

**SERVICE INFORMATION LETTER 001**

November 21, 2003

Subject: This Service Information Letter describes the operation of the FlightLogic display in cold temperatures.

When the internal temperature of the FlightLogic Integrated Display Unit (IDU) is below 0 degrees Celsius, the Central Processor Unit (CPU) is held in a reset condition and internal heaters are activated. There are several heaters built into the IDU designed to warm the CPU, display, and lamps. The heaters remain on until the core temperature of the CPU climbs above the cold start temperature threshold. During this time the red light next to the SmartMedia slot on the lower face of the IDU is turned on indicating that power is reaching the IDU and it is in the process of a cold weather start. Once the CPU is within its designed thermal limits, the system controller releases the resets and allows the IDU to start normally.

Heating cycle times will range from a couple of seconds to several minutes depending on the cold soak temperature. If the aircraft has been idle for a period of time (overnight or longer), the following is recommended:

- Preheat the aircraft flight compartment before applying power.

OR

- Allow the IDU to complete the warm up time on its own; do not try to speed up the process by cycling power. This will delay the warm up time.



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