





VENUE | E6L Engine Rack Supports

The VENUE | E6L engine, with a rack height of 5U and depth of 19 and 3/4 inches (19.75 cm), can be installed in a standard 19-inch (482.6 cm) wide enclosure such as a flight case. When installing E6L in an enclosure, install the included rack supports for stability. The E6L rack supports are adjustable, allowing you to fit E6L into enclosures with rackable depths of up to 24 inches (61 cm). Your enclosure must be equipped with rear rack rails.

This guide shows how to install the rack supports, mount the E6L into an enclosure, and attach the E6L bezel.


 *It is recommended that you install the E6L towards the bottom of your enclosure, and that an air gap exists between the top of the E6L and the next device in the enclosure (or the top panel of the enclosure).*

 *Avoid overheating. Be sure to maintain proper air ventilation when by installing E6L in an enclosure. Air flows through the E6L front-to-back.*

 *Two people are required to complete this procedure.*

Required Materials

- E6L Rack Support kit, which includes:
 - (2) Inner Rack Supports, attach to E6L
 - (2) Adjustable Outer Rack Supports, attach to enclosure rack rails
 - (16) M4 5mm Inner Rack Support mounting screws, for attaching Inner Rack Supports to E6L
 - (8) Outer Rack Support mounting screws, for attaching Outer Rack Supports to enclosure rack rails
 - (5) Adhesive E6L adhesive spacer pads, attach to the back of E6L rack ear screw holes
 - (4) Rack screws, for attaching front of E6L to enclosure rack rails

 *The Rack Support Kit, included with the E6L separately, includes four extra rack screws you can use as spares.*

- E6L bezel
- Phillips #1 screwdriver (not included)
- Flight case or other type of enclosure equipped with rear rack rails (not included)
- Pencil or marker (not included)

Attaching Inner Rack Supports to the Engine

The included rack supports are in two assemblies. Each assembly consists of an Inner and an Outer Rack Support. The Inner Rack Supports are attached to the E6L chassis.

To attach the Inner Rack Supports to E6L:

- 1 Unpack all materials and place E6L bottom side down on a flat surface.
- 2 Locate the E6L Rack Support kit included in the E6L package.
- 3 On each assembly, slide the Inner Rack Support out of the Outer Rack Support to separate the pieces.
 - The Outer Rack Support has an adjustable extender, to fit the depth of your enclosure.
 - The Inner Rack Support has eight screw holes in the sheet metal, and are offset towards the front of the support.



Figure 1. Outer Rack Support (top) and Inner Rack Support (bottom)

- 4 Position an Inner Rack Support along the left side of E6L, lining up the screw holes on the support with the screw holes on the E6L's chassis. Attach the support to the E6L using eight of the Inner Rack Support mounting screws.

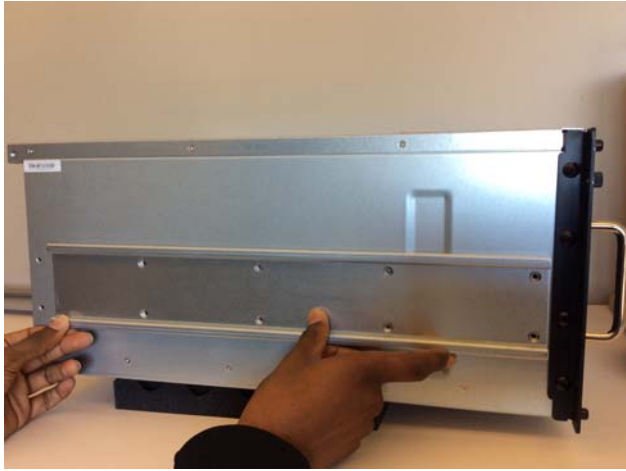


Figure 2. Attaching an Inner Rack Support to the E6L engine

- 5 Repeat the previous step to attach the second Inner Rack Support to the right side of the E6L.

Attaching Outer Rack Supports to the Enclosure

The Outer Rack Supports are attached to the enclosure's rack rails. Before attaching the Outer Rack Supports, you must first determine where in the enclosure you want to place the E6L.

On the rack rails of a standard flight case or audio rack, there are three screw holes per rack space (1U), each of which are 0.625 inches apart. Each 1U rack space is separated from the next 1U rack space by a narrower 0.5 inch gap. The E6L is 5U, and the Outer Rack Support is 2U.

To determine the position of the E6L and the Outer Rack Supports:

- 1 Determine where you want the bottom of the E6L to be in the enclosure, making sure to start from the bottom of a rack space (the first of the three screw holes of a rack space).
- 2 From the front of the enclosure, mark the left rack rail screw holes using a pencil or marker as follows, and using Figure 3 for reference:
 - Mark the third screw hole from the bottom of where you want the E6L to be located. The bottom E6L rack ear screw hole aligns with this rack rail screw hole.
 - Mark the lowest screw hole of the second rack space, and the highest screw hole of the third rack space. These screw holes align with the two screw holes on the front lip of the Outer Rack Rail.
 - Mark the lowest screw hole of the fifth rack space. The top E6L rack ear screw hole aligns with this rack rail screw hole.

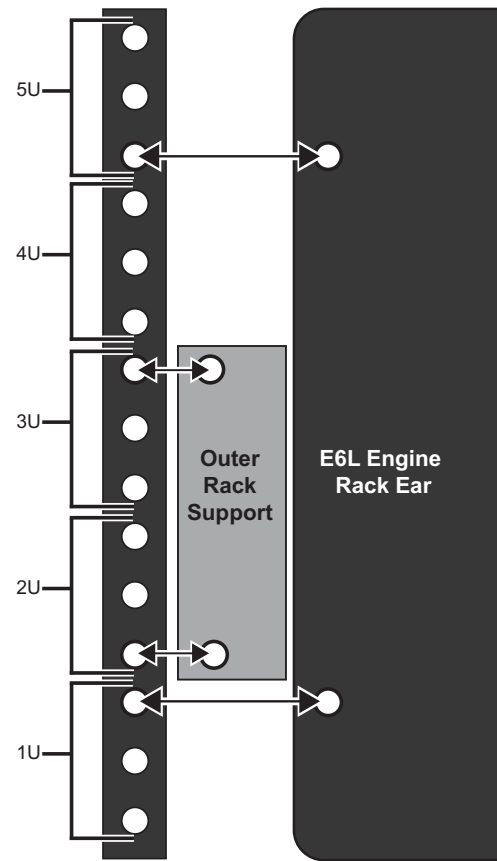


Figure 3. Aligning screw holes (front-left shown)

- 3 Repeat step two to mark the corresponding screw holes on the front-right, rear-left, and rear-right rack rails.

Installing the Outer Rack Supports:

- 1 Place an Outer Rack Support into position along the enclosure's front-left rack rail, making sure the lip of the Outer Rack Support is in front of the rack rail, and aligning its screw holes with the appropriately marked screw holes on the enclosure's rack rails. Attach the Outer Rack Support to the front-left rack rail using the included Outer Rack Support mounting screws.



Figure 4. Outer Rack Support attached to the front-left rack rail

- 2 Slide the Outer Rack Supports' adjustable extender towards the back of the enclosure.
- 3 Attach the Outer Rack Support to the rear rack rail using the included Outer Rack Support mounting screws, making sure the lip of the Outer Rack Support is in front of the rack rail, and aligning its screw holes with the appropriately marked screw holes on the enclosure's rack rails.



Figure 5. Outer Rack Support attached to the rear-left rack rail

- 4 Repeat the previous steps to attach the second Outer Rack Support to the enclosure's right rack rails.

Mounting E6L in the Enclosure

After attaching the rack supports to the E6L and to the enclosure, you can mount the E6L in the enclosure.

To mount the E6L in the enclosure:

- 1 On the back side of each E6L rack ear screw hole, affix one adhesive spacer pad per screw hole.
- 2 Team lift the E6L, and from the front of the enclosure line up the Inner Rack Supports with the Outer Rack Supports (Figure 6), and slide E6L into the enclosure (Figure 7).



Figure 6. Aligning Inner and Outer Rack Supports



Figure 7. Sliding E6L into an enclosure

- 3 With the E6L's front rack ears flush with the enclosure's front rack rails, secure E6L to the enclosure using the included rack screws (four per side).

Mounting the E6L Bezel

After mounting the E6L in the enclosure, you can mount the E6L bezel.

To attach the E6L bezel:

- 1 Locate the E6L bezel in the E6L package.
- 2 Put the bezel into position and connect the 1/8-inch connector to the jack on the front panel of the E6L.

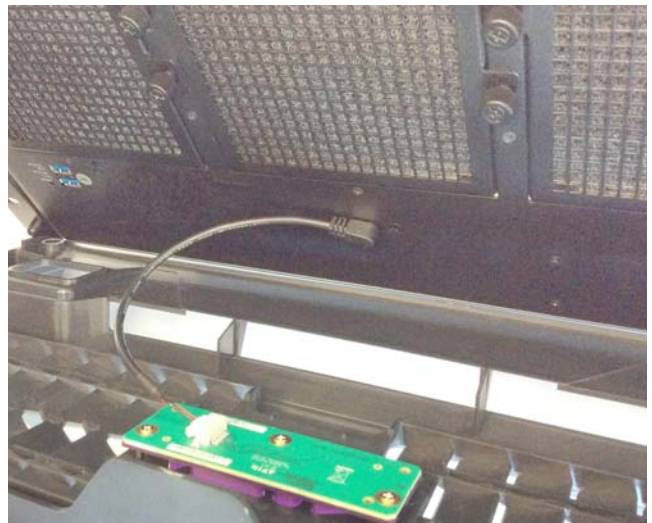


Figure 8. Connecting the 1/8-inch connector

- 3 Press the bezel into place, and tighten the four captive screws to secure it to the E6L chassis.

