



Seat Bar Kit Setup Information

# Mounting The Seat Bar Kit and The Seat

The seat bar is usually the first procedure in the kart assembly. Using Picture A (shown below), set the right side seat bar mount  $1\text{-}3/8''$  from the inner motor mount rail. Be sure  $1/2''$  threaded mount stud is perpendicular or 90 degrees to chassis. Then tighten all four  $1/4''$  bolts. Make certain heim joints are threaded into the bar as far as possible. In other words, you want the seat bar assembled length to be as short as you can make it. Next, install right side of bar over  $1/2''$  threaded stud with one .060 washer on top of the heim joint. Then tighten the  $1/2''$  - 20 nylon nut. Then, put the heim joint, washer, and  $1/2''$  - 20 nylon nut over the left side stud. Tighten the heim joint jam nut. Next, set the mounting stud bracket on the left side nerf bar tube. Then tighten the four  $1/4''$  - 20 bolts. The last step of the process is to set the amount of vertical travel you want on the seat bar. This is done by loosening the two  $1/2''$ -20 nylon jam nuts on the left side. We like to have slightly more vertical travel on the left side versus the right side, approximately .030 to .035 on the left and .015 to .020 on the right. Picture B shows full assembly of the seat bar.



Picture A



Picture B

The next step is to mount the seat. Seat position is crucial for optimum performance of your chassis. Most importantly, seat position should be comfortable for the driver. Since everyone is built differently, it is very difficult to determine exactly the best seat position for you. But we can tell you how we like to mount our seats. Since body weight has the greatest effect on left side weight percentage, we first ask how heavy the driver is. This helps us to determine how far left or right the seat will be positioned. We use the center of the seat in reference to the brake rotor on the Vector as our guideline. This is not perfect for everyone, but it is a great starting point.

Driver Weight	Seat Position
50 to 100 lbs.	Center of seat in line with center of brake rotor
100 to 130 lbs.	Center of seat $1/2''$ to $1''$ to the right of brake rotor
130 to 180 lbs.	Center of seat $1''$ to $1\text{-}1/4''$ to the right of brake rotor
180 plus lbs.	Center of seat $1\text{-}1/4''$ to $1\text{-}1/2''$ to the right of brake rotor

Place the kart on a flat surface (i.e. table, floor) to keep the seat flush with the bottom of the frame rails. Seat height is a personal preference from a comfort stand point. We prefer the seat be mounted as low as possible without losing comfort. A lower center of gravity, in most cases, generates better performance and lower lap times. Make sure you loosen the four seat bolts  $1/4$  to  $1/2$  turn for flex. There is one final check to ensure that the seat is mounted properly. After the seat is completely mounted, remove the top left  $5/16''$  button head bolt and nut. Remove the rubber seat grommet from between the seat and seat strut. The bolt should now move freely through the seat and seat strut, and the distance between the seat and seat strut should remain the exact thickness of the rubber grommet. This ensures that the seat is not mounted in a bind.

We appreciate your business.

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We look forward to hearing from you!