

3.2.1. REPLACING THE RIM ON THE SPEEDCITY™ AND DEEMAX® UST WHEELS

3.2.1.1. Replacing the front rim on the Speedcity™ and Deemax® UST wheels

Tools needed:

- 1 spoke wrench
- 1 tensiometer + tension-reading conversion chart adapted to the tensiometer used.
- 1 hollow screw wrench M40630
- Oil
- Loctite® 243 type of thread lock or equivalent
- A pack of hollow screws (M40595, per packs of 40)

- 1** Prepare the spokes : First place a hollow screw on the spoke head. Then tighten the spoke nipple until it stops.
- 2** Start on the disc side.
- 3** With the rim flat, locate the valve hole and turn the rim so the bar code sticker is facing you, with the valve hole near you.
- 4** Prepare the **1st half of the disc side (non-braking spokes)** :
 - 4.1** Put a spoke in the 1st hole to the right of the valve hole and tighten the hollow screw in the rim one turn, and put the spoke head in the first slot inside the hub, disc side (the flat surface of the spoke in the axis of the slot) ;
 - 4.2** Repeat this procedure for all the slots inside the hub, disc side, 1 hole out of 4 in the rim: the first half on the disc side is ready.
- 5** Then prepare the 2nd half of the disc side (braking spokes) :
 - 5.1** Put a spoke in the 3rd hole to the right of the valve hole and tighten the hollow screw in the rim one turn, and put the spoke head in the outside slot on the hub, disc side, (the flat surface of the spoke in the axis of the slot), crossing over the 1st spokes that were placed.
 - 5.2** Repeat this procedure for all the outside slots on the hub on the disc side, 1 hole out of 4 in the rim : the 2nd half on the disc side is ready.
- 6** Turn the wheel over to prepare the 1st half on the side opposite the disc (non-braking spokes):
 - 6.1** Put a spoke in the 3rd hole to the right of the valve hole and tighten the hollow screw in the rim one turn, and put the spoke head in the inside slot on the hub on the side opposite the disc (the flat surface of the spoke in the axis of the slot);
 - 6.2** Repeat this procedure for all the inside slots on the hub on the side opposite the disc, 1 hole out of 4 in the rim : the first half on the side opposite the disc is ready.
- 7** Finally, prepare the 2nd half of the side opposite the disc (braking spokes) :
 - 7.1** Put a spoke in the 1st hole to the right of the valve hole and tighten the hollow screw in the rim one turn, and put the spoke head in the outside slot on the hub on the side opposite the disc (the flat surface of the spoke in the axis of the slot), crossing over the spokes in the first half.
 - 7.2** Repeat this procedure for all the outside slots on the hub on the side opposite the disc to build the last spokes.
- 8** Put a Loctite® 243 type of thread lock on every hollow screw and tighten each screw using the wrench M40630 (torque 5.5 Nm) ;
- 9** Put a drop of oil around each spoke nipple in the hollow screws so the nipple can turn freely in the screw.
- 10** Adjust the final tension of the wheel : 120 - 130 kg for the disc side of the front wheel. Since the spoke nipples are a type of ABS, it is not necessary to use thread lock.
- 11** Check the lateral and radial truing of the wheel.

