Vancouver Sun Run 2017
1993 - 2010
How to correctly attach the transponders to your shoe.
No result without a correctly attached transponder!

1. Remove transponders from tab.
   2. Thread transponders through
   the loop so that the red color
   shows on the upper side.
   3. Tie your shoe. The transponder now forms
   a loop on top of your shoe.
   4. Do not place transponders under laces.

If you have a different tying system or velcro on your shoes, try using a safety pin instead to form a bow
from the transponder strip and attach it to your shoe.
CHIP

Sensitivity became sufficient.
Transponder

Spacer

Tyvek BIB
race | result

Precision. Passion. German Engineering.
<table>
<thead>
<tr>
<th></th>
<th>1,5mm to Body</th>
<th>10mm to Body</th>
<th>Free Air</th>
<th>1,5mm to Body</th>
<th>10mm to Body</th>
<th>Free Air</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Frequency [MHz]</strong></td>
<td>866</td>
<td>866</td>
<td>866</td>
<td>915</td>
<td>915</td>
<td>915</td>
</tr>
<tr>
<td><strong>Chip Min Power [dBm]</strong></td>
<td>-3</td>
<td>-11</td>
<td>-19</td>
<td>-6</td>
<td>-14</td>
<td>-19</td>
</tr>
<tr>
<td><strong>Chip BS Power [dBm]</strong></td>
<td>-46</td>
<td>-37</td>
<td>-28</td>
<td>-41</td>
<td>-35</td>
<td>-27</td>
</tr>
<tr>
<td><strong>Distance [m]</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>At Ankle/foot</td>
<td>0,5</td>
<td>22</td>
<td>-71</td>
<td>14</td>
<td>-62</td>
<td>6</td>
</tr>
<tr>
<td>Typical Bib Height</td>
<td>1,5</td>
<td>32</td>
<td>-81</td>
<td>24</td>
<td>-72</td>
<td>16</td>
</tr>
<tr>
<td>Side Antenna</td>
<td>6</td>
<td>44</td>
<td>-93</td>
<td>36</td>
<td>-84</td>
<td>28</td>
</tr>
<tr>
<td>Antenna Gain + Cable Loss [dB]</td>
<td>4</td>
<td>28</td>
<td>-77</td>
<td>20</td>
<td>-68</td>
<td>12</td>
</tr>
</tbody>
</table>

*Precision. Passion. German Engineering.*
Reader Sensitivity is becoming the limiting factor.
2017 Miami  38.181  7 Minutes
2017 Miami 38.181 7 Minutes