Board number

PN128206—01 Rev. B

Jumpers DS0, DS1, DS2 and DS3

The DS0 to DS3 jumpers determine the *Drive Select* signal the drive should react to.

Only one of the jumpers must be placed.

For PC—AT interfaces only DS0 and DS1 will function, for Shugart interfaces DS0 to DS3 will work.

When using the drive in a system with PC—AT interface, it should be noted that the *Motor Enable* input signal is only taken from pin number 16. There are two options to handle this issues. The first option is to use a ribbon cable with a twist and place the DS1 jumper on all drives. In this case the drive that is connected behind the twist will be drive 0 and the drive that is connected before the twist will be drive 1. The second option is to use a untwisted ribbon cable and shorting the pin number 10 and pin number 16 together, the DS0 or DS1 jumper of the connected drives can then be placed.

When using the drive in a systems with Shugart interface DS0, DS1, DS2 or DS3 can be placed to make it drive 0, drive 1, drive 2 or drive 3 respectively.

The jumper DS1 will be placed in the default setting.

Jumpers JP1 and JP2

Function unknown. Influences the raw magnetic signal.

In the default setting neither jumper is set.

Jumper JP3

Function unknown.

In the default setting this jumper is set via a 0Ohm resistor.

Jumper JP4

The JP4 solder jumper connects the output for pin number 4 to an internal driver that fed by the internal *Ready* signal.

When the JP4 jumper is not placed pin number 4 will not be driven.

When the JP4 jumper is placed pin number 4 will be driven with the internal *Ready* signal.

In the default setting this jumper is not set.

Jumper JP5

The JP5 solder jumper connects the output for pin number 34 (*Ready/Disk Change*) to the internal driver.

When the JP5 jumper is not placed pin number 34 will not be driven.

When the JP5 jumper is placed pin number 34 will be driven.

In the default setting this jumper is set via a 0Ohm resistor.

Jumpers JP6 and JP7

The JP6 and JP7 solder jumpers select what signal shall be output on pin number 34.

When JP6 is placed the *Ready* signal will be used.

When JP7 is placed the *Disk Change* signal will be used.

For PC-AT interfaces the JP7 jumper should be set via a 0Ohm resistor, this is also the default setting.

Jumper JP8

The JP8 solder jumper controls under what conditions the drive motor should turn on.

When the JP8 jumper is not placed the motor will only turn on when the *Motor Enable* signal is active.

When the JP8 jumper is placed the motor will only turn on when the *Drive Select* signal is active.

For PC-AT interfaces the JP8 jumper should not be set, this is also the default setting.

Jumper JP9

The JP9 solder jumper influences the step width.

When the JP9 jumper is not placed a *Step* signal will move the head by one step.

When the JP9 jumper is placed a *Step* signal will move the head by two steps.

In the default setting this jumper is not set.

Jumpers JP10 and JP11

Function unknown.

In the default setting the JP11 jumper is set via a 0Ohm resistor.

Jumper JP12

The JP12 solder jumper controls the drives rotational speed.

When the JP12 jumper is not placed the rotational speed will always be 360 RPM.

When the JP12 jumper is placed the rotational speed will always be 300 RPM.

In the default setting this jumper is not set.

Jumper JP13

The JP13 jumper connects the *Density Select* signal to the internal logic.

When the JP13 jumper is not placed the *Density Select* signal will be disconnected and the drive will always be in low density mode.

When the JP13 jumper is placed the *Density Select* signal will be connected and the density mode will depend on the *Density Select* signal.

In the default setting this jumper is set via a 0Ohm resistor.