

PowerBook Computers: How Cold Temperatures Affect Them (3/97)

Revised: Security:	
	Computers: How Cold Temperatures Affect Them (3/97)
	reated: 3 March 1997 eviewed/Updated: 4 March 1997
TOPIC	
How can a	cold environment affect a PowerBook computer's Power Manager?
DISCUSSION	1
Issue	
	verBook computer's Lithium backup battery is exposed to cold res it may cause the PowerBook computer to not keep time or not power
Descriptio	on
	 ok computer's Power Manager and Parameter RAM (PRAM) are maintained by o battery when the PowerBook computer is either Shut Down or in Sleep
behaves d	b battery used in PowerBook computers is a Lithium battery which ifferently compared to other battery types in both low-voltage and cold re situations.
Fahrenheit they may '	atteries when exposed to a cold environment (less than 45 degrees c or 7 degrees Celsius) may either stop sending voltage completely or 'pulse" full voltage. This inadequacy or inconsistency of voltage sent backup battery can corrupt the PRAM and/or Power Manager of a PowerBook
Solution	
	ok computer which has recently been exposed to a cold environment (such unk of a car, in a classroom at a school which may not be heated

overnight, and so on) should be placed in a warm environment where it can be

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warmed to room temperature (more than 50 degrees Fahrenheit or 10 degrees Celsius) before you attempt to power it on.

If the PowerBook computer still does not power on after being allowed to warm up, you should reset the ***Power Manager***. Each model of PowerBook computer has different methods for doing this. For more information on resetting the Power Manager for your PowerBook computer model see the Tech Info Library article 0014449, titled "PowerBook: Resetting Power Manager".

*** WARNING ***** WARNING ***** WARNING ***** WARNING ***** WARNING ***

Power Manager Reset procedures for all of the Macintosh PowerBook computers will permanently remove a RAM disk, if present, and all of its contents.

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