
IDE Jumper Settings and Locations



IDE DEFINITIONS

Master/Slave Relationship. A master/slave relationship exists when there are two hard drives connected to a single port. In this situation, one drive must be designated as the master, or primary, drive and the other as the slave, or secondary, drive. This designation is necessary because both drives cannot work simultaneously.

Delay Spin. The Delay Spin method is used when a system has multiple drives. Delay Spin reduces high-power surge levels when the computer is started.

Conner Mode. Compaq Computer Corporation has used IDE hard drives that conform to two different master/slave implementations: Conner mode and ATA compatible mode. These two modes are incompatible with one another; therefore, Compaq recommends that both drives, master and slave, must be either ATA compatible or Conner mode for reliable operation.

ATA Mode. ATA mode is a standard that most hard drives are now supporting. Conner mode master/slave was implemented prior to the ATA standard. All current production Compaq IDE drives conform to the ATA master/slave implementation. Some IDE drives supplied by Compaq are jumper-configurable for either Conner or ATA master-slave mode. ATA compatible drives use the DASP- signal to determine that a slave is present, and the PDIAG- signal to indicate the slave is ready. Some ATA compatible drives provide a jumper option to tell the master that a slave is present, and to ignore the DASP- and PDIAG- signals. These cases are documented as (master with non-ATA compatible slave present).

IDE Jumper Settings and Locations

CABLE-SELECT TECHNOLOGY

Some computers use cable-select technology for identifying IDE hard drive device 0 (master) and device 1 (slave), depending on where they are connected on the cable-select cable. The configuration jumpers on both hard drives are set the same. The jumpers are preset for cable-select installation.

Cable-select comparable hard drives and IDE cables are backward compatible with computers that do not support cable select. When a cable-select hard drive is used in a non-cable select computer, the drive jumpers must be reconfigured.

SOFT DRIVE TYPE

Some computers support an automatic soft-drive type mechanism where the system ROM and Computer Setup provide support for IDE hard drives that are not supported in the hard drive parameter table. Computer Setup will automatically build a soft-drive type when it finds that a hard drive is not in the hard drive parameter table. You can also change or add a soft-drive type with Computer Setup.

The hard drive parameter information is stored in NV-RAM. The system ROM's POST copies the hard drive parameters into the hard drive parameter table in the shadow RAM copy of the system ROM. After POST, the soft-drive type appears as a hard drive type. The soft-drive types are assigned to hard drive types as shown in the following table.

SOFT-DRIVE TYPE ASSIGNMENTS

Controller	Drive	Hard Drive Type
Primary	0	65
Primary	1	66
Secondary	0	68
Secondary	1	15

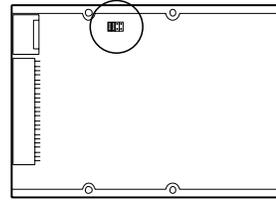
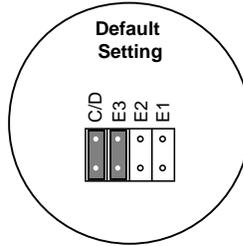
For hard drives larger than 528 MB, the system automatically translates the hard drive parameters for MS-DOS by logically halving the number of cylinders and doubling the number of heads. This allows MS-DOS to access hard drives larger than 528 MB. If you are using an operating system other than MS-DOS, you must use the Compaq Diagnostics Diskette to set up the hard drive parameter without translation.

IDE Jumper Settings and Locations

Drive Size: 340 MB

Model: CP3361

Conner Drive
Assembly Number 123785



IDE Settings

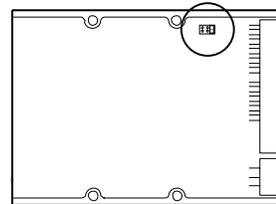
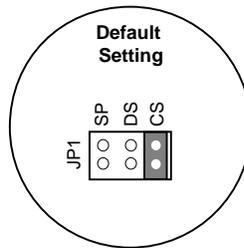
Configuration	E1	E2	E3	C/D
Drive is Device 0 to non-ATA compatible drive	○	○	■	■
Drive is Device 1 to non-ATA compatible drive	○	○	■	○
Delayed spin option for IDA	■	○	■	■

Key ○ Jumper NOT Installed
 ■ Jumper Installed

Drive Size: 420 MB

Model: Trailblazer

Quantum Drive
Assembly Number 214122



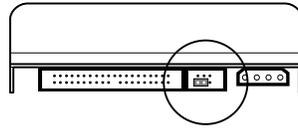
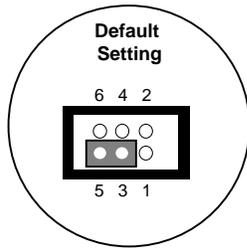
Jumper Setting
for Cable Select

Key ○ Jumper NOT Installed
 ■ Jumper Installed

IDE Jumper Settings and Locations

Drive Size: 420 MB **Model: WDC AC2420H**

Western Digital Drive
Assembly Number 189588



Jumper Setting
for Cable Select

IDE Settings

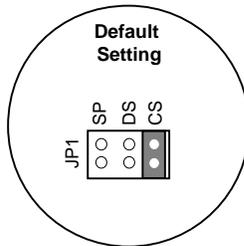
Configuration	1-2	3-4	5-6
Single drive configuration	○	○	○
Device 0 configuration	○	○	■
Device 1 configuration	○	■	○
Cable select configuration	■	○	○
Spare Jumper	○	■	■

Key ○ Jumper NOT Installed
 ■ Jumper Installed

IDE Jumper Settings and Locations

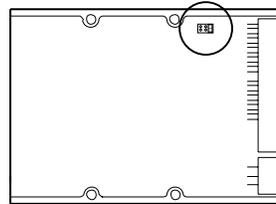
Drive Size: 540 MB Model: Fireball

Quantum Drive
Assembly Number 200346



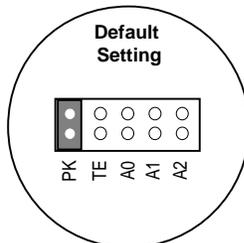
Jumper Setting
for Cable Select

Key ○ Jumper NOT Installed
● Jumper Installed



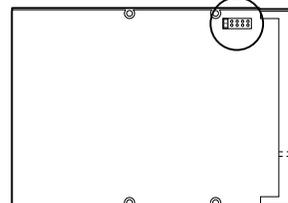
Drive Size: 540 MB Model: FIREBALL 540

Quantum Drive
Assembly Number 200346



Jumper Setting
for Cable Select

Key ○ Jumper NOT Installed
● Jumper Installed



SCSI ID Settings

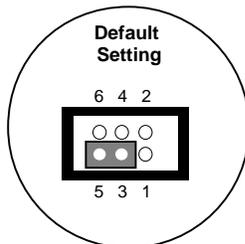
Description	A0	A1	A2	TE	PK
SCSI Address 0	●	○	○	○	○
SCSI Address 1	○	●	○	○	○
SCSI Address 2	○	○	●	○	○
Enable Active Termination	○	○	○	●	○
No Function	○	○	○	○	●

IDE Jumper Settings and Locations

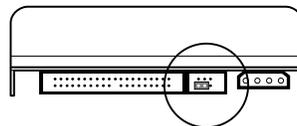
Drive Size: **630 MB**

Model: **STURGEON 2**

Western Digital Drive
Assembly Number 214121



Jumper Setting
for Cable Select



IDE Settings

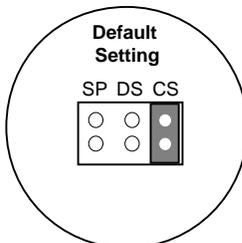
Configuration	1-2	3-4	5-6
Single drive configuration	○	○	○
Device 0 configuration	○	○	■
Device 1 configuration	○	■	○
Cable select configuration	■	○	○
Spare Jumper	○	○	■

Key ○ Jumper NOT Installed
 ■ Jumper Installed

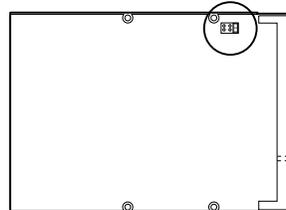
Drive Size: **630 MB**

Model: **FIREBALL 2**

Quantum Drive
Assembly Number 185049



Jumper Setting
for Cable Select

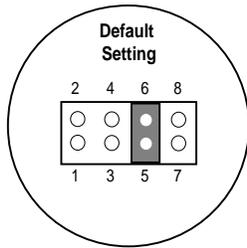


Key ○ Jumper NOT Installed
 ■ Jumper Installed

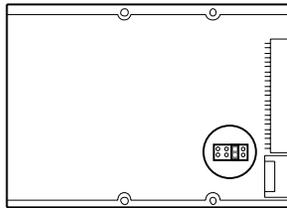
IDE Jumper Settings and Locations

Drive Size: 630 MB **Model: ST3630A**

Seagate Drive
Assembly Number 185352



Jumper Setting
for Cable Select



IDE Settings

Configuration	1-2	3-4	5-6	7-8
Drive is Device 0; Device 1 is another ATA compatible drive or no Device 1 is present	○	○	○	○
The drive is Device 1 to an ATA-compatible Device 0	○	○	○	●
Drive is Device 0; Device 1 is present, but it is not ATA-compatible	○	○	●	○
Cable Select	○	●	○	○
Drive is Device 0; Device 1 is present, but it is not ATA-compatible	●	○	○	○

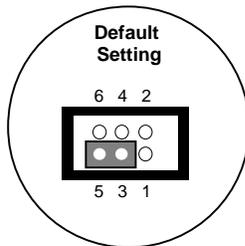
Key ○ Jumper NOT Installed
 ● Jumper Installed

IDE Jumper Settings and Locations

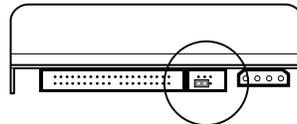
Drive Size: 720 MB

Model: STURGEON 2

Western Digital Drive
Assembly Number 214313



Jumper Setting
for Cable Select



IDE Settings

Configuration	1-2	3-4	5-6
Single drive configuration	○	○	○
Device 0 configuration	○	○	■
Device 1 configuration	○	■	○
Cable select configuration	■	○	○
Spare Jumper	○	○	■

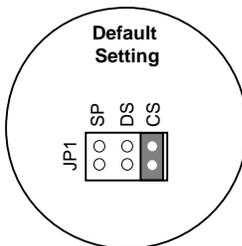
Key ○ Jumper NOT Installed

■ Jumper Installed

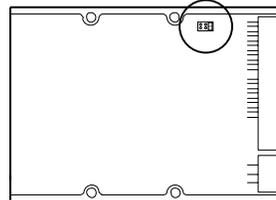
Drive Size: 840 MB

Model: Trailblazer

Quantum Drive
Assembly Number 214124



Jumper Setting
for Cable Select



Key ○ Jumper NOT Installed

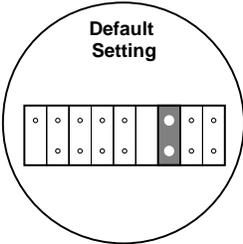
■ Jumper Installed

IDE Jumper Settings and Locations

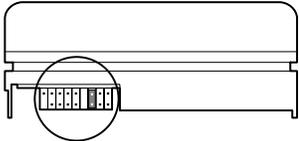
Drive Size: 840 MB

Model:

Conner Drive
Assembly Number 213932



Jumper Setting
for Cable Select

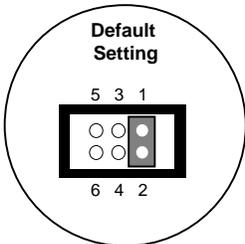


Key ○ Jumper NOT Installed
● Jumper Installed

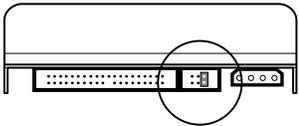
Drive Size: 840 MB

Model: STURGEON II

Western Digital Drive
Assembly Number 214120



Jumper Setting
for Cable Select



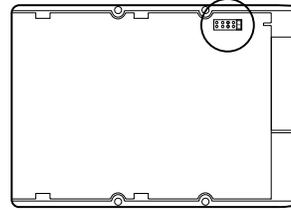
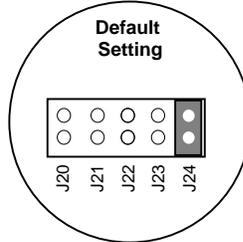
Key ○ Jumper NOT Installed
● Jumper Installed

IDE Jumper Settings and Locations

Drive Size: 1.0 GB

Model: 71084AP

Maxtor Drive
Assembly Number 214077



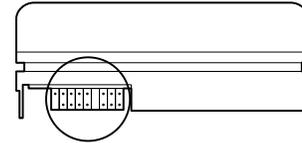
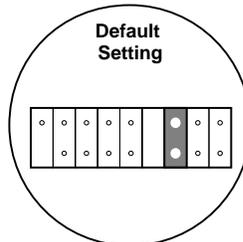
Jumper Setting
for Cable Select

Key Jumper NOT Installed
 Jumper Installed

Drive Size: 1.05 GB

Model: CFS1060A

Conner Drive
Assembly Number 213935



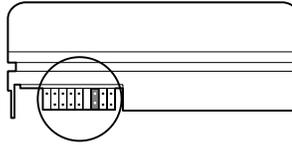
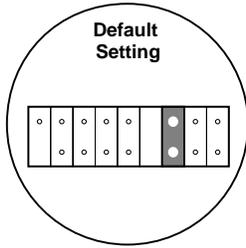
Jumper Settings
for Cable Select

Key Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

Drive Size: 1.05 GB Model: CFS1060A

Conner Drive
Assembly Number 247414

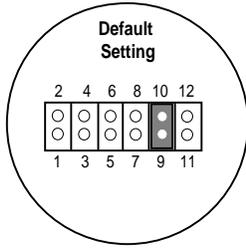


Jumper Setting
for Cable Select

Key ○ Jumper NOT Installed
● Jumper Installed

Drive Size: 1.08 GB Model: ST51080A

Seagate Drive
Assembly Number 173206



Jumper Setting
for Cable Select

IDE Settings

Configuration	1-2	3-4	5-6	7-8	9-10	11-12
Drive is single drive, Device 0	○	○	○	○	○	○
Drive is Device 1, Device 0 is present	●	●	○	○	○	○
Drive is Device 0, Device 1 is present	○	●	●	○	○	○
Cable Select	○	○	○	○	○	○

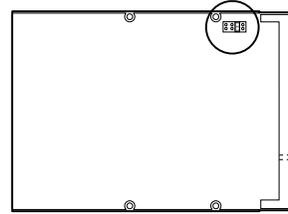
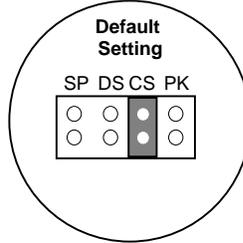
Key ○ Jumper NOT Installed
● Jumper Installed

IDE Jumper Settings and Locations

Drive Size: **1080 MB**

Model: **TEMPEST**

Quantum Drive
Assembly Number 243040



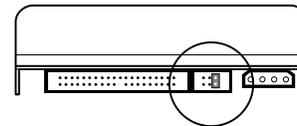
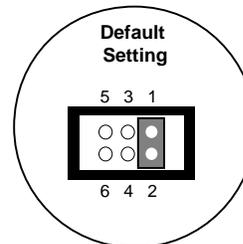
Jumper Setting
for Cable Select

Key  Jumper NOT Installed
 Jumper Installed

Drive Size: **1080 MB**

Model: **STURGEON II**

Western Digital Drive
Assembly Number 243041



Jumper Setting
for Cable Select

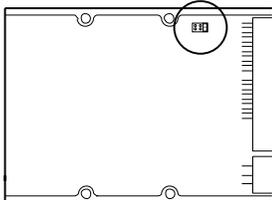
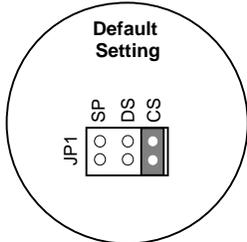
Key  Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

Drive Size: 1.08 GB

Model: Fireball

Quantum Drive
Assembly Number 214123



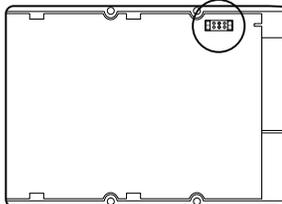
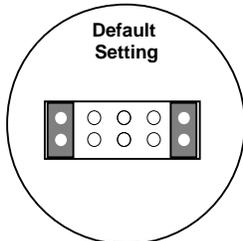
Jumper Setting
for Cable Select

Key ○ Jumper NOT Installed
● Jumper Installed

Drive Size: 1.08 GB

Model: 71080AP

Maxtor Drive
Assembly Number 247414



Jumper Setting
for Cable Select

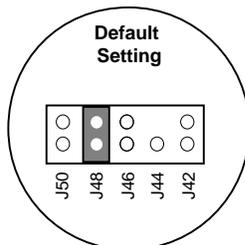
Key ○ Jumper NOT Installed
● Jumper Installed

IDE Jumper Settings and Locations

Drive Size: 1080 MB

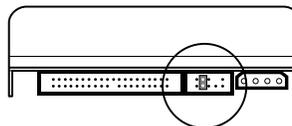
Model: GEN 8

Maxtor Drive
Assembly Number 295992



Jumper Setting
for Cable Select

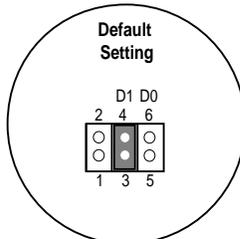
Key ○ Jumper NOT Installed
● Jumper Installed



Drive Size: 1080 MB

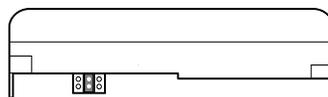
Model: LAPAZ

Segate Drive
Assembly Number 177257



Jumper Setting
for Cable Select

Key ○ Jumper NOT Installed
● Jumper Installed



IDE Settings

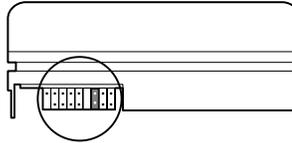
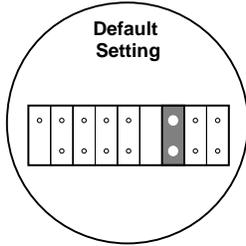
Configuration	3-4	5-6
Slave	○	○
Master	○	●
Cable Select	●	○
Master w/forced Slave present	○	●

IDE Jumper Settings and Locations

Drive Size: 1.2 GB

Model: Cabo

Conner Drive
Assembly Number 214159



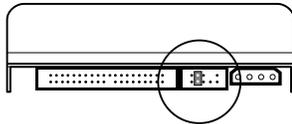
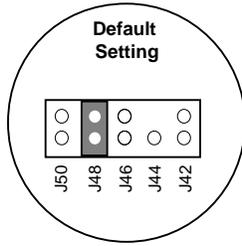
Jumper Setting
for Cable Select

Key ○ Jumper NOT Installed
● Jumper Installed

Drive Size: 1.2 GB

Model: GEN 8

Maxtor Drive
Assembly Number 244670



Jumper Setting
for Cable Select

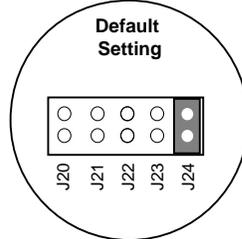
Key ○ Jumper NOT Installed
● Jumper Installed

IDE Jumper Settings and Locations

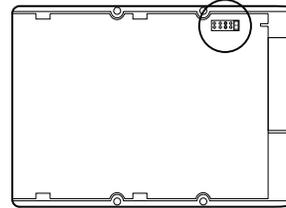
Drive Size: 1.2 GB

Model: 71280AP

Maxtor Drive
Assembly Number 237833



Jumper Setting
for Cable Select

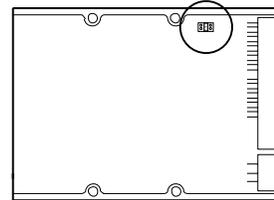
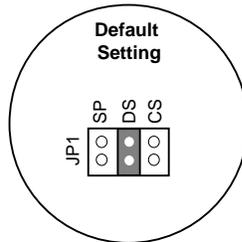


Key ○ Jumper NOT Installed
● Jumper Installed

Drive Size: 1.2 GB

Model: VORTEX

Quantum Drive
Assembly Number 235313



IDE Settings

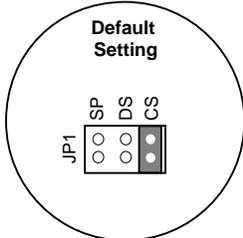
Configuration	CS	DS	SP
Slave Drive (using PDIAG)	○	○	○
Slave Drive (PDIAG and DASP not driven)	○	○	●
Master Drive (uses DASP)	○	●	○
Master Drive (uses SP jumper)	○	○	●
Cable Select	●	○	○

Key ○ Jumper NOT Installed
● Jumper Installed

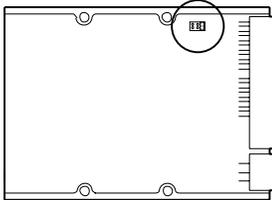
IDE Jumper Settings and Locations

Drive Size: 1.2 GB Model: Fireball 2

Quantum Drive
Assembly Number 185050



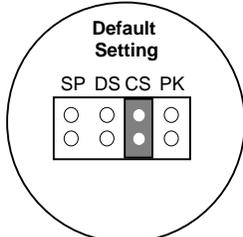
Jumper Setting for Cable Select



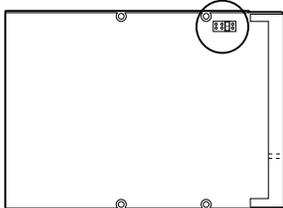
Key ○ Jumper NOT Installed
● Jumper Installed

Drive Size: 1.2 GB Model: TEMPEST

Quantum Drive
Assembly Number 238275



Jumper Setting for Cable Select



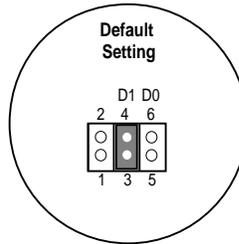
Key ○ Jumper NOT Installed
● Jumper Installed

IDE Jumper Settings and Locations

Drive Size: 1.2 GB

Model: LAPAZ

Segate Drive
Assembly Number 243038



Jumper Setting
for Cable Select



IDE Settings

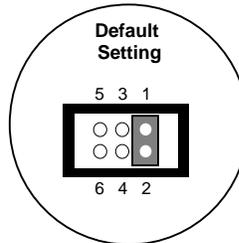
Configuration	3-4	5-6
Slave	○	○
Master	○	■
Cable Select	■	○
Master w/forced Slave present	○	■

Key ○ Jumper NOT Installed
 ■ Jumper Installed

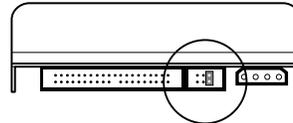
Drive Size: 1.2 GB

Model: BANDIT

Western Digital Drive
Assembly Number 237834



Jumper Setting
for Cable Select

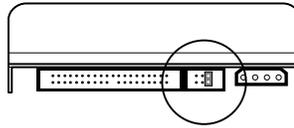
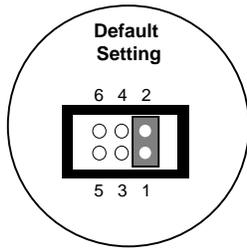


Key ○ Jumper NOT Installed
 ■ Jumper Installed

IDE Jumper Settings and Locations

Drive Size: 1.6 GB **Model: AC31600**

Western Digital Drive
Assembly Number 213988

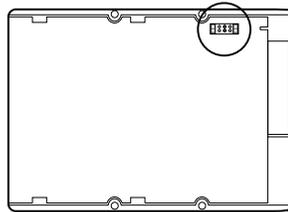
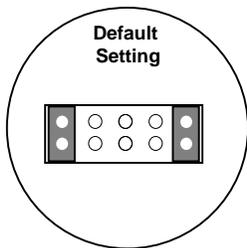


Jumper Setting
for Cable Select

Key ○ Jumper NOT Installed
● Jumper Installed

Drive Size: 1.6 GB **Model: 71626AV**

Maxtor Drive
Assembly Number 214022



Jumper Setting
for Cable Select

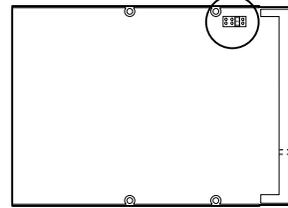
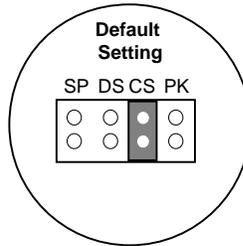
Key ○ Jumper NOT Installed
● Jumper Installed

IDE Jumper Settings and Locations

Drive Size: **1600 MB**

Model: **TEMPEST**

Quantum Drive
Assembly Number 247421



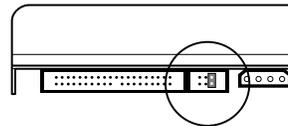
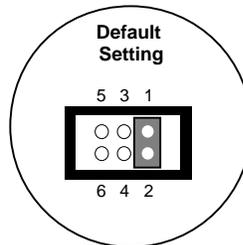
Jumper Setting
for Cable Select

Key  Jumper NOT Installed
 Jumper Installed

Drive Size: **1600 MB**

Model: **AC21600**

Western Digital Drive
Assembly Number 247576



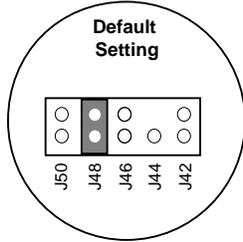
Jumper Setting
for Cable Select

Key  Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

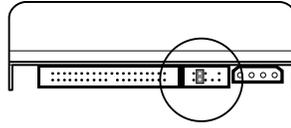
Drive Size: 1600 MB Model: GEN 8

Maxtor Drive
Assembly Number 244656



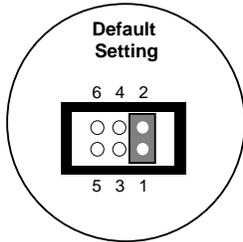
Jumper Setting
for Cable Select

Key Jumper NOT Installed
 Jumper Installed



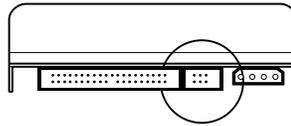
Drive Size: 1.62 GB Model: AC31600

Western Digital Drive
Assembly Number 247489



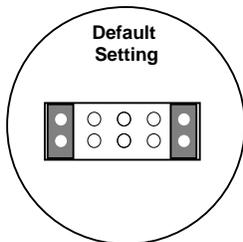
Jumper Settings
for Cable Select

Key Jumper NOT Installed
 Jumper Installed



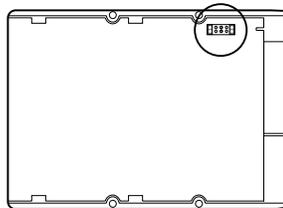
Drive Size: 1.62 GB Model: 71620AP

Maxtor Drive
Assembly Number 247415



Jumper Settings
for Cable Select

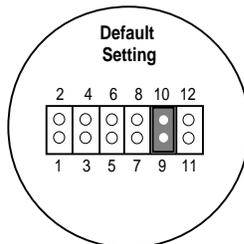
Key Jumper NOT Installed
 Jumper Installed



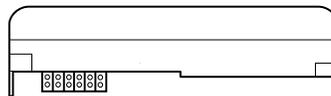
IDE Jumper Settings and Locations

Drive Size: 2.0 GB Model: ST32430N

Segate Drive
Assembly Number 200347



Jumper Settings
for Cable Select



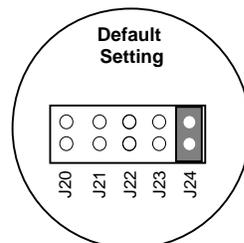
IDE Settings

Configuration	1-2	3-4	5-6	7-8	9-10	11-12
Drive is single drive, Device 0	○	○	○	○	○	○
Drive is Device 1, Device 0 is present	■	○	○	○	○	○
Drive is Device 0, Device 1 is present	○	■	○	○	○	○
Cable Select	○	○	○	○	■	○

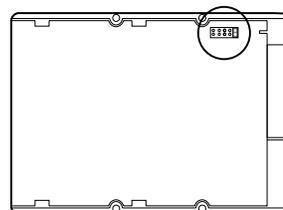
Key ○ Jumper NOT Installed
 ■ Jumper Installed

Drive Size: 2.0 GB Model: 72010AP

Maxtor Drive
Assembly Number 243039



Jumper Setting
for Cable Select

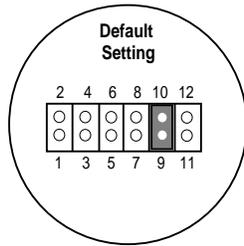


Key ○ Jumper NOT Installed
 ■ Jumper Installed

IDE Jumper Settings and Locations

Drive Size: 2.0 GB **Model: ST32140A**

Seagate Drive
Assembly Number 213989



Default Setting
Jumper Settings for Cable Select



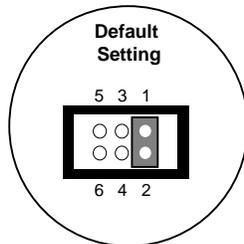
IDE Settings

Configuration	1-2	3-4	5-6	7-8	9-10	11-12
Drive Master	○	○	○	○	○	○
Drive is slave to an ATA compatible	●	○	○	○	○	○
Drive Master, , an ATA compatible slave present	○	●	○	○	○	○
Cable Select	○	○	○	○	●	○

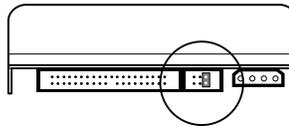
Key ○ Jumper NOT Installed
● Jumper Installed

Drive Size: 2.5 GB **Model: C11**

Western Digital Drive
Assembly Number 247586



Default Setting
Jumper Setting for Cable Select



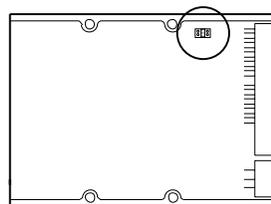
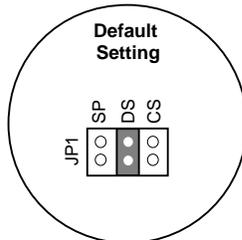
Key ○ Jumper NOT Installed
● Jumper Installed

IDE Jumper Settings and Locations

Drive Size: 2.5 GB

Model: VORTEX

Quantum Drive
Assembly Number 235314



IDE Settings

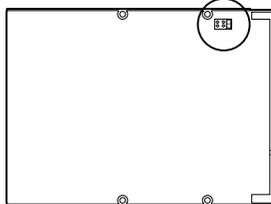
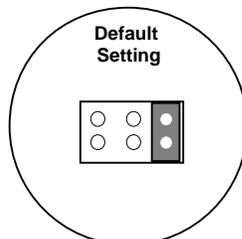
Configuration	CS	DS	SP
Slave Drive (using PDIAG)	○	○	○
Slave Drive (PDIAG and DASP not driven)	○	○	■
Master Drive (uses DASP)	○	■	○
Master Drive (uses SP jumper)	○	■	■
Cable Select	■	○	○

Key ○ Jumper NOT Installed
 ■ Jumper Installed

Drive Size: 2.5 GB

Model: SIROCCO

Quantum Drive
Assembly Number 237745



Jumper Settings
for Cable Select

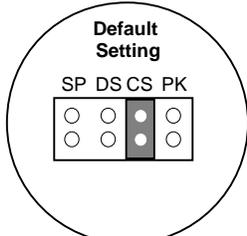
Key ○ Jumper NOT Installed
 ■ Jumper Installed

IDE Jumper Settings and Locations

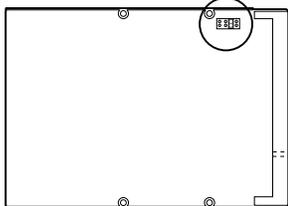
Drive Size: 2550 MB

Model: TEMPEST

Quantum Drive
Assembly Number 247422



Jumper Setting
for Cable Select

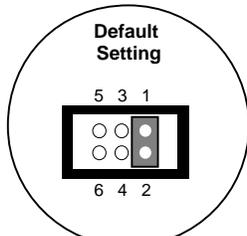


Key ○ Jumper NOT Installed
● Jumper Installed

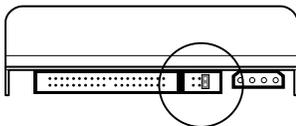
Drive Size: 2550 MB

Model: AC32500

Western Digital Drive
Assembly Number 247577



Jumper Setting
for Cable Select



Key ○ Jumper NOT Installed
● Jumper Installed

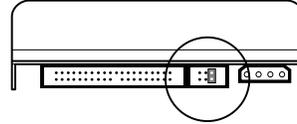
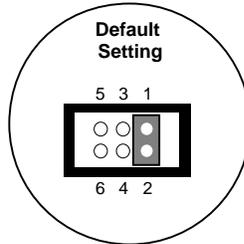
IDE Jumper Settings and Locations

Drive Size: 2550 MB

Model:

C12

Western Digital Drive
Assembly Number 247587



Jumper Setting
for Cable Select

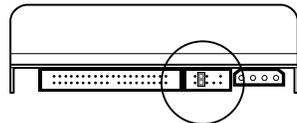
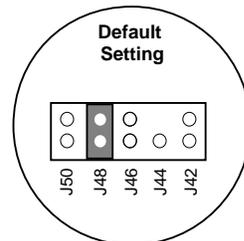
Key ○ Jumper NOT Installed
● Jumper Installed

Drive Size: 2550 MB

Model:

GEN 8

Maxtor Drive
Assembly Number 244658



Jumper Setting
for Cable Select

Key ○ Jumper NOT Installed
● Jumper Installed