



Force & Ion Memory Upgrade

Visit the Merit Entertainment Web site
<http://www.meritgames.com>



PM0672-01

Force and Ion Memory Upgrade

CONTENTS:

ION KIT		
QTY	PART NUMBER	DESCRIPTION
1	EC0146-04	256 MB MEMORY DIMM

FORCE KIT		
QTY	PART NUMBER	DESCRIPTION
1	EC0056-04	128 MB MEMORY DIMM

CAUTION: Before handling the boards, or any components on the board, it is important to remove any static electricity from your body by touching a grounded piece of metal on the game. Failure to ground yourself before performing an upgrade may result in damage to your system and may prevent you from performing the upgrade. Avoid walking around with the memory in your hand after you have removed it from the box. This could cause static to build up.

IMPORTANT: You **MUST** remove the original memory in your game and replace it with the memory provided in this kit. Simply adding the additional memory can cause incompatibility issues.

Follow the instructions for your cabinet type.

Ion Aurora Installation Instructions

1. Turn off and unplug the game.
2. Unlock the rear door and open it if it is hinged, or remove it if it is detachable.
3. Reach under the center of the top of the cover to locate the rotary draw latch (see Figure 1). Turn the wing on the latch counterclockwise to disengage.
4. Unscrew the thumbscrew located in the center of the bottom of the cover (see Figure 1). Slowly lift the cover and disconnect the ground wire.
5. Disconnect the power cord from the power supply. Remove the wing nut securing the OSD board. Then, detach the board from the Velcro on the power supply bracket and set the board aside.
6. Remove the electronics tray by unscrewing the thumbscrew located in the middle of the rear of the tray and sliding the tray out. See Figure 4. If applicable, disconnect the three black connectors (10-, 11- and 12-pin) connecting the electronics tray to the game in order to slide the tray out further. If your game does not have these connectors, the harness is long enough to remove the tray.
7. Move the hard drive/power supply tower out of the way of the motherboard by tilting it on its hinge 90 degrees to the left and supporting (if necessary).
8. Use Figures 4-5 to determine what type of motherboard is in your game. Then locate the DIMM sockets on the board.

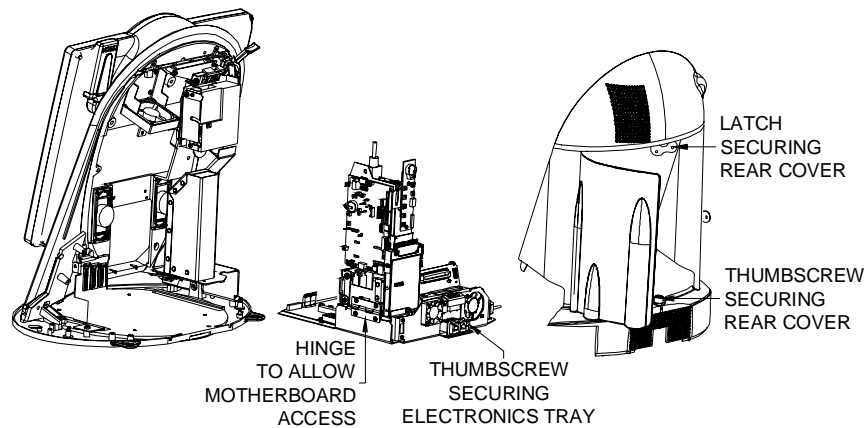


FIGURE 1 - ION AURORA GAME WITH REAR COVER REMOVED AND ELECTRONICS TRAY PULLED OUT

9. Take note of which socket the memory is using and then simultaneously press down on the two tabs on either side of the strip to release it from the socket.
10. Remove the DIMM strip from the board and place it in an anti-static bag for storage.
11. Line up the notches on the replacement DIMM strip with the notches on the DIMM socket (the same socket where the original DIMM strip was located). Making sure that the notches are lined up will ensure that the strip is facing the correct way. Then, carefully, but firmly and evenly, press down on the memory to insert it into the socket. The tabs on either side of the socket will latch onto the edges of the DIMM when it is correctly installed.
12. Restore the hard drive/power supply tower to its upright position, and slide the electronics tray back into place, making sure that the connectors on the back of the hard drive bracket click into the connectors on the wall of the game,
- if applicable. If you disconnected three connectors from the electronics tray to the game, reconnect them. Secure the tray by screwing in the thumbscrew. See Figure 1.
13. Reconnect the power cord to the power supply. Reattach the OSD board to the Velcro on the power supply bracket and secure it with the wing nut. See Figure 1.
14. Reconnect the ground wire to the rear cover and lower the cover into place, carefully lining up the 2 tabs on the cover with the 2 mating holes on the sides of the game. Make sure the plastic lip on the bottom of the rear cover is behind the metal base.
15. Tighten the screw securing the bottom of the rear cover. See Figure 1. Then, turn the wing on the draw latch clockwise to engage the latch (Figure 1).
16. Close (or reattach) and lock the rear door.
17. Plug in and turn on the game.

Ion eVo, eVo Walleette and Elite Edge Installation Instructions

1. Turn off and unplug the game.
2. Unlock and open the CPU section to gain access to the motherboard. See Figure 2.
3. Use Figures 4-5 to determine what type of motherboard is in your game. Then, use those Figures along with Figure 2 to locate the DIMM sockets on the board.
4. Take note of which socket the memory is using and then simultaneously press down on the two tabs on either side of the strip to release it from the socket.
5. Remove the DIMM strip from the board and place it in an anti-static bag for storage.
6. Line up the notches on the replacement DIMM strip with the notches on the DIMM socket (the same socket where the original DIMM strip was located). Making sure that the notches are lined up will ensure that the strip is facing the correct way. Then, carefully, but firmly and evenly, press down on the memory to insert it into the socket. The tabs on either side of the socket will latch onto the edges of the DIMM when it is correctly installed.
7. Close and lock the CPU section and then restore power to the game.

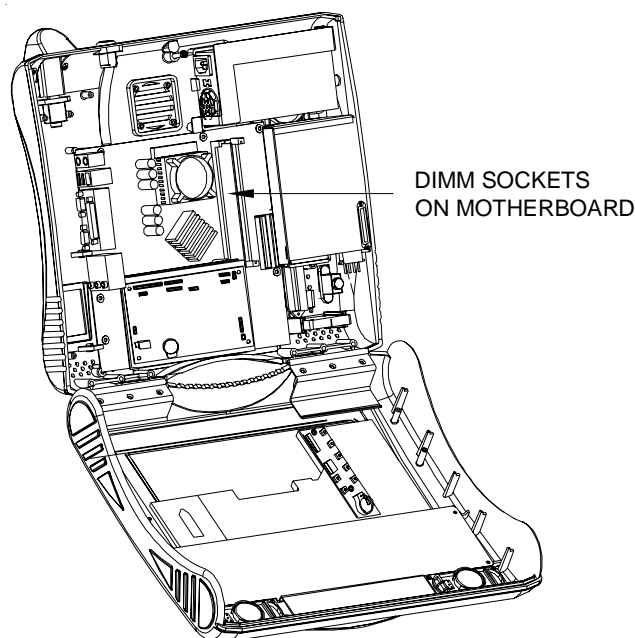


FIGURE 2 - ION EVO, ELITE EDGE, AND EVO WALLEETTE CPU SECTION OPENED

Ion Fusion Installation Instructions

1. Turn off and unplug the game.
2. Remove the two screws securing the electronics box cover (see Figure 3) and gently lift the cover as much as the cabling will allow. To completely remove the cover of the electronics box, disconnect the hard drive ribbon cable from the motherboard, disconnect the 4-pin hard drive power connector from its mating connector inside the electronics box, and disconnect the connector from the control board.
3. Use Figures 4-5 to determine what type of motherboard is in your game. Then, use those Figures along with Figure 3 to locate the DIMM sockets on the board.
4. Take note of which socket the memory is using and then simultaneously press down on the two tabs on either side of the strip to release it from the socket.
5. Remove the DIMM strip from the board and place it in an anti-static bag for storage.
6. Line up the notches on the replacement DIMM strip with the notches on the DIMM socket (the same socket where the original DIMM strip was located). Making sure that the notches are lined up will ensure that the strip is facing the correct way. Then, carefully, but firmly and evenly, press down on the memory to insert it into the socket. The tabs on either side of the socket will latch onto the edges of the DIMM when it is correctly installed.
4. Reconnect the hard drive ribbon cable to IDE 1 on the motherboard, the 4-pin hard drive power connector to its mating connector and the connector to the control board. Replace the cover of the electronics box and secure it with the same 2 screws.
5. Close and lock the bezel and then restore power to the game.

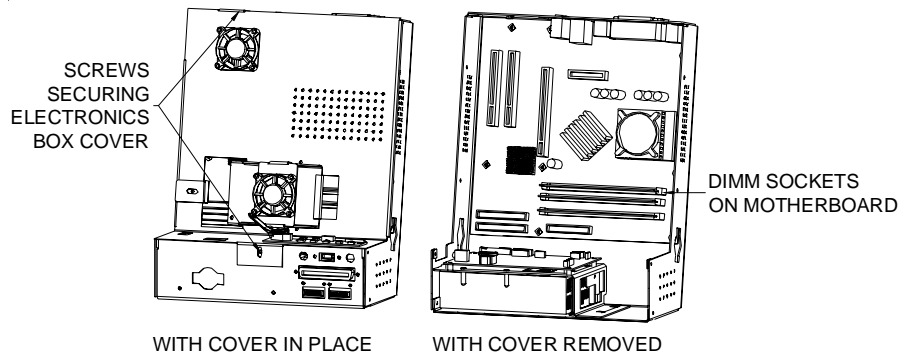


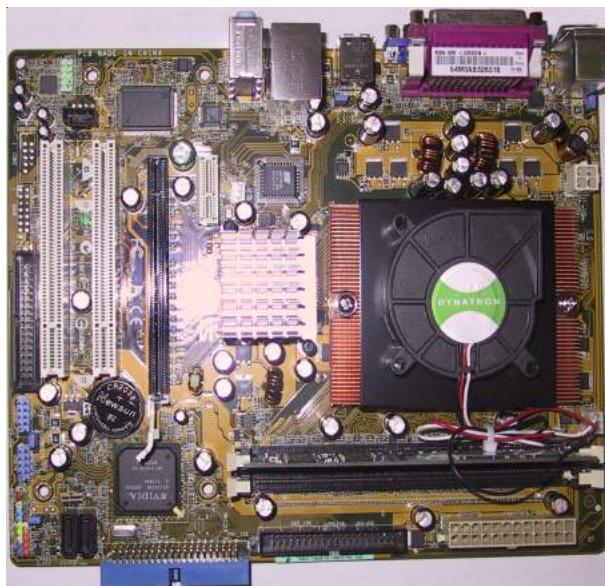
FIGURE 3 - ION FUSION ION ELECTRONICS BOX

ION MOTHERBOARDS



DIMM
SOCKETS ON
MOTHERBOARD

FIGURE 4 - ION ECS MOTHERBOARD



DIMM
SOCKETS ON
MOTHERBOARD

FIGURE 5 - ION ASUS MOTHERBOARD

Force Installation Instructions

1. Turn off your game and unplug it from its power source.
2. Unlock and open the CPU section door and locate the motherboard assembly.
3. **Force eVo, Elite Edge, and eVo Wallette Games Only:** Remove the 2 screws securing the motherboard assembly to the game (see Figure 6). Carefully pull the motherboard assembly away from the 2 brackets holding it in place on the opposite side of the screws you removed (see Figure 6). **NOTE:** It will be necessary to disconnect some of the connections to the board in order to pull the motherboard away from the brackets.
4. **Force Vibe Games Only:** Remove the 3 screws securing the hard drive assembly. See Figure 7. Disconnect the IDE cable and the 4-pin power connector from the hard drive and set the drive aside. Remove the 2 screws securing the power supply and disconnect the plug from the power supply and set the power supply aside. You should be able to use the access holes under the hard drive and power supply to carefully remove and reinstall the memory.
5. **Force Fusion with Electronics Box Games Only:** Remove the two screws securing the electronics box cover and remove the cover (see Figure 8).
6. **Force Upright Games Only:** Slide the CPU shelf into its service position (see Figure 12).
7. Using the diagram of your game type along with Figure 15 of the motherboard, locate the DIMM sockets on the board.
8. Take note of which socket the memory is using and then simultaneously press down on the two white tabs on either side of the strip to release it from the socket.
9. Remove the DIMM strip from the board and place it in an anti-static bag for storage.
10. Line up the notches on the replacement DIMM strip with the notches on the DIMM socket (the same socket where the original DIMM strip was located). Making sure that the notches are lined up will ensure that the strip is facing the correct way. Then, carefully, but firmly and evenly, press down on the memory to insert it into the socket. The tabs on either side of the socket will latch onto the edges of the DIMM when it is correctly installed.
11. **eVo, Elite Edge, and eVo Wallette Games Only:** Reconnect any connections to the motherboard that you may have removed. Replace the motherboard assembly behind the two brackets, line up the screw holes, and replace the 2 mounting screws. See Figure 6.
12. **Force Vibe Games Only:** Reconnect the power supply plug and replace the power supply securing it with the 2 screws. Reconnect the IDE cable and 4-pin power cable to the hard drive, replace the hard drive and secure it with the 3 screws. See Figure 7.
13. **Force Fusion with Electronics Box Games Only:** Replace the cover on the electronics box and secure it with the same 2 screws. See Figure 8.
14. Close and lock the CPU section and then restore power to the game.

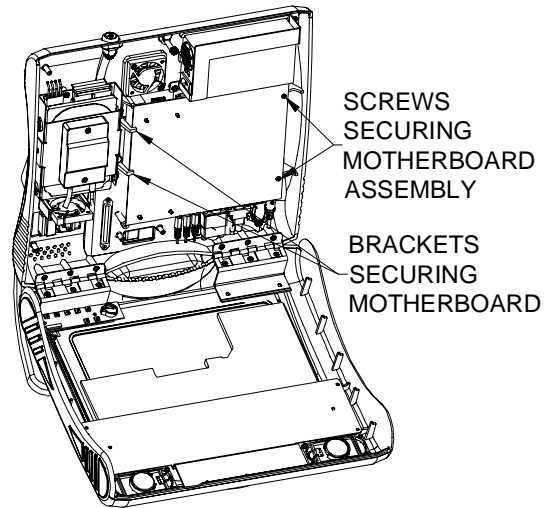


FIGURE 6 - FORCE EVO, EVO WALLETTE, AND ELITE EDGE CPU SECTION

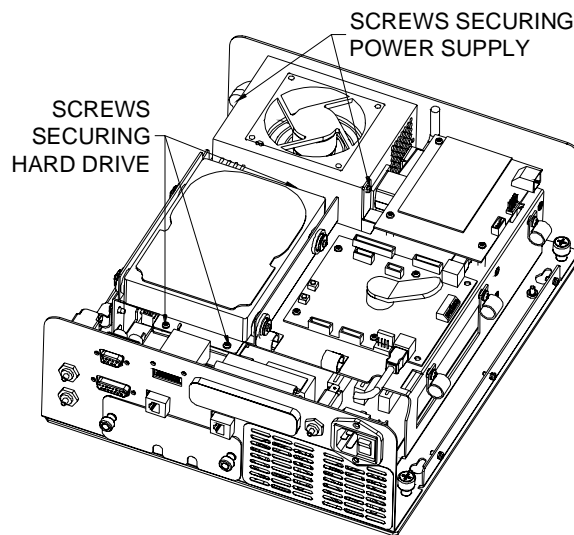


FIGURE 7 - VIBE PROCESSOR WITH COVER REMOVED

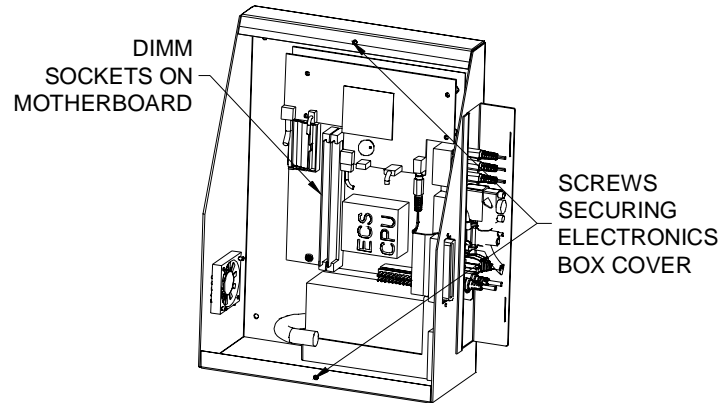


FIGURE 8 - FORCE FUSION ELECTRONICS BOX

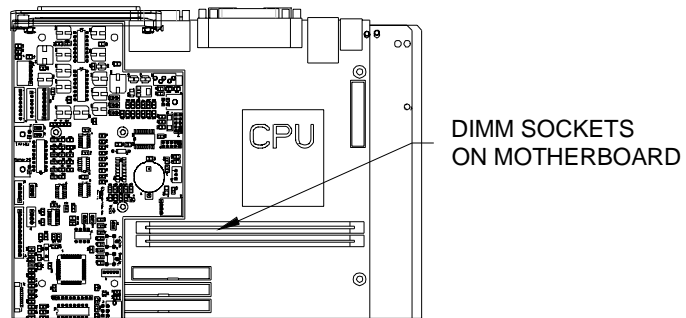


FIGURE 9 - FORCE FUSION (WITHOUT ELECTRONICS BOX) ELECTRONICS

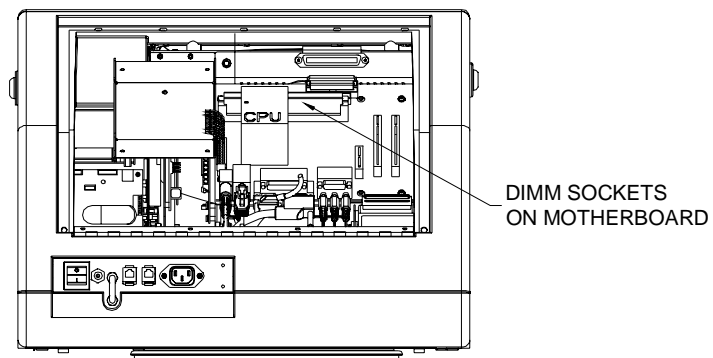


FIGURE 10 - REAR VIEW FORCE RADION AND MEGATOUCH CHAMP

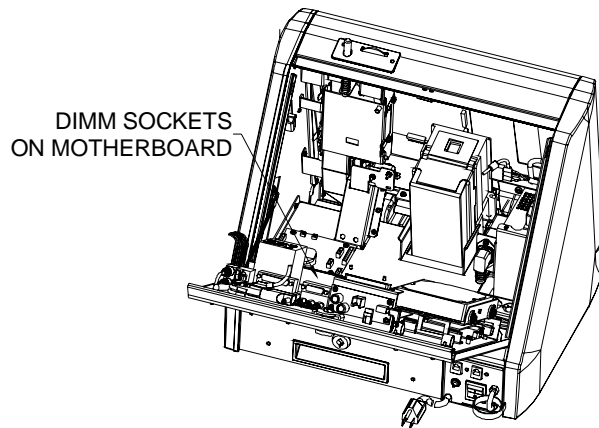


FIGURE 11 - REAR VIEW OF FORCE ELITE

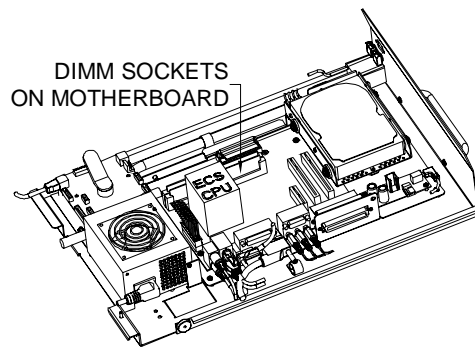


FIGURE 12 - FORCE UPRIGHT ELECTRONICS SHELF

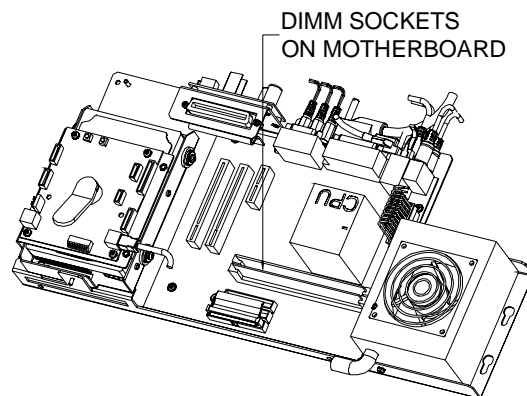


FIGURE 13 - COMBO JUKEBOX AND FORCE UPRIGHT WITH COIN DOOR ELECTRONICS



FIGURE 14 - FORCE CLASSIC SHOWN WITHOUT THE CABINET

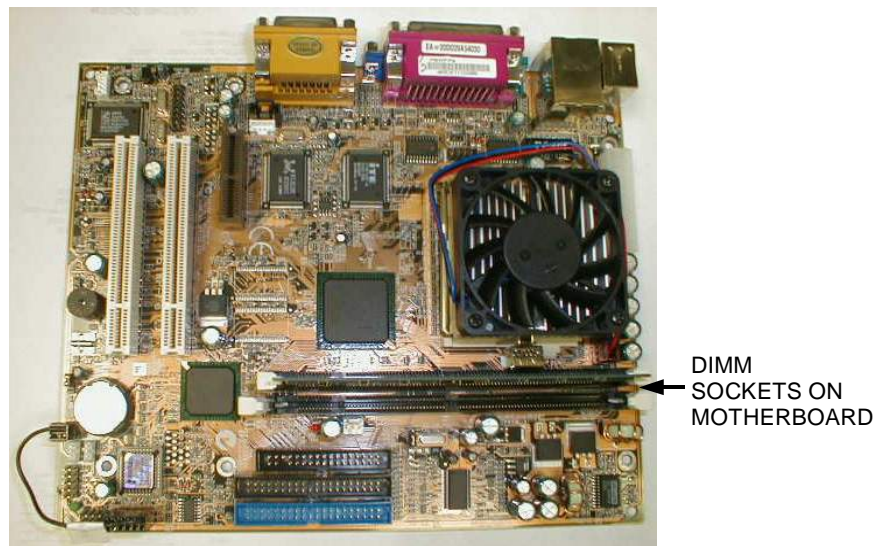


FIGURE 15 - FORCE ECS MOTHERBOARD

[illegible]

[illegible]

MEGATOUCH FORCE AND ION MEMORY UPGRADE
PM0672-01