Installing the SBC PCA 6751 on Dolev 4press and Dolev 800

Overview 2
Prerequisites.....2
Installing the hardware.....3
Verifying BIOS definitions 7
Updating the BIOS version 9
Installing software.....11
Affixing the label.....11

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Overview

This document describes how to install the Single Board Computer (SBC) PCA-6751 kit on any Dolev® 4press or Dolev 800 imagesetter.



Note: The SBC was formerly known as CPU.

Prerequisites

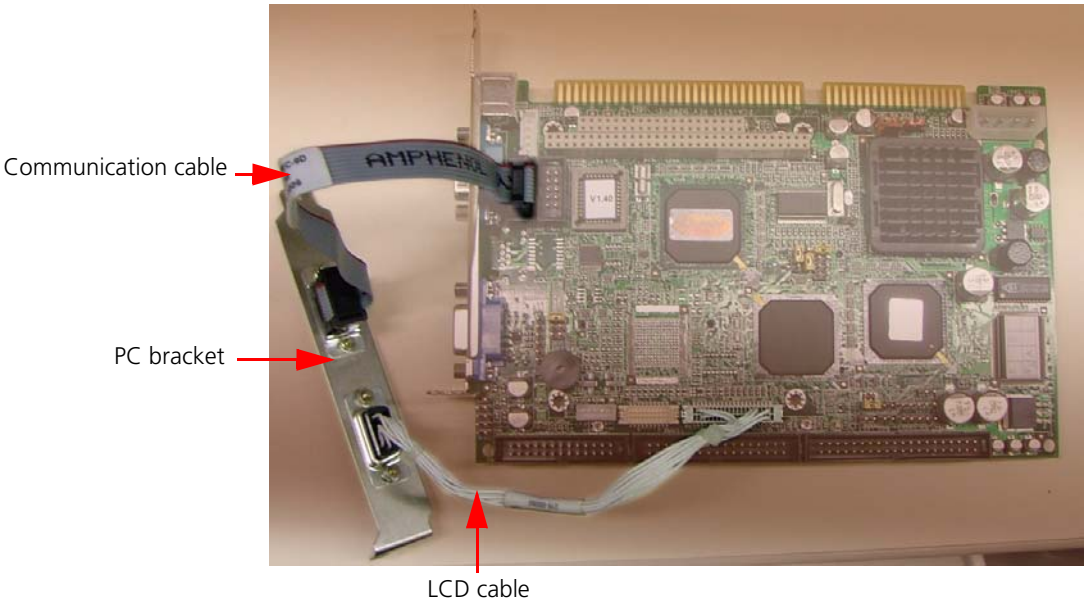
SBC PCA-6751 kit (part number 518-00625A) contains the following components:

Part number	Description	Quantity
609-00240	PCA-6751 SBC with 32 MB RAM	1
220-00553A	PC bracket for Advantech SBC (LCD & COM)	1
504N1L238	Rest [2 pin conn.]cable 4press	1
220-00509A	Reset cable DLV-800 Advantech	1
503-00192A	DOC_32M board assy	1
206-00002	Board support post, dual locking L=5/8	2
709-00214A	SBC kit procedure	1
651-00413A	SBC update for Dolev 800	1
651-00414A	SBC BIOS update for Dolev	1
651-00427A	SBC update for Dolev 4press	1
382-01342A	PCA-6751, board, connectors, label, for D800	1
382-01341A	PCA-6751, board, connectors, label, for 4PRS	1

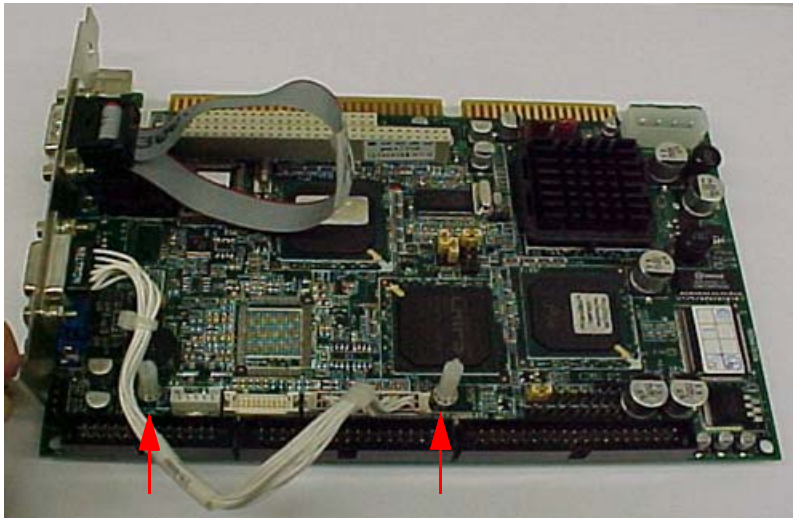
Installing the hardware

Important: Before removing the old SBC, save the machine parameters on a diskette.

1. Connect the PC Bracket (220-00553A) to the SBC board.
   - Communication cable—com port (CN15)
   - LCD cable—LCD display (CN5)



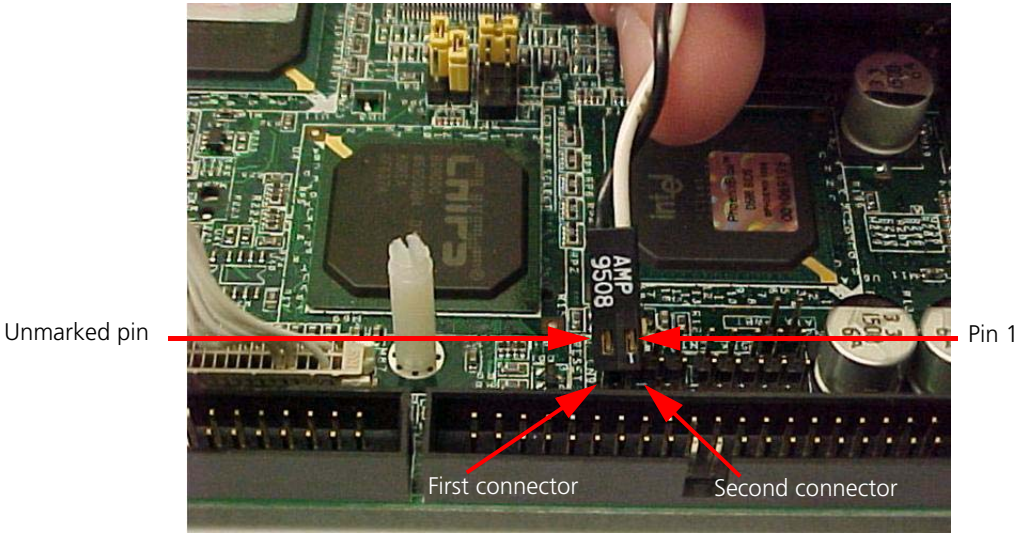
2. Connect the dual-locking board support post (part number 206-00002).



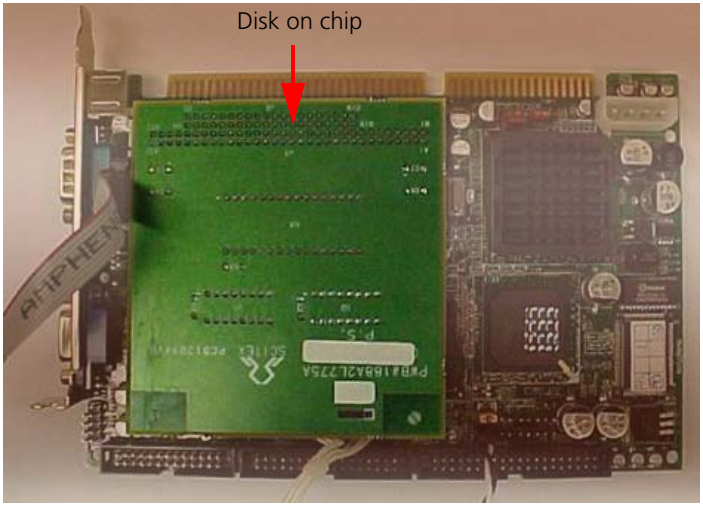
3. Choose the reset cable according to the product that you are using:

   - Dolev 4Press—use 504N1L238
   - Dolev 800—use 220-00509A

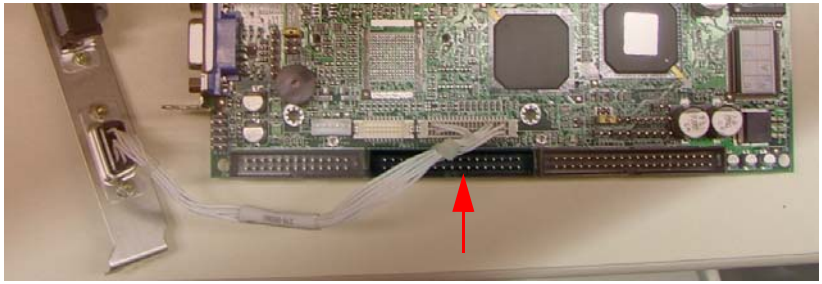
   Connect the pin marked "1" to the connector that appears second from left in the following illustration. Connect the unmarked pin to the first connector on the left. (CN26).



4. Connect the disc on chip (DOC, part number 503-00192A) as shown in figure #4 (CN12).

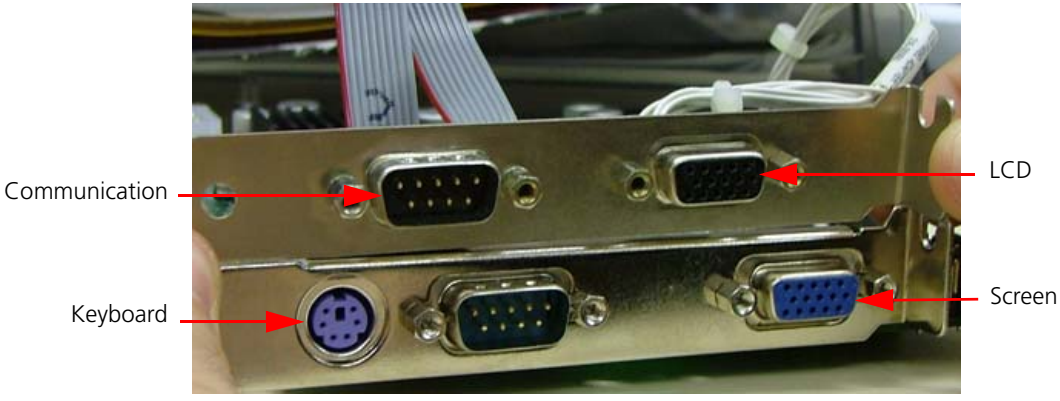


5. Insert the SBC and the bracket into the E-box.
6. Connect the IDE floppy disk flat cable to the SBC (CN1).



7. Connect the LCD cable (from the plotter harness) to the PC Bracket (220-00553A).
8. Connect the Communication cable (from the plotter harness) to COM1.

Note: For Dolev 4press (all versions) and Dolev 800 (version 1.034 and below) you may also connect the communication cable to COM2.



9. Connect the reset cable to the mother board.
10. Optional: Connect the external keyboard cable and screen cable.

Verifying BIOS definitions

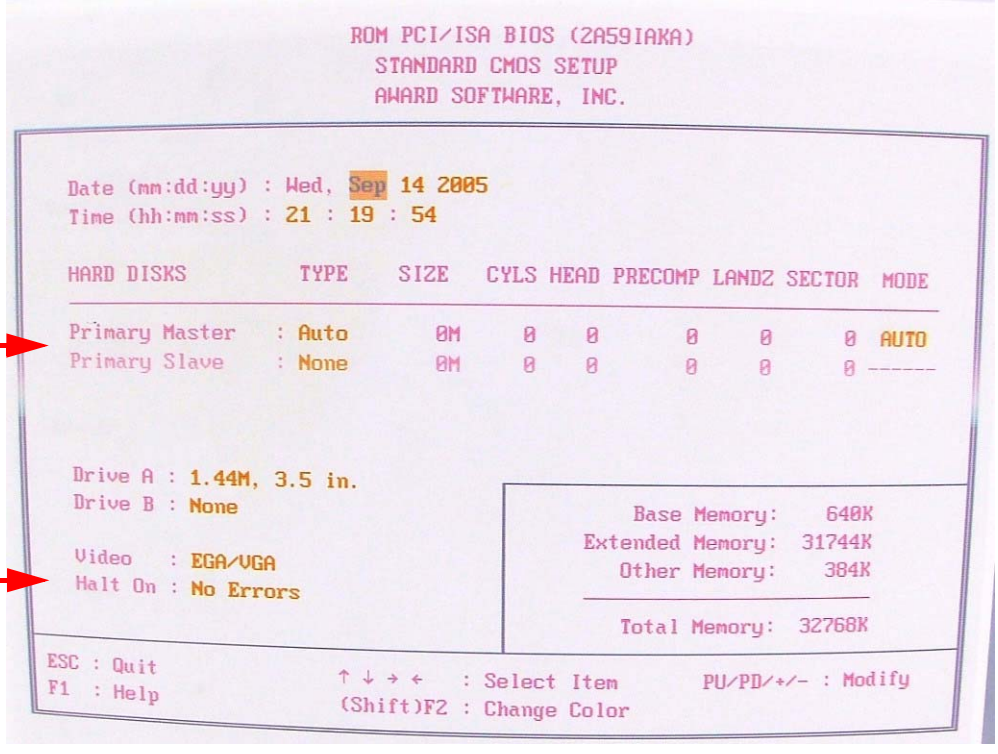
Before updating the new BIOS, verify BIOS definitions, as follows:

1. Start the imagesetter.
2. To enter the BIOS setup, press DEL.

Note: If you have a monochrome screen, to improve screen quality, in the BIOS menu, press F2.

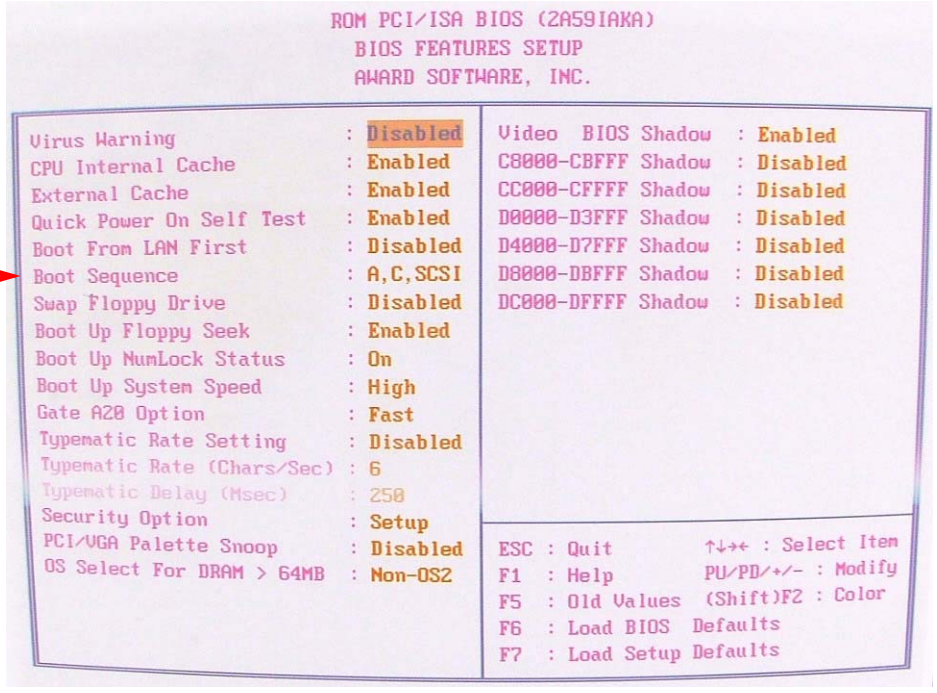
3. Select **Standard Coms Setup** and verify the values, as shown:

Variable	Value
Primary master	auto
Primary slave	none
Halt on	no errors



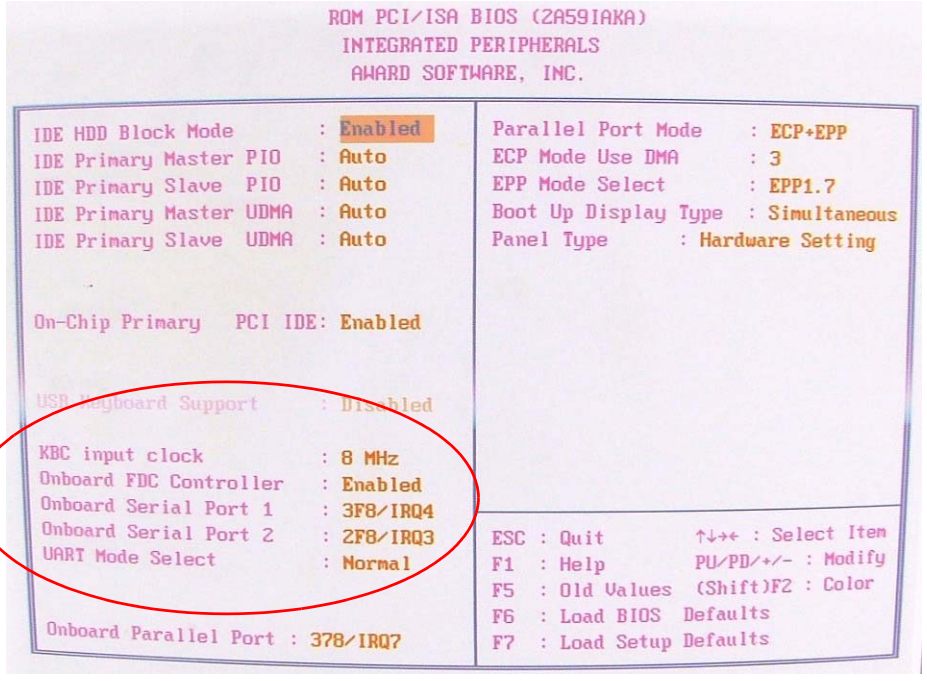
4. Select **BIOS features Setup** and verify the value, as shown:

Variable	Value
Boot sequence	A, C, SCSI



5. Select **Integrated peripherals** and verify the values, as shown:

Variable	Value
Onboard serial port 1	3F8/IRQ4
Onboard serial port 2	2F8/IRQ3
UART mode select	Normal



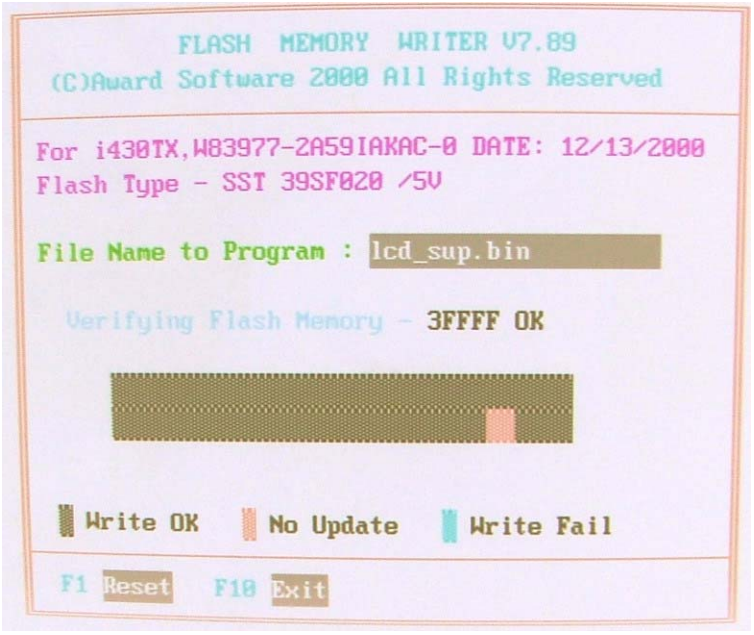
6. Save the settings and exit setup.

Updating the BIOS version

Note: Do not update the BIOS version until you have finished configuring the BIOS definitions.

CAUTION: Do not turn off the imagesetter until "write to bios" is completed.

7. In the floppy drive, insert the SBC BIOS UPDATE diskette (part number 651-00414A), and then restart the imagesetter.
8. When the "write to bios" process is complete, the progress bar appears full, as shown.



9. After the write to bios process is complete, remove the diskette and press F1 to restart the imagesetter.
10. Access the BIOS setup and verify that all the definitions are as you set them in the *Verifying BIOS definitions* section.
Change these settings if required.

Installing software

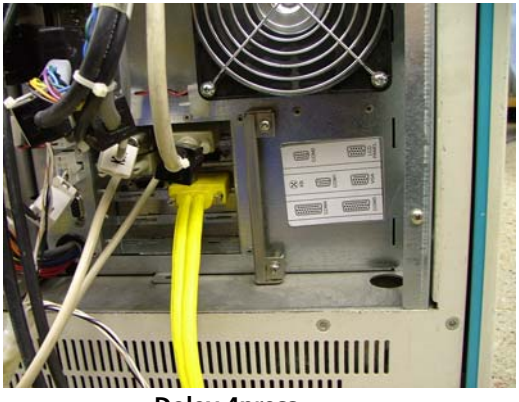
Important: Before formatting the disc on chip, save the machine parameters on a diskette.

Using the appropriate diskettes, perform the following:

- Format the disk drive.
- Install the micro version.
- Install the SBC UPDATE FOR DOLEV software:
  - ❒ Dolev 4press—use diskette 651-00427A
  - ❒ Dolev 800—use diskette 651-00413A
- Install diagnostics.

Affixing the label

1. Choose the appropriate label according to your imagesetter:
   - Dolev 4press—382-01341A
   - Dolev 800—382-01342A
2. Paste the label according to following figures:



Dolev 4press



Dolev 800