

MOUNTING XLQ900 SPEED REDUCERS

Fits XLA900, XLC900, XLK900, XLQ900 and XLA800 series Roller Skis rev. 5/22

Caution! Roller skiing can be dangerous. Wear a helmet and other appropriate safety equipment. Ski in areas with little or no traffic. If you are a beginner, seek advice from an experienced roller skier and always use common sense when roller skiing. The V2 DVD, "Becoming a Better Skier", is an excellent instructional video for both beginners and experienced skiers. Remember to inspect all equipment every time you ski. Tighten loose parts, grease any metal-on-metal parts such as notched speed reducer arms.

TOOLS REQUIRED. A 10mm open end or socket wrench, a fine-tooth wood /hack saw or **sharp box cutter**, a 5mm Allen wrench.

MATERIALS INCLUDED IN THE XLQ900 SPEED REDUCER KIT: Two Speed Reducer Assemblies –
Two 6 X 65mm bolts - Four 4mm wide nylon spacers - Two rectangular aluminum plates with an adhesive liner

REMOVING THE FENDER SECTION FROM THE FRONT WHEEL FORK HOUSING: Mount the skis in a vise. Place two pieces of wood or other protective device between the vise jaws and the ski so the ski shaft will not be damaged. The composite fork fenders are designed so that two simple cuts create an opening in the fender for the speed reducer. There are two aluminum plates with the speed reducer kit. Take one plate with the adhesive liner and remove the protective paper. Place the aluminum unit up against the edge of the fender step as shown in **Figure 1** and press down so the adhesive sticks. Insert the aluminum plate without the adhesive in the slot of the fender opening as shown (**Fig 1**). The second aluminum plate is inserted under the section to be cut so that you will not accidentally cut into the wheel. Using your cutting tool, cut along the edge of the aluminum plate using it as a guide until the thin fender section separates from the wheel fork housing. Next, move the aluminum plate under the fender for the second cut. Cut until the fender section separates from the wheel fork housing.

MOUNTING THE SPEED REDUCER: Remove the wheel bolt and the first retaining bolt of the wheel fork as shown in **Figure 4**. **Do not remove the wheel.** Slide the Speed Reducer assembly over the wheel fork housing as shown in **Figure 5** install the shaft bolts. Replace the 60mm aluminum bolt that was in the wheel fork with the steel 65mm bolt provided. The two nylon 4mm thick spacers should be installed between the Speed Reducer plates and the wheel fork housing as shown in **Figure 6**. Next, take the wheel bolt and align the 6mm holes in the plates with the wheel fork holes and, **without the square washers**, insert the bolt and tighten snugly with the 6mm nut. **In order for the clutch to operate properly in the front ratchet wheel the nut must be tightened to 120 – 140 inch-pounds or 14 Newton Meters. It is the tension in the bolt that locks the clutch.**

