# Spider chip installation tutorial – versions 1.0 -1.6

**Revision 2.0**

Installing the Spider chip is quite easy, once you removed the cover, the DVD drive and the HDD (see Infomodchip.com tutorials for disassembly instructions), the installation of the chip itself takes about 5-10 minutes. The wires seem to be weak but they can be manipulated by hand without any damage. Before installing the chip, **see Figure 1** for the chip & wire locations. The pogo pins under the Spider chip will be inserted in the large holes of the LPC port and the small wires will be inserted in the Area 1 & 2 for Xbox 1.6 and in the Area 2 only for Xbox 1.0 to 1.5.

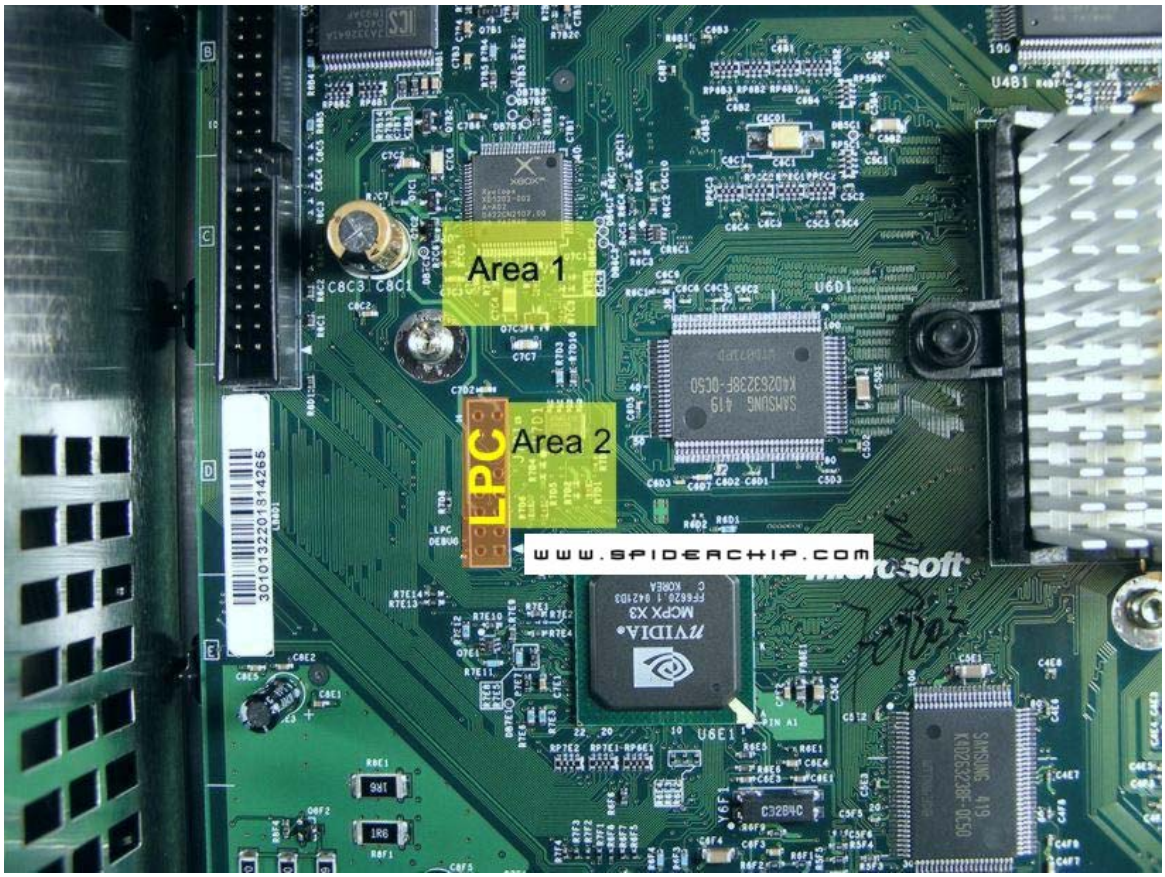


**Figure 1. LPC port (16 large holes) and Area 1 & 2 for the wire installation.**

Before installing the wires in the small holes, you must secure the chip using the screw (provided). Remove the Torx screw (T10) from the board (beside LPC) and place the metal washer (provided). Put the chip over the washer, then place the screw provided with the chip. When you apply force to the screw, make sure that you keep the pogo pins of the chip aligned on the LPC at the same time (**see Figure 2**). Don't try to make the chip completely flat on the mainboard, even when the screw is in place, the chip is not completely flat on the board.

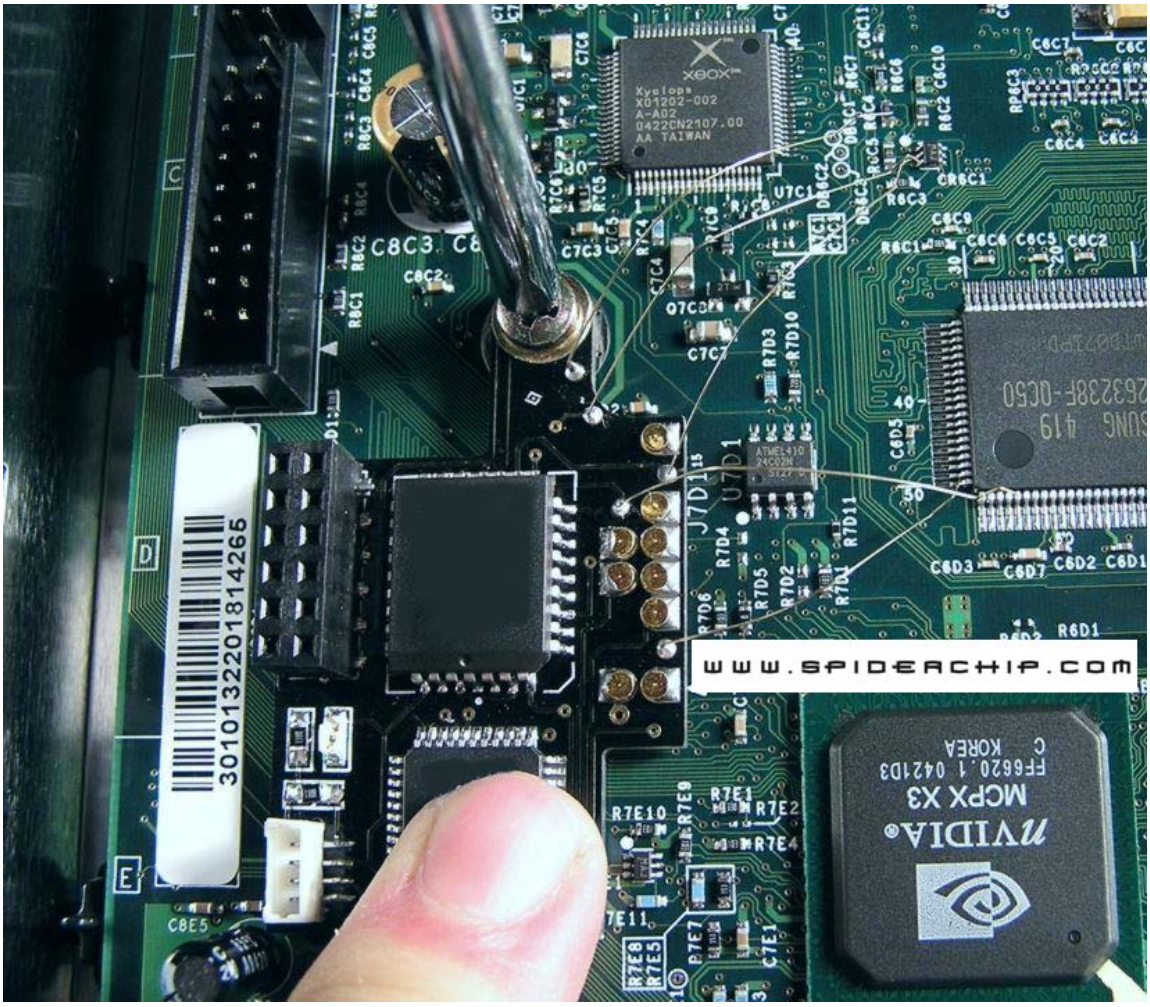


**Figure 2. Screwing the chip and alignment on the LPC port.**

Once the chip is in place, you can put the wires in the small holes (**Area 1 & 2 on Figure 1**).

The **Figure 3** shows the wire identification on the Spider chip. **Place them using the following order: A-B-C-D-E.**

**IMPORTANT NOTE:** For Xbox 1.6, all the wires are needed while only the **D wire** is needed for Xbox 1.0-1.5. In these Xbox versions, the D wire is inserted in the D0 via. You can cut the unused wires or insulate them with a piece of non-conductive tape. For Xbox 1.6, don't cut any wire, they are all needed!


**Figure 3. Wire identification on the chip.**

Place the wires in the small holes (called via) on the Xbox mainboard. Use the pictures shown in **Figures 4 to 7, depending on your Xbox version.** You should be able to place the wires with your fingers. If not, make sure that you use small tweezers and also that only a small force is applied on the wires. An excessive force or inappropriate tooling can damage the wires.

For Xbox **versions 1.0 & 1.1**, use this location in Area 2 to insert the **D wire**:

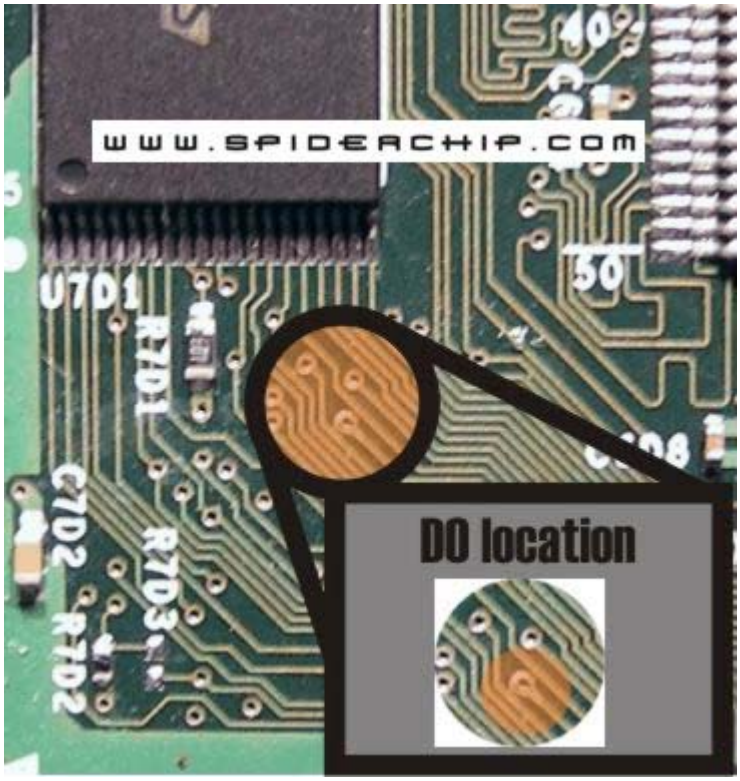


**Figure 4. Wire location in Area 2 for Xbox 1.0-1.1.**

For Xbox **versions 1.2 to 1.5**, use this location in Area 2 to insert the **D wire**:


**Figure 5. Wire location in Area 2 for Xbox 1.2-1.5.**

If you have a **version 1.6 Xbox**, use figures 6 and 7 to insert the wires of the Area 1 & 2.

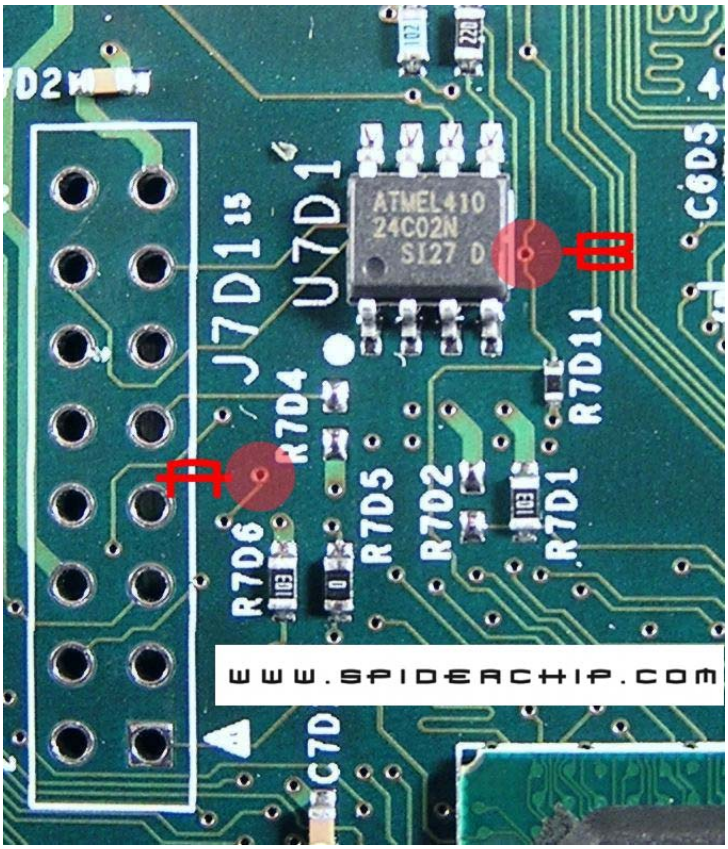


**Figure 6. Wire location in Area 1 (Xbox 1.6).**

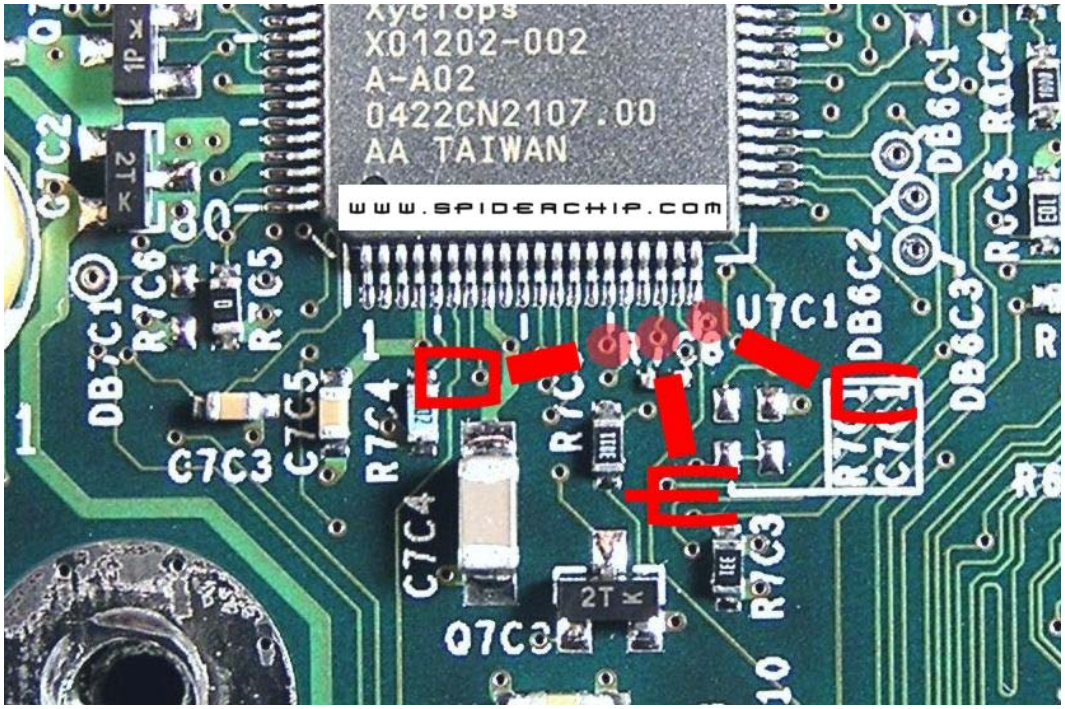


**Figure 7. Wire location in Area 2 (Xbox 1.6).**

Make sure that the wires in the **Area 2** are placed in order: C-D-E and also that they **don't touch each other**.

After the insertion of the wires, the installation should look like this:

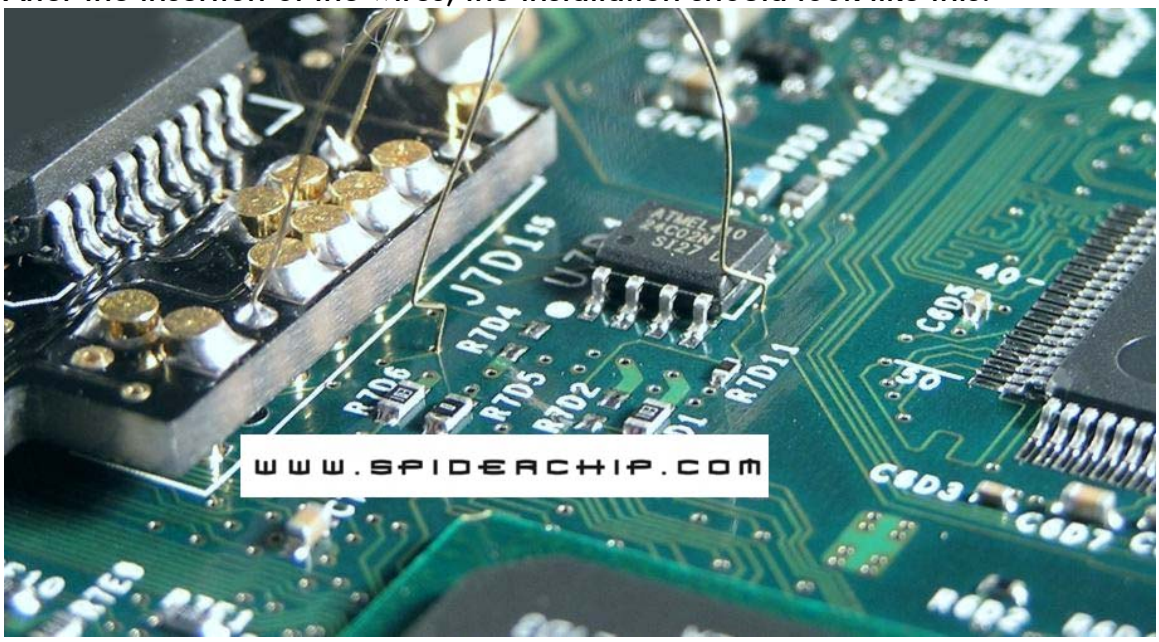


**Figure 8. Actual placement of the wires in the Area 1 (Xbox 1.6).**


**Figure 9. Actual placement of the wires in the Area 2 (Xbox 1.6).**

You can now plug the switch provided with the Spider. If you don't want to plug this external switch, the chip will work but will be in **'always on'** mode. If you connect the switch, you will have the choice between your original bios and the bios of your Spider. Route the wires of the switch through you Xbox cover side holes and the chassis slots (**see figure 10**). You can place the switch outside the Xbox using the sticker under the switch.

**IMPORTANT NOTE:** The socket of this wire is very fragile and if you want to unplug the switch from the chip, please use extreme care!

***Make a last check:*** make sure that no wires touch each other and that the chip is aligned on the LPC port. Power on the Xbox and see if the LED lights up as shown in Figure 10. If the light is on, it doesn't mean that all the wires are properly placed, it just means that the chip receives power from the Xbox. To make sure that all the wires are well inserted, plug the Xbox on your TV (even if there is no DVD or HDD in the Xbox) and see if there is a booting animation. When the chip is disabled, you will see the normal booting animation. When the chip is enabled, you should get a screen that shows the Cromwell bios disk request. ***If you can see that, you can now reassemble the Xbox and go to the second tutorial: How to flash a Spider chip using a disk.***

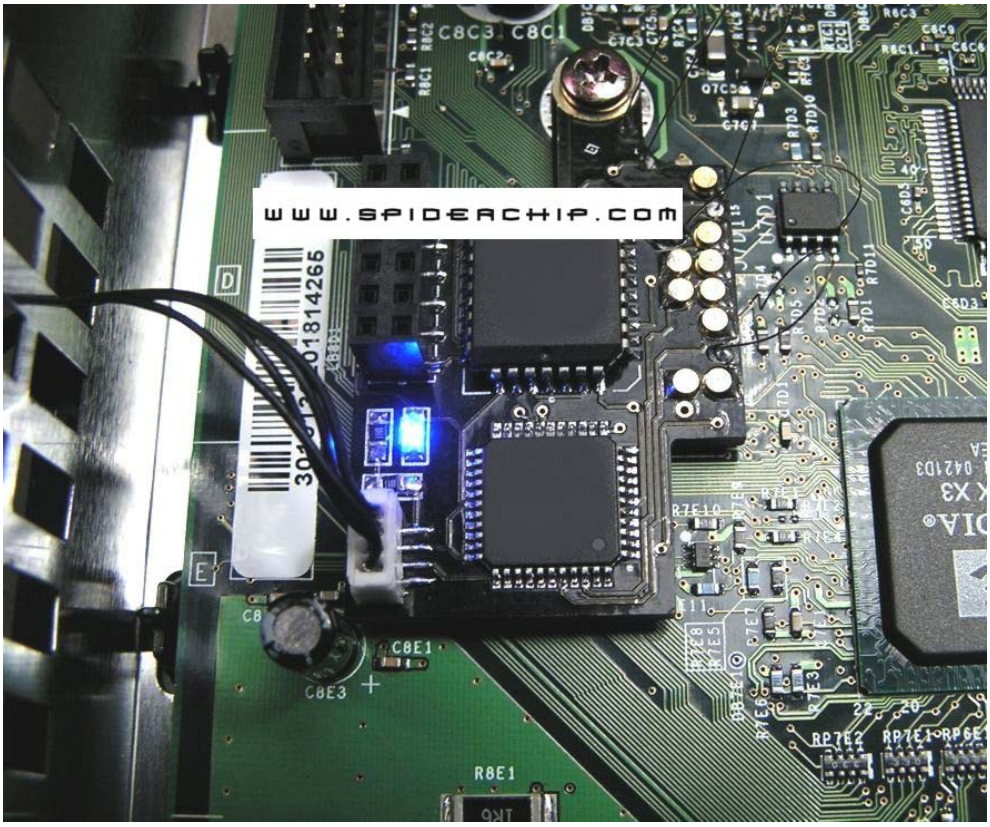


**Figure 10. Spider chip blue LED when the Xbox is powered up.**