

CPSC “Hangman's” 4 point bicycle chin strap

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The bicycle helmet chin strap standard needs to be changed. The standards, CPSC and ASTM F1447 are responsible for 14 strangulation deaths and over 31 non fatal injuries to children under the age of 7.

Two or four point chin straps should not be used. A 4 point chin strap with a cup design improves helmet stability and roll off by 200%. This can also reduce the probability of strangulation. Figures 1 through 4 show the difference between the chin strap and chin cup point harness. Figure 5 shows the unmodified and modified straps. The 4 point chin cup design needs a second adjuster added to the side opposite the buckle to fit a wider variety of head forms.



Figure 1



Figure 2



Figure 3



Figure 4

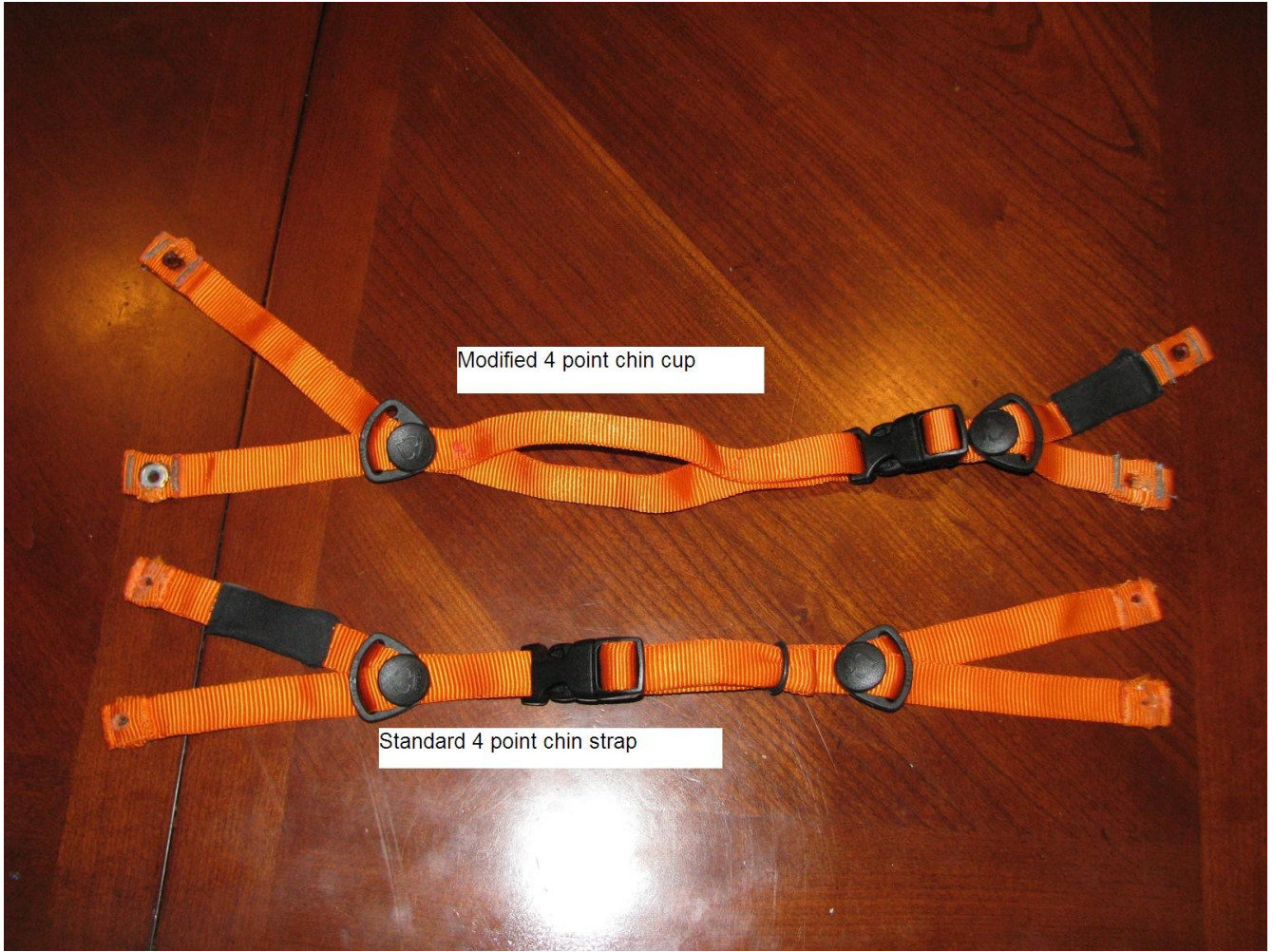


Figure 5