

Loaded Rib with Directly Attached Suspension Lines Showing Suspension Line Measurements and Trim Dimensions

The diagram illustrates the geometry of a loaded rib with directly attached suspension lines. An airfoil section is shown at the top, with four suspension lines labeled "A", "B", "C", and "D" extending from a common point at the bottom. The "A" line length is the distance from the common point to the leading edge of the airfoil. The "B", "C", and "D" lines are the distances from the common point to the trailing edge of the airfoil. The control lines are shown as dashed lines extending from the trailing edge of the airfoil to the common point. The trim dimensions are indicated by numbered circles 1, 2, 3, and 4, which represent the vertical distances between the suspension lines and the control lines. Measurement 1 is the distance from the "A" line to the first control line. Measurement 2 is the distance from the first control line to the second control line. Measurement 3 is the distance from the second control line to the third control line. Measurement 4 is the distance from the third control line to the fourth control line.

Measurements 1 2 3 are trim dimensions.

Measurement 4 is used to specify full flight and deployment brake setting relative to "A" line length.

Note: "A" line length + 1 = "B" line length
 "A" line length + 1+2 = "C" line length
 "A" line length + 1+2+3 = "D" line length
 "A" line length + 4 = control line length
 FF for full-flight setting
 "A" line length + 4 = control line length for
 DB deployment brake settings

Note: In this view, suspension lines are not cascaded.

Figure 3A.

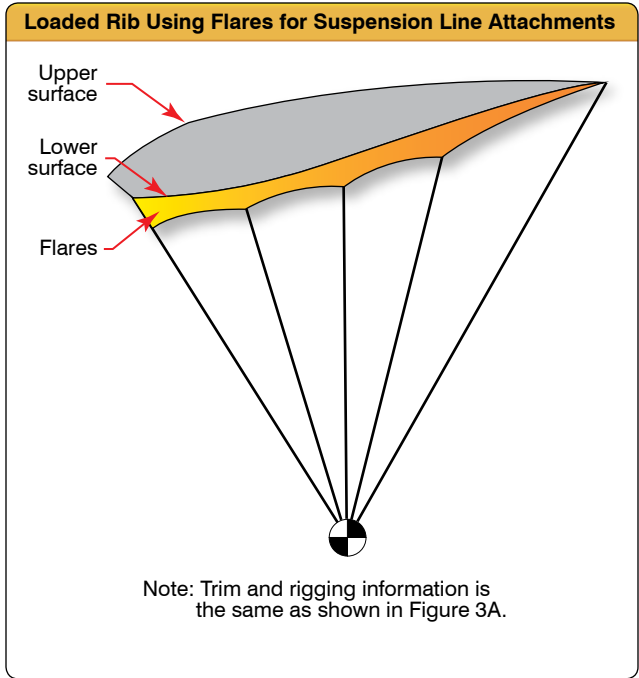


Figure 3B.