

**ATTENTION:**

OBSERVE PRECAUTIONS FOR HANDLING ELECTROSTATIC DEVICES

**Removal/Installation of Major Assemblies -  
Ion Fusion**

**ECS Motherboard Removal**

1. Turn off and unplug the game.
2. Unlock and open the front bezel.
3. Loosen the screw on the hard drive support bracket and disconnect the hard drive ribbon cable. See Figure 1.

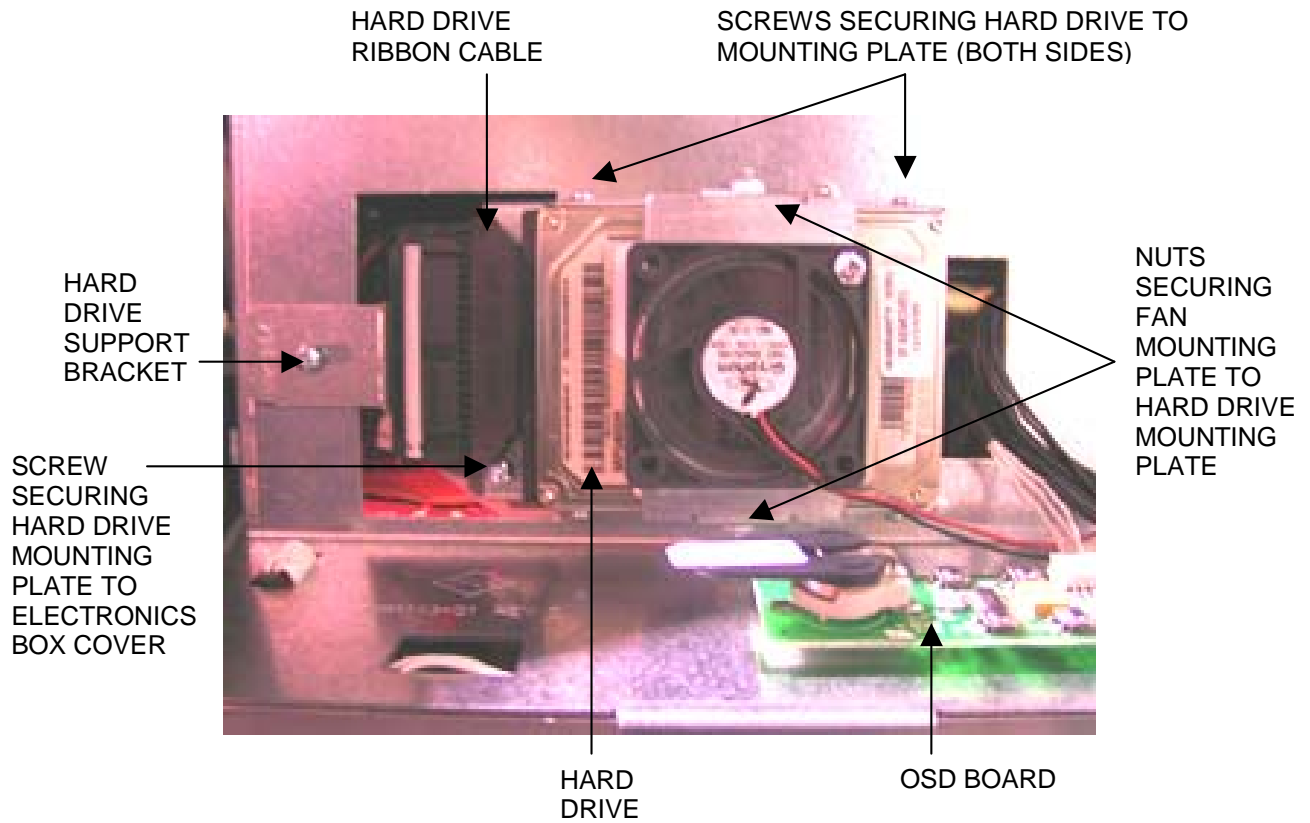


FIGURE 1 - HARD DRIVE ASSEMBLY ON ELECTRONICS BOX

4. Disconnect the 2 fan connections on the face of the electronics box.
5. Disconnect the 2 OSD board connections. See Figure 2.

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Ion Fusion (cont'd)**



OSD BOARD CONNECTIONS

FIGURE 2 - OSD BOARD

6. Carefully remove the electronics box cover and set it aside.
7. Remove all wire connections to the motherboard, taking note of their orientation so that they can be reconnected properly.
8. Remove the 8 screws securing the motherboard to the electronics box. See Figure 3.

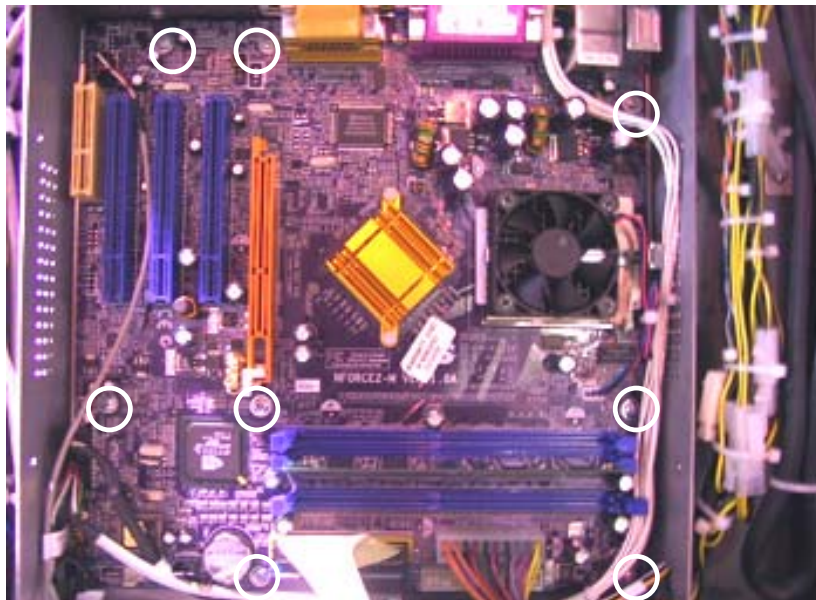


FIGURE 3 - SCREWS SECURING ECS MOTHERBOARD

9. Carefully extract the motherboard from the electronics box and insert it into an anti-static bag for storage. **NOTE: Be sure to read the Motherboard Handling Precautions before handling the board.**

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**ECS Motherboard Installation**

1. Set the motherboard in place within the electronics box, then secure the board with the 8 existing screws. See Figure 3.
2. Restore all motherboard wire connections with the exception of the hard drive ribbon cable and the 2 OSD board connections.
3. Feed the hard drive ribbon cable and OSD board connections through the electronics box cover, then put the cover in place over the electronics box and secure it with 2 screws. See Figure 1.
4. Connect the hard drive ribbon cable to the hard drive. Note that 4 pins on the hard drive are set off and will remain unconnected. Make certain that the red stripe on the ribbon cable, indicating pin-1 position, is inserted facing the unconnected pins. See Figure 4.

4 UNCONNECTED PINS  
(2 ROWS OF 2)



FIGURE 4- CIRCUIT-BOARD SIDE OF HARD DRIVE

5. Restore the hard drive support bracket and tighten the screw. See Figure 1.
6. Reconnect the 2 OSD board connections as well as the 2 fan connections. See Figure 2.
7. Close and lock the front bezel.
8. Plug in and turn on the game.

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**Removal/Installation of Major Assemblies -  
Ion Fusion (cont'd)**

**ASUS Motherboard Removal**

1. Turn off and unplug the game.
2. Unlock and open the front bezel.
3. Loosen the screw on the hard drive support bracket and disconnect the hard drive ribbon cable. See Figure 5.

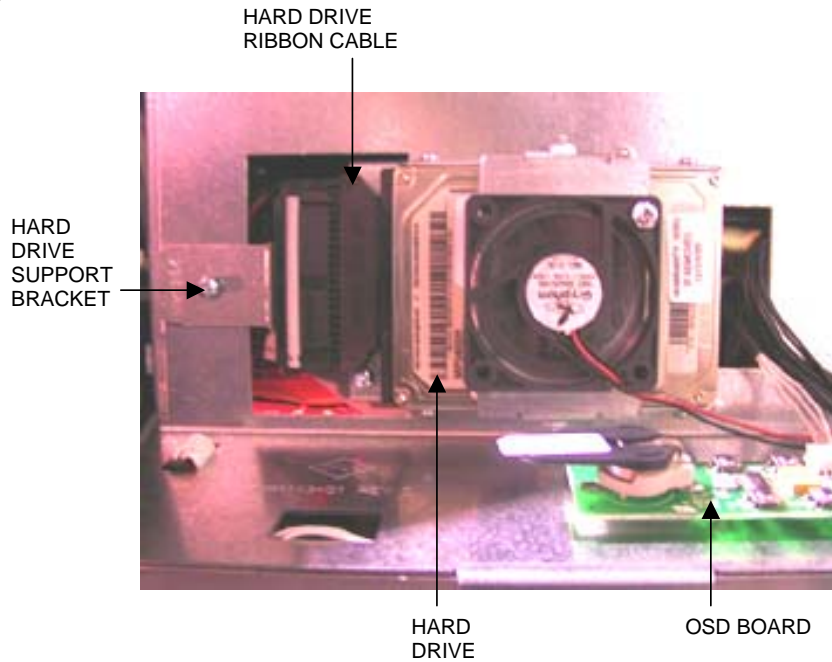


FIGURE 5 - HARD DRIVE ASSEMBLY ON ELECTRONICS BOX

4. Disconnect the 2 fan connections on the face of the electronics box.
5. Disconnect the 2 OSD board connections. See Figure 6.

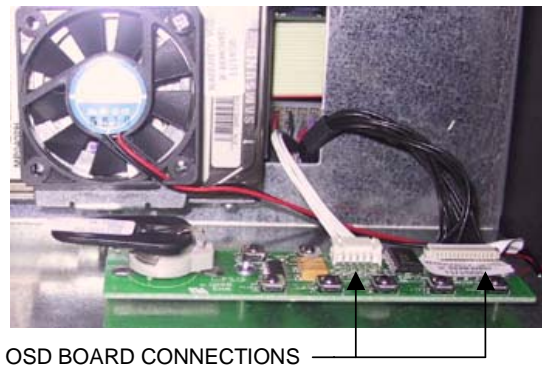


FIGURE 6 - OSD BOARD

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### **Removal/Installation of Major Assemblies - Ion Fusion (cont'd)**

6. Carefully remove the electronics box cover and set it aside.
7. Remove all wire connections to the motherboard, taking note of their orientation so that they can be reconnected properly.
8. Remove the 6 screws securing the motherboard to the electronics box. See Figure 7.

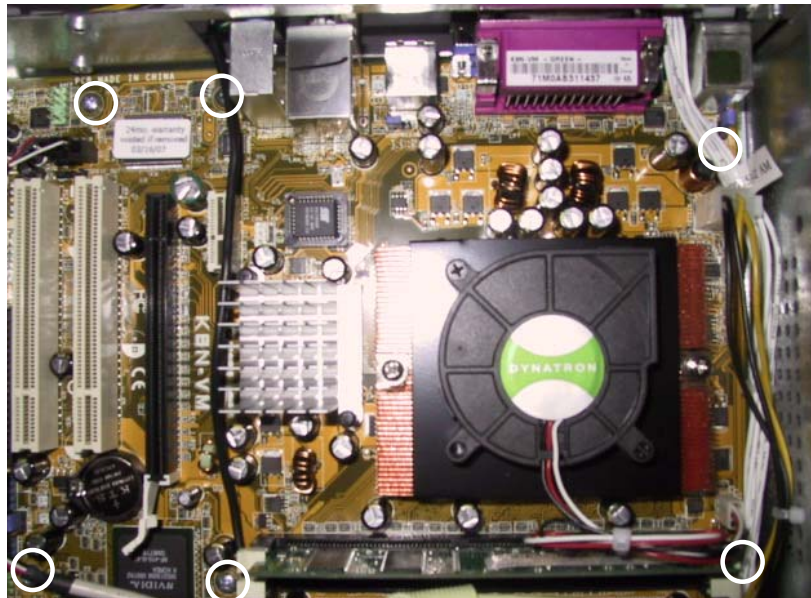


FIGURE 7 - SCREWS SECURING ASUS MOTHERBOARD

9. Carefully extract the motherboard from the electronics box and insert it into an anti-static bag for storage. **NOTE: Be sure to read the Motherboard Handling Precautions before handling the board.**

### **ASUS Motherboard Installation**

1. Set the motherboard in place within the electronics box (with the connector side facing up), then secure the board with 6 screws. See Figure 7.
2. Restore all motherboard wire connections.
3. Feed the hard drive ribbon cable and OSD board connections through the electronics box cover, then put the cover in place over the electronics box and secure it with 2 screws. See Figure 5.
4. For non-quick-click hard drives: Connect the hard drive ribbon cable to the hard drive. Note that 4 pins on the hard drive are set off and will remain unconnected. Make certain that the red stripe on the ribbon cable, indicating pin-1 position, is inserted facing the unconnected pins (Figure 8).

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**Removal/Installation of Major Assemblies -  
Ion Fusion (cont'd)**



FIGURE 8 - NON-QUICK-CLICK HARD DRIVE (CIRCUIT-BOARD SIDE)

5. For quick-click hard drives: Connect the hard drive ribbon cable to the hard drive by lining up the left side of the hard drive adapter with the pins on the hard drive and then carefully inserting it all the way into the quick-click adapter (see Figure 9).

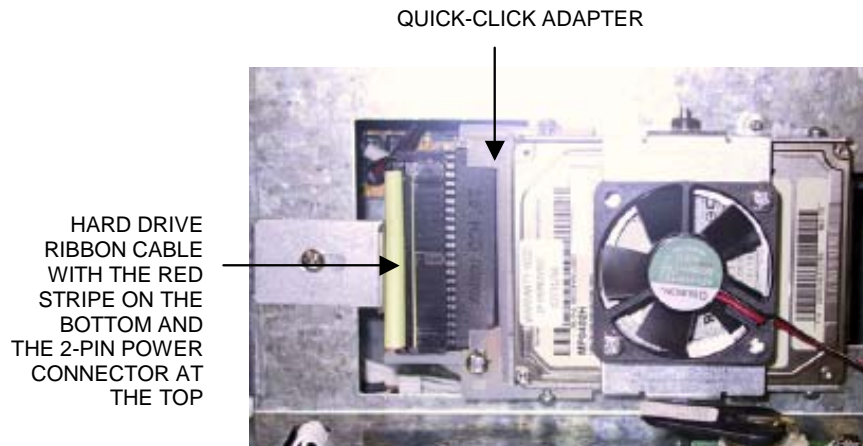


FIGURE 9 - QUICK-CLICK HARD DRIVE

6. Restore the hard drive support bracket and tighten the screw. See Figure 5.
7. Reconnect the 2 OSD board connections, as well as the 2 fan connections. See Figure 6.
8. Close and lock the front bezel.
9. Plug in and turn on the game.

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