1. Remove tube

2. Hold underwater to locate hole

3. Cut patch from old tube

4. Scratch patch area with hacksaw blade or sandpaper

5. Add patching glue to tube and patch

6. Press patch down hard on tube

---

**Tools Needed**

- Tire Lever
- Hacksaw Blade
- Cutting Tool
- Patching Glue

---

**Tube Repair**

World Bicycle Relief

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<table>
<thead>
<tr>
<th></th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>Master Link</td>
</tr>
<tr>
<td>B</td>
<td>Master Link</td>
</tr>
<tr>
<td></td>
<td>Side Plate</td>
</tr>
<tr>
<td>C</td>
<td>Retaining Clip</td>
</tr>
<tr>
<td>D</td>
<td>Chain</td>
</tr>
</tbody>
</table>

**Illustration:**

- **Master Link (A)**
- **Master Link (B)**
- **Side Plate (B)**
- **Retaining Clip (C)**
- **Chain (D)**

**Tools:**

- Pliers

**Warning:**

Avoid using grease on the chain.
<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>Axle</td>
<td></td>
</tr>
<tr>
<td>B</td>
<td>Hub Shell</td>
<td></td>
</tr>
<tr>
<td>C</td>
<td>Bearing (2)</td>
<td></td>
</tr>
<tr>
<td>D</td>
<td>Cone</td>
<td></td>
</tr>
<tr>
<td>E</td>
<td>Locknut</td>
<td></td>
</tr>
<tr>
<td>F</td>
<td>Axle Washers (2)</td>
<td></td>
</tr>
<tr>
<td>G</td>
<td>Axle Nuts (2)</td>
<td></td>
</tr>
<tr>
<td>H</td>
<td>Fork</td>
<td></td>
</tr>
</tbody>
</table>
# of crossings | Hub holes
---|---
4x | 10
3x | 8
2x | 6
1x | 4

-or-

intertwine

intertwine
Wheel Alignment

Truing

Rounding

Dishing

Correctly Dished

Rim Off Center

Rim Off Center

Loosen

Tighten

Spoke Wrench