

### 1. FRAME CONNECTION





- 1. Remove transmission according to instructions.
- 2. Push out, clean and grease adapter sleeves.
- 3. Clean and check faces on the frame.
- 4. Check screw fittings of special components (e.g., Tout Terrain TBA system).
- 5. Apply carbon assembly paste.
- 6. Install transmission according to instructions.

#### PROBLEM NOT CORRECTED → CONTINUE WITH CHECK 2







# 2. CRANK CONNECTION



# NO, NO CRACKING NOISES -> CONTINUE WITH CHECK 3 YES, IT MAKES CRACKING NOISES!

- 1. Remove crank arms according to instructions.
- 2. Clean crank toothing.
- 3. Check wear pattern of crank toothing.
- 4. If wear pattern is not OK: contact Pinion.
- 5. If wear pattern is OK: continue with step 6.
- 6. Mount crank arms according to instructions.







# 3. DRIVETRAIN





# NO. NO CRACKING NOISES → CONTINUE WITH CHECK 4

#### YES, IT MAKES CRACKING NOISES!

- 1. Remove chain sprocket or belt pulley. If using a spider, remove fittings from spider.
- 2. Clean and then grease all contact surfaces; mount fittings on spider with zero backlash.
- 3. Grease lock-ring screw fitting and tighten with 40 Nm instead of 30 Nm (left-handed thread!).
- 4. Remove the sprocket or belt pulley from the rear hub. Clean, grease and remount.
- 5. Check fastening of rear wheel and screw connections on dropouts.
- 6. Check toothing on freehub body and bearings of rear hub.
- 7. Check alignment of toothed belt according to manufacturer's specifications.
- 8. Check toothed belt or chain for wear.

#### PROBLEM NOT CORRECTED → CONTINUE WITH CHECK 4

#### CHECKED

# 4. OTHER COMPONENTS

#### LIST OF POSSIBLE SOURCES OF CRACKING NOISES:

- Connection between saddle and seatpost
- Connection between seatpost and frame
- Defective rear hub
- Defective freehub
- Fastening of disc brake caliper
- Rear linkage on full-suspension bicycles



CHECKED

# **TECHNICAL SUPPORT**

FOR SERVICE REQUESTS, ALWAYS HAVE THE TRANSMISSION SERIAL NUMBER **READY!**SUPPORT@PINION.EU TEL.: +49 (0)711/217 491-590