FREE DIY BUILD GUIDE

Corsair iCUE 4000 magnetic side panel

Make the replacement panel yourself at home, or use the free cutting files with a local fabricator.

BUILD IT YOURSELF - FREE	Nothing is sold or shipped. Choose and download one of the two free DXF cutting files: STANDARD 428 mm or TALL 429 mm. Cut the panel at home or send the selected file to a local fabricator, then follow this guide. Finished-panel photographs can be viewed separately.
COMPATIBILITY	Designed only for the original Corsair iCUE 4000 series. Not compatible with FRAME 4000.
REALISTIC DIY RESULT	This is a homemade replacement, not a factory-perfect part. Small glue lines, sanding marks or slight alignment differences are normal. With patience and careful finishing, it can still look clean, attractive and completely suitable for everyday use.

1. Choose the panel size

FILE	SIZE	WHEN TO CHOOSE IT
STANDARD - SAFE FIT	413 × 428 × 4 mm	Recommended first choice. This is the safer size and should fit without edge finishing.
TALL - TRIM TO FIT	413 × 429 × 4 mm	Optional and riskier. Some older cases may shift or deform by about 1 mm. It may fit better, but can require careful sanding or trimming.

TALL FILE WARNING	Measure first or test a cardboard template. The 429 mm file is intentionally 1 mm taller. If needed, remove material gradually from the lower edge; do not alter the top edge or hole positions.

2. Choose PMMA or polycarbonate

MATERIAL	WHY CHOOSE IT	TRADE-OFF
PMMA / acrylic / Plexiglass	Best glossy edge, easy to find in dark smoke, ideal for laser cutting, stiffer and more scratch-resistant than standard uncoated PC.	More brittle; incorrect cutting, drilling or a forced magnet can crack it.
Polycarbonate / PC	Much tougher and more impact-resistant. More forgiving for home drilling and less likely to crack.	More flexible, scratches more easily, dark smoke is less common and laser quality depends on the fabricator.

3. Buy the magnets

OPTION	BUY	ASSEMBLY
Single magnet	8 × neodymium Ø6 × 4 mm	Use one magnet in each hole. This is the simplest choice.
Stacked pair	16 × neodymium Ø6 × 2 mm	Stack two per hole. Let the clean faces touch directly; do not put epoxy between them. If they repel, flip one. Apply epoxy only around the outside of the 4 mm stack.

4. Fabricator or home workshop

USE A FREE DXF	Download one of the two free DXF files and send it to the fabricator in millimetres. Request 4 mm dark smoke sheet, R2 corners, 8 through-holes Ø6 mm, deburred edges and protective film on both faces.
MAKE IT AT HOME	Both materials can be made at home. Keep the film on, mark on it, support the sheet fully, use a fine plastic-cutting blade or router, drill with a plastic bit or step drill at low pressure, then deburr and sand progressively. Never force a magnet into a hole.

ASSEMBLY

Bond, cure and install

Each hole receives one 4 mm magnet unit: either one Ø6 × 4 mm magnet or two Ø6 × 2 mm magnets stacked together.



ESSENTIAL PRINCIPLE The panel must not slide. When vertical, it rests on the case's two original lower supports. The magnets only prevent sideways detachment.

1	Dry-fit the panel and the eight complete 4 mm magnet units. Every unit must enter by hand; never force it into the sheet.
2	Keep the protective film in place. Expose only the bonding area around each hole on the inner face.
3	With the outer/visible face upward, seal every hole with low-tack automotive masking tape. Leave no wrinkles.
4	Turn the panel over. Mix a small amount of black two-part epoxy according to its instructions.
5	Place one small drop in a hole. Insert the single magnet or pre-stacked pair until it rests on the tape. Epoxy should form only a thin ring around it.
6	During the first few seconds, centre the magnet unit and set it flush. Immediately remove excess epoxy from the chassis-facing side.
7	Exactly 10 minutes after application, gently remove the tape from the outer face. Keep the panel flat and still.
8	Wait for the epoxy's full stated curing time before handling or installing the panel.

Installation and removal

Install: seat the lower edge on both original supports, keep the panel vertical and gently rotate the upper edge toward the chassis until the magnets engage. Do not drag or snap it against the case.
Remove: hold both sides, tilt the upper edge toward you, then lift the panel off the lower supports. Do not pull from one corner.

Final check

- Panel is flat and free of cracks or chips.
- Edges are smooth and safe to handle.
- All eight magnet units are centred and secure.
- Chassis-facing magnet surfaces are clean and flush.
- No epoxy haze or smears on the smoked sheet.
- Panel rests on both lower supports and does not slide.

Optional cosmetic touch-up

After the epoxy has fully cured, you can try a fine black pen with very fluid ink to darken tiny pale spots or visible cosmetic defects in the glue. Test it first on scrap or a hidden area and apply it only to the cured epoxy, not directly to the PMMA. A pen is only a visual touch-up: never use it to hide a loose magnet, crack or structural gap.

SAFETY Wear suitable protection and follow the epoxy manufacturer's instructions. Do not use acetone or paint thinner on PMMA. Keep magnets away from children, animals and sensitive devices. This is a free, unofficial guide; verify your own case before fabrication.