LaserWriter II: Forcing DC Controller into Ready State (9/94)

Article Created: 26 September 1994

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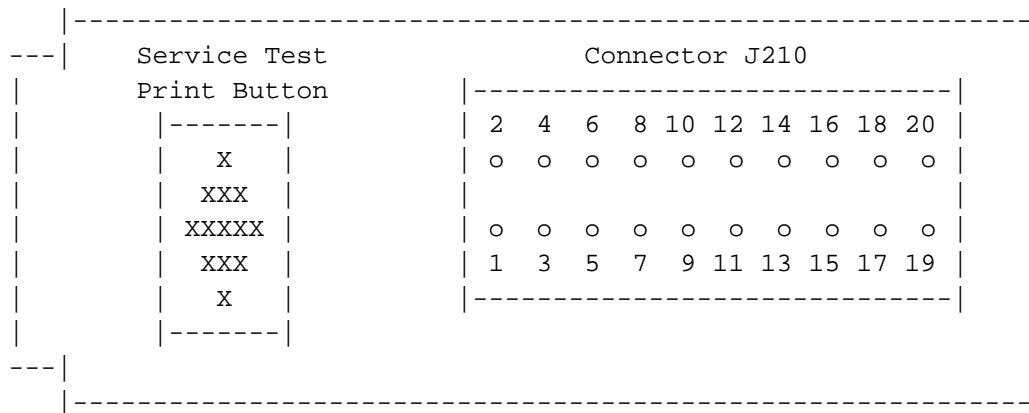
TOPIC ---

Are they any diagnostic tools available from Apple that allow technicians to
force the LaserWriter II print engine into a ready-state even though the printer
has detected a fault condition?

DISCUSSION --

Connector J210 on the LaserWriter II DC controller which can be used to force
the print-engine into a ready-state. Once the printer is in a ready-state try
generating several service test prints to see if the source of the fault can be
detected. Carefully inspect the paper feeding, imaging, and fusing processes.

Connector J210 is located to the right of the service test print button. It is
visible once the small metal cover plate is removed.

```
    |----------------------------------------------------------|
---|     Service Test                 Connector J210           |
|       Print Button        |-----------------------------|    |
|         |-------|         | 2   4   6   8 10 12 14 16 18 20 |    |
|         |   X   |         | o   o   o   o   o   o   o   o   o   o |    |
|         |  XXX  |         |                             |    |
|         | XXXXX |         | o   o   o   o   o   o   o   o   o   o |    |
|         |  XXX  |         | 1   3   5   7   9 11 13 15 17 19 |    |
|         |   X   |         |-----------------------------|    |
|         |-------|         |                             |    |
---|                                                          |
    |----------------------------------------------------------|
```

By connecting certain pins to ground, either chassis or signal, different engine
tests can be performed. One of the simplest methods is to connect one end of an
alligator clip lead to the metal chassis and connect the other end to a small
probe such as a T-pin or paper clip. By touching the tip of the T-pin to the

designated pins the tests can be performed. Use the diagram above to properly
locate the required pins. The following options are especially useful:

```
Pin    Description
---    -----------
 4     Turns on DC developing bias voltage.
 6     Turns on AC developing bias voltage.
 7     GND
 8     Turns on DC primary corona voltage.
10     Turns on DC transfer corona voltage.
14     Generates a test print. This is the same as using the service test
       print button.
15     Forces print engine into a ready state as long as this pin is
       connected to ground.
17     Forces the laser diode on. Anytime the laser diode is on, the printed
       output should be black.
19     Forces scanner motor to rotate. Scanner motor sound should stabilize
       after a few seconds.
```

When shorting together pins on connector J210 be very careful not to short
adjacent pins or you may damage the DC controller.

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19960215 11:05:19.00

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