



1. REAR-LEFT COVER: TAB (upper arrow), RETAINER (middle arrow) & SCREW (lower arrow)

PRINTER TECH ARTICLE

Grinding & Binding in the CP6015, CM6030/40

There are other parts in the fuser drive system that could cause grinding noises and gear binding. If you experience these issues without getting a 50.7 error, we recommend replacing the following parts:

- RM1-3247 Fixing one-way gear asm (just the gears)
- XG9-0586 Ball bearing
- RU5-0791 34-tooth gear
- RU5-0790 Fuser drive gear (83T/25T)
- RM1-4519 Fuser motor

In the unlikely event that you get a 50.7 error and replacing the one-way gear does not work (see related article, p.4) then replacing the above parts would be recommended.

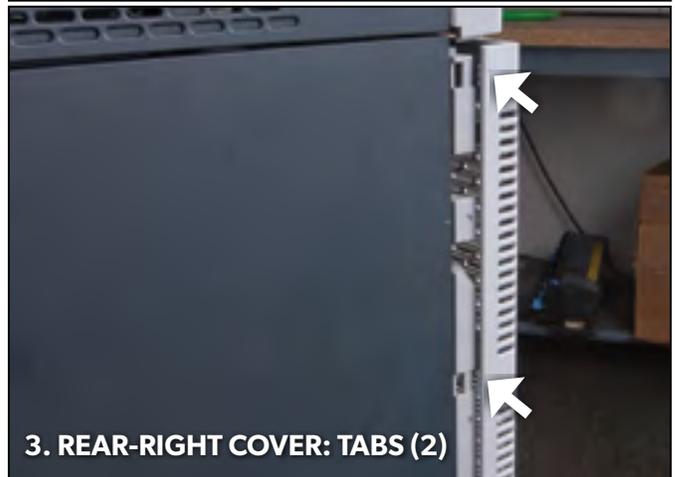
The procedure to replace these parts is not difficult, but we recommend taking precautions against loss of the two e-clips.

1. REMOVE FUSER.

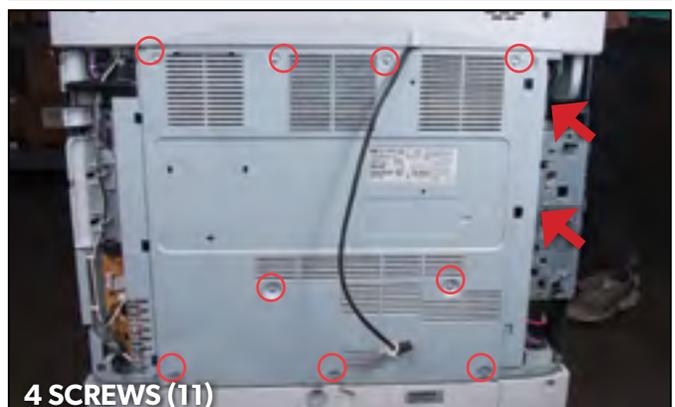
2. REMOVE REAR-LEFT COVER: As you look at the rear of the printer, this cover will actually be on your right. It is the one with the cut-out for the formatter board. To remove it, unplug the scanner/ADF



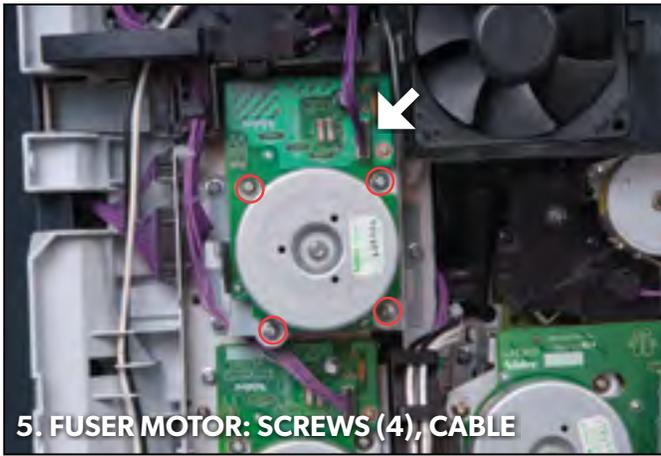
2. REAR-LEFT COVER: TABS (4)



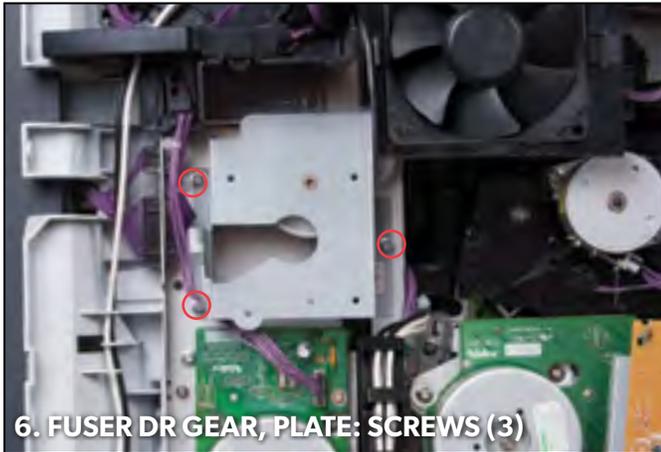
3. REAR-RIGHT COVER: TABS (2)



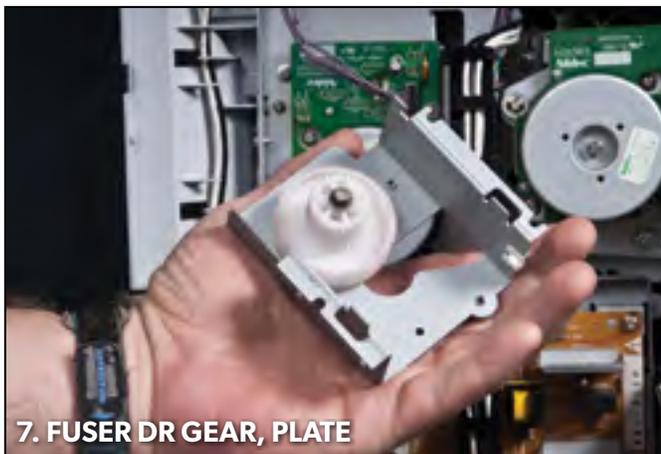
4 SCREWS (11)



5. FUSER MOTOR: SCREWS (4), CABLE



6. FUSER DR GEAR, PLATE: SCREWS (3)



7. FUSER DR GEAR, PLATE



8. ONE-WAY GEAR ASM



cable from the formatter if necessary (CM6030 and CM6040 only), remove one screw at the bottom, release one tab near the top (Fig. 1) and three tabs along the edge (Fig. 2), and pull the cover away from the printer.

3. REAR-RIGHT COVER: This cover is on your left as you look at the rear of the printer. To remove it, remove one screw at the bottom, release two tabs (Fig. 3), and pull the cover away from the printer.

4. REAR COVER: On the CM6030 and CM6040 only, the scanner/ADF cable is secured by a plastic retainer that presses into the rear cover (Fig. 1). Disengage the retainer from the cover by simply pulling it out (this will require some force). Remove two screws from the edge of the cover next to the formatter and nine screws from the rear surface (Fig. 4), and remove the cover. When re-installing, it helps to seat the upper part of the cover first.

5. FUSER MOTOR: Unplug one cable near the top, remove four screws (Fig. 5), and pull the motor away from the printer.

6. FUSER DRIVE GEAR AND PLATE: Remove three screws (Fig. 6) and pull the plate away from the printer. To completely remove it, you will have to disengage cables from the cable guide at the lower left corner, or you can just allow the plate to dangle by these cables until you are ready to re-install it. The fuser drive gear (Fig. 7) slides off of the metal peg on the plate. When re-installing this plate, be sure to hook the upper left corner into its slot before seating the rest of it.

Now you can see the other end of the one-way gear assembly and the 34-tooth gear and e-ring that secure it (Fig. 8). You may or may not need to replace this gear, but either way, it has to come off in order

to remove the complete one-way gear assembly. To remove it, first remove the e-ring (be careful not to drop it into the printer!), then pull the gear off of the shaft. Note that this gear has a keying slot (Fig. 9); when re-installing the gear, this slot must line up with the dowel pin at the end of the shaft. The dowel pin can be seen in Figs. 10 & 11.

To complete the removal of the one-way gear assembly, remove the dowel pin, then go back into the fuser cavity (Fig. 12) and pull the assembly through. It should come out with a ball bearing on the shaft. Make sure that this ball bearing (or a new one if it needs replacing) gets transferred onto the shaft of the new one-way gear assembly before installing it. Fig. 13 shows the proper orientation of the ball bearing on the shaft. When re-installing this shaft, be careful not to dislodge the brass bushing (visible in Figs. 10 & 11).

To re-assemble the printer, simply reverse the above steps.



9. GEAR, 34-T: showing slot



10. DOWEL



11. DOWEL REMOVAL



12. ONE-WAY ASM



13. ONE-WAY ASM with BALL BEARING