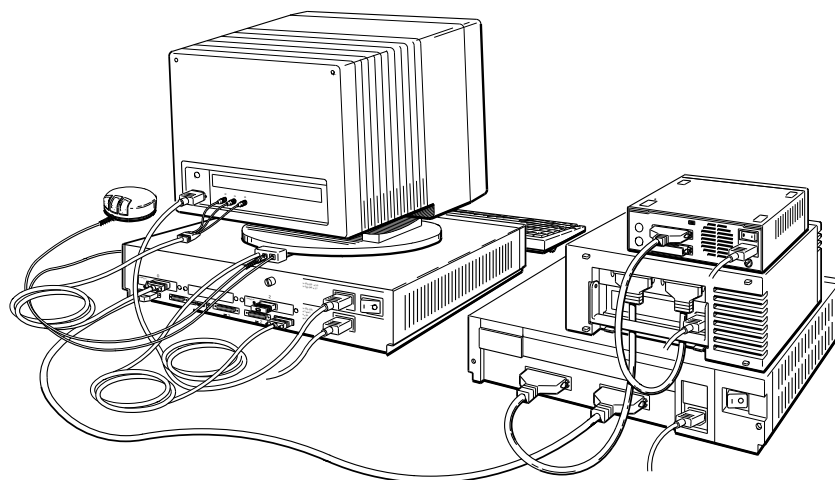


DECstation 5000 Model 100 Series Quick Reference Card



WS33R002

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EK-PM32D-RC-003

Table 1. Booting the System Software

boot [<i>OPTIONS</i>] [#/ <i>path</i>] [<i>arguments...</i>]		
boot		Boot ULTRIX using the option and path specified in the boot environment variable (see Table 3).
boot 2/rz1/vmunix -a		Boot ULTRIX in multiuser mode (vmunix -a) from drive rz1 in TURBOchannel option slot 2.
boot 3/mop		Boot ULTRIX in single-user mode over the Ethernet network connected to base system hardware.
<i>OPTIONS</i>	-n	Load worksystem software but do not boot it.
	-z #	Wait # seconds before booting.
<i>arguments</i>	-a	Multiuser boot.

Table 2. Testing the Workstation Configuration

cnfg [#]	
cnfg	Display the basic configuration for all slots.
cnfg 3	Display the detailed configuration for the base system slot.

Sample cnfg Displays

```
>>cnfg
❶ ❷
3:  KN02-BA    DEC      V5.7e    TCF0    (❸ 32 MB)
      {enet: 08-00-2b-0f-45-72)
      {SCSI = 7)
0:  PMAG-AA    DEC      V5.3d    TCF0    {CX - - D=8)
1:  PMAD-AA    DEC      V5.3d    TCF0    {enet: 08-00-2b-0f-45-31)
```

- ❶ Slot number
- ❷ Model code
- ❸ Module code and summary of module information

```
>>cnfg 3
❶ ❷
3:  KN02-BA    DEC      V5.7e    TCF0    (❸ 32 MB)
      {enet: 08-00-2b-0f-45-72)
      {SCSI = 7)
      ❹ ❺
      -----
      DEV      PID      VID      REV      ❻ SCSI DEV
      =====
      tz1
      rz4      RX23      (C) DEC  DEC      0700      SEQ
                                   DIR
      dcache (❷ 64 KB), icache ( 64 KB)
      mem(❸ 0):  a0000000:a03ffffff (❹ 16 MB)
      mem( 1):  a0400000:a07ffffff ( 16 MB)
```

- ❶ Slot number
- ❷ Model code
- ❸ Module code and summary of module information
- ❹ SCSI device code with SCSI ID
- ❺ SCSI device product ID (not always present)
- ❻ SCSI device descriptor
- ❼ Amount of cache memory
- ❸ Memory slot number
- ❹ Amount of RAM memory in slot

Table 3. Setting Environment Variables

Commands	
setenv <i>env value</i>	Set the environment variable <i>env</i> to <i>value</i> .
printenv [<i>env</i>]	Display the value of environment variable <i>env</i> .
printenv	Display the values of all environment variables.
printenv more	Display the value of the more environment variable.
unsetenv <i>env</i>	Clear the environment variable <i>env</i> .
Environment Variables	
boot	Set the parameters for a system boot.
setenv boot 3/mop	Set the boot environment variable to 3/mop.
setenv boot "3/mop -a"	Set the boot environment variable to 3/mop -a. The quotation marks are necessary when there is a blank space in the parameter.
console	Select the system console.
setenv console s	Make the terminal that is connected to communications connector 3 (next to the halt button) the system console.
setenv console *	Make the workstation monitor the system console. If the workstation has more than one monitor, make the monitor in the lowest-numbered slot the system console.
setenv console 0	Displays the keyboard language menu on the system console. If no video is installed, a serial-line console will be selected and no language menu will be displayed.
haltaction	Set the result of turning on the power switch or pressing the halt button.
setenv haltaction b	Boot the worksystem software.
setenv haltaction h	Enter console mode.
setenv haltaction r	Restart the worksystem software without booting; boot only if the restart fails.
more	Set the number of lines of text to scroll before pausing.
setenv more 23	Scroll 23 lines then pause.
setenv more 0	Scroll text without pausing.
testaction	Select the power-up self-test.
setenv testaction q	Use the quick, less thorough self-test.
setenv testaction t	Use the complete, thorough self-test.

Table 4. Other Console Commands

cat <i>#!/scriptname</i>	Display a script.
cat 2/testtap	Display the script testtap stored in ROM memory in TURBOchannel option slot 2.
erl [-c]	Display the system log of error messages.
	-c Clear all messages from the log.
init [#] [<i>argument...</i>]	Initialize a module.
init	Initialize all modules.
init 1	Initialize option module 1.
init 3 -m	Initialize the system module and clear base system memory.
ls [#]	List the test scripts stored in a module ROM.
ls	List the test scripts stored in all the module ROMs.
ls 1	List the test scripts stored in the ROM on TURBOchannel option module 1.
passwd [<i>OPTIONS</i>]	Set the console password.
passwd	Display the password prompt so you can set your password.
passwd -s	Display the password prompt to set a new password.
passwd -c	Clear the console password.
restart	Restart the worksystem software.
script <i>scriptname</i>	Write a temporary script (end with two Returns).
script setall	Write a temporary script named setall.
<i>scriptname</i>	Run the temporary script <i>scriptname</i> .
sh [<i>OPTIONS</i>] [<i>#!/scriptname</i>] [<i>argument...</i>]	
sh 0/setall	Run a script named setall that is stored in ROM memory in TURBOchannel option slot 0. See the options for sh in Chapter 11 of the <i>DECstation 5000 Model 100 Series Hardware Operator's Guide</i> .
sh <i>#!/pst-t</i>	Test TURBOchannel option slot # with a thorough system self-test.
t [<i>OPTION</i>] [<i>#!/testname</i>] [<i>argument...</i>]	
test	Test all modules.
t 3/ni/common	Test the base system Ethernet controller with SCC transmit and receive test.
t -1 2/ni/dma1	Test TURBOchannel option slot 2 with the self-test ni/dma1. Run the test in a continuous loop (-l).
t <i>#!/ ?</i>	List all of the tests available for slot #.

Table 5. SCSI ID Switch Settings for External Devices

SCSI ID Number	Hard Disk Drives in a BA42 expansion box RRD40 Compact Disc Drive ¹	TK50Z Tape Drive TLZ04 Tape Drive ²
6	Up Up Down	Down Down Up
5	Up Down Up	Down Up Down
4	Up Down Down	Down Up Up
3	Down Up Up	Up Down Down
2	Down Up Down	Up Down Up
1	Down Down Up	Up Up Down
0	Down Down Down	Up Up Up

¹Switch 4 on the RRD40 optical compact disc drive has no effect on the ID number.

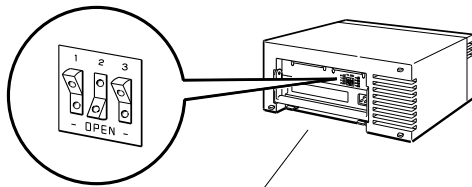
²Switch 1 (the left switch) on the TLZ04 tape drive should always be in the down position.

Table 6. SCSI ID Jumper Settings for Internal Drives

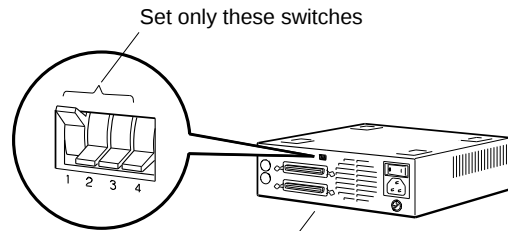
ID Number	TZK10 QIC, RZ23, RZ23L, RZ24, RZ25 ¹	RRD42
6	On On Off	Off On On
5	On Off On	On Off On
4	On Off Off	Off Off On
3	Off On On	On On Off
2	Off On Off	Off On Off
1	Off Off On	On Off Off
0	Off Off Off	Off Off Off

¹The RZ25 has front and side jumpers. Pin 4 on the RZ25 front jumpers must always be in place. When the front jumpers are used, all pins must be removed from the side jumpers. When the side jumpers are used, all pins except pin 4 must be removed from the front jumpers.

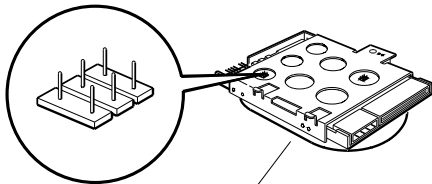
Set the jumper pins from left to right, with the drives positioned as shown on the next page.



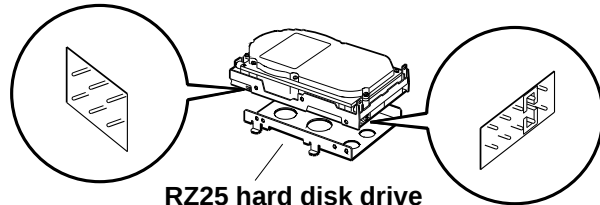
TK50Z tape drive expansion box



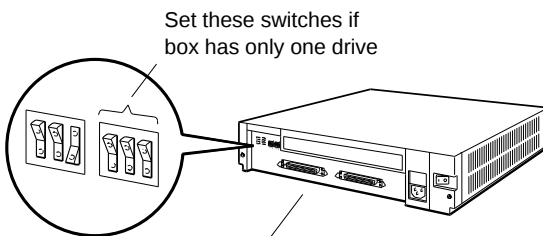
RRD40 CD drive expansion box



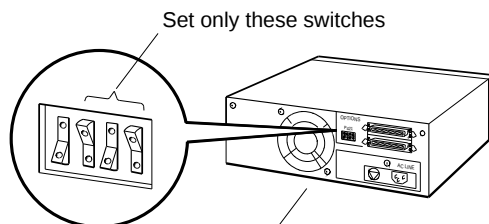
RZ23L hard disk drive



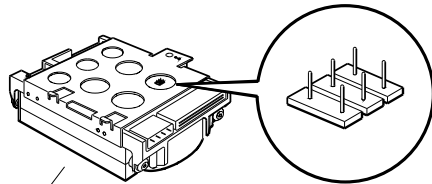
RZ25 hard disk drive



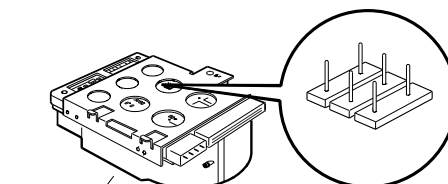
BA42 storage expansion box



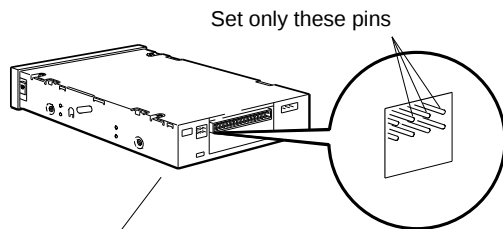
TLZ04 tape drive expansion box



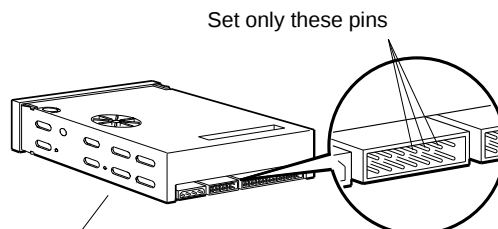
RZ23 hard disk drive



RZ24 hard disk drive

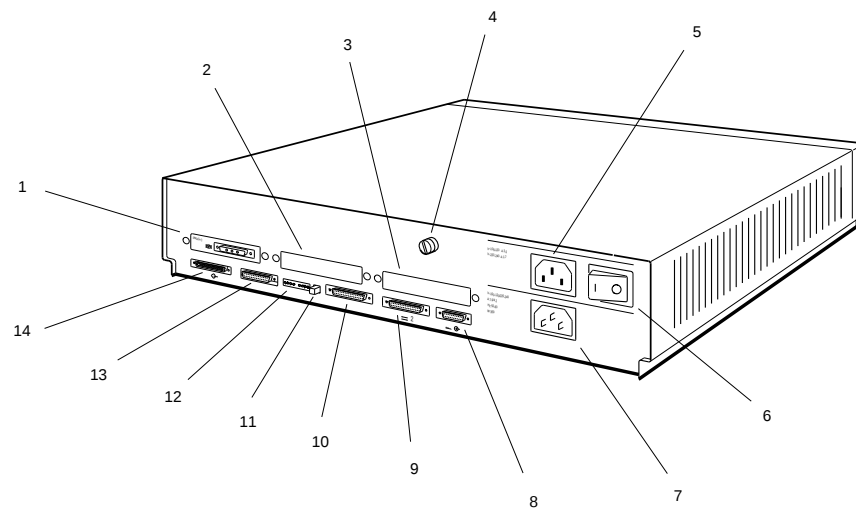
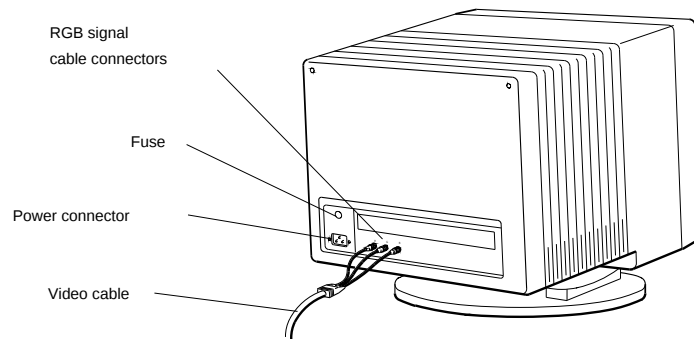


RRD42 optical compact disc drive



TZK10 QIC tape drive

WS33R009



- | | |
|---|--|
| 1. Option slot 0 with a video module in place | 8. Keyboard-mouse connector |
| 2. Option slot 1 | 9. Communications connector 2 |
| 3. Option slot 2 | 10. Communications connector 3 |
| 4. Cover-release screw | 11. Halt button |
| 5. Monitor-to-system-unit power connector | 12. Diagnostic indicator lights |
| 6. On/off switch | 13. Base system ThickWire Ethernet connector |
| 7. System unit power connector | 14. Base system SCSI connector |

WS33R001