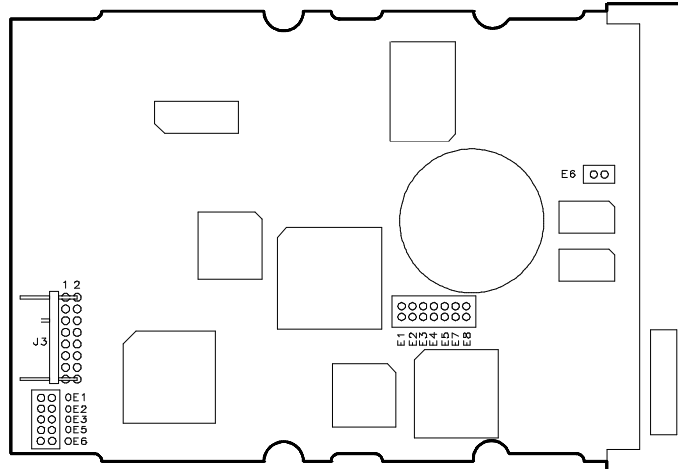


SCSI HARD DISK DRIVES

HDUs WITH DIFFERENTIAL SCSI NARROW INTERFACE

525 MB HDU	CONNER CP30540D (Aegean)	SCSI-2
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ROTATION	CYLINDER	DISK	HEADS	RECORD.
5400 RPM		3		RLL 1.7

9

JUMPERS			SCSI ID SELECTION
OE1	OE2	OE3	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

Note: For SCSI ID selection, use exclusively the jumper block OE-1-OE3 located on the front of the drive. Jumper block E1-E3 located on the side of the drive must not be used and therefore kept in the OFF position corresponding to a SCSI ID=0. The SCSI ID selected using both jumper blocks is the sum of the two values (for example, OE-1-OE3 ID = 2, E1-E3 ID = 2, the peripheral will have an ID of 4).

JUMPER E4	DRIVE MOTOR START
ON	Motor starts on the Start command
OFF	Motor starts at power-up *

Note: On LSX 5025 E systems the drives can be jumpered so that the motor starts with the Start command instead of at power on. This is because the drives on these systems are enabled by a SCSI command with a BIOS-determined delay, to limit HDU absorptions at power-on.

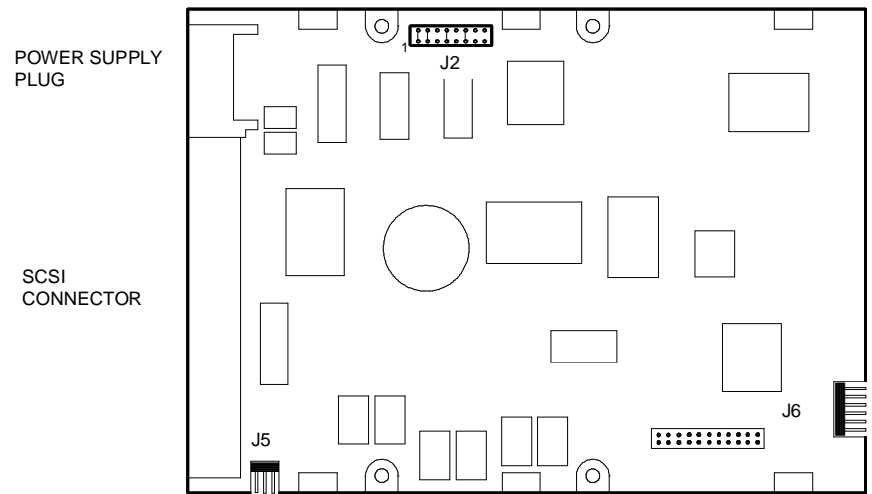
JUMPER E5, OE5	RESERVED
OFF	Always OFF (reserved)

CONNECTOR E6	CONNECTION TO REMOTE LED
ON OFF	Possibility of connecting the drive to a remote LED Standard configuration *

Note: Use only jumper E6 located near the interface connector and always keep jumper EO6 in the OFF position.

JUMPER E7	PARITY CHECKING ON THE SCSI BUS
ON OFF	Parity checking disabled Parity checking enabled *

JUMPER E8	RESERVED
OFF	Always OFF (reserved)

2.1 GB HDU**SEAGATE ST12400ND****SCSI-2****JUMPERS J6**

SCSI ID = 0

SCSI ID = 1

SCSI ID = 2

SCSI ID = 3

SCSI ID = 4

SCSI ID = 5

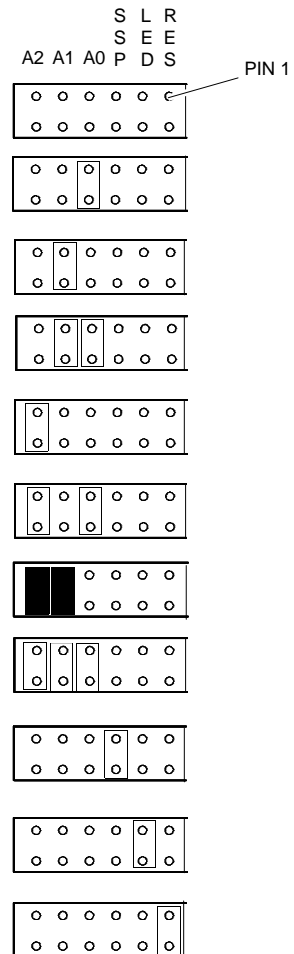
SCSI ID = 6 (Default)

SCSI ID = 7

ONDrive motor sync enabled
 OFFDrive motor sync disabled *

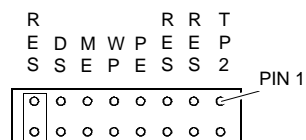
Pins used for connecting to a remote LED (jumper not installed)

Reserved (jumper not installed)



JUMPERS J2

Reserved
(jumper not installed)



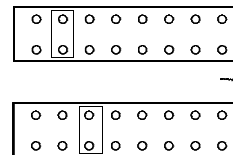
DSME

OFFOFFThe motor starts at power on *

OFFONThe motor starts with a Start command

ONOFFThe motor of drive 0 starts at power on, that of drive 1 starts after 12 sec, that of drive 2 after 24 sec, etc.

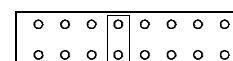
ONONII motore parte su comando di start



Note: On LSX 5025 E systems the drives can be jumpered so that the motor starts with the Start command instead of at power on. This is because the drives on these systems are enabled by a SCSI command with a BIOS-determined delay, to limit HDU absorptions at power-on.

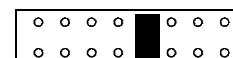
ONThe drive is write protected

OFFThe drive is not write protected *

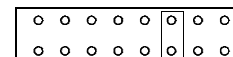


ONParity checking enabled *

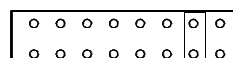
OFFParity checking disabled



Reserved
(jumper not installed)

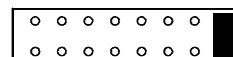


Reserved
(jumper not installed)



ONThe drive provides power to pin 26 of the SCSI bus, Terminator Power signal, in order to power the external terminators. The differential drive does not have internal terminators.

OFFThe external terminators are not powered.

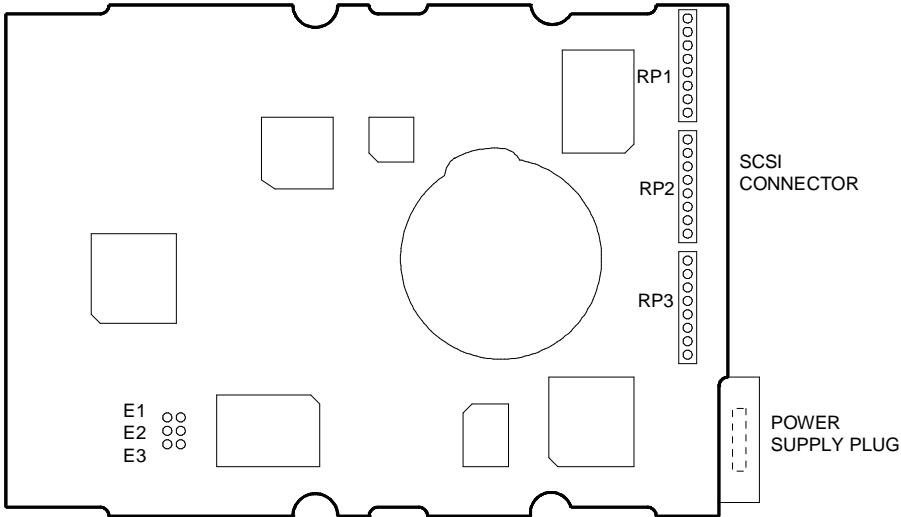


Note: Jumper block J5 is not used

ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
5411 RPM	2611	10	19	RLL 1.7

HDUs WITH SINGLE-ENDED SCSI NARROW INTERFACE

100 MB HDU	CONNER CP30100 (Hopi)	SCSI
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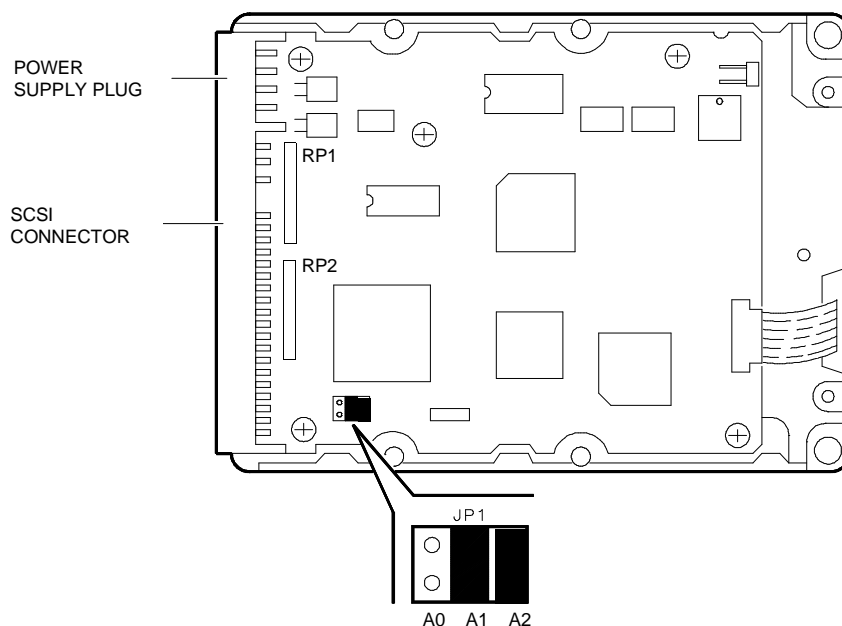


ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
				RLL 2.7

JUMPERS			SCSI ID SELECTION
E1	E2	E3	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

TERMINATION RESISTANCES RP1, RP2 AND RP3
Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween.

120 MB HDU	QUANTUM ELS127S	SCSI-2
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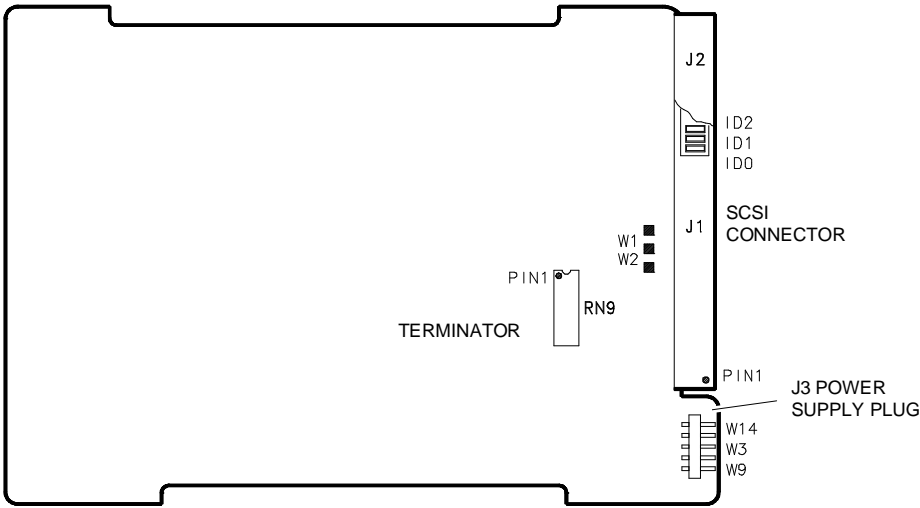
ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
3663 RPM	1536	2	3	RLL 1.7

JUMPERS			SCSI ID SELECTION
A0	A1	A2	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

TERMINATION RESISTANCES RP1, RP2

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween.

150 MB HDU	MICROPOLIS 1674-7	SCSI
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ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
3600 RPM	1249	4	7	RLL 2.7

JUMPERS			SCSI ID SELECTION
ID0	ID1	ID2	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

9

JUMPERS		POWER SUPPLY TO TERMINATORS
W1	W2	
ON	OFF	The drive provides the power supply for the terminators *
OFF	ON	The terminators are supplied by the Terminator Power signal

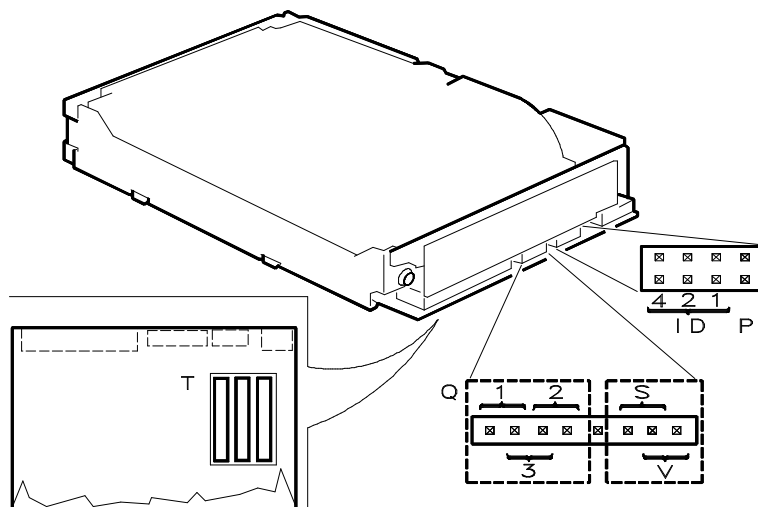
JUMPER W3	DRIVE MOTOR START
ON	The motor is started by a Start command
OFF	The motor starts at power up *

JUMPER W9	PARITY CHECK ON SCSI BUS
ON	Disables the parity check
OFF	Enable the parity check*

TERMINATION RESISTANCE RN9

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween.

150 MB HDU	SEAGATE WREN 5 94221-184	SCSI
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ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
				RLL 2.7

JUMPERS			SCSI ID SELECTION
4	2	1	
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

JUMPER P	SCSI BUS PARITY CHECK
ON	Enables the parity check *
OFF	Disables the parity check

JUMPERS Q			POWER SUPPLY TO TERMINATORS
POS. 1	POS. 2	POS 3	
ON OFF	ON OFF	OFF ON	The drives supply power to the terminators * The terminators are supplied by the Terminator Power signal

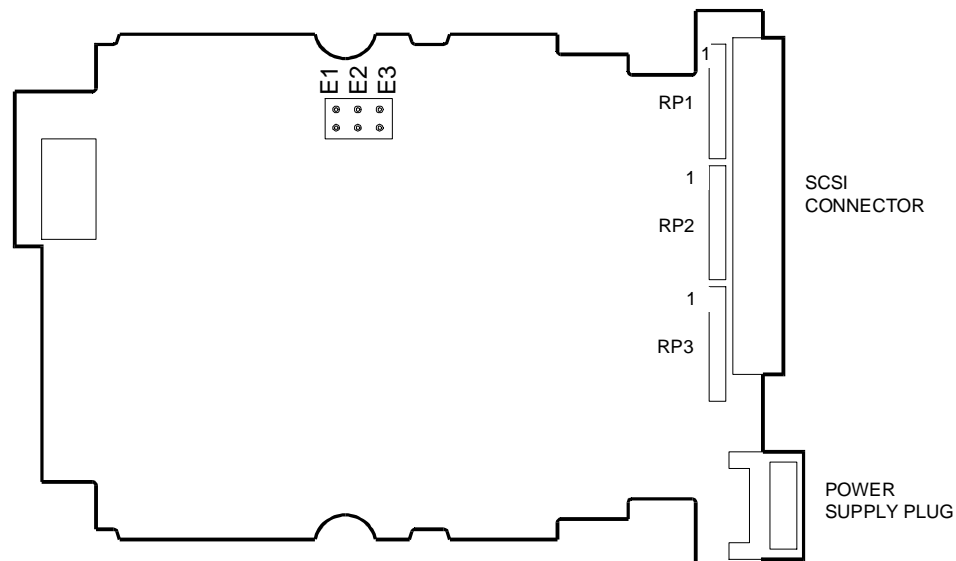
JUMPER V	DRIVE MOTOR START
ON OFF	The motor is started by a Start command The motor starts when powered up*

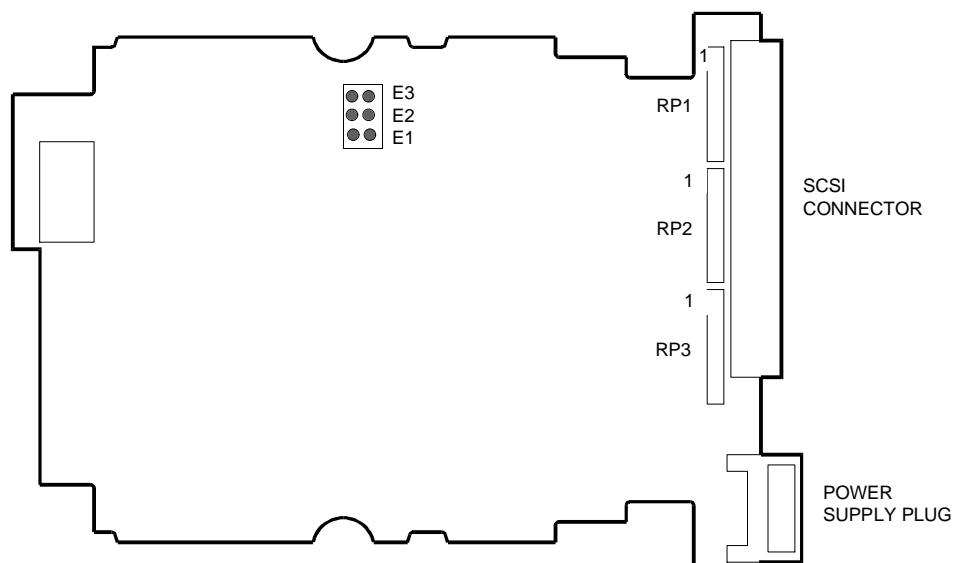
JUMPER S	AUTO SEEK TEST ENABLING
ON OFF	Auto seek test enabled in continuous mode Auto seek test disabled (operating normally) *

TERMINATION RESISTANCE T

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween.

210 MB HDU	CONNER CP3200F (Rambo)	SCSI
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CONNER CP 3200F - Earlier Version

CONNER CP3200 MIG version

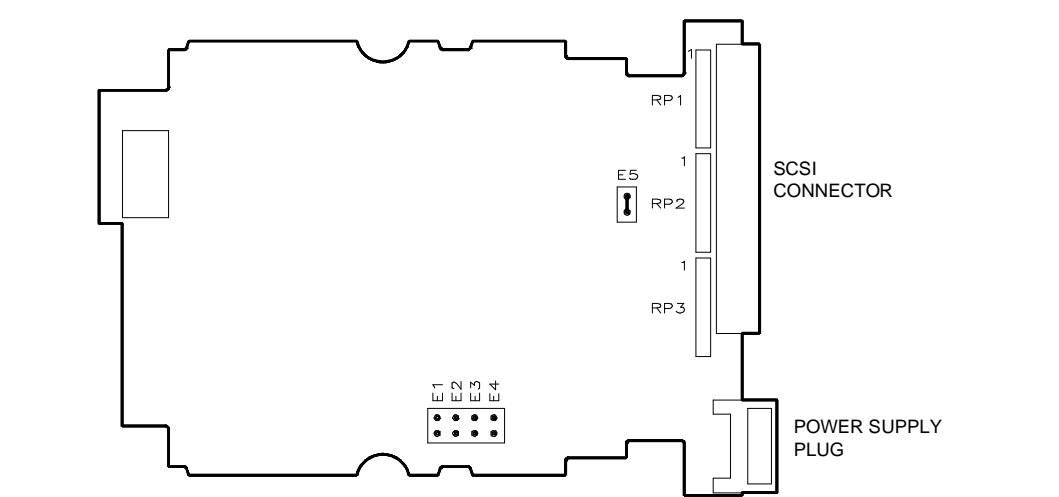
ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
3485 RPM	1368	4	8	RLL 2.7

JUMPERS			SCSI ID SELECTION
E1	E2	E3	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

TERMINATION RESISTANCES RP1, RP2 AND RP3

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems termination is made directly on the drive while on others (for example LSX 50xx) it is always made on the SCSI cable or on the disk support.

210 MB HDU	CONNER CP30200 (Cougar)	SCSI-2
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ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
4500 RPM		2	4	RLL 2.7

JUMPERS			SCSI ID SELECTION
E1	E2	E3	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

9

JUMPER E4	DRIVE MOTOR START
ON	Motor starts on Start command
OFF	Motor starts at power-up *

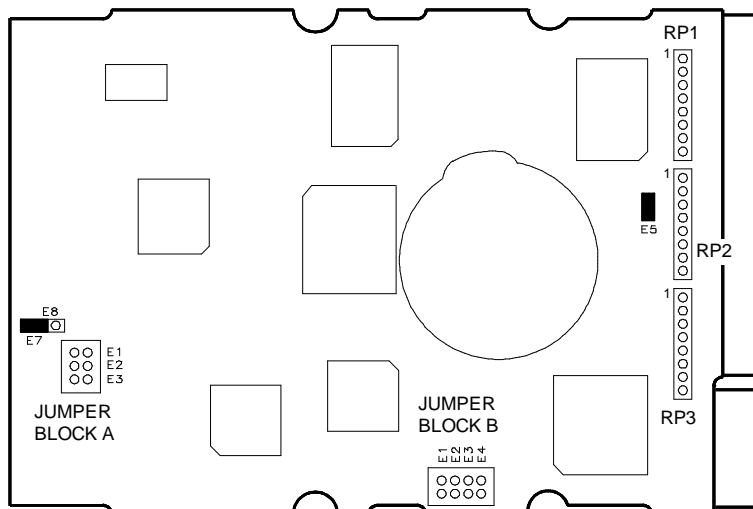
Note: On M6-850/860/880 and LSX 5025 E systems the drives can be jumpered so that the motor starts with the Start command instead of at power on. This is because the drives on these systems are enabled by a SCSI command with a BIOS-determined delay, to limit HDU absorptions at power-on.

JUMPER E5	POWER TO TERMINATORS
ON	Drive provides the power supply for the terminators and to pin 26 SCSI (Term. Power) *
OFF	The terminators are powered by the Terminator power signal.

TERMINATION RESISTANCES RP1, RP2 AND RP3

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems termination is made directly on the drive while on others (for example LSX 50xx) it is always made on the SCSI cable or on the disk support.

NEW PCBA 07680-005 WITH ID JUMPER ON FRONT



JUMPERS		JUMPERS, SCSI ID JUMPER BLOCK ENABLING
E7	E8	
ON	ON	Enable ID selection jumpers on front (block A) * Enable ID selection jumpers on side (block B)

Note: Use jumper block A exclusively for SCSI ID selection.

JUMPERS (BLOCK A AND BLOCK B)			SCSI ID SELECTION
E1	E2	E3	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

JUMPER E4	DRIVE MOTOR START
ON	Motor starts on Start command
OFF	Motor starts at power-up *

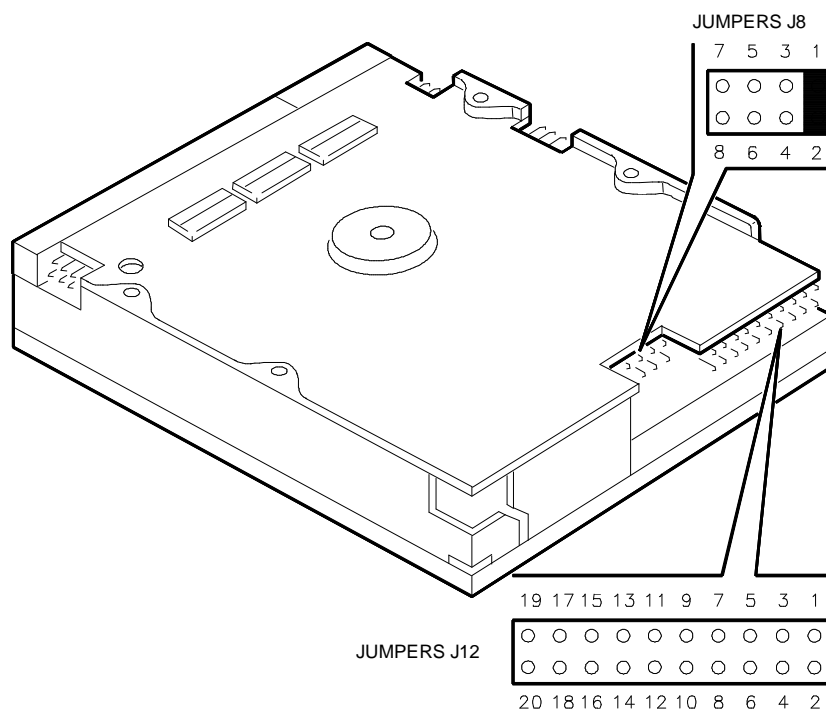
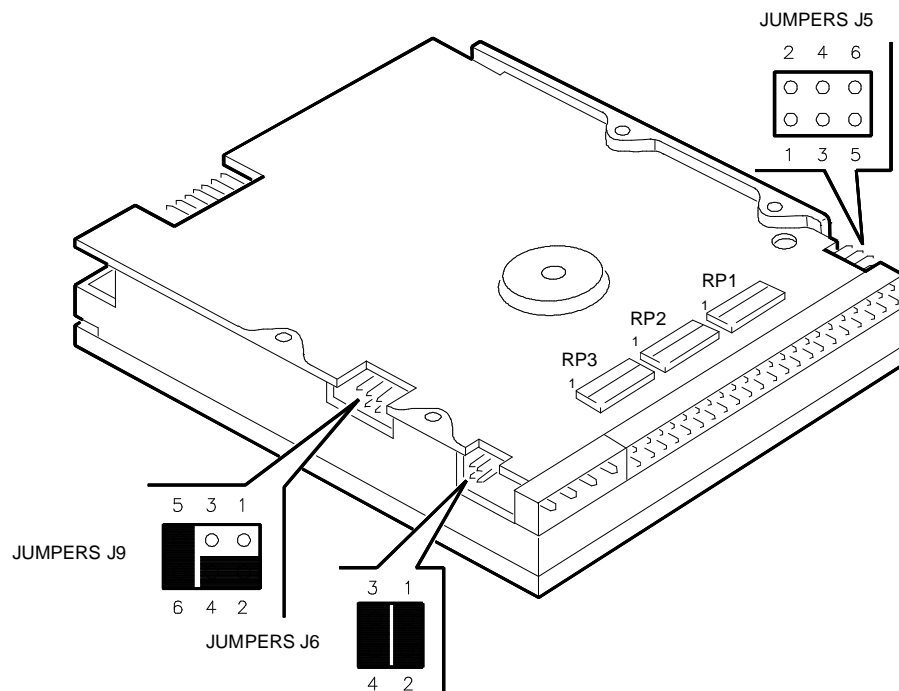
Note: On M6-850/860/880 and LSX 5025 E systems the drives can be jumpered so that the motor starts with the Start command instead of at power on. This is because the drives on these systems are enabled by a SCSI command with a BIOS-determined delay, to limit HDU absorptions at power-on.

JUMPER E5	POWER TO TERMINATORS
ON	Drive provides the power supply for the terminators and to pin 26 SCSI (Term. Power) *
OFF	The terminators are powered by the Terminator power signal.

TERMINATION RESISTANCES RP1, RP2 AND RP3

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems termination is made directly on the drive while on others (for example LSX 50xx) it is always made on the SCSI cable or on the disk support.

210 MB HDU	SEAGATE ST3283N	SCSI-2
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ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
4500 RPM	1691	3	5	RLL 1.7

JUMPERS J5 AND J8			SCSI ID SELECTION
PIN 5-6	PIN 3-4	PIN 1-2	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

Note: For SCSI ID selection, use only jumper block J8 located at the front; jumper block J5 located at the side is therefore not used and must be set OFF, SCSI ID = 0. If the ID is selected on the two jumper blocks, the two selections are added (e.g. J5 ID = 2, J8 ID = 2, the peripheral ID will be 4)

JUMPER J8 PIN 7-8 JUMPER J12 PIN 5-6	DRIVE MOTOR SYNCHRONIZATION
ON OFF	The drive motor is synchronized by an external index signal Normal operation *

JUMPER J8 PIN 9-10 JUMPER J12 PIN 7-8	REMOTE LED POWER SUPPLY
ON OFF	Power supplied to remote LED Remote LED not used *

Note: Pins 11 to 20 of jumper block J8 are not used.

JUMPERS J6		POWER TO TERMINATORS
PINS 1-2	ON	Terminators powered by SCSI connector
PINS 1-3	ON	Terminators powered by power supply connector
PINS 3-4	ON	Terminators powered only to SCSI connector
PINS 1-2 and 3-4	ON	Terminators powered by power supply connector and SCSI bus*
PINS 4-2	ON	Terminators are not installed

JUMPERS J9		ACTIVE/PASSIVE TERMINATION
PINS 1-2	ON	Enable active termination (2.85 V, 110 ohm)
PINS 2-4 and 5-6	ON	Enable passive termination (standard 220/330 ohm) *

JUMPER J12 PIN 1-2	SCSI BUS PARITY CHECKING
ON	Enable parity checking *
OFF	Disable parity checking

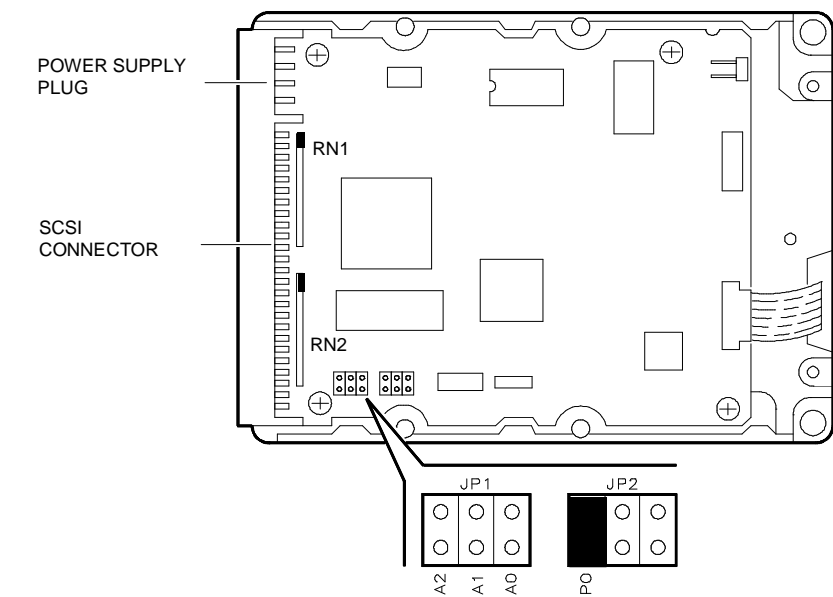
JUMPER J12 PIN 3-4	DRIVE MOTOR START
ON	The motor is started by a Start command
OFF	The motor starts when powered up *

Note: On M6-850/860/880 and LSX 5025 E systems the drives can be jumpered so that the motor starts with the Start command instead of at power on. This is because the drives on these systems are enabled by a SCSI command with a BIOS-determined delay, to limit HDU absorptions at power-on.

TERMINATION RESISTANCES RP1, RP2 AND RP3

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems termination is made directly on the drive while on others (for example LSX 50xx) it is always made on the SCSI cable or on the disk support.

270 MB HDU	QUANTUM LP270S (ProDrive)	SCSI-2
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ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
4500 RPM		1	2	RLL 1.7

JUMPERS			SCSI ID SELECTION
A0	A1	A2	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

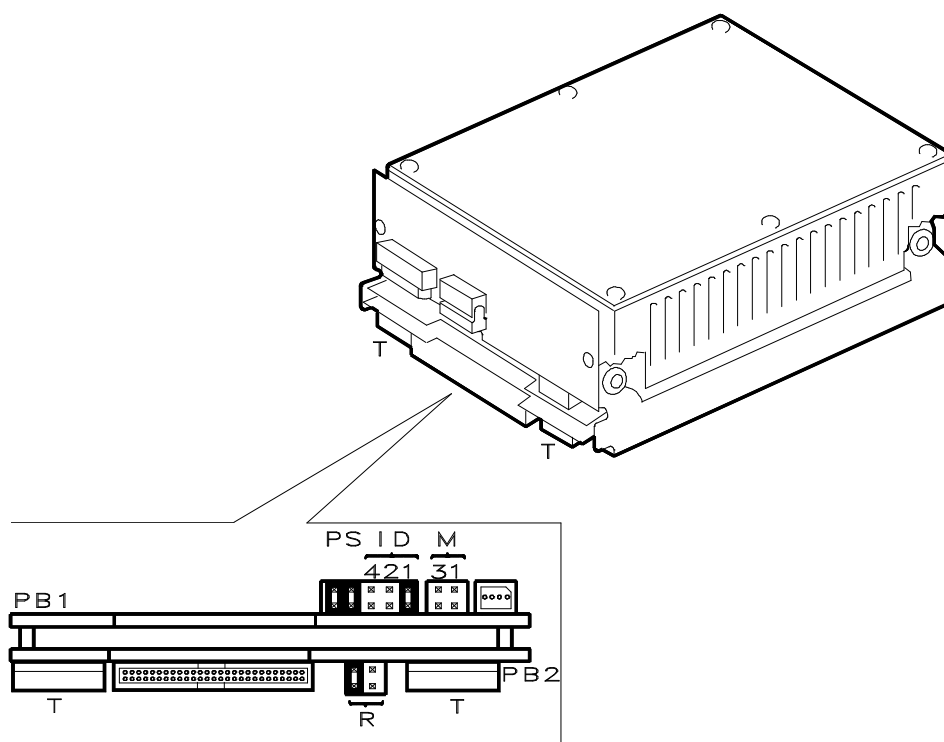
9

JUMPER PO	DRIVE MOTOR START
OFF	The motor starts when powered up
ON	The motor is started by a Start command

Note: On M6-850/860/880, SNX 1XX /E Systema and LSX 5025 E systems the drives can be jumpered so that the motor starts with the Start command instead of at power on. This is beause the drives on these systems are enabled by a SCSI command with a BIOS-determined delay, to limit HDU absorptions at power-on.

TERMINATION RESISTANCES RN1, RN2

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems (for example SNX 1xx) termination is made directly on the drive while on others (for example LSX 50xx) it is always made on the SCSI cable or on the disk support.

320 MB HDU**IMPRIMIS WREN 4 94171-376****SCSI**

ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
3597 RPM	1280	5	9	RLL 2.7

JUMPERS			SCSI ID SELECTION
4	2	1	
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


JUMPER P	SCSI BUS PARITY CHECK
ON	Parity check enabled *
OFF	Parity check disabled

JUMPER S	DRIVE MOTOR START
ON	The motor is started by a Start command
OFF	The motor starts at power up*


JUMPER M		CONNECTION TO GROUND
POS. 1-2	ON	Drive connected to ground (Signal Ground)
POS. 3-4	ON	Drive connected to ground by means of chassis (Chassis Ground)

JUMPER R


- R



The terminators are supplied by the Terminator Power signal
- R



The drive supplies power to the terminators *
- R

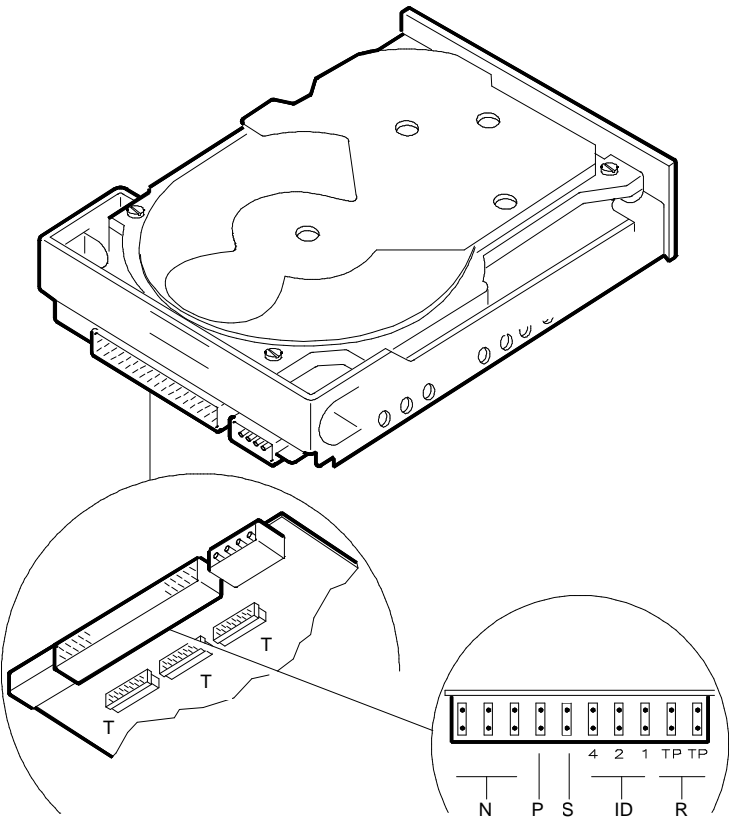


No terminators

TERMINATION RESISTANCE T

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween.

320 MB HDU	SEAGATE WREN 6 ST2383N	SCSI
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


ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
				RLL 2.7

JUMPERS ID			SCSI ID SELECTION
4	2	1	
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

JUMPER P	SCSI BUS PARITY CHECK
ON	Parity check enabled *
OFF	Parity check disabled

JUMPER S	DRIVE MOTOR START
ON	The motor is started by the Start command
OFF	The motor starts at power up *

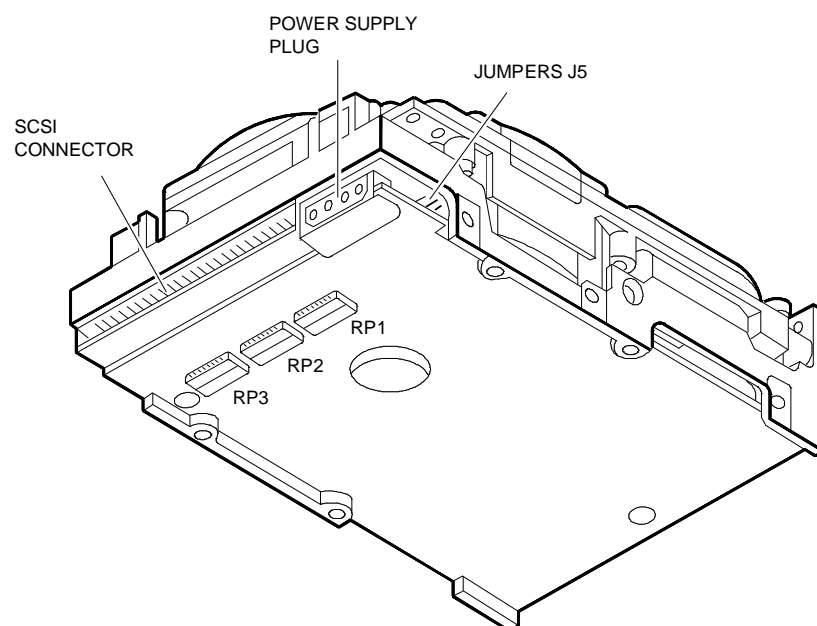
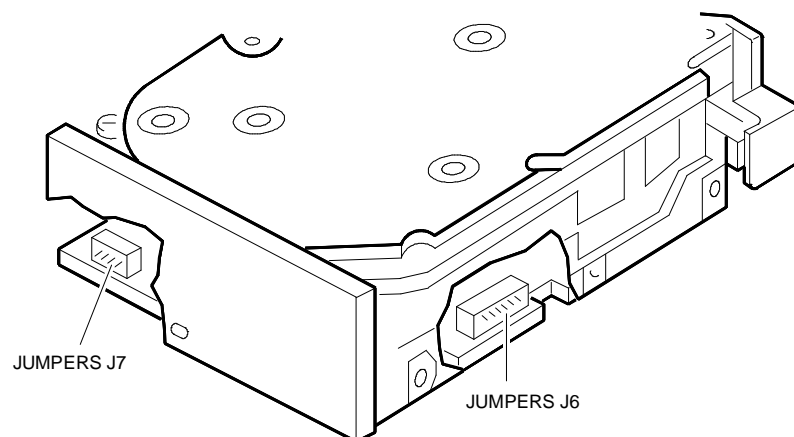
JUMPER R

- R  Terminators receive current from pin 26 (Terminator Power) via a fuse
- R  Terminators receive current from pin 26 (Terminator Power) via a diode and a fuse
- R  The drive supplies power to the terminators *

TERMINATION RESISTANCE T

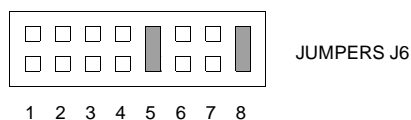
Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween.

Note: The N jumpers are reserved (only used in production).

**340 MB HDU
525 MB HDU****SEAGATE ST1401N
SEAGATE ST1581N****SCSI-2
SCSI-2**

9

MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
ST1401N	4412 RPM	1113	5	9	RLL 1.7
ST1581N	4412 RPM	1476	5	9	RLL 1.7



JUMPERS J6		DRIVE MOTOR START-UP
2	3	
ON	OFF	The motor starts-up with a Start command.
OFF	ON	Delaying drive motor start-up: Drive with an ID=0 starts immediately Drive with an ID=1 starts after 16 seconds Drive with an ID=2 starts after 32 seconds Drive with an ID=3 starts after 48 seconds and so on up to the last drive.
OFF	OFF	The motor starts at power-up *

Note: On LSX 5025 E systems the drives can be jumpered so that the motor starts with the Start command instead of at power on. This is because the drives on these systems are enabled by a SCSI command with a BIOS-determined delay, to limit HDU absorptions at power-on.

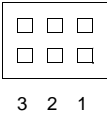
JUMPER J6-4	WRITE PROTECT ENABLE
ON	The drive is write protected
OFF	The drive is not write protected *

JUMPER J6-5	SCSI BUS PARITY CHECK
ON	Enables parity check *
OFF	Disables parity check

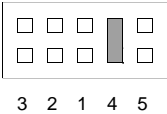
JUMPERS J6		POWER SUPPLY TO THE TERMINATORS
7	8	
ON	OFF	The terminators are supplied by the Terminator Power signal The drive provides the power supply to the terminators *
OFF	ON	
		If the jumper is inserted horizontally on the top row on pins 7 and 8, the terminators are powered by pin 26 of the SCSI bus.

Note: Jumper J6-1 is used only at the factory.
Jumper J6-6 is reserved for future use.

JUMPERS J5



JUMPERS J7



Note: Jumper blocks J7 (1, 2, 3) and J5 (1, 2, 3) can both be used for SCSI ID selection. To avoid incorrect selections, do not use both jumper blocks simultaneously.

JUMPERS J5 AND J7			SCSI ID SELECTION
3	2	1	
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

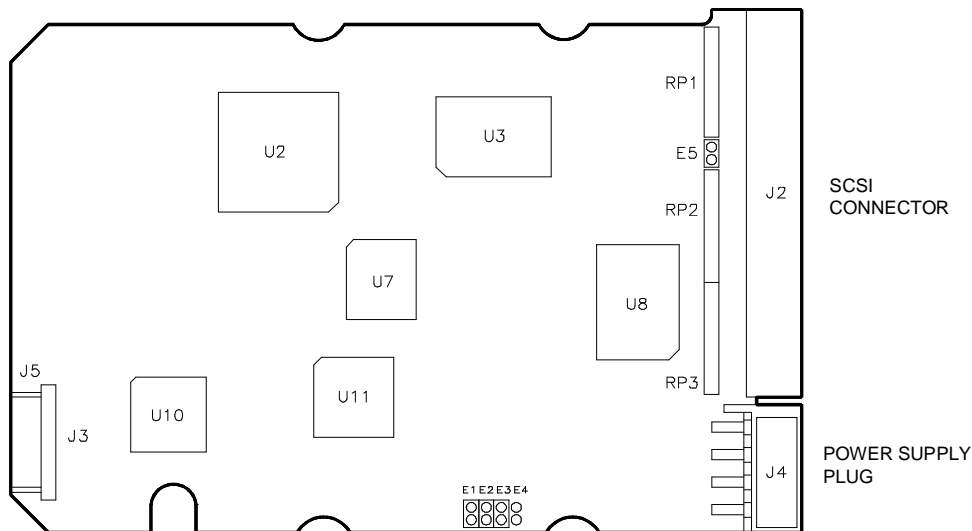
JUMPER J7-4	SYNCHRONIZATION
ON	Standard configuration *
OFF	Used for synchronization purposes

JUMPER J7-5	CONNECTION TO A REMOTE LED
ON	Pin 10 of the SCSI connector connected to +5 V, pin 9 to ground
OFF	Standard configuration *

TERMINATION RESISTANCES RP1, RP2 AND RP3

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems termination is made directly on the drive while on others (for example LSX 50xx) it is always made on the SCSI cable or on the disk support.

340 MB HDU	CONNER CP3300 (Summit 1)	SCSI
340 MB HDU	CONNER CP3360 (Summit 2)	SCSI-2
510 MB HDU	CONNER CP3500 (Summit 1)	SCSI
525 MB HDU	CONNER CP3540 (Summit 2)	SCSI-2



MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
CP3300	4500 RPM	1807	4	8	RLL 2.7
CP3360	4500 RPM	1807	4	8	RLL 2.7
CP3500	4500 RPM	1807	6	12	RLL 2.7
CP3540	4500 RPM	1807	6	12	RLL 2.7

JUMPERS			SCSI ID SELECTION
E1	E2	E3	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

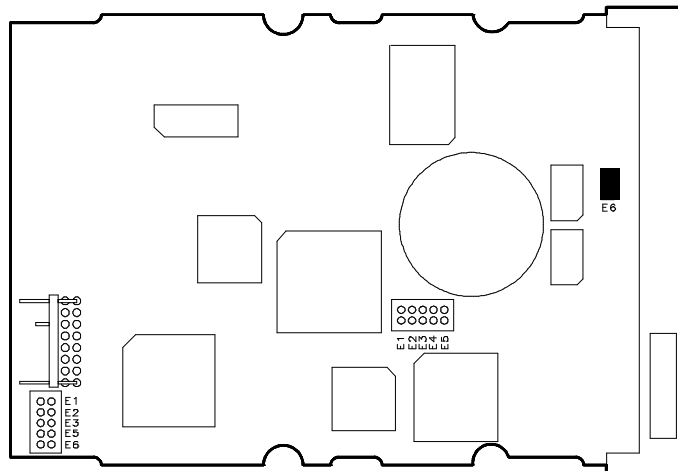
JUMPER E4	DRIVE MOTOR START-UP
OFF	The motor starts at power-up *
ON	The motor starts with a Start command

JUMPER E5	POWER SUPPLY TO THE TERMINATORS
ON	The terminators are supplied by the Terminator Power signal *
OFF	The drive provides the power supply for the terminators

TERMINATION RESISTANCES RP1, RP2 AND RP3

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween.

340 MB HDU 525 MB HDU	CONNER CP30360 (Aegean) CONNER CP30540 (Aegean)	SCSI-2
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MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
CP30360	5400 RPM		3		RLL 1.7
CP30540	5400 RPM				RLL 1.7

JUMPERS			SCSI ID SELECTION
OE1	OE2	OE3	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

Note: For SCSI ID selection, use only jumper block OE1-OE3 located at the front; jumper block E1-E3 located at the side is therefore not used and must be set OFF, SCSI ID = 0. If the ID is selected on the two jumper blocks, the two selections are summed (e.g. block OE1-OE3 ID = 2, block E1-E3 ID = 2, the peripheral ID will be 4).

JUMPER E4	DRIVE MOTOR START-UP
ON	Motor starts on Start command
OFF	Motor starts at power-up *

Note: On M6-850/860/880, SNX1XX /E Systema and LSX 5025 E systems the drives can be jumpered so that the motor starts with the Start command instead of at power on. This is because the drives on these systems are enabled by a SCSI command with a BIOS-determined delay, to limit HDU absorptions at power-on.

JUMPER E5	TERMINATORS ENABLING
ON	Terminators enabled
OFF	Terminators disabled

Note: The terminators on this drive cannot be removed and consist of 2 soldered dual in-line chips, enabled by jumper E5.

Whether terminators are present or not depends on the configuration of the system SCSI channel.

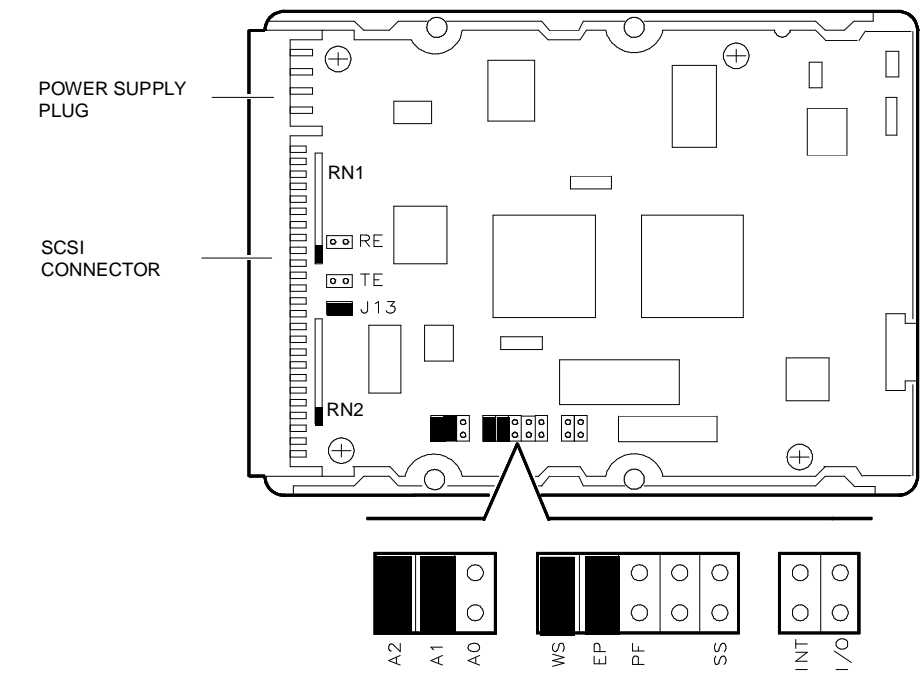
Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems (for example SNX 1xx) termination is made directly on the drive while on others (for example LSX 50xx) it is always made on the SCSI cable or on the disk support.

To avoid making wrong selections, only use jumper OE5 and keep jumper E5 in the OFF position.

JUMPER E6	POWER TO TERMINATORS
ON	The drive powers the terminators *
OFF	The terminators are powered by the Terminators Power signal

Note: Set only the E6 jumper near the interface connector and keep jumper OE6 in the OFF position.

525 MB HDU	QUANTUM EMPIRE 540	SCSI-2
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ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
5400 RPM	2874	2	4	RLL 1.7

JUMPERS			SCSI ID SELECTION
A0	A1	A2	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

JUMPER RE	DRIVE MOTOR START-UP
OFF *	Normal operation
ON	Allows the code to be copied into Flash EPROM

JUMPER TE	TERMINATORS ENABLING
OFF	Removable terminators RN1 and RN2 disabled
ON	Removable terminators RN1 and RN2 enabled

Note: This drive has removable terminators consisting of two resistor packs RN1 and RN2. If these terminators are present on the drive, they are enabled by means of jumper TE. Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems (for example SNX 1xx) termination is made directly on the drive while on others (for example LSX 50xx) it is always made on the SCSI cable or on the disk support.
To disable the terminators, remove jumper TE and remove the two resistor packs.

JUMPER EP	PARITY CHECKING ENABLE
OFF	Disables parity checkin on the SCSI bus
ON *	Enables parity checking on the SCSI bus

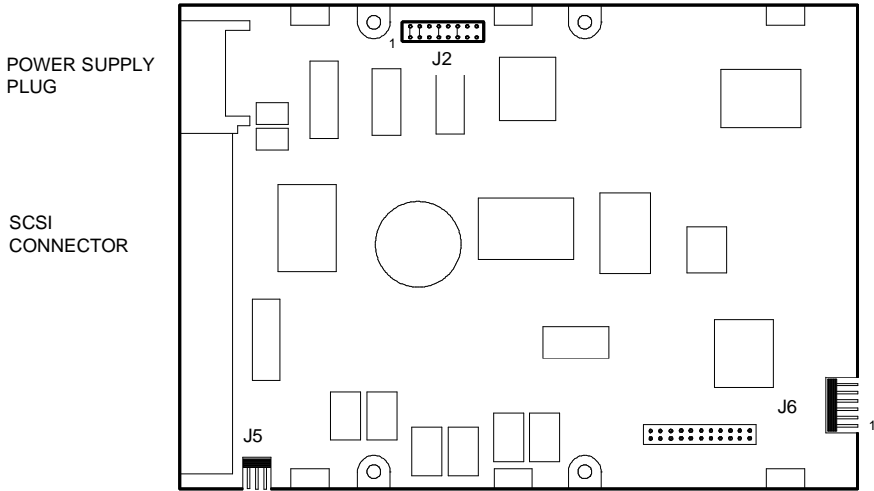
JUMPER WS	DRIVE MOTOR START-UP
OFF *	Motor starts at power-up
ON	Motor starts on Start command

Note: On M6-850/860/880, SNX1XX /E Systema and LSX 5025 E systems the drives can be jumpered so that the motor starts with the Start command instead of at power on. This is because the drives on these systems are enabled by a SCSI command with a BIOS-determined delay, to limit HDU absorptions at power-on.

JUMPER J13	POWER TO TERMINATORS
OFF	The terminators are powered by the Terminators Power signal
ON *	The drive powers the terminators

Note: All other jumpers are reserved for factory tests and must therefore always be kept to the OFF position.

525 MB HDU 1.05 GB HDU 2.1 GB HDU	SEAGATE ST3620N SEAGATE ST31200N (Hawk 1LP) SEAGATE ST12400N (Hawk 2)	SCSI-2
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JUMPERS J6

SCSI ID = 0

SCSI ID = 1

SCSI ID = 2

SCSI ID = 3

SCSI ID = 4

SCSI ID = 5

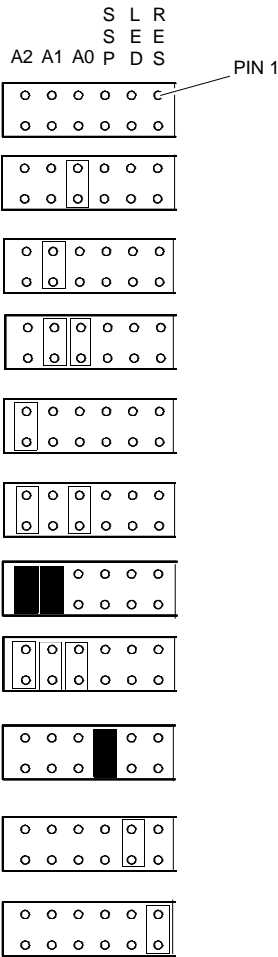
SCSI ID = 6 (Default)

SCSI ID = 7

ONEables drive motor synchronization *
OFFDisables drive motor synchronization

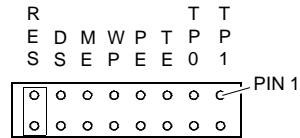
Pin used for connection to a remote LED (jumper not installed)

Reserved (jumper not installed)



JUMPERS J2

Reserved
(jumper not installed)



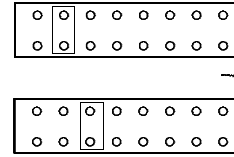
DSME

OFFOFFThe motor starts at power on *

OFFONThe motor starts with a Start command

ONOFFThe motor of drive 0 starts at power on, that of drive 1 starts after 12 sec, that of drive 2 after 24 sec, etc.

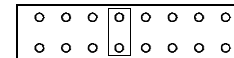
ONONThe motor starts with a Start command.



Note: On M6-850/860/880, SNX 1XX /E Systema and LSX 5025 E systems the drives can be jumpered so that the motor starts with the Start command instead of at power on. This is because the drives on these systems are enabled by a SCSI command with a BIOS-determined delay, to limit HDU absorptions at power-on.

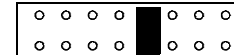
ONThe drive is write protected

OFFThe drive is not write protected *



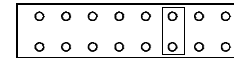
ONThe terminators are enabled *

OFFParity checking is disabled



ONTerminators enabled

OFFTerminators disabled



Note: This drive has permanent terminators which are enabled by jumper TE. Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems (for example SNX 1xx) termination is made directly on the drive while on others (for example LSX 50xx) it is always made on the SCSI cable or on the disk support.

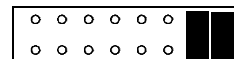
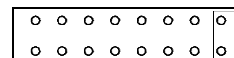
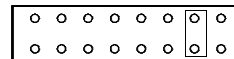
TP0TP1

OFFOFFThe terminators are not powered

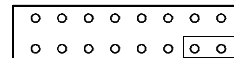
ONOFFThe terminators are powered by the drive

OFFONThe drive provides power to pin 26 of the SCSI bus (Terminator Power signal); the internal terminators are not powered.

ONONThe terminators are powered by the drive, which also provides power to pin 26 of the SCSI bus (Terminator Power signal) *



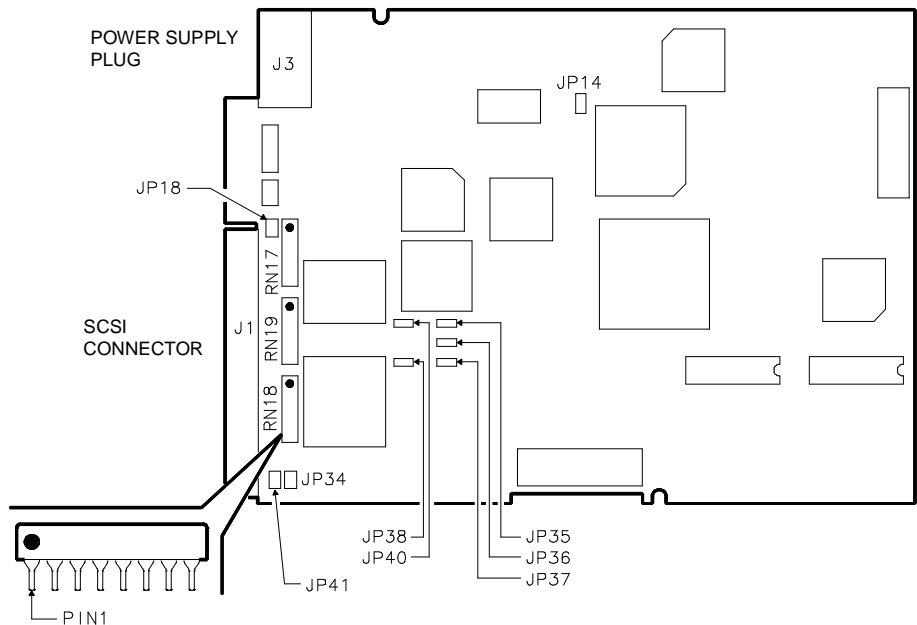
With the jumper installed horizontally, the terminators receive power from pin 26 of the SCSI bus (Terminator Power signal).
Jumper not installed.



Note: Jumper block J5 is not used.

MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
ST3620N	5411 RPM	2700	3	5	RLL 1.7
ST31200N	5411 RPM	2700	5	9	RLL 1.7
ST12400N	5411 RPM	2611	10	19	RLL 1.7

650 MB HDU	MAXTOR XT8760S	SCSI
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ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
3600 RPM	1632	8	15	RLL 2.7

JUMPERS			SCSI ID SELECTION
JP35	JP36	JP37	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

JUMPERS		POWER SUPPLY TO THE TERMINATORS
JP41	JP34	
ON	OFF	The drive provides the power supply for the terminators * The terminators are supplied by the Terminator Power signal The drive provides power to pin 26 of the SCSI bus (Term. Power)
OFF	ON	
ON	ON	

JUMPERS		DRIVE MOTOR START-UP
JP14	JP38	
ON	OFF/ON	The motor starts at power-on * The motor starts with the Start command The motor starts in the ID sequence (11, 13 sec. delay per SCSI ID)
OFF	ON	
OFF	OFF	

JUMPER JP18	WRITE ENABLE
ON	Write disabled
OFF	Write enabled *

JUMPER JP40	SCSI BUS PARITY CHECK
ON	Parity check enabled *
OFF	Parity check disabled

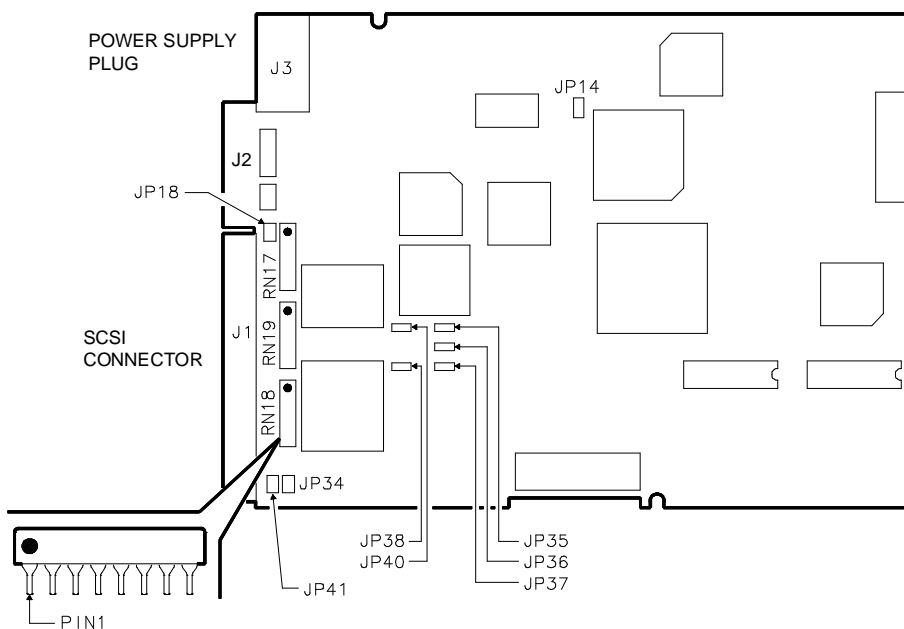
The following jumpers are not shown in the figure of the drive. Their setting was made at the factory and must not be changed.

JUMPERS	JP10	JP11	JP15	JP26	JP32	JP33	JP39	TXD-E19
SETTING	ON	ON	OUT	OUT	ON	ON	ON	ON

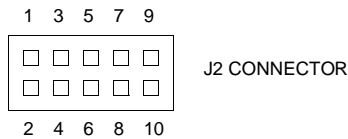
TERMINATION RESISTANCES RN17, RN18 AND RN19

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween.

650 MB HDU	MAXTOR XT8760SH	SCSI
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ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
3600 RPM	1632	8	15	RLL 2.7



CONNECTOR J2			SCSI ID SELECTION
PIN 5-6	PIN 3-4	PIN 1-2	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

Note: Pins 7-8 of connector J2 are not connected. Pins 9 and 10 correspond to Remote +LED and Remote -LED, respectively, and are both not used.

JUMPERS		POWER SUPPLY TO THE TERMINATORS
JP41	JP34	
ON	OFF	The drive provides the power supply for the terminators *
OFF	ON	The terminators are supplied by the Terminator Power signal
ON	ON	The drive provides power to pin 26 of the SCSI bus (Term. Power)

JUMPERS		DRIVE MOTOR START-UP
JP14	JP38	
ON	OFF/ON	The motor starts at power-up *
OFF	ON	The motor starts with a Start command
OFF	OFF	The motor starts according to the ID sequence (11, 13 sec. delay per SCSI ID)

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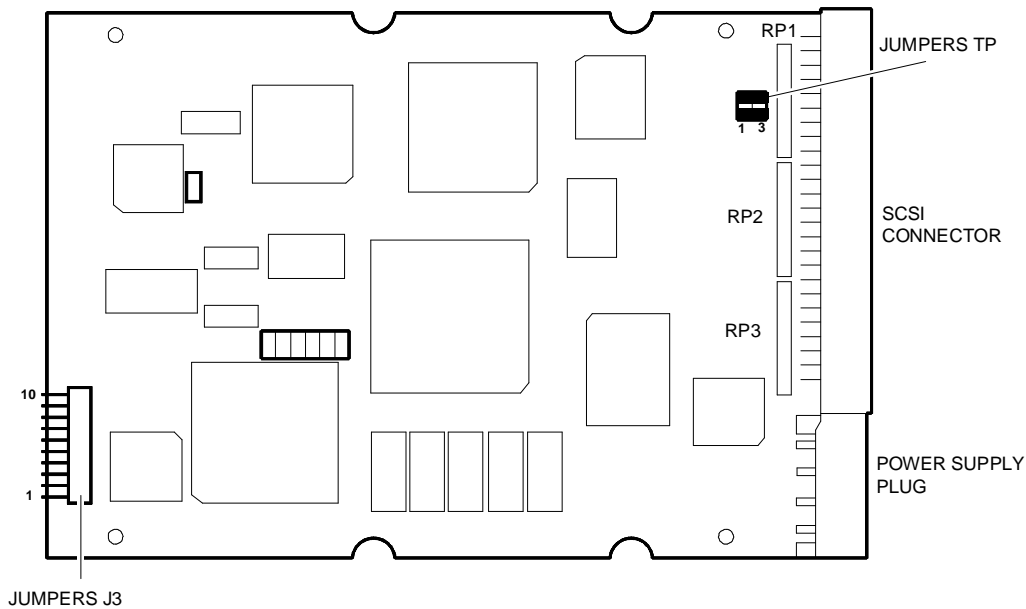
JUMPER JP18	WRITE ENABLE
ON	Write to disk disabled
OFF	Write to disk enabled *

JUMPER JP40	SCSI BUS PARITY CHECK
ON	Parity check enabled *
OFF	Parity check disabled

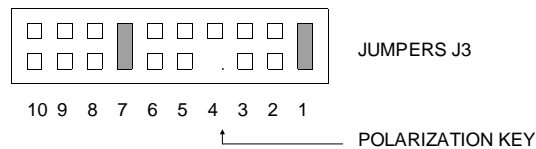
TERMINATION RESISTANCES RN17, RN18 AND RN19

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween.

1.05 GB HDU	DIGITAL DSP3105	SCSI-2
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ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
5400 RPM		7		RLL 1.7



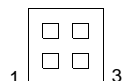
JUMPERS J3			SCSI ID SELECTION
3	2	1	
OFF	OFF	OFF	0
OFF	OFF	ON	1
OFF	ON	OFF	2
OFF	ON	ON	3
ON	OFF	OFF	4
ON	OFF	ON	5
ON	ON	OFF	6
ON	ON	ON	7

JUMPER J3	DESCRIPTION
4 5	The pins in position 4 and 5 have the FLT_SINK and BSY_SINK signals respectively, which permit display on a remote console of the status of the FLT (fault) and BSY (busy) signals. This feature is not used and no jumpers are fitted in either of the positions.

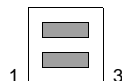
JUMPER J3-7	DRIVE MOTOR START
OFF	Motor starts on the Start command
ON	Motor starts at power-up *

Note: On M6-850/860/880 and LSX 5025 E systems the drives can be jumpered so that the motor starts with the Start command instead of at power on. This is because the drives on these systems are enabled by a SCSI command with a BIOS-determined delay, to limit HDU absorptions at power-on.

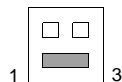
Note: The other position of the J3 jumpers are reserved and are in the OFF condition.



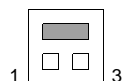
The terminators are not powered, either by the Terminator Power signal nor by the drive



The Terminal Power signal and drive provide power to the terminators. The drive also provides power to SCSI pin 26 (Term. Power) *



The terminators are powered by the drive *



The terminators are powered by the Terminator Power signal

TERMINATION RESISTANCES RP1, RP2 AND RP3

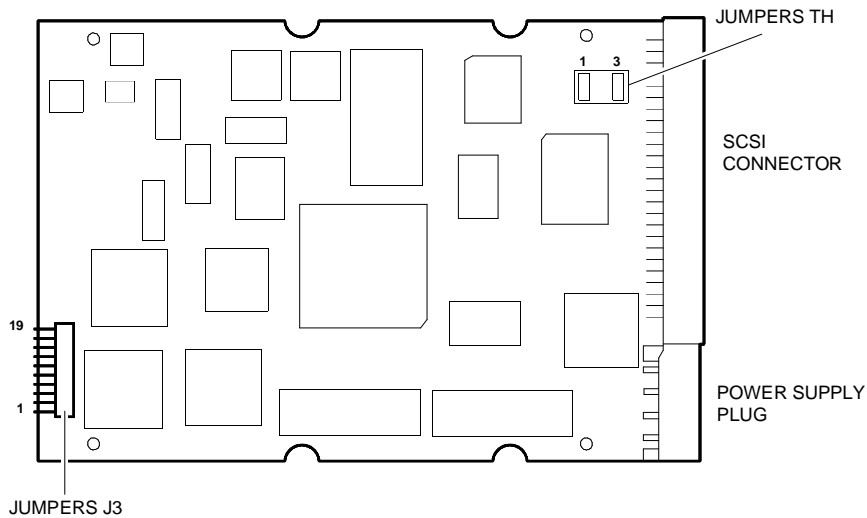
Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems termination is made directly on the drive while on others (for example LSX 50xx) it is always made on the SCSI cable or on the disk support.

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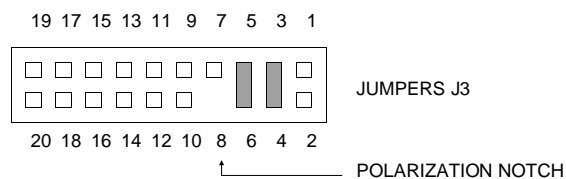
DIAGNOSTIC LED

Opposite the SCSI connector on the drive board, there are two LEDs: a green LED named BSY (busy) and an amber LED named FLT (fault). If the BSY LED is lit on, then the drive is executing an SCSI command whereas if the FLT LED is lit, then an error has occurred. Both LEDs blink briefly when the system is powered up.

1.05 GB HDU	DIGITAL DSP3107L	SCSI-2
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ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
5400 RPM		4		RLL 1.7



JUMPERS J3			SCSI ID SELECTION
PIN 5-6	PIN 3-4	PIN 1-2	
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

JUMPER J3 PIN 13-14	DRIVE MOTOR START
OFF	Motor starts on the Start command
ON	Motor starts at power-up *

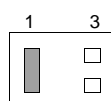
Note: On M6-850/860/880, SNX1XX/E Systema and LSX 5025 E systems the drives can be jumpered so that the motor starts with the Start command instead of at power on. This is because the drives on these systems are enabled by a SCSI command with a BIOS-determined delay, to limit HDU absorptions at power-on.

JUMPER J3			DESCRIPTION
PIN 7	PIN 9	PIN 11	Signals FLT_OUT L and BSY_OUT L are on pins 7 and 9, respectively. When connected to pin 11 (+5 VDC OUT), these signals make it possible to view the status of the FLT (fault) and BSY (busy) LEDs on the remote console. Since this feature is not used there are no jumpers in these positions.

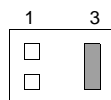
JUMPER J3 PIN 19-20	DRIVE MOTOR SYNCHRONIZATION
OFF	Other drives with the drive motor synchronization feature can be connected to these two pins. Since this feature is not used, there are no jumpers on these pins.

Note: The other position of the J3 jumpers are reserved and are in the OFF condition.

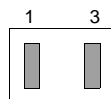
JUMPERS TH (Terminator Power Supply and Enable)



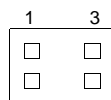
The drive provides the Terminator Power signal to the SCSI bus and the active terminators are disabled.



The drive does not provide the Terminator Power signal to the SCSI bus and the active terminators are enabled.



The drive provides the Terminator Power signal to the SCSI bus and the active terminators are enabled.



The drive does not provide the Terminator Power signal to the SCSI bus and the active terminators are disabled.

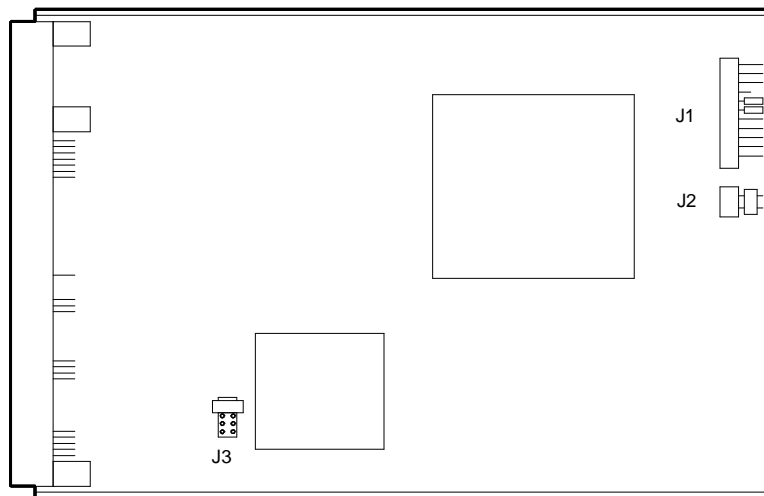
9

Note: This drive has permanent terminators which are enabled by means of jumper TH, pins 3-4. Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems (for example SNX 1xx) termination is made directly on the drive while on others (for example LSX 50xx) it is always made on the SCSI cable or on the disk support. As far as power to the terminators is concerned, the drive must provide the Terminator Power signal to the SCSI bus and therefore jumper TH must always be inserted on pins 1-2.

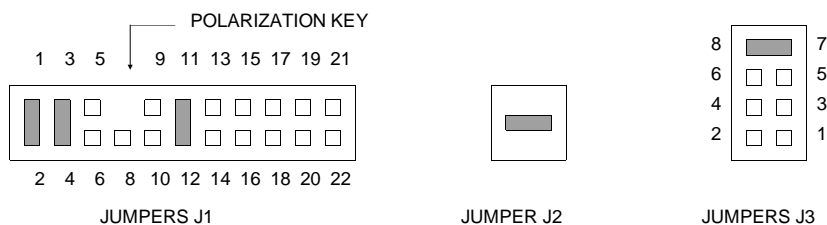
DIAGNOSTIC LEDs

There are two LEDs next to jumper J3: a green LED called BSY (busy) and an amber LED called (FLT (fault). The BSY LED comes on to indicate whenever the drive is running a SCSI command, while the FLT LED comes on to indicate that an error has occurred. Both LEDs flash briefly at power on.

1.05 GB HDU	IBM 0662 Mod. S12	SCSI
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ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
5400 RPM	3016 Notch 1 1120 Notch 2	3		RLL 1.7



JUMPERS J1			SCSI ID SELECTION
PIN 1-2	PIN 3-4	PIN 5-6	
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

JUMPER J1 PIN 9-10	DRIVE MOTOR START-UP
OFF	Motor starts on the Start command *
ON	Motor starts at power-up

Note: This drive will only be installed in M6-850/860/880 systems and therefore must be jumpered so the drive motor starts with the Start command instead of at power on.

JUMPERS J1 PIN 11-12	TERMINATOR ENABLED
OFF	The terminators on the SCSI channel are disabled
ON	The terminators on the SCSI channel are enabled

Note: This drive has permanent terminators consisting of two chips soldered on the board and which are enabled by means of jumper J1, pins 11-12.
Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween.

JUMPERS J1 PIN 13-14	SYNCHRONIZATION
OFF	Synchronization disabled *
ON	Synchronization enabled

JUMPERS J1 PIN 15-16	CONNECTION TO REMOTE LED
ON	Pin 15 is connected to the cathode, pin 16 to the anode of the remote LED
OFF	Standard configuration *

JUMPERS J1 PIN 17-18	WRITE PROTECT ENABLE
ON	The drive is write protected
OFF	The drive is not write protected *

JUMPERS J1 PIN 19-20	DRIVE MOTOR START-UP DELAY
ON	Sets a drive motor start-up automatic delay
OFF	Disables drive motor start-up delay *

Note: The drive motor start-up delay is already determined by the BIOS when the motor starts with the Start command.

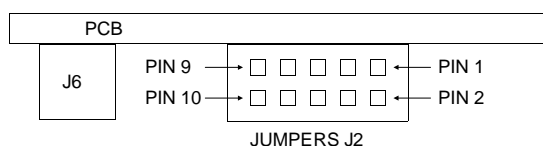
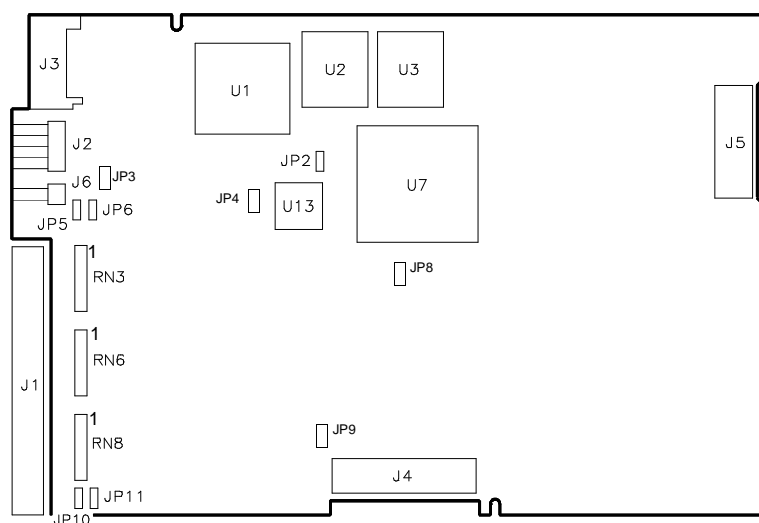
JUMPERS J2	TERMINATOR POWER SUPPLY
OFF	The terminators are powered by the Terminal Power signal
ON	The drive provides power to the terminators *

JUMPERS J3 PIN 3-4	UNIT ATTENTION
ON	Enables Unit Attention
OFF	Disables Unit Attention *

JUMPERS J3 PIN 5-6	SCSI BUS PARITY CHECK
OFF	Parity check enabled *
ON	Parity check disabled

JUMPERS J3 PIN 7-8	SYNC. NEGOTIATIONS
ON	The drive disables the request for sync transfers *
OFF	The drive enables the request for sync transfers

Nota: Jumpers J1, pins 21-22, and J3, pins 1-2 are not used and are therefore in the OFF position.

1.4 GB HDU**MAXTOR P1-17S (Panther)****SCSI****BOARD 1027462**

ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
3600 RPM	1778	10	19	RLL 1.7

JUMPERS J2			SCSI ID SELECTION
PIN 9-10	PIN 7-8	PIN 5-6	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

JUMPER J2 PIN 3-4	SCSI BUS PARITY CHECK
OFF	Parity check enabled *
ON	Parity check disabled

Note: Pins 1-2 of jumper J2 for remote LED connection are not used.

JUMPER JP2	WRITE PROTECT ENABLE
ON	The drive is write protected
OFF	The drive is not write protected *

JUMPERS		SYNCHRONIZATION
JP5	JP6	
ON	ON	150 Ohm terminator on the synchronized slave drive
OFF	OFF	150 Ohm terminator on the synchronized master drive
		Standard configuration *

JUMPERS		POWER SUPPLY TO THE TERMINATORS
JP10	JP11	
ON	OFF	The terminators are supplied by the Terminator Power signal
OFF	ON	The drive provides power supply to the terminators *
ON	ON	The drive provides power supply to pin 26 of the SCSI bus (Term. Power)

Note: The remaining jumpers must be set as follows:

JP3 = OFF

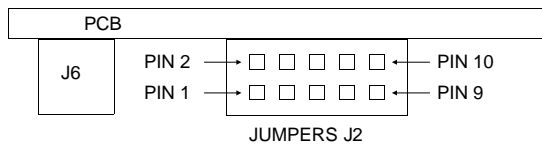
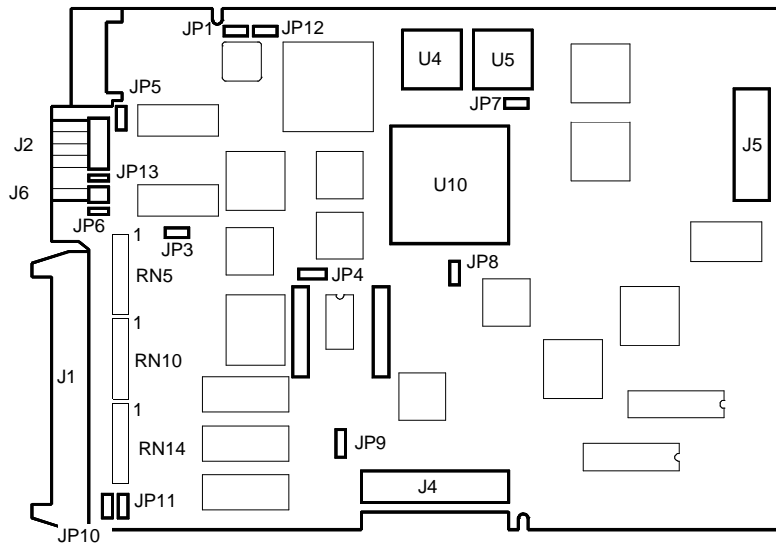
JP4 = ON (position 1-2)

JP8 = ON (position 1-2)

JP9 = ON (position 1-2)

TERMINATION RESISTANCES RN3, RN6 AND RN8

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems termination is made directly on the drive while on others (for example LSX 50xx) it is always made on the SCSI cable or on the disk support.

BOARD 1027334 or 1027982

JUMPERS J2			SCSI ID SELECTION
PIN 5-6	PIN 3-4	PIN 1-2	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

JUMPER J2 PIN 7-8	WRITE PROTECT ENABLE
ON	The drive is write protected
OFF	The drive is not write protected *

Note: Pins 9-10 of jumper J2 for remote LED connection are not used

JUMPERS		SYNCHRONIZATION FEATURE
JP5	JP6	
ON	ON	Slave drive 150 ohm termination synchronized
OFF	ON	Master drive 150 ohm termination synchronized.
OFF	OFF	Standard configuration *

JUMPERS		POWER SUPPLY TO THE TERMINATORS
JP10	JP11	
ON	OFF	The terminators are supplied by the Terminator Power signal
OFF	ON	The drive powers the terminators *
ON	ON	The drive provides power supply to SCSI bus pin 26 (Term. Power)

JUMPER JP13	WRITE PROTECT ENABLE
OFF	Enable parity checking *
ON	Disable parity checking

JUMPERS		POWER SUPPLY TO THE TERMINATORS
JP1	JP12	
OFF	OFF	Drive starts in accordance to ID sequence
OFF	ON	Drive starts with a delay of 11-13 sec.
ON	OFF	Drive starts after the Start command
ON	ON	Drive starts when powered *

Note: On LSX 5025 E systems the drives can be jumpered so that the motor starts with the Start command instead of at power on. This is because the drives on these systems are enabled by a SCSI command with a BIOS-determined delay, to limit HDU absorptions at power-on.

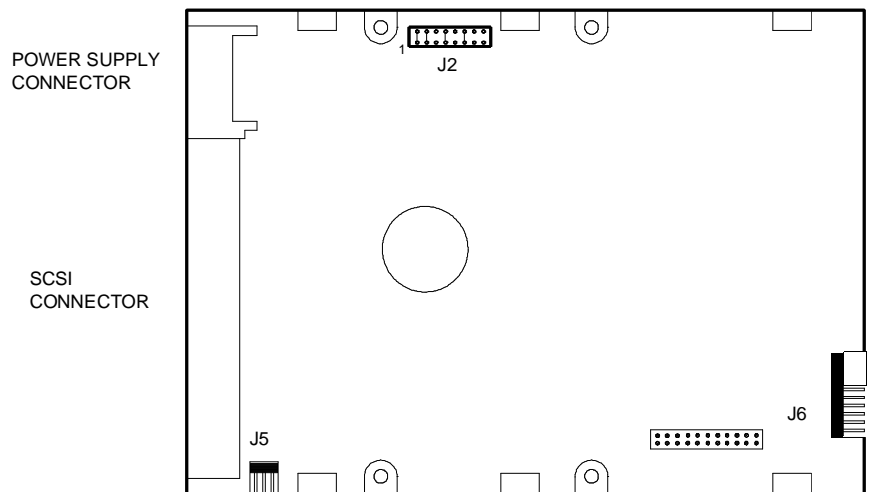
Note: The remaining jumpers must be set as follows:

JP3 = OFF
 JP4 = ON (position 1-2)
 JP8 = ON (position 1-2)
 JP9 = ON (position 1-2)

TERMINATION RESISTANCES RN5, RN10 AND RN14

Whether terminators are present or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems termination is made directly on the drive while on others (for example LSX 50xx) it is always made on the SCSI cable or on the disk support.

1.05 GB HDU 2.1 GB HDU 4.2 GB HDU	SEAGATE ST31230N (Hawk 2LP) SEAGATE ST32430N (Hawk 2LP) SEAGATE ST15230N (Hawk 4)	SCSI-2
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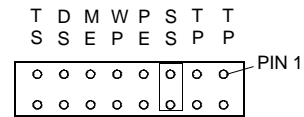
JUMPERS J6

	Reserved	A 2	A 1	A 0	E S	L D	R S	R S	PIN 1
SCSI ID = 0	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○
SCSI ID = 1	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○
SCSI ID = 2	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○
SCSI ID = 3	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○
SCSI ID = 4	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○
SCSI ID = 5	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○
SCSI ID = 6 (Default)	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○
SCSI ID = 7	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○
Reserved (jumper not inserted)	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○
Pins used for remote LED connection (jumper not inserted)	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○
Reserved (jumper not inserted)	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○	○ ○ ○ ○

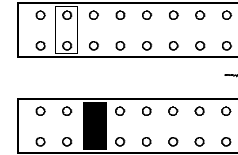
Note: The four reserved jumpers to the left of J6 are always set to OFF (not inserted) and are protected by a plastic cover which is fitted at the factory.

JUMPERS J2

Reserved
(jumper not inserted)

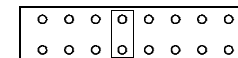
**DS ME**

OFF OFF Motor starts at power on
 OFF ON Motor starts upon reception of a start command *
 ON OFF Motor or drive 0 starts at power on, of drive 1 after 12 sec., drive 2 after 24 sec. etc.
 ON ON The motor starts upon reception of a start command

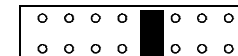


Note: On SNX 1xx/E Systema systems the drives must be jumpered so that the motors start upon reception of the Start command instead of at power on. In order to limit power absorption at power on by the HDUs on these systems, the drives will be enabled by a SCSI command with a BIOS set delay.

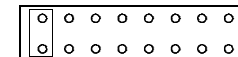
ON Drive write protected
 OFF Drive not write protected *



ON Parity checking enabled *
 OFF Parity checking disabled



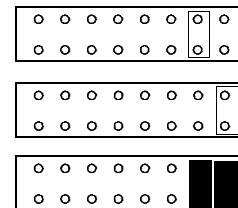
ON Terminators enabled
 OFF Terminators disabled



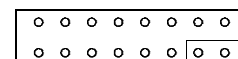
Note: The terminators cannot be removed from this drive and are enabled by jumper TE. Whether the terminators are enabled or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems (for example SNX 1xx) termination is made directly on the drive while on other systems it is made at the end of the SCSI cable.

9

TP TP
 OFF OFF Terminators not powered
 ON OFF Terminators powered by the drive
 OFF ON Drive provides power supply to pin 26 of the SCSI bus (Terminator Power signal); the internal terminators are not powered
 ON ON Terminators powered by the drive which also provides the power supply to pin 26 of the SCSI bus (Terminator Power signal) *



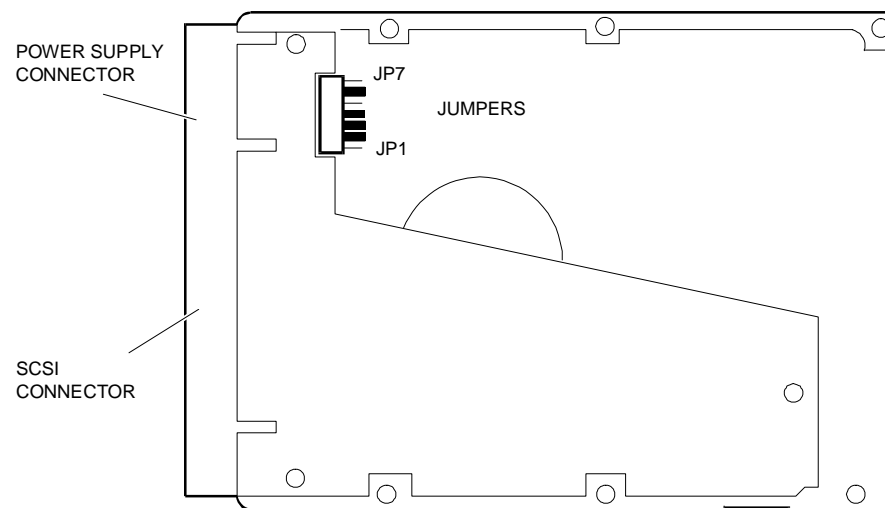
With the jumper inserted horizontally the terminators will receive power supply from pin 26 of the SCSI bus (Terminator Power signal). Jumper not inserted.



Note: Jumper block J5 is not used and therefore all the jumpers must be in the OFF position (not inserted).

MODEL	ROTATION	CYLINDERS	DISKS	HEADS	REGISTRATION
ST31230N	5411 RPM	3992	3	5	RLL 1.7
ST32430N	5411 RPM	3992	5	9	RLL 1.7
ST15230N	5411 RPM	3992	10	19	RLL 1.7

1.05 GB HDU	IBM DPES-31080	SCSI-2
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MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORDING
DPES-31080	5400 RPM		2	4	PRML

JUMPERS			SCSI ID SELECTION
JP1 (PINs 1-2)	JP2 (PINs 3-4)	JP3 (PINs 5-6)	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

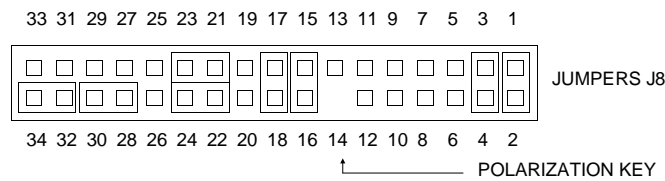
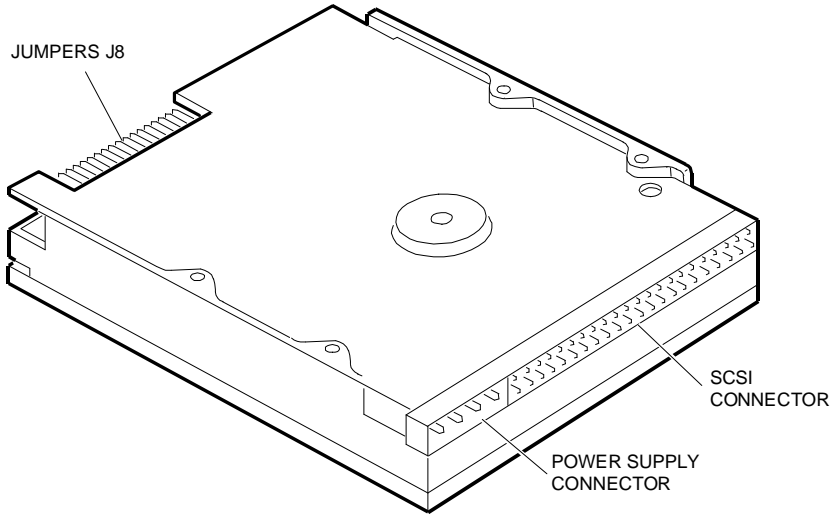
JUMPER JP4 (PINs 7-8)	DRIVE MOTOR START-UP
ON	The motor starts upon reception of a Start command *
OFF	The motor starts at power on

JUMPER JP5 (PINs 9-10)	UNIT ATTENTION FEATURE
ON	Unit Attention disabled at power on or at SCSI bus reset
OFF	Unit Attention enabled at power on or at SCSI bus reset *

JUMPER JP6 (PINs 11-12)	TERMINATOR ENABLE
OFF	Terminators disabled
ON	Terminators enabled

Note: *The terminators cannot be removed from this drive and are enabled by jumper JP6. Whether the terminators are enabled or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems termination is made directly on the drive while on others it is made at the end of the SCSI cable.*

JUMPER JP7 (PINs 13-14)	REMOTE LED CONNECTION
OFF *	Jumper JP7 is used for remote LED connection and is not used (jumper not inserted).
ON	

1.05 GB HDU**SEAGATE ST51080N****SCSI-2**

MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORDING
ST51080N	5376 RPM	4826	2	4	RLL 1.7

JUMPERS J8			SCSI ID SELECTION
PINs 5-6	PINs 3-4	PINs 1-2	
OFF	OFF	OFF	0
ON	OFF	OFF	1
OFF	ON	OFF	2
ON	ON	OFF	3
OFF	OFF	ON	4
ON	OFF	ON	5
OFF	ON	ON	6
ON	ON	ON	7

JUMPERS J8 (PINs 9-10)	REMOTE LED CONNECTION
OFF *	Pins 9 and 10 are used for remote LED connection and are not used (jumper not inserted)
ON	

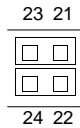
JUMPERS J8 PINs 15-16	DRIVE MOTOR START-UP
ON *	The motor starts upon reception of a Start command
OFF	The motor starts at power on

JUMPERS J8 PINS 17-18	PARITY CHECKING ENABLE
OFF	Disables parity checking on the SCSI bus
ON *	Enables parity checking on the SCSI bus

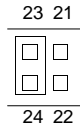
JUMPERS J8 PINS 19-20	TERMINATOR ENABLE
ON	SCSI terminators disabled
OFF	SCSI terminators enabled

Note: *The terminators cannot be removed from this drive and are enabled by pins 19 and 20 of J8. Whether the terminators are enabled or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems termination is made directly on the drive while on others it is made at the end of the SCSI cable.*

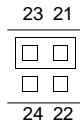
JUMPERS J8 PINS 21, 22, 23 and 24 (Terminator Power Supply)



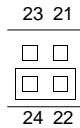
The terminators are powered by the drive which also provides the power supply to pin 26 of the SCSI bus (Terminator Power signal) *



The terminators are powered by the drive



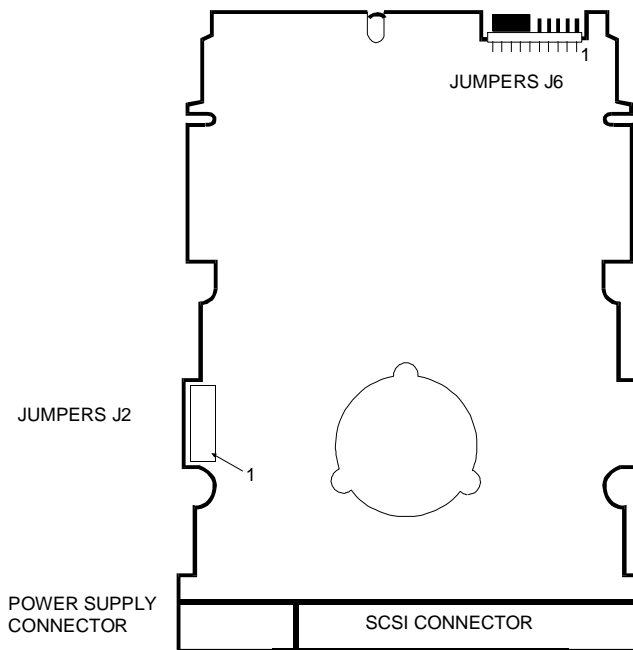
The terminators are not powered



The drive provides power supply to pin 26 of the SCSI bus (Terminator Power signal); the internal terminators are not powered

Note: *All other pins of J8 are reserved and must not be used. The jumpers on pins 28 and 30 and on pins 32 and 34 are spares; these pins do not require that jumpers be inserted.*

1.05 GB HDU 2.1 GB HDU	SEAGATE ST31051N (Hawk 2XL) SEAGATE ST32151N (Hawk 2XL)	SCSI-2
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JUMPERS J6

SCSI ID = 0

SCSI ID = 1

SCSI ID = 2

SCSI ID = 3

SCSI ID = 4

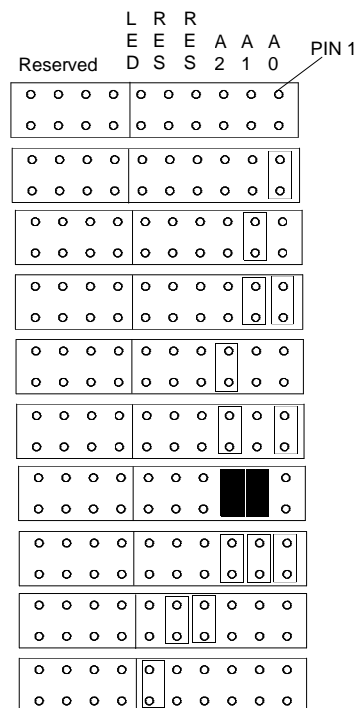
SCSI ID = 5

SCSI ID = 6 (Default)

SCSI ID = 7

Reserved (jumpers not inserted)

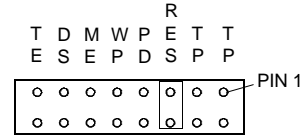
Pins used for remote LED connection
(jumper not inserted)



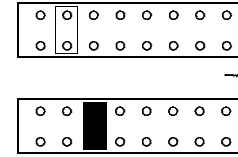
Note: The four reserved jumpers to the left of J6 are always set to OFF (not inserted) and are protected by a plastic cover which is fitted at the factory.

JUMPERS J2

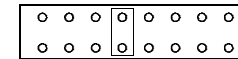
Reserved
(jumper not inserted)



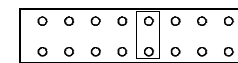
DS ME
 OFF OFF Motor starts at power on
 OFF ON Motor starts upon reception of a start command *
 ON OFF Motor or drive 0 starts at power on, of drive 1 after 12 sec., drive 2 after 24 sec. etc.
 ON ON The motor starts upon reception of a start command



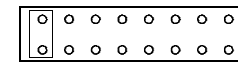
ON Drive write protected
 OFF Drive not write protected *



ON Parity checking disabled
 OFF Parity checking enabled *

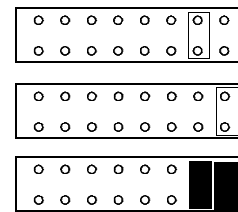


ON Terminators enabled
 OFF Terminators disabled

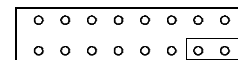


Note: The terminators cannot be removed from this drive and are enabled by jumper TE. Whether the terminators are enabled or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems (for example SNX 1xx) termination is made directly on the drive while on other systems it is made at the end of the SCSI cable.

TP TP
 OFF OFF Terminators not powered
 ON OFF Terminators powered by the drive
 OFF ON Drive provides power supply to pin 26 of the SCSI bus (Terminator Power signal); the internal terminators are not powered
 ON ON Terminators powered by the drive which also provides the power supply to pin 26 of the SCSI bus (Terminator Power signal) *



With the jumper inserted horizontally the terminators will receive power supply from pin 26 of the SCSI bus (Terminator Power signal). Jumper not inserted.

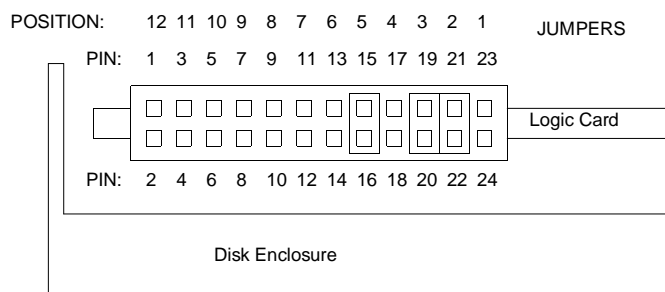
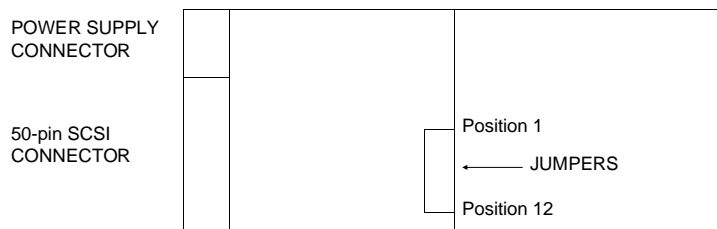


9

MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORDING
ST31051N	5411 RPM	4176	2	4	RLL 1.7
ST32151N	5411 RPM	4176	4	8	RLL 1.7

HDUs WITH SINGLE-ENDED ULTRA NARROW SCSI INTERFACE

2.1 GB HDU 2.1 GB HDU 4.2 GB HDU	IBM DORS-32160 (Orion) IBM DCAS-32160 (Capricorn) IBM DCAS-34330 (Capricorn)	SCSI-2
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MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORDING
DORS-32160	5400 RPM		3	5	PRML
DCAS-32160	5400 RPM		2	3	PRML
DCAS-34430	5400 RPM		3	6	PRML

JUMPERS			SCSI ID SELECTION
POSITION 2	POSITION 3	POSITION 4	
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

JUMPERS - POSITION 6	TERMINATOR ENABLE
OFF	SCSI terminators disabled
ON	SCSI terminators enabled

Note: The terminators cannot be removed from this drive and are enabled by the jumper in position 6 (pins 13-14). Whether the terminators are enabled or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems termination is made directly on the drive while on others it is made at the end of the SCSI cable.

JUMPER POSITION 7	UNIT ATTENTION FEATURE
OFF *	Disables UAI (Unit Attention Inhibit) control in Mode Page 0
ON	Enables UAI (Unit Attention Inhibit) control in Mode Page 0

JUMPERS			DRIVE MOTOR START-UP
POS. 5	POS. 9	POS. 10	
ON	Any	Any	The motor starts upon reception of a Start command *
OFF	OFF	OFF	The motor starts at power on
OFF	ON	OFF	The motor starts at power on, with a delay of 6 seconds multiplied by the SCSI ID
OFF	ON	ON	The motor starts at power on, with a delay of 12 seconds multiplied by the SCSI ID

JUMPER - POSITION 11	PARITY CHECKING ENABLE
ON	Parity checking on the SCSI bus disabled
OFF *	Parity checking on the SCSI bus enabled

9

JUMPER - POSITION 12	REMOTE LED CONNECTION
OFF *	Pins 1 and 2 (pos. 12) are for remote LED connection and are not used (jumper not inserted)
ON	

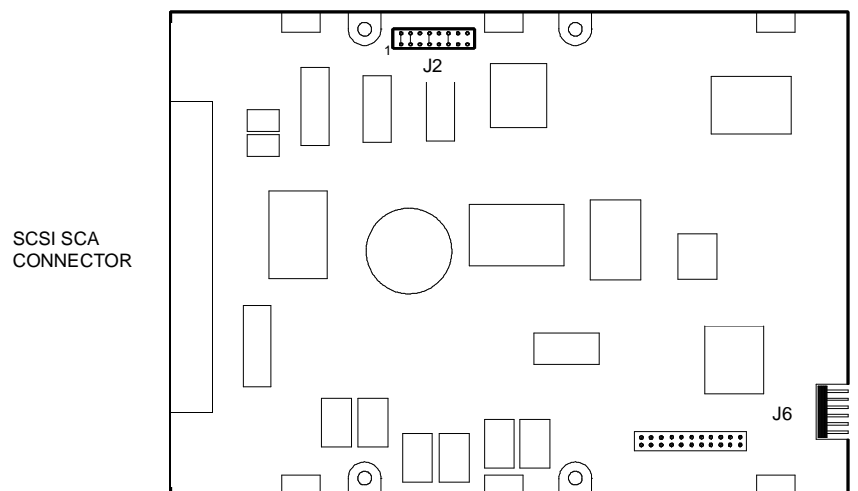
JUMPER POSITION 8	TI-SDTR ENABLE (for DCAS-32160/34330 only)
ON	Target Initiated Synchronous Data Transfer Request Negotiation enable
OFF *	Target Initiated Synchronous Data Transfer Request Negotiation disable

Note: Pins 23 and 24 (position 1) and pins 9 and 10 (position 8) of the DORS 32160 are reserved and must not be used. They must remain set in the OFF position.

Note: Pins 23 and 24 (position 1) of the DCAS-32160 and DCAS-34330 are reserved and must not be used. They must remain set in the OFF position.

HDUs WITH SINGLE-ENDED SCSI NARROW INTERFACE AND SCA CONNECTOR

525 MB HDU 1.05 GB HDU 2.1 GB HDU	SEAGATE ST3620NC SEAGATE ST31200NC (Hawk 1LP) SEAGATE ST12400NC (Hawk 2)	SCSI-2
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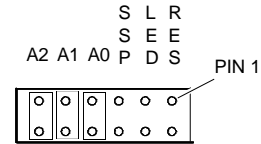
MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORD.
ST3620NC	5411 RPM	2700	3	5	RLL 1.7
ST31200NC	5411 RPM	2700	5	9	RLL 1.7
ST12400NC	5411 RPM	2611	10	19	RLL 1.7

Note 1: With respect to the ST3620N, ST31200N and ST12400N drives, these HDUs have a single 80-pin (SCSI signals + power supply) SCA interface instead of the normal 50-pin SCSI and 4-pin power supply connectors. Also, these drives do not have jumper block J5. The 80-pin SCA connector has the automatic SCSI ID selection signals, drive motor start-up and delay signals, drive motor sync signals and those for connection to a remote LED.

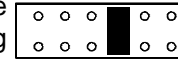
Note 2: These HDUs are always fixed on an appropriate mechanical support so that they can be inserted in resilience systems. This support prevents access to the jumpers on the drive; these jumpers are factory set and must not be changed. On the next page you will find the configuration of the jumpers on the drives.

JUMPERS J6

SCSI ID detection jumpers A2, A1 and A0 must not be used (all jumpers in the OFF, not installed, position) since this function can also be selected on the SCA connector.

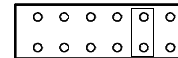


The function provided by the SSP jumper is also available on the SCA connector, but it is not handled automatically and therefore can only be activated by means of a jumper with the following meaning:

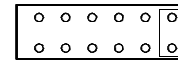


ON Drive motor sync enabled *
OFF Drive motor sync disabled

The LED jumper is used for connection to a remote LED and must not be used (jumper in the OFF, not installed, position) since the same function can also be selected on the SCA connector.

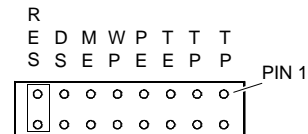


Reserved
(jumper not installed)

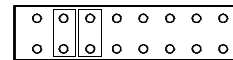


JUMPERS J2

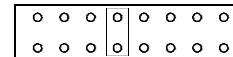
Reserved
(jumper not installed)



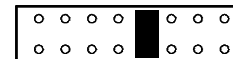
Jumpers DS and ME that determine drive motor start-up and delay must not be used (jumpers in the OFF, not installed, position since this function can also be selected on the SCA connector from where it is possible to set the drive motor to start-up with the Start command.



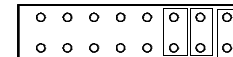
ON The drive is write protected
OFF The drive is not write protected*



ON Parity checking enabled *
OFF Parity checking disabled

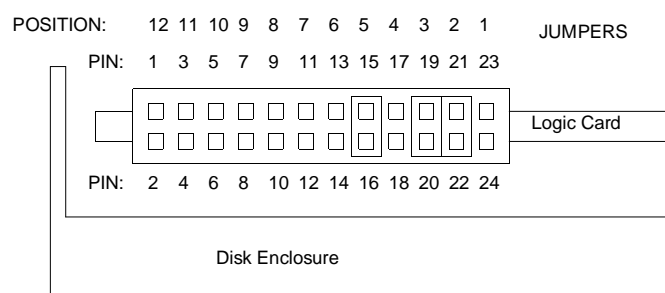
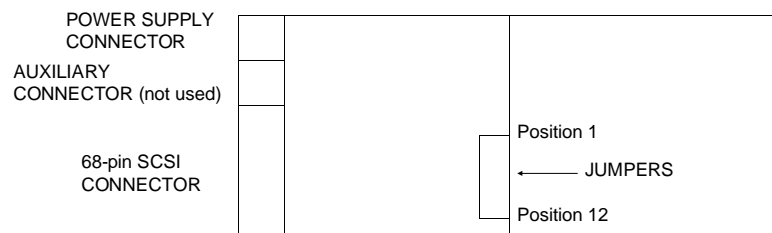


Jumper TE and the two jumpers TP refer to the internal terminators. Since these drives do not have terminators, the jumpers have no meaning and must always be kept in the OFF position.



HDUs WITH SINGLE-ENDED ULTRA WIDE SCSI INTERFACE

2.1 GB HDU 4.2 GB HDU	IBM DCAS-32160 (Capricorn) IBM DCAS-34330 (Capricorn)	SCSI-2
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MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORDING
DCAS-32160	5400 RPM		2	3	PRML
DCAS-34430	5400 RPM		3	6	PRML

JUMPERS				SCSI ID SELECTION
POSITION 1	POSITION 2	POSITION 3	POSITION 4	
OFF	OFF	OFF	OFF	0
OFF	OFF	OFF	ON	1
OFF	OFF	ON	OFF	2
OFF	OFF	ON	ON	3
OFF	ON	OFF	OFF	4
OFF	ON	OFF	ON	5
OFF	ON	ON	OFF	6
OFF	ON	ON	ON	7
ON	OFF	OFF	OFF	8
ON	OFF	OFF	ON	9
ON	OFF	ON	OFF	10
ON	OFF	ON	ON	11
ON	ON	OFF	OFF	12
ON	ON	OFF	ON	13
ON	ON	ON	OFF	14
ON	ON	ON	ON	15

JUMPERS - POSITION 6	TERMINATOR ENABLE
OFF	SCSI terminators disabled
ON	SCSI terminators enabled

Note: The terminators cannot be removed from this drive and are enabled by the jumper in position 6 (pins 13-14). Whether the terminators are enabled or not depends on the configuration of the system SCSI channel. Usually the SCSI channel must only be terminated at its ends (on the first and last device on the bus) while the terminator must be removed from all the peripherals inbetween. On some systems termination is made directly on the drive while on others it is made at the end of the SCSI cable.

JUMPER - POSITION 7	UNIT ATTENTION feature
OFF *	Disables UAI (Unit Attention Inhibit) control in Mode Page 0
ON	Enables UAI (Unit Attention Inhibit) control in Mode Page 0

JUMPER - POSITION 8	TI-SDTR/WDTR ENABLE
ON	Target Initiated Wide Data Transfer Request Negotiation enable
OFF *	Target Initiated Wide Data Transfer Request Negotiation disable

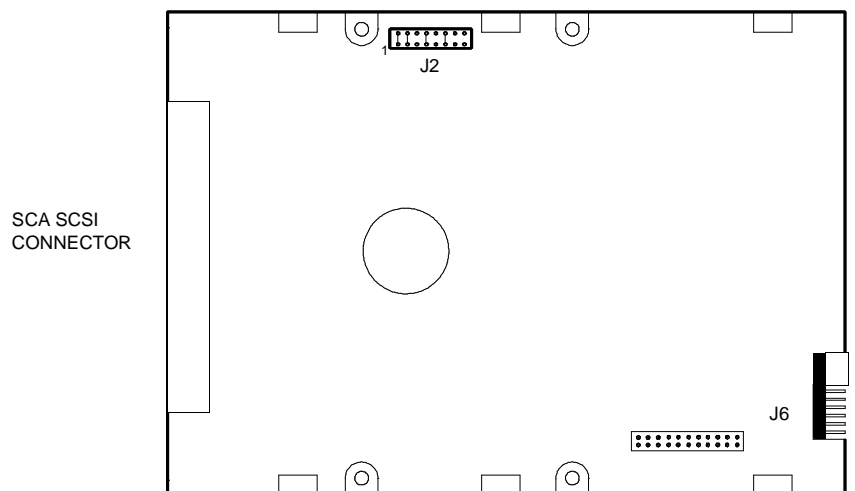
JUMPERS			DRIVE MOTOR START-UP
POS. 5	POS. 9	POS. 10	
ON	Any	Any	The motor starts upon reception of a Start command *
OFF	OFF	OFF	The motor starts at power on
OFF	ON	OFF	The motor starts at power on, with a delay of 6 seconds multiplied by the SCSI ID
OFF	ON	ON	The motor starts at power on, with a delay of 12 seconds multiplied by the SCSI ID

JUMPER - POSITION 11	PARITY CHECKING ENABLE
ON	Parity checking on the SCSI bus disabled
OFF *	Parity checking on the SCSI bus enabled

JUMPER - POSITION 12	REMOTE LED CONNECTION
OFF *	Pins 1 and 2 (pos. 12) are for remote LED connection and are not used (jumper not inserted)
ON	

HDUs WITH SINGLE-ENDED SCSI WIDE INTERFACE AND SCA CONNECTOR

1.05 GB HDU 2.1 GB HDU 4.2 GB HDU	SEAGATE ST31230WC (Hawk 2LP) SEAGATE ST32430WC (Hawk 2LP) SEAGATE ST15230WC (Hawk 4)	SCSI-2
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MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORDING
ST31230WC	5411 RPM	3992	3	5	RLL 1.7
ST32430WC	5411 RPM	3992	5	9	RLL 1.7
ST15230WC	5411 RPM	3992	10	19	RLL 1.7

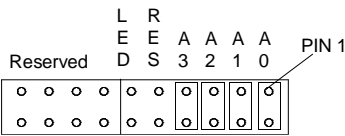
Note 1: These HDUs are equipped with a single 80-pin SCA interface connector (SCSI signals + power supply) instead of having a 68-pin SCSI wide connector and a 4-pin power supply connector. These SCA connectors are 16-bit data interface wide bus connectors (instead of 8-bit) and do not have SCSI terminators. The 80-pin SCA connector includes the signals for the automatic selection of the SCSI ID, for the drive motor start-up and delay, for drive motor synchronization and for remote LED connection.

Note 2: These HDUs are always fitted on a specific mechanical support by means of which they can be installed in resilience structures. This support prevents access to the jumpers on the drive; the jumpers are factory-set and their setting must not be changed. The jumper settings on the drive will be provided further on.

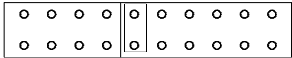
Note 3: In order for these HDUs to be installed on SNX 1xx/S systems, a specific SCSI adapter needs to be plugged into the SCA connector. This adapter renders the standard 68-pin SCSI wide connector, the 4-pin power supply connector, the SCSI ID selection jumpers and SCSI terminators all accessible to the user.

JUMPERS J6

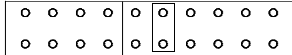
SCSI ID jumpers A3, A2, A1, A0 must not be used (all the jumpers set to the OFF, not inserted, position), since the same function can also be selected on the SCA connector.



The LED jumper is for remote LED connection but must not be used (jumper in the OFF, not inserted, position), since this same function can also be selected on the SCA connector.



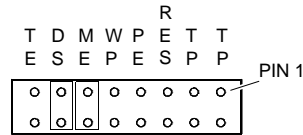
Reserved
(jumper not inserted)



Note: The four reserved jumpers to the left of J6 are always set to the OFF (not inserted) position and are protected by a plastic cover which is inserted at the factory.

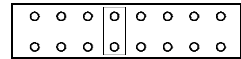
JUMPERS J2

Jumpers DS and ME that determine drive motor start-up and delay, must not be used (jumpers in the OFF, not inserted, position) since this same function can also be selected on the SCA connector where the drive motor start function is activated upon reception of the Start command.

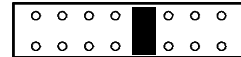


Note: If the drive is fitted on the SNX 1xx/S, it will be jumpered so that the motor starts upon reception of the Start command:
DS = OFF, ME = ON.

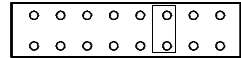
ON Drive write protected
OFF Drive not write protected *



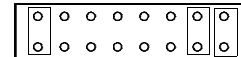
ON Parity checking enabled *
OFF Parity checking disabled

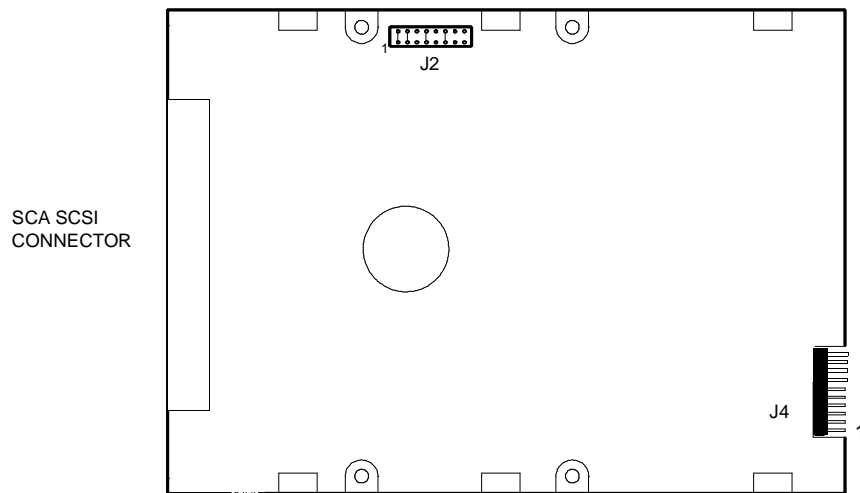


Reserved
(jumper not inserted)



Jumper TE and the two jumpers TP are referred to the internal terminators. There are no terminators on these drives and therefore the jumpers have no meaning and must be kept in the OFF position.



2.1 GB HDU**SEAGATE ST32550WC (Barracuda 2LP)****SCSI-2**

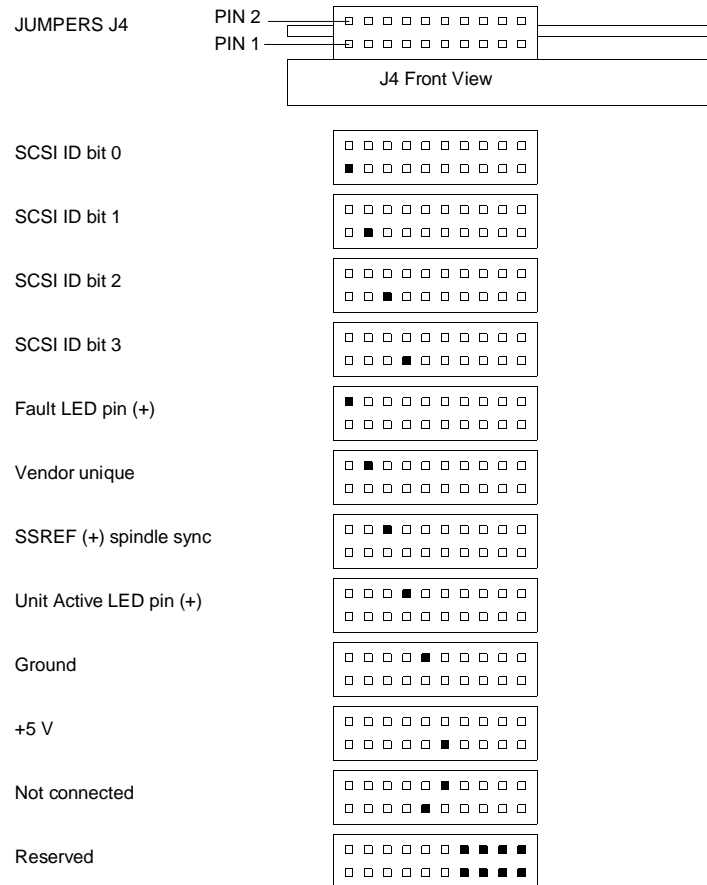
MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORDING
ST32550WC	7200 RPM	3510	5	11	RLL 1.7

Note 1: These HDUs are equipped with a single 80-pin SCA interface connector (SCSI signals + power supply) instead of having a 68-pin SCSI wide connector and a 4-pin power supply connector. These SCA connectors are 16-bit data interface wide bus connectors (instead of 8-bit) and do not have SCSI terminators. The 80-pin SCA connector includes the signals for the automatic selection of the SCSI ID, for the drive motor start-up and delay, for drive motor synchronization and for remote LED connection.

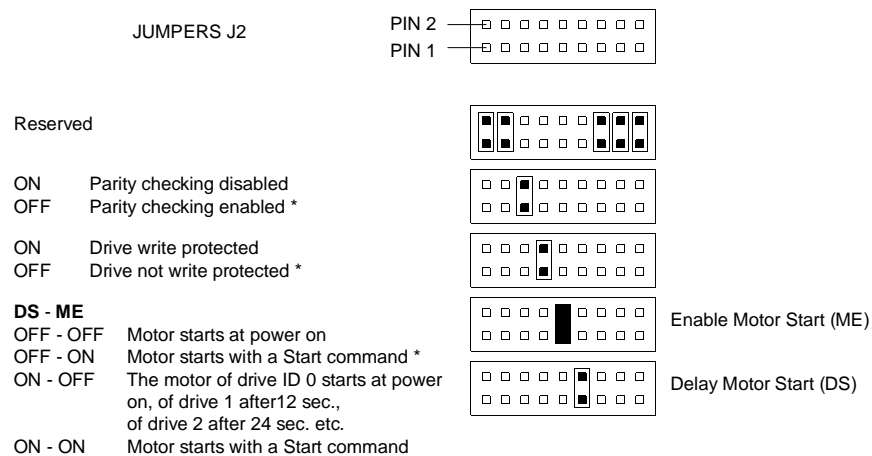
Note 2: These HDUs are always fitted on a specific mechanical support by means of which they can be installed in resilience structures. This support prevents access to the jumpers on the drive; the jumpers are factory-set and their setting must not be changed. The jumper settings on the drive will be provided further on.

Note 3: In order for these HDUs to be installed on SNX 1xx/S systems, a specific SCSI adapter needs to be plugged into the SCA connector. This adapter renders the standard 68-pin SCSI wide connector, the 4-pin power supply connector, the SCSI ID selection jumpers and SCSI terminators all accessible to the user.

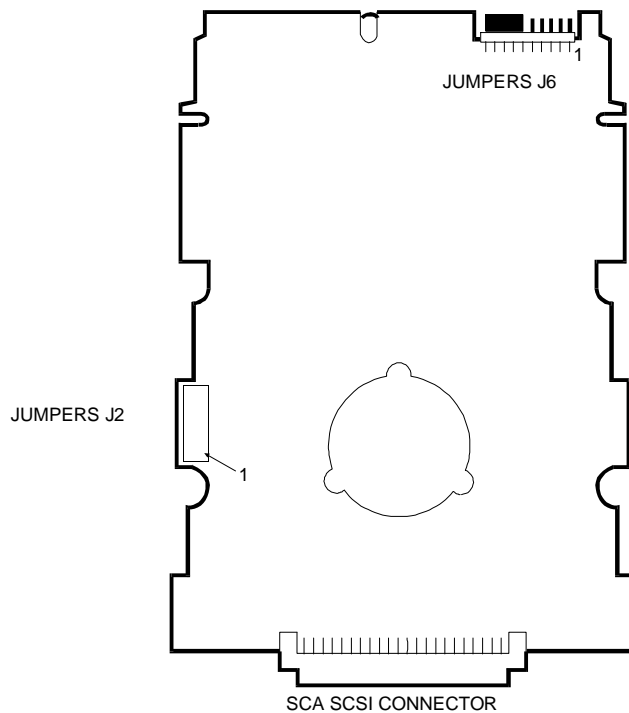
There is no jumper inserted on J4. The pin-out is provided below.



JUMPERS J2



1.05 GB HDU 2.1 GB HDU	SEAGATE ST31051WC (Hawk 2XL) SEAGATE ST32151WC (Hawk 2XL)	SCSI-2
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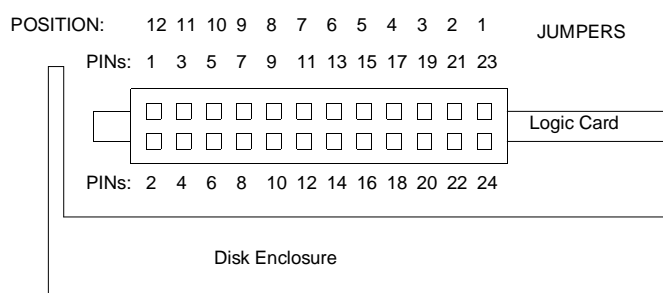
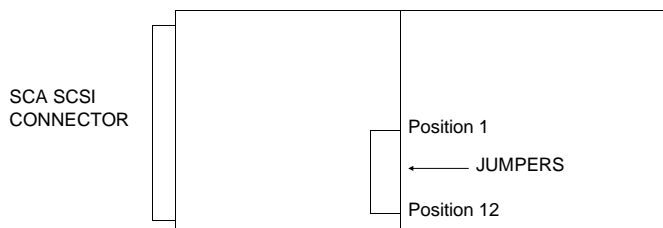
MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORDING
ST31051WC	5411 RPM	4176	2	4	RLL 1.7
ST32151WC	5411 RPM	4176	4	8	RLL 1.7

Note 1: These HDUs are equipped with a single 80-pin SCA interface connector (SCSI signals + power supply) instead of having a 68-pin SCSI wide connector and a 4-pin power supply connector. These SCA connectors are 16-bit data interface wide bus connectors (instead of 8-bit) and do not have SCSI terminators.
The 80-pin SCA connector includes the signals for the automatic selection of the SCSI ID, for the drive motor start-up and delay, for drive motor synchronization and for remote LED connection.

Note 2: These HDUs are always fitted on a specific mechanical support by means of which they can be installed in resilience structures. This support prevents access to the jumpers on the drive; the jumpers are factory-set and their setting must not be changed. The jumper settings on the drive will be provided further on.

HDU WITH SINGLE-ENDED ULTRA WIDE SCSI INTERFACE WITH SCA CONNECTOR

2.1 GB HDU 4.2 GB HDU	IBM DCAS-32160 (Capricorn) IBM DCAS-34330 (Capricorn)	SCSI-2
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MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORDING
DCAS-32160	5400 RPM		2	3	PRML
DCAS-34430	5400 RPM		3	6	PRML

Note 1: These HDUs are equipped with a single 80-pin SCA interface connector (SCSI signals + power supply) instead of having a 68-pin SCSI wide connector and a 4-pin power supply connector. These SCA connectors are 16-bit data interface wide bus connectors (instead of 8-bit) and do not have SCSI terminators.

The 80-pin SCA connector includes the signals for the automatic selection of the SCSI ID, for the drive motor start-up and delay, for drive motor synchronization and for remote LED connection.

Note 2: These HDUs are always fitted on a specific mechanical support by means of which they can be installed in resilience structures. This support prevents access to the jumpers on the drive; the jumpers are factory-set and their setting must not be changed. The jumper settings on the drive will be provided further on.

Note 3: In order for these HDUs to be installed on SNX 1xx/S systems, a specific SCSI adapter needs to be plugged into the SCA connector. This adapter renders the standard 68-pin SCSI wide connector, the 4-pin power supply connector, the SCSI ID selection jumpers and SCSI terminators all accessible to the user.

JUMPERS IN POSITIONS 1, 2, 3 and 4

The SCSI ID jumpers in positions 1, 2, 3 and 4 must not be used (all jumpers in the OFF, not inserted, position) since the same function can also be selected on the SCA connector.

JUMPER - POSITION 7	UNIT ATTENTION FEATURE
OFF *	Disables UAI (Unit Attention Inhibit) control in Mode Page 0
ON	Enables UAI (Unit Attention Inhibit) control in Mode Page 0

JUMPER - POSITION 8	TI-SDTR/WDTR ENABLE
ON	Target Initiated Wide Data Transfer Request Negotiation enable
OFF *	Target Initiated Wide Data Transfer Request Negotiation disabled

JUMPER IN POSITIONS 5, 9 and 10

The jumpers in positions 5, 9 and 10 that determine the drive motor start-up and delay must not be used (jumpers in the OFF, not inserted, position) since the same function can also be selected on the SCA connector where the feature by which the drive motor starts upon reception of a Start command is set.

Note: If the drive is fitted on the SNX 1xx/S, it will be set so that the drive motor starts upon reception of a Start command: jumper in pos. 5 = ON, pos. 9 and 10 don't care.

JUMPER - POSITION 11	PARITY CHECKING ENABLE
ON	Parity checking on the SCSI bus disabled
OFF *	Parity checking on the SCSI bus enabled

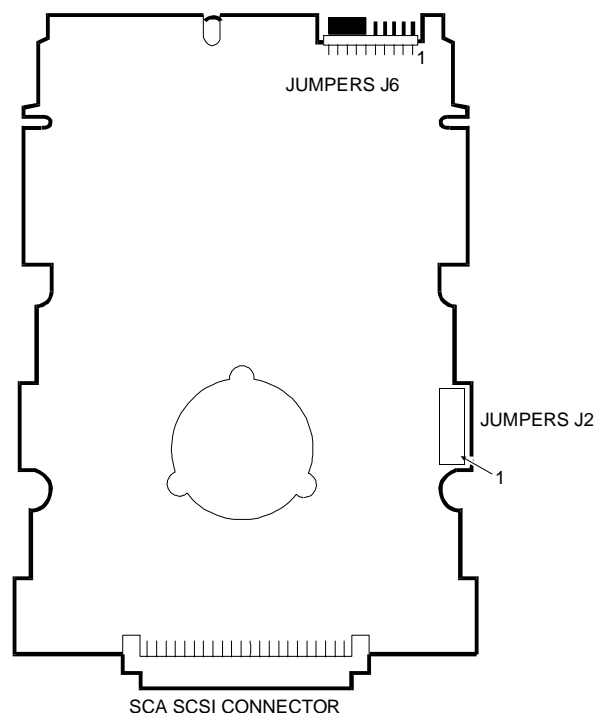
9

JUMPER IN POSITION 12

Pins 1 and 2 (position 12) are for remote LED connection and must not be used (jumper in the OFF, not inserted, position) since this same function can also be selected on the SCA connector.

Note: Pins 13 and 14 (position 6) refer to the internal terminators. There are no terminators on these drives and therefore the jumper setting is insignificant and must be kept in the OFF position.

2.1 GB HDU 4.2 GB HDU 9.1 GB HDU	SEAGATE ST32171WC (Barracuda 4LP) SEAGATE ST34371WC (Barracuda 4LP) SEAGATE ST19171WC (Barracuda 9)	SCSI-3
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MODEL	ROTATION	CYLINDERS	DISKS	HEADS	RECORDING
ST32171WC	7200 RPM	5167	5	20	RLL 1.7
ST34371WC	7200 RPM	5167	10		RLL 1.7
ST19171WC	7200 RPM	5273	10		RLL 1.7

Note 1: These HDUs are equipped with a single 80-pin SCA interface connector (SCSI signals + power supply) instead of having a 68-pin SCSI wide connector and a 4-pin power supply connector. These SCA connectors are 16-bit data interface wide bus connectors (instead of 8-bit) and do not have SCSI terminators.

The 80-pin SCA connector includes the signals for the automatic selection of the SCSI ID, for the drive motor start-up and delay, for drive motor synchronization and for remote LED connection.

Note 2: These HDUs are always fitted on a specific mechanical support by means of which they can be installed in resilience structures. This support prevents access to the jumpers on the drive; the jumpers are factory-set and their setting must not be changed. The jumper settings on the drive will be provided further on.

Note 3: The 9 GB ST19171WC HDU can be installed in Rack cabinet BUs only in areas with a temperature of $\leq 25^{\circ}\text{C}$.

