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## Macintosh XL : After Hard Disk is Swapped It Won't Boot

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**PROBLEM DESCRIPTION:** After swapping the hard disk assembly (Widget), the hard disk will not boot or is not recognized as being attached to system. But the hard disk will boot if the hard disk assembly is removed while leaving the cables connected.

**CAUSE:** 1. The hard disk/micro disk assembly fits snugly into the Mac XL's cabinet. A number of screws terminate inside the disk assembly mounting area. These two factors make it very easy to accidentally damage the grey flat cable or the drive power cable when sliding the disk drive assembly into the XL.

2. A screw projects from the right of the main body of the Lisa cabinet into the Disk Drive cavity. On some Lisas, this screw interferes with a comfortable installation of the drive cage forcing the right rear lip of a metal shield on the HDA down. This stresses the motherboard on the HDA causing potentiometers on the HDA's PCB to misadjust.

**CURE:** 1. Replace the hard disk's grey flat cable. When reinstalling the disk drive assembly, remove the XL's top to help you to guide the assembly into its mounting place without damage.

2. Cut off the offending screw and if permanent visible damage has occurred to the PCBs, replace the HDA.

If this cure does not resolve the problem, go to the Tech Procedures to obtain a General Troubleshooting procedure.

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