

DREMEL DIGILAB

3D45 Replacing Filament Run-out Sensor

⚠ WARNING Read the Dremel 3D45 manual and these instructions before unclogging the extruder in your Dremel 3D45. Failure to comply with the warnings and instructions may result in fire, equipment damage, property damage, or personal injury.

Always unplug Dremel 3D45 from its power before performing any service procedures. Failure to do so may result in personal injury and equipment damage.

Use only Dremel approved materials and components. Use of object materials, or 3D objects other than Dremel approved object materials and genuine Dremel components may void warranty.

Repairs on the Dremel 3D45 may require the use of special tools (pulling devices and bearing press). Authorized repair centers have trained repair technicians and equipment necessary to perform these repairs.

For the location of the repair center near you, please look on our web site at www.Dremel3D.com and follow the link for 'Support'.

PRE-SERVICE PREPARATION

If your printer isn't able to detect when the filament has run-out, you may need to replace the filament run-out sensor on your printer. To do this, the top cover of the extruder will need to be replaced. To do this follow these steps.

Tools Required:

- T10 Torx bit or screwdriver (no longer than 4 inches).

SERVICE INSTRUCTIONS

a. Cut the filament just before the intake on the top of the extruder.

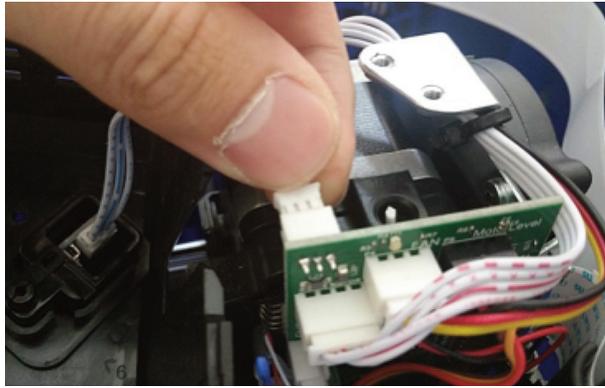
b. Remove screw located on the right side of the hole using the T10 Torx screwdriver. The first picture below shows the location of the screw, the second picture a bottom view of the area where the screw is located, circled in red is the screw that needs to be removed.



c. Unscrew the two screws on the top of the filament guide bracket using the 2.5mm bit or Hex wrench.

d. Remove the top cover.

e. Carefully unplug filament run out switch from the extruder circuit board, ensuring to pull from the plastic plug and not the wires; pulling the wires can damage the connection to the extruder. Please see picture below.



f. Re-attach the filament run out switch connector from previous step. Fasten the two screws on the top of the extruder top cover using the 2.5 mm hex wrench. Fasten right screw on the bottom of the extruder removed in step b using the T10 Torx screwdriver. Inset filament into extruder, and resume normal printer usage.

Congratulations!
You are now ready to build. **Build On.**