VF64 Series

Software for Flash Rom Writing Instruction Manual

This manual shows operation method of software for Flash ROM Writing (Vf64from.exe), that is a software to load a program onto Flash ROM mounted on VFC64 P.C.Boad.

This Paper describes for Vf64from.exe ,Version No. is Ver.2.3. or over Ver.2.3.

------ Contents -----

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1. Function of software for Flash ROM Writing

This software has following functions.

1) Function of Flash memory writing.

Load program onto Flash ROM in CPU mounted on VFC64 P.C.Boad.

Depending on the content of program to be written , there are 2 kinds of mode, BOOT Mode and User Progarm Mode.

As their Connection method is different from each other, see note explaned later.

2) Compare Function

Compare data written in Flash ROM and data of file(*.mot).

3) Show verify code

Verify code(check sum value) of File *.mot .

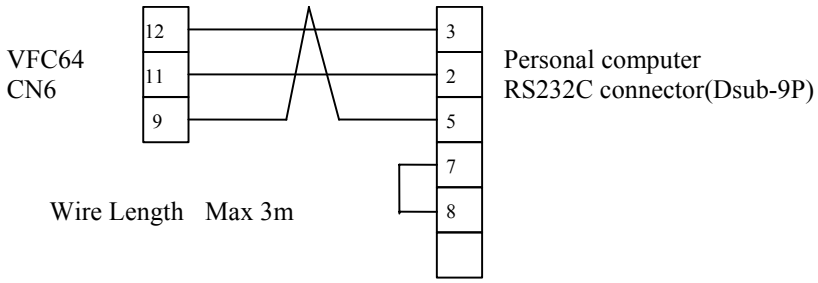
2. Hardware requirement

1) Personal computer whitch can use WINDOWS95(98)

2) Connecter

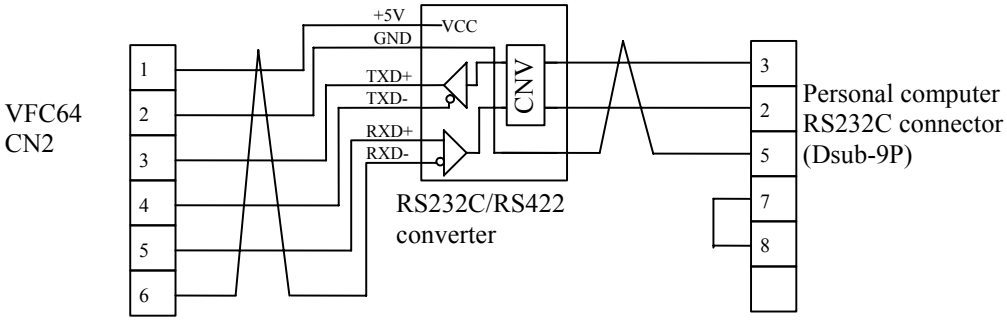
(1) User Program Mode and Compare Mode (in this paper , we call it 232C_Cable)

Fig.1



(2) Boot Mode (RS232C/RS422 level converter is Needed) (in this paper, we call Converter_Cable)

Fig.2



(RS232C/RS422 lebel converter is needed)

3. Install

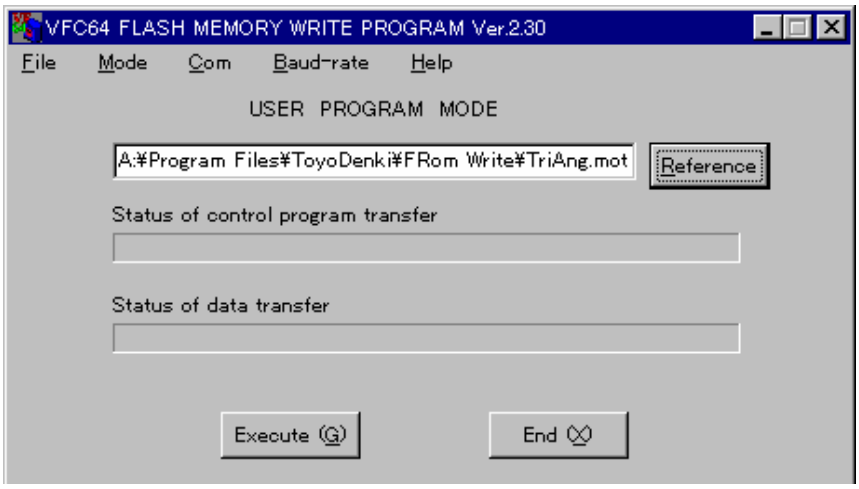
Execute Setup.exe of setup disk and input serial number given to you.

4. Uninstall

By “Control Panel” then "Addition and Deletion of Application", delete “64Series FRom Write”.

5. Startup of program

When Vf64from.exe is double-clicked, screen below(Main Screen) is displayed.



Explanation of menu

File ------- End ---------- End of program

Mode Selection ------- User Program ------ User Program Mode

Boot ---------- BOOT Mode

Compare ---------- Compare Mode

Verify Code --------- Verify Code Mode

COM Selection ------- COM1 ---------- COM No. of port of RS232C

COM2 (COM No is ordinary COM1. There is other

COM3 case depending on personal computer.)

COM4

Baud Rate Selection - 4800 -------- Selection of communication baud rate

9600 (Cannot select in case of compare mode)

19200 (About 19200 ordinary)

28800 (Increasing this, communication speed becomes

38400 faster but error probability becomes higher.)

Help ---------- Version Infomation -----Display of version infomation

6. Mode

In case of writing of program on flash ROM, there are following 2 modes.

1) BOOT mode

The mode to erase and rewrite all of flash ROM.

Use to write main software of VF64.

In case of writing of sequence and super block, use following user program mode.

When writing by this mode, write from terminal for console by signal of RS422.

In this case, cable of console must be removed.

2) User Program mode

The mode to rewrite a part of flash ROM.

Use to write program data of Sequence Function and Super Block Function.

Other mode are

3) Compare Mode

Use to compare of data written on flash ROM and file(.mot).

In this mode, baud rate is fixed to 9600bps.

4) Verify Code Mode

Use to read the Verify Code(check sum) value of .MOT file only.

7. Procedure of use

In BOOT Mode , file name of Main software data is to be known.

In User Program mode , the file of load data (.mot) should be made out by Sequence Editor, Super Block Editor, etc. in advance.

In Compare mode, name of the file to be compared to Flush ROM data is to be known.

!!! CAUTION !!!

SW3 and SW4 is to be handled only when power source of VF64 is removed and DC voltage is low.

Otherwise, VF64 may be broken.

1) BOOT Mode

(1) Confirm connection between Inverter (VFC64) and personal computer.

Connect a terminal of console and personal computer using a Converter_Cable. (RS422 converter is needed)

As to connection method, see Fig. 2.

The Cable of console should be kept removed.

(2) Select Mode, COM No, Baud Rate from menu.

(3) Input file name (.mot) .

(4) Press “execute” button..

(5) New massage is displayed.

After turning off of power source of VF64, set SW3 and SW4 on VFC64 P.C.Board at “ON” .

(6) Turn on power source of VF64 again, the mode turns to BOOT mode.

Press “OK”, then communication start and loading start.

(7) As loading is completed, new message is displayed.

After turning off of power source of VF64, set SW3 and SW4 on VFC64 P.C.Board at “OFF” .

(8) Turn on power source of VF64 again, the mode turns to ordinary mode .

2) User Program Mode

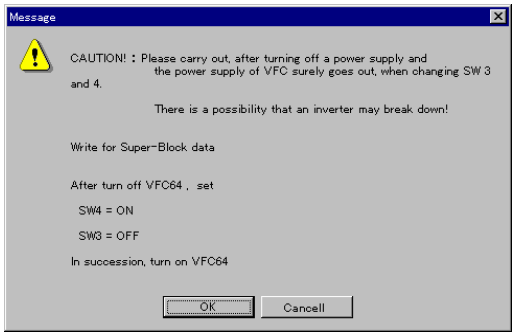
(1) Confirm connection between Inverter (VFC64) and personal computer.
Connect CN6 of VFC64 with personal computer using 232C_Cable.
As to connection method, see Fig. 1
The Cable of console may be connected.

(2) Select Mode, COM No, Baud Rate from menu.

(3) Input file name (.mot) .

(4) Press “execute” button..

(5) New massage is displayed.
After turning off of power source of VF64, set SW4 on VFC64 P.C.Board at “ON” (SW3 remains “OFF”).



(6) Turn on power source of VF64 again, the mode turns to BOOT mode.
Press “OK”, then communication start and loading start.

(7) As loading is completed, new message is displayed.
After turning off of power source of VF64, set SW4 on VFC64 P.C.Board at “OFF” .

(8) Turn on power source of VF64 again, the mode turns to ordinary mode .

3) COMPARE mode

(1),(2) ,(3),(4) Same as User Program Mode. Compare Mode start. Obey instruction of screen.

4) Verify Code Mode

(1) Connection between Inverter (VFC64) and personal computer is not necessary.

(2),(3),(4) Same as User Program Mode. Verify Code Mode start and display verify code.