



[www.lotharek.pl](http://www.lotharek.pl)

# **AMIGA 500/500+**

## **2MB CHIP RAM EXPANSION**

1.	SHORT description.....	2
2.	Proper installation.....	3

Some time ago, I have received my first AMIGA 500+ computer. It was revision 8a with only 512Kb of ram...not enough unfortunately ;-).

3 hours later ....i designed small board to solve my problem. (Ram size is actually 8mb ;- ) but 2 highest address lines are "grounded")

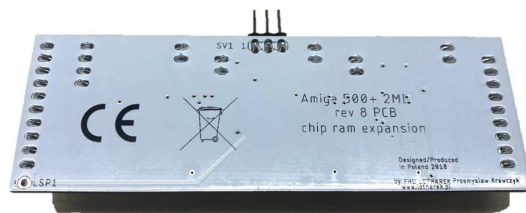
**Important:**

- for rev 8.X motherboards only
- Soldering skills are required
- trap door ram expansion will not be usable
- in next part of this document, memory expansion will be called : **MEMORY MODULE**

**BOTTOM OF MEMORY MODULE**



**TOP OF MEMORY MODULE  
/PROPER ORIENTATION/**

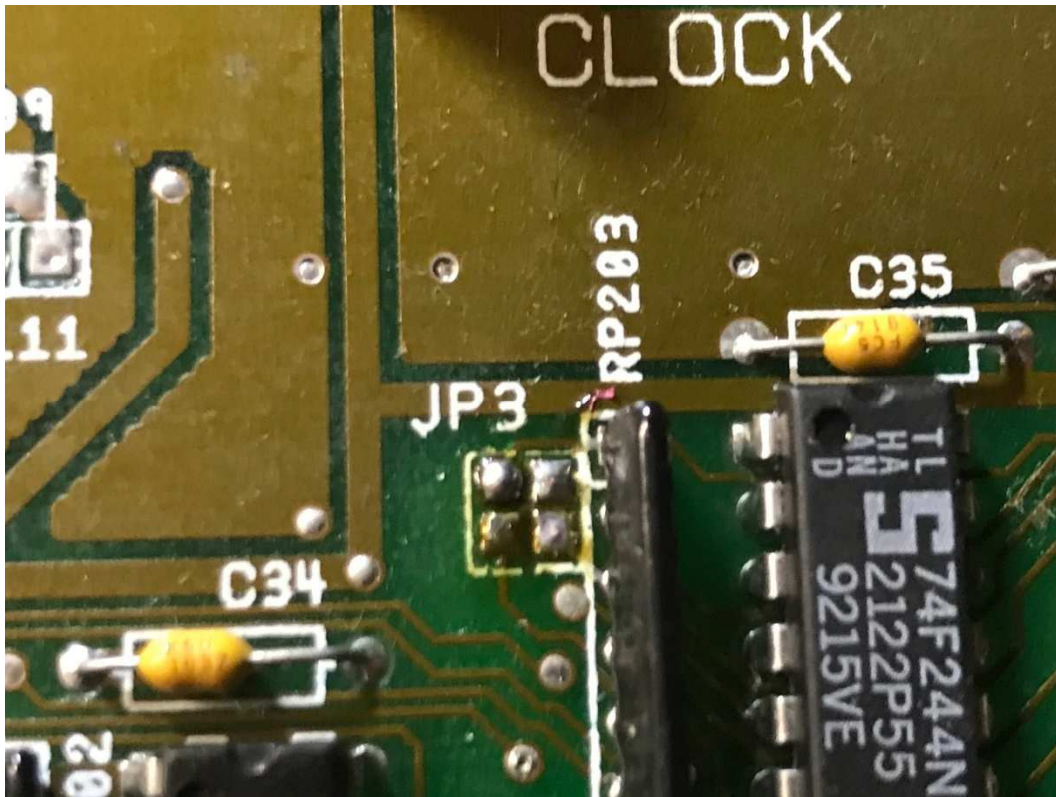


**Proper installation**

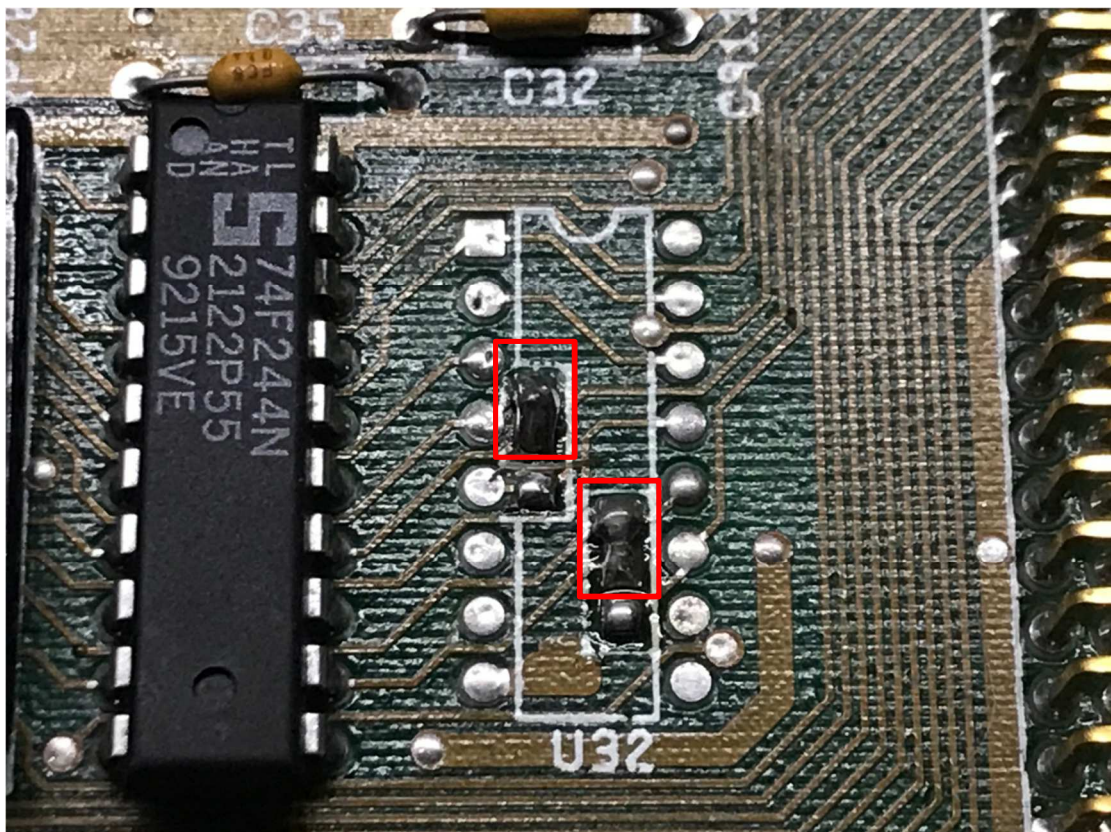
**DISCLAIMER :**

- **Before any soldering inside computer; POWER OFF COMPUTER**
- **Disconnect all devices**
- **Use professional tools without any risk or possible harm to You**
- **If You are not sure what to do – go to PROF ! Do not solder on Your own.**
- **If You haven't understood below pinouts – also visit PROF technician !**

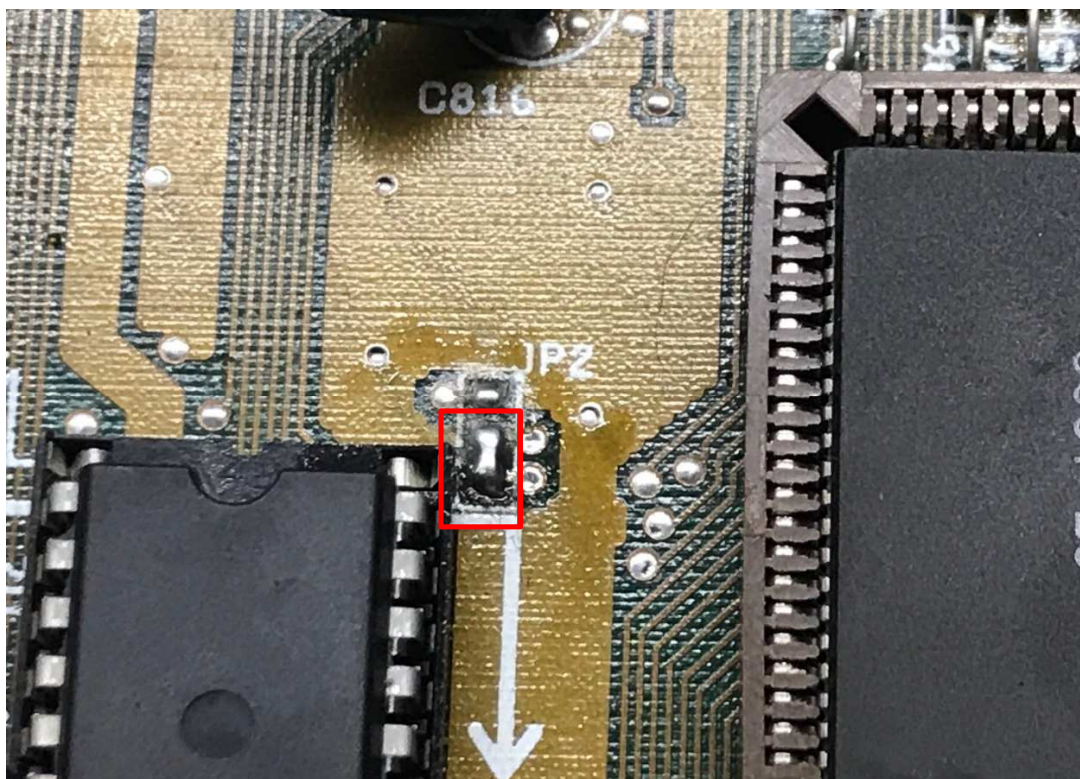
1. Desolder RAM CHIPS U20, U21, U22 i U23 and capacitors next to them
2. Solder RAM EXPANSION back to motherboard (cannot be done wrong...3 pins TOP)
3. Remove JP3 JUMPERS



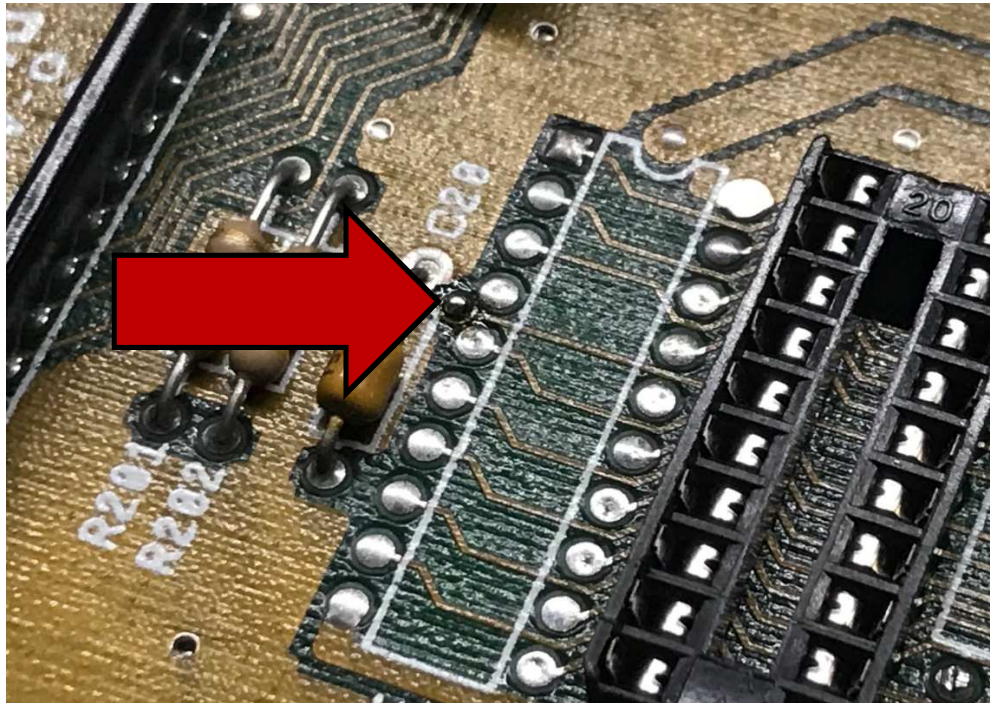
4. Set U32 jumpers in TOP POSITION



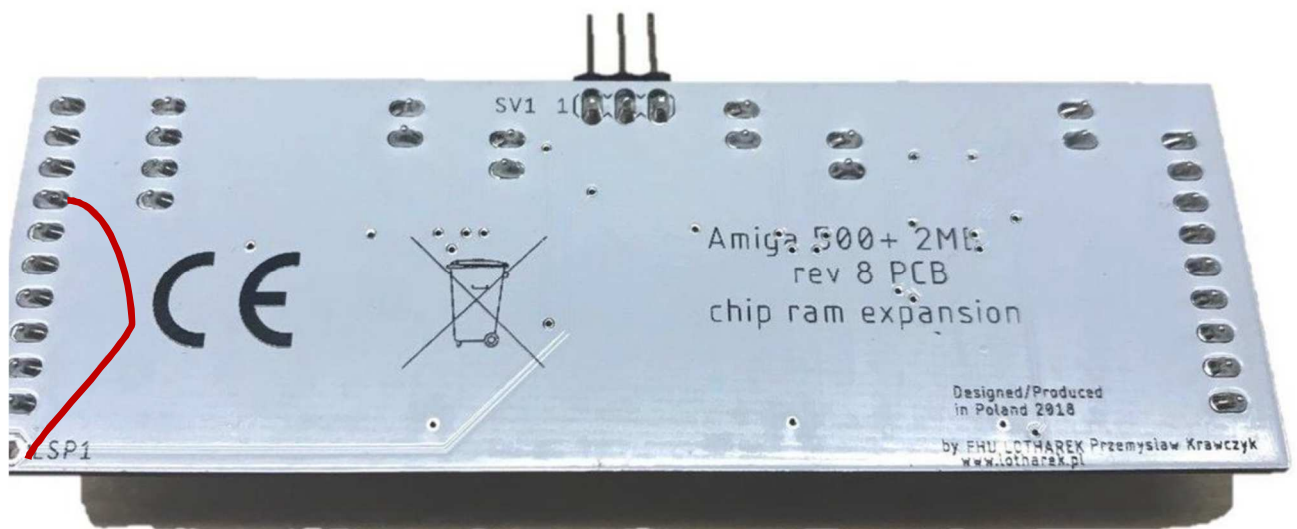
5. Set JP2 jumper in LOWER POSITION



6. Connect LSP pad at MEMORY MODULE with wire to below POINT

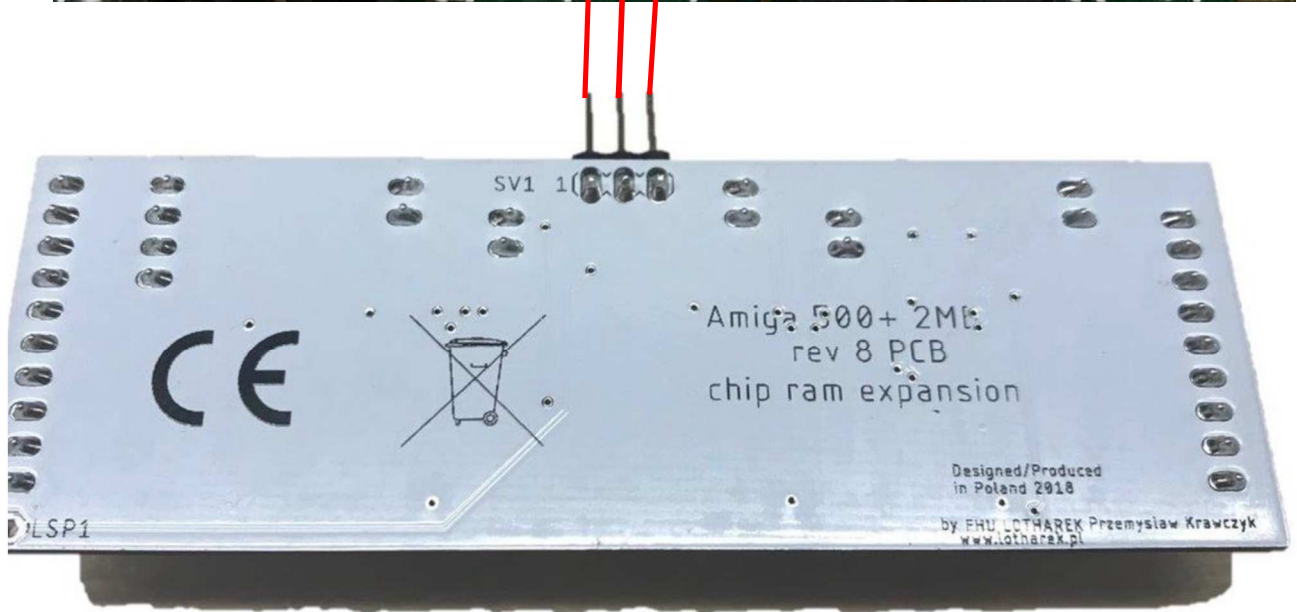
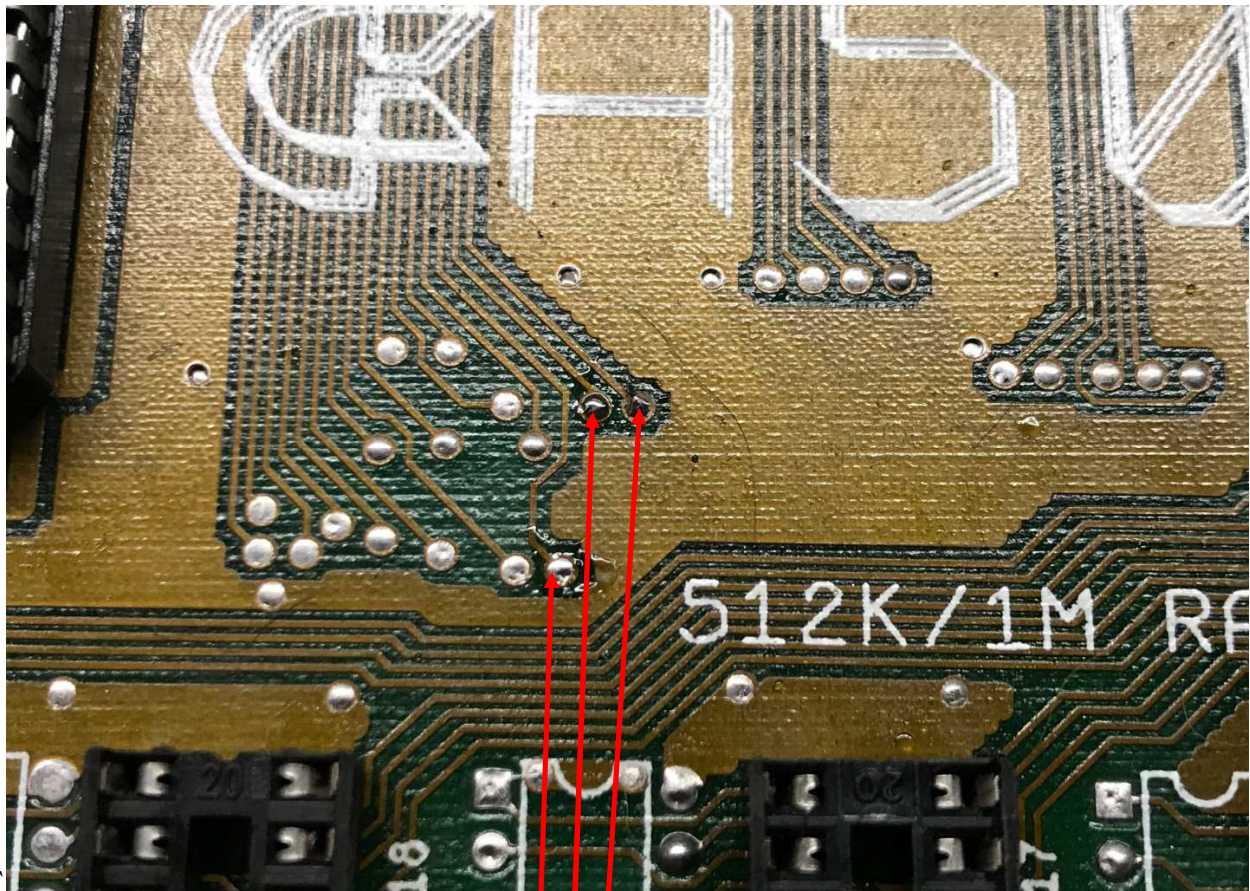


.....Or connect LSP like below:



/ I have made small mistake designing board, apparently "RAS" signal is not equal to "ras" for my software. Thanks, Eagle 😊 In revision 2 this bug will be corrected.

7. Make 3 wire connections to MEMORY ADAPTER



READY 😊 if all steps done correctly, AMIGA has now 2MB of CHIP RAM