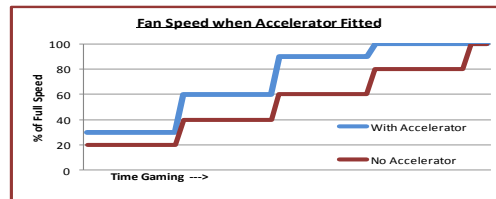


## Xbox 360 Fan Accelerator

This is a small module that is inserted between the fan and the mainboard of an Xbox 360 so that the speed of the fans are increased by about 50% of the speed set by the console. The module automatically tracks the speed demanded by the console so there is never any unnecessary noise created by the fans running at excessive speed.

As the temperature of the console rises so does the fan output from the mainboard. The accelerator keeps track of this and raises the speed of the fans accordingly, but by an additional 50% of the required speed. Similarly, as the console cools the accelerator tracks the output from the console and the fans slow down, always keeping 50% ahead of the console's requirement.

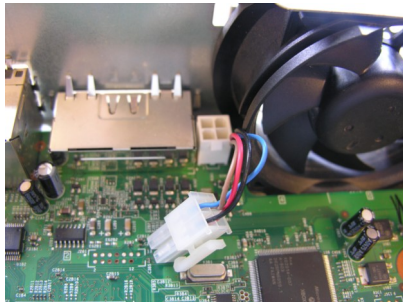


### Fitting Details

**BEFORE YOU BEGIN, PLEASE NOTE THAT OPENING YOUR CONSOLE TO FIT THIS UNIT WILL INVALIDATE YOUR WARRANTY. NO RESPONSIBILITY WILL BE ACCEPTED FOR DAMAGE OR INJURY CAUSED DURING THE INSTALLATION OF THIS MODULE.**

The disassembly of your Xbox 360 is quite straightforward, and details may be found on numerous websites as well as on Youtube, therefore that information will not be repeated here.

Having removed the shell, DVD drive and air duct from the console, unplug the fan connector and check that it matches the connector on your module. There are two different types; the 4-pin connector that was fitted to the earlier non-HDMI models, and the 3-pin connector fitted to the HDMI models. If your connector does not match, then contact me for a swap.

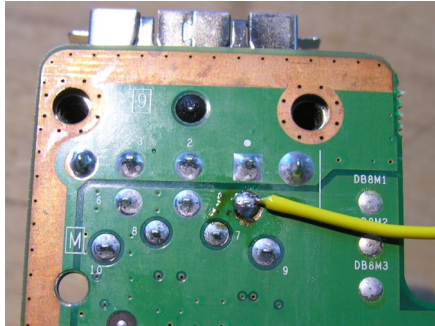


Original version fan connector

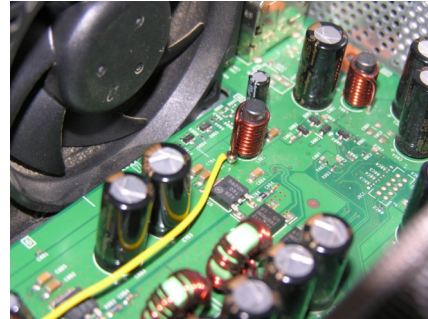


HDMI version fan connector

The next thing to do is to decide where the yellow 12 volt supply wire is to be connected. Ideally, it should be soldered directly to the power connections on the underside of the mainboard, which will of course require the mainboard to be removed completely. An alternative is to find one of the many 12V points on the topside of the board. One such point is at one side of the coil designated L8B1, as shown in the illustration overleaf. Note that if using this point for your connection make sure that the wire is attached and soldered at the very bottom of the coil, next to the PCB as that's the only point at which there is no varnish.



**Preferred termination point**

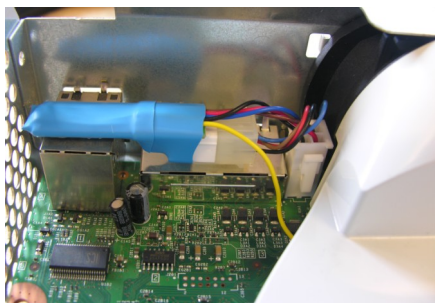


**An alternative termination point**

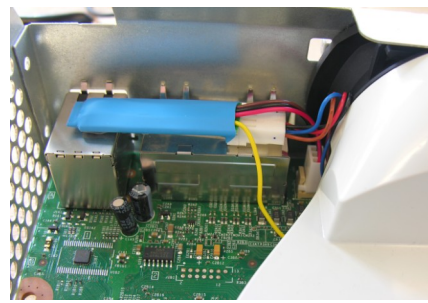
Once the location has been decided, solder the yellow wire from the module in place. When soldering the wire be careful of the surrounding components and ensure that the connection is a good one; if this connection were to fail, the fans will stop working! Once this has been done, the hardest part of the mod has been completed!

Replace the mainboard if it was removed completely, being careful not to nip the wire and to route it clear of the fans

The plug of the accelerator module can now be inserted in place of the fan plug and the fan is now plugged into the socket on the module. The module can be laid on top of the video socket as shown below. For neatness, a small piece of double-sided tape will help keep it in place.



**Module fitted and connected, air duct in place  
(Non-HDMI Xbox)**



**Module fitted and connected, air duct in place  
(HDMI Xbox)**

That concludes the fitting of the module. Your Xbox may now be reassembled and tested.

For further information or support, please email [circuitsurgeon@btinternet.com](mailto:circuitsurgeon@btinternet.com)



© Circuit Surgery 2012. No part of this publication may be reproduced in any form, whether physically or electronically without prior written consent.