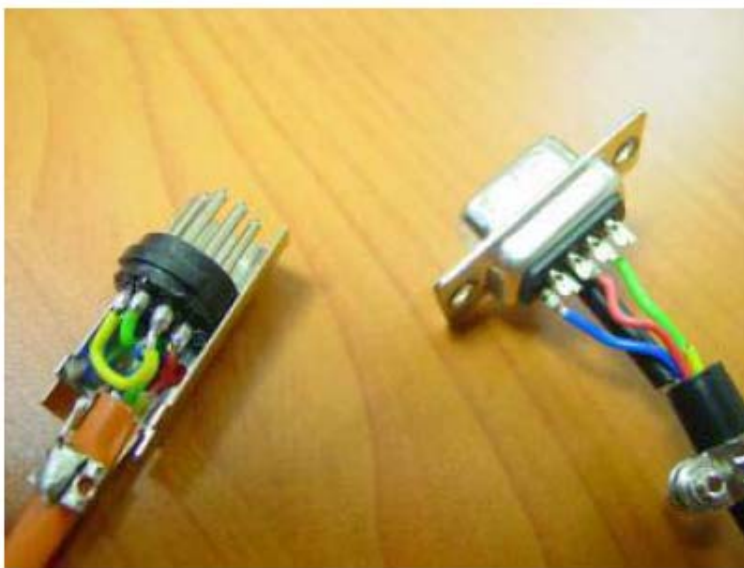
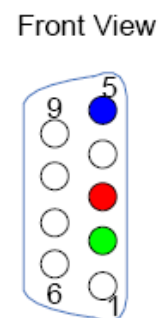
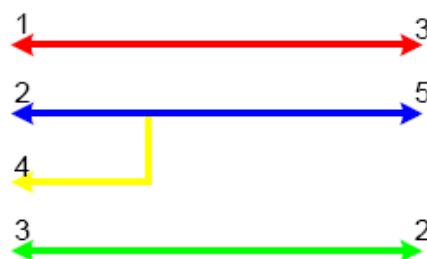
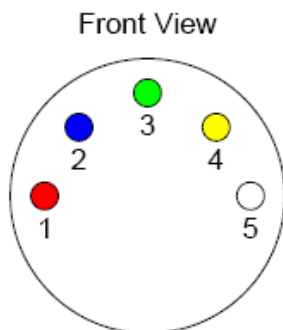


## Instructions for re-burning the firmware on the AMP 2001XP micro

Firstly you will need to remove the back panel, to do this you will need to prise off the corner caps usually the ones opposite to where the power plugs in, this can be done by inserting a small flat bladed screw driver between the cap and the frame and popping it off. Beneath them you will find a bolt, this can now be removed using a 13mm spanner. The end part of the frame should now come away and the front or back panel slide out. You should now be able to locate the micro and with the power on, the programming lead wired as below:



- Red wire between pin 1 on the round connector and pin 3 on the DB9 connector.
- Blue wire between pin 2 on the round connector and pin 5 on the DB9 connector.
- Green wire between pin 3 on the round connector and pin 2 on the DB9 connector.
- The yellow wire is connected between pin 4 and pin 2 on the round connector.



Should be plugged into the white 5-way connector on the board labelled 'J7'; the display should go blank.  
Programming the firmware

Now copy the program 'Serprog' and also your firmware file with the extension .mhx from the disk to your computer and open it Serprog using the shortcut:



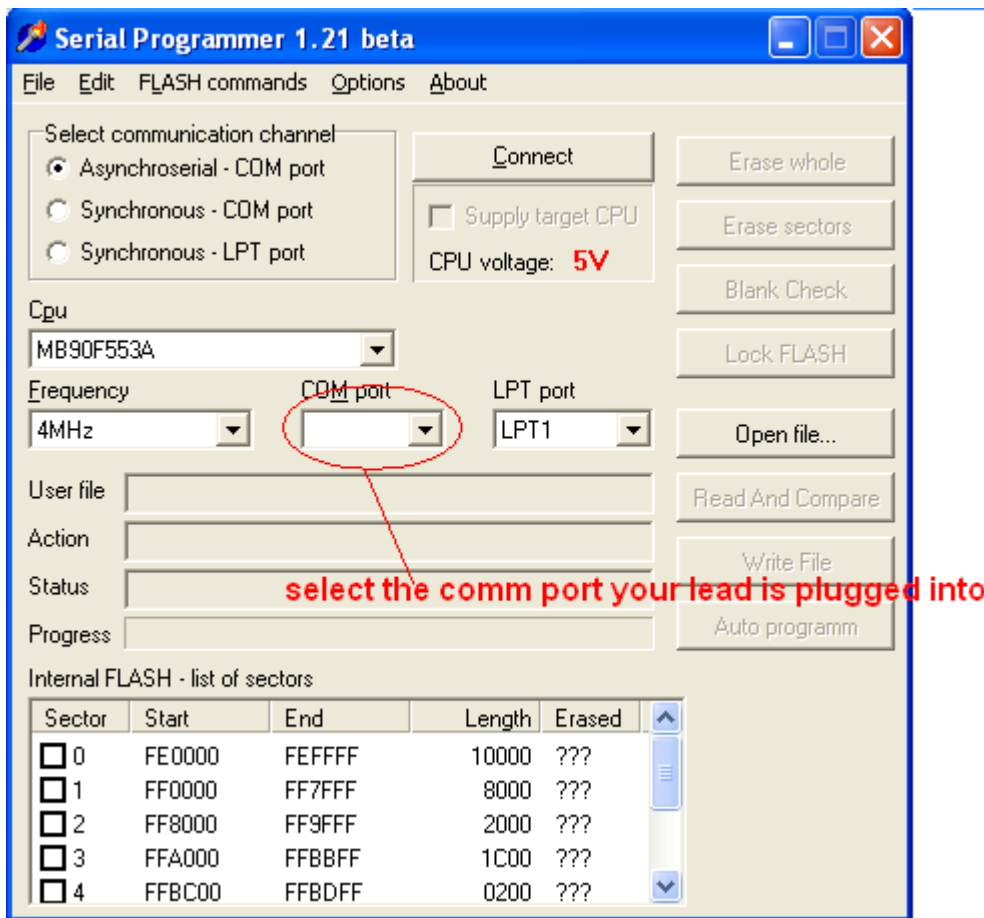
and set program as so:

Select communications panel – **Asynchroserial**

Cpu – **MB90F55A**

Frequency – **4Mhz**

Eg:



- Click on the **Open file...** option and locate the new firmware on your computer (the file ending in .mhx) and load it into the program.
- Click the **Connect** option, the computer will attempt to connect to the Micro, and asks if the CPU has been Reset; Press **OK**. At this you are looking for a blue line to travel across the 'downloading kernel' screen that appears:



If this does not appear press the reset button on the micro located next to the connector **j7**.

- Next click the **Erase whole** option and then verify that you want to clear the flash.
- Finally click the **Write file** option and once again you are looking for blue line to travel across the 'Writing data' box.  
Once this has finished you can unplug the programming lead and your display should come to life Again.