THIS BULLETIN SUPERSEDES TECHNICAL SERVICE BULLETIN 02-14-99, DATED NOV. 5, 1999, WHICH SHOULD BE REMOVED FROM YOUR FILES. ALL REVISIONS ARE HIGHLIGHTED WITH **ASTERISKS** AND INCLUDE REVISED HUB/BEARING ASSEMBLY PART NUMBERS.

SUBJECT:
Vibration Or Grinding Noise From Front Wheel Area

OVERVIEW:
This bulletin involves replacing the front axle hub/bearing assembly(ies) and in some cases, the steering knuckle(s).

MODELS:
- 2000 (AN) Dakota
- 2000 (DN) Durango

NOTE: THIS BULLETIN APPLIES TO 4X4 VEHICLES BUILT BEFORE AUGUST 31, 1999 (MDH 0831XX).

SYMPTOM/CONDITION:
Vibration or grinding noise coming from the front wheel area. The vibration or grinding noise may be caused by a low mileage failure (less than 100 miles of vehicle operation) of the front axle hub/bearing assembly.

DIAGNOSIS:
If the vibration or grinding noise in the front wheel area is caused by a malfunctioning front axle hub/bearing assembly, perform the Repair Procedure.

PARTS REQUIRED:
- **AR (2) 52069361AB** Assembly, Hub/Bearing, Vehicle Equipped With Rear Wheel Antilock Brakes**
- **AR (1) 52068964AE** Assembly, Hub/Bearing, Vehicle Equipped With Four Wheel Antilock Brakes, Right Side**
- **AR (1) 52068965AE** Assembly, Hub/Bearing, Vehicle Equipped With Four Wheel Antilock Brakes, Left Side**
- AR (1) 52106406AB Knuckle, Steering, Right
- AR (1) 52106407AB Knuckle, Steering, Left

REPAIR PROCEDURE:
1. Raise the vehicle on a hoist.
2. Remove the tire/wheel assembly from the side of the vehicle creating the noise.
3. Remove the disc brake caliper slide pins.
4. Remove the disc brake caliper.
5. Support the caliper with a wire from a suspension component.
CAUTION: DO NOT ALLOW THE BRAKE HOSE TO SUPPORT THE WEIGHT OF THE CALIPER.

6. Remove the disc brake rotor retainers and remove the rotor.
7. Remove the axle spindle nut (Figure 1).

8. If equipped, remove the four wheel Anti-lock Brake System (ABS) front wheel speed sensor.
9. Remove the hub/bearing mounting bolts from the steering knuckle.
10. Slide the hub/bearing out of the steering knuckle and off the axle.
11. Inspect the steering knuckle to ensure that the knuckle has a 45° chamfer on the outer edge of the hub/bearing attachment hole (Figure 2).
12. If the 45° chamfer is on the steering knuckle, proceed to the Step 14. If the 45° chamfer **IS NOT** on the steering knuckle, proceed to the next step.

13. Replace the steering knuckle (see Parts Required section). For information regarding steering knuckle service, refer to the appropriate 2000 Service Manual, Group 02, Steering Knuckle Removal/Installation procedures. Once the steering knuckle has been replaced, proceed to Step 14.

14. Install the new hub/bearing assembly (see Parts Required section) into the steering knuckle. Tighten the bolts to 166 N•m (123 ft. lbs.).

15. Install the disc brake rotor.

16. Install the disc brake caliper/shoe assembly over the rotor and into the ledges in the steering knuckle. Be sure the ends of the brake shoes are properly seated on the slide surfaces of the ledges.

17. Align the caliper in the adapter and install the caliper slide pins. Tighten the slide pins to 30 N•m (22 ft. lbs.).

18. If equipped, install the four wheel ABS front wheel speed sensor. Tighten the bolt to 18 - 25 N•m (160 - 220 in. lbs.).

19. Install the front axle nut. Tighten the nut to 235 N•m (173 ft. lbs.).

20. Install the wheel/tire assembly.

21. Perform steps 2 through 12 on the other side of the vehicle. If the 45° chamfer **IS NOT** on the steering knuckle, the steering knuckle and hub/bearing assembly must be replaced, proceed to Step 13. If the 45° chamfer is on the steering knuckle, unless the bearing has failed, neither the hub/bearing assembly nor the steering knuckle needs to be replaced. Re-install/replace the hub/bearing assembly into the steering knuckle. Tighten the bolts to 166 N•m (123 ft. lbs.) then proceed to Step 15.

**NOTE:** STEPS 2 - 12 MUST BE PERFORMED ON BOTH SIDES OF THE VEHICLE.

22. Lower the vehicle.

**POLICY:** Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

<table>
<thead>
<tr>
<th>Labor Operation No:</th>
<th>Description</th>
<th>Hours</th>
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<tbody>
<tr>
<td>22-45-02-98</td>
<td>Replace/Inspect Hub/Bearing Assemblies And Inspect Steering Knuckles</td>
<td>1.2 Hrs.</td>
</tr>
<tr>
<td>02-05-31-90</td>
<td>Replace/Inspect Hub/Bearing Assemblies And Replace One Steering Knuckle</td>
<td>1.6 Hrs.</td>
</tr>
<tr>
<td>02-05-31-91</td>
<td>Replace/Inspect Hub/Bearing Assemblies And Replace Both Steering Knuckles</td>
<td>2.0 Hrs.</td>
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**FAILURE CODE:** P8 - New Part