

TECHNICAL SERVICE BULLETIN RAFNA RAILGEAR

KAFNA KAILGEAK			
ISSUE DATE:	March 3, 2015	TSB NUMBER:	TSB-193
HAZARD / URGENCY RATING			
X	DANGER - Physical harm is possible if TSB is not observed or followed		
X	WARNING - Equipment damage is possible if TSB is not observed or followed		
X	CAUTION - Essential issue affecting operation, service, parts or installation		
Х	INFORMATIONAL - Advisory which may be of interest		

APPLICABLE EQUIPMENT:

R290 Railgear, R450 Railgear, and R460 Railgear

SUMMARY:

Possible missing cotter pins in 10" wheel assemblies.

IMPACT:

Can cause bearing failure, and or possible loss of wheel from axle assembly.

ACTION:

Recommended method of Inspection

- 1. Remove hub Cap.
- 2. Remove small amount of grease to expose cotter pin location.
- 3. If cotter pin is installed remount hub cap using loctite blue and torque to 12 ft/lbs.
- 4. If cotter pin is missing go to step 5.
- 5. If this is a new install which has not been on rail, you will need to re torque the wheel bearings and insert cotter pin. Make certain that cotter pin is bent over at ends so it cannot fall out. If the vehicle is not a new install, and has seen track time, go to step 6.
- 6. Remove Taper Roller Bearings and oil seal along with all grease.
- 7. Inspect bearings and races for damage. If damaged replace with new bearings and oil seal.
- 8. Use a magnetic base dial gauge to measure the end-play of each rail wheel bearing affected. The bearing end-play must be between 0.001" and 0.005". if this is not the case adjust as follows:
- 9. Ensure the wheel bearing cavity is full of grease.
- 10. While rotating the rail wheel forward, torque the spindle nut to 20 ft-lbs. then loosen the spindle nut and re-torque it to 6 ft-lbs. Re-check and re-adjust the bearing end-play if required. If no torque wrench is available, tighten the spindle nut until the rail wheel is difficult to turn by hand. Then loosen the spindle nut and retighten it just until no looseness can be felt in the bearing. Re-adjust the bearing end-play with a torque wrench as soon as possible.
- 11. Install a new cotter pin through the spindle nut. Make certain that the cotter pin is bent over to insure that it cannot fall out.
- 12. Follow step 3 to install hub cap.