Tools needed:

- 1 spoke wrench alu M40494 or M40652
- 1 x 5 mm Allen wrench (for the front wheel)
- 1 x 10 mm Allen wrench (for the front wheel)
- 1 hub wrench M40123 (for the front wheel)
- 1 tensiometer + tension-reading conversion chart adapted to the tensiometer used.

- When replacing a spoke on the Crossmax™ XL front wheel, you need to remove the axle beforehand by following the procedure described on page 17, and remove the spoke retention plates M40461.
- When replacing a spoke on the free wheel side of the rear wheel, you need to remove the retention clip beforehand and make sure you don't bend it.

1 Start by removing the defective spoke :

1.1 Loosen the spoke nipple using the alu spoke wrench M40494 or M40652.

1.2 Remove the spoke head from the hub.

2 Mount the new spoke in the hub by pivoting it until it can no longer turn.

3 Tighten the spoke nipple using the alu spoke wrench M40494 or M40652 ;

4 Adjust the tension (120 - 130 kg for the front wheel disc side (if necessary) and 130 - 140 kgs on the free wheel side of the rear wheel) ;

5 Check the lateral and radial truing of the wheel.

Since the brake ring locks the nipples in place, it is not necessary to use thread lock.

CAUTION : manipulating the integrated nipples 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.