

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

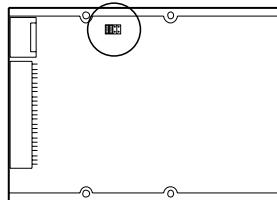
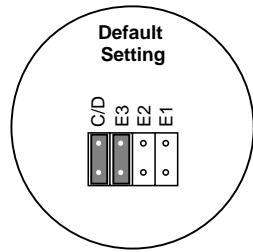
Controller	Drive	Hard Drive Type
Primary	0	65
Primary	1	66
Secondary	0	68
Secondary	1	15

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



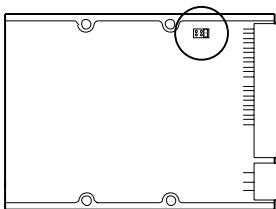
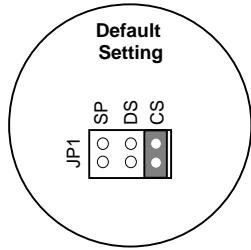
IDE Settings

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



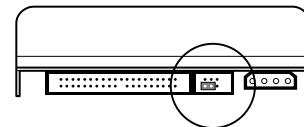
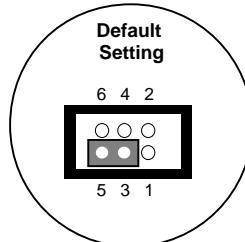
Jumper Setting
for Cable Select

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

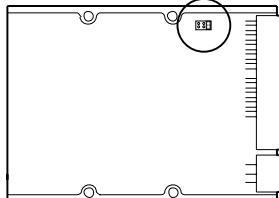
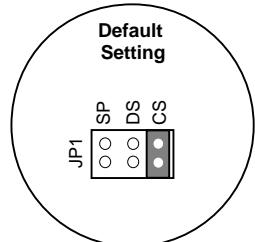
Configuration	1-2	3-4	5-6
Single drive configuration	○	○	○
Device 0 configuration	○	○	■
Device 1 configuration	○	■	○
Cable select configuration	■	○	○
Spare Jumper	○	■	■

Key ○ Jumper NOT Installed
■ Jumper Installed

IDE Jumper Settings and Locations

Drive Size: **540 MB** Model: **Fireball**

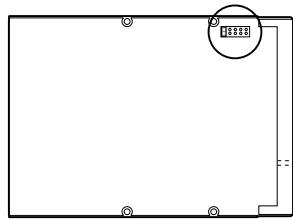
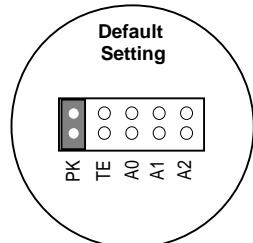
Quantum Drive
Assembly Number 200346



Key Jumper NOT Installed
 Jumper Installed

Drive Size: **540 MB** Model: **FIREBALL 540**

Quantum Drive
Assembly Number 200346



SCSI ID Settings

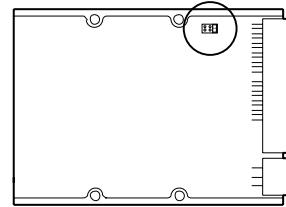
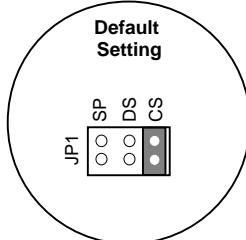
Description	A0	A1	A2	TE	PK
SCSI Address 0					
SCSI Address 1					
SCSI Address 2					
Enable Active Termination					
No Function					

Key Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

Drive Size: **630 MB** Model: **Trailblazer**

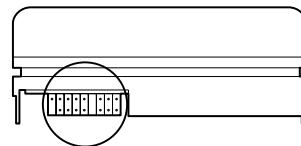
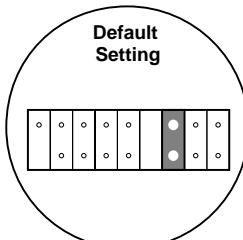
Quantum Drive
Assembly Number 214125



Key Jumper NOT Installed
 Jumper Installed

Drive Size: **630 MB** Model:

Conner Drive
Assembly Number 213933

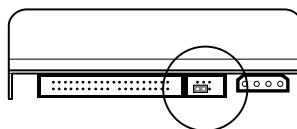
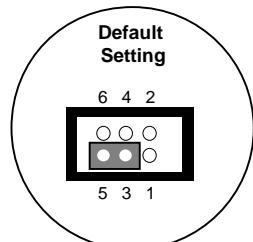


Key Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

Drive Size: **630 MB** Model: **STURGEON 2**

Western Digital Drive
Assembly Number 214121

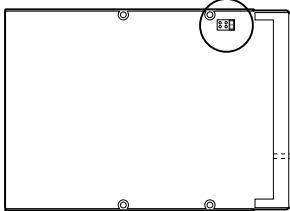
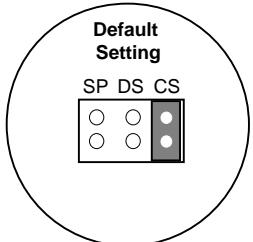


Configuration	IDE Settings		
	1-2	3-4	5-6
Single drive configuration	○	○	○
Device 0 configuration	○	○	■
Device 1 configuration	○	■	○
Cable select configuration	■	○	○
Spare Jumper	○	■	■

Key Jumper NOT Installed
 Jumper Installed

Drive Size: **630 MB** Model: **FIREBALL 2**

Quantum Drive
Assembly Number 185049

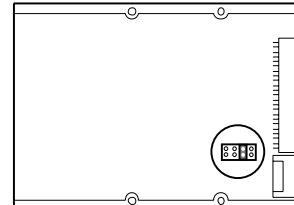
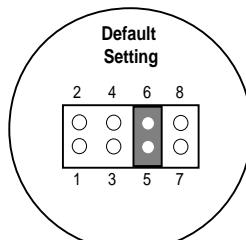


Key Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

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

Segate Drive
Assembly Number 185352



IDE Settings

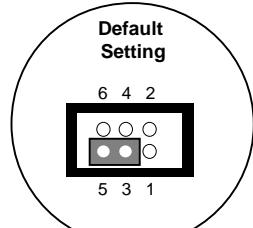
Configuration	1-2	3-4	5-6	7-8
Drive is Device 0; Device 1 is another ATA compatible drive or no Device 1 is present	○	○	○	○
The drive is Device 1 to an ATA-compatible Device 0	○	○	○	■
Drive is Device 0; Device 1 is present, but it is not ATA-compatible	○	○	■	○
Cable Select	○	■	○	○
Drive is Device 0;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

Key Jumper NOT Installed
 Jumper Installed

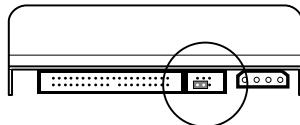
IDE Jumper Settings and Locations

Drive Size: **720 MB** Model: **STURGEON 2**

Western Digital Drive
Assembly Number 214313



Jumper Setting
for Cable Select



IDE Settings

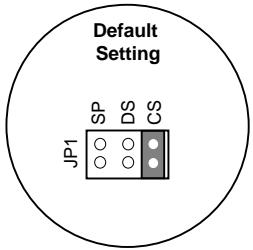
Configuration	1-2	3-4	5-6
Single drive configuration	○	○	○
Device 0 configuration	○	○	■
Device 1 configuration	○	■	○
Cable select configuration	■	■	○
Spare Jumper	○	■	■

Key ○ Jumper NOT Installed

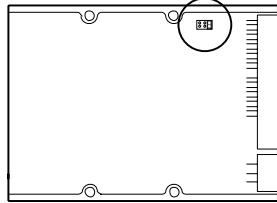
■ Jumper Installed

Drive Size: **840 MB** Model: **Trailblazer**

Quantum Drive
Assembly Number 214124



Jumper Setting
for Cable Select



Key ○ Jumper NOT Installed

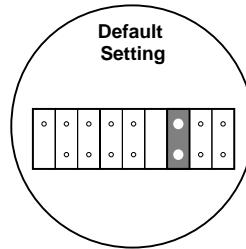
■ Jumper Installed

IDE Jumper Settings and Locations

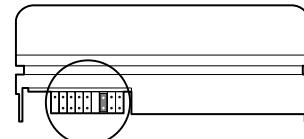
Drive Size: **840 MB**

Model:

Conner Drive
Assembly Number 213932



Jumper Setting
for Cable Select

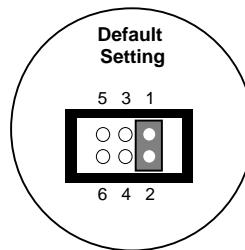


Key: Jumper NOT Installed
 Jumper Installed

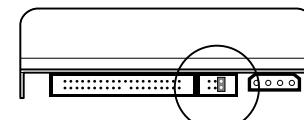
Drive Size: **840 MB**

Model: **STURGEON II**

Western Digital Drive
Assembly Number 214120



Jumper Setting
for Cable Select

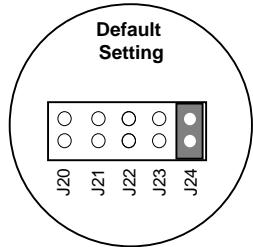


Key: Jumper NOT Installed
 Jumper Installed

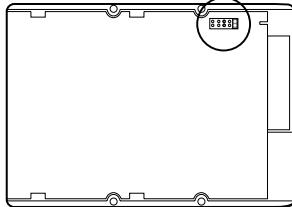
IDE Jumper Settings and Locations

Drive Size: **1.0 GB** Model: **71084AP**

Maxtor Drive
Assembly Number 214077



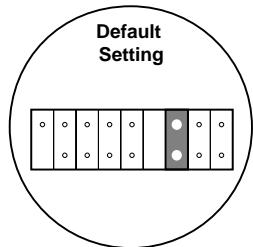
Jumper Setting
for Cable Select



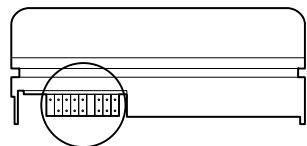
Key Jumper NOT Installed
 Jumper Installed

Drive Size: **1.05 GB** Model: **CFS1060A**

Conner Drive
Assembly Number 213935



Jumper Settings
for Cable Select

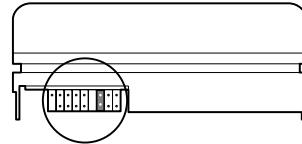
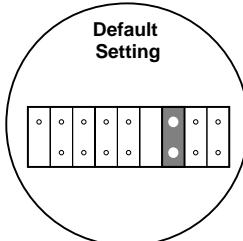


Key Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

Drive Size: **1.05 GB** Model: **CFS1060A**

Conner Drive
Assembly Number 247414

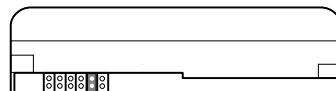
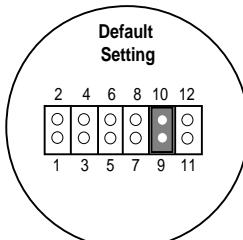


Jumper Setting
for Cable Select

Key Jumper NOT Installed
 Jumper Installed

Drive Size: **1.08 GB** Model: **ST51080A**

Segate Drive
Assembly Number 173206



Jumper Setting
for Cable Select

IDE Settings

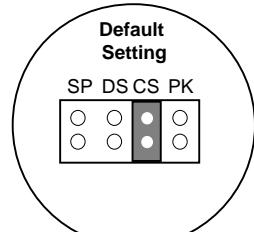
Configuration	1-2	3-4	5-6	7-8	9-10	11-12
Drive is single drive, Device 0						
Drive is Device 1, Device 0 is present						
Drive is Device 0, Device 1 is present						
Cable Select						

Key Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

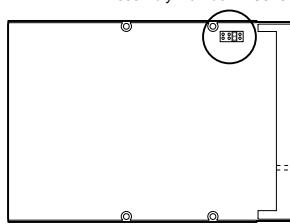
Drive Size: **1080 MB** Model: **TEMPEST**

Quantum Drive
Assembly Number 243040



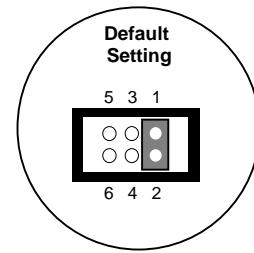
Jumper Setting
for Cable Select

Key Jumper NOT Installed
 Jumper Installed



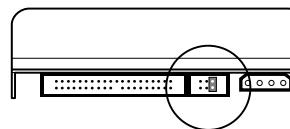
Drive Size: **1080 MB** Model: **STURGEON II**

Western Digital Drive
Assembly Number 243041



Jumper Setting
for Cable Select

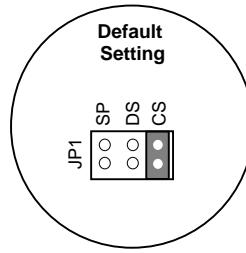
Key Jumper NOT Installed
 Jumper Installed



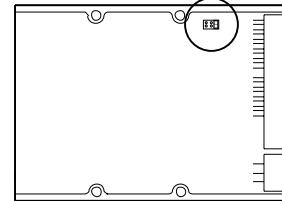
IDE Jumper Settings and Locations

Drive Size: **1.08 GB** Model: **Fireball**

Quantum Drive
Assembly Number 214123



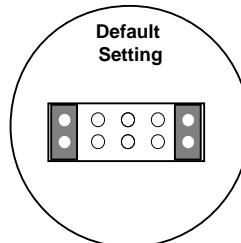
Jumper Setting
for Cable Select



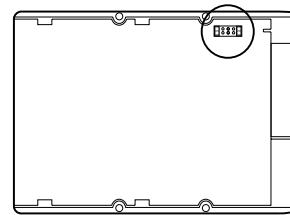
Key Jumper NOT Installed
 Jumper Installed

Drive Size: **1.08 GB** Model: **71080AP**

Maxtor Drive
Assembly Number 247414



Jumper Setting
for Cable Select

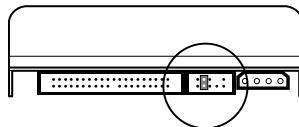
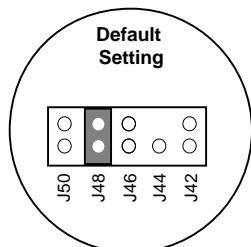


Key Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

Drive Size: 1080 MB **Model: GEN 8**

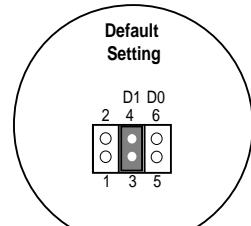
Maxtor Drive
Assembly Number 295992



Key Jumper NOT Installed
 Jumper Installed

Drive Size: 1080 MB **Model: LAPAZ**

Segate Drive
Assembly Number 177257



IDE Settings

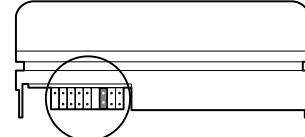
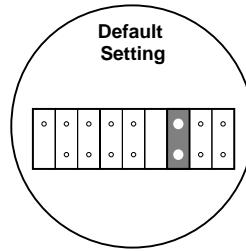
Configuration	3-4	5-6
Slave		
Master		
Cable Select		
Master w/forced Slave present		

Key Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

Drive Size: **1.2 GB** Model: **Cabo**

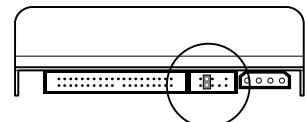
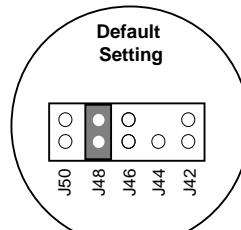
Conner Drive
Assembly Number 214159



Key: Jumper NOT Installed
 Jumper Installed

Drive Size: **1.2 GB** Model: **GEN 8**

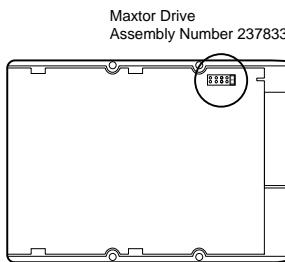
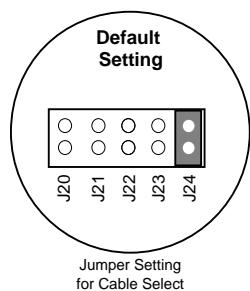
Maxtor Drive
Assembly Number 244670



Key: Jumper NOT Installed
 Jumper Installed

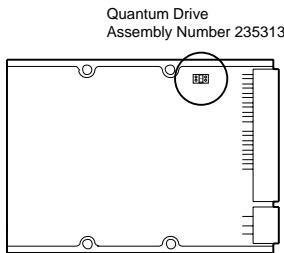
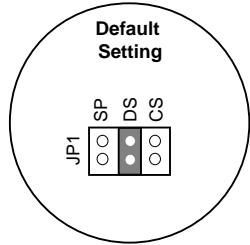
IDE Jumper Settings and Locations

Drive Size: **1.2 GB** Model: **71280AP**



Key Jumper NOT Installed
 Jumper Installed

Drive Size: **1.2 GB** Model: **VORTEX**

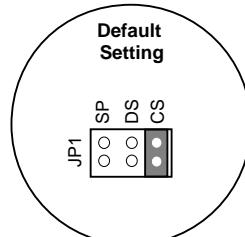


Key Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

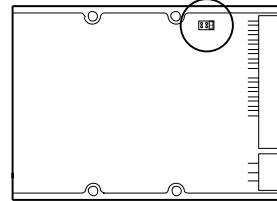
Drive Size: **1.2 GB** Model: **Fireball 2**

Quantum Drive
Assembly Number 185050



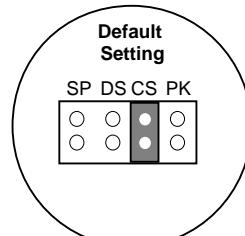
Jumper Setting
for Cable Select

Key Jumper NOT Installed
 Jumper Installed



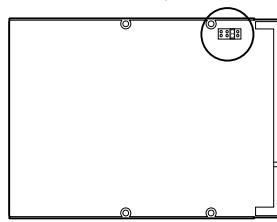
Drive Size: **1.2 GB** Model: **TEMPEST**

Quantum Drive
Assembly Number 238275



Jumper Setting
for Cable Select

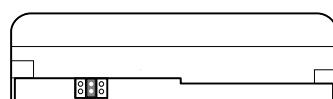
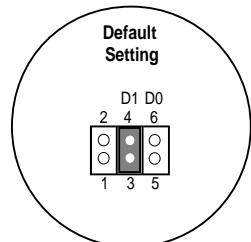
Key Jumper NOT Installed
 Jumper Installed



IDE Jumper Settings and Locations

Drive Size: **1.2 GB** Model: **LAPAZ**

Segate Drive
Assembly Number 243038



Jumper Setting
for Cable Select

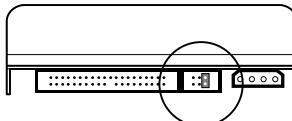
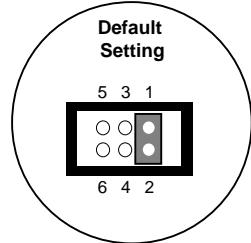
IDE Settings

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

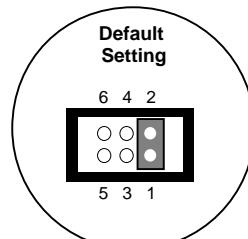


Jumper Setting
for Cable Select

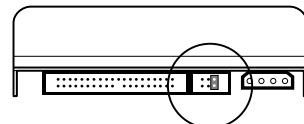
Key Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

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



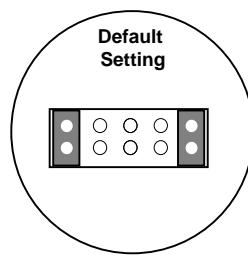
Western Digital Drive
Assembly Number 213988



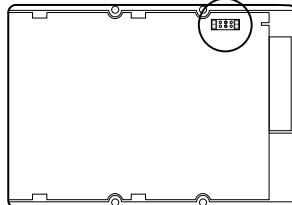
Jumper Setting
for Cable Select

Key Jumper NOT Installed
 Jumper Installed

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



Maxtor Drive
Assembly Number 214022



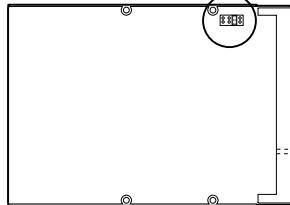
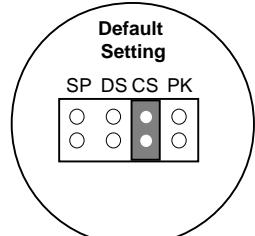
Jumper Setting
for Cable Select

Key Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

Drive Size: **1600 MB** Model: **TEMPEST**

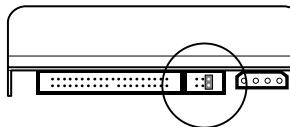
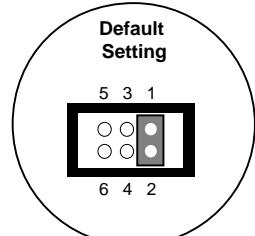
Quantum Drive
Assembly Number 247421



Key Jumper NOT Installed
 Jumper Installed

Drive Size: **1600 MB** Model: **AC21600**

Western Digital Drive
Assembly Number 247576

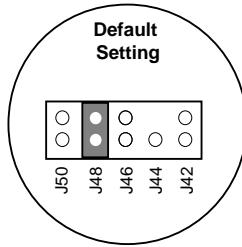


Key Jumper NOT Installed
 Jumper Installed

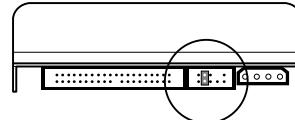
IDE Jumper Settings and Locations

Drive Size: 1600 MB **Model: GEN 8**

Maxtor Drive
Assembly Number 244656



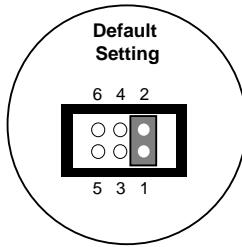
Jumper Setting
for Cable Select



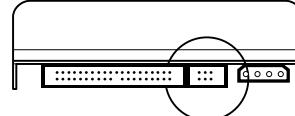
Key Jumper NOT Installed
 Jumper Installed

Drive Size: 1.62 GB **Model: AC31600**

Western Digital Drive
Assembly Number 247489



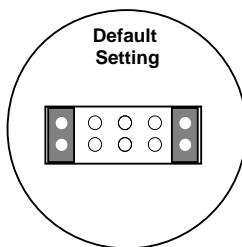
Jumper Settings
for Cable Select



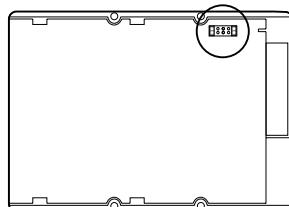
Key Jumper NOT Installed
 Jumper Installed

Drive Size: 1.62 GB **Model: 71620AP**

Maxtor Drive
Assembly Number 247415



Jumper Settings
for Cable Select

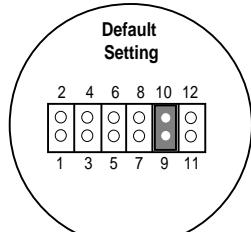


Key Jumper NOT Installed
 Jumper Installed

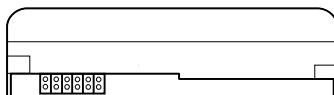
IDE Jumper Settings and Locations

Drive Size: **2.0 GB** Model: **ST32430N**

Segate Drive
Assembly Number 200347



Jumper Settings
for Cable Select



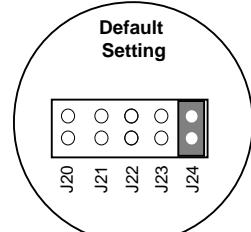
IDE Settings

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	○	○	○	○	●	○

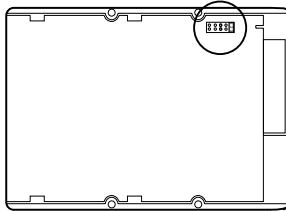
Key Jumper NOT Installed
 Jumper Installed

Drive Size: **2.0 GB** Model: **72010AP**

Maxtor Drive
Assembly Number 243039



Jumper Setting
for Cable Select

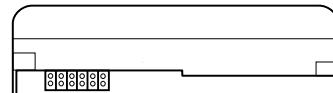
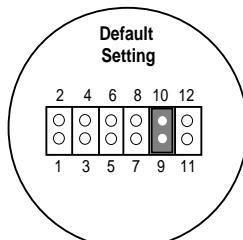


Key Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

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

Segate Drive
Assembly Number 213989



Jumper Settings
for Cable Select

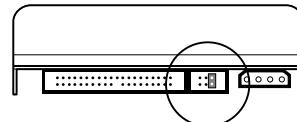
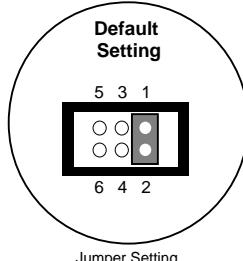
IDE Settings

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



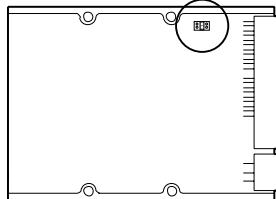
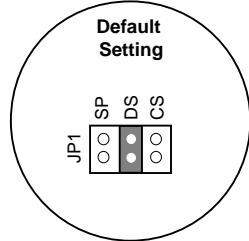
Jumper Setting
for Cable Select

Key Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

Drive Size: **2.5 GB** Model: **VORTEX**

Quantum Drive
Assembly Number 235314



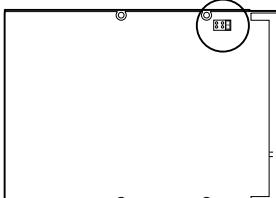
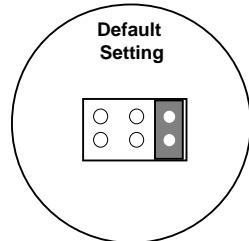
IDE Settings

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



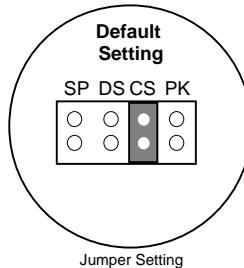
Jumper Settings
for Cable Select

Key ○ Jumper NOT Installed
■ Jumper Installed

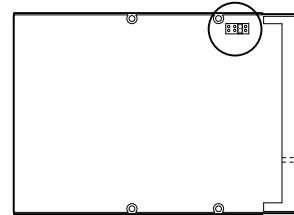
IDE Jumper Settings and Locations

Drive Size: **2550 MB** Model: **TEMPEST**

Quantum Drive
Assembly Number 247422



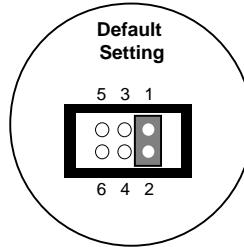
Jumper Setting
for Cable Select



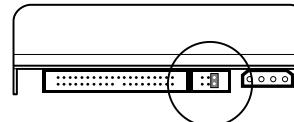
Key  Jumper NOT Installed
 Jumper Installed

Drive Size: **2550 MB** Model: **AC32500**

Western Digital Drive
Assembly Number 247577



Jumper Setting
for Cable Select

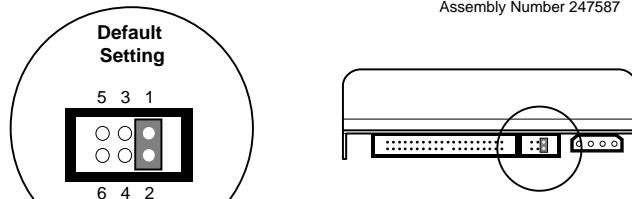


Key  Jumper NOT Installed
 Jumper Installed

IDE Jumper Settings and Locations

Drive Size: **2550 MB** Model: **C12**

Western Digital Drive
Assembly Number 247587

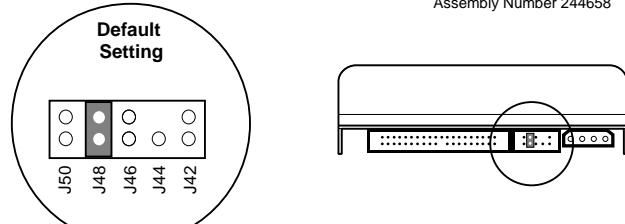


Jumper Setting
for Cable Select

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