

PTBO bracket fitting advice

Formerly the TBF5

Here are some helpful pointers which will contribute to a safe and secure fitting of the PTBO brackets onto the following models of Tillett car racing seats.

B6-40, B6-44 (when supplied with side mount option)
B6 Screamer, B6 40 Screamer, B6 Screamer XL, B6 XL 43 Screamer, B7-40-17, B7-44-17, B7 XL, B8-43, B8-44.5, B9-43, B9-44.5



The PTBO is a 6 mm thick anodised high grade aluminium bracket for Tillett seats. This model is designed to point outwards 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 PTBO 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 hole choices on the sides. Therefore, because the brackets are not 90 degrees, if you point the brackets inwards the horizontal element will meet the floor of the car at an angle. We recommend using the PTBi or STBi if you need the brackets turned inwards under the seat.

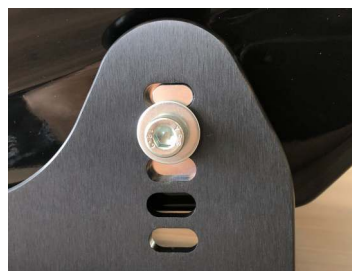
The lower holes in the bracket will rarely be used unless the seat is sitting in a dropped floor depression, or sitting on adjustment runners with a requirement to skim the floor. (Seat runners are not recommended in a race car)

The lowest 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 upright than standard, extra spacers will be needed to avoid the bracket impacting the leg area.

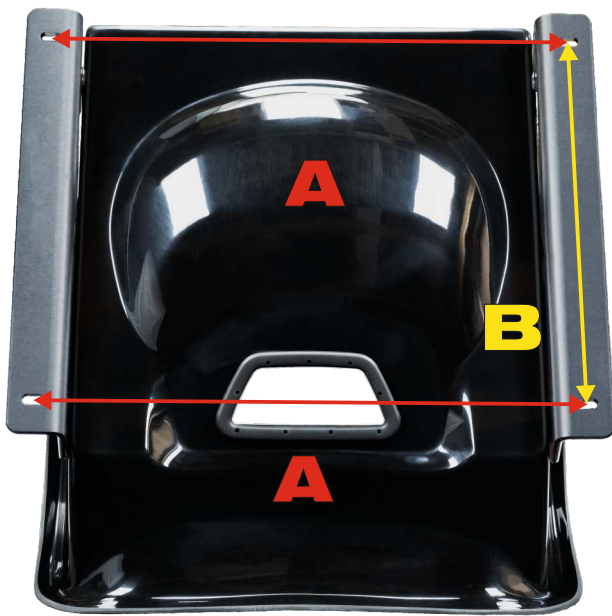


Because most load will go through the rear fixings, the brackets should be set so that the slots are at the front of the seat.

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 the hole 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 help fitting of the seats on the lower hole settings.



Optional TK8 pegged spacer kit



B6 (side mounted version), B6 Screamer, B7

Set on the upper holes without spacers, the **A** dimension is 39.0 to 40.6 cm using the slots to give adjustment.

Set to skim the floor on the third hole down and with 6 mm of spacers between the seat and brackets the **A** dimension is 40.4 to 42.0 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 41.7 to 43.3 cm using the slots to give adjustment.

Set to skim the floor on the second hole down and with 6 mm of spacers between the seat and brackets the **A** dimension is 43.0 to 44.6 cm.

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



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.

With all models but particularly with the XL versions, As the lower holes are used, more spacers are needed to avoid the leg bulge.



High quality 12.9 strength 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.