



Scandy - Scandoubler A1200 internal

Operating Instructions

Thank you for purchasing the MicroniK internal Scandoubler, which is suitable for all A1200 motherboards.

The Scandoubler doubles the 15.6 kHz to 31 kHz so that you are able to display PAL HighRes on a VGA-monitor. You can therefore display all of the Amiga display modes at a suitable multisync VGA-Monitor. For the "Super 72" mode you will need a monitor with a horizontal scan rate of at least 24 kHz and the for the mode "A2024" you will need a special monitor. For further information please refer to your Amiga manual.

Before start, disconnect your computer PSU and all external cable connections such as the monitor, mouse, modem, printer and so on. Please ensure that you have a clear workspace and enough room for the installation.

If you have a infinitiv Tower:

Open the infinitiv tower according to you manual. Disconnect all cables (remember the polarity of the cable), add-on cards and slide out the mainboard carrier-frame. Move the mainboard carrier-frame with the Zorro board (if there is one attached) to your work desk and disconnect it from the maninboard.

If you have a desktop A1200:

Caution: Before open your A1200 you should know that this operation means the loss of warranty.

Put the A1200 upside-down with the keyboard pointing to the bottom, so that you can see the air vents. Unscrew the 8 screws with a philips crew-driver, taking note of the location: 3 screws (remember the location) close to the air vents (the screw in the middle i covered by the warranty seal, which will have to be removed first) and 5 remaining screws on the case bottom. Now carefully turn over the A1200 so that the space bar points towards you. You can fold back the top of the case. Please pay attention to the cables that lead from the mainboard to the LED board on top of the case.

Removal of the Keyboard, Floppy and Hard disk drive:

You can see a thin green transparent foil cable, which leads from the mainboard to the keyboard. This foil cable is fixed with a white plastic clip. To take out the foil cable the holding mechanism has to be loosened as follows: Carefully raise the clip with a small flat screw-driver on both sides, until you can easily pull out the green foil cable.

Now unplug the power cable and the short grey data cable (remember the polarity) from the floppy drive. The floppy drive is fixed with a screw and a metal square. Remove the screw so that you can easily remove the floppy drive. Finally, unplug the LED-, Power- and the floppy data cable from the mainboard (remember the polarity).

Notice: Should there be a hard drive installed, you will also have to remove this. To do so, you need to carefully remove the hard drive and unplug the short grey cable (remember the polarity) from the mainboard.

Removal of the shielding:

Caution ! Please be careful of the sharp edges on the shielding !

Unscrew the single screw at the bottom of the shielding and pull of the metal clip on the lower left hand side. Gently bend the 9 metal flaps upward with a flat screw-driver and raise them with small pliers before pulling out the entire shielding. The shielding cover is not needed anymore. Lastly bend all metal flaps downward.

Installation of the Scandoubler:

Please avoid touching the main board to protect the electronic components from damage by possible electrostatic discharge (ESD). It is wise to wear an anti static wristband.

The sockets boards of the Scandoubler and the chips on the mainboard are labelled (for example U7) and also marked by a shaped edge that must be aligned when you plug the sockets boards onto the chip.

Notice: Possible soldering connections on the chips and cables bridges on the mainboard can cause problems when mounting the sockets boards.

First plug the socket board U4 onto the ship U4 on the mainboard. The entire cable from the socket board should face in the direction of the expansion board. Now mount the socket board U7 onto the chip U7 on the mainboard. Finally, plug the socket board U8 onto chip U8 on the mainboard. See the drawing for the location of the chips.



Should there already a socket board on the chip U8 (from the Floppy Adaptor), unplug the socket board U8 from the Scandoubler and plug the connector onto the socket board from the Floppy Adaptor. The missing pin on the adaptor board and the missing pin from the connector are must be aligned (see drawing).

Please check all connections for correct fitting and alignment.

Mounting of the VGA-Connector:

On the mainboard carrier-frame of the infinitiv Tower with the Logo "**powered by AMIGA**", you will find a space where you can mount the VGA connector. Before that you need to brake (cut) off the little plastic cover and place the connector in the gap and secure it with the supplied screws.

For the original A1200 (desktop) you need to connect the VGA connector using the supplied slot bezel. Put the slot bezel with the VGA connector in the appropriate place on the right hand side of the A1200.

Closing the Amiga:

Rebuild everything in reverse order, leaving out the metal shielding and reconnect all cables. Now you can connect the VGA-Monitor to the VGA connector.

MicroniK Computer-Service Brückenstrasse 2 D - 51379 Leverkusen - Germany

Phone: +49 - (0)2171 - 72450 Fax: +49 - (0)2171-724590

E-Mail: <u>Amiga-Support@micronik.de</u> Internet: <u>www.micronik.de</u>

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