

## VERTICAL STABILIZER STATION DIAGRAM - COMPONENT LOCATION

*EFFECTIVITY: ACFT MODEL(S) EMB-145*

### 1. General

- A. This section gives the vertical stabilizer station diagram ([Figure 101](#)).
- B. The vertical stabilizer station diagram gives a reference system that shows the location of the structural components in relation to different datum planes.

**VERTICAL STABILIZER STATION DIAGRAM - COMPONENT LOCATION**

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2. Vertical Stabilizer Station Diagram.



2960.37

1705.69

1404.68

1270.24

1156.86

1043.48

933.16

822.74

712.43

679.20

602.01

401.34

200.67

2006.69

STABILIZER HINGE POINT  
X=28135.90  
Y=111.50 (-111.50)  
Z=3604.50

NACA 64A012 (MODIFIED)

ZV 3500.00

ZV 3419.50

ZV 3325.00

ZV 3015.00

ZV 3145.00

ZV 2799.00

ZV 2536.00

ZV 2277.00

ZV 1932.00

ZV 1677.00

ZV 1423.00

ZV 1169.00

ZV 915.00

ZV 1048.00

ZV 1094.00

ZV 1020.00

ZV 958.00

ZV 806.00

ZV 0.00

ZV 3755.00

ZV 3534.00

ZV 3290.00

ZV 3290.12

ZV 3472.00

ZV 2085.66

ZV 2287.00

ZV 1652.06

ZV 975.00

ZV 1922.00

ZV 1430.50

ZV 923.47

ZV 904.00

ZV 0.00

ZV 0.00

ZV 26544.39

ZV 27083.12

ZV 27621.84

RUDDER I  
- LEADING EDGE (BA) - MIN 26 mm  
MAX 30 mm  
- TRAILING EDGE (BF) - MIN 7 mm  
MAX 10 mm

RUDDER II  
- LEADING EDGE (BA) - MIN 7 mm  
MAX 12.5 mm  
- TRAILING EDGE (BF) - MIN 7 mm  
MAX 10.5 mm

GAP

STABILIZER ACTUATOR HINGE POINT  
X=27316.90  
Y=40.00 (-40.00)  
Z=3110.50

NACA 64A010 (MODIFIED)

RUDDER I - MIN 6.6 mm  
MAX 12.5 mm

RUDDER II - MIN 4.8 mm  
MAX 13.5 mm

GAP

FUSLG

359.15

718.30

1077.45

1274.96

1472.52

1867.58

2273.42

2514.05

3052.78

3591.50

X= 24030.34

X= 26544.39

X= 27083.12

X= 27621.84

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