## **Tech Tips**

#### "Crazy Mouse"

#### **Description:**

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Cursor erratically jumps around on the screen when a GPS or other NMEA device is hooked up to the computer.

#### Solution(s):

- 1. "NoSerialMice" fix. (Best general fix.)
- 2. Disable Serial Mouse. (Not a good option for devices that are disconnected frequently steps must be re-taken on reconnect.)
- 3. "fastdetect" fix. (Specific to the COM port(s) identified only.)

#### Steps:

#### Solution 1, (NoSerialMice):

To disable the detection of devices on COM ports in Windows NT/2000/XP:

 Go to: My Computer – Right Click – Properties | Advanced tab | Startup and Recovery - Settings | Edit. Make a backup copy of the Boot.ini file, (copy and paste in another location)

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stem Properties
System Restore Automatic Update
General Computer Name Hard
You must be logged on as an Administrator to make Performance Visual effects, processor scheduling, memory usar User Profiles Desktop settings related to your logon Startup and Recovery System startup, system failure, and debugging info Envirogment Variables

- 2. Remove the hidden, system, and read-only attributes from the **Boot.ini** file. (Use Windows Explorer and right click on file, then properties.)
- Using a text editor (such as Notepad) open the **Boot.ini** file. (Double click on file, or right click and choose Notepad from the "Open With" option.)
- Add "/NoSerialMice" to the end of each entry in the [operating systems] section of Boot.ini. See the example below for more information



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5. Save **Boot.ini** and quit Notepad

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- 6. Shutdown and restart Windows
- **NOTE:** The /NoSerialMice option is not case sensitive.

#### Solution 2, (Disable Serial Mouse):

- 1. Start with the computer turned off and GPS ON and connected
- 2. Turn on computer and boot into windows
- 3. Once the mouse goes crazy, wait about two minutes then turn off the GPS
- 4. For Windows XP: Right click on My Computer, left click Properties



- 5. Click on the **Hardware** tab
- 6. Click on **Device Manager**

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<u>For all Operating Systems:</u> Go to the **Start** menu, select **Run**, enter "devmgmt.msc" and hit **OK** 



7. In the Device Manager click on the + next to **mice and other pointing devices** 

- 8. Highlight Microsoft Serial Ball Point
- 9. Click on the **Disable** icon up at the top

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- 10. Click on **Yes** to the next message that appears
- 11. Close the **Device Manager**
- 12. Turn on the GPS

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**Note:** Do Not delete the mouse – this would cause Windows to re-install on startup and Crazy Mouse would return.

#### Solution 3, (fastdetect):

#### **Note: For XP only**

 Go to: My Computer – Right Click – Properties | Advanced tab | Startup and Recovery - Settings | Edit. Make a backup copy of the Boot.ini file, (copy and paste in another location)

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General       Computer Name       Hardware       Advanced         You must be logged on as an Administrator to make most of these changes.       Setformance         Visual effects, processor scheduling, memory usage, and virtual memory       Settings         User Profiles       User Profiles	tartup and Recovery System startup Default operating system: ["Microsoft Windows XP Professional" /noexecute=optin /fastde
You must be logged on as an Administrator to make most of these changes. Performance Visual effects, processor scheduling, memory usage, and virtual memory Settings User Profiles	System startup Default operating system: ["Microsoft Windows XP Professional" /noexecute=optin /fastdd
Settings	"Microsoft Windows XP Professional" /noexecute=optin /fastde
Desktop settings related to your logon           Settings	Time to display list of operating systems:     30      Time to display recovery options when needed:     30      To edit the startup options file manually, click Edit.     Edit System Fallure
Startup and Recovery System startup, system failure, and debugging information	<ul> <li>✓ <u>W</u>rite an event to the system log</li> <li>✓ Send an administrative alert</li> <li>✓ Automatically restart</li> <li>Write debugging information</li> </ul>
Envirogment Variables Error Reporting	Small memory dump (64 KB)       Small dump directory:       %SystemRoot%(Minidump)       Ø Qverwirke any existing file

- 1. Remove the hidden, system, and read-only attributes from the **Boot.ini** file. (use Windows explorer, and right click on file, then properties)
- Using a text editor (such as Notepad) open the **Boot.ini** file. (Double click on file, or right click and choose Notepad from the "Open With" option.)
- 3. Add "/**fastdetect:comXX**" Where XX is the required serial port
- 4. **Note:** Ports may be separated with commas to turn off more than one port

**Warning:** If you use /fastdetect, and do not specify a communications port, serial mouse detection is turned off on all communications ports

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5. Save Boot.ini and quit Notepad

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6. Shutdown Windows, turn on the GPS and restart the computer