

---

# 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

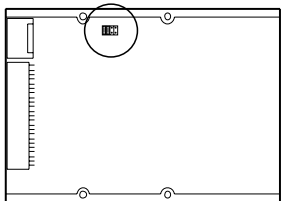
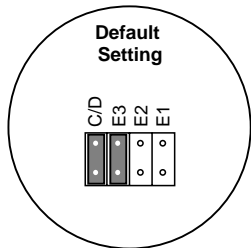
Controller	Drive	Hard Drive Type
Primary	0	65
Primary	1	66
Secondary	0	68
Secondary	1	15

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



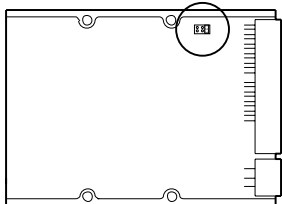
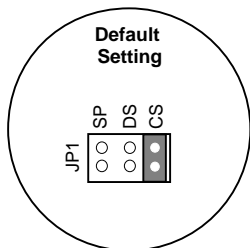
## IDE Settings

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



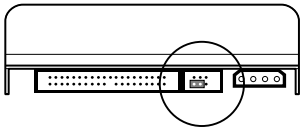
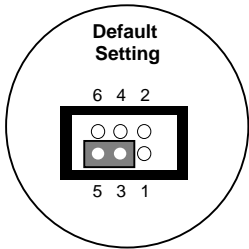
Jumper Setting  
for Cable Select

**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

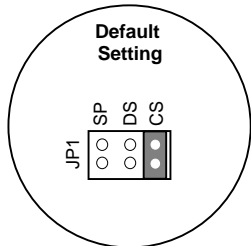
Configuration	1-2	3-4	5-6
Single drive configuration			
Device 0 configuration			
Device 1 configuration			
Cable select configuration			
Spare Jumper			

Key Jumper NOT Installed  
 Jumper Installed

# IDE Jumper Settings and Locations

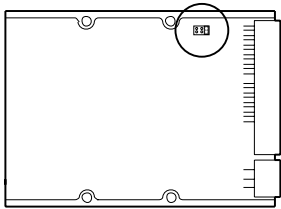
**Drive Size: 540 MB      Model: Fireball**

Quantum Drive  
Assembly Number 200346



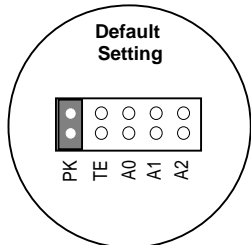
Jumper Setting  
for Cable Select

**Key** ○ Jumper NOT Installed  
● Jumper Installed

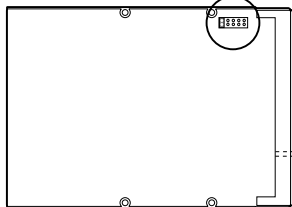


**Drive Size: 540 MB      Model: FIREBALL 540**

Quantum Drive  
Assembly Number 200346



Jumper Setting  
for Cable Select



## SCSI ID Settings

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

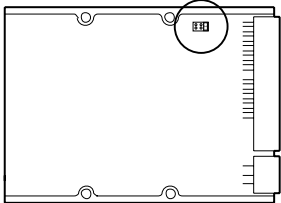
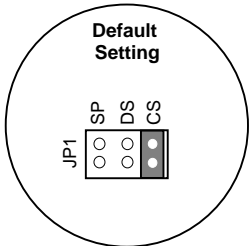
**Key** ○ Jumper NOT Installed  
● Jumper Installed

# IDE Jumper Settings and Locations



Drive Size: 630 MB

Model: Trailblazer

Quantum Drive  
Assembly Number 214125



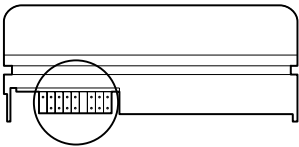
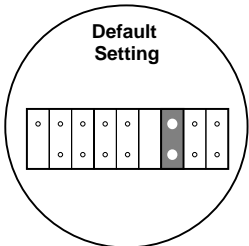
Jumper Setting  
for Cable Select

Key  Jumper NOT Installed  
 Jumper Installed



Drive Size: 630 MB

Model:

Conner Drive  
Assembly Number 213933



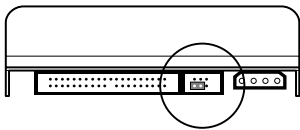
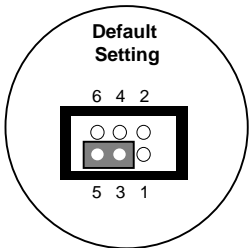
Jumper Setting  
for Cable Select

Key  Jumper NOT Installed  
 Jumper Installed

# IDE Jumper Settings and Locations

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

Western Digital Drive  
Assembly Number 214121



Jumper Setting  
for Cable Select

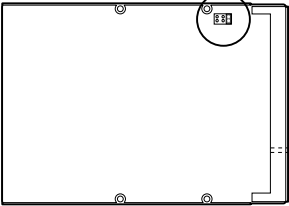
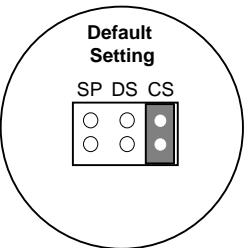
## IDE Settings

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

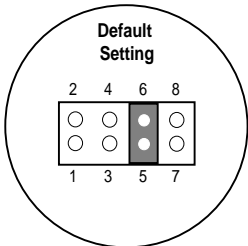
**Key** ○ Jumper NOT Installed  
■ Jumper Installed

# IDE Jumper Settings and Locations

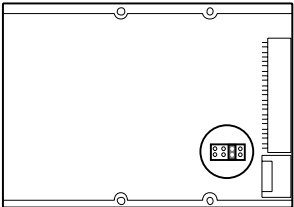
Drive Size: 630 MB

Model: ST3630A

Segate Drive  
Assembly Number 185352



Jumper Setting  
for Cable Select



### IDE Settings

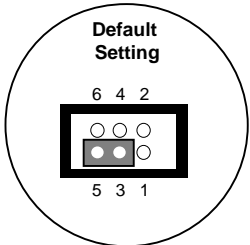
Configuration	1-2	3-4	5-6	7-8
Drive is Device 0; Device 1 is another ATA compatible drive or no Device 1 is present	○	○	○	○
The drive is Device 1 to an ATA-compatible Device 0	○	○	○	●
Drive is Device 0; Device 1 is present, but it is not ATA-compatible	○	○	●	○
Cable Select	○	●	○	○
Drive is Device 0;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

**Key** ○ Jumper NOT Installed  
● Jumper Installed

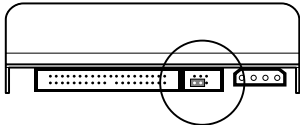
# IDE Jumper Settings and Locations

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

Western Digital Drive  
Assembly Number 214313



Jumper Setting  
for Cable Select



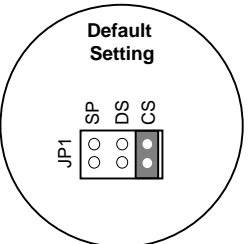
## IDE Settings

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

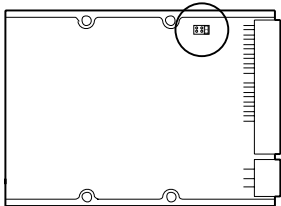
**Key** ○ Jumper NOT Installed  
■ Jumper Installed

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

Quantum Drive  
Assembly Number 214124



Jumper Setting  
for Cable Select



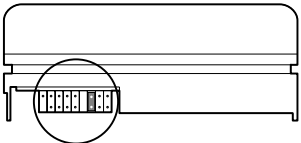
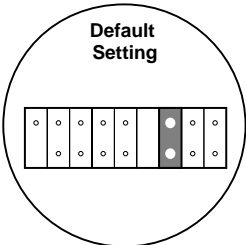
**Key** ○ Jumper NOT Installed  
■ Jumper Installed

# IDE Jumper Settings and Locations



Drive Size: 840 MB

Model:

Conner Drive  
Assembly Number 213932



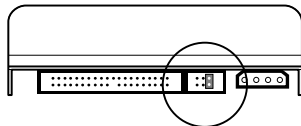
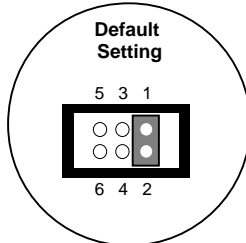
Jumper Setting  
for Cable Select

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

Default Setting

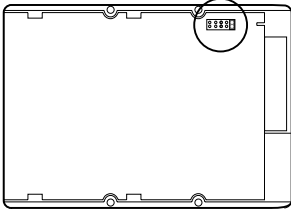
J20J21J22J23J24

Jumper Setting  
for Cable Select

Key

Jumper NOT Installed

Jumper Installed



Drive Size: 1.05 GB

Model: CFS1060A

Conner Drive  
Assembly Number 213935

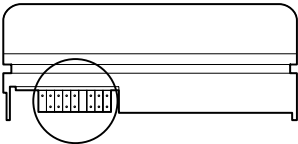
Default Setting

Jumper Settings  
for Cable Select

Key

Jumper NOT Installed

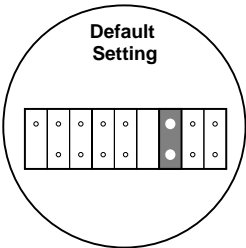
Jumper Installed



# IDE Jumper Settings and Locations

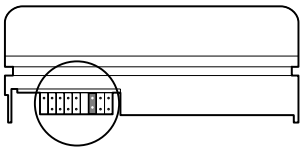
Drive Size: 1.05 GB      Model: CFS1060A

Conner Drive  
Assembly Number 247414



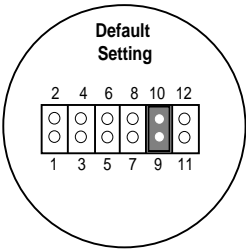
Jumper Setting  
for Cable Select

Key ○ Jumper NOT Installed  
● Jumper Installed

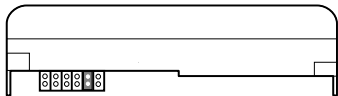


Drive Size: 1.08 GB      Model: ST51080A

Segate Drive  
Assembly Number 173206



Jumper Setting  
for Cable Select



## IDE Settings

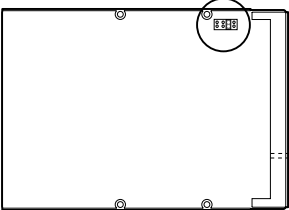
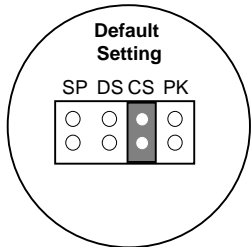
Configuration	1-2	3-4	5-6	7-8	9-10	11-12
Drive is single drive, Device 0	○	○	○	○	○	○
Drive is Device 1, Device 0 is present	●	●	○	○	○	○
Drive is Device 0, Device 1 is present	○	●	●	○	○	○
Cable Select	○	○	○	○	○	○

Key ○ Jumper NOT Installed  
● Jumper Installed



# IDE Jumper Settings and Locations

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

Quantum Drive  
Assembly Number 243040

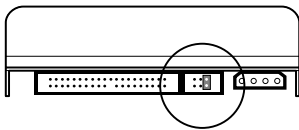
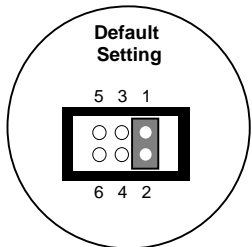


Jumper Setting  
for Cable Select



**Key**  Jumper NOT Installed  
 Jumper Installed

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

Western Digital Drive  
Assembly Number 243041



Jumper Setting  
for Cable Select

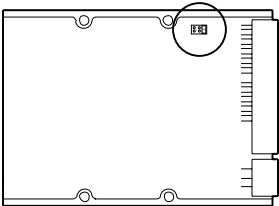
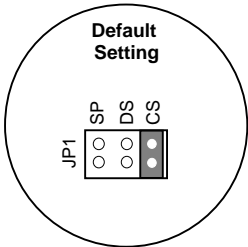
**Key**  Jumper NOT Installed  
 Jumper Installed

# IDE Jumper Settings and Locations

Drive Size: 1.08 GB

Model: Fireball

Quantum Drive  
Assembly Number 214123



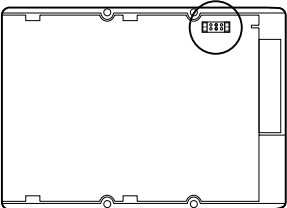
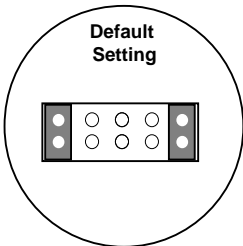
Jumper Setting  
for Cable Select

Key Jumper NOT Installed  
 Jumper Installed

Drive Size: 1.08 GB

Model: 71080AP

Maxtor Drive  
Assembly Number 247414



Jumper Setting  
for Cable Select

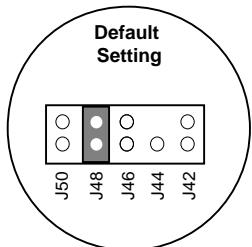
Key Jumper NOT Installed  
 Jumper Installed

# IDE Jumper Settings and Locations

Drive Size: **1080 MB**

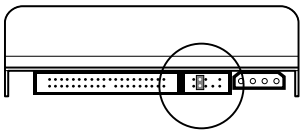
Model: **GEN 8**

Maxtor Drive  
Assembly Number 295992



Jumper Setting  
for Cable Select

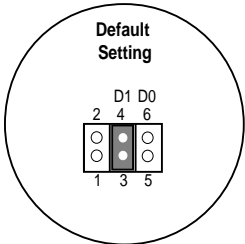
Key ○ Jumper NOT Installed  
● Jumper Installed



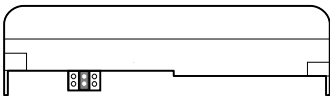
Drive Size: **1080 MB**

Model: **LAPAZ**

Segate Drive  
Assembly Number 177257



Jumper Setting  
for Cable Select



## IDE Settings

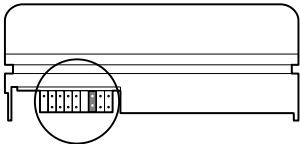
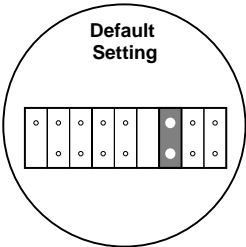
Configuration	3-4	5-6
Slave	○	○
Master	○	●
Cable Select	●	○
Master w/forced Slave present	○	●

Key ○ Jumper NOT Installed  
● Jumper Installed



# IDE Jumper Settings and Locations

Drive Size: 1.2 GB      Model: Cabo

Conner Drive  
Assembly Number 214159

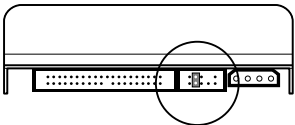
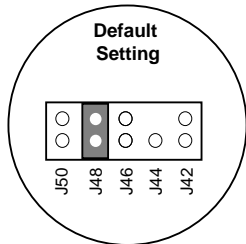


Jumper Setting  
for Cable Select



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

Default Setting

J20J21J22J23J24

Jumper Setting for Cable Select

Key

Jumper NOT Installed

Jumper Installed

Drive Size: 1.2 GB

Model: VORTEX

Quantum Drive  
Assembly Number 235313

Default Setting

JP1

Jumper Setting for Cable Select

Key

Jumper NOT Installed

Jumper Installed

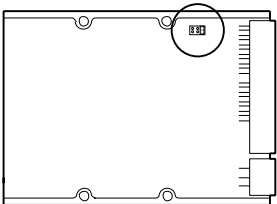
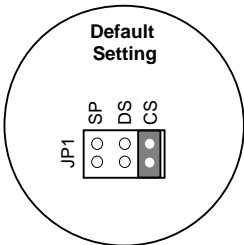
IDE Settings			
Configuration	CS	DS	SP
Slave Drive (using PDIAG)	<div><div></div><div></div></div>	<div><div></div><div></div></div>	<div><div></div><div></div></div>
Slave Drive (PDIAG and DASP not driven)	<div><div></div><div></div></div>	<div><div></div><div></div></div>	<div><div></div><div></div></div>
Master Drive (uses DASP)	<div><div></div><div></div></div>	<div><div></div><div></div></div>	<div><div></div><div></div></div>
Master Drive (uses SP jumper)	<div><div></div><div></div></div>	<div><div></div><div></div></div>	<div><div></div><div></div></div>
Cable Select	<div><div></div><div></div></div>	<div><div></div><div></div></div>	<div><div></div><div></div></div>

# IDE Jumper Settings and Locations

Drive Size: 1.2 GB

Model: Fireball 2

Quantum Drive  
Assembly Number 185050

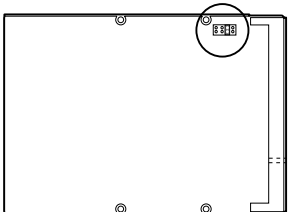
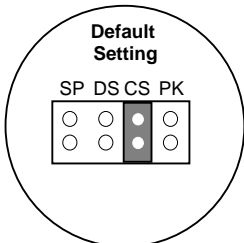


Key ○ Jumper NOT Installed  
● Jumper Installed

Drive Size: 1.2 GB

Model: TEMPEST

Quantum Drive  
Assembly Number 238275

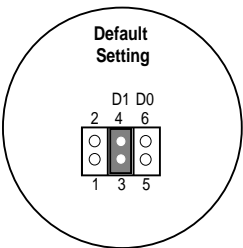


Key ○ Jumper NOT Installed  
● Jumper Installed

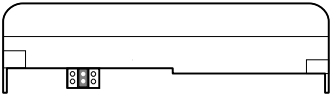
# IDE Jumper Settings and Locations

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

Segate Drive  
Assembly Number 243038



Jumper Setting  
for Cable Select

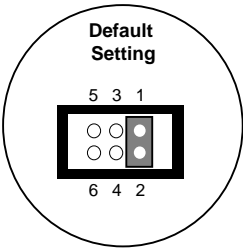


IDE Settings

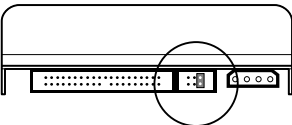
Configuration	3-4	5-6
Slave		
Master		
Cable Select		
Master w/forced Slave present		
<b>Key</b> Jumper NOT Installed Jumper Installed		

**Drive Size: 1.2 GB** **Model: BANDIT**

Western Digital Drive  
Assembly Number 237834



Jumper Setting  
for Cable Select

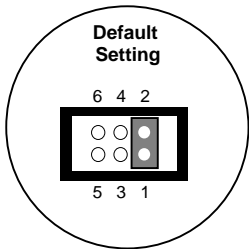


**Key** Jumper NOT Installed  
 Jumper Installed

# IDE Jumper Settings and Locations

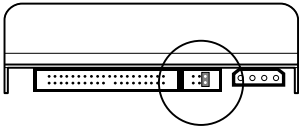
Drive Size: 1.6 GB      Model: AC31600

Western Digital Drive  
Assembly Number 213988



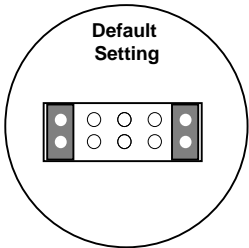
Jumper Setting  
for Cable Select

Key    Jumper NOT Installed  
         Jumper Installed



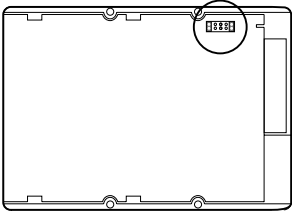
Drive Size: 1.6 GB      Model: 71626AV

Maxtor Drive  
Assembly Number 214022



Jumper Setting  
for Cable Select

Key    Jumper NOT Installed  
         Jumper Installed

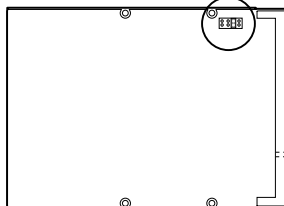
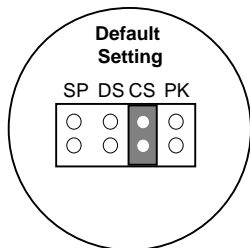


# IDE Jumper Settings and Locations

Drive Size: **1600 MB**

Model: **TEMPEST**

Quantum Drive  
Assembly Number 247421



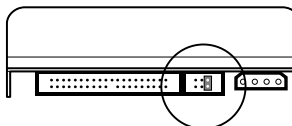
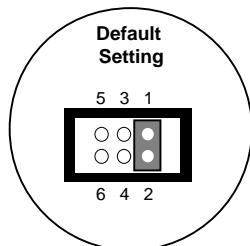
Jumper Setting  
for Cable Select

**Key** ○ Jumper NOT Installed  
● Jumper Installed

Drive Size: **1600 MB**

Model: **AC21600**

Western Digital Drive  
Assembly Number 247576



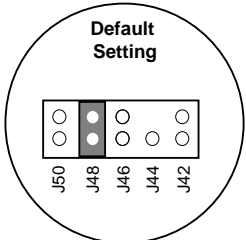
Jumper Setting  
for Cable Select

**Key** ○ Jumper NOT Installed  
● Jumper Installed

# IDE Jumper Settings and Locations

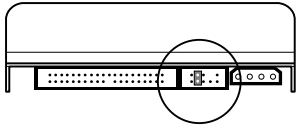
**Drive Size: 1600 MB      Model: GEN 8**

Maxtor Drive  
Assembly Number 244656



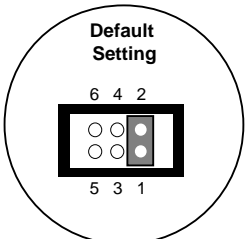
Jumper Setting  
for Cable Select

**Key** Jumper NOT Installed  
 Jumper Installed



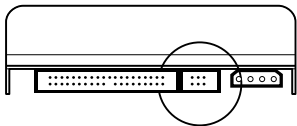
**Drive Size: 1.62 GB      Model: AC31600**

Western Digital Drive  
Assembly Number 247489



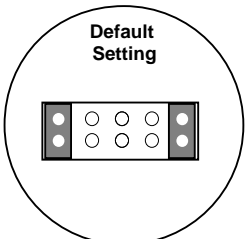
Jumper Settings  
for Cable Select

**Key** Jumper NOT Installed  
 Jumper Installed



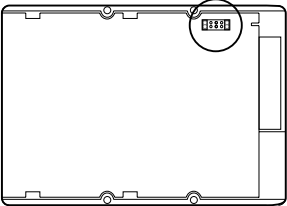
**Drive Size: 1.62 GB      Model: 71620AP**

Maxtor Drive  
Assembly Number 247415



Jumper Settings  
for Cable Select

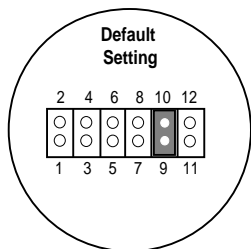
**Key** Jumper NOT Installed  
 Jumper Installed



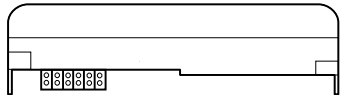
# IDE Jumper Settings and Locations

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

Seagate Drive  
Assembly Number 200347



Jumper Settings  
for Cable Select



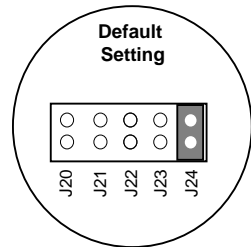
IDE Settings

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						

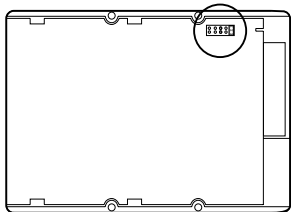
**Key** Jumper NOT Installed  
 Jumper Installed

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

Maxtor Drive  
Assembly Number 243039



Jumper Setting  
for Cable Select

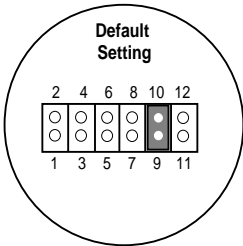


**Key** Jumper NOT Installed  
 Jumper Installed

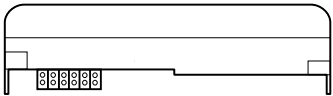
# IDE Jumper Settings and Locations

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

Segate Drive  
Assembly Number 213989



Jumper Settings  
for Cable Select



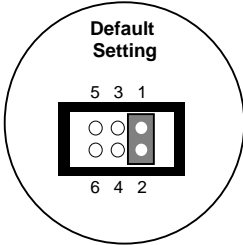
### IDE Settings

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						

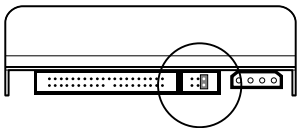
**Key** Jumper NOT Installed  
 Jumper Installed

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

Western Digital Drive  
Assembly Number 247586



Jumper Setting  
for Cable Select



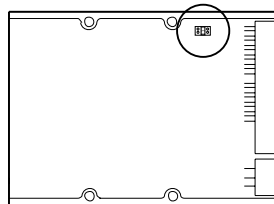
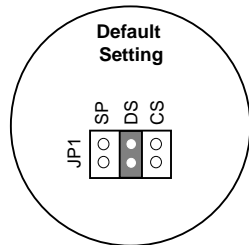
**Key** Jumper NOT Installed  
 Jumper Installed

# IDE Jumper Settings and Locations

Drive Size: **2.5 GB**

Model: **VORTEX**

Quantum Drive  
Assembly Number 235314



## IDE Settings

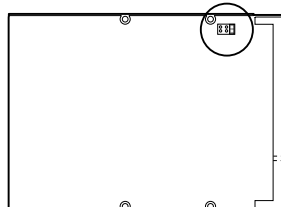
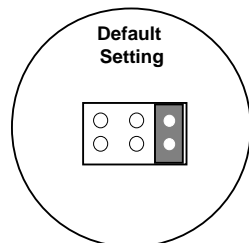
Configuration	CS	DS	SP
Slave Drive (using PDIAG)	○	○	○
Slave Drive (PDIAG and DASP not driven)	○	○	●
Master Drive (uses DASP)	○	●	○
Master Drive (uses SP jumper)	○	●	●
Cable Select	●	○	○

**Key** ○ Jumper NOT Installed  
● Jumper Installed

Drive Size: **2.5 GB**

Model: **SIROCCO**

Quantum Drive  
Assembly Number 237745



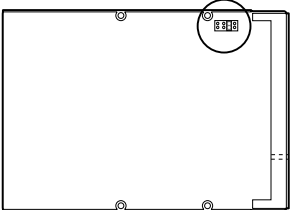
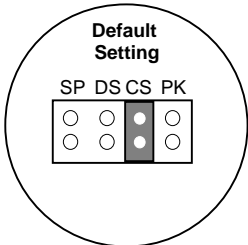
**Key** ○ Jumper NOT Installed  
● Jumper Installed

# IDE Jumper Settings and Locations

Drive Size: 2550 MB

Model: TEMPEST

Quantum Drive  
Assembly Number 247422



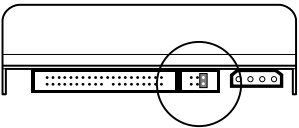
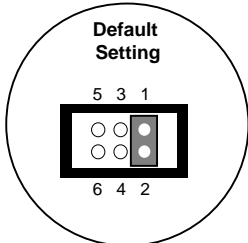
Jumper Setting  
for Cable Select

**Key** Jumper NOT Installed  
 Jumper Installed

Drive Size: 2550 MB

Model: AC32500

Western Digital Drive  
Assembly Number 247577



Jumper Setting  
for Cable Select

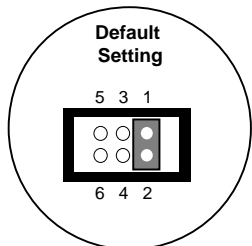
**Key** Jumper NOT Installed  
 Jumper Installed

# IDE Jumper Settings and Locations

Drive Size: **2550 MB**

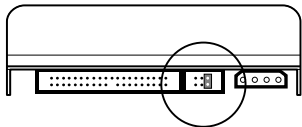
Model: **C12**

Western Digital Drive  
Assembly Number 247587



Jumper Setting  
for Cable Select

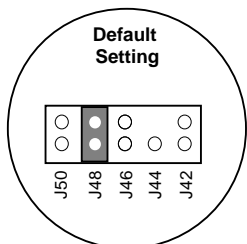
**Key** ○ Jumper NOT Installed  
● Jumper Installed



Drive Size: **2550 MB**

Model: **GEN 8**

Maxtor Drive  
Assembly Number 244658



Jumper Setting  
for Cable Select

**Key** ○ Jumper NOT Installed  
● Jumper Installed

