This is not to be used.

For setting up the UART baud rate with the NET IMPRESS, see the NET IMPRESS Instruction Manual, Section 5. 4. 3. "UART Baud Rate Setting".

• CSI Baud Rate [FUNC D 9]

Set up 1.25Mbps as a communication speed for the CSI communication.

For setting up the CSI Baud Rate with the NET IMPRESS, see the NET IMPRESS Instruction Manual, Section 5. 4. 4. "CSI Baud Rate Setting".

(8) Additional Program, Block Alignment

These are not user-specified items and it is not necessary to change them.

(9) MCU Type [FUNC D 8]

The setting here will be displayed in the MCU TYPE field located at the top left of the Remote Control Mode window and the NET IMPRESS main unit.

You can type enter any characters up to 16 characters such as microcomputer's model name or device name you are using.

(10) OK

By clicking this "OK" button, you can send the settings on the Parameter Table 1 tab into the control module. Be sure to click the OK button before moving to other tabs so that you can make the changes of (1) - (9) valid. If you do not click the OK button, the changes will not be sent to the control module.

2.2.2 Basic Operation Tab

With the Basic Operation tab, you have the three features to work with as described below.

Remote Control Mode Version 4.0	2	_ 🗆 🗵
Curent IMPRESS Module		
TES	T.YIM Comm Break Univ_Cmd	REMOTE
MCU TYPE	MODEL CODE MICOM PACK No. Port No.	REMOTE
FH807	FH807 FH807M00 TCP/IP	C EDIT
Parameter Table 2	Application-Read File Transfer	Communication
Host Interface Configuration	Basic Operation Parameter Table 1	
File Operation	Device Function	10KEY
File Save (FUNC F1)	First Address 00000000 ERASE BLANK	Module Select
File Purge (FUNC F3)	Last Address 0001FFFF PROGRAM READ	YMN Execute
Current File (FUNC F4)	Verify Mode SUM READ E.P.R COPY	
		Save to HD
File List	Modified Bit Search Buffer Clear Block Store Buffer SUM	ОК
		Cancel
	END Address Data / SET +	Exit
		Version
All File Purge		Remote Control
- Buffer Area (EUNC E5)		Control Module
First Address 00000000		12.00
Last Address 0001FFFF	+	Hardware
		11.65

(1) Device Function [FUNC 0]

Set up a target area to execute the Device Functions such as reading, programming, etc.

Normally, set up the same area as those you set up for the Flash ROM as described in the Section 2.2.1 (2).

The Device Function Address [FUNC 0] is automatically aligned with the block boundary address of the flash memory by its specified address as shown in Figure 2-1. The Device Functions will be executed to thus automatically aligned area.

(2) Buffer Area [FUNC F 5]

Set up an area to save and load the data on the buffer memory of the NET IMPRESS (when you have a binary file). Normally, set the same areas as those for the Flash ROM as described in the Section 2.2.1 (2).

Figure 2-2 shows how the Device Function [FUNC 0], Buffer Area [FUNC F 5] and Flash ROM Area [FUNC D 6] relate with each other.

(3) OK

Click this "OK" button to send the settings on the Basic Operation tab into the control module. When you made changes to the above (1) and (2) settings, be sure to click the OK button before moving to other tabs. If you do not click the OK button, the changes will not be reflected.



FUNC 0 Address Setup & Address Alignment

Figure 2-1



2.2.3 Parameter Table 2 Tab

The Parameter Table 2 tab contains the parameters specific to the microcomputer. Therefore, be sure not to change any value in this window. In case you need to change the settings, be sure to contact our support center in advance.

Remote Control Mode Version 4.02					
TES1	L.YIM		Comm Break	Univ_Cmd	REMOTE
MCU TYPE		MODEL CODE	MICOM PACK No.	Port No.	© REMOTE
FH807		FH807	FH807M00	TCP/IP	
Host Interface Configuration	Basic Of	peration	Parameter Ta	able 1	Communication
Parameter Table 2	Application	-Read	File Transfe	er (
- Specific Parameter for this Cont	trol Module (FUNC	8X1			
					Module Select
00 01 02 03 04 05 0C0: 00 00 04 00 00 00	06 07 08 09	0A 0B 0C 0D 01 00 F3 BF	<u>0E</u> 0F 3B 00 <mark></mark>	····;·	YMN Execute
0D0: 00 00 00 00 00 00 0E0: 00 00 00 00 00 00		00 00 02 20 00 00 00 00		·····	Save to HD
	00 00 00 00	00 00 00 00	00 00 <mark></mark>	•••••	ок
140: 00 64 F5 3F 5B 00	00 00 00 00	00 00 00 00	00 00 <mark>.d.</mark> ?[•••••	Cancel
					Exit
These para Contact to	- WARN ameter shoul YDC in detai	ING - d not be cha ls.	anged.		Version Remote Control 4.02 Control Module 12.00 Hardware 11.65

2.3 Device Functions and Their Operation

The table below lists the operations to the flash memory that are executed when the NET IMPRESS starts the Device Functions.

Device Function		Erase	Blank Check	Program	Read	E.P.R	Сору
Target	A partial areas of flash memory by [FUNC 0] command (with Block Alignment)	Not executed	Not executed	Executed	Executed	Executed	Not executed
Area	Entire area of flash memory by [FUNC D6] command	Not executed	Not executed	Executed	Executed	Executed	Executed
		□Erase		■Erase *3		■Erase *3	
Operation to Flash Memory		□Blank	□Blank	□Blank		□Blank	
				■Program		■Program	
				■Read *1	■Read *2	■Read *1	
							■Copy *2

- *1: For the Read Verify operation that is executed at a time of the Device Functions E.P.R and Program, the Read Verify set up with the Read Verify mode (FUNC 99) is executed. To set up the Read mode with the NET IMPRESS, see the NET IMPRESS Instruction Manual, Section 5. 4. 19. "Read Mode Switchover".
 - (1) SUM READ VERIFY : The NET IMPRESS reads a sum value of an area where the device function Program is executed, and compares it with a SUM value of programmed data that is previously transferred when the device function Program is executed. (A sum value of an area where the device function Program is executed is calculated by adding 8-bit and 16-bit, while ignoring overflow.)
 - (2) FULL READ VERIFY : The NET IMPRESS resends data of an area where the device function Program is executed and compares with programmed data when executing the device function Program.
- *2: The device functions Read and Copy are executed using the Application Read function.
- *3: The Erase operation to flash memory erases the whole areas whatever target memory area is specified.

3 Copying Write Control Program into Microcomputer

3.1 Overview

With the control module FH807, the write control program (WCP) is sent to the target microcomputer to run on it before execution of the Device Functions. The microcomputer executes the programming sequence under this write control program.

Copy the write control program into the DOS area of the control module and save it under a file name with extension ".BTP" in advance.

Only one file with extension ".BTP" can be placed in the DOS area of the control module. You cannot place multiple files with extension "BTP" or use the control module without placing a file with extension ".BTP".



3.2 Copying the Write Control Program File

From the Utility Assy provided with the control module, select an appropriate write control program that has conditions matching with the target microcomputer.

To save the file with ".BTP" extension in the DOS area of the control module, follow the steps below.

(1) Set this control module in a personal computer that has a PCMCIA card slot. Make sure that the PC card driver has been properly installed in advance. For how to install the PC card driver, see our Web site at the following URL:

http://www.ydc.co.jp/micom/index_E.htm

See the Q & A page on the flash microcomputer programmer.

(2) Copy the write control program (xxx. BTP) from the Utility Assy into the DOS area of the FH807 control module.

4 Connecting to the Target System and Connector

4.1 Signal List

The table below lists signal example at the side of the target probe connector when using the control module FH807.

CPU Signal	NET IM	CPU Signal			
GND	GND	15		GND	GND
Vpp	TVpp1	16	2	TVccd	User Vcc
MD2	TVpp2	17	3	Vcc	
	WDT	(18)	4	TRES	
MD1	TAUX3 TVpp1c	(19)	5	/TRES	/RESET
Reserved	TAUX4 TVpp2c	20	6	тск	SCK1
	Reserved	21	7	Reserved	
	Reserved	22	8	Reserved	
MD0	TAUX	23	9	TAUX2 (TRW)	Reserved
BUSY	TBUSY	24	10	/TICS	
	ТІО	25	(11)	TAUX5 (/TOE)	
	TVccs	26	(12)	TMODE	Reserved
TxD1	TRxD	27	13	TTxD	RxD1
GND	GND	28	14	GND	GND

Tabl4-1: Target Probe Signal List (FH807)

- Be sure to connect the signals marked with "O" to the target system.
- The signals in dotted parentheses are also controlled for output. Connect them only when necessary.
- Though the signals listed as "reserved" are not to be used, they are being controlled. Therefore, be sure not to connect them to a circuit of the target system.

4.2 Model Connection to Target System



User Power Supply

(1) For the signals defined as shared terminals, multiplexing circuit of these signals must be provided to the user system.

/TICS signal is asserted only when the NET IMPRESS is performing the Device Functions.

/TICS signal multiplexes the signals connected to these shared terminals.

Multiplexing circuits are not required for a target system where these signals for write control are defined as the control signals for the flash microcomputer.

Inserting the multiplexing circuit into the user system can produce the same conditions with a state where the NET IMPRESS is not connected (i.e., the connector is unplugged) while /TICS signal is being negated (when the Device Functions are not executed).

(2) WDT Signal:

The clock signal defined with the WDT Clock Period [FUNC D 5] is generated from WDT signal terminal by the NET IMPRESS.

Connect this signal to the user circuit that requires the appropriate clock signal when programming the flash memory.

(3) TRES Signal:

The NET IMPRESS is provided with /TRES signal in the standard probe, which is an open collector type output so that it can make wired-or connection in the target system and be connected to /RESET signal of your microcomputer using the user circuit. /TRES signal can be used when the target system requires a reset signal of positive logic. TRES signal is a totem pole output signal.

4.3 Waveform of Control Signal



Programming mode

	NET IMPRESS Specification
TRLW1	350 ms (Minimum)
TRLW2	100 ms (Minimum)
TPR1	200 ms (Minimum)
TRMS1	50 ms (Minimum)
TRMS2	50 ms (Minimum)
TRMH	5 ms (Minimum)
TRRS	100 ms (Minimum)

*1: The dotted line " " indicates HIZ state.

- (1) Power on the NET IMPRESS first and the target system next.
- (2) /TICS signal is asserted by execution of the program command, and communication channel for programming is connected to the NET IMPRESS on the target system. (Multiplexing with this /TICS signal is not required for a system where communication channel and related signals for programming are exclusively used by the NET IMPRESS, independently from other user circuit.)
- (3) The NET IMPRESS asserts a reset signal to pull the target microcomputer into the programming mode.
- (4) TVpp is raised to the specified voltage.
- (5) The programming mode that is started by negating a reset signal starts communicating with the NET IMPRESS using a specified communication circuit.

Channels specified in the MPU Clock Frequency [FUNC D F] in advance will be selected for communication circuit.

- (6) When programming is finished, applying Vpp ends automatically.
- (7) The NET IMPRESS also negates /TICS signal. While /TRES signal is asserted, WDT signal continues to generate periodic pulse signal (the clock to input to a watchdog timer of the target system).

4.4 Probe

As the standard probes, four types of the probe (AZ410, AZ411, AZ412 and AZ413) are available for an additional order. Please contact us or your local distributor for ordering the probe.

For the connection diagram of each probe, see the NET IMPRESS Instruction Manual, the Section 8. 6. "Target Interface", or our Web site at the following URL:

http://www.ydc.co.jp/micom/product/probe.htm.

/AD (Pull-up Resistor) Assembly (Optional)

Most of I/O lines of the NET IMPRESS have $100K\Omega$ pull-down resistors between the GND line and signal lines.

Also, control lines from the NET IMPRESS that are used on the target system must be kept negated not to disturb the target system when connectors for the NET IMPRESS are removed.

It is recommended to either pull up the power or pull down the GND signal for these control lines with about $10K\Omega$ resistors on the user system.

In case the pull-up resistor of about $10K\Omega$ cannot be added to the control signals within the user system, use /AD Assembly which is available for an additional order.

/AD Assembly enables you to optionally add pull-up/pull-down resistors to the control lines running from the NET IMPRESS.



P.A. CABLE ASSY



5 Adapting to Derivative Microcomputers – Modifying Parameters

5.1 Minor Parameter Modification through the Keyboard of the NET IMPRESS

For the parameters that are defined by the function commands (FUNCTION D1 ~ FUNCTION DF) as described in the Section 5.4 "Parameters Settings" of the NET IMPRESS Instruction Manual, you can modify them through the keyboard of the NET IMPRESS. Parameters for communication interface with the target system, voltage of the target system, etc., for example, are the ones you can modify through the keyboard of the NET IMPRESS.

NOTE:

You cannot modify wide-ranging parameters and settings of the target microcomputer such as ROM block configuration of flash ROM address (FUNCTION D6) through the keyboard of the NET IMPRESS. For modifying them, it is recommended to use the remote controller AZ490 that is available for an additional order.

Also, the parameter list of actual microcomputers are available at our Web site. For details, contact your local distributor or us.

5.2 Modifying Parameters for Target Microcomputer using the Remote Controller

The remote controller software AZ490 for controlling the NET IMPRESS remotely from a PC is available for an additional order. This remote controller has the function to set up and confirm parameters besides the remote control capability. With the remote controller, you can set up and modify parameters including the following.

•MCU Type:	Name of a target microcomputer The name of a microcomputer displayed on the LCD of the NET IMPRESS can be customized.
•Flash ROM Area:	Flash memory area of a target microcomputer
•ROM Block:	Flash memory block alignment can be set up with address and size for each ROM group, enabling you to use the control module with derivative microcomputers.
 MCU Clock: 	MCU clock frequency
 Communication Interface: 	You can set up a communication interface with a target system.
•Other:	Microcomputer-specific information defined by the control module (i.e.,

parameters specified by pressing | FUNC \rightarrow 8 \rightarrow X |)

5.3 How to Modify Parameters Using Remote Controller Software (AZ490)



Connect a PC and the NET IMPRESS using Ethernet cable (10BASE-T) or RS-232c cable.

Insert the control module matching with the target microcomputer into the NET IMPRESS' card slot.

By running the remote controller on a Windows PC, you can modify or check parameter tables of the control module inserted in the NET IMPRESS.

With the remote controller AZ490, you can load and save parameters all at once. By saving parameter information generated with the remote controller in a PC, you can easily modify parameter tables for various derivative microcomputers of the same family.

Also, using this function, you can easily load the Micom Pack, which you download from our Web site, into the control module.

6 Replacing Definition Program

6.1 Overview

The IMPRESS MODULE has the function to support programming microcomputers that have different programming specifications from those of the target microcomputer. You can quickly replace the definition program using the definition program download function of the remote controller AZ490, instead of changing the control module. With this definition program replacement function, you can replace with other IMPRESS MODULE to program microcomputers of different programming specifications by adding the definition program license to the IMPRESS MODULE. The definition program license is available for your additional order. If you have any questions, contact your local distributor or us.



6.2 How to Replace Definition Program

By setting the IMPRESS MODULE added with a definition program license into the NET IMPRESS, you can replace the definition program of the control module using the definition program download function of the remote controller AZ490 (Control Module Load to HD button on the File Transfer tab). (Note that you cannot use this function if you are using the NET IMPRESS as stand-alone.) When you purchase the definition program license, download the definition program file ("xxx.CM"), which is in the floppy disk provided with the definition program license, into the IMPRESS MODULE.

Remote Control Mode Version 4.0	2		
Curent IMPRESS Module			
TES	T.YIM	Comm Break Univ_Cmd	
MCU TYPE	MODEL CODE	MICOM PACK No. Port No.	REMOTE
FH807	FH807	FH807M00 TCP/IP	O EDIT
Host Interface Configuration	Basic Operation	Parameter Table 1	
Parameter Table 2	Application-Read	File Transfer	Check
			101/EV
SUPER IMPRESS Module	Object Data	Parameter Table	IUKET
	To and From Buffer RAM	To and From Control Module	Module Select
TEST.YIM	Data Load	Parameter Load	
	Data Saua	Demonster Cours	YMN Execute
		Parameter Save	
	Download Data Check		
Select Create	-Bundle File	- Control Module	Save to HD
	To and From DOS Area	To and From Control Module	ок
Delete Copy			
Control File List	File Copy (Load)	Demnition Program Load	Cancel
	File Copy (Save)	Definition Program Save	
			Exit
	All File Purge	Licence Add Licence Read	
			Version
	-Buffer Area (ELINC E5)		
Copy (Load) File Purge		Block Store Buffer Clear	Control Madula
Copy (Save) All File Purge	First Address 00000000	Object Data Format (FUNC 5)	
	Last Address 0001FFFF	MOTOROLA S -	Hordwore
Control Module Format		,	

7 Notes and Cautions for Using Control Module

- (1) The control module FH807 is built for the flash microcomputer programmers NET IMPRESS. *DO NOT* use this control module for any flash microcomputer programmers other than the NET IMPESS series.
- (2) The control module FH807 is built tailored to the specific microcomputer. Do not use this control module for programming microcomputers other than the specified microcomputer. Using this control module for microcomputers other than the specified microcomputer would damage your target system.
- (3) The NET IMPRESS consumes power of several mA from Tvcc terminal to drive the interface IC with the target system (IC inside the NET IMPRESS).
- (4) Be sure NOT to initialize (format) the control module (Compact Flash Card). The control module contains the definition program (the control program), besides the DOS area where you can save your files. Initializing the control module results in destroying this control program.
- (5) DO NOT insert or remove the control module while the Device Functions or the Function key operations are being executed. Be sure not to insert or remove the control module from the flash microcomputer programmer while accessing it.
- (6) Use the flash microcomputer programmer with the control module inserted into it.