



# TECH NOTES

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## Re: Installing the Power-On Harness in an Ion Game

To install the Power-On Harness, first determine what kind of motherboard is in your game using the diagrams below. The simplest way to do this, is to notice the position of the North Bridge in relation to the CPU Fan. The North Bridge will sit at an angle to the CPU fan on an ECS board (see Figure 1), while it will be squared off in the same way as the fan on an ASUS board (Figure 2).

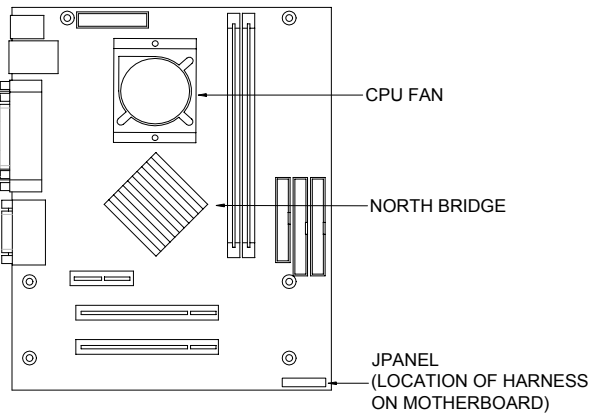


FIGURE 1 – ECS MOTHERBOARD

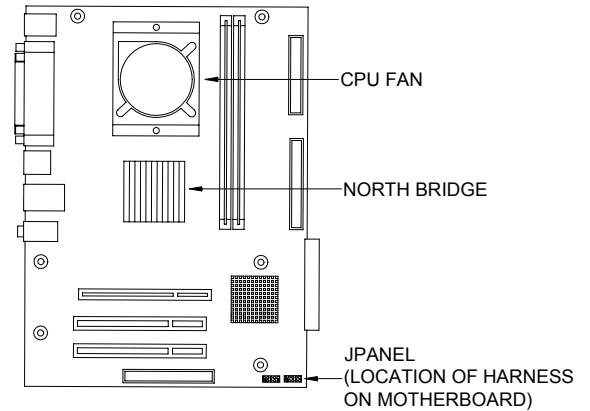


FIGURE 2 – ASUS MOTHERBOARD

The Power-On Harness will replace the Watchdog Harness. So to install the Power-On Harness, first remove the Watchdog Harness, noting its routing and cutting any tie wraps as necessary. This harness runs from J14 on the I/O board to the JPANEL header on the motherboard (see Figures 5 & 6 for motherboard location). Replace the Watchdog Harness with the Power-On Harness, following the same route. Tie wrap any wires as necessary. See Figures 3 & 4 for which harness to use with which motherboard.



FIGURE 3 – SA0356-04 FOR USE WITH ECS MOTHERBOARD

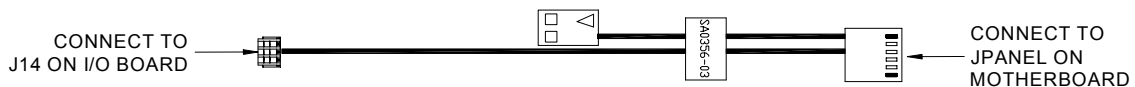
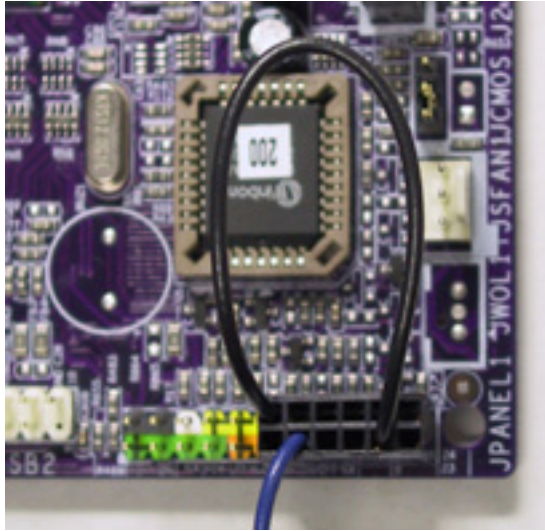


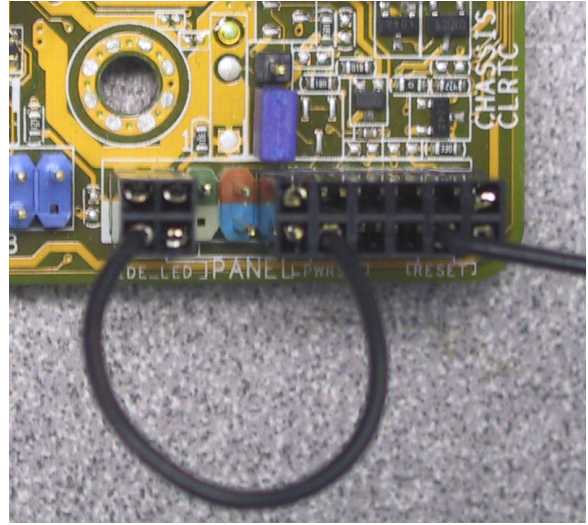
FIGURE 4 – SA0356-03 FOR USE WITH ASUS MOTHERBOARD

Install the harnesses as shown in the diagrams below.



The connector should be on the outside corner of the JPanel header with the two-wire side closest to the edge of the board.

FIGURE 5 – CORRECT CONNECTION TO ECS BOARD



All wires are closest to the edge of the board and on opposite ends of the Jpanel header. The wire from the 4-pin connector is also furthest from the 12-pin connector.

FIGURE 6 – CORRECT CONNECTION TO ASUS BOARD

If you have any questions, please contact Merit Customer Service and Technical Support by phone at 215-639-4700 or 800-445-9353, or by e-mail at [TechCenter@meritgames.com](mailto:TechCenter@meritgames.com).