

Technical Service Bulletin

NUMBER: 21-03-00

GROUP: Transfer Case

DATE: March 10, 2000

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SUBJECT:

NV-242 And NV-242HD Transfer Case Oil Seepage From The Sector Shaft Oil Seal

OVERVIEW:

This bulletin involves the installation of a revised sector shaft, sector shaft seal, and repositioning the current sector shaft bearing on the NV-242 and NV-242HD transfer case.

MODELS:

1998 (AN) Dakota
1998 (DN) Durango
1999 (WJ) Grand Cherokee

NOTE: THIS BULLETIN APPLIES TO VEHICLES EQUIPPED WITH THE NV-242 OR THE NV-242HD TRANSFER CASE AND ANY GRAND CHEROKEE BUILT BEFORE MARCH 20, 1999 (MDH 0320XX).

SYMPTOM/CONDITION:

The customer may complain of a red-in-color oil seepage from under the vehicle. The oil seepage may be localized to the sector shaft seal of the transfer case.

DIAGNOSIS:

- 1). Raise and support the vehicle.
- 2). Determine if the oil seepage is coming from the transfer case sector shaft seal.

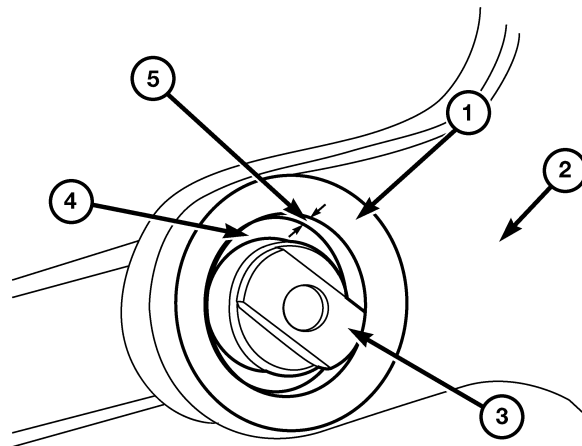
If the oil seepage is not from the transfer case sector shaft seal, then additional diagnosis is required. If the oil seepage is from the transfer case sector shaft seal, then perform the Repair Procedure.

PARTS REQUIRED:

1	05014048AA	Bolt, Sector Shaft Flange Hex Head
1	05014047AA	Sector Shaft, Transfer Case
1	05014046AA	Sector Shaft Seal
1	01664355	Roll Pin, Low Range Fork
1	04798117	Seal, Output Shaft (WJ only)
1	05016615AA	Slinger, Rear (WJ only)
1	04798121	Clamp, Boot to Mainshaft (WJ only)
1	04798122	Clamp, Boot to Slip Yoke (WJ only)
2	05010124AA	ATF+3, Transfer Case Lubricant (quart)
1	82300234	Mopar RTV for Gear Lube (Gray)

REPAIR PROCEDURE:

1. Raise and support the vehicle. Remove the transfer case from the vehicle. Remove the sector shaft and seal from the front case of the transfer case. Refer to the appropriate Service Manual, Section 21: Transmission and Transfer Case for removal, disassembly, assembly and installation instructions.
2. Using a suitable bearing driver, carefully recess the sector shaft bearing to a depth of 7.6 – 8.1 mm (0.300 - 0.320 inches). The distance is measured from the top edge / surface of the sector shaft bore to the top of the sector shaft bearing. Figure 1.



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FIGURE 1

- 1 – TOP SURFACE OF SECTOR SHAFT BORE
- 2 – FRONT CASE OF TRANSFER CASE
- 3 – SECTOR SHAFT
- 4 – TOP EDGE OF SECTOR SHAFT BEARING
- 5 – DISTANCE BEARING IS RECESSED INTO BORE

NOTE: DO NOT SCORE OR SCRATCH THE WALL OF THE SECTOR SHAFT BORE.

NOTE: DO NOT RECESS THE BEARING TOO FAR OR CONTACT BETWEEN THE BOTTOM OF THE SECTOR SHAFT BEARING AND THE SECTOR SHAFT WILL OCCUR.

4. Install the new sector shaft (p/n 05014047AA) and sector shaft seal (p/n 05014046AA). Make sure that the sector shaft seal is flush with the case.
5. Using the appropriate Service Manual procedures, assemble the transfer case and install both the transfer case and the rear propeller shaft.
6. Install transfer case fluid (p/n 05010124AA). Fill the transfer case to the correct level.
7. Lower the vehicle.

POLICY: Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:

21-38-04-90 (AN / DN) 2.1 Hrs.

21-38-04-90 (WJ) 2.3 Hrs.

FAILURE CODE: P8 – New Part