

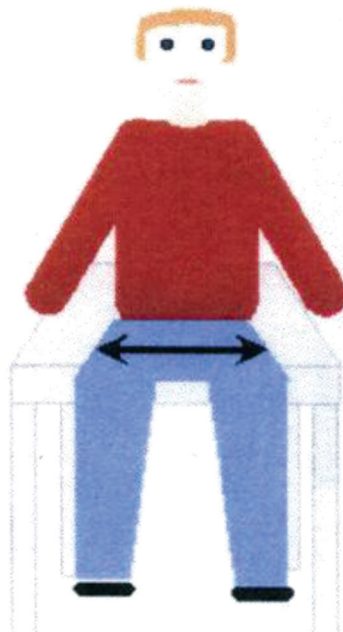
BUTLERBUILT® SEAT MEASUREMENT PROCEDURE

IMPORTANT NOTE: ““BUTLERBUILT CUSTOM BUILDS SEATS TO PROPERLY FIT THE DRIVER MEASUREMENTS AND PROPORTIONS. BUTLERBUILT USES ITS OVER 30 YEARS OF SEAT MANUFACTURING EXPERIENCE TO MATCH THE CORRECT SEAT STYLE TO THE INTENDED APPLICATION. ALTHOUGH MOST SEATS MOUNT WITHOUT ANY ISSUES, IT IS IMPORTANT TO NOTE THAT MODIFICATIONS “MAY” BE NECESSARY TO FRAME/CHASSIS, SHEET METAL, COCKPIT CONTROLS AND ACCESSORIES TO PROPERLY COMPLETE SEAT INSTALLATION. BUTLERBUILT IS NOT RESPONSIBLE FOR, NOR OBLIGATED TO PAY FOR SHIPPING OR ISSUE CREDIT ON RETURNS SHOULD THE BUYER DECIDE TO RETURN A SEAT.”

ORDER ACKNOWLEDGEMENT: CHECK BOX INITIAL/DATE _____

PLEASE TAKE YOUR TIME AND BE CAREFUL: *If the procedures are not followed, the seat will not fit the driver correctly.*

It is imperative that all dimensions are **ABSOLUTE STRAIGHT LINES**. A rigid tape measure, steel ruler, or yardstick should be used. If using a tape measure, be sure to keep in a straight line. DO NOT LET THE TAPE FOLLOW THE NATURAL CURVATURE OF THE BODY...THIS WILL SEND MEASUREMENTS TO THE MOON!!! The driver should be wearing relatively tight fitting clothes. Baggy clothing can lead to difficulty in obtaining the proper measurements required. Do not compensate for upholstery materials or driving suits. It is necessary to provide ButlerBuilt with the chasis design and the type of racing the driver is competing in, to determine sitting position under racing conditions. Restraint Systems are important. ButlerBuilt builds seats to be compatible with these systems. To build your seat properly, it is imperative to know weather you are using a “Y” style or individual mount shoulder harness, and what type of Head and Neck Restraint System is being used.



STEP 1

Have the driver sit on a large flat surface, such as a workbench, table or desk. We need this surface as a reference point. The driver's feet will hanging over the side.

PLEASE DO NOT SIT ON THE FLOOR OR A CHAIR!!!

Spread the knees 8" to 10" apart.

Place the tape measure on the outside of the left thigh.

Pull the tape in a **STRAIGHT LINE** across the groin area, to the right outer thigh.

Using two right angle devices laid against the body and measuring between them can accurately simplify this dimension.

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STEP 2

Have the driver sit upright with good posture.

Pull the right arm only, straight forward as if holding the steering wheel.

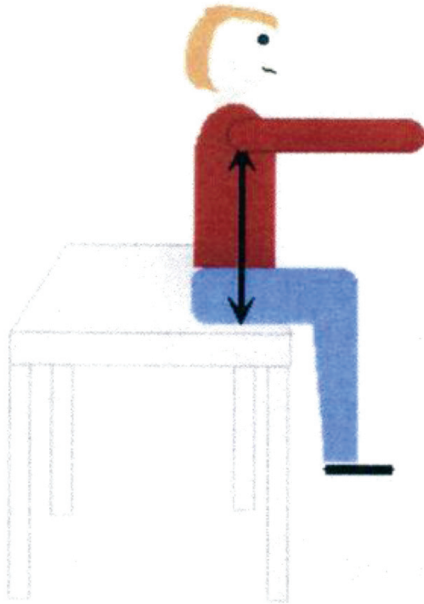
Take a step back and visually see that the shoulders are level.

THIS IS VERY IMPORTANT FOR ACCURACY!

The tendency is that the right shoulder will usually be picked up when the arm is raised, so the driver may need to relax his shoulder to match the left side.

Come around to the right side of the driver's body.

Measure vertically from the table top to the center of the armpit.



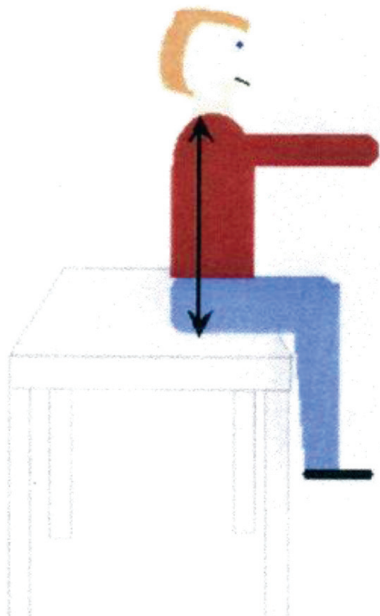
STEP 3

With the driver sitting in the exact same body position, measuring from the right side of the body, take a vertical dimension from the table top to the top of the shoulder.

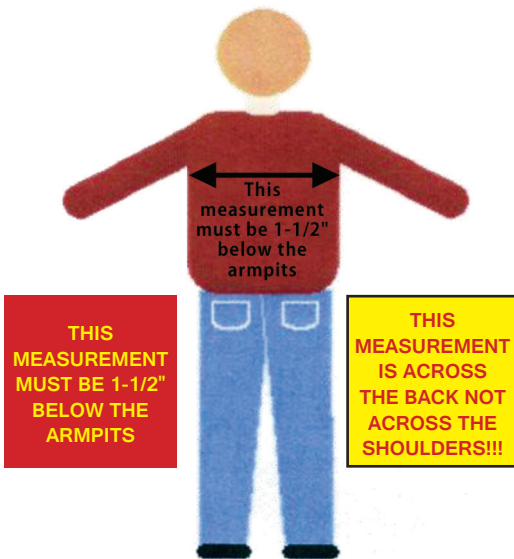
We are most concerned with the area where the shoulder harness will cross over the top of the shoulders, which is the muscular position at the base of the neck.

PLEASE REMEMBER...

STRAIGHT LINE MEASUREMENTS ARE CRITICAL!!!



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STEP 4

THIS IS THE MOST CRITICAL MEASUREMENT

PLEASE TAKE YOUR TIME!

THIS MEASUREMENT IS TAKEN ACROSS THE BACK NOT...FROM SHOULDER TO SHOULDER

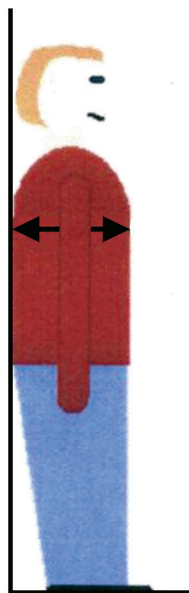
Have the driver stand with his back to you.

Arms should be held away from the body at approximately a 30° angle, with a clear line of sight under the arms.

Place the tape measure 1-1/2" below the armpit.

Starting at this point pull the tape straight across the back to the opposite point 1-1/2" below the armpit.

IT IS ABSOLUTELY IMPERATIVE THAT THIS DIMENSION BE A STRAIGHT HORIZONTAL LINE MEASUREMENT!



STEP 5

This is for the depth of the chest cavity.

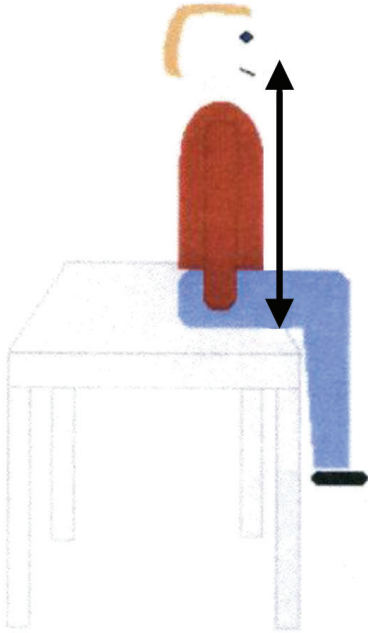
Back the driver up against a flat surface, such as a wall or a door.

Place the measuring tape under the arm.

Measure the distance from the wall to the front of the chest.

THIS IS A STRAIGHT HORIZONTAL LINE MEASUREMENT

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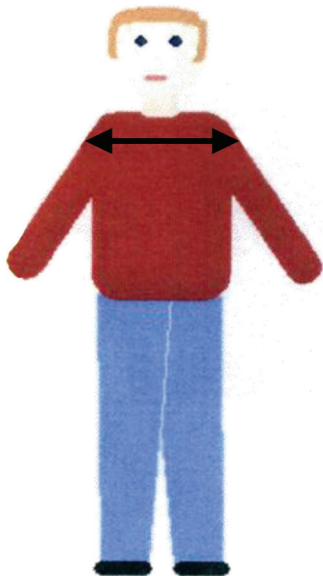


STEP 6

Have the driver sit in an upright position with good spinal posture and looking straight ahead.

Measure from tabletop to the tip of the nose.

THIS SHOULD BE A STRAIGHT VERTICAL LINE MEASUREMENT!



STEP 7

Have the driver face you holding the arms slightly away from the body.

Place the tape measure on the outside of the left arm 2-1/2" below the top of the shoulder.

Take a STRAIGHT LINE measurement from this point on the left arm to the outside of the right arm.

2-1/2" BELOW THE TOP OF THE SHOULDER