

# Technical Service Bulletin

**NUMBER:** 03-03-00

**GROUP:** Axle & Propeller Shaft

**DATE:** March 10, 2000

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**SUBJECT:**

A Whine-Like Sound Heard From Rear Of the Vehicle At Speeds Greater Than 40 MPH.

**OVERVIEW:**

This bulletin involves the installation of a dampened rear propeller shaft.

**MODELS:**

1999 – 2000 (WJ) Grand Cherokee

**NOTE: THIS BULLETIN APPLIES TO VEHICLES EQUIPPED WITH A 4.7L ENGINE BUILT BEFORE NOVEMBER 16, 1999 (NVH 1116XX).**

**SYMPTOM/CONDITION:**

A whine-like sound may be heard coming from the rear axle area of the vehicle at speeds greater than 40 mph (64 Km/h). The sound may be more noticeable once the vehicle powertrain components have reached normal operating temperatures.

**DIAGNOSIS:**

Road test the vehicle to confirm the condition.

**NOTE: A THOROUGH ROAD TEST AND DIAGNOSIS MAY BE REQUIRED. REFER TO TECHNICAL SERVICE BULLETIN (TSB) 03-05-99 FOR ADDITIONAL DIAGNOSTIC ASSISTANCE.**

If the above condition is present, then perform the Repair Procedure. If the condition is not present, or if there is still significant rear axle generated sound present after the following Repair Procedure has been performed, then further axle diagnosis may be required.

**NOTE: THIS REPAIR, BY ITSELF, WILL NOT CORRECT SIGNIFICANT REAR AXLE GENERATED SOUND. IN THOSE INCIDENCES, THIS REPAIR MAY BE MOST BENEFICIAL WHEN PERFORMED WITH AN AXLE REBUILD REPAIR.**

**PARTS REQUIRED:**

1	52099487AC	Rear propeller shaft (WJ - 4.7L with a NV-247 transfer case)
1	52111490AB	Rear propeller shaft (WJ - 4.7L with a NV-242HD transfer case)
1	52099486AC	Rear propeller shaft (WJ – 4.7L with no transfer case - 4x2)

**REPAIR PROCEDURE:**

1. Partially raise and support the vehicle.
2. Shift the transfer case to its Neutral position.
3. Raise the vehicle completely.
4. Remove the bolts holding the universal joint clamps to the pinion yoke.
5. Slide the propeller shaft forward to free the rear universal joint from the pinion yoke.

6. Slide the slip yoke off the transfer case output shaft and remove the propeller shaft.
7. Slide the new propeller shaft slip yoke onto the transfer case output shaft.
8. Position the universal joint into the pinion yoke.
9. Install the universal joint clamp and clamp bolts to the pinion yoke. Tighten the clamp bolts to 19 Nm (14 ft. lbs.).
10. Lower the vehicle.
11. Shift the transfer case to its 2H position.

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

**TIME ALLOWANCE:**

Labor Operation No: 16-30-02-97 .....0.3 Hrs.

**FAILURE CODE:** P8 – New Part