

Filling missing faces in Shapr3D

CAD-003 / REV A / 2026.09.01

Diagnose what “missing face” means before trying to fill it: a hidden body, open sketch, open surface and damaged import need different fixes.

STATUS	Recovered/Partial
CLASSIFICATION	CAD
MATERIAL	CAD / AUTOMATION
DISPOSITION	PUBLIC / RECOVERED/PARTIAL
CATEGORY	CAD / Scanning / Automation
RECORD TYPE	how-to

GOAL

Run the first test described in this guide and record the result for filling missing faces in shapr3d.

SOURCE STATE

New reference guidance; not a recovered test result

EQUIPMENT

- Shapr3D
- Representative test model
- Measurement or inspection method

METHOD / STEPS

1. Check visibility and section-view settings first; show all relevant bodies.
2. For a sketch, find gaps, duplicates and self-intersections until the intended region becomes selectable.
3. For a solid with an unwanted opening, try a simple profile and additive extrusion that joins the body, or repair the source feature/import if appropriate.
4. Inspect the result from both sides and confirm the intended solid exists before export.

THINGS TO WATCH FOR

An imported STL is mesh data, not ordinary editable solid faces. A patch that looks closed may create an internal face or multiple bodies. Do not silently cap a real design opening.

FIRST TEST / WHAT TO RECORD

The region extrudes or subtracts predictably and an exported test reopens without an unintended hole.

RESULT / WHERE THIS STANDS

The region extrudes or subtracts predictably and an exported test reopens without an unintended hole.

TROUBLESHOOTING

- An imported STL is mesh data, not ordinary editable solid faces. A patch that looks closed may create an internal face or multiple bodies. Do not silently cap a real design opening.

SPECIFICATION

TOOL PATH	Shapr3D
DELIVERABLE	HOW-TO
VALIDATION	Representative model / known dimension
STATUS	Recovered/Partial

DEVELOPMENT HISTORY

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Imported as an independent manifest record; public copy keeps uncertainty visible.

REFERENCE NOTES

Shapr3D import/formats
(<https://support.shapr3d.com/hc/en-us/articles/7874523890076-Supported-file-types>).

HOW-TO SOURCES

Shapr3D import/formats
<https://support.shapr3d.com/hc/en-us/articles/7874523890076-Supported-file-types>

RELEASED MATERIAL / SOURCE LINKS

cad-003-public-summary.txt

PUBLIC SUMMARY / RECOVERED NOTES

<https://u225x.com/downloads/manifest-records/cad-003-public-summary.txt>

RETURN TO THE LIVING RECORD

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This PDF preserves the public notes at this revision. Visit the record for updates and attached images.

<https://u225x.com/record/CAD-003>