

XENIUM

Quick Solder Installation Guide

Rev 1.1

SISENEN



The installation of your Xenium will void your console's warranty and may cause damage to your console if not installed correctly. Please ensure that power is not applied to your XBox during this installation procedure.

XeniumMods@gmail.com

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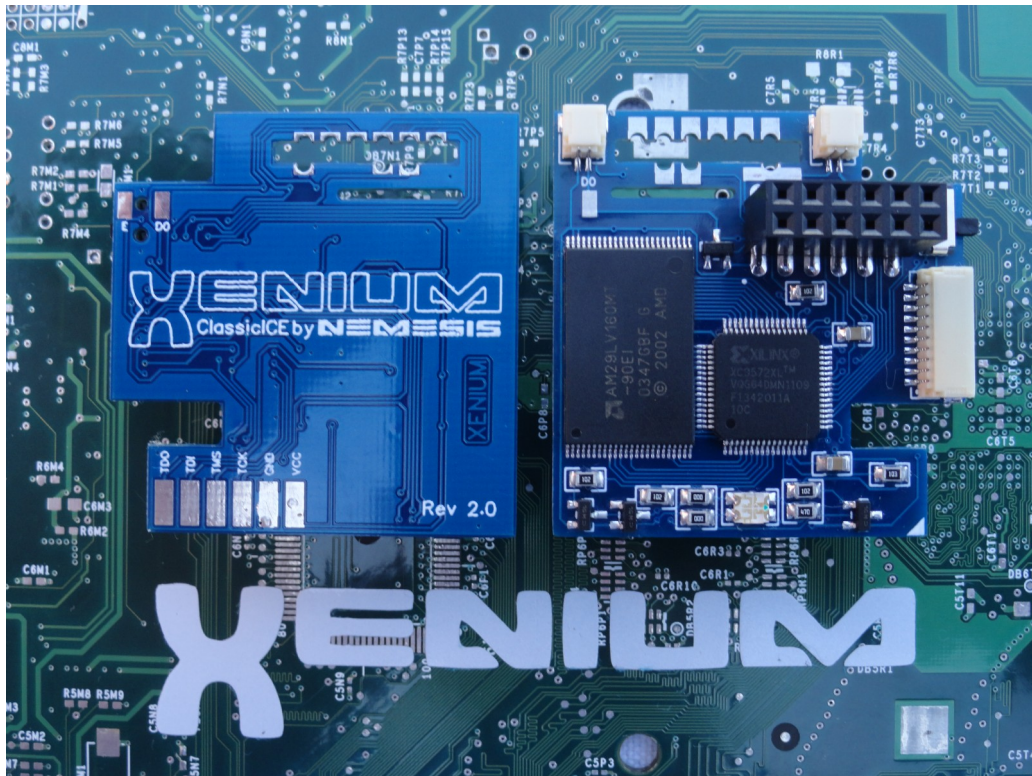
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Introduction



The Xenium has been designed to cater for a variety of installation options including Pin Header, Quick Solder, Hard Wired and Solderless methods.

I don't recommend the "Quick Solder" method as it doesn't involve much forward thinking, as for some reason you would like to remove the mod-chip there's a good chance that it will get damaged during the process.

The only reason I could see someone using this method is if they have a v1.0 console where the LPC through holes are filled with solder, I have provided a easy method to desolder the v1.0 LPC in the "Pin Header Installation Guide".

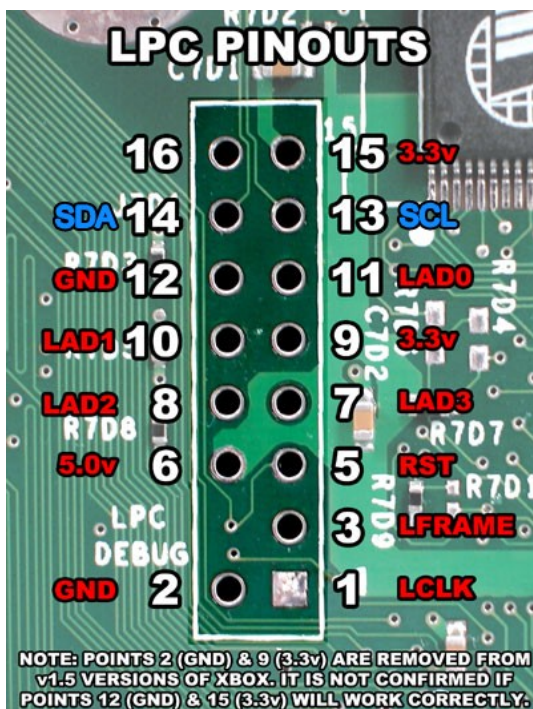
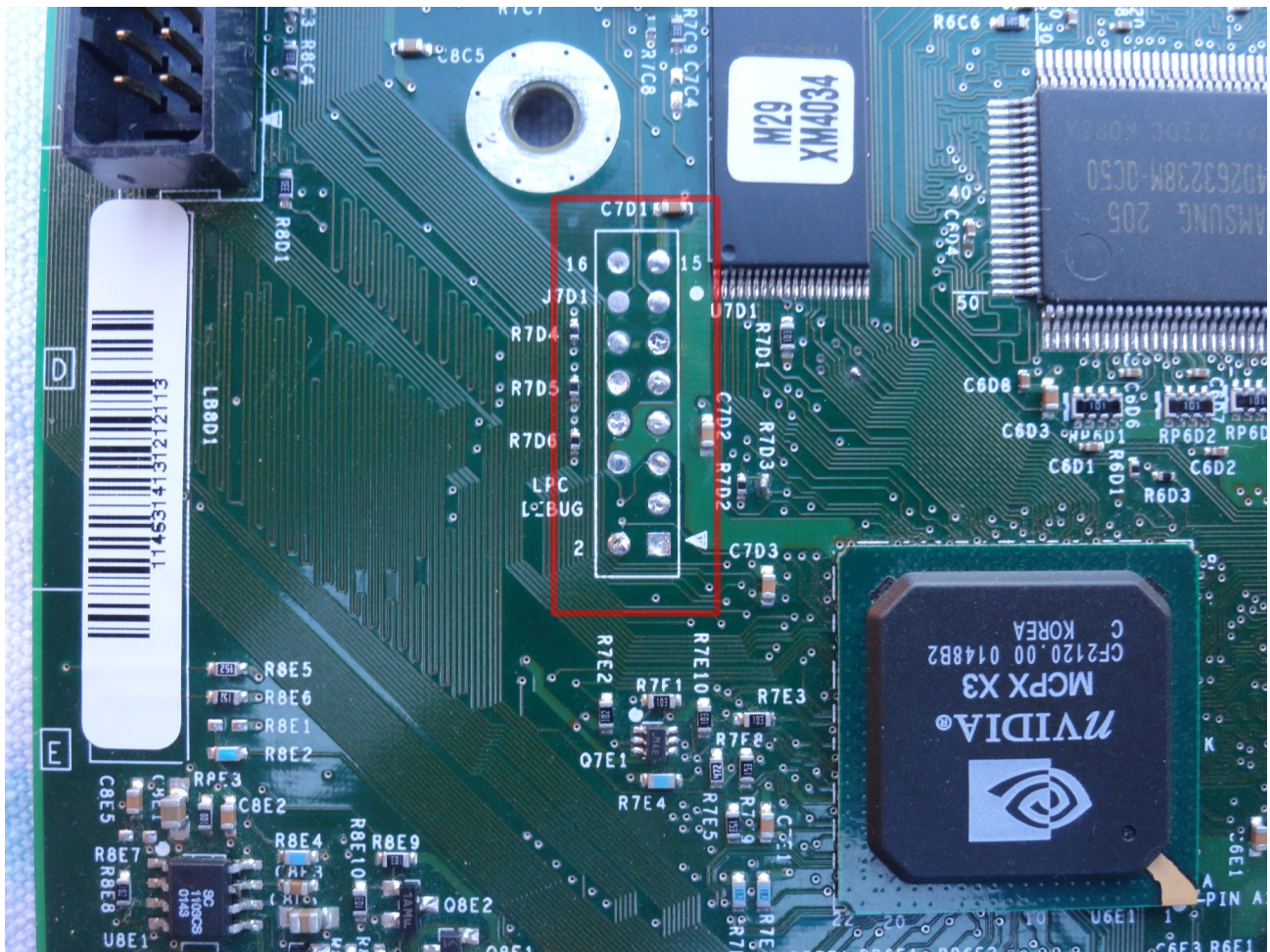
This method of mod-chip installation was popular back in the early 2000's with those modders that would either come to your house or you went to theirs and paid for them to perform the installation for you. This method didn't require to remove the motherboard from the case and therefore saved valuable time and effort, however over the past few years I've needed to desolder many quick soldered mod-chips because they either died or had a failed flash...

Recommended Tools



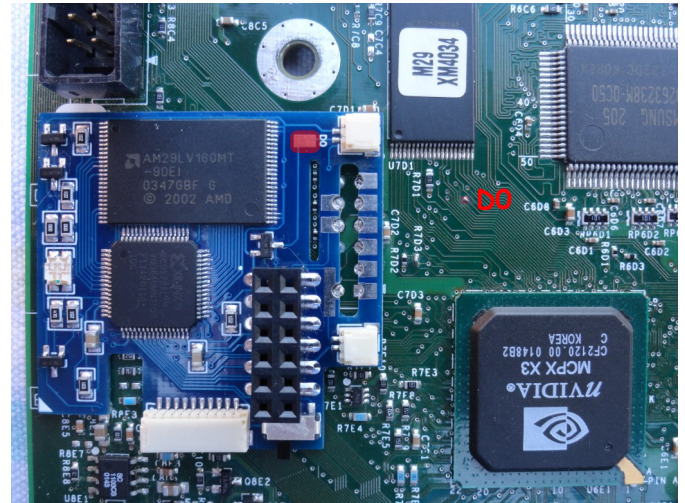
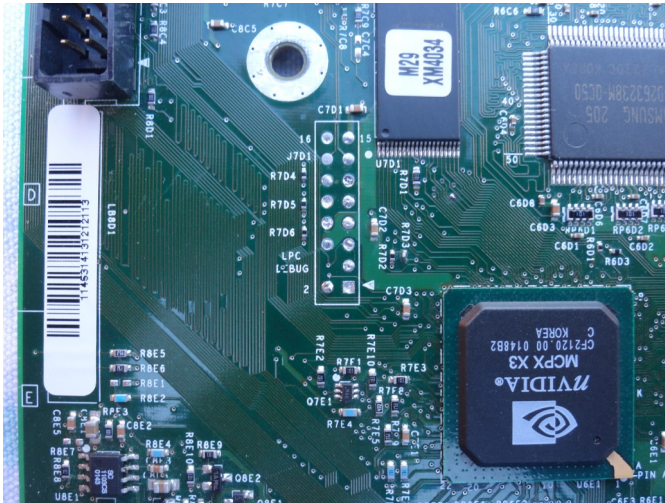
A good soldering iron with temperature control will be a huge benefit. My general rule of thumb is to use 340°C for general soldering, 360°C for desoldering and 400°C for anything that's grounded. I like to use a 1.2mm tip on my iron with 0.8mm solder with 60% lead, be sure to use Flux as it will greatly improve the quality of your work. I recommend desoldering wick as a solder sucker is of no use at this scale. Some isopropyl alcohol, cotton tips and a toothbrush will assist with any cleaning. You may also need a hobby knife to remove the solder mask if you choose the "Quick Solder" method. I would also recommend the use of 30AWG Kynar Wire (aka Wire Wrap) as it is very fine and single core which will make soldering to small points much easier.

Locating the LPC



It's not difficult to find the LPC as it's located right in between the IDE connector and the NVIDIA south-bridge on all versions.

Version 1.0 - 1.1



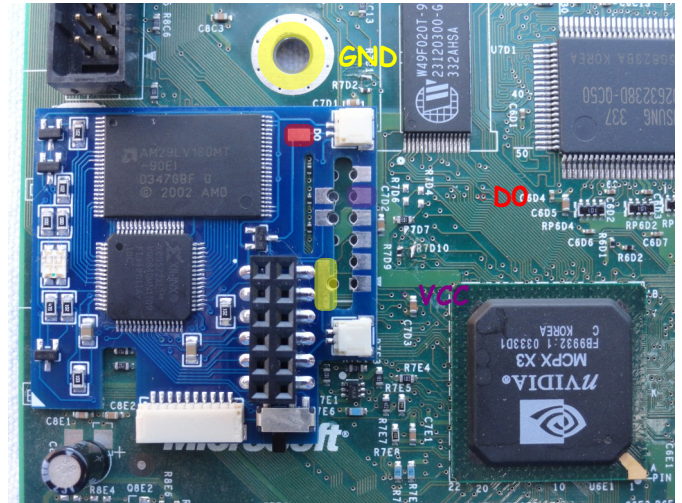
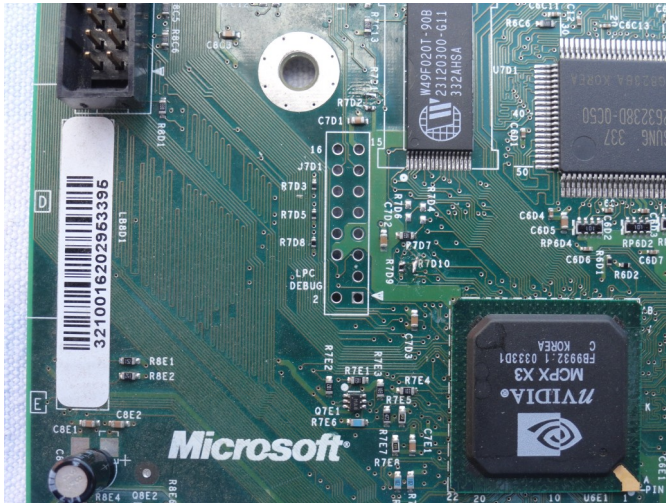
Place the Xenium mod-chip in place as shown above making sure it sits nicely in between all the components that surround it. While using flux, solder the pads on the Xenium to the LPC creating a nice little bead. Depending on your board you may need to scratch the solder mask of the top of the D0 point shown above or use the alternate D0 underneath the motherboard and connect it to the Xenium with Kynar Wire.

Version 1.2 - 1.3



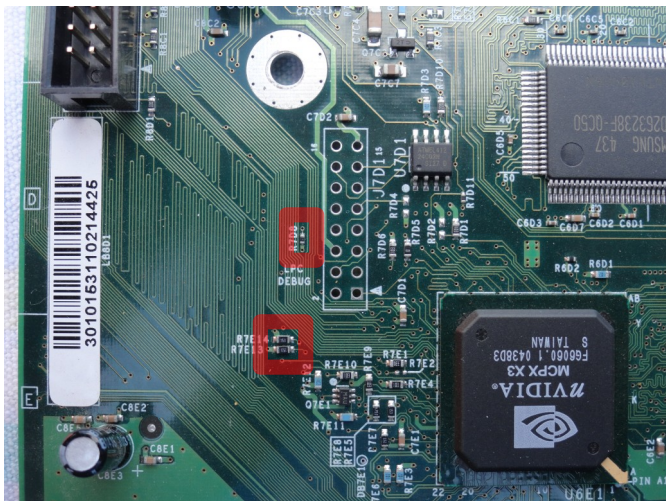
The process is exactly the same for console versions 1.2 and 1.3, the only difference is the top side D0 location. However I would highly recommend the "Pin Header" installation method for motherboards that don't have the LPC filled with solder like the version 1.0!

Version 1.4 - 1.5



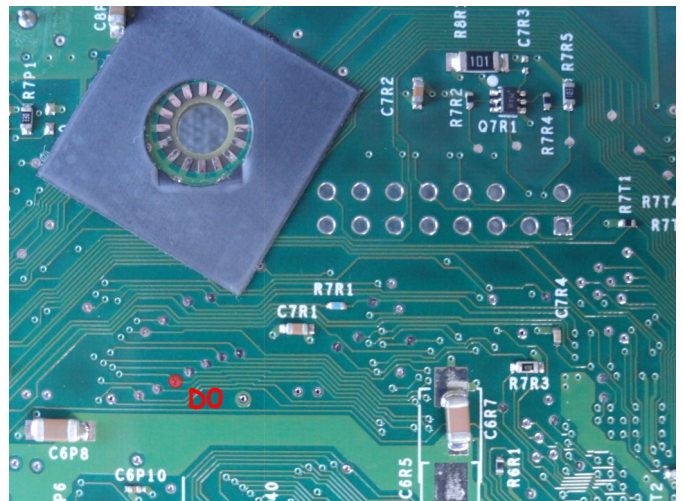
Again the process is exactly the same for console versions 1.4 and 1.5, the D0 location is the same as versions 1.2 and 1.3. But for this installation I have shown the extra points required for a version 1.5 console, continue to use Kynar Wire with the aid of flux.

Version 1.6



Considering that the LPC needs to be rebuilt on v1.6 consoles, I would only recommend the "Pin Header" install method. Secondly some components are in different locations preventing a good fit.

Alternate D0



Above is the location of the alternate D0 point located underneath the motherboard on console versions 1.0 to 1.5. This point does not have any masking and can be soldered to very easily.

Disclaimer

By purchasing an Xenium you agree that the usage of this product is strictly your responsibility. XeniumMods is not responsible for any damage or loss of data caused during the installation or use of the Xenium.

The Xenium is designed for use as a development tool or as a device to perform certain repairs and is shipped with blank bios banks so that the end user is able to install their own bios. XeniumMods is aware that various hacked bios versions are available that may contain copyrighted code and can be used for piracy. The primary purpose of this device is it encourage users to exploit the full capabilities of their Original Xbox Console.

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