


# Print-quality troubleshooting tools

## Repetitive image defects

If the product output has a consistent, repetitive defect, then use the table in this section to determine which part needs to be replaced based on the measured distance between the repetitions of the defect.

 **NOTE:** The following table replaces the graphical repetitive defect ruler. You can make your own ruler by using these measurements. For the most accurate results, use a metric ruler.


**Table 7-9 Repetitive image defects**

Distance between identical defects	Component	Notes
22.3 mm (0.87 in)	Developer roller (one rotation)	Appears in a single color plane.
26.7 mm (1.05 in)	Charger roller	Appears in a single color plane.
28.5 mm (1.12 in)	Developer RS roller (one rotation)	Inside developer and the removes and supplies toner to the developer sleeve.
44.0 mm (1.73 in)	Registration roller	
56.5 mm (2.22 in)	Fuser film (one rotation)	Appears in all color planes.
56.8 mm (2.23 in)	Fuser pressure roller (one rotation)	Appears in all color planes.
57.0 mm (2.24 in)	Transfer roller	Appears in all color planes.
69.0 mm (2.71 in)	Cartridge-to-cartridge spacing	Distance between each color OPC.
75.8 mm (2.98 in)	OPC drum (one rotation)	Appears in a single color plane and might be either a dark or white spot.
633.6 mm (24.94 in)	ITB	Because the ITB is longer than a page, you might have to look at multiple pages to determine if repetitive defect is present.

## Calibrate the product

Calibration is a product function that optimizes print quality. If you experience any print-quality problems, calibrate the product.

### Calibrate the product from the control panel

1. Press **Setup** .
2. Use the arrow buttons to highlight **System setup**, and then press **OK**.
3. Use the arrow buttons to highlight **Print quality**, and then press **OK**.
4. Use the arrow buttons to highlight **Calibrate Color**, and then press **OK**.
5. Use the arrow buttons to highlight **Calibrate Now**, and then press **OK**.