
Suggested Tools

<table>
<thead>
<tr>
<th>QTY</th>
<th>Description</th>
<th>Image</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Needle nose pliers</td>
<td><img src="image.png" alt="Image" /></td>
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</table>
### Included

<table>
<thead>
<tr>
<th>Qty</th>
<th>Description</th>
<th>Image (not to scale)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>Self-locking Stainless Steel Zip Ties</td>
<td></td>
</tr>
<tr>
<td></td>
<td>- Only one is needed. The other is a spare.</td>
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</tr>
<tr>
<td>5</td>
<td>Flexible Silicone Strips</td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Stainless Steel Spike</td>
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**Step 1:** Insert Stainless Steel Zip Tie into the Silicone Strips
- Make sure all of the holes on the Silicone Strips, for the Stainless Steel Spikes, are facing the same direction.

*Figure 1*
Step 2: Make the rain spike strip into a circle and insert the pointed end of the Stainless Steel Zip Tie into the self-locking clip
- DO NOT FULLY TIGHTEN. Leave some slack for Step 4

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Ensure the holes in each silicone strip are facing up

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Do not fully tighten / remove the slack in the Zip Tie until Step 4
Step 3: Place the circle over the rain funnel.

![Figure 4](image)

Ensure the holes are facing up

Figure 4

Step 4: Using your needle nose pliers, firmly grab the tip of the Stainless Steel Zip Tie sticking through the locking clip. Tighten the Stainless Steel Zip Tie around the funnel by rotating the pliers, with Zip Tie firmly gripped between the pliers, away from the locking clip.
- If your funnel is the same configuration below, with Zip Tie pointing right and holes for Spikes facing up, you would rotate your wrist clockwise.

![Figure 5](image)

Figure 5
Step 5: Place the Stainless Steel Spikes into each hole of the Silicone Strip.

Step 6: Using the pliers, bend the Spikes over the opening of the rain funnel to prevent birds from nesting inside the funnel. Note, you will need to apply pressure to the silicone strip to prevent the Spikes from ripping the silicone material.
Step 7: Install the rain gauge funnel, spikes attached, into the sensor array. Rotate the funnel clockwise to attach to the sensor array. Section 5.3.4 of WS-1900, WS-2000 and WS-2902A manual.