

PTBi bracket fitting advice

Formerly the TBF1

Here are some helpful pointers which will contribute to a safe and secure fitting of the PTBi brackets onto the following models of Tillett car seats for road and race track use.

B6-40, B6-44 (when supplied with side mount option)
B6-44 Screamer, B6-40 Screamer,
B6-43 XL Screamer, B6-47 XL Screamer XL
B7-40, B7-44, B7 XL
B8-43, B8-44.5
B9-43, B9-44.5



The PTBi is a 6 mm thick anodised high grade aluminium bracket for Tillett seats. This model is designed to point inwards from the seat.

To reduce the width at the base to the minimum, the B6/B7/B8/B9 seats have a slight 2 degrees negative camber on the sides and the PTBi has the angle to match this. The slots in the base of the bracket are used to take up this change as you move the bracket to the various angle choices on the sides. Therefore, because the brackets are not 90 degrees, if you point the brackets outwards the horizontal element will meet the floor of the car at an angle. We recommend using the TBFIA, PTBO or the more economical powder coated STBO if you need the brackets turned outwards from the seat. The lowest holes in the bracket will rarely be used unless the seat is sitting in a dropped floor depression, or sitting on adjustment runners with a requirement to skim the floor. (Seat runners are not recommended in a race car)

The lower holes may be used if the seat is to be set at either a very reclined position, or set more upright than standard. If the seat is set more reclined than standard, extra spacers will be needed to avoid the bracket impacting the leg area.



Because most load will go through the rear fixings, the brackets should be set so that the slots are at the front of the seat.

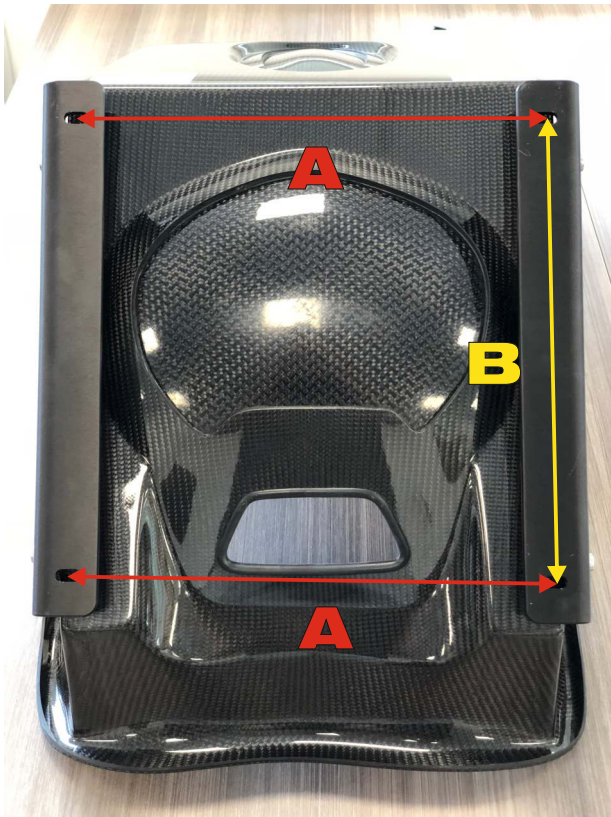
The two sets of upper holes or slots are the most commonly used. Due to the laminate thickness differences, you will find that to make the base of the seat dome skim the floor, you will use different a hole arrangements between the various models. The B6/B7 XL models have more pronounced leg bulges. Therefore, with the XL more spacing is needed to avoid the bracket impacting the leg area.

We suggest testing the brackets on the seat before fitting in the car. It is important to understand the correct spacers setup required to stop the front portion of the bracket hitting the leg support of the seat. When the lower holes are used, the bracket must be spaced away from the seat. Use rigid spacers like aluminium or Nylon. Make sure there is at least 10 mm of M8 bolt passing into the seat thread.

As an option you can use the Tillett pegged aluminium spacer kit TK8 to fill the slot above for extra strength in rearward impacts. The kit has 2 x 40 mm diameter x 4 mm thick pegged ally spacers, 2 x 40 mm diameter x 4 mm thick plain ally spacers for the rear mounts and 4 x 40 mm diameter x 2 mm thick nylon spacers. These spacers help to fit the seats on the lower hole settings.



Optional TK8 pegged spacer kit



B6 standard (side mounted version), B6 Screamer, B7

Set on the upper holes without spacers, the **A** dimension is 30.1 to 31.7 cm using the slots to give adjustment.

Set to skim the floor on the third hole down and with 10 mm of spacers between the seat and brackets the **A** dimension is 32.2 to 33.8 cm.

The **B** dimension is always 31.5 cm.



B6 XL (side mounted version), B6 Screamer XL, B7 XL, B8 and B9

Set on the upper holes without spacers, the **A** dimension is 32.9 to 34.5 cm using the slots to give adjustment.

Set to skim the floor on the second hole down and with 10 mm of spacers between the seat and brackets the **A** dimension is 34.9 to 36.5 cm.

The **B** dimension is always 31.5 cm.

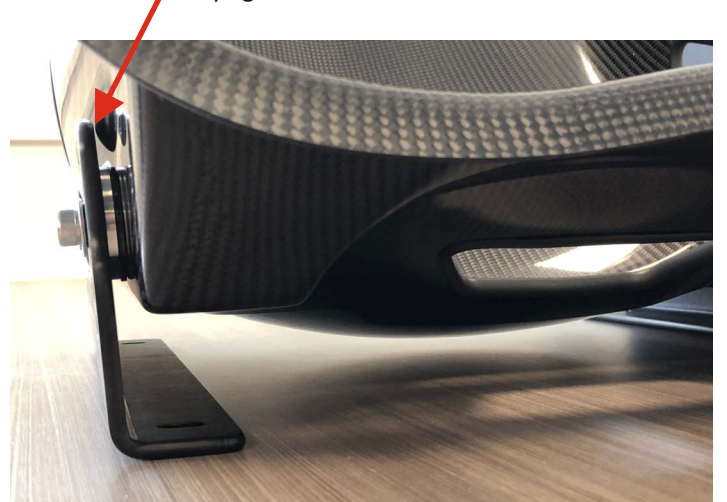
With all models but particularly with the XL versions; as the lower holes are used, more spacers are needed to avoid the leg bulge. 12mm for the mid hole, 14mm on the second from bottom hole and 16mm on the very lowest hole. When you need to be low but are sitting the seat brackets onto runners, the lowest setting requires hex head M8 bolts to fit from runner to bracket. The bracket ideally needs fitting to the runner before fitting to the seat, as the gap between the bracket and the seat base in this circumstance is very tight.



Showing the two degree camber and set on the upper holes without spacers

It is recommended to use as few spacers as possible to reduce twisting forces on the bolts.

Please ensure that the bolting points in the floor of the car are suitably strong and strengthen them substantially if not.



High quality M8 bolts should be used for all mounting points and we recommend a torque setting of 35Nm when fitting the bracket to the side mounting points.