

Service Note		
Product	Description:	Service note no.
<b>Manhattan</b>	<b>New Atmel AT90LS4433</b> Programming the AT90LS4433	<b>722 10 1803</b>

**Problem:** Due to discontinuation of the Atmel AT90LS4433 the GMinor AVR will be changed to the Atmel: ATMEGA8L-8AC. The programming files for the processor have to be changed Problems when programming In Circuit.

**Issue:** When changing to the new microcontroller it's NOT possible to In Circuit Program the device, when LED's are connected to the programming lines.  
Solution: The device MUST be programmed before leaded components are mounted.

**Issue:** ATmega8 is NOT supported by Kanda USB deviceprogrammer.  
Solution: Use Equinox FS2003A programmer instead. Select project: G-Minor MEGA8.

**Note.** When programming G-Minor with Atmel 90LS4433 devices, select project: G-Minor 4433  
Will be implemented when old stock is used (Probably August 2004)

## Programming microcontroller after replacemet.

Due to problems with the load of the programminglines (MISO, MOSI), the device can't be programmed if R7 and R14 are mounted.

**Solution:** Remove R7 and R14 before programming. When programming are complete then mount components again. This workaround applied only to devices mounted with the ATmega8 microcontroller.