Mounting instruction for Item N°. 8603 Viscous locking differential, set

suitable for all 1:5 scale models, 1:6 Race Trucks, Buggies, Monster Trucks and Formula 1 models.

Mounting

The flange bushes 8602/2, roller bearing 8602/1 as well as the shaft sealing rings 8600/6 and the ball bearings 8493 were professionally mounted on the alloy differential housings

Now assemble the steel gearwheel 48 or 50 teeth on the alloy differential housing A, for Formula 1 models use the differential gear disk 42 teeth.

Check internal and external fins on burrs, remove them if necessary with coated abrasives. Make sure you don't twist the fins.

Now mount the fin package as shown on the picture: Attach a differential bevel gearwheel with square on a differential bevel wheel axle. Then fix on the square in this order: 1x internal fin, 1x o-ring 14x1,5, 1x external fin, 1x internal fin, 1x o-ring 14x1,5, 1x external fin, 1x internal fin and last 1x external fin. Lubricate the shim rings 8600/13 with a little bit of grease and lay them on the flange bush 8602/2 in the diff. housing. Insert the complete package now as shown on the picture in the differential housing A. Then press the differential bevel gearwheel together with the fin package with a screw driver against the housing and pull out the differential axle carefully. Push both bronze bushes 8600/8 from the inside outwards into the borings of the differential housing. Deposit the differential bevel gearwheels B in the housing and impress the diff. bevel wheel axle 6068. Lubricate the 8mm shaft of the ball diff. axle 6069/2 with plenty of oil and push it from the outside into the differential housing. The borings of the alloy differential housing must be aligned with the borings of the diff. bevel gearwheels. In case of a misalignment of the borings you have to dismount the gearwheels again and remount them one tooth offset until you are able to turn all parts easily. Install the o-rings 3x1 and 42x1,5 as shown on the picture.

Insert the differential bevel gearwheel with square into the alloy differential housing B and press the ball diff. axle from the outside into the housing. Fix the shim rings 8600/13 between ball diff. axle and diff. housing. Check the ball diff. axle on easy running.

Now assemble both housing parts, check them on smooth running and fix them together with enclosed M3x20 screws.

Fill approx. 20-25ml of enclosed silicone oil into the boring of the alloy differential housing B. Afterwards seal the boring with the locking screw M8x1/ copper disk. The locking effect can be influenced by the number of fins, the viscosity of the silicone oil which has to be filled in and the filling quantity.

Pict.2



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Spare parts

8602/1

8602/2

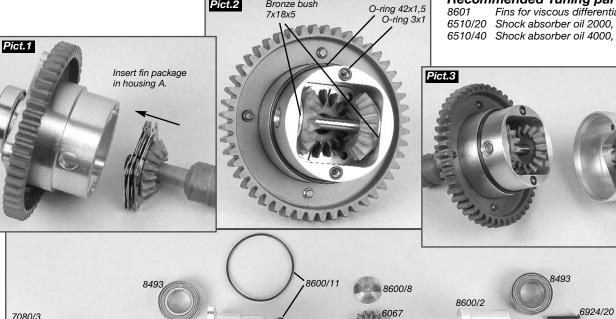
Bevel differential gearwheel B, 2 pcs. 6067 6068 Bevel diff. gear axle, 1 pce. 6069/2 Ball diff. axle, 1 pce. 6510/10 Shock absorber oil 1000, 1 pce. 6924/20 Pan-head screw w. Torx M3x20, 10 pcs. 7080/3 Distance disks, 4 pcs. 8493 Ball bearing 15x28x7, 2 pcs. 8500/3 Bevel diff. gearwheel self-locking, 2 pcs. Alloy housing A for viscous diff., 1 pce. 8600/1 8600/2 Alloy housing B for viscous diff., 1 pce. 8600/3 External fins, 3 pcs. 8600/4 Internal fins, 3 pcs. 8600/6 Shaft sealing ring 8x12x3, 2 pcs. Bronze bush 7x18x5, 2 pcs. 8600/8 Copper disk 8x12x1, 2 pcs. 8600/9 8600/10 Locking screw M8x1, 1 pce. 8600/11 O-rings f. viscous differential, set 8600/13 Shim rings 8x16x0,5, 4 pcs.

Roller bearing 8x12x8, 2 pcs.

Bronze-flange bush 8x12/16x4, 2 pcs.

Recommended Tuning parts

Fins for viscous differential, set Shock absorber oil 2000, 1 pce. 6510/20 6510/40 Shock absorber oil 4000, 1 pce.



Bronze bush

