# Classroom One Disassembly and Assembly Guide

<u>**Classroom One Disassembly and Assembly Guide**</u>

Note: Due to it's weight, all disassembly an assembly of the Classroom One must be carried out with the unit stood up right on it's base.

<u>**LCD Screen Module Removal**</u>

1. Remove 2 x Security Screws from LCD Screen Module/Hinge Cover Panel, **(Fig 1)**. Screen Module/Hinge Cover removed, **(Fig's 2)**.

<u>**Fig 1**</u>

LCD Screen Module/Hinge
Cover Panel Security Screws
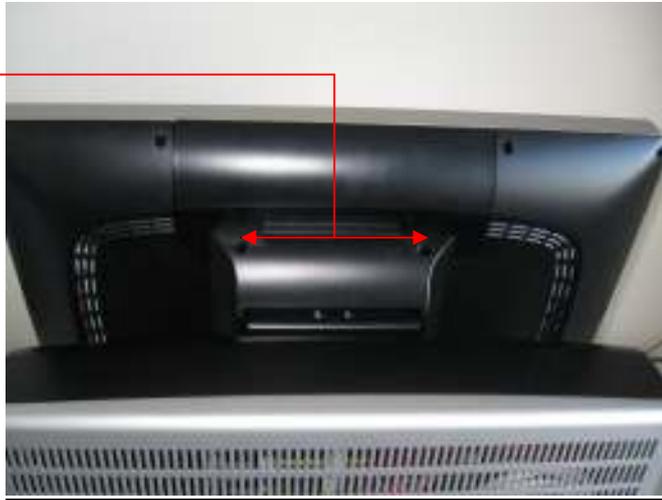
<u>**Fig 2**</u>

LCD Screen Module/Hinge
Cover Panel Removed

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**LCD Screen Module Removal**
.
2.  Disconnect Audio, VGA and USB Cables from LCD Screen I/O panel. Note the USB Port used for re-assembly, **(Fig 3)**.

**Fig 3**
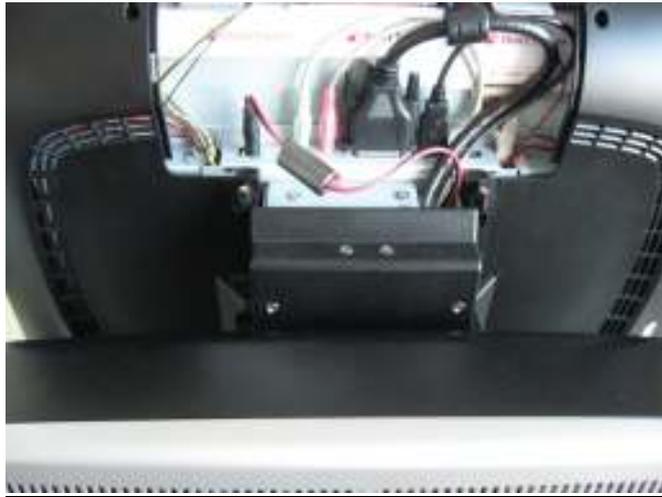


3.  Remove 2 x Security Screws from the LCD Screen Hinge Plate, **Fig 4.**

**Fig 4**

LCD Screen Module/Hinge
Security Screws
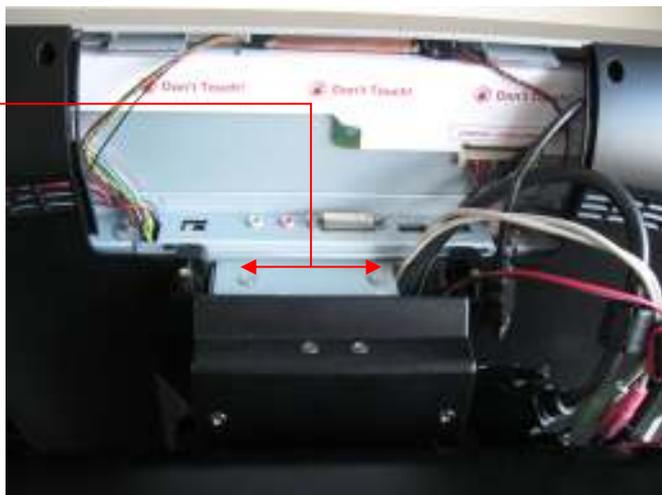
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**LCD Screen Module Removal**

4. LCD Screen Module removed from Base Unit, **Fig 5**. Please note the use of foam to protect the LCD Screen**.** Reverse this procedure for re-assembly.

**Fig 5**

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**Internal Module Access and Replacement**

5.  Cave Door and Rear Cover Panel Security Screw positions, **(Fig 6)**.

**Fig 6**
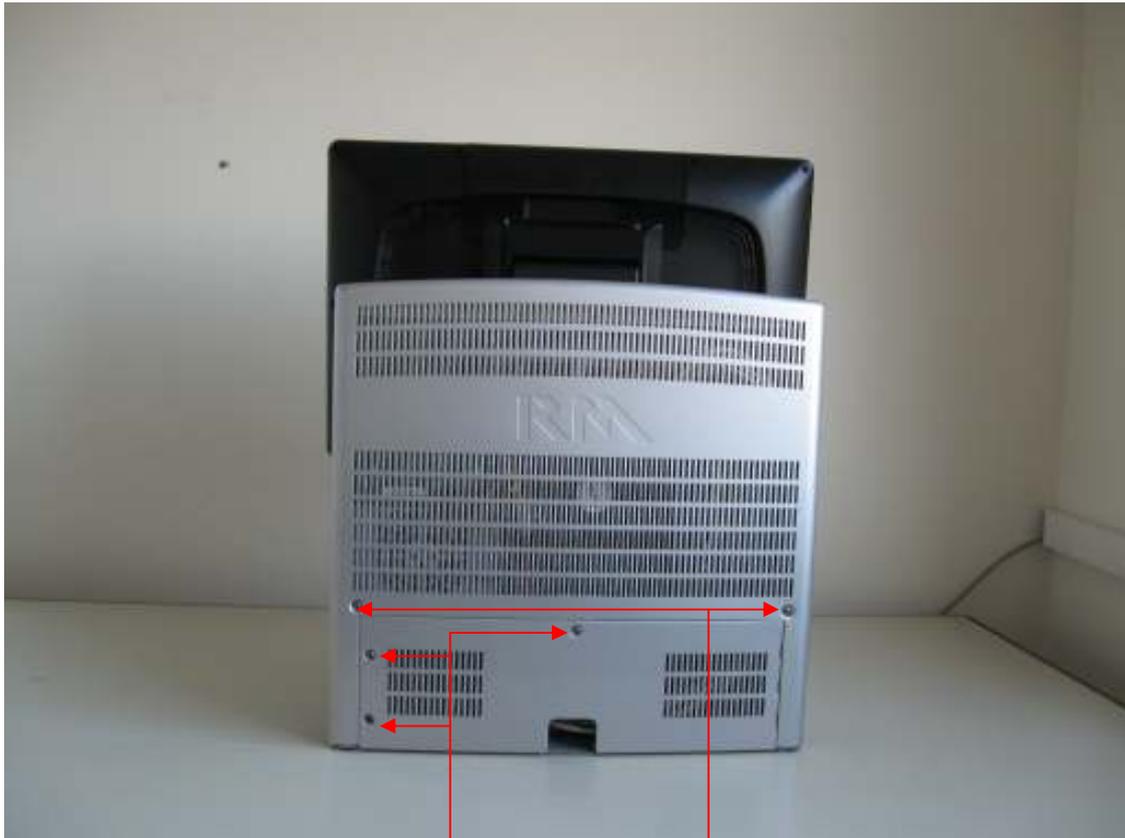


| Cave Door Security Screws | Rear Cover Panel Security Screws |

6.  Remove 3 x Security Screws from the Cave Door and 2 x Security Screws from the Rear Cover Panel, **(Fig 7)** and **(Fig 8)**. Remove Cave Door and Rear Cover Panel.

**Fig 7**
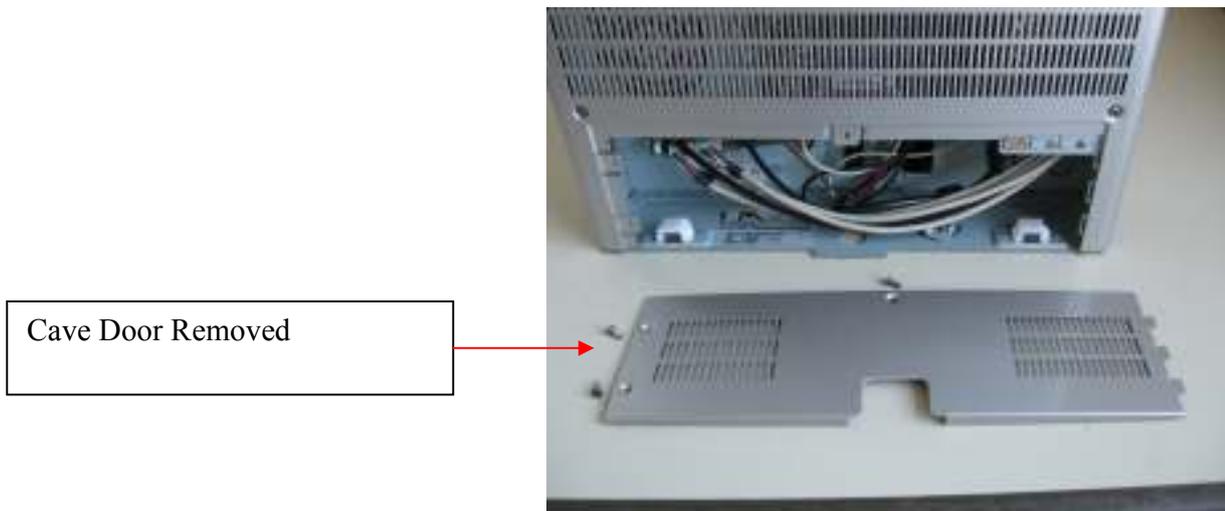


Cave Door Removed

**Fig 8**



Remove Rear Cover Panel Screws and lever Panel upwards using Flat Bladed Screwdriver
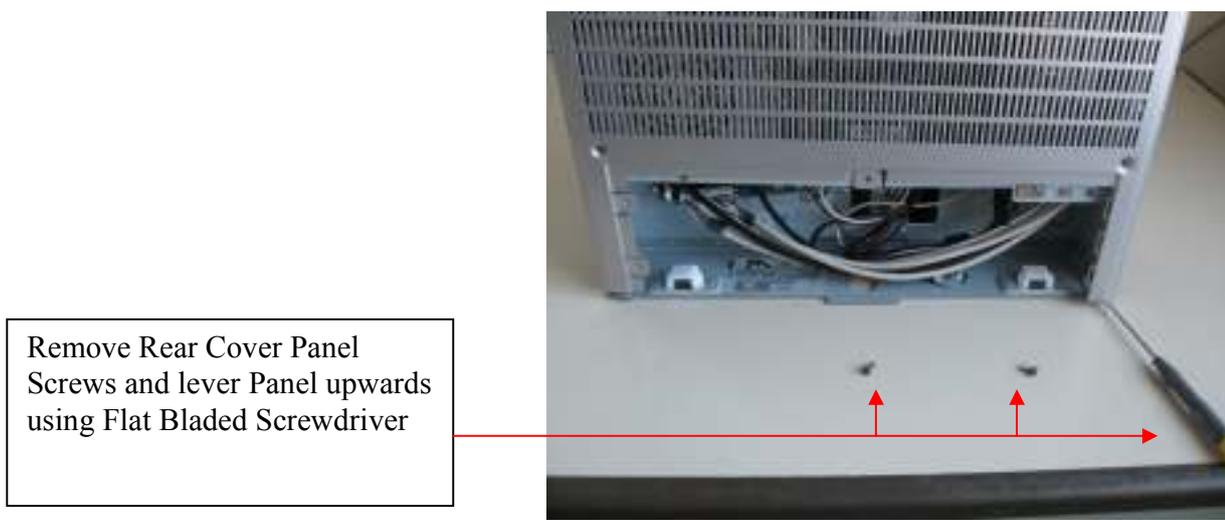
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**Internal Module Access and Replacement**

7. Rear Cover Panel removed (**Fig 9)** showing internal Module layout.

**Fig 9**

**Harddisk Removal and Replacement**

8. Remove Cave Door and Rear Cover Panel as described sections **Fig 6** through to **Fig 9.** The Harddisk will need to be removed in either of the following situations: Harddisk Replacement, PSU replacement and Optical Drive replacement. The Harddisk is secured to the Chassis by 3 x Phillips Screws, **(Fig 9)** and **(Fig 10)**.

**Fig 9**

Remove 1 of 3 x Phillips Screws

Remove SATA Data and Power Cables
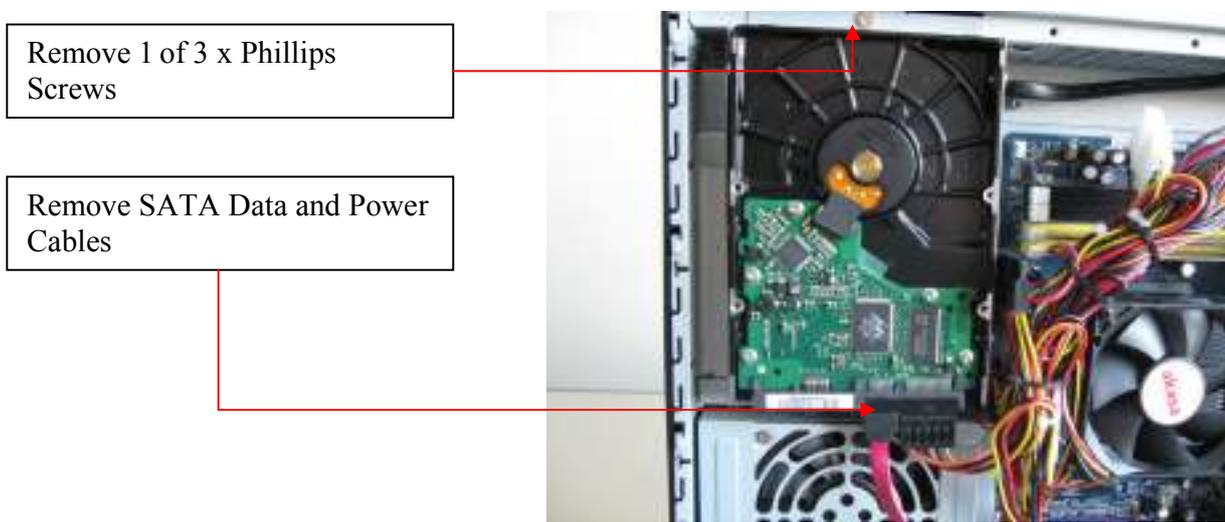


**Fig 10**
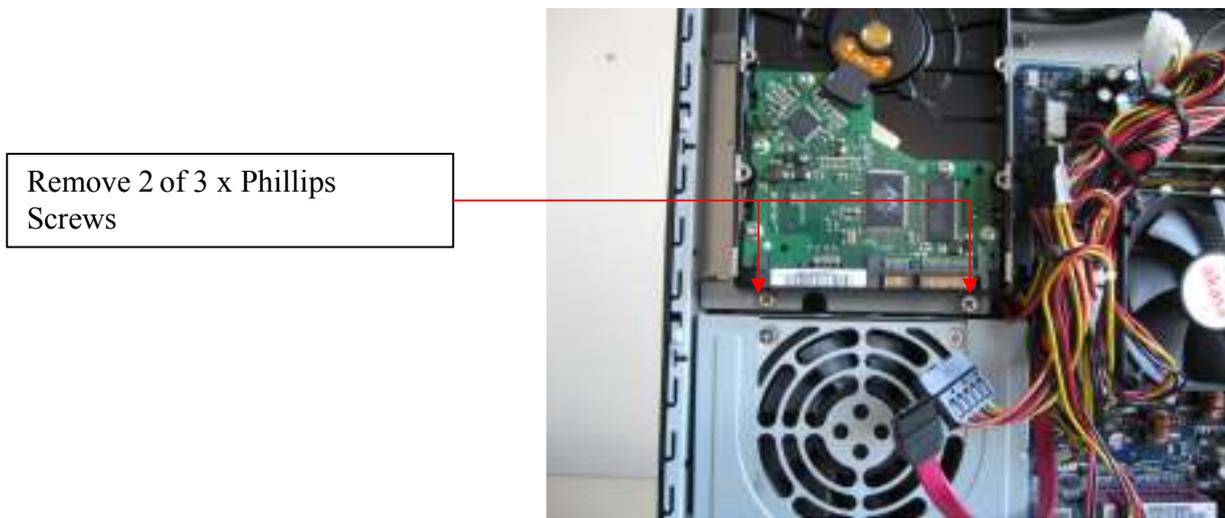
Remove 2 of 3 x Phillips Screws

**Harddisk Removal and Replacement**

9.  Harddisk removed from Chassis, picture shows drive inside drive cage. Release the drive from the cage by removing 2 x Phillips Screws from one side of the drive and un-hooking it from the other **(Fig 11)**. Replace Harddisk following this procedure in reverse.

**Fig 11**

**Optical Drive Removal and Replacement**

**10.** Remove Cave Door, Rear Cover Panel and Harddisk following this Procedure. Remove Phillips Screw securing Optical Drive Cage to Chassis and slide to the right removing Cage from securing lugs on Chassis, **(Fig 12)**

**Fig 12**

Remove 1 x Phillips Screw and slide out Cage to the right
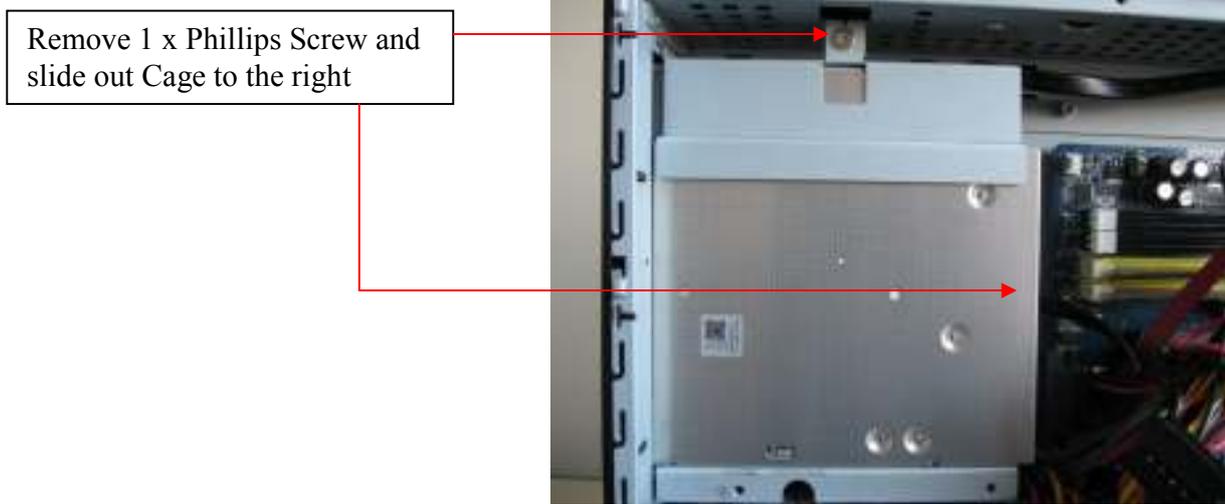


**11.** Optical Drive removed from Chassis. Picture shows drive inside drive cage. Release drive from cage by removal of 4 x Phillips Screws, two on each side of Cage, **(Fig 13)**. Replace Optical Drive following this procedure in reverse.

**Fig 13**

**Power Supply Removal and Replacement**

**12.** Remove Cave Door, Rear Cover Panel and Harddisk following this Procedure. Disconnect Cable Looms and remove 3 x Security Screws securing Power Supply to Chassis, **(Fig 14)**. Lift out Power Supply from Chassis, **(Fig 15).**

**Fig 14**

Remove 3 x Security Screws
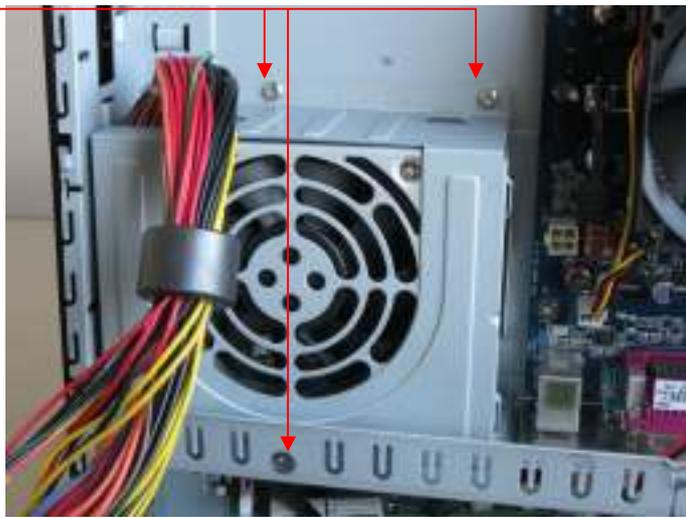


**Fig 15**

Power Supply removed from Chassis + Remove PSU from cage and refit to replacement PSU.

**Front USB, Firewire, Audio PCB Removal and Replacement**

13. Remove Cave Door, Rear Cover Panel following this Procedure. Remove 4 x Security Screws securing Front, Firewire, Audio PCB to Chassis, and disconnect Cable Looms **(Fig 16 and Fig 17)**. Lift out PCB from Chassis.

**Fig 16**



Front USB, Firewire, Audio PCB

**Fig 17**



Front USB, Firewire, Audio PCB removed from Chassis
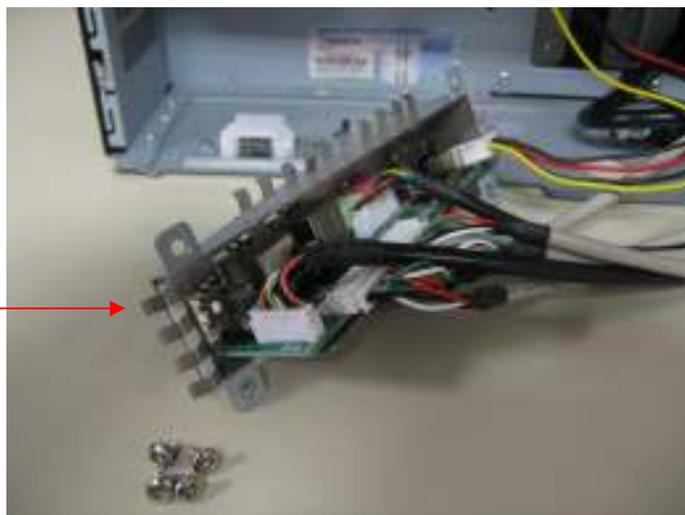
14. Remove Cave Door, Rear Cover Panel following this Procedure. Mainboard, CPU, Fan and Memory would be the same as any standard Desktop PC from this point.

**Fig 18**
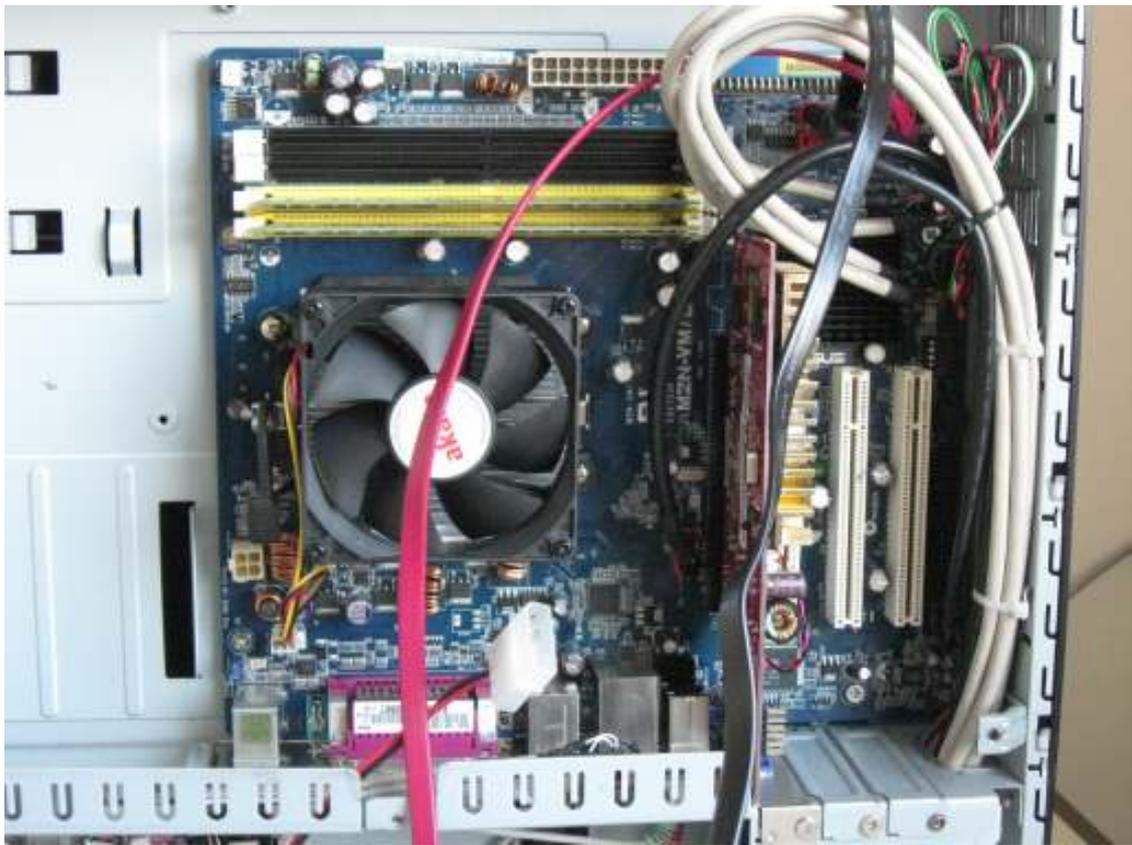
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**Hinge, Column and VGA USB Audio Cable Loom Removal and Replacement**

15. To remove Hinge, Column or Cable Loom first remove LCD Screen Module as described earlier in this Procedure. Then remove 6 Security Screws from Hinge Column Cover Panel and Hinge Plate, **(Fig 19 and 20)**.

**Fig 19**



Hinge Column Cover reverse side. Remove 4 x Security Screws

**Fig 20**



Hinge Column Cover front side. Remove 2 x Security Screws

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**Hinge, Column and VGA USB Audio Cable Loom Removal and Replacement**

16. Hinge Column Cover Panel and Hinge Plate removed, **(Fig 21 and 22)**.

**Fig 21**



**Fig 22**
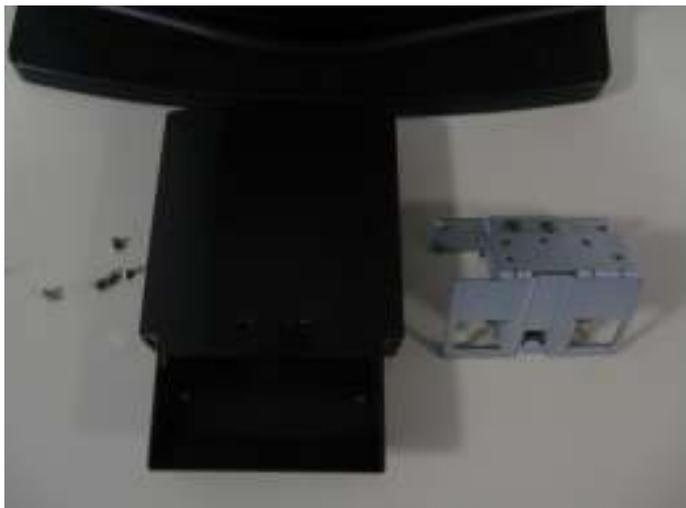
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**Hinge, Column and VGA USB Audio Cable Loom Removal and Replacement**

17. To remove Column, first remove the LCD Screen Module. Then remove Hinge Column Cover Panel, Hinge Plate, Cave Door and Rear Cover Panel as described earlier in this Procedure. The Column is secured to the Chassis using 2 x Phillips Screws and 4 x Security Screws.

**Fig 23**

Tie Rap needs to be removed when removing Hinge Column or Cable Loom
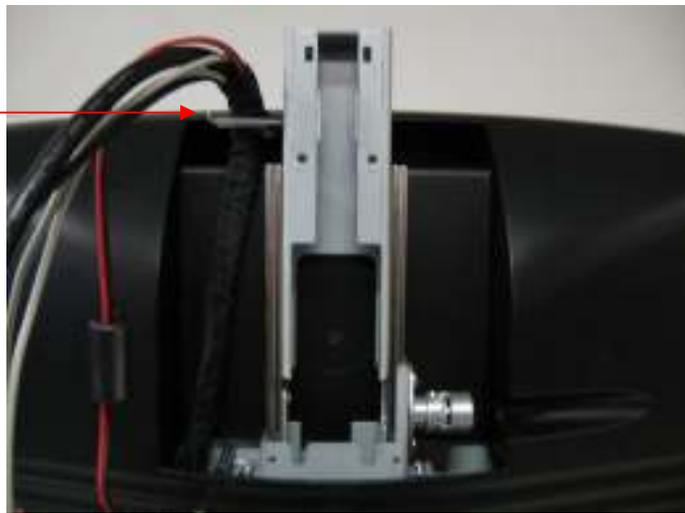
**Fig 24**

Remove 2 x Phillips Screws
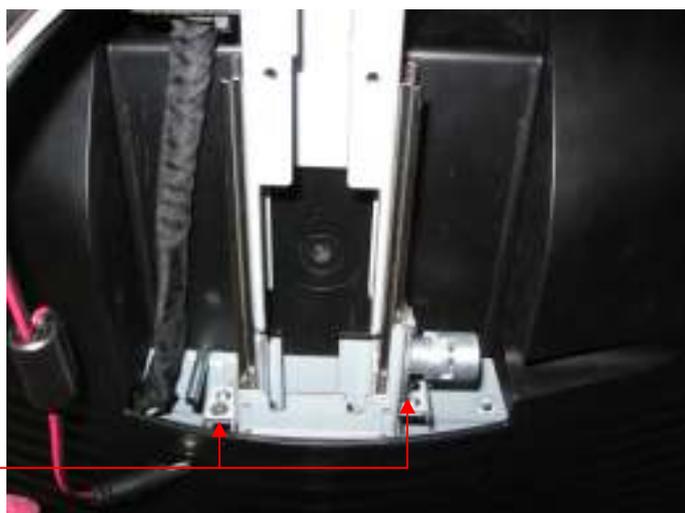
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**Hinge, Column and VGA USB Audio Cable Loom Removal and Replacement**

**Fig 25**



Remove Cave Door and Rear
Cover Panel and remove 4 x
Security Screws
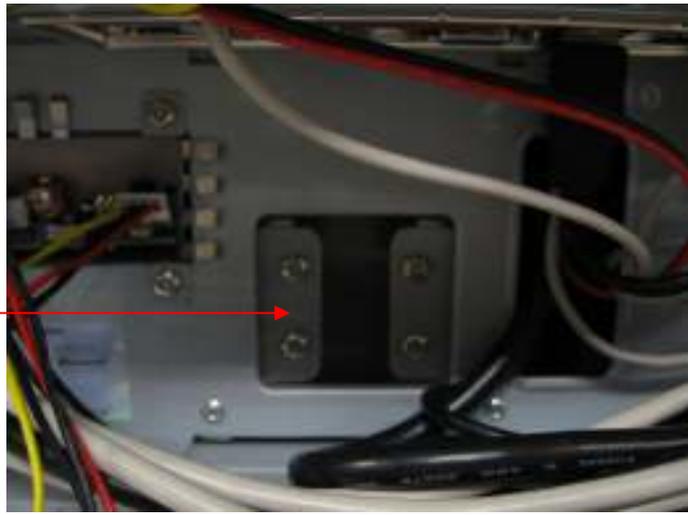
**Fig 26**



Column can now be remove by
pulling Column up and away
from Chassis

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**Hinge, Column and VGA USB Audio Cable Loom Removal and Replacement**

**Fig 27**



Column removed

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**Hinge, Column and VGA USB Audio Cable Loom Removal and Replacement**

18. To remove VGA USB Audio Cable, first remove the LCD Screen Module. Then remove Hinge Column Cover Panel, Hinge Plate, Column, Cave Door, Rear Cover Panel and Harddisk as described earlier in this Procedure.

**Fig 28**



Remove Front Panel. Remove 4 x Security Screws located in each corner of the Chassis. Picture shows Screw in top left corner behind Harddisk Cage

**Fig 29**



With the 4 Security Screws removed, start in the top right hand corner and gently remove the Front Panel from the Chassis

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**Hinge, Column and VGA USB Audio Cable Loom Removal and Replacement**

**Fig 30**



**Fig 31**

**Note** position of Tie Wraps and positioning of Cable around the Metal Pins. This is important as Cable can get stuck or damaged if not routed correctly. Remove Tie Wraps and Cable connections from Mainboard side of Chassis and remove Cable. Follow this procedure in reverse for re-assembly