

**Control and  
Visualization Terminal  
BTV01.3**  
Servicing Guidelines

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DOK-SUPPL\*-BTV01.3\*HDD-MA02-EN-P

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**The purpose of this documentation** This documentation supports...

- servicing on BTV01.3

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**Attention** This documentation is printed on chlorine-free paper.

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# 1 Exchanging the Hard Disk in the BTV01.3

**Attention:** Hard Disks are highly sensitive to shock and vibrations!  
 The Hard Disk may only be replaced after **dismantling**  
 and if **no power** is being applied to the BTV01.3!

## 1.1 Removing the Hard Disk

- Switch machine off, dismantle and place it on its front.
- After removing the three mounting screws as illustrated in Figure 1-1, remove the Hard Disk holder and lay it on the right hand side on the back wall of housing.

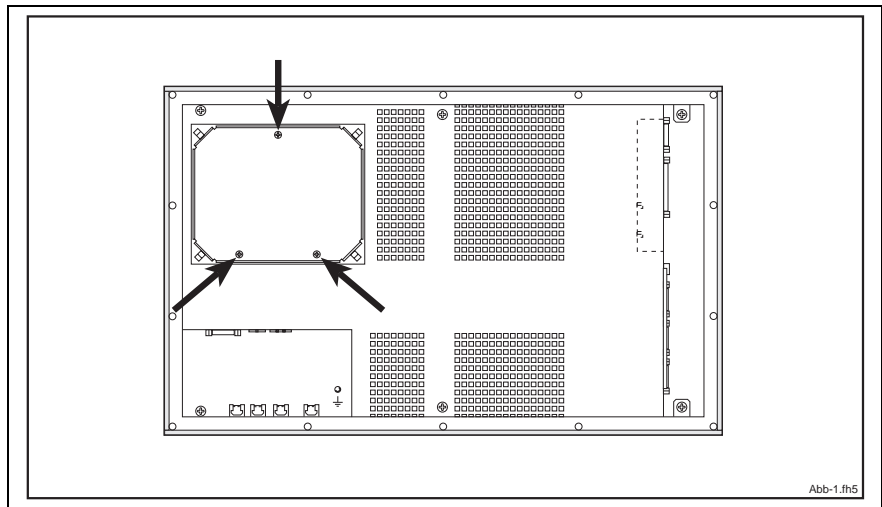


Fig. 1-1: Loosen the Hard Disk holder

- Loosen the mounting screws of the four spring components (Fig.1-2)

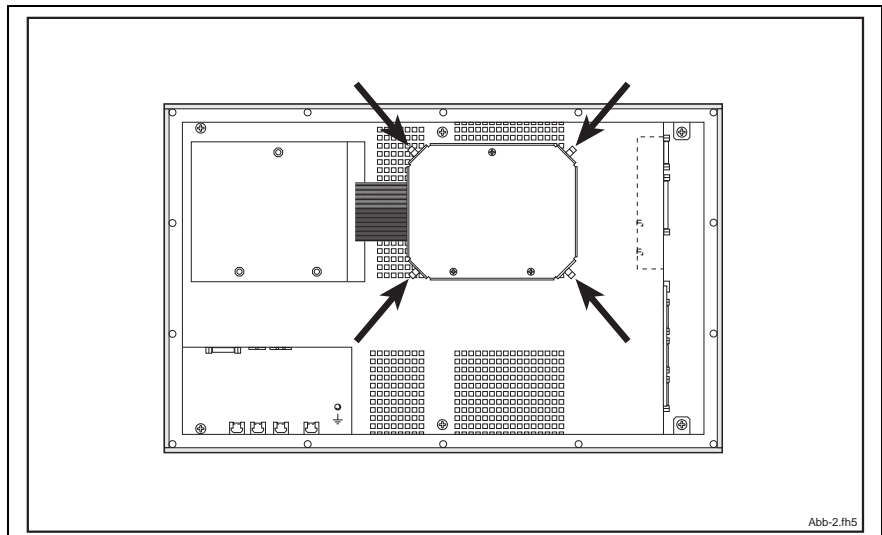


Fig. 1-2: Loosen the four spring components

- Pull the spring components as shown in Fig. 1-3 out somewhat and now remove the cover.

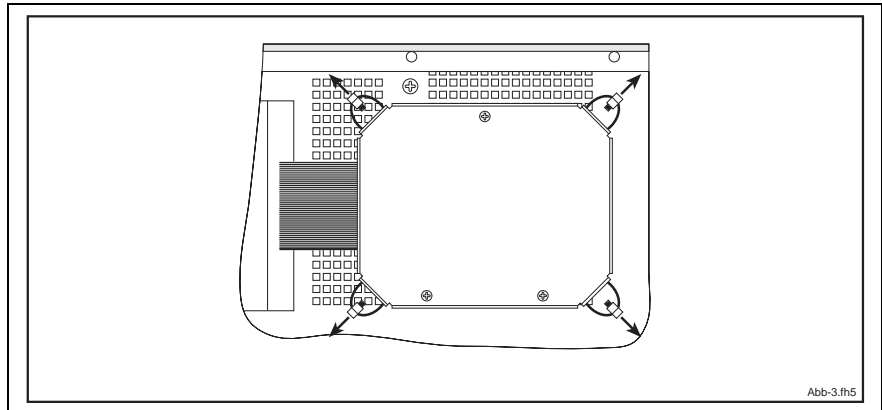


Fig. 1-3: Remove the cover

- After removing the four plastic screws, as it shown in Fig. 1-4, remove the carrier panel of the mounting panel and then pull the cable away from the mounting panel.

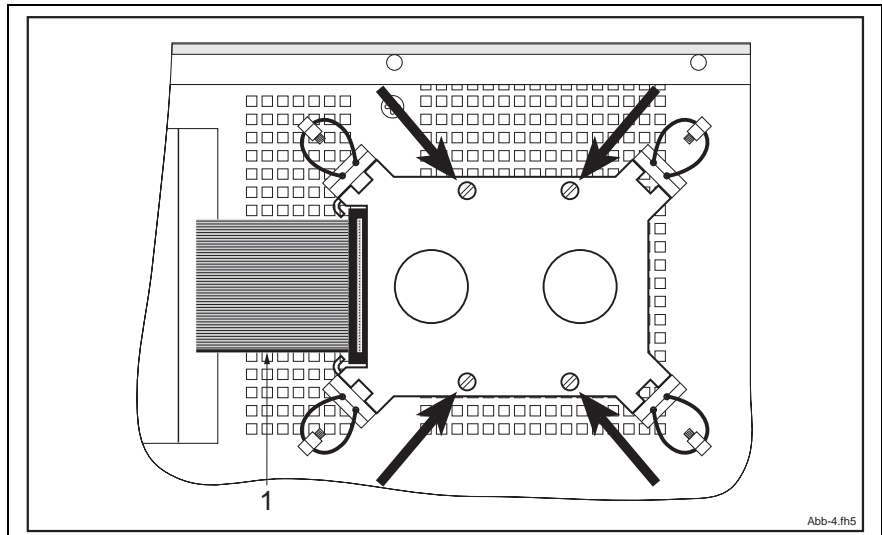


Fig. 1-4: Removing the mounting panel

## 1.2 Mounting the Hard Disk

- Clip the cable onto the Hard Disk ensuring that the orientation is correct (pin 1).
- Scew Hard Disk onto carrier panel. (Fig.1-4)

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**Attention: Do not forget the insulating Disc!**

**Fasten the plastic screws carefully!**

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- Put cover into place and hook the spring components into place. (Fig.1-3)
- Mount the spring components onto the cover. (Fig.1-2)
- Bring the Hard Disk mounting panel back into place and fasten it. (Fig.1-1)

## 1.3 Entering the New Hard Disk in the BIOS

- Start the PC.
- Call up the BIOS setup by pressing the keys **Ctrl + Alt + S** during BIOS startup.
- Set values for new Hard Disk (Fixed Disk C:) in:  
window 1: Standard Setup Options Menu (see 1.5.1)

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**Attention: The values are specified in the data sheet of the Hard Disk.**

**Alternatively, the values of numerous Hard Disks can be automatically determined by selecting Hard Disk types „49“ and „F1“.**

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- Check all other BIOS settings  
(see 1.5.2 as per window 2: Advanced Feature Control Menu)
- Prior to leaving the setup menu, store all settings! (F10)

## 1.4 Installing the Pre-Installed Hard Disk

### 1.4.1 DOS

- The Hard Disks are delivered with an operable DOS.
- Additional pre-installations can be ordered.
- Additional software must be installed by the user as per software instructions.

### 1.4.2 Windows-NT 3.51

- The Hard Disks are delivered directly with an operable Windows NT 3.51.
- Additional pre-installations can be ordered.
- Additional software must be installed by the user as per software instructions.

## 1.5 BIOS – Settings

### Window 1: Standard Setup Options Menu

Chips and Technologies, Inc. System Configuration Utility			
----- STANDARD SETUP OPTIONS -----			
Time:	current time entered	Processor:	entered by system
Date:	current date	Coprocessor:	entered by system
Disk A:	3.5 Inch, 1.44 MB		
Disk B:	Not Installed	Cyl Hd Pre LZ Sec Size	values determined automatically with F1
Fixed Disk C:	Type 49		
Fixed Disk D:	Not Installed		
Base Memory:	640 KB	BIOS Found:	
Extended Memory:	as entered on right	entered by system	
Display:	EGA or VGA		
↑↓←→ to select entries + and - to change an entry ESC to exit without saving			
		PgDn for Advanced Feature Control F10 to save then exit	

Fig. 1-5: window 1: Standard Setup Options Menu

### Window 2: Advanced Feature Control Menu

Chips and Technologies, Inc. System Configuration Utility			
----- ADVANCED FEATURE CONTROL -----			
NumLock:	On		
External Cache:	Write Back	in V1.2:	Write Through
Internal Cache:	Write Back	in V1.2:	Write Through
DRAM Timing:	4-3-3-3	in V1.2 ff	not visible
Shadow System BIOS:	Enabled	in V1.4 ff	not visible
Shadow Video BIOS:	enabled	in V1.4 ff	not visible
Boot Device Order:	C:,A:		
IDE 0 Transfer Mode:	Slowest (Default)		
IDE 1 Transfer Mode:	Slowest (Default)		
Password:	Disabled	in V1.4 ff	not visible
↑↓←→ to select entries + and - to change an entry ESC to exit without saving			
		PgUp for Standard Setup Options PgDn for 82C721/735 Configuration F10 to save then exit	

Fig. 1-6: window 2: Advanced Feature Control Menu

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