



Service **MA** *nual*

*Exchanging the Mainboard
grandMA Light up to S/N 697*

English

Exchanging the Main Board

The following work must be performed of trained and qualified personal only! Disobeying the instructions and/or the prescribed work flow can severely damage the device. This manual is intended as supportive means for trained and qualified personnel.

Depending on how the console is equipped, further work may be necessary.

The DFI-Mainboard is a substitute for mainboards of consoles with S/N up to 697. Don't use the DFI Mainboard for consoles with S/N higher than 698.

All consoles must be equipped with the 100Mbit UpgradeKit. You can recognize this version by the network adapter location - the plug-in card is inserted into the slot on the back side.



If this ethernet connection is not in place:

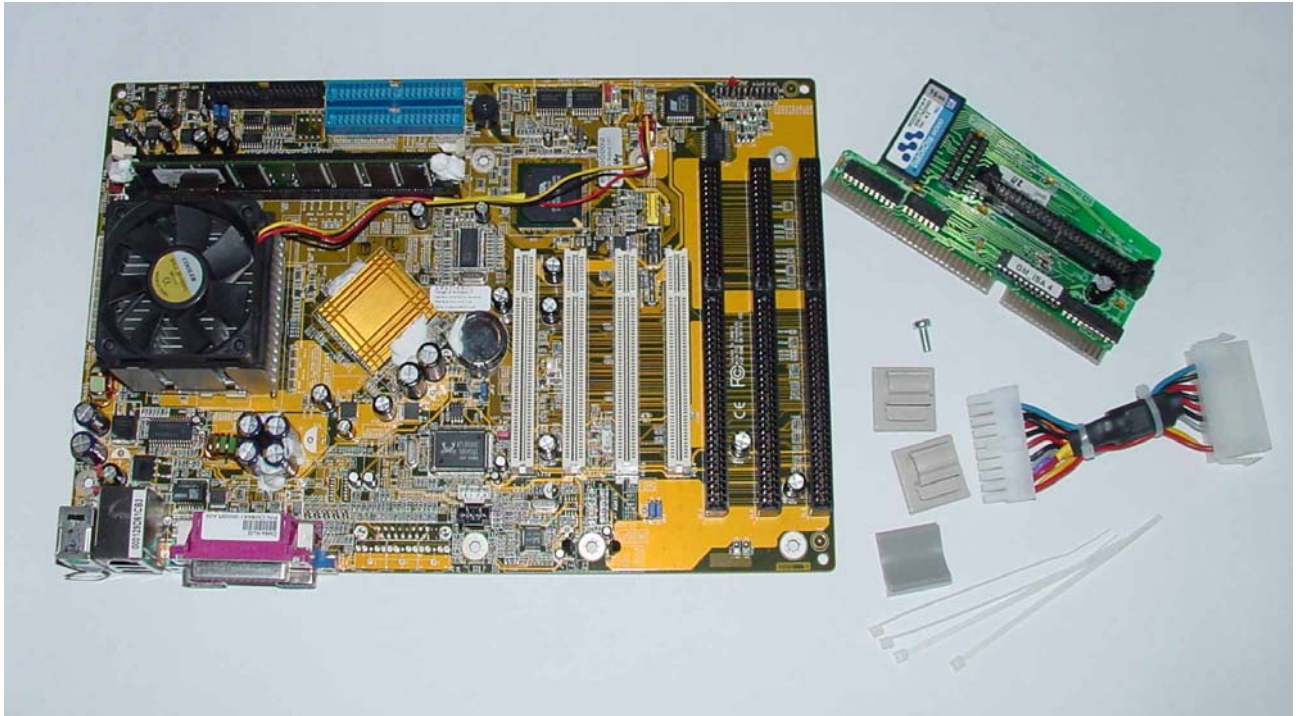
First, you have to install the 100Mbit upgrade and remove the network adapter. Then, you can exchange the main board. Please contact your distributor or - if the technical prerequisites are given - install the UpgradeKit yourself. A special instruction is added to the kit.

Exchanging the Main Board

Included in the delivery are:

- Main board
- Adapter cable
- ISA FLASH card
- Mounting material (cable ties and adhesive pads)
- M4 x 6 screw - must be exchanged with the inner screw of the battery bracket, if the existing screw would touch the mainboard

Please make sure that all parts are intact and show no exterior signs of damage.

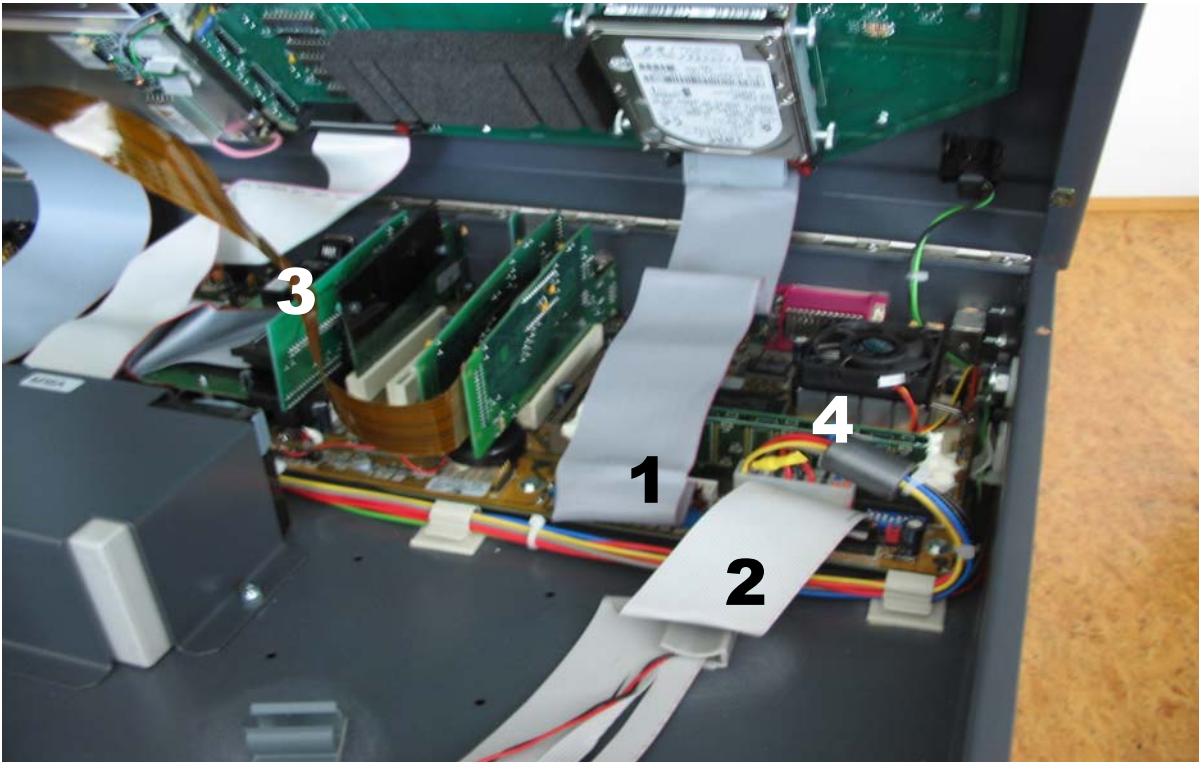


Removing the old Main Board:

- Disconnect the console from the mains supply.
Remove the connecting screws between lid and bottom section, bottom to top and around the whole device.
- Carefully tilt the lid upwards and lock it using the red rod.
Important: Do not tilt further than 90°! This could damage the sockets on the rear side of the device.
- Remove all Sub-D-bolts on the back side of the console.(except the Remote Control Plug)
- Remove the crosshead screw and the nylon nut of the network card



- Remove the ribbon cable between the main board and the hard drives (1)
- Remove the ribbon cable between the main board and the floppy (2)
- Remove the ribbon cable to the ISA FLASH card (3)
- Pull off the supply plug from the main board. (4)
- **Important: The display adapters may only be inserted into or pulled out from a removed PC ATX board. Do not disconnect the cable connection to the adapter!**



- Remove the 6 screws of the Main Board
- Remove the Main Board a little
- Now pull out the display adapters. **Do not disconnect the cable connection to the adapter!**
- Now remove the Main Board
- Remove the 2 adhesive cable clamps
- Remove the 4 screws of the battery bracket and move the battery so that you can place the new main board (its a little bit larger)



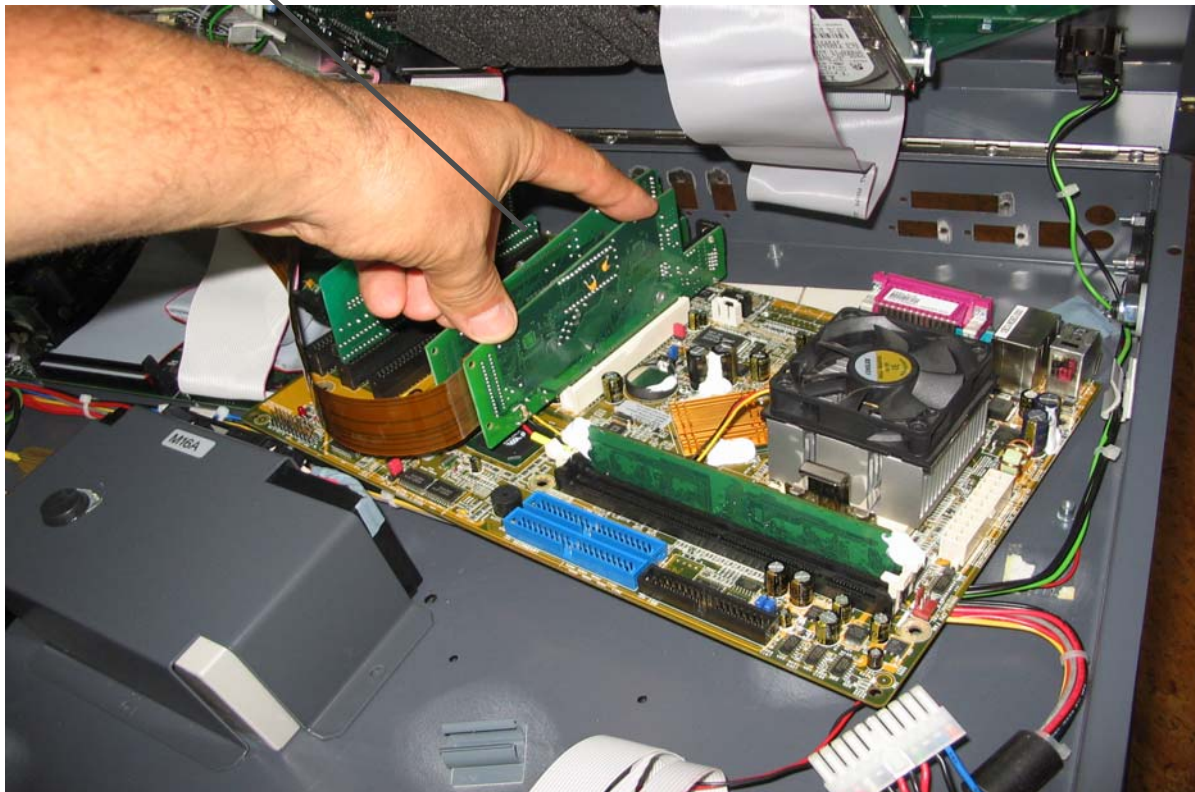
Preparing the new Main Board:

Note: Degrease all plug-in contacts using a cleaning spray and after that apply a short burst of DeoxIT GOLD. Both, cleaner and conditioner, are available from your distributor.

- Exchange the existing ISA FLASH card for the supplied ISA FLASH card. Re-use the old cables.

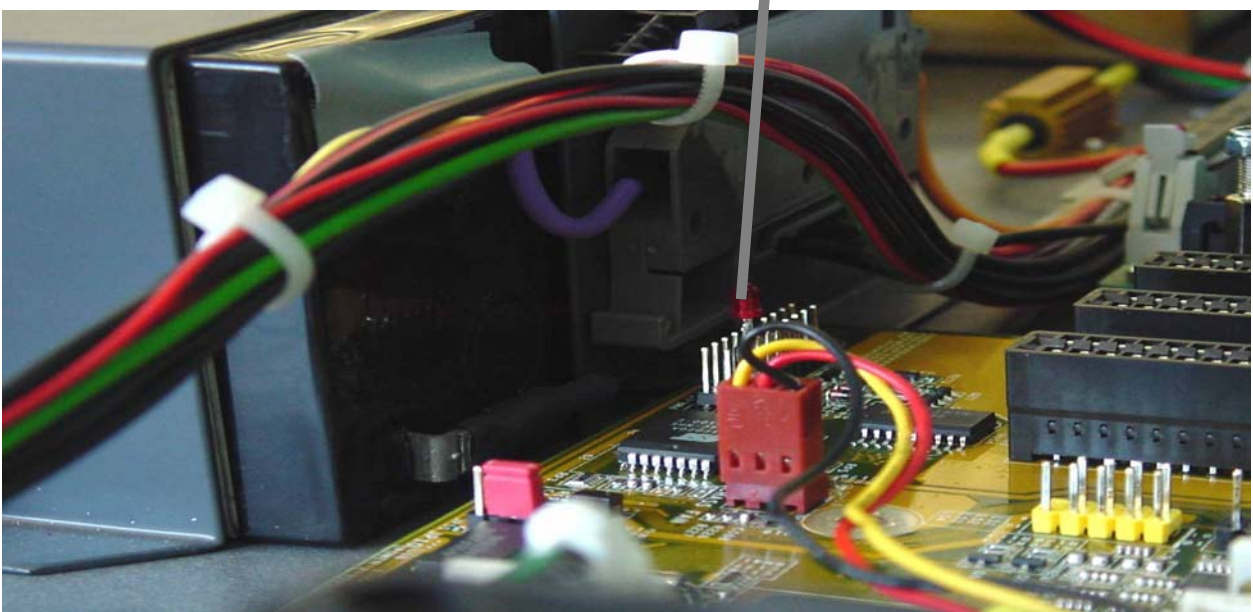
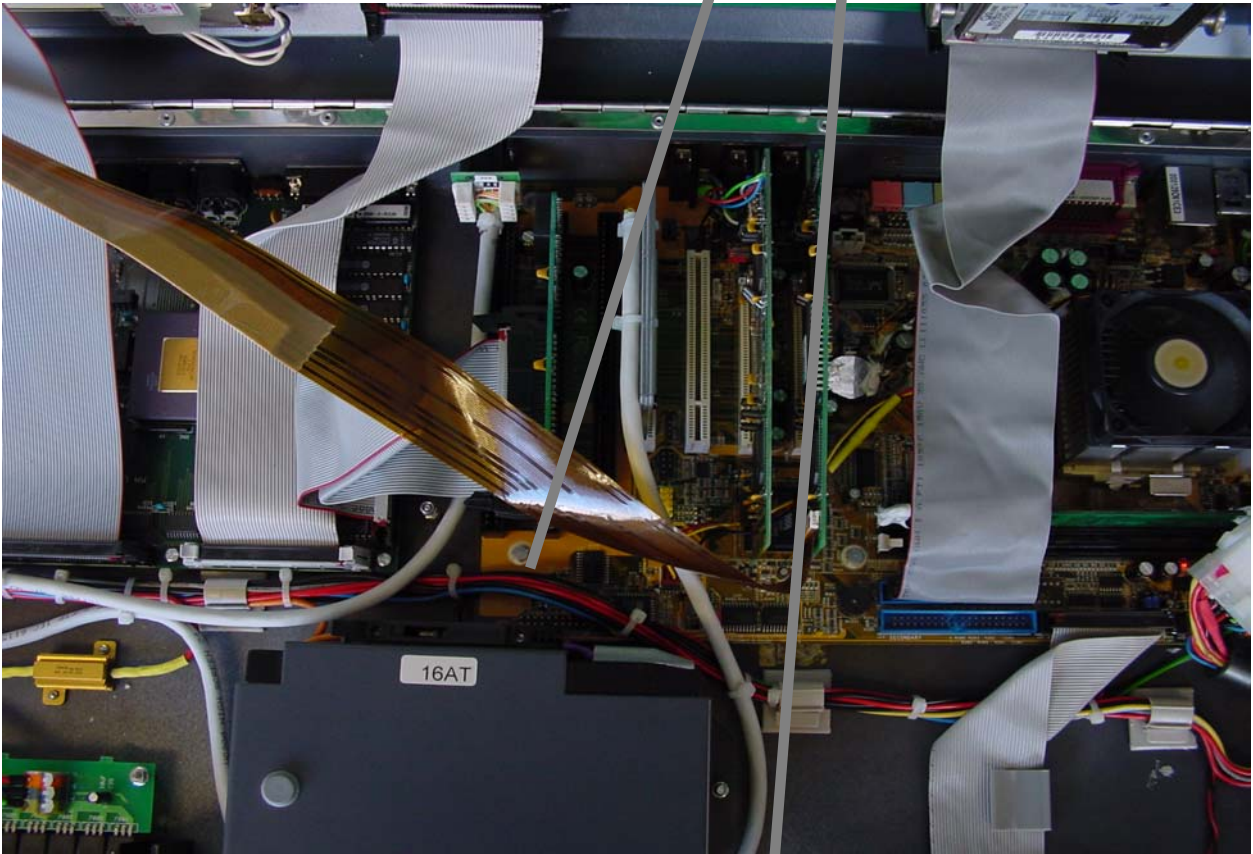
Installing the new Main Board:

- Insert the display adapters.
The main board is not in its final position!

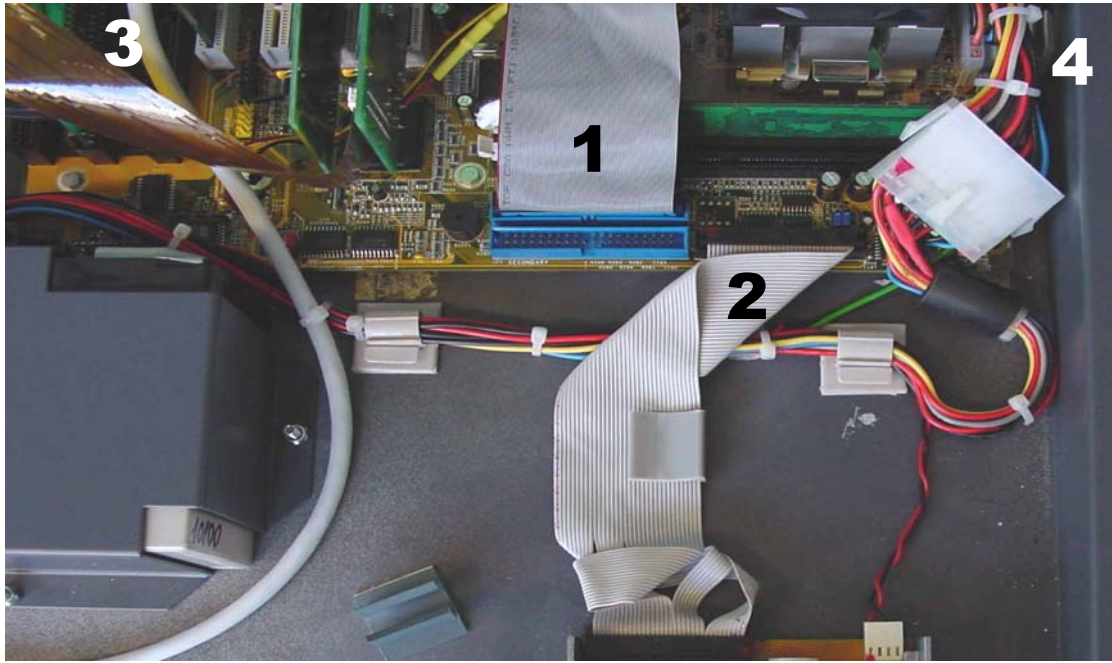


- Set the main board onto the fastening bolts and lightly screw in the 6 screws, **do not tighten them, as otherwise the main board could warp when tightening the Sub D bolts.!**
- Fasten the screw bolts (sub D bolts) of the socket ports.
- After this, tighten the 6 screws of the main board.
- Tighten the battery bracket - in case of contact between the mainboard and the inner screw of the battery bracket, exchange this screw with the delivered M4 x 10 screw

- Place the 2 adhesive cable clamps, so that the main board (it is a little bit larger than the old one) does not touch the cables.



- Insert the hard disk ribbon cable into the inner slot! (primary - see photo above) (1)
- Connect the floppy (2)
- Connect the eISA flash card (3)
- Insert the adapter between the old plug and the main board and fasten it on the harness using cable ties. (4)
- Insert the support bar and close the cover lid. Don't bruise the cables when closing the cover. See to that when closing the cover lid! Tighten the screws.



NOTE: When switching the device on, you can hear a 'click' of the DFI main board - this is normal, no panic.

NOTE:

At some consoles it is necessary to turn the fan at 90° - the power supply is too short.

