# Run-Out Detection and Changing Filament

What run-out detection is on Palette 3, how to enable it, and how to change a filament input if run-out occurs.

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## Select Filament to Change 1/2

| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |

Back

Next

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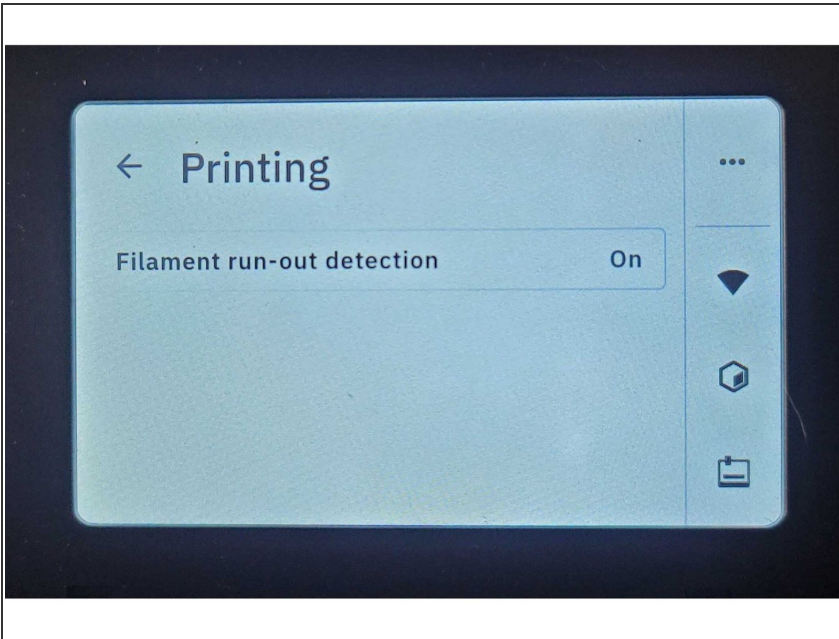
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Page 1 of 5

# INTRODUCTION

Run-out detection on Palette 3 will intercede in the event that filament reaches the end of a spool or falls out of its input.

This guide will teach you how to:

- Enable filament run-out detection on Palette 3
- Reload an input if run-out is detected
- Change filament during a print

Please also see this guide on re-assigning inputs and how to set back-up drives.
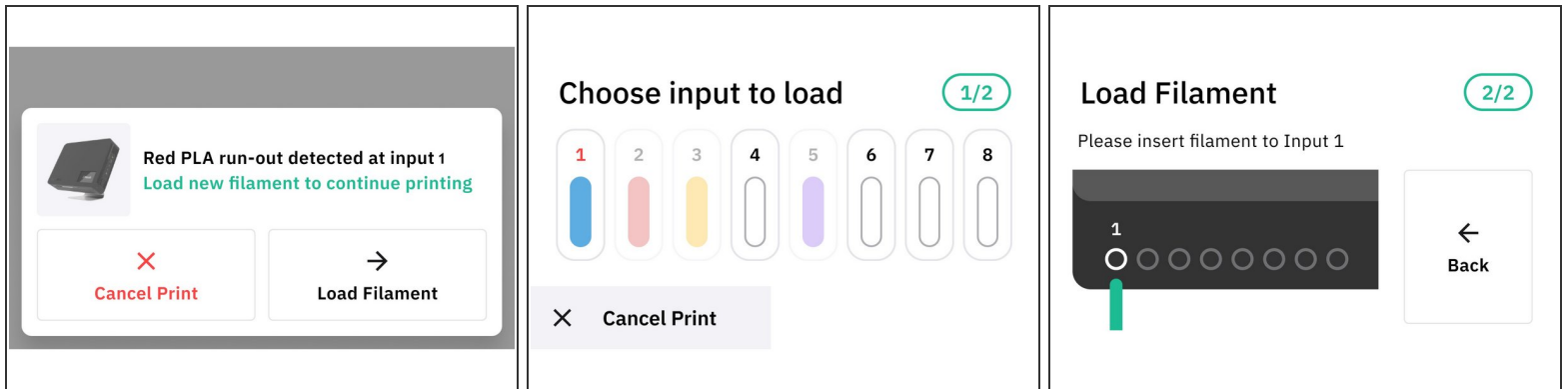
## Step 1 — Enable run-out detection



- Go to *Settings > Printing* to turn on filament run-out detection.
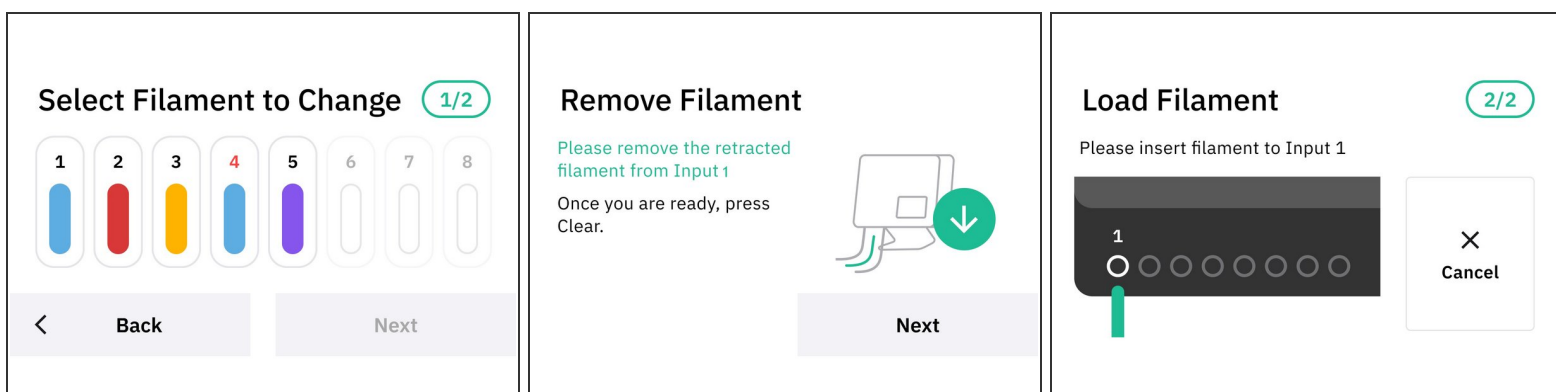
## Step 2 — Start a Print



- Start a print in either accessory or connected mode.
- (i) Filament detection will be enabled during printing, after the initial loading sequence is completed.

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## Step 3 — Filament Runs Out During Print



- If filament run-out is detected or the homing switch times out, Palette will pause.

  📌 In connected mode, both Palette and the printer will pause. The nozzle on the printer will also cool.

- Palette's screen will display which input detected run out. The options are to **cancel the print** or **load filament** into the input.

  - Load filament: The input that ran out, or any back up drives assigned to that input can be reloaded.

  - Selecting an empty input will also set it as a back up drive for the primary input that ran out.

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## Step 4 — Change Filament



- Changing filament can be done while a print is in progress, and will retract the selected input so that a new filament can be loaded. This can be done to change colors for the print, or preemptively load a new spool before filament runs out.

  📌 In connected mode, both Palette and the printer will pause. **In accessory mode, the printer has to be paused manually.**

- While a print is in progress, go to *Tools > Change Filament*

- Select the inputs you would like to change, and press *Next.*

  ⓘ Multiple inputs can be selected and changed, but they can't be reassigned to a new input, or have new back-ups selected.

- Palette will retract the selected inputs, please remove the filament completely and press *Next.*

- Palette will then prompt which inputs will be reloaded. Insert the new filament and then press *Done.*

If you have any additional questions, please send us a message at support@mosaicmfg.com.

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