

JUKE BOXES

The Juke Box, or Automated Disk Library, is an external peripheral used to archive optical disks. The peripheral consists of a floor-standing cabinet, containing a variable number of EOD or MOD drives and a sophisticated robot-controlled interior.

JUKE BOX	KODAK ADL560	ODL 50-2/3/4
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SCSI ID SELECTION

Selection of the SCSI ID is made directly on the Sony SMO-E501 drives inside the juke box, where each drive must have a different ID (for location of the jumpers, see the previous page). The SCSI ID's used are written on a label on the rear of the ODL. Depending on position of the drives inside the cabinet, the SCSI ID of each drive must be set in the following way:

AREA INSIDE THE ODL FOR
INSTALLATION OF THE OPTIC DRIVES

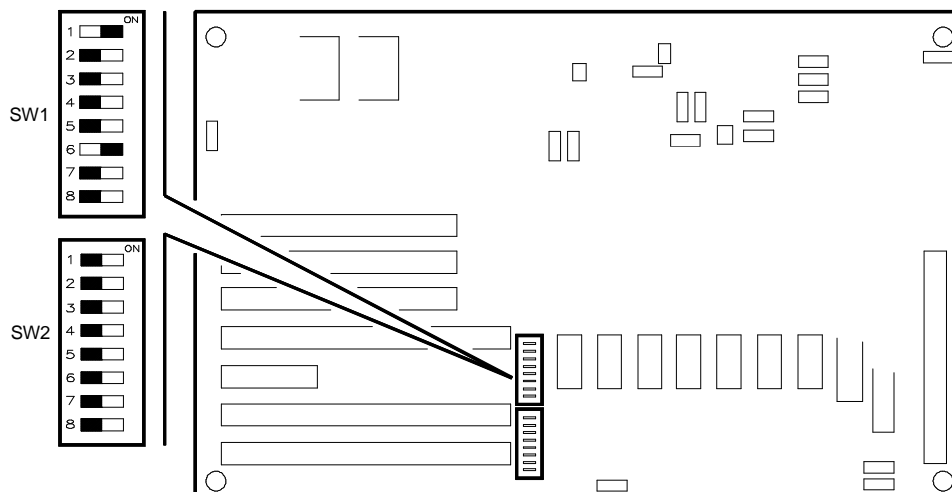
	INSTALLATION ORDER	DRIVE POSITION	SCSI ID
DRIVE 4	5	4	4
DRIVE 3	4	3	3
DRIVE 2	1	2	0
DRIVE 1	2	1	1
DRIVE 0	3	0	2

TERMINATION

Drives inside the cabinet are never terminated and the SCSI channel is terminated on the outside (with a terminator plug) on the free SCSI connector on the rear of the ODL. Whether the terminator is present or not depends on the configuration of the system's SCSI channel. Usually the terminator must be present if the ODL is the last peripheral in the SCSI bus chain and must be removed from all the others. If the ODL is the only peripheral connected on the SCSI bus, the terminator must be present.

SERIAL PORT CONFIGURATION

The robot mechanisms inside the ODL are managed by the system through the serial port. The DIP-switches on which the communication parameters are set on control board CBA.



Note: The robot mechanism inside the peripheral function only with the RS232 serial port parameters set in the following way:

- BAUD RATE = 9600
- PARITY = NONE
- DATA BITS = 8
- START BITS = 1
- STOP BITS = 1
- DATA RECEPTION CHECKING = ENABLED
- COMMUNICATION MODE = ECHO MODE.

This means that the communication parameters of the host system must be adapted to those of the ODL and not vice versa.

DIP-SWITCH SW1			BAUD RATE
SW1-1	SW1-2	SW1-3	
OFF	OFF	OFF	Reserved
ON	OFF	OFF	9600 *
OFF	ON	OFF	4800
ON	ON	OFF	2400
OFF	OFF	ON	1200
ON	OFF	ON	600
OFF	ON	ON	300
ON	ON	ON	110

DIP-SWITCH SW1		PARITY
SW1-4	SW1-5	
OFF	OFF	No parity *
ON	OFF	Parity even
OFF	ON	Parity Odd
ON	ON	Invalid selection

DIP-SWITCH SW1-6	DATA RECEPTION CHECKING
ON	XON / XOFF protocol enabled *
OFF	XON / XOFF protocol disabled

DIP-SWITCH SW1-8	COMMUNICATION MODE
ON	CS Mode (Checksum or Computer Mode)
OFF	ECHO Mode (or Human Mode) *

Note: DIP-Switch SW1-7 is used in the factory only; in normal operating conditions, it must be set OFF.

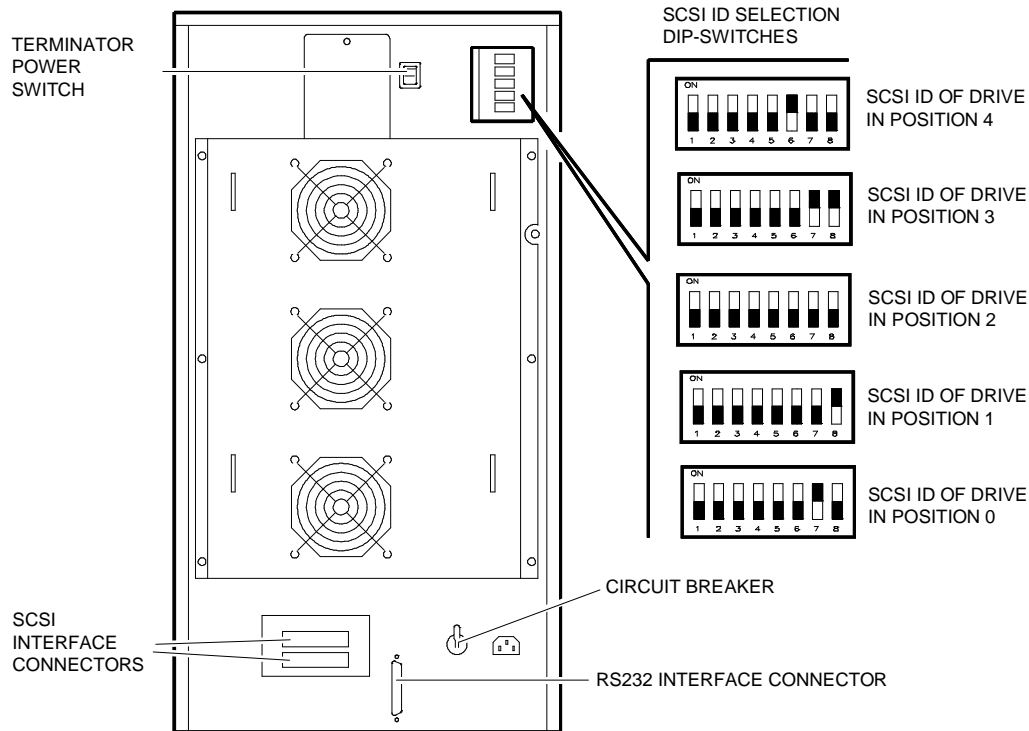
DIP-SWITCH SW2		EXTENDED DIAGNOSTIC
SW2-1	SW2-2	
OFF	OFF	Extended diagnostic disabled (normal operation) *
ON	ON	Extended diagnostic enabled

Note: The SW2 DIP-switch block is for the use of service personnel only (SW2-1 and SW2-2) and all 8 DIP-switches must be set OFF for normal operation.

JUKE BOX	KODAK ADL560E	ODL 50MF-2/3/4
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SCSI ID SELECTION

The SCSI ID on the Sony SMO-E511 drives inside the juke box is selected through a series of DIP-switches on the rear of the ODL and then needs to be confirmed by the software through the console keyboard.



SWITCH	DESCRIPTION	SET
1	Not used	OFF
2	The drive motor does not turn automatically when the cartridge is inserted The drive motor turns when the optical cartridge is inserted	ON OFF *
3	External terminator is powered External terminator is not powered	ON OFF *
4	Cartridge is not ejected when the eject button is pressed Cartridge is ejected when the eject button is pressed	ON OFF *
5	Parity check is disabled Parity check is enabled	ON OFF *

SWITCH			SCSI ID SELECTION
6	7	8	
OFF	OFF	OFF	0
OFF	OFF	ON	1
OFF	ON	OFF	2
OFF	ON	ON	3
ON	OFF	OFF	4
ON	OFF	ON	5
ON	ON	OFF	6
ON	ON	ON	7

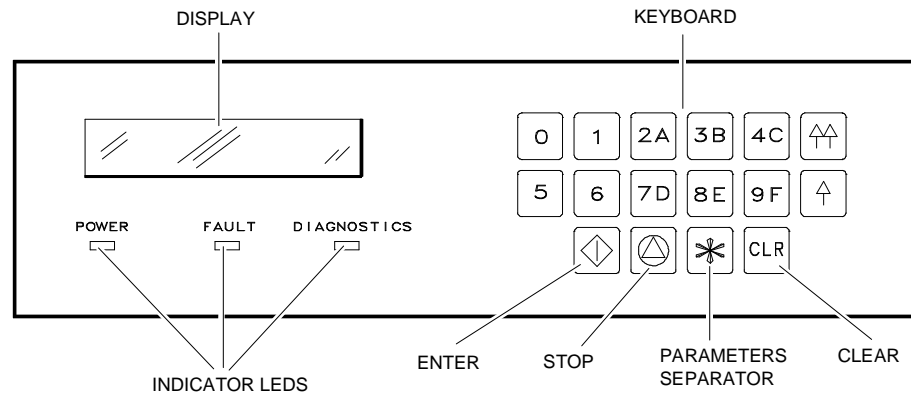
The 5 groups of DIP-switches specialize each of the 5 possible optical drives inside the ODL (max. 4 for Olivetti). The first 5 switches of each group must be set identically whereas the settings for the SCSI ID switches vary from group to group. Depending on position of each of the drives inside the unit, the SCSI ID of each drive must be set in the following way:

AREA INSIDE THE ODL FOR
INSTALLATION OF OPTICAL DRIVES

	ORDER IN WHICH INSTALLED	DRIVE POSITION	SCSI ID
DRIVE 4	5	4	4
DRIVE 3	4	3	3
DRIVE 2	1	2	0
DRIVE 1	2	1	1
DRIVE 0	3	0	2

Note: A label beside the DIP-switches gives the SCSI ID of each drive, manufacturer and model (for Olivetti, always Sony SMO-E511). Note that the DIP-switches will have a different significance in the event of a different manufacturer or model. The label also gives the ID assigned the robot inside the ODL (robot control on this model can be provided through the SCSI interface instead of the RS232 interface). The ID is set in the factory through the software and is 8 (not used); this setting on Olivetti systems means that robot control is always provided through the RS232 interface. Never alter this setting.

After manual selection of the SCSI ID's has been completed on the DIP-switches, the selection must be confirmed via software through the console keyboard:



- Enter the following commands:
 - 555 followed by ENTER (to access diagnostic mode, log on)
 - 22*aa*777*cc followed by ENTER.
 where:
 - aa: is the drive position (0 to 4) and
 - cc: is the SCSI address required (0 to 7)

- To display the ID without changing it, enter the following commands:
 - 22*aa followed by ENTER.
 where:
 aa: is the drive position (0 to 4)

 The display shows:
 ADL DRIVE X
 SCSI ID: Y
 where:
 X: is the drive position (0 to 4)
 Y: is the SCSI address of the drive in position X (0 to 7)
- To exit (log off) diagnostic mode, type 888 and press ENTER.

TERMINATION

Drives inside the cabinet are never terminated and the SCSI channel is terminated on the outside (with a terminator plug) on the free SCSI connector on the rear of the ODL. For reasons of mechanical tolerances, you are advised to use the Kodak terminator coming with the peripheral.

Whether the terminator is present or not depends on SCSI channel configured in the system. Usually the terminator must be present if the ODL is the last peripheral in the SCSI bus chain and must be removed from all the others. If the ODL is the only peripheral connected on the SCSI bus, the terminator must be present.

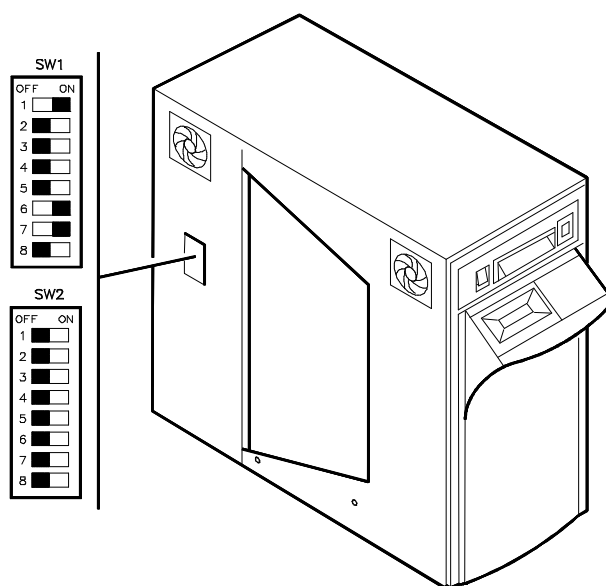
There is a terminator power switch marked "Robotics Term. Power" on the rear of the ODL:

"ROBOTIC TERM. POWER" SWITCH	POWER TO TERMINATORS
ON	ODL powers the terminator through pin 26 *
OFF	Terminator is powered by host through pin 26

SERIAL PORT CONFIGURATION

As seen previously, the robot mechanisms inside the ODL are not controlled by the SCSI interface but through the RS232 serial port.

The DIP-switches for setting of the communication parameters can be found on the peripheral left hand side, after the panel has been taken off.



Note: The internal robot mechanism operates only with the RS232 serial port parameters set as follows:

- BAUD RATE = 9600
- PARITY = NONE
- DATA BITS = 8 - START BITS = 1
- STOP BITS = 1
- DATA RECEPTION CHECKING = ENABLED
- COMMUNICATION MODE = ECHO MODE.

The communication parameters of the host system must be adapted to those of the ODL and not viceversa.

DIP-SWITCH SW1			BAUD RATE
SW1-1	SW1-2	SW1-3	
OFF	OFF	OFF	19200
ON	OFF	OFF	9600 *
OFF	ON	OFF	4800
ON	ON	OFF	2400
OFF	OFF	ON	1200
ON	OFF	ON	600
OFF	ON	ON	300
ON	ON	ON	110

DIP-SWITCH SW1		PARITY
SW1-4	SW1-5	
OFF	OFF	No parity *
ON	OFF	Parity even
OFF	ON	Parity odd
ON	ON	Invalid selection

DIP-SWITCH SW1-6	DATA RECEPTION CHECKING
ON	XON / XOFF protocol enabled *
OFF	XON / XOFF protocol disabled

DIP-SWITCH SW1-7	SCSI INSTALLED
ON	Installed *
OFF	Not installed

DIP-SWITCH SW1-8	COMMUNICATION MODE
ON	CS Mode (Checksum or Computer Mode)
OFF	ECHO Mode (or Human Mode) *

DIP-SWITCH SW2		EXTENDED DIAGNOSTIC
SW2-1	SW2-2	
OFF	OFF	Extended diagnostic disabled (normal operation) *
ON	ON	Extended diagnostic enabled

Note: The SW2 DIP-switch block is for the use of service personnel only (SW2-1 and SW2-2) and all 8 DIP-switches must be set OFF for normal operation.