

M.R.253

Jeep

Grand Wagoneer/ Truck

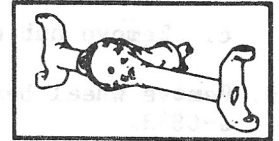
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FEBRUARY 1984
ENGLISH EDITION

WAGONEER/TRUCK
10-20 SERIES



FRONT AXLE

Attention: Workshop, Parts Department

SUBJECT: Front Wheel Bearing (Type "S" Campaign): Some Front Wheel Bearings On Some 1984 Grand Wagoneer and Truck Models Built Between VIN 1JXXXXXXXXX000150 and VIN 1JXXXXXXXXX068730, May Have Received Less Than The Specified Amount Of Lubricant

This is a Type "S" Campaign subject to all campaign procedures involving safety related elements.

Service correction involves inspection, packing, and replacing the front wheel bearings and cups, if required, as outlined in the following procedure.

Procedure

Wheel Bearing Removal

1. Remove front wheel covers and loose wheel retaining nuts.
2. Raise the vehicle.
3. Remove front wheels.
4. Remove two-thirds of the brake fluid from the master cylinder front reservoir.
5. Bottom front brake caliper pistons in bores. Insert screwdriver between piston and inboard shoe and press piston into bore. If piston is difficult to move, use large C-clamp.
6. Remove caliper mounting bolts.
7. Remove the calipers by lifting upward and out of shield and support. Place calipers on front spring or other suitable support. Do not allow brake hoses to support weight of calipers.
8. On models without locking front hubs:
 - a. Remove rotor hub cap (see illustration).
 - b. Remove drive gear snap ring and remove drive gear, pressure spring, and spring cup.

9. On models with locking front hubs:
 - a. Remove socket head screws attaching hub body to hub clutch and remove hub body from clutch.
 - b. Remove large and small hub retaining rings.
 - c. Remove hub clutch from axle shaft.
10. Remove wheel bearing outer and inner locknuts and retaining washers with Tool J-6893.
11. Remove rotors.
12. Remove grease seals and wheel bearings from rotors (see illustration).

Wheel Bearing Inspection and Installation

1. Inspect the quantity of lubricant on the wheel bearings.
 - a. If the bearings contain the specified amount of lubricant (1.5 to 2.0 ounces per bearing), proceed to step 2.
 - b. If the bearings do not have the specified amount of lubricant (1.5 to 2.0 ounces per bearing), replace the bearings and bearing cups; then proceed to step 2.
2. Pack the wheel bearings as required with the specified amount (1.5 to 2.0 ounces per bearing) of AMC/Jeep/Renault All Purpose Lubricant 899 3631, or an equivalent EP-type, waterproof, lithium base lubricant.
3. Install the wheel bearings and replacement grease seals, 535 9703, in the rotors.
4. Install the rotors and install inner locknuts with Tool J-6893.

CAUTION: The inner locknut has a locating peg on one side. This peg must face away from the bearing when installed.
5. Install wheels on rotors but do not tighten wheel nuts completely at this time.
6. Tighten inner locknuts to 50 foot-pounds (68 N·m) torque with Tool J-6893. Rotate wheel while tightening locknuts to seat bearings uniformly.
7. Back off inner locknuts 1/6 turn (45° - 65° or one nut flat) while rotating wheel.
8. Install retaining washers and outer locknuts.

CAUTION: Be sure the inner locknut locating peg is engaged in one of the retaining washer holes before installing the outer locknut.
9. Tighten outer locknuts to minimum of 50 foot-pounds torque (68 N·m) with Tool J-6893.

10. Remove front wheels.
11. On models without locking front hubs:
 - a. Install pressure spring cup.

CAUTION: The spring cup must be installed so the recessed side of the cup faces the outboard bearing and the flat side of the cup faces the pressure spring.
 - b. Install pressure spring, drive gear and snap ring.
 - c. Coat rim of chrome hub cap with Permatex Form-A-Gasket number 3, or equivalent, and install cap in rotor hub.
12. On models with locking front hubs:
 - a. Install hub clutch on axle.
 - b. Install large and small hub retaining rings.
 - c. Install hub body on clutch and install socket head screws. Tighten screws to 30 inch-pounds (3 N·m) torque.
13. Install front brake calipers. Tighten caliper mounting bolts to 35 foot-pounds (47 N·m) torque.
14. Reinstall the wheels but do not tighten the wheel nut completely.
15. Lower the vehicle and tighten wheel nuts to 75 foot-pounds (102 N·m) torque on Grand Wagoneer and J-10 Truck. On 8400 GVW J-20 Truck, tighten nuts to 130 foot-pounds (176 N·m) torque.
16. Install the wheel covers.
17. Check and adjust master cylinder fluid level. Add fluid as required to within 1/4 inch (6.35 mm) of reservoir rim.
18. Apply brakes several times to seat brakeshoes. Then check and adjust master cylinder fluid level again.
19. Test brake operation before moving vehicle.
20. Place a six-inch long white paint mark on the front of the drivers side axle tube to indicate campaign inspection/completion.

PARTS

<u>Description</u>	<u>Quantity</u>	<u>Part Number</u>
BEARING, Front Wheel Inner	AR	535 7401
CUP, Front Wheel Inner Bearing	AR	535 7394
SEAL, Front Wheel Grease	2	535 9703

S.R.T. Information

<u>Operation Description</u>	<u>T.I.C.</u>	<u>Operation Number</u>	<u>S.R.T.</u>
CO. BEARING, WHEEL - REPACK OR REPLACE, (Both Sides)	0-731	2775	1.8

Filing Instructions

File this I.S. Note in your Jeep Supplement No. 1 binder temporarily. Then transfer it to the M.R. 253 binder when you receive your copy of this manual.

