

VXL-30 ACCELERATOR

Configuration, Chip Installation, and Upgrade Notes

WARNING: Clocking the CPU or the FPU at speeds higher than their rated value voids your warranty

68000 INSTALLATION

The 68000 CPU chip from your Amiga must be re-installed onto the VXL-30 board. The chip should be oriented with its head end (notched end) pointing down. If you have trouble lining up the pins of the chip with the socket holes, you may have to straighten the legs of the chip by carefully pressing each long side of the chip against a hard flat surface at a right angle until the legs are parallel with each other.

FPU JUMPER BLOCK

Jumper on middle and lower pin (illustrated) sets FPU clockspeed to that of CPU. If FPU clock chip is installed, FPU speed is clocked by it when jumper is moved to middle and upper pins (FPU chip speed must be matched to or exceed that of the clock chip). Note that the clock chip is installed with its notch pointing up.

FPU INSTALLATION

Either a 68882 or 68881 FPU chip may be installed. The FPU chip package type MUST be PLCC (not the more common PGA type). Note the orientation of the "dimple" on the chip (pointing to the left).

FPU CLOCK CHIP INSTALLATION

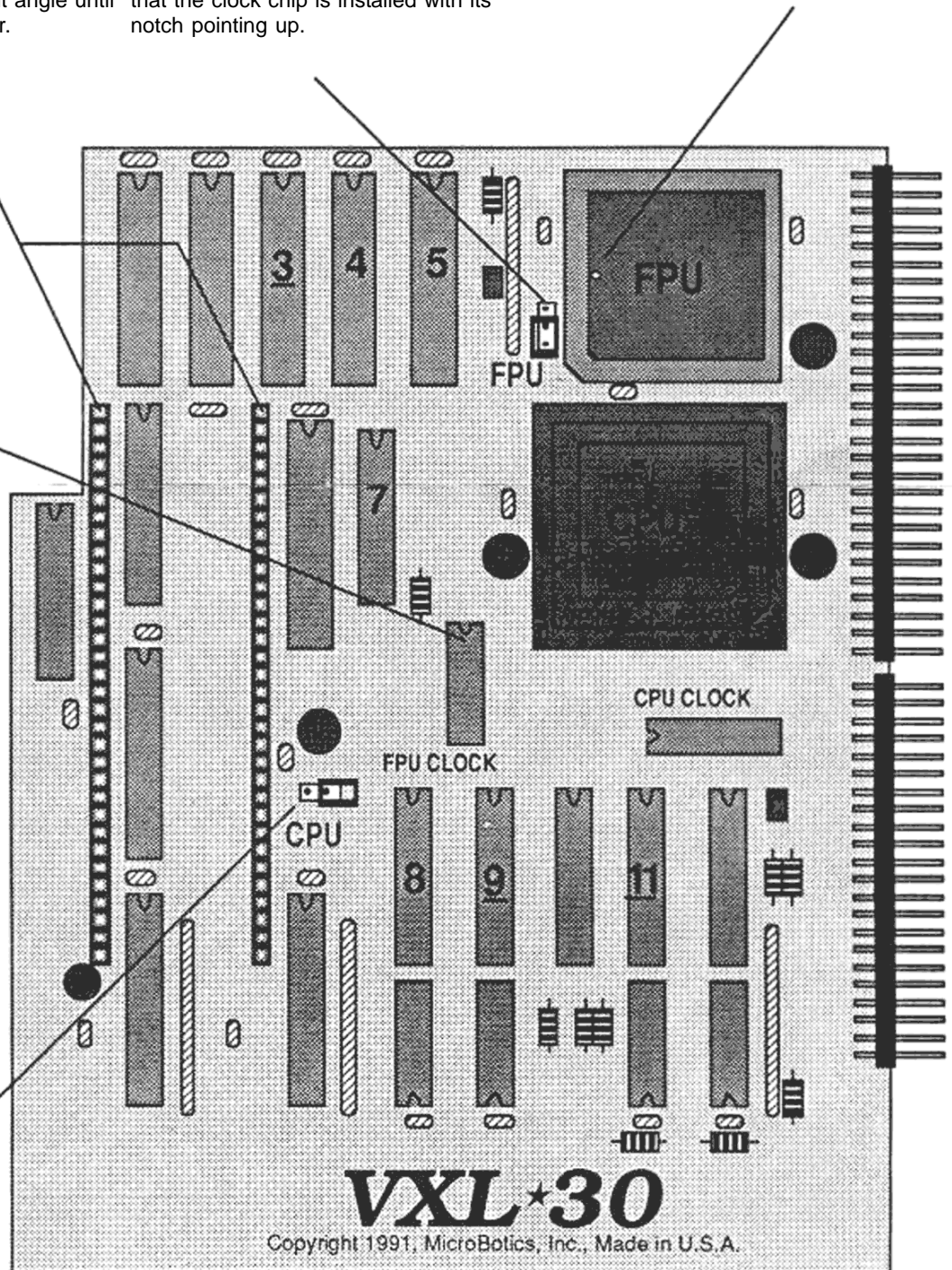
This chip will only be found installed on VXL-30's shipped with math chips having clock speeds different from that of the CPU. Usually, the math chip and the processor are the same speed, so this socket will most often be shipped unpopulated. The "head" end of a clock chip has either a black dot or a notch on it.

FAST PAL UPGRADE

If your VXL-30 came with a 25Mhz CPU, and you wish to install a faster CPU, you must install faster PAL chips bearing numbers matching the positions marked "3", "9" and "11" on the diagram. If your VXL-30 serial number begins with "V-1", you must also replace PALS 4, 5, 7, and 8. Replace the 25Mhz CPU clock with a faster one. Move the 25Mhz clock to the FPU socket on the board. See the FPU Jumper Block instructions. A fast PAL kit including seven (kit V-1) or three (kit V-2) PAL chips and a 40 or 50Mhz clock is available from MicroBotics.

COLD BOOT CPU DEFAULT

The VXL-30 board is shipped with CPU jumper OFF (hanging onto just one of the pins). This means that your Amiga will power up using the 68030. If you wish to cold boot your Amiga using the 68000, then set the jumper ON both pins.



 **MicroBotics, Inc.**

Amiga Hardware World

Everything about Amiga hardware...

~

<http://amiga.resource.cx>