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400MB HDA: Standard LED Is Not supported

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TOPIC -----

My Quadra 700 won't start up from the hard drive nor from the floppy. However, if the drive power cable is removed and the Quadra is then turned on, it starts up from the floppy. If the power cable is then plugged back into the hard drive, it won't mount and the system hangs.

My dealer hasn't changed any of the jumpers on the three HDA connectors, but he did add a standard LED cable to J7.

DISCUSSION -----

J7, located on the opposite end of the SCSI connector, has pins for a secondary SCSI select, as well as a sync spindle feature, and LED. The two pins for the LED, when using the standard LED cable, are what caused this customer's problem. Pin 10 (bottom pin) is the anode connector, which connects in the drive to the +5V supply through a pull-up resistor. Pin 9 (bottom pin), the cathode connection, connects in the drive to signal common through the emitter-collector junction of a transistor switch that controls the LED on/off condition.

If an LED is used, as in the Quadra 700, the proper 400MB LED cable (P/N 590-0248) should be used.

By using the standard LED cable, which is not designed correctly for this drive and is not Apple approved, the power line is held down, causing the system to fail. By removing the power cable from the drive, the +5V power line is normal and the system starts up fine.

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