

STBO/VTBO bracket fitting advice

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

B6-40, B6-44 side mount version
B6-44 Screamer, B6-40 Screamer FIA seats
B6-43 XL Screamer, B6-47 XL Screamer XL FIA seats
B7-40, B7-44, B7 XL FIA seats
C1-41, C1-44, C1-43 XL, C1-47 XL FIA seats
B8-43, B8-44.5, B9-43, B9-44.5
B10, B10 XL



STBO and VTBO brackets are the same shape made from either aluminium or steel. The "Standard Tillett Bracket Outward" STBO is a 5 mm thick powder coated aluminium, the VTBO (Value Tillett Bracket Outwards), is made from 3 mm steel. These both point away from the seat. The difference is cost and weight the STBO is 1.2 kg and the VTBO is 1.85 kg. To reduce the width at the base to the minimum and create rigidity, the seats all have a 2° positive camber on the sides and these brackets have the angle to match this. The slots in the base of the brackets are used to take up this change as you move the bracket to the various hole choices on the vertical section. Because the brackets are not 90°, if you point the brackets inwards, the horizontal element will meet a flat floor at an angle.



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.

If you need the brackets turned inwards, we recommend using the STBi or VTBi bracket types. Due to differences amongst the seat models, you will find that to make the base of the seat dome skim the floor, you will need to use different hole arrangements to achieve the lowest position. The lowest two rows of holes in the bracket are seldom used unless the seat is either sitting in a dropped floor depression or is sitting on adjustment runners with a requirement to skim the floor.

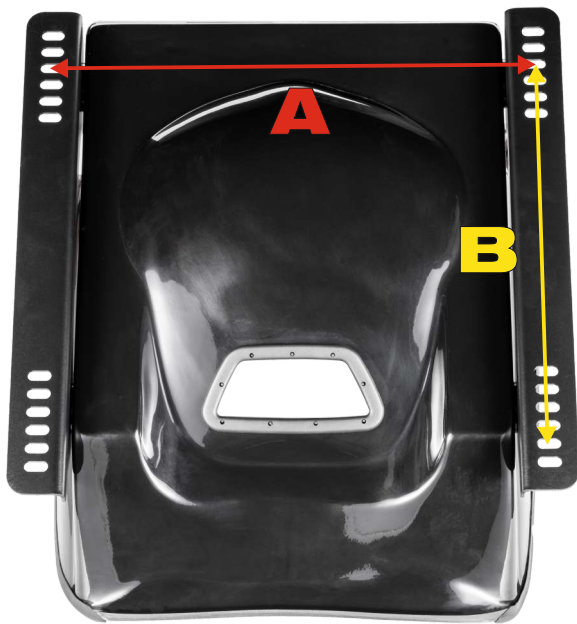
Optional TK8 pegged spacer kit

As an option the Tillett pegged aluminium spacer kit TK8 fills the slot above the one used, for extra strength in rearward impacts. The kit has 2 x 40 mm diameter x 4 mm thick pegged aluminium spacers, 2 x 40 mm diameter x 4 mm thick plain aluminium spacers, for the rear mounts and 4 x



40 mm diameter x 2 mm thick Nylon spacers. These spacers also help to fit the seats on the lower front hole settings by moving the bracket outwards avoiding the leg support.





B6 (side mounted version), B6 Screamer, B7, B10 and C1.

Set on the third holes up without spacers, the **A** dimension is 38.5 cm to 40.5 cm with slots in the brackets giving this width adjustment. The second hole up requires 2 mm spacer all around and the first hole from the bottom would require 1 cm of spacers all around.

The B10 is 5 mm narrower and requires two additional 4 mm spacers at the front mount points keep the bracket square as it has a narrow front.

B6 XL (side mounted version), B6 Screamer XL, B7 XL, B8, B9, B10 XL and C1 XL

Set on the fourth holes up without spacers, the **A** dimension is 41 to 43 cm, using the bracket slots gives some adjustment on this. You need to use 2 mm of spacers on the third hole up. On the lowest holes 1 cm is needed.

The B10 XL is 5mm narrower and to make the mounting parallel requires two extra 4 mm spacers at the front mount points as it has a narrow front.



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 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.

The lower holes and slots may also be used if the seat is to be set at either a very reclined position or set more upright than standard. It is also important to understand the correct spacer setup required to stop the front portion of the bracket hitting the protruding leg support area on some models. Should the setup require the use of the lower front holes, extra spacers may be needed to avoid the bracket impacting the leg bulge. The B6, B7, B10 and C1 have more pronounced leg bulges. Therefore, more spacing is required to avoid the bracket impacting the leg area.

The brackets have a series of base slot positions which enable a small amount of leg length adjustment and extra choices for different runners or mounting to a floor plate. The **B** can therefore be varied from the Tillett standard hole length of 31.5 cm. this make it easier to fit to other runners systems or aftermarket seat plates.



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