INSTALLATION INSTRUCTIONS – DQ500 DIFFERENTIAL REPAIR KIT

22600 / V10-000554 / V10-000554-XXL | VW T5/T6 | DQ500 0BT / 0BH | FRONT-WHEEL DRIVE (FWD)

IMPORTANT NOTE

These installation instructions are a supplementary workshop aid and do not replace vehicle-specific repair data. Installation must only be carried out by qualified personnel. Tightening, adjustment, test, filling and wear-limit values must be obtained exclusively from current data supplied by a suitable technical data provider or from approved repair information issued by the vehicle manufacturer. Installation and final functional testing are the responsibility of the specialist workshop.

1. OPEN GEARBOX / REMOVE DIFFERENTIAL

1. Open the gearbox in accordance with vehicle-specific repair data. Slightly lift the shaft assemblies and carefully move them aside; a second technician should assist with this step.
2. Remove the differential assembly. The shaft assemblies may remain in the gearbox during the repair.
3. Clamp the differential horizontally and securely in a vice with plastic jaws to prevent component damage.

2. DISASSEMBLE FINAL DRIVE DIFFERENTIAL

1. Remove the connecting bolts between the final drive gear and differential housing. Position the tool so that bearings and adjacent components are not damaged.
2. Separate the differential housing from the final drive gear. Remove retaining pins and shafts with a suitable drift tool; first remove the central through-shaft and the first two bevel gears.
3. Drive the remaining shafts out from inside to outside and remove the remaining bevel gears. Remove the guide piece and shaft bevel gear upwards. Keep all parts clean and sorted by position.

3. INSPECT / RENEW PARTS

1. Inspect splines, bevel gears, thrust washers, shafts, retaining pins, sealing surfaces and contact surfaces for corrosion, wear or damage.
2. Renew the left/right shaft bevel gears and the fastening, sealing and wear parts included in the relevant repair scope.
3. When renewing bevel gears and thrust washers, ensure no old washer remains stuck to the housing, no washer is installed twice and the washers do not move while the shafts are inserted.
4. Transfer the measured thrust washer from the old shaft bevel gear if required by the vehicle-specific repair information.

4. ASSEMBLE FINAL DRIVE DIFFERENTIAL

1. Install the shafts in the correct position; the locating groove must be correctly aligned. First install the central through-shaft with the associated bevel gears and guide piece, then secure it immediately.
2. Install and secure the remaining bevel gears and shafts accordingly.
3. Before joining the differential housing to the final drive gear, carry out a manual functional check. All gears must rotate freely without binding.
4. Join the differential housing and final drive gear. Use new connecting bolts and tighten them according to current vehicle-specific repair data.

5. REFIT / FINAL WORK

1. Refit the differential; slightly lift and move the shaft assemblies aside with assistance from a second technician.
2. Check the correct position of selector forks, shafts, bearings and housing markings. Verify the parking-lock lever is in the correct position before closing the gearbox.
3. Lower the gearbox housing evenly and without tilting. Do not drive the housing onto bearings or fits with a hammer or similar tool.
4. While lowering the housing, ensure exact alignment of ball sleeves and gear actuators. Replace damaged components; no loose balls or small parts may remain inside the gearbox.
5. After assembly, turn the input shafts by hand and check for free movement. Renew kit components such as filters, seals, oil pipes and covers according to their installation position and vehicle-specific repair data.
6. Fill transmission oil according to the vehicle-specific specification and carry out final functional and leak checks. V10-000554-XXL includes transmission oil; V10-000554 is supplied without oil.

CAUTION

Do not continue assembly if components are damaged or their installation position is unclear. Before completing the work, check all components for correct seating and free movement. Current vehicle-specific repair data always take precedence.

22600_Einbauhinweis-Differential-Reperatursatz-V10-000554 | Verison 20.10.26