



Board number
15532001-03K

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.

Jumper HL

The HL jumper controls whether or not the input on pin number 4 should be interpreted as *Head Load* signal.

When the HL jumper is not placed the signal will not be interpreted as *Head Load* signal.

When the HL jumper is placed the signal will be interpreted as *Head Load* signal.

This jumper should only be placed when the floppy controller generates a valid *Head Load* signal. It is not placed in the default setting.

Jumpers HS and HM

The HS and HM jumpers determines how the automatic head loading functions.

When the HM jumper is placed the head will be loaded when the *Motor Enable* signal is active.

When the HS jumper is placed the head will be loaded when the *Drive Select* signal is active.

In the default setting the HS jumper is placed.

Jumper IU

The IU jumper controls whether or not the input on pin number 4 should be interpreted as *In Use* signal.

When the IU jumper is not placed the signal will not be interpreted as *In Use* signal.

When the IU jumper is placed the signal will be interpreted as *In Use* signal.

If it is interpreted as *In Use* signal, an active *In Use* signal will turn the activity LED in the front panel on, no matter how U0, U1 and U2 might be placed.

This jumper should only be placed when the floppy controller generates a valid *In Use* signal. It is not placed in the default setting.

Jumper ML

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

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

When the ML jumper is placed the motor will turn on when either the *Motor Enable* is signal active or the activity LED is lit.

This jumper is not placed in the default setting.

Jumper MX

The MX jumper defines if the drive is in multiplex mode or if it is in regular drive select mode. In multiplex mode the drive is permanently active, as if its *Drive Select* signal was active.

When the MX jumper is not placed the drive will function in regular drive select mode, only being active when its *Drive Select* signal is active.

When the MX jumper is placed the drive will always be active regardless of its *Drive Select* signal.

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

Jumper PM

The PM jumper controls the spindle spin-up when inserting a disc.

When PM is not placed the spindle not rotate when inserting a disc.

When PM is placed the spindle will rotate when inserting a disk, aiding the correct alignment.

This jumper is placed in the default setting.

Jumper RE

The RE jumper enabled or disabled the automatic zero seeking of the head carriage upon power-up.

When the RE jumper is not placed the drive will not attempt any seeking upon power-up.

When the RE jumper is placed the drive will attempt to seek to track zero upon power-up.

This jumper is not placed in the default setting.

Jumper SM

The SM jumper enabled or disabled the automatic head loading.

When the SM jumper is not placed the automatic head loading will be disabled.

When the SM jumper is placed the automatic head loading will be enabled.

In the default setting the SM jumper is placed.

Jumpers U0, U1 and UR

The U0, U1 and UR jumpers determine the behavior of the drives activity LED in the front panel.

When only U0 is placed no signal but the *In Use* signal (only when enabled) will light up the activity LED.

When only U1 is placed the activity LED will light up with the latched *In Use* signal or when the *Drive Select* signal is active.

When U0 and U1 are placed the activity LED will light up with the latched *In Use* signal.

When no jumpers are placed the activity LED will light up with the *Drive Select* signal.

When only UR is placed the activity LED will light up when the *Drive Select* signal is active and the drive is ready.

In the default setting no jumper is placed.