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## 3. Software Upgrade and Installation

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### 3-1 Flash Memory Writing process

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**How to input software after changing Boot software and replacing Flash Memory.**

#### 3-1-1 JPI Setting Manual

1) JPI exe Program : Setting ver R1.80

Make C:\STM\ST20R1.80 folder in C and copy exe file.

Execute setup file in C:\STM\ST20R1.80 folder.

2) PC Setting

Execute vppi set in bin folder, opening C:\STM\ST20R1.80\bin folder

Port type in vppi set up : Auto Detect -> EPP

Access Mode : after altering Synchronous -> Interrupt,

Click Apply and close "vppi set up".

Open Regedit exe in Windows (O) : regedit

HKEY\_LOCAL\_MACHINE double click -> SYSTEM double click -> CURRENT CONTROL SET double click -> SERVICES double click -> VxD double click

vppi set click -> \*Access Mode : 0x00000002(2)

\*Port Type : 0x00000003(3)

◆ Following line should be added at Autoexec.bat of PC.

SET ST20ROOT=C:\STM\ST20R1.80

SET STVM\_HOME=C:\STM\ST20R1.80

SET TOOLSET=C:\STM\ST20R1.80

3) Caution

◆ When Defaulting in vppi set up (in case of not altering)

Access Mode : 0x00000003(3)

◆ Port Type : 0x00000000(0)

◆ When inputting boot program as JPI, following items should be omitted in C:\windows\system.ini file[386Enh].

device=C:\ST20SWC\tools\vwrun.386

device=C:\ST20SWC\tools\vb045st.386

device=C:\ST20SWC\tools\vb008st.386

\* If copied by PPI, above items should be included.

### 3-1-2 Boot Software Input Process (Same Process in Main Software Installing)

#### <How to install software using JPI Adapter>

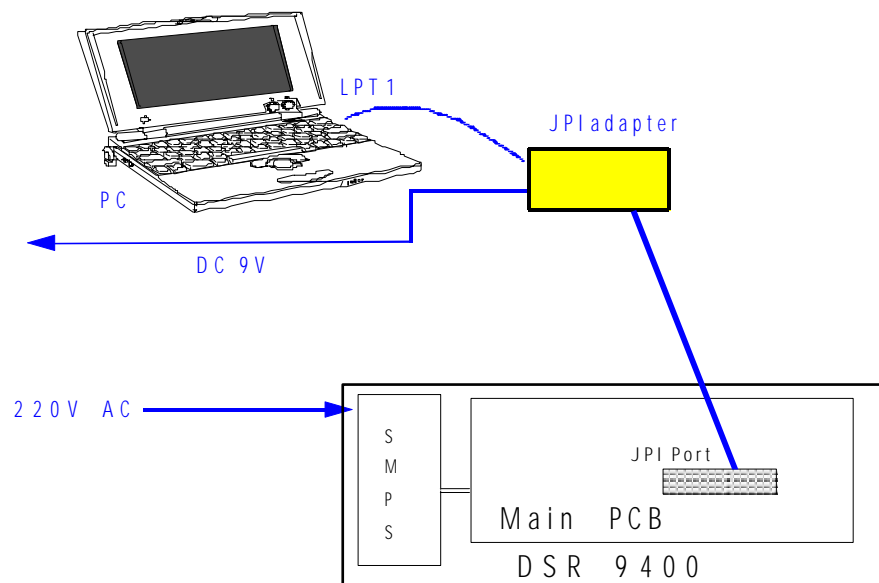


Fig. 3-1

- ❶ Prepare PC and JPI, DSR 9400 as above figure.
- ❷ Connect MAIN BOARD to JIG, JPI ADAPTER to JPI Port of MAIN PCB.  
Then JP102(Jumper) Short of Main Board.
- ❸ Approve a power source of POWER SUPPLY in the product set.
- ❹ Convert PC into MS-DOS MODE.
- ❺ Execute C:\amd-boot\flash file name (SETTING UP ST20 DCU TOOLSET 1.6.2 SETTING END)
- ❻ After the power source of POWER SUPPLY OFF.  
Then disassemble from JPI ADAPTER CONNECTER.

- ◆ SRF00902A (FTA) -> C:\amd-boot\flash boot\_FTA\_9400\_1
- ◆ SRV10902A (EM VIA) -> C:\amd-boot\flash boot\_VIACCESS\_9400\_1

“Message Check”

Program Start

Erased Block 65 OK!

Erased Block 66 OK!

Erased Block 67 OK!

Erased Block 68 OK!

Erased Block 69 OK!

received 65 block

entering fast mode programming sequence from C05e0000 to 7ffe0000

received 66 block

entering fast mode programming sequence from C05f0000 to 7fff0000

received 67 block

entering fast mode programming sequence from C05f8000 to 7fff8000

received 68 block

entering fast mode programming sequence from C05fa000 to 7ffa000

received 69 block

entering fast mode programming sequence from C05c0000 to 7ffc000

romtool : Operation Complete

Test Mode

### 3-1-3 MAIN Software Install Process

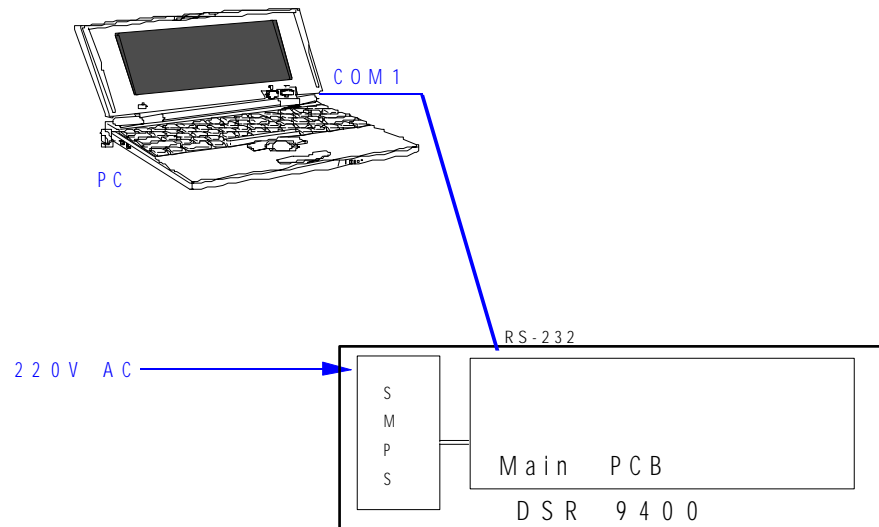


Fig. 3-2

- ❶ Open DSR.TRM file while executing HYPERTERMINAL of PC.  
 Port : Select to COM 1 port currently used.  
 Baudrate : 115200
- ❷ As Vol-up key of Front PCB presses, POWER(PLUG) ON.
  - ◆ SRF00902A : Samsung Brand FTA Model  
 Loader version x. x
  - ◆ SRV10902A : Samsung Brand EM VIACCESS Model  
 Loader version x. x
- ❸ Send a file at Download ROM image. ( PROTOCOL : 1K XMODEM )
- ❹ Select Main Program (C:\main\DSR9400\_2002\_04\_03\_120\_44D2.bin) by each kinds as selecting the File Send of Transfer or Hyperterminal.
- ❺ Check if the normal message appears.

## MEMO