

Table 7-37 Causes for misplaced image (continued)

Cause	Solution
The oblique rollers are worn (this issue applies to duplex printing only; HP CLJ 4600 and 4650 models only).	Replace the oblique rollers.
The DC controller PCA is defective.	Replace the DC controller PCA. Calibrate the printer after replacing the DC controller. See Calibrate Now (HP Color LaserJet 4600 models) or Full Calibrate Now (HP Color LaserJet 4610n and 4650 models) .

Repetitive defects troubleshooting

Defects on printer rollers can cause image defects to appear at regular intervals on the page. Use the repetitive defects ruler on the next page ([Figure 7-3 Repetitive defects ruler \(1 of 2\)](#)) to measure the distance between defects that recur on a page. Use the [Table 7-38 Repetitive defect spacing](#) table to determine which roller is causing the defect. To resolve the problem, try cleaning the roller first. If the roller is still dirty after cleaning or if it is damaged, replace the indicated part.



CAUTION Do not use solvents or oils to clean rollers. Instead, rub the roller with lint-free paper. If dirt is difficult to remove, rub the roller with lint-free paper that has been dampened with rubbing alcohol.



NOTE The letter codes before certain roller names in [Table 7-38 Repetitive defect spacing](#) correspond to the letters at the top of the repetitive defects ruler in [Figure 7-3 Repetitive defects ruler \(1 of 2\)](#). Not all rollers are shown in the ruler.

Defects on the cassette or the multipurpose-tray pickup roller cause defects only on the leading edge of the image.

Table 7-38 Repetitive defect spacing

Roller	Distance	Type of defect	Replacement part
A Toner charging roller	14 mm		Print cartridge
B Developing cylinder	33 mm	Defect on front of paper	Print cartridge
C Primary charging roller	38 mm	Blank spots	Print cartridge
D Toner feed roller	39 mm		Print cartridge
E Media attaching roller	38 mm	Defect on front of paper	ETB
F Fuser pressure roller	63 mm	Poor fusing	Fuser
G Photosensitive drum or transfer rollers (center-to-center distance)	75 mm		Any print cartridges that have a damaged photosensitive drum or the ETB
H Photosensitive drum	94 mm	Defect on front of paper Blank spots	Print cartridge
J Fuser sleeve	107 mm	Poor fusing	Fuser
Cassette feed roller	54 mm	Defect on front of paper	Cassette
Cassette feed sub roller	44 mm	Defect on back of paper	Cassette

Table 7-38 Repetitive defect spacing (continued)

Roller	Distance	Type of defect	Replacement part
Registration roller	54 mm	Defect on back of paper	Paper pickup assembly
Registration sub roller	57 mm	Defect on front of paper	Paper pickup assembly
Fuser delivery roller	38 mm	Defect on back of paper	Fuser
Face-down delivery roller	49 mm	Defect on back of paper	Fuser
Cassette pickup roller	See the note above this table	Defect on front of paper	Paper pickup rollers
Multipurpose-tray pickup roller	See the note above this table	Defect on back of paper	Multipurpose-tray pickup roller assembly

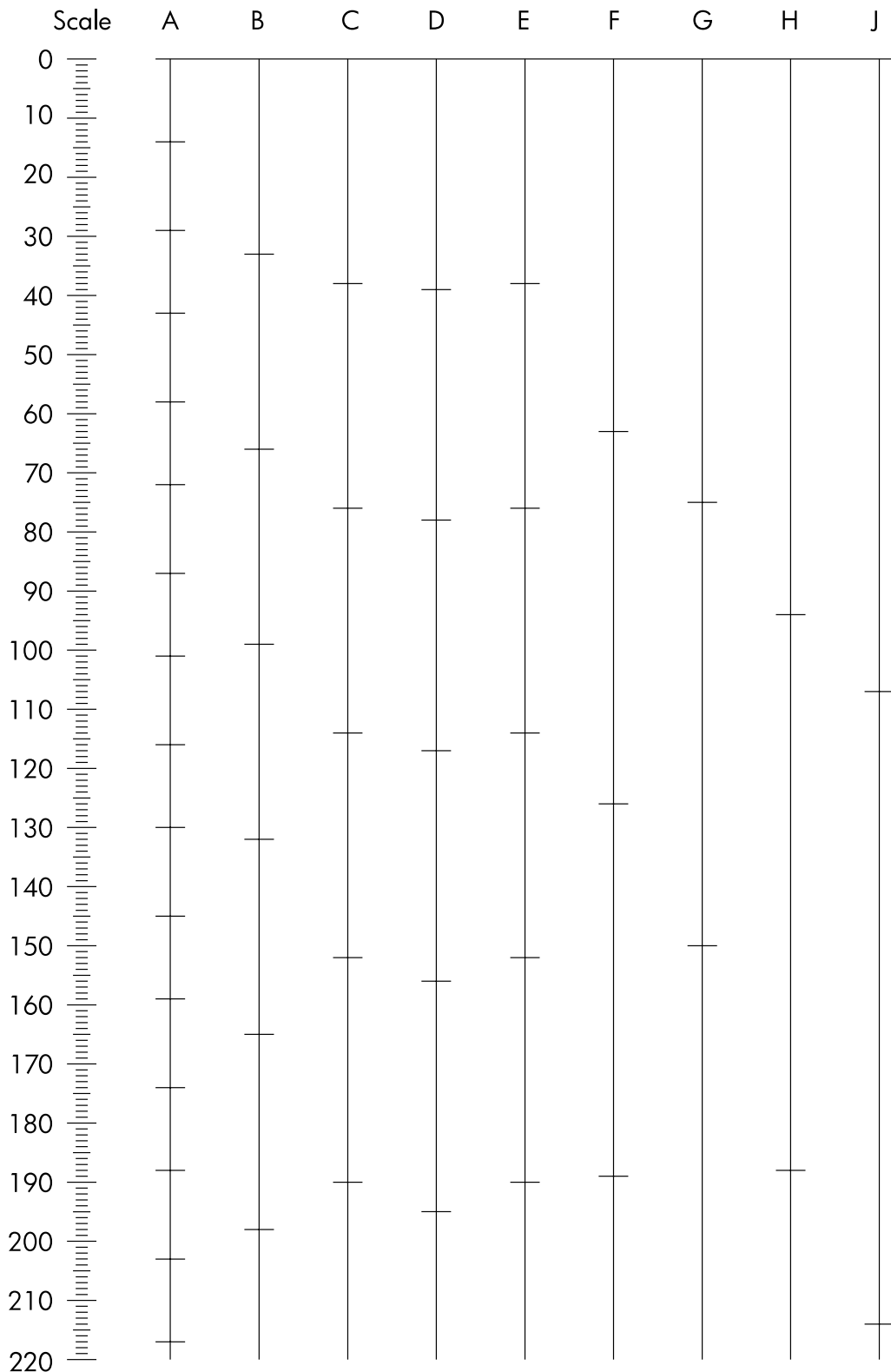


Figure 7-3 Repetitive defects ruler (1 of 2)



NOTE [Figure 7-3 Repetitive defects ruler \(1 of 2\)](#) might not print to scale and should only be used as a reference tool.

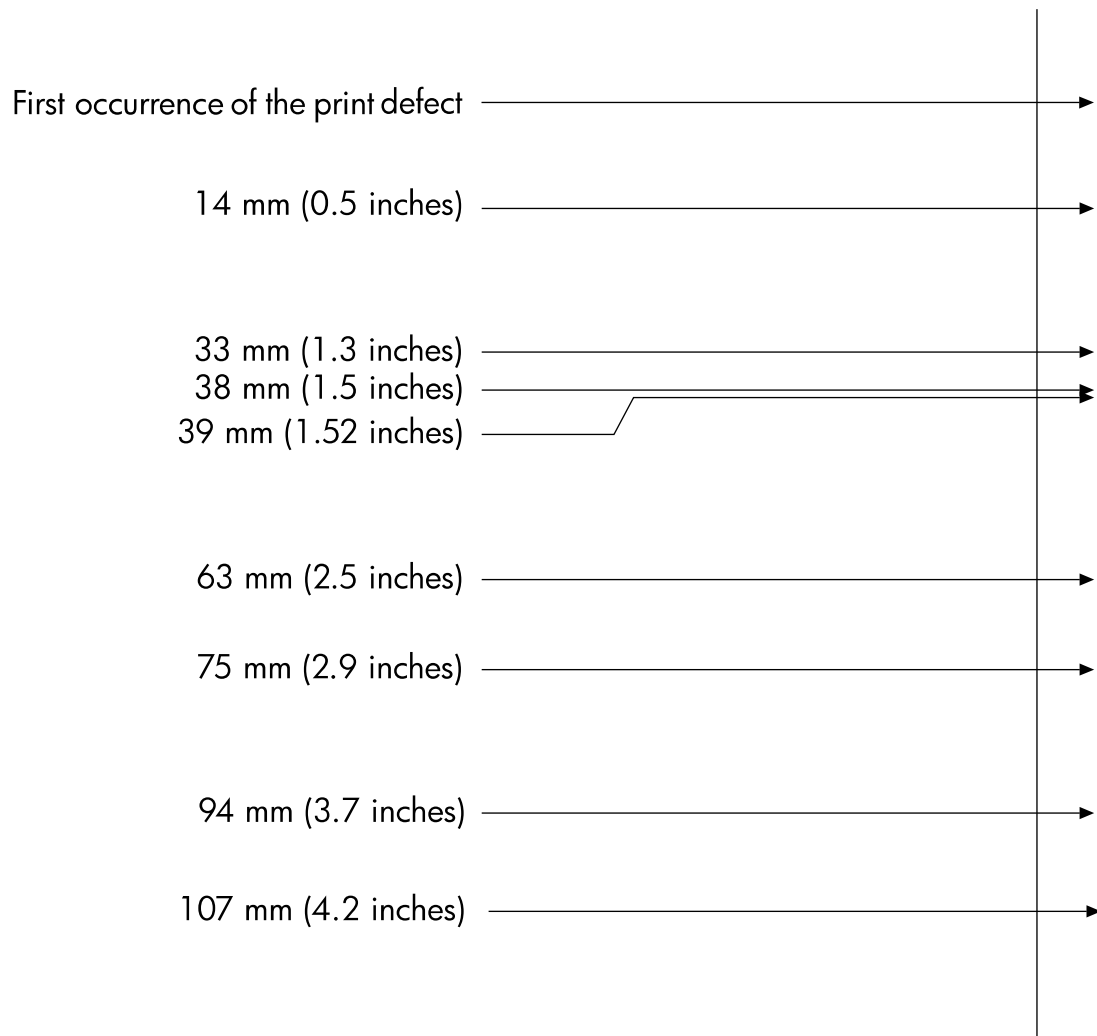


Figure 7-4 Repetitive defects ruler (2 of 2)