

CONTROL AND REPAIR OF THE TIE ROD ARM MOUNTING IN 9 AND 10 TON DRIVE STEER FRONT AXLES

This instruction concerns FSDP-09/10-S, FSTP-09/10-S and FSMP-10-S drive steer axles from serial number 10135 (January 2001) to serial number 163642 (August 2006).

Description of the subject:

In the axles mentioned above there may appear fault in the mounting surfaces of the tie rod arms (LH 540-241-6610 and RH 540-241-6600). In the approx. 60 mm wide unmachined area there may have been left some spots which are higher than the machined surfaces (Picture 1.).

This may cause weakening in the tie rod arm mounting. That is why the axles between the above mentioned serial numbers have to be checked and repaired if needed.

Actions:

1. Unfasten the tie rod arm mounting bolts.
2. Remove all possible dirt and rust in the mounting surfaces of the tie rod arm and the steering knuckle.
3. Check the mounting surface straightness of the tie rod arm with a straightedge. The minimum gap is 0.1 mm. If the gap is smaller then there should be grinded away about 1 mm deep of the material In the approx. 60 mm wide area between the bolt holes (Picture 2.). Finally check again the straightness of the mounting planes. If the planes are not even or if there are any defects in the planes, the tie rod arm should be replaced by a new one or by tie rod arm refurbished by Sisu Axles.
4. Renew both tie rod arm mounting bolts. Part numbers are 90311-24908 (M24x90) in axles FSDP-09/10-S and FSMP-10-S. Because of the 10 mm thick spacer plate in the FSTP-09-S axles the bolts are then mm longer 90311-24118 (M24x100).
5. Clean the possible protective grease of the mounting bolts and use Loctite 242 or equivalent thread locking liquid and tighten the bolts to 940 Nm torque.



Picture 1.
Faulty mounting surface in tie rod arm



Picture 2.
Checking the mounting surface