

ALTON ESKN : ABOUT THE DOUBLE GEAR



18 mm socket
(if you don't
have a press)

Geared hollow axle

50 tooth sprocket + spindle

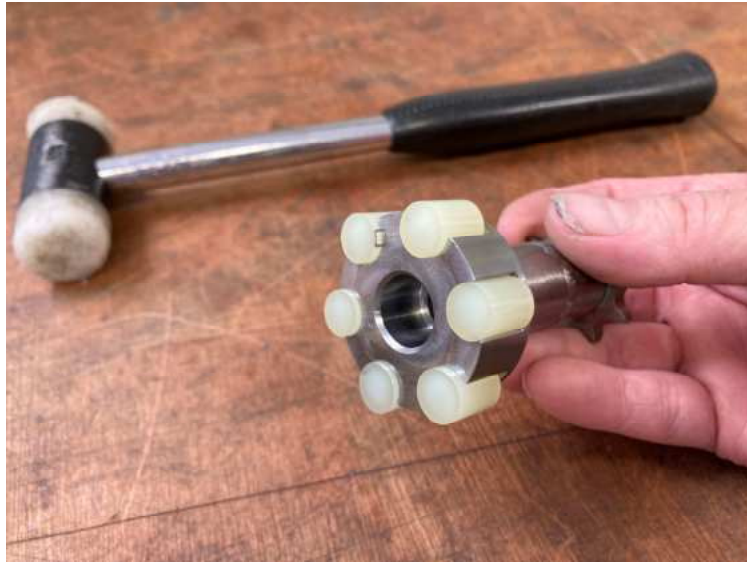
Polyurethane inserts

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This is how the polyurethane inserts should be located, slightly protruding from their slots.



Not strictly necessary but this small trick may help to hold the inserts in place.



Assemble the 2 parts while maintaining the inserts in their slots and pushing them gently in the matching slots.



The geared hollow axle should be fully pushed in the 50 tooth sprocket recess.

3 or 6 polyurethane inserts ?

Inserts, plugs, dowells, sheer pins, whatever you call them...

We have tested several materials of different types with varying numbers of inserts. For several years, we assembled our double gears with 3 dowels made of 95-shore polyurethane.

From our experiences and feed backs of users, we now consider that assembling with 6 dowels made of 90-shore polyurethane offers the best compromise between smooth starting, durability, and safety in case of violent kickbacks.

Whilst this mechanism is resilient mechanically to occasional backfires, the stress caused by backfires is considerable. Persistent backfires should be investigated and fixed immediately. A bike that kicks back like a mule is going to break the kit.

Alton, June 2025.