

PRINTER TECH ARTICLE

LJ 4000/4050, 4100: A summing up

Those new to the field of laser printer service would benefit from a summing up of typical issues of popular laser printers. This month we will look at the HP LaserJet 4000/4050 and the 4100, which are reliable machines that were introduced more than a decade ago and are still widely used.

Light Print. Turn Economode off, if on. Then try replacing the laser scanner, 3 in Diagram 1. Could also be the engine controller board.

13 Paper Jam. See the paper jam article.

Paper Pickup Problems. Consult the second section of the paper jam article. Should you need to replace a pickup drive assembly, see the article on page 11.

False Load Paper or Unexpected Paper Size Messages. The feeder controller pca, in addition to driving the cassette pickup solenoid, detects paper size. Should it fail to detect paper size correctly,

bewildering prompts to load paper result. There are four kinds of this board, so check the chart on page 11 to find the correct part number.

False 41.3 error. The size detections switches on the feeder controller pca have failed. The error also can also be caused when a worn feed or separation roller slows the timing of the paper.

41.5 error/Blank Page. This is commonly caused by the paper feed assembly (15 in Diagram 1), but first, check the front of the cassette and make sure the separation roller and the torque limiter are clipped into each other. Then replace the paper feed assembly. A third option is a faulty registration/feed sensor assembly, 12 in Diagram 1

Unfused print on labels. In the Paper Handling Menu, go to tray one type and set it to labels. Next, set Configure Fuser Mode Menu to "Yes". In the sub menu, change the settings for labels to high.

Unrequested engine tests. Remove the left panel and locate the engine test switch on the engine controller board, just below and behind the fan. Spray contact cleaner into this switch. If that fails, replace the engine controller board.

Notes:

- The tray 1 pickup asm. for the 4000/4050 & the 4100 interchange. However, this may cause the optional envelope feeder to lose functionality.
- Replacement D-rollers and feed guide belts may have a different appearance from the original parts.

