



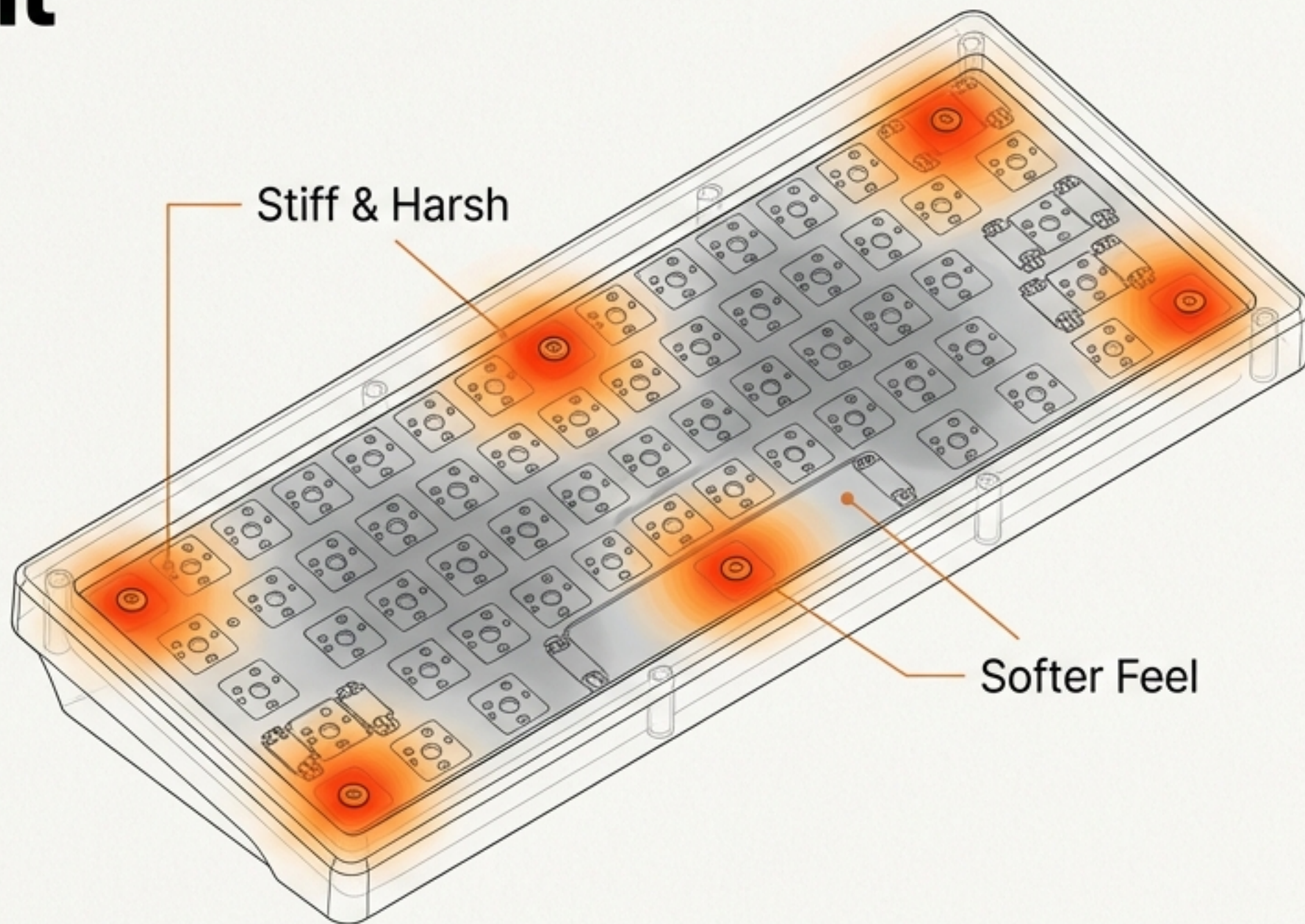
Does Your Keyboard Feel Like a Concrete Slab?

How a simple, inexpensive mod can transform the sound and feel of your tray mount board.

A Comprehensive Guide to the O-ring 'Burger Mount'.

The Harsh Reality of the Standard Tray Mount

- **The Problem:** In most entry-level kits, the Printed Circuit Board (PCB) screws directly into the case. There is no buffer.
- **The Result:** A rigid, unforgiving structure that leads to a jarring bottom-out feel and inconsistent sound.
- **The Flaw:** This direct contact creates 'hotspots'—keys near screws feel stiff and harsh, while keys at the edges feel softer. This inconsistency is the enemy of a premium typing experience.



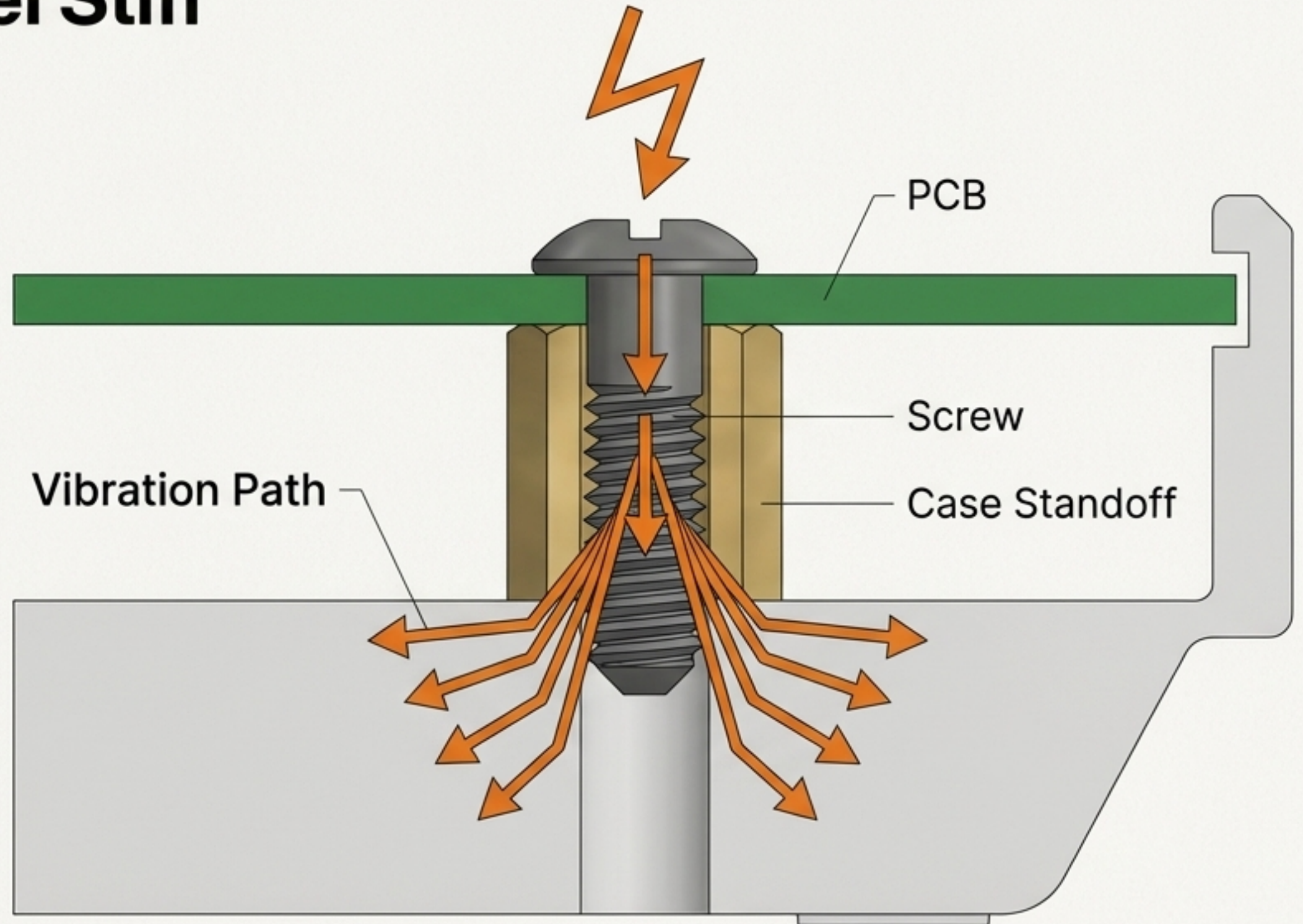
The Physics of the Ping: Why Tray Mounts Feel Stiff

Direct Vibration Transfer

Metal screw heads clamp down hard on the FR4 PCB material. Every keystroke's vibration travels directly through the screws and into the case, causing high-pitched, metallic "ping."

Lack of Isolation

There's nothing to dampen the impact or allow for flex. The entire assembly acts as one solid, rigid unit.



An Elegant Solution: Introducing the 'Burger Mount'

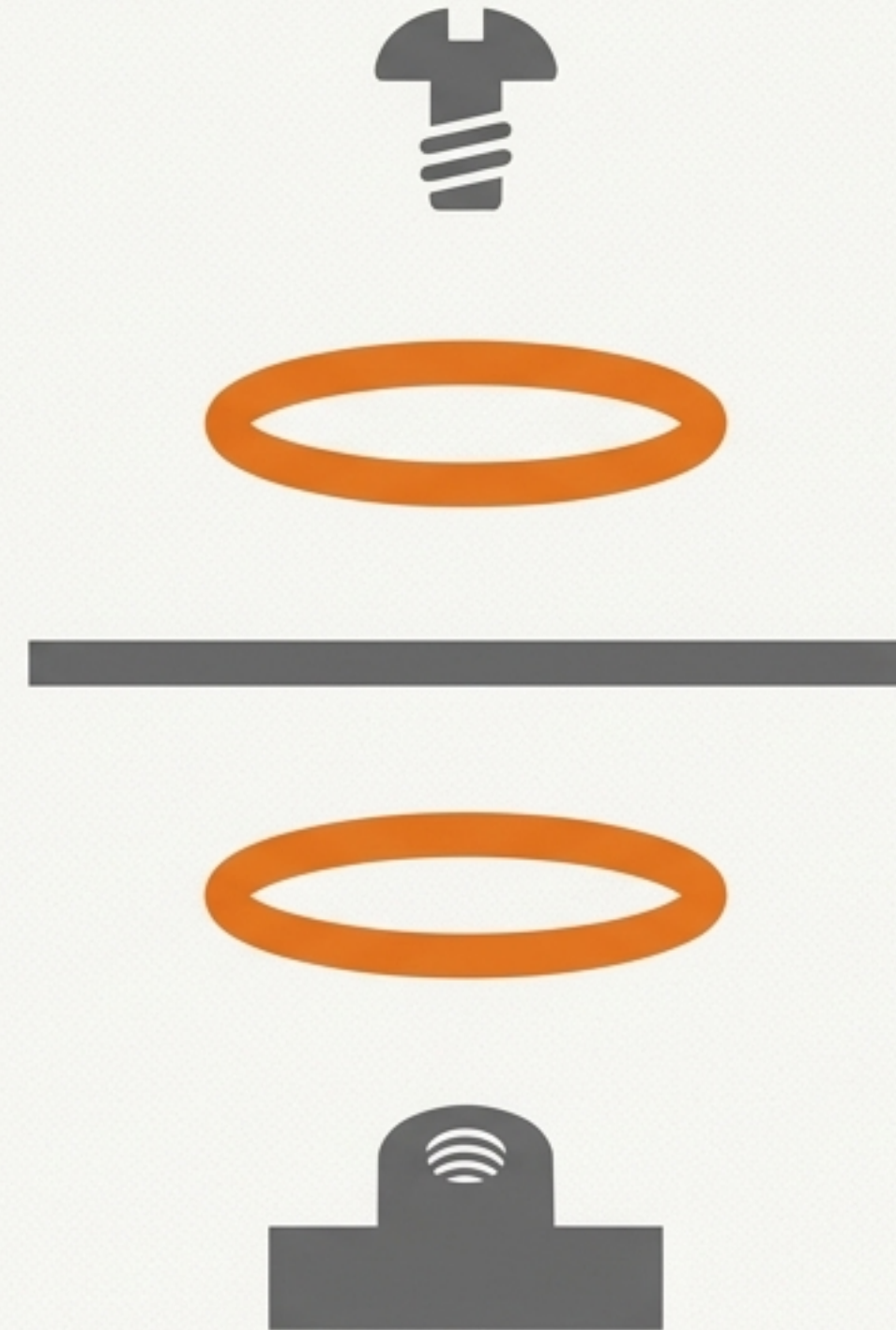


Concept

A simple, cost-effective modification that isolates the PCB from the case, creating a suspension system to dampen vibrations and even out the typing feel.

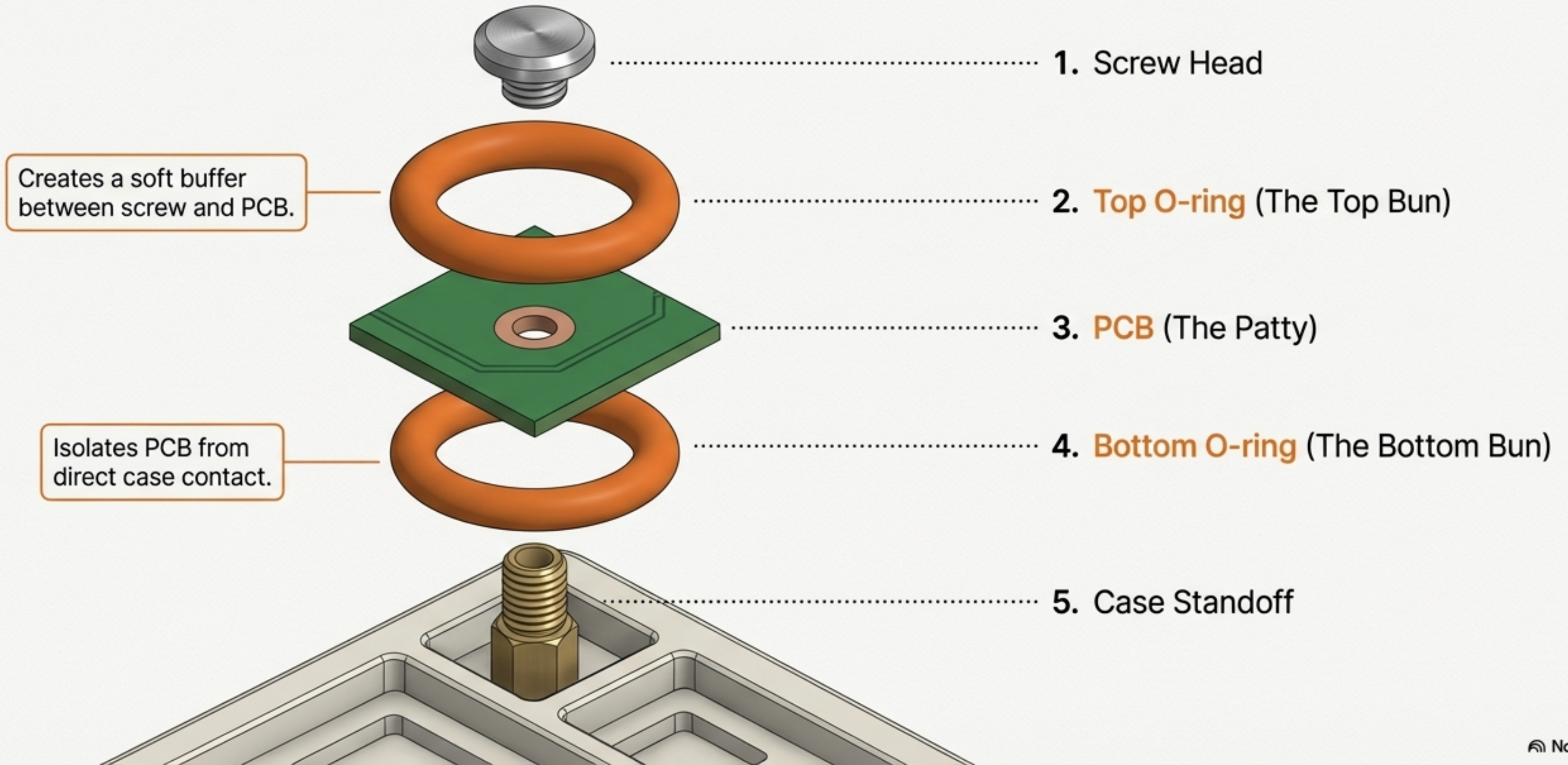
The Metaphor

We affectionately call it the "Burger Mount" because you sandwich your PCB (the "patty") between two soft O-rings (the "buns").



Anatomy of the Burger Mount

This mod creates a critical buffer zone. It breaks the direct metal-on-FR4 contact, allowing the PCB to flex slightly and isolating vibrations.



Your Modding Toolkit

Precision Screwdriver

Phillips #0 or #1 is typical.

O-rings

The critical component.

- **Size:** M2x4mm or M2x3mm (M2 for screw diameter, 3-4mm for thickness).
- **Material:** Silicone, approximately 50A hardness.

Tweezers

Optional but highly recommended for placing the tiny rings.

Your Keyboard

Any standard tray mount case (e.g., a GH60).



Step 1: Disassemble Your Keyboard

Instructions

- First, remove all keycaps and switches (if your board is hot-swappable).
- Carefully unscrew the PCB assembly from the case.
- Place all screws in a magnetic parts tray to avoid losing them.



Step 2: Place the Bottom 'Buns'

Instructions

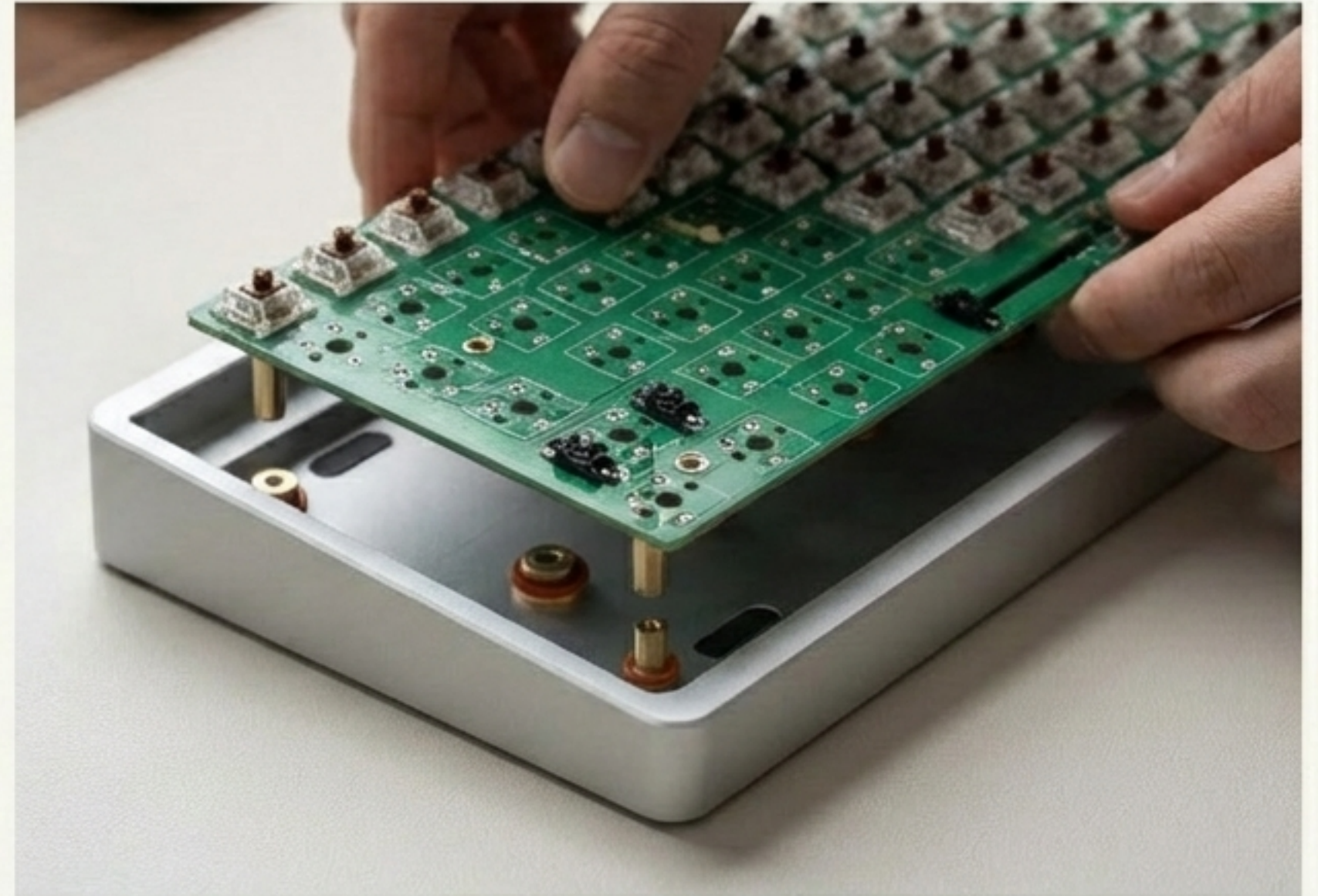
- Using tweezers or your fingers, place one O-ring on top of each brass standoff inside the keyboard case.
- Ensure each O-ring sits flat and centered on the standoff. Gravity will hold them in place.



Step 3: Align the PCB

Instructions

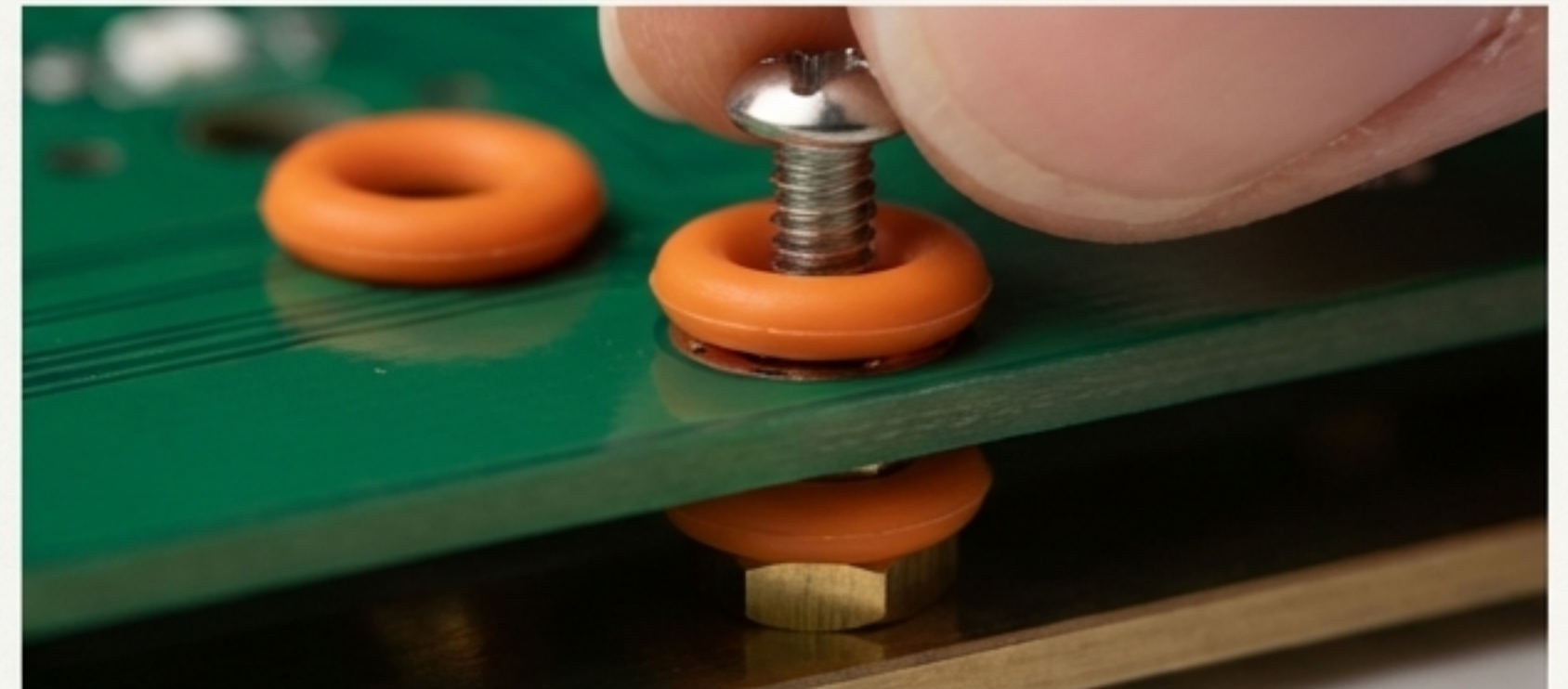
- Gently lower your PCB and plate assembly back into the case.
- Be careful not to dislodge the O-rings you just placed on the standoffs.
- Align the screw holes on the PCB directly over the standoffs below.



Step 4: Add the Top 'Buns' and Screws

Instructions

- This is the most delicate step. First, place a screw through a second O-ring.
- While holding the O-ring against the screw head, carefully insert the screw-and-ring combo into the corresponding hole on the PCB.
- The PCB is now fully sandwiched between two silicone O-rings.

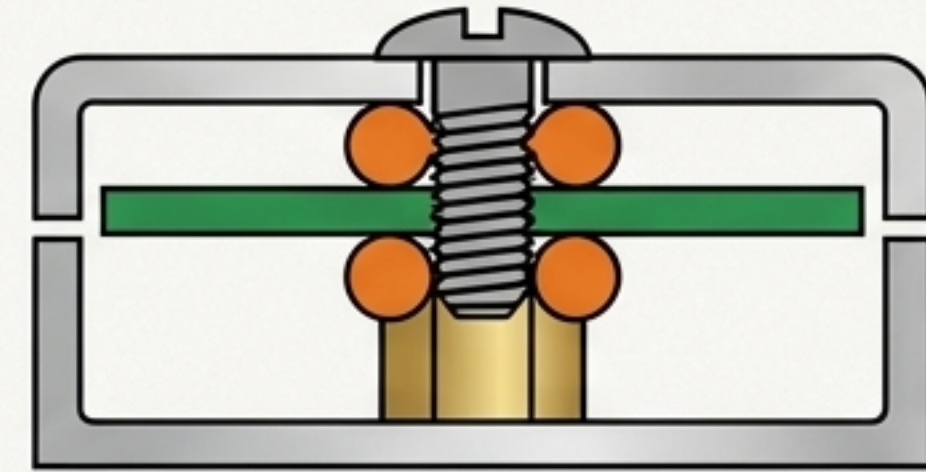


Step 5: Tighten with Care

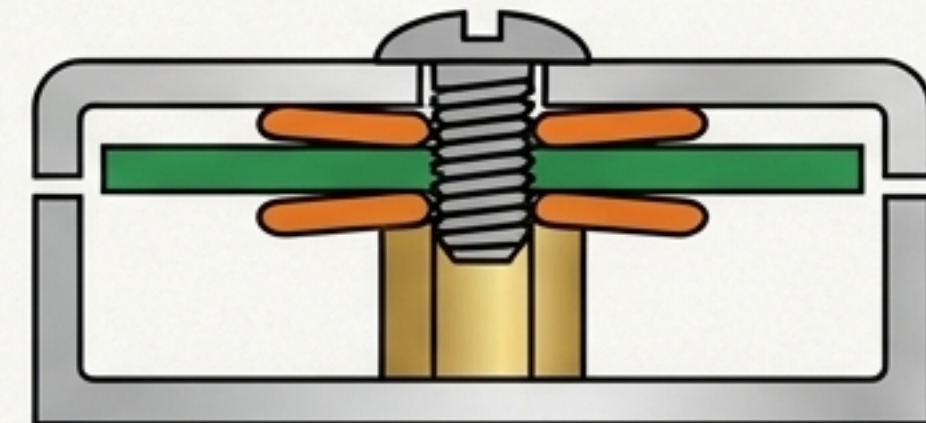
Instructions

- **CRITICAL: Do not over-tighten!**
- Tighten each screw slowly until you feel resistance and see the O-ring just begin to compress.
- If you completely crush the O-ring, you negate the benefits of the mod.
- The goal is a secure assembly that is still capable of slight movement and flex.

Correct



Incorrect



The Transformation: Sound and Feel, Before & After

The difference is immediate. The harsh ‘clack’ is replaced by a softer, more rounded sound profile.

Feature	Standard Tray Mount	O-ring Burger Mount
Typing Feel	Rigid, Hard Bottom-out	Softer, Cushioned
Sound Consistency	High variance (Hotspots)	More consistent
Vibration	High transfer to case	Isolated/Dampened

Voices from the Community



ClackToTheFuture

I was about to sell my old 60% board because it hurt my fingers to type on. Spent \$5 on O-rings and did the burger mount. It literally feels like a new keyboard. The thock is real.

— User: ClackToTheFuture



SwitchDoctor99

Used M2x4mm rings on my NPKC kit. It raised the PCB slightly, so make sure your USB port still aligns. Once I got it seated, the sound consistency consistency improved massively.

— User: SwitchDoctor99

Case Study: Advanced Application on the NPKC R075 PRO

While this mod works wonders on generic cases, applying it to a higher-quality kit yields even better results. The NPKC R075 PRO's robust construction makes it an excellent platform.

For enthusiasts who prefer direct feedback over a full gasket mount, this mod provides the perfect middle ground—retaining tactility while eliminating the harsh fatigue from long typing sessions.



Your Questions, Answered

| Will this work on any keyboard?

Best on Tray Mounts. Not needed for Gasket Mounts, which are already isolated.

| What size O-rings should I buy?

M2x3mm or M2x4mm. 4mm offers more flex but check your USB port alignment.

| Is this mod risky?

It's safe if done correctly. Do not over-tighten screws, and always ensure the USB port remains aligned with the case cutout.

| How does this compare to Gasket Mounting?

It creates a feel similar to a stiff gasket mount. It's a huge upgrade for tray mounts, though a purpose-built gasket board may offer more uniform flex.

Ingenuity in an O-ring

Improving your keyboard doesn't always require a massive investment. The O-ring Burger Mount is a testament to the ingenuity of the keyboard community. By adding **simple silicone buffers**, you can **remove friction**, dampen ping, and unlock a truly premium typing experience.

Ready to start your modding journey? Ensure you have a solid foundation.

Explore the **NPKC R075 PRO**, the perfect canvas for this and other advanced modifications.

NPKClub

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