



## 505 North Sails Tuning Matrix

Updated 12/6/07

| Wind<br>knots | Headstay  | mast rake<br>forward | rake aft | shroud<br>tension | Mast at Deck Level |        |          | West<br>coast ram | centerboard   | vertical pin |
|---------------|-----------|----------------------|----------|-------------------|--------------------|--------|----------|-------------------|---------------|--------------|
|               |           |                      |          |                   | fractional         | Metric | imperial |                   |               |              |
| 0-3           | 0 (datum) | 3' 4"                | 25' 8"   | 150               | - 7/8              | -22    | -0.875   | 0                 | max forward   |              |
| 6             | 0         | 3' 4"                | 25' 8"   | 150               | - 5/8              | -15    |          | 1                 | max forward   |              |
| 9             | 0         | 3' 4"                | 25' 8"   | 200               | - 3/8              | -10    |          | 3                 | perpendicular |              |
| 12            | 1         | 3' 5"                | 25' 6"   | 300               | - 2/8              | -6     | -0.25    | 4                 | perpendicular |              |
| 15            | 2         | 3' 6"                | 25' 3.5" | 350               | - 1/8              | -3     |          | 5                 | 1/2"          | no gybe      |
| 18            | 3         | 3' 7"                | 25' 2"   | 400               | 0                  | 0      |          | 7                 | 1"            | no gybe      |
| 21            | 4         | 3' 8"                | 25' 1"   | 500               | 1/8                | 3      |          | 7.5               | 2"            | up 2"        |
| 24            | 5         | 3' 9"                | 24' 11"  | 600               | 2/8                | 7      |          | 8                 | 5"            | up 2"        |
| 27            | 6         | 3' 10"               | 24' 8"   | 700               | 3/8                | 10     |          |                   | 7"            | up 3"        |
| 30            | 7         | 3' 11"               | 24' 6"   | max               | 4/8                | 13     | 0.5      |                   |               | max up       |

positive is more ram down, aft  
0 is mast straight at 25'8" datum