

Wicher 508i

11MB SDRAM, IDE, I2C Controller



USER GUIDE

Version 1.0

Overview

Wicher 508i card has been designed for the Amiga 500/500+ line of computers. It should be installed in the original CPU socket that is located on the Amiga's motherboard.

Wicher 508i provides 11 MB of additional SDRAM FAST RAM memory, IDE controller and the I2C controller. In order to properly support the IDE controller, Kickstart 2.05 (37.350) or newer is required. Recommended Kickstart version is 3.1 or newer.

In the Box

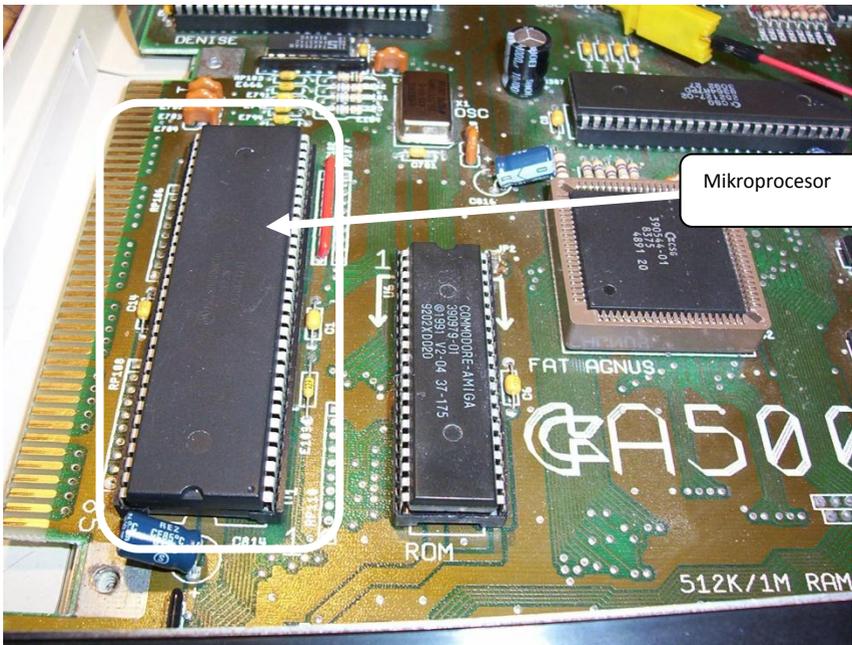
The complete package contains:

- **Wicher 508i** expansion card in the protective antistatic bag (the CPU is not included),
- Connection cables (2 pcs.)

Preparing Your Amiga

Any action regarding your Amiga's case disassembly should be performed with the computer being powered down.

Before installing **Wicher 508i** card one should remove Amiga 500/500+ case. Next the U1 chip (MC68000) should be located and removed from its socket. The operation should be performed very carefully, using adequate tooling.



Installing the CPU in Your Wicher 508i Card

Wicher 508i card supports the following processor models:
MC68HC000 in the PLCC-68 packaging.

The CPU should be installed in the socket located on the card, in the position indicated in the following picture.



Correctly installed MC68000 chip

CAUTION!!!

Installation of the CPU should be performed in accordance with the markings visible on the socket and the chip itself. Incorrect installation may result in damaging the CPU, the card or the computer.

Wicher 508i Card Installation

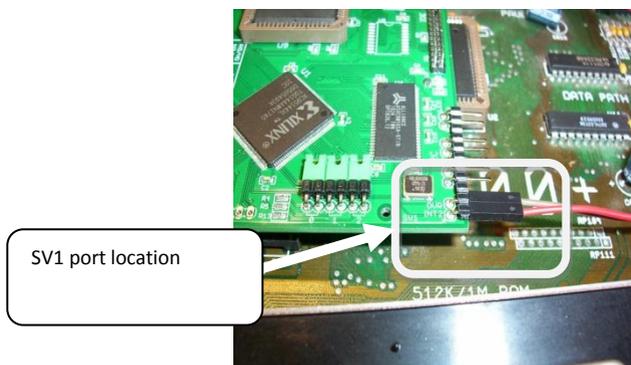
Installation of the card should always be performed with the Amiga being powered down.

Wicher 508i card has been designed for installation inside the Amiga 500/500+ computer.

After removing the original MC68000 CPU, one can start the proper **Wicher 508i** card installation. In order to carry it out, the pins found at the bottom side of the card, should be carefully inserted into the U1 chip socket, and then the card should be gently pressed, until it seats firmly.

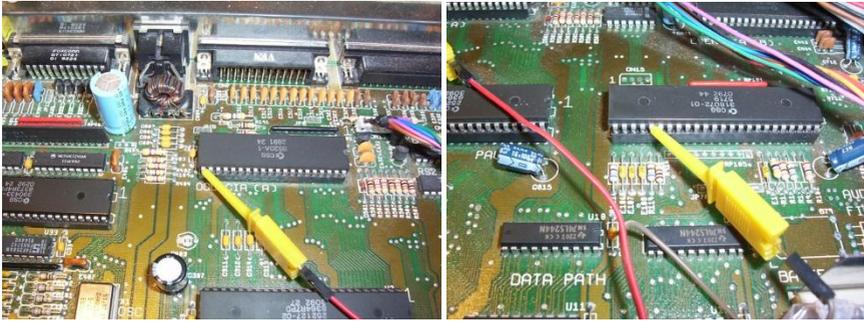


As the next step, one should connect the two provided cables to the card's SV1 port, following the instructions presented below.



Lokalizacja gniazda SV1 znajduje się na poniższym obrazku.

The **INT2** signal of the SV1 port should be connected to the 21st pin of the U7 (ODD CIA A) chip, whereas the **OVR** signal of the SV1 port should be connected to the 29th pin of the U5 (Gary) chip. Both of the aforementioned U7 and U5 chips should be easy to locate on Amiga's motherboard.



Correctly connected signal cables

CAUTION!!!

Please take special care when installing the PCB board and connecting the signal cables. Incorrect installation may result in damaging the computer or the turbo card.

When **Wicher 508i** card is properly installed, you can finally put it through its paces.



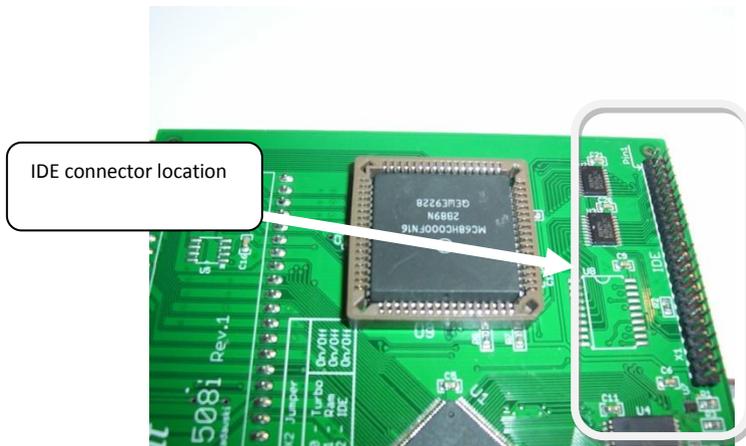
X2 Jumper Settings



Position 0 – enable / disable turbo card
Position 1 – enable / disable RAM
Position 2 – enable / disable IDE controller

IDE Device Installation

Wicher 508i's built-in IDE controller uses the IDE44 port that is compatible with devices such as hard drives and IDE-CF/IDE-SD adapters. When installing any IDE device, please ensure the correct orientation of the pin no. 1 by following the labeling on the Wicher 508i card.



More information on **Wicher 508i** and other **7-bit** products can be found on our website, available at: <https://7-bit.pl>



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