

# 1 Maintenance inside the Scorpion

The following sections describe how to open up the console for maintenance purposes.

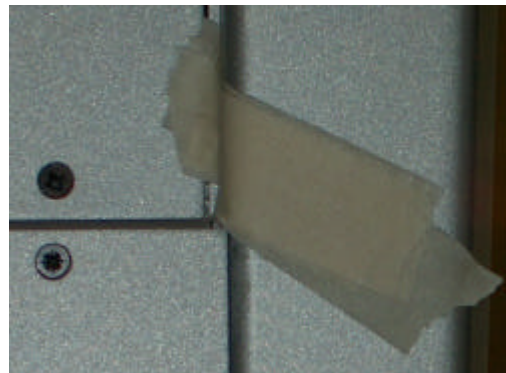
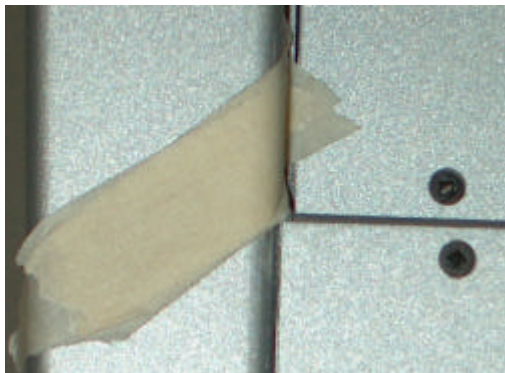
Warning: Only let qualified personnel work inside the console.

## 1.1 Removing the faderpanel from the scorpion.

By removing the faderpanel from the scorpion it's possible to do maintenance inside the console. In this section we will show you with help from some pictures how to safely open up the scorpion to work on the inside of the console.

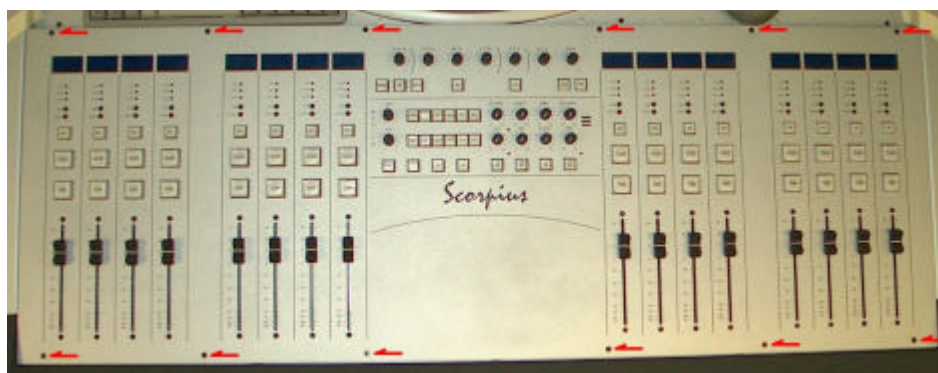
### Step one:

To prevent damage to the chassis there are two marked points that you have to protect with some tape.



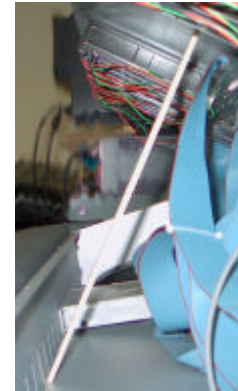
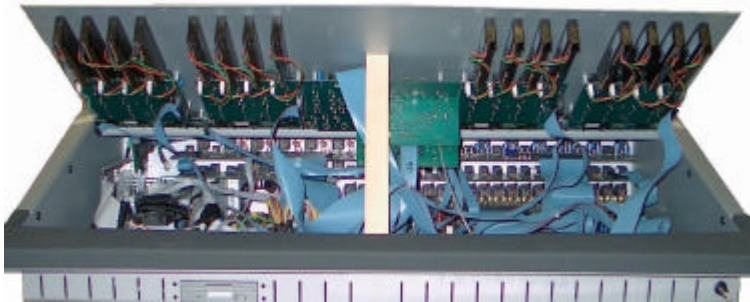
### Step two:

Remove the 12 marked screws from the faderpanel.



Step three:

Carefully lift the faderpanel from the front like the hood of a car. Use a  $\pm 30\text{cm}$  long bar to support the faderpanel. Preferably made from soft material like wood or plastic to prevent damage to the faderpanel.

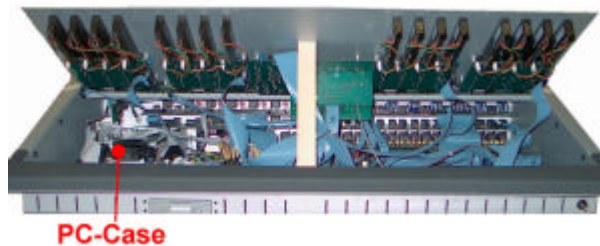


In this state you can still work with the console. This is necessary when you are for example upgrading software from a CDROM.

In this section we will identify the equipment located inside the console.

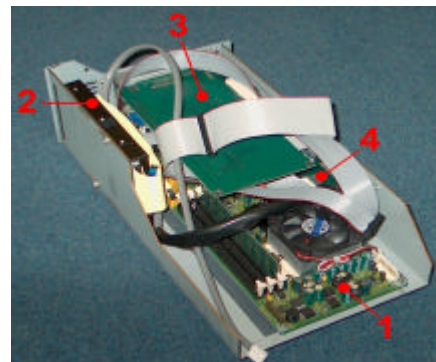
## 1.2 PC-Case

The PC-case is located on the left side of the console.



Inside the PC-case you can find the following parts.

- 1) Single Board Computer – Complete PC solution on one PCB
- 2) Harddrive – Necessary for the storage of the software
- 3) PCI-board – Equipped with the DSP from Texas Instruments for the processing of the audiosignals
- 4) Backpanel – Extension for the Singleboard Computer. Equipped with two PCI-slots.



### 1.2.1 Removing the PC-Case

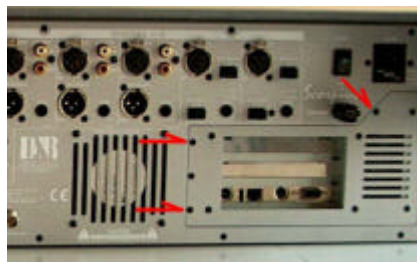
For maintenance purposes like the exchanging the harddrive it's necessary to remove the PC case from the console. In this chapter is described how to remove the PC case from the Scorpius console.

#### Step one:

Remove the faderpanel from the console. See section 1.

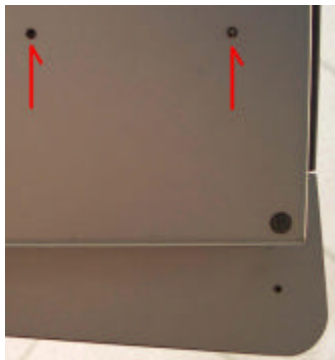
#### Step two:

Remove the following screws from the rear of the console.



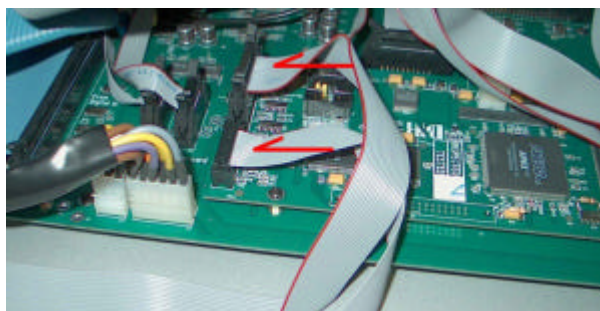
#### Step three:

Remove the following screws from the bottomside of the console.



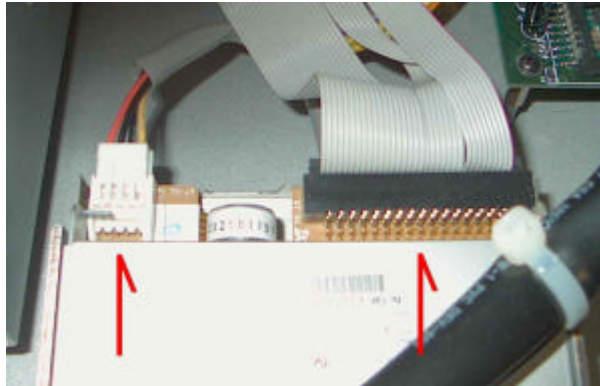
#### Step four:

Remove the flatcables from the PLD Module.



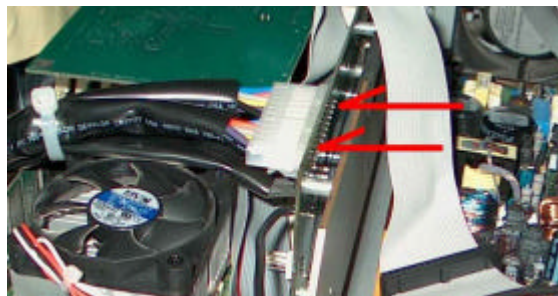
**Step five:**

Remove the floppy-drive cable and the floppy powersupply cable.



**Step six:**

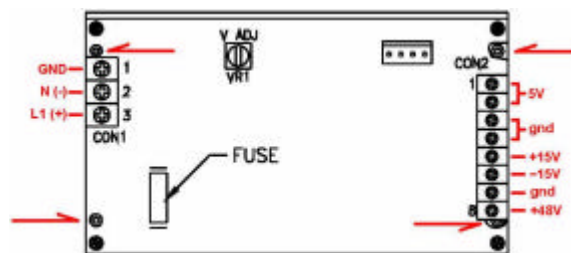
Disconnect the powercords to the PCI backpanel.



All the cables are now disconnected from the PC-case. You can now carefully remove the PC-case from the console.

### 1.3 Powersupply

The powersupply used is the PPS150 or the PPS180 from PUT Powertech (<http://www.putpowertech.com/>). The wiring of the powersupply is showed in the next picture.



On the place of the arrows are the mountingholes of the powersupply. On the bottomsides of the console you can see the four screws which hold the powersupply on it's place.



## 1.4 PCB placement inside the console

In the next pictures you can see all the different kind of PCB's with there names

