

Introduction

This adapter allows you to use an unmodified PC floppy disk drive with an Amiga computer. This adapter only supports the use of DS/DD 880K floppy disks, even if you fit a PC style High Density (HD) drive.

In addition, this adaptor provides a fix for Escom/Amiga Technologies A1200 units which have a motherboard and drive modification that prohibits the use of some NON-DOS games. A simple clip on fix is provided.

You can use this adaptor to replace aging or broken drives in any Amiga model. This guide provides details of how to fit and test the adaptor. Cosmetic changes to the drive, to fit A500/A600/A1200 faceplate are not covered by this manual.

Note: Schematic and PCB layout are provided at the end of the manual.

Required tools

Philips or flat blade screwdrivers, as required, to disassemble your computer.

Needle nose pliers

Cutters

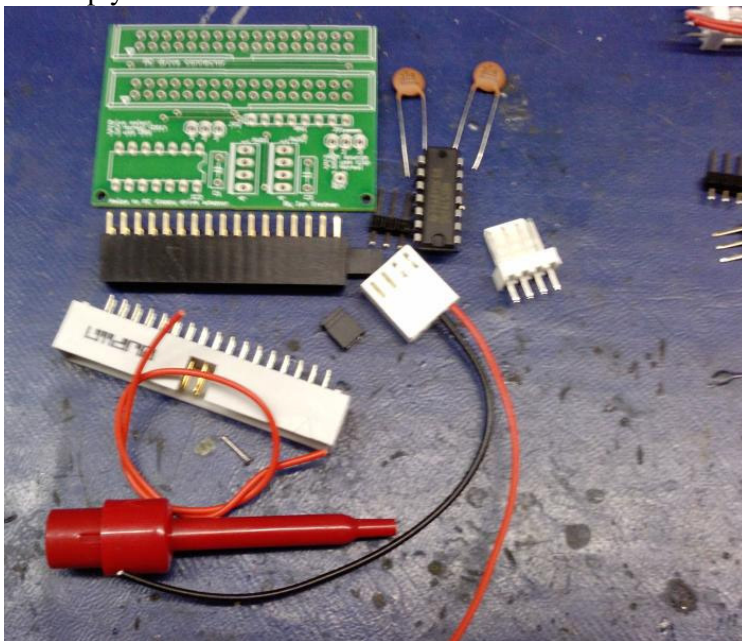
Soldering iron with a pencil tip

Solder

Flux cleaner (optional)

Kit contents

Before starting assembly, inspect the kit contents, you should have 3 bags. Opening them up you will have:



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Tick off the contents of the kit using the table here

Item	Quantity	Present (✓)
PCB	1	
74LS38 NAND gate	1	
34 way IDC connector plug (white)	1	
34 way right angle IDC socket (black)	1	
Assembled power lead	1	
3 pin header	2	
Jumper link	2	
2K2 SIL resistor pack	1	
100nF capacitor	1	
Length of wire and test clip	1	
PCB pin	1	
4 pin polarized connector (white)	1	

If there are any parts missing, please contact me via email,
amigasales@ianstedman.co.uk

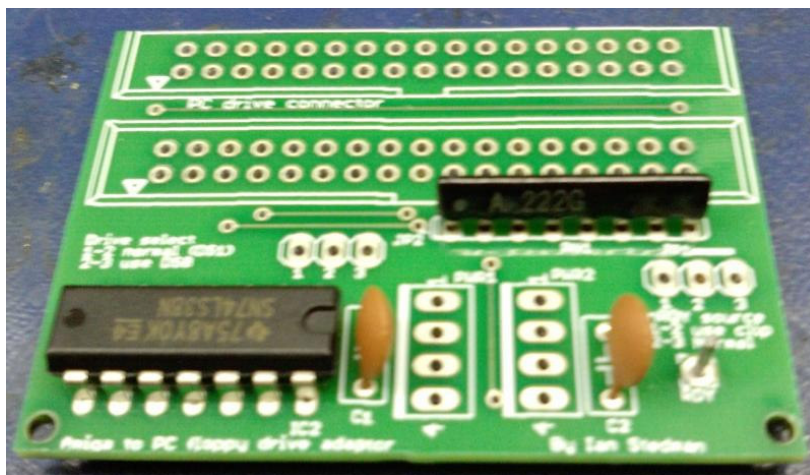
Assembly

When assembling this board it is easiest to start with the lowest profile parts and work your way upward. This allows for frequent turning of the PCB whilst assembling.

Step 1

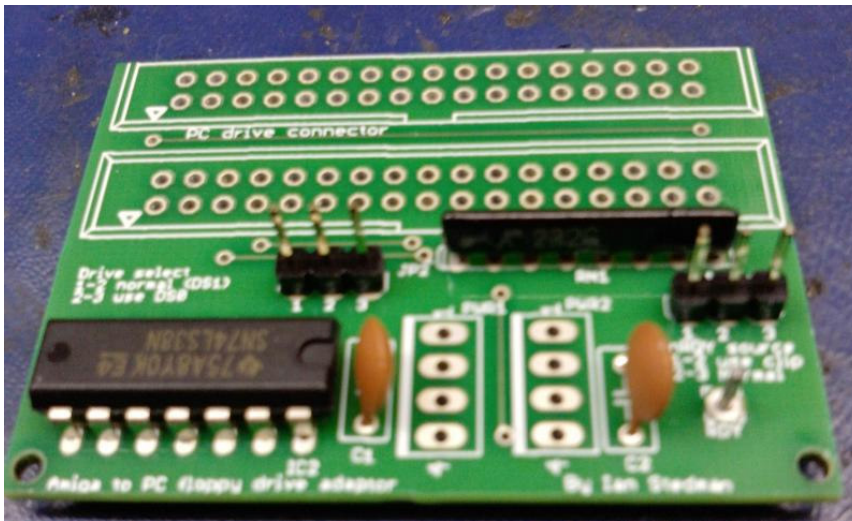
Inset the 74LS38, the decoupling capacitors SIL resistor and PCB pin and solder in place.

Ensure that the notch on the 74LS38 faces the right hand side of the board as shown here. Also ensure that the white dot on the resistor network faces the left hand side of the PCB.



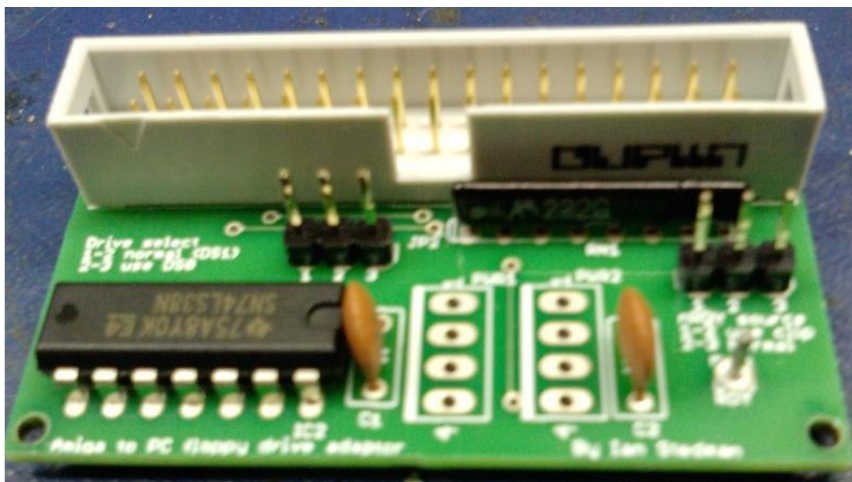
Step 2

Next insert the 3 pin headers and solder in place.



Step 3

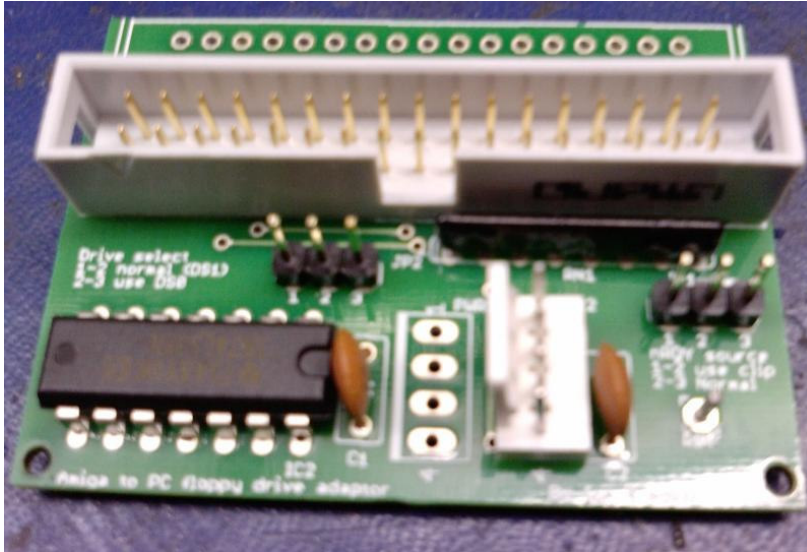
Insert the 34 way IDC connector plug in place and solder it in. Ensure that the polarising cutout is orientated as shown here.



Step 4

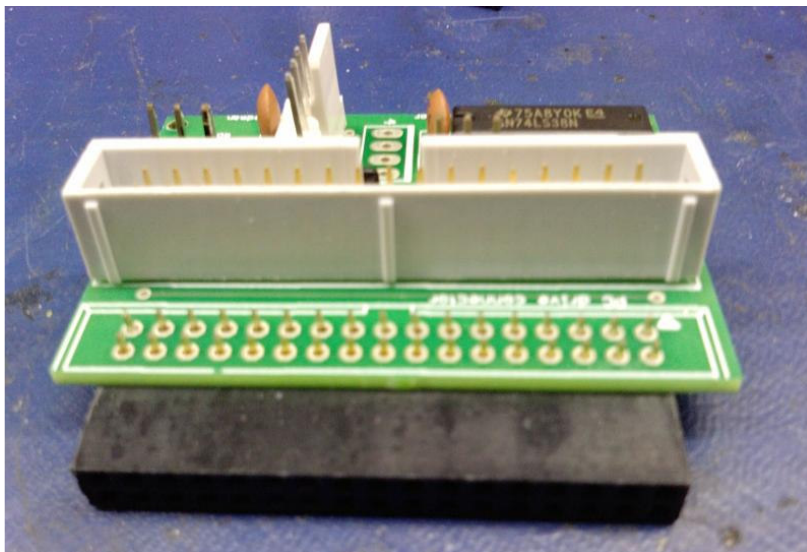
Insert and solder the power connector.

Ensure that the polarising lug faces the left hand side of the PCB as shown here.



Step 5

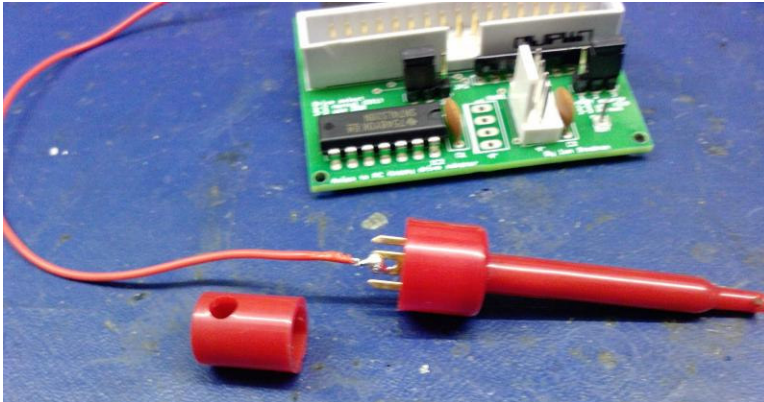
Solder the PC floppy drive connector in place. Note that it is affixed from the solderside (underside) of the PCB as shown here.



Step 6

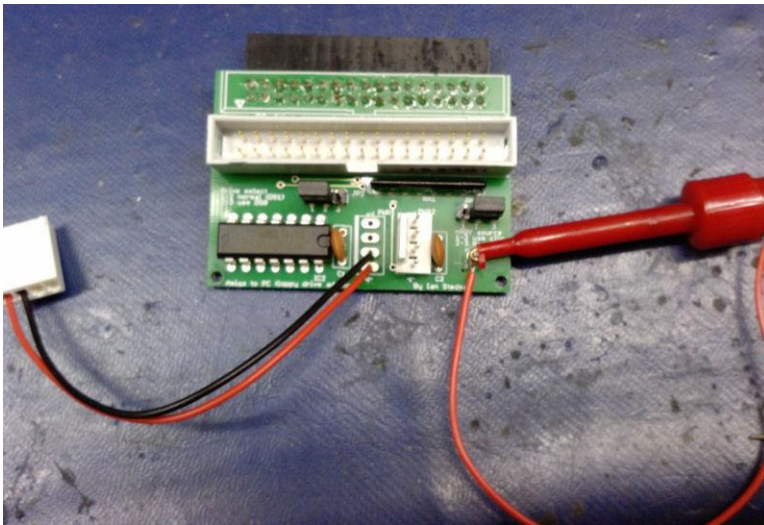
The nRDY jumper lead, if required can now be fitted. Simply pull off the end cap of the test clip and solder the wire in place. Replace the cap and solder the other end of the lead to the PCB onto the PCB pin fitted in step 1.

Fit the two jumper links. JP1 should cover 2-3, JP2, 1-2.



Step 7

Solder the power lead in place. You will need to remove approx 8mm of insulation and tin the wire first. The red wire goes into the hole at the bottom, which has the number '4' closest. The black lead goes into the adjacent hole.



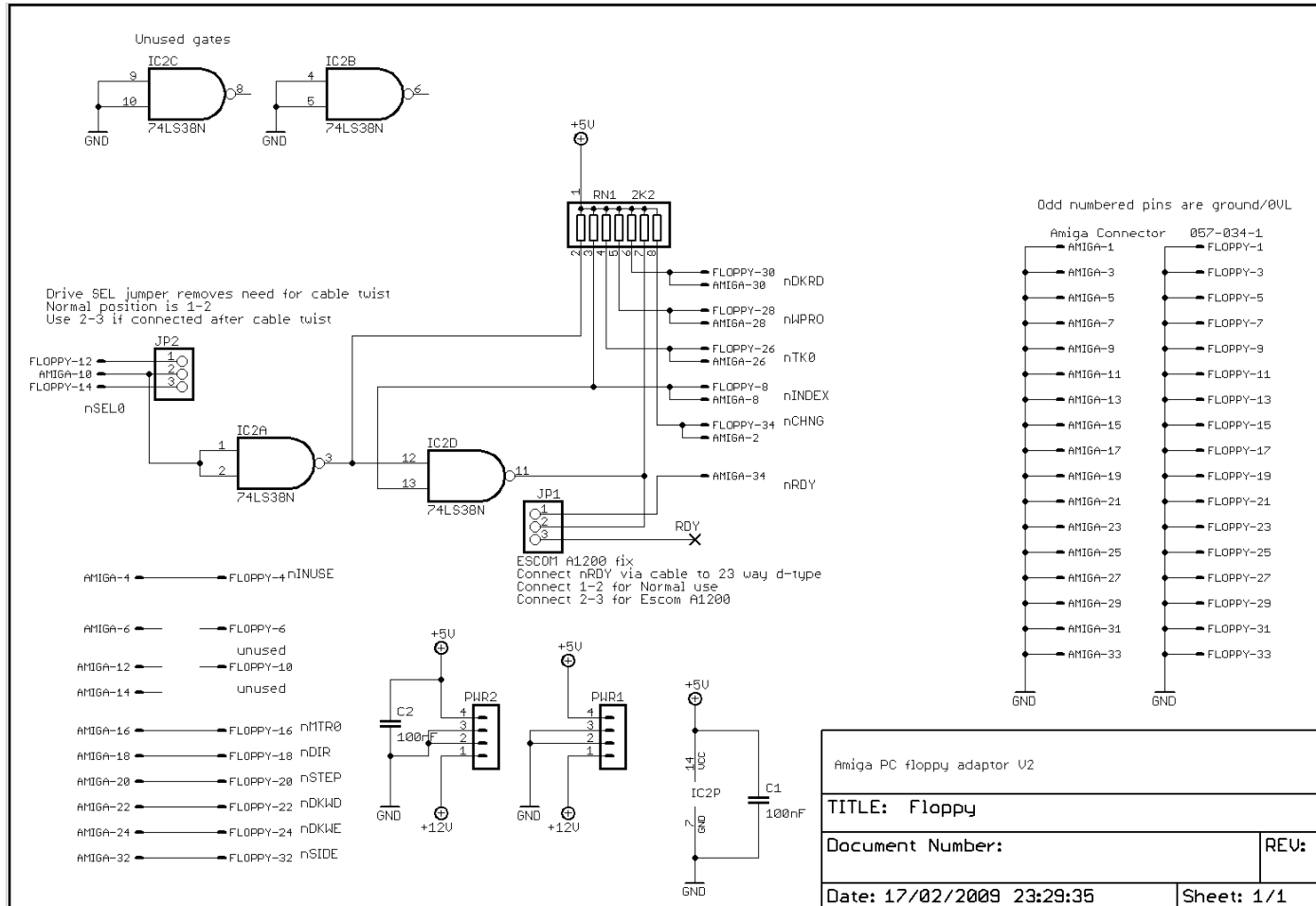
Inspection and testing

Before connecting the unit to your computer, double check all solder joints for short circuits. It is advisable to use a flux cleaner after soldering, this will aid in inspection.

For testing, please refer to the floppy adapter user manual.

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Schematic



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PCB layout (component side)

