## 4.2.2. REPLACING THE RIM ON THE CROSSLAND AND CROSSMAX ENDURO DISC WHEELS

### 4.2.2.1. Replacing the front rim on the Crossland and Crossmax Enduro Disc wheels

The 2 main principles of building the front Crossland and Crossmax Enduro Disc wheels are the following :

- The **non-braking spokes** are placed **in the inside slots** on the hub, disc side as well as non-disc side;
- The **braking spokes** are placed **in the outside slots** on the hub, disc side as well as non-disc side.

**Tools needed**

• 1 alu spoke wrench M40494 or M40652 (for the Crossmax Enduro Disc wheel)
• 1 classic spoke wrench (for the Crossland wheel)
• 1 tensiometer + tension-reading conversion chart adapted to the tensiometer used

**1.** Start on the disc side ;
**2.** Turn the rim in front of you so the 2 raised indicator bumps are to the left of the valve hole (valve hole near you) and prepare building the 1st half of the disc side :
  **2.1.** Put a spoke in the first hole to the right of the valve hole (hole near the raised indicator bumps). Then put a spoke in **1 out of every 4 holes** :
    • For the Cosmos and Ksyrium Equipe wheels : Tighten the nipples on the spokes until the nipples start breaking.
    • For the Crossmax Enduro wheel : Tighten the nipple on the rim until the red brake ring disappears.
  **2.2.** Insert these spokes in the **inside** slots on the hub disc side. These are **non-braking** spokes.
**3.** Then prepare building the **2nd half of the disc side** :
  **3.1.** Put a spoke in the 3rd hole to the right of the valve hole. Then put a spoke in 1 out of every 4 holes, following the nipple adjustment instructions above ;
  **3.2.** Insert these spokes in the **outside** slots on the hub disc side. These are **braking** spokes. The disc side is ready.
**4.** Turn the wheel over to prepare building the **1st half of the non-disc side** :
  **4.1.** Put a spoke in the 3rd hole to the right of the valve hole. Then put a spoke in 1 out of every 4 holes, following the nipple adjustment instructions above ;
  **4.2.** Insert these spokes in the inside slots on the hub non-disc side. These are **non-braking** spokes.
**5.** Then prepare building the **2nd half of the non-disc side** :
  **5.1.** Put a spoke in the 1st hole to the right of the valve hole. Then put a spoke in 1 out of every 4 holes, following the nipple adjustment instructions above ;
  **5.2.** Insert these spokes in the **outside** slot on the hub non-disc side. These are **braking** spokes. The non-disc side is ready.
**6.** Tighten every spoke in the rim evenly to adjust the tension of the wheel ;
**7.** Set the final tension and center the wheel (refer to product pages to know which tension is adapted to each wheel).

**The spokes have an anti-rotation system, which prevents them from turning in the hub. When setting the tension of the spokes, they will automatically lock in the hub.**

**Since they are an ABS type of nipple (Crossland) or integrate a brake ring (Crossmax Enduro Disc), it is not necessary to use thread lock.**

**CAUTION : Manipulating the spoke nipples on the Crossmax Enduro Disc wheel greatly affects the spoke tension and consequently the wheel adjustment. In the final phase of adjusting the tension, 1/4 turn of the nipple corresponds to about 0.3 mm of lateral rim movement.**


2.2


3.2


4.2


5.2