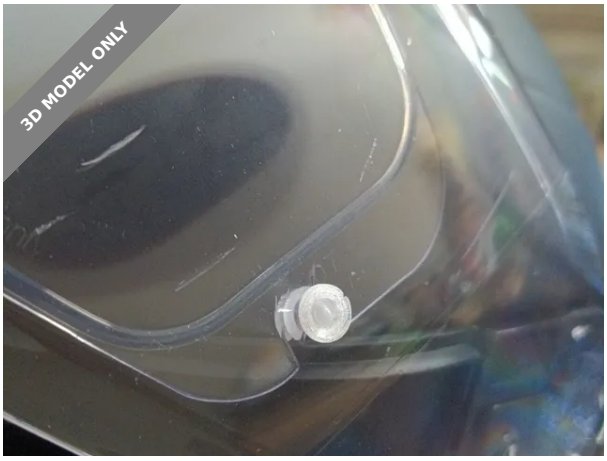


Universal Pinlock Mount / Pin (5mm Hole, Optimized Fit & Reinforced Clip) – Remix

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VIEW IN BROWSER

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Summary

Universal 5mm pinlock pin remix with 0.1mm clearance for easy snap fit & reinforced clip. Verified on Roxar RX-One.

Hobby & Makers > Automotive

Tags: pin helmet replacement petg moto motorcycle visor pinlock roxar

This is a remix of Pinlock by user optimized for functional fitment, easy installation, and mechanical reliability.

Compatibility:

- **Universal 5 mm fitment:** Designed as a universal replacement pin compatible with most helmet visors featuring standard **5 mm mounting holes** (tested and verified on the **Roxar RX-One**).

What changed?

1. **Clearances & Fitment (0.1 mm offset per side):** The original model lacked clearance for FDM expansion, making installation nearly impossible without filing or trimming. With a dialed-in 0.1 mm clearance on mating surfaces, the installation is straightforward and reliable. Snapping the pin into place requires firm, deliberate pressure, but it provides a rock-solid, secure lock without any play.
2. **Reinforced Retaining Lip:** Beefed up the internal retaining tab/flange holding the Pinlock insert flush to prevent delamination and accidental popping out under visor and shell flex.
3. **Cleaned up file:** Removed test artifacts present in the original upload.

Tested Print Settings:

- **Filament:** Transparent / Clear PETG (good UV resistance, toughness, and temperature stability).
- **Layer Height:** 0.16 mm.
- **Walls / Perimeters:** 999 (solid perimeters only – avoid standard infill to maximize structural integrity and optical clarity).
- **Nozzle Temp:** On the higher end of your PETG's recommended range (e.g. 240–250°C) to improve layer fusion and maximize transparency.
- **Part Cooling Fan:** Low speed (20–40%) to ensure strong layer bonding and reduce internal clouding/haziness.
- **Bed Adhesion: Brim is mandatory** due to the very small footprint of the pin.

  Rider's Tip: Print a small batch (3–4 pairs) at once. Keep a couple of spares in your bike's toolkit, tank bag, or underseat compartment—losing a pinlock pin in the rain or cold weather is an instant ride ruiner, and these weigh nothing.

This remix is based on



pinlock

by Brian Zhang

Model files



pinlock2_edit_ml.stl



pinlock1.stl

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