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LaserWriter Select 360: Using the Built-in Diagnostics (8/94)

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TOPIC -----

According to the Service Source CD, the built-in diagnostics for the LaserWriter Select 360 are invoked by removing jumper JMP1 from the I/O controller and setting the mode switch to 9. The board we received didn't have JMP1 present. Should JMP1 be present? What is JMP1 used for?

DISCUSSION -----

There are five diagnostic levels available on the the LaserWriter Select 360 controller including the standard power-on self test (POST), extended power-on self test, system diagnostic mode, burn-in mode, and functional test mode. The standard power-on self test runs whenever JMP1 is missing and the printer is powered on by the user. As long as there are no problems detected the test should be complete within 5 seconds. The extended power-on self test runs if JMP1 is missing and the rotary switch has been set to position 9. This test takes up to 2 1/2 minutes to complete and uses the LED's to relay failure information to the service provider. The failure codes are documented on the Service Source CD in the printer diagnostic section.

If the two pin jumper JMP1 on the I/O controller is in place then the printer goes into a burn-in mode that is used only during the manufacturing process. The LED's flash in a 'heartbeat' pattern while the controller is fully exercised. The functional and system diagnostic modes require additional printer configuration beyond what's described above in addition to an RS-232 connection that can be used to download diagnostic codes. Neither of these diagnostic modes are documented for use outside of Apple.

All finished goods printers and service stock I/O controller boards should not have JMP1 in place. The jumpers are supposed to have been removed during the manufacturing process. If you find customers who have the JMP1 jumper in place then just remove it prior to returning the printer. The jumper will not interfere with the operation of the printer unless the rotary switch has been set to position 9.

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