

**If you are fitting a different Agnus to your Phoenix Board,  
please observe the following :**

This was originally located in the "ConfiguredPhoenixBoards" folder of the CD which came with the Phoenix Board 2005. Version #2 onwards.

Look at the pictures in this folder's subfolders, particularly the ones where I have added comments to the pictures, these are saved as "small" when I cropped them from the original scans. They were then saved as "setup" when I added the text comments.

If you are fitting an 8372B, 2Meg Agnus, also have a look at the "8372B-2MegChipRAMMod" folder in the "PhoenixMods&Addons" folder as well. This is a scan of the original Phoenix document and shows the wires under the board. These are already fitted to the 2005 version of the Phoenix Board but would have to be fitted if you are changing an earlier version.

The previous documentation mentions various combinations of Agnus and RAM chips. Not all of these will work, the 8372B Agnus was not available when those documents were written so only best guesses could be made. It is not clear that the U60E PAL chip must be removed if using the 8372B but this is so and is shown in the table below. You will have to set the various links on the Phoenix Board to suit your configuration. I have provided "setup" pictures as detailed above only for the 2 versions marked with an asterisk "\*" as these are what the boards were tested to and shipped with.

Currently available configurations

Agnus	ChipRAM Setup Pic?	SlowRAM	U60E fitted	Type of RAM used
8371	512K		No	4off 256Kx4
	512K	512K	No	8off 256Kx4
8372A	512K		No	4off 256Kx4
	512K	512K	No	8off 256Kx4
	1Meg		No	8off 256Kx4
	1Meg	1Meg	Yes	16off 256Kx4
*				
8372B	2Meg		No	4off 1Mx4
*				

NOTE : THESE ARE THE ONLY SUPPORTED CONFIGURATIONS AT PRESENT!!!!  
IF YOU USE OTHER CONFIGURATIONS YOU DO SO AT YOUR OWN RISK!!!!

Future configurations, which may be possible.

Agnus	ChipRAM	SlowRAM	U60 fitted	Type of RAM used
8372B	2Meg		U60F	16off 256Kx4
	2Meg	6Meg	U60G	16off 1Mx4
8375	2Meg		U60H	16off 256Kx4
	2Meg		U60J	4off 1Mx4
	2Meg	6Meg	U60K	16off 1Mx4

The PALs versioned U60F through to U60K do not exist yet and are subject to being electronically possible, and the time being available!

1. By using similar methodology to the A3000 boards, it should be possible, in a PAL, to generate the extra control lines needed to use the 256Kx4s with the 8372B. This will be the basis of the proposed U60F PAL.
2. Using similar techniques to that of the U60E PAL it should be possible to create the U60G and have a total of 8Meg in the main board, 2Meg Chip and 6Meg Slow.
3. Once I am able to obtain supplies of the 8375 Agnus it will be possible to work out how to use this version. The 8375 is pinned out to work with the newer 256Kx16 DRAMs and its pins need to be split-up to handle the older chips.
4. In describing the position of the links, the following wording is used :
  - IN means the 2 pin link is connected by the shorting clip.
  - OUT means the 2,3 or 4 pin link is not connected.
  - LEFT means the left side of a 3 or 4 pin link block is connected.
  - RIGHT means the right side of a 3 or 4 pin link block is connected.
5. SlowRAM is RAM that is on the GraphicRAM bus but is not Chip or Graphics RAM, under normal use it is not slower than FastRAM but under certain cycle stealing graphics modes will be slower than FastRAM. A500 internal expansion RAM is like this also.