

## Fan Errors in the 5Si/8000, 8100/50

Most (if not all) laser printers have at least one cooling fan, to prevent internal parts from overheating. Because overheating can damage the printer, it is important to alert the user if a fan should fail. So most printers monitor fan rotation and generate an error code if the fan stops running (or even slows down). In a small printer with only one fan, this is a simple "57 SERVICE" error. In a larger printer with multiple fans, the error code is broken down: 57.1, 57.2, etc., with the number after the decimal point indicating which fan has the problem.

In theory, this is all still very simple, provided you have the service manual to decode things. A given error code points to a specific fan, which has a specific part number, and all the details can be found in the service manual. However, during the evolution of 5Si to 8000 to 8100 to 8150, HP decided to change some

of the error codes and some of the part numbers (as well as adding an extra fan to the 8100/8150), and they ended up confusing not only us but themselves as well – there are errors and inconsistencies in the manuals. By following the manual, you can end up buying the wrong fan for the error that you have.

So we did some research to find out which fans are actually in the printers, and what errors are caused when these fans don't rotate. Results are in the following table. The table also shows which connector on the DC controller each fan plugs into. By following this table, you will be sure to get the correct fan.

—Dennis Kosterman

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FAN ERRORS				
Printer Model	Error Code	Fan	Part Number	dc Cntr. Connector
5Si	57.1	Laser/Scanner	RH7-1266	J 208
	57.2	LVPS	RH7-1266	J 216
	57.3	Formatter	RH7-1271	J 210
	57.4	FD Delivery	RH7-1289	J 225
8000	57.2	Formatter	RH7-1271	J 210
	57.3	LVPS	RH7-1266	J 216
	57.5	Laser/Scanner	RH7-1266	J 208
	57.6	FD Delivery	RH7-1289	J 225
8100/8150	57.2	Formatter	RH7-1271	J 210
	57.3	LVPS	RH7-1266	J 216
	57.5	Laser/Scanner	RH7-1396	J 208
	57.6	FD Delivery	RH7-1289	J 225
	57.9	Tray 1	RH7-1397	J 229