Stowable Level Bed Platform for 2021 Model S

Front

Front middle

Rear middle

Rear

Feathered Friends makes a zippered groundsheet that holds two pads and zips to a down sleeping bag. Not the Ritz, but better than Coldfoot Camp!

L: The platform fully extended with the front seats moved all the way forward. Note that the front sections are wider, and that the front middle section tapers abruptly at its rear edge to match the rear seat bolsters. The front middle section is $41\frac{11}{16}$" (1059 mm) at its widest and narrows to 39 ¼" (998 mm) where it joins the rear middle section on three pins. The joint is supported by the slanted transverse support. R top: The front plywood section unfolds to rest on the center console giving extra headroom while sleeping. The hinged joint is supported by the folded seatbacks. R bottom: the platform folded and stored with the rear seats up. The front sections fold and slide into the space where the cargo cover would normally sit. The rear section folds allowing easy access to the deeper trunk compartment.

Materials and Dimensions

¾" (191mm) Birch Plywood:

Front: $41\frac{11}{16}$" wide x 28 ¾" long (1059 mm x 475 mm)

Front middle: 19 ¼" to 21 $\frac{5}{8}$" wide x $41\frac{11}{16}$" to 39 ¼" long (490 mm to 555 mm x 1059 mm to 998 mm)

The dimension changes reflect the short taper at the rear edge to match the rear sear bolsters
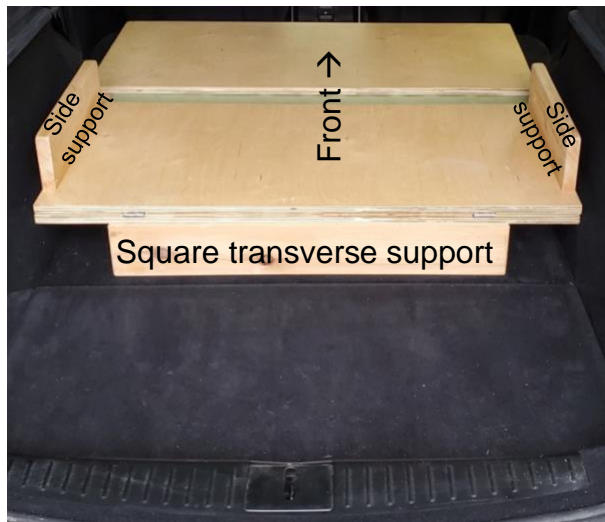
Rear middle: 39 ¼" wide x 18 ¾" long (998 mm x 475 mm)

Rear: 39 ¼" wide x 18 $\frac{3}{8}$" long (998 mm x 467 mm)

¼" birch plywood stabilizer slat:
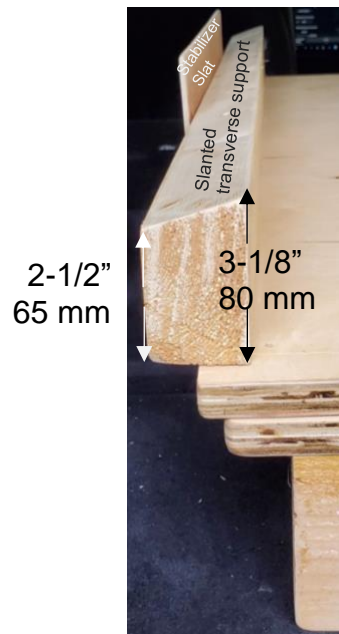
4 ¼" high (110 mm) To avoid notching to accommodate the seatbelt between the two seat sections (pictured) make 2 slats: one for each seat section ~15" long and 10" long (381 mm & 254 mm) (note the accommodating notch along the lower edge near the space between the two folding seat sections).

Pins for holes in front middle plywood section

slanted   transverse   support

Stabilizer Slat

notch

Looking toward the back at the folded rear plywood section and with the stabilizer slat removed from the slot between the seat backs and trunk floor. In the slot, the thin plywood stabilizer prevents the platform from sliding backwards toward the liftback. It is secured to the slanted transverse support with two rows of five screws. The pins, which are fitted into the slanted transverse support, match holes drilled into the front middle plywood section. Take care to accommodate the seatbelt between the folding seat sections (notch; or secure two separate slats).

Both sections folded to show three of the four supports. Deep trunk compartment access is preserved. With the front section folded, the front seats can be adjusted over their full range.

The rear two sections folded and flipped to show the dimensions of the slanted transverse support and the overhang so that it supports both middle sections. Three pins are installed into the slanted transverse support to match three holes drilled into the bottom of the rear middle plywood section.

Supports:

Transverse supports – be sure to mount with an overhang to support adjoining plywood sections:

Slanted (spruce): 3 $\frac{1}{8}$" high to 2 ½" high x 2" thick by ~37 $\frac{5}{8}$" long (80 mm x 65mm x 956 mm)

Square (cedar): 4 ¼" high x ~29" long, ~1 ½" thick (110 mm x ~740 mm x ~380 mm)

Rear side supports (cedar):

4 ¼" high x ~15" long x 1" thick (110 mm x ~380 mm x 25.4 mm)

Additional Materials:

- Three pins (3/8" diameter aluminum tubing is pictured) for joining front and rear sections. Make sure that the transverse support is attached so that it supports both edges of the adjoining plywood sections!
- 4 stainless steel hinges + 24 x ¾" SS flat-head screws. Inset hinges. File off any protruding screw tips.
- 10+ x 1 $\frac{5}{8}$" SS flat-head screws for securing the stabilizer slat(s).
- ~14 x 3" SS flat-head screws to mount the side and transverse supports to the rear plywood sections.
- Pre-drill and countersink all holes. Sand smooth and round-off corners and edges.