

Fusion3

EDGE 3D Printer

MAINTENANCE:

PRINT HEAD SCRUB PAD REPLACEMENT

Revision 3/13/2023

PRINT HEAD SCRUB PAD REPLACEMENT

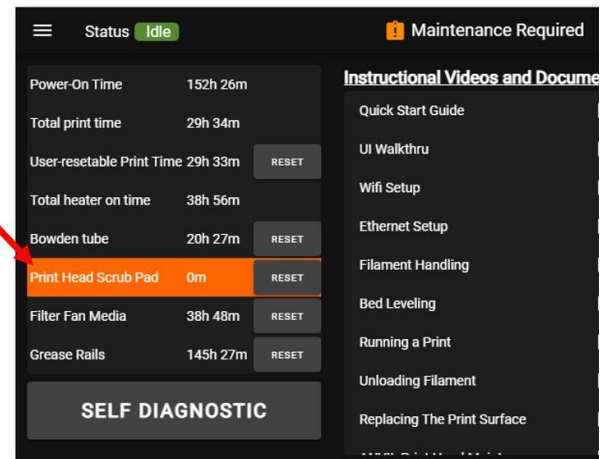
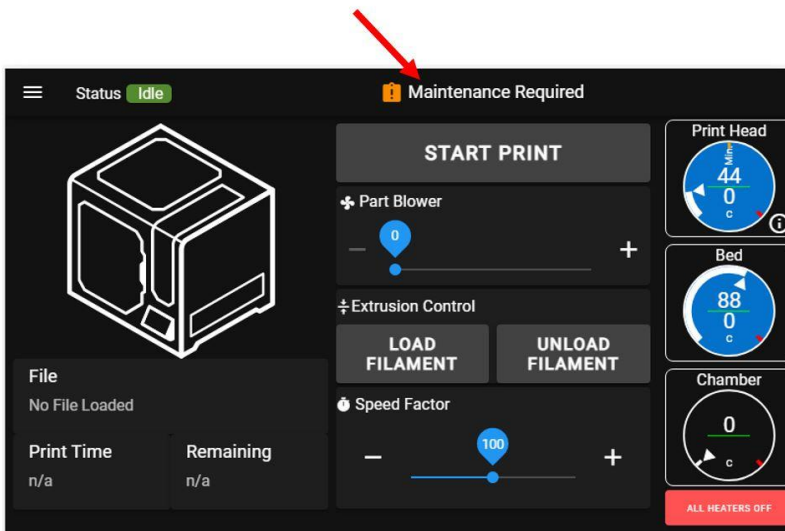
How to replace the print head scrub pad for maximum reliability

The print head scrub pad must be replaced regularly to maintain correct performance of the bed leveling and nozzle offset systems.



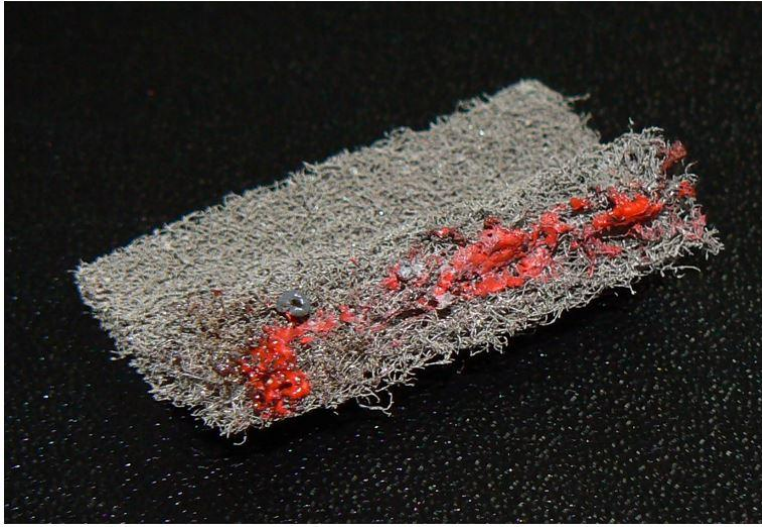
WHEN TO REPLACE

Replaced on a maintenance schedule - notification will appear when due for replacement.



You can also replace the scrubber any time you notice it has become:

- Significantly damaged so that it no longer scrubs the nozzle
- Significantly dirty or full of debris so that the nozzle leaves the scrubber with debris attached

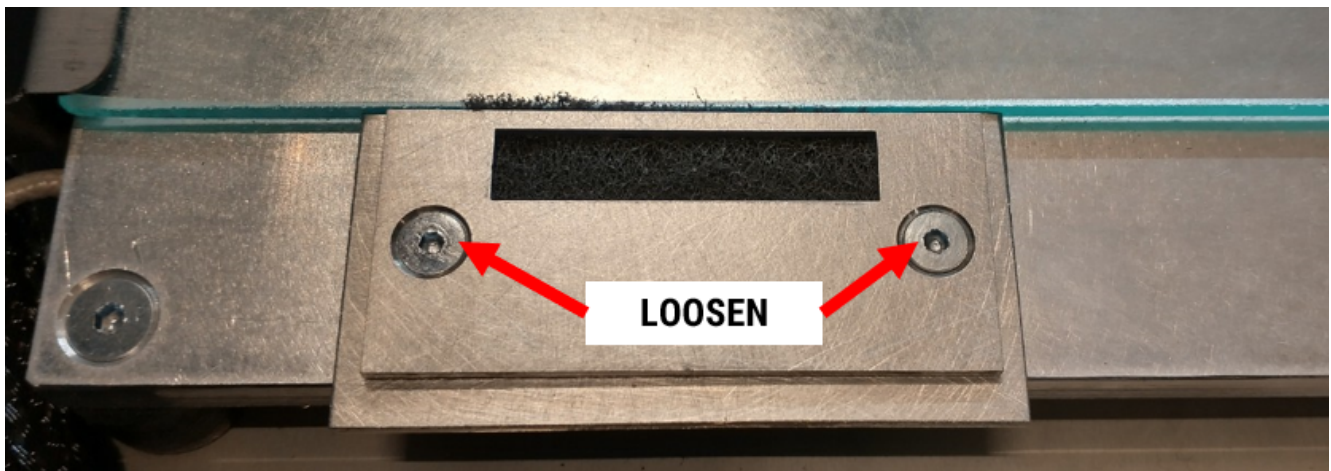
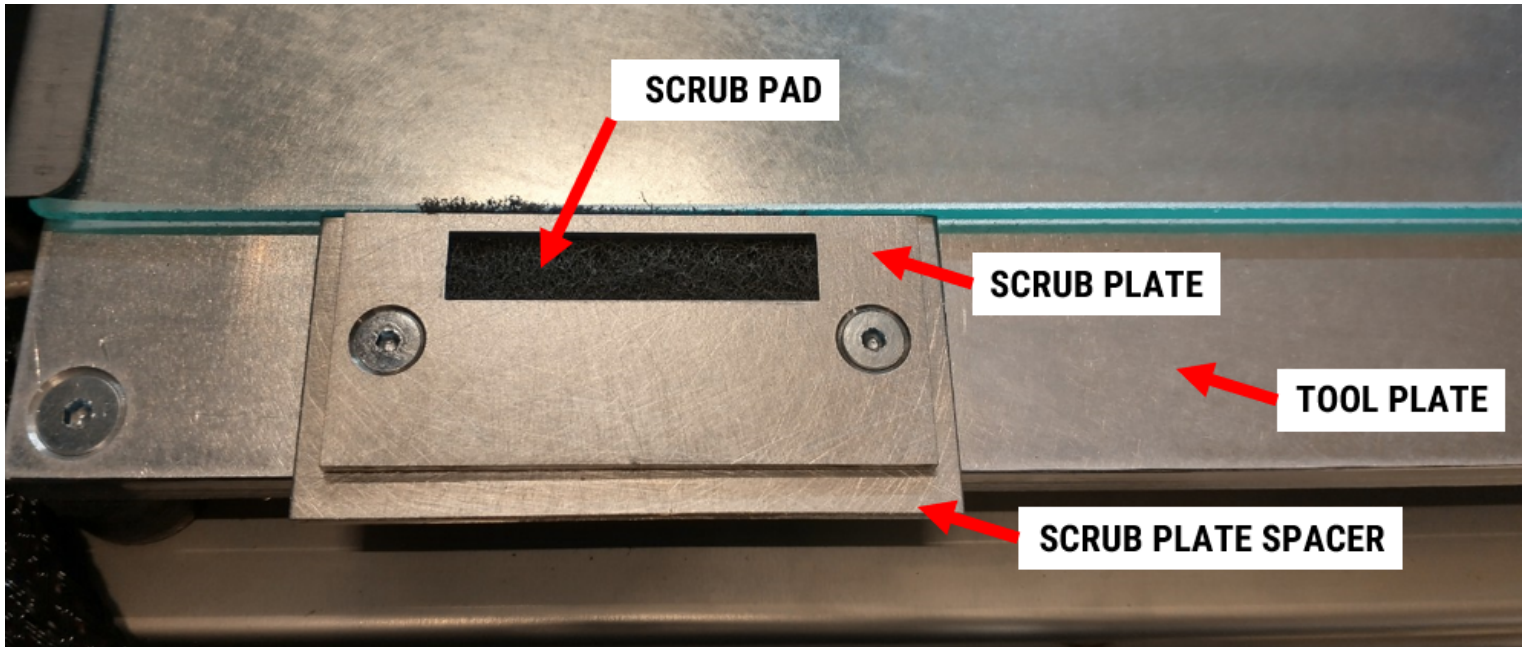


If either of these happen you may see error messages saying the nozzle offset calibration failed, and/or your first layer height will be dramatically wrong.

Remember to reset the scrubber replacement timer if you replace it outside of the normal maintenance schedule.

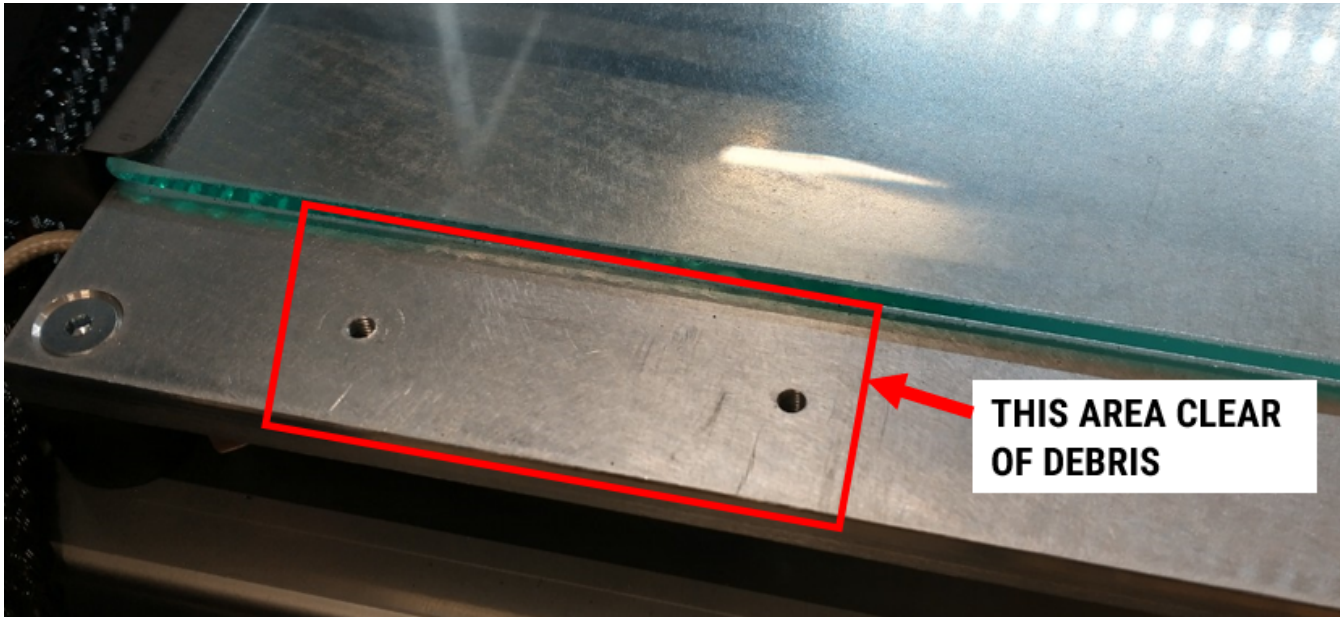
HOW TO REPLACE

1. EDGE should be idle and cold (bed & print head).
2. Move the Z axis to the bottom, either by hand or using the jog controls on the *Control* screen.
3. Use the 2mm hex drive from your toolkit to remove the 2 M3x6 FHCS screws that hold the scrub plate down.

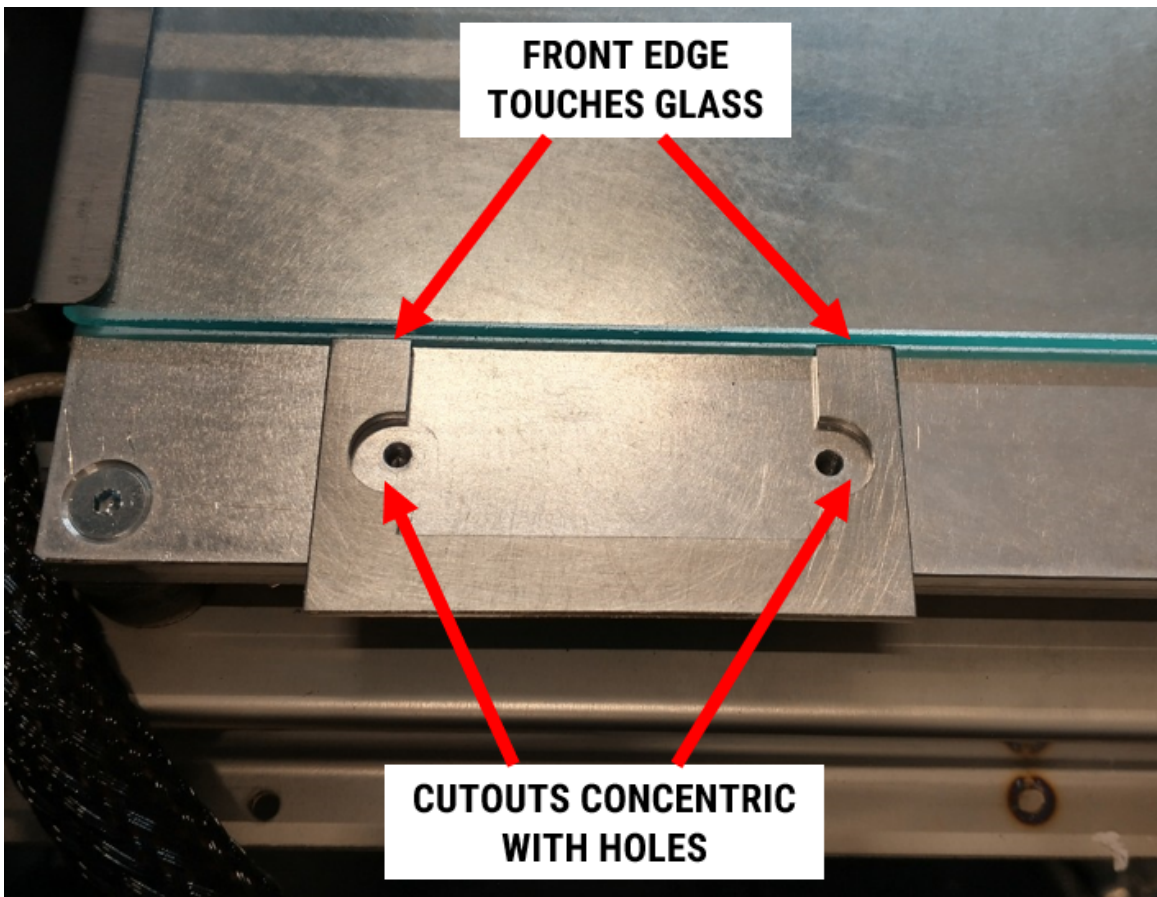


4. Remove the scrub pad and discard it.

5. Make sure the tool plate is clear of debris underneath the spacer. If there is debris on the tool plate, it will make the scrub plate spacer and scrub plate sit crooked and defeat the whole purpose of the spacer. Brush it off as needed.



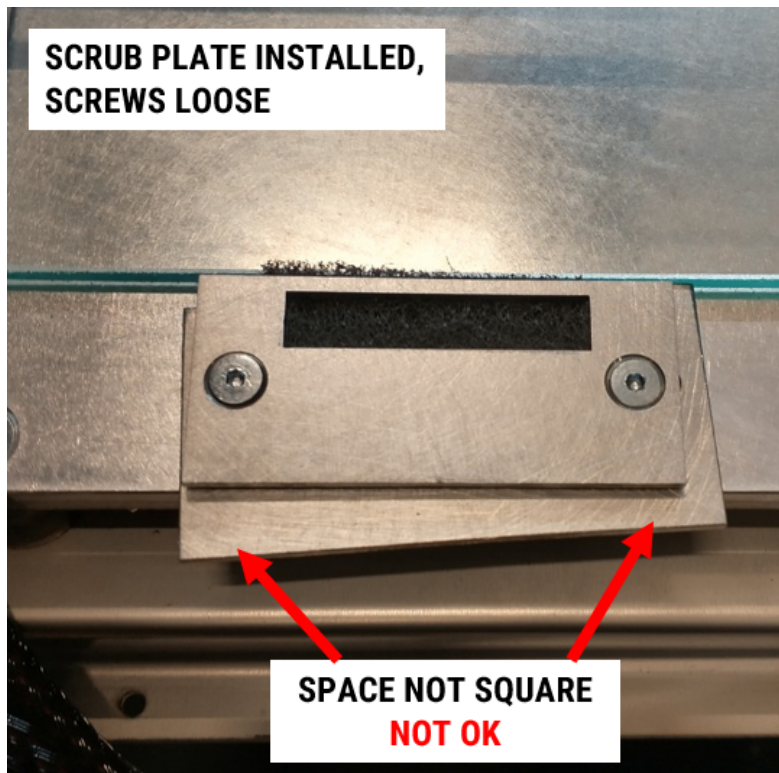
6. Position the spacer so that the circular cutouts are concentric with the holes in the tool plate.



7. Position the scrub pad in the cutout as shown.

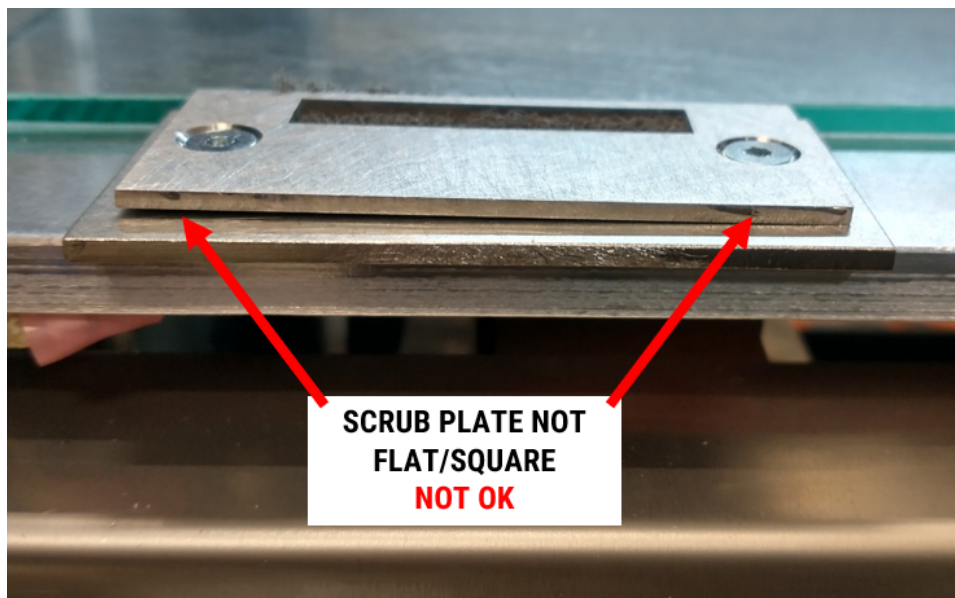
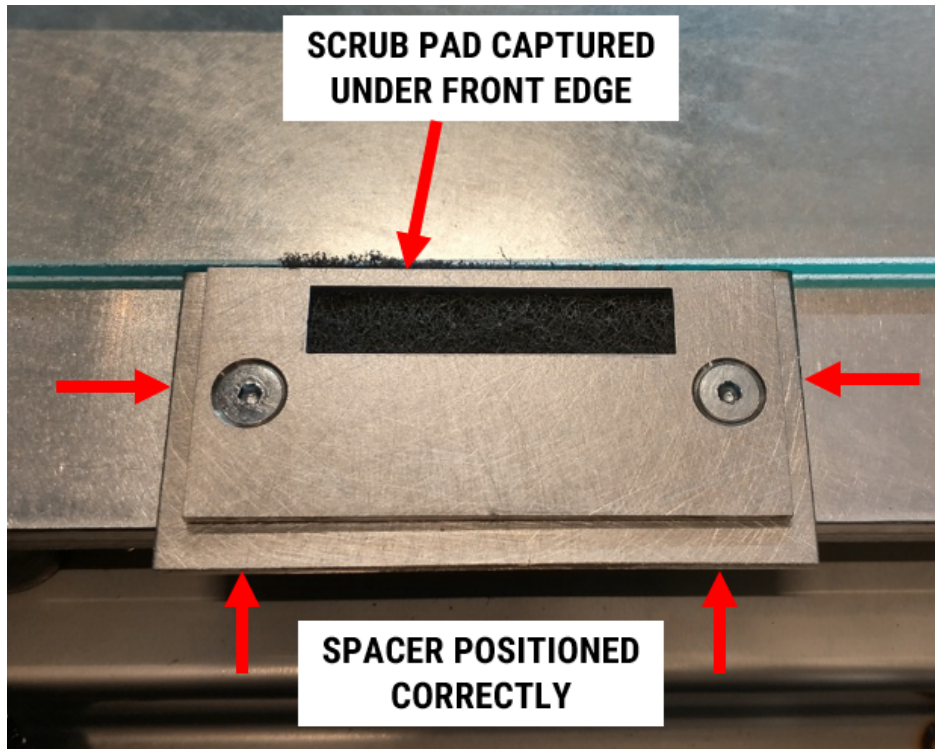


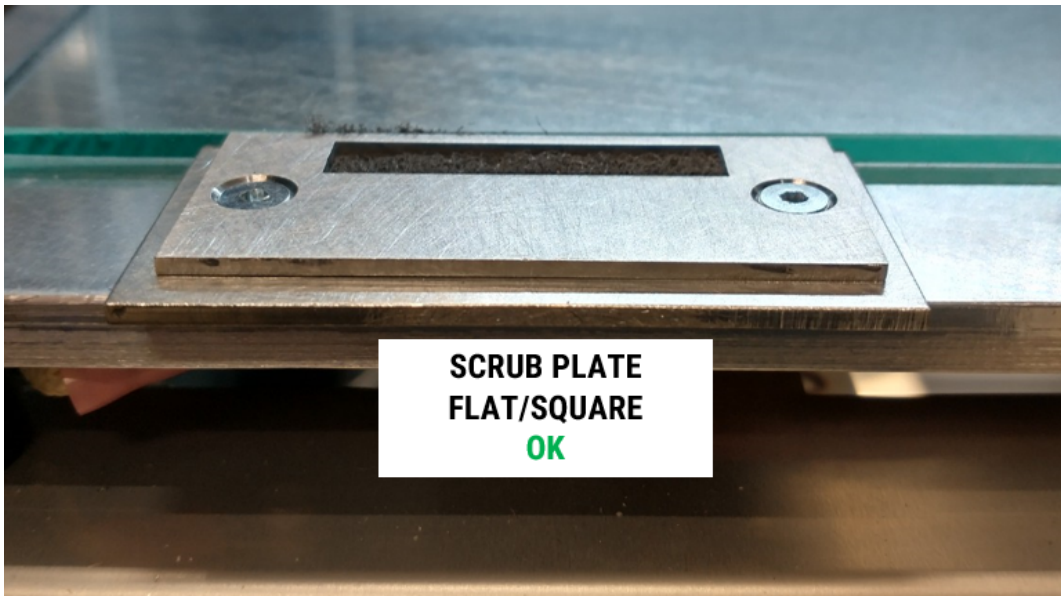
8. Stack the scrub plate on top of the spacer and pad, and thread the screws into the tool plate so that they've grabbed, but you can still slide things around.



9. Make sure:

- a. The front edge of the scrub pad is under the front edge of the scrub plate, so it's held in place.
- b. The spacer sticks out evenly on both sides and the back





10. Tighten the screws firmly.

IMPORTANT: Improper tightening of the screws can cause incorrect function of the nozzle offset & bed probe systems.

11. Remember to reset the maintenance timer when you're done.

