A straight cross member must be placed between the top frame rails, in-line with the first set of uprights past the end of the foot box. This cross member must be bolted or clamped as follows:

- **Tubing Requirement:** Minimum ¾” x .049” round 4130 or Docol R8 or Ti9. Alternately, streamline .049” 4130 tubing with a minimum 1.640” major axis and a minimum 0.714” minor axis may be used. The tubing must be straight.

- **Mounting:** Minimum 5/16” rod end / spade, and 5/16” bolt per end. Rod end / spade must be in double shear between 2 tabs. If clamped, there must be two clamps per end.

- **Position:** The cross member must be in-line with the 1st set of uprights, and mounted to either the upper frame rails or the uprights (yellow line in figure 1). If mounted to the uprights the cross member’s center must be no lower than 2.50” from the centerline of the upper frame rail (Figure 2).

**Additionally:** If the chassis does not have an existing cross member in line with second set of uprights past the end of the foot box (red line in Figure 1), an additional straight cross member meeting the above requirements must be installed in that position.
Figure 2

2.50” Maximum

Top Rail

Upright