

### **Engineering Specification #8 – Seat Height Range**

The purpose of this test is to verify that seat height range is large enough to accommodate the 5<sup>th</sup> percentile female to the 95<sup>th</sup> percentile male stature. The ideal value is a range from less than 27 inches to greater than 34 inches, and the marginal value is a range from 27 to 34 inches.

**Start Date:** 5/14/08

**Finish Date:** 5/14/08

**Engineers set-up experiment:** Jonathan Bawas, Carl Mangelsdorf, James Nardo, Jeffrey Tempest, Jen Zelasko

#### **Equipment Needed:**

1. Measuring Tape

#### **Experiment Set-up:**

- 1.) Place the pedal to the lowest position.
- 2.) Place seat at lowest position.
- 3.) Measure the straight line distance from the top of the pedal to the top of the seat.
- 4.) Place seat at highest position.
- 5.) Measure the straight line distance from the top of the pedal to the top of the seat.

Shortest distance: 26 inches

Largest distance: 36 inches

#### **Conclusions:**

Seat height range is at the ideal value, ranging from 26 inches to 36 inches. The range accommodates the 5<sup>th</sup> percentile female to the 95<sup>th</sup> percentile male stature.