

Technical Service Bulletin

NUMBER: 21-011-01

GROUP: Transmission

DATE: November 12, 2001

This bulletin is supplied as technical information only and is not an authorization for repair. No part of this publication may be reproduced, stored in a retrieval system, or transmitted, in any form or by any means, electronic, mechanical, photocopying, recording, or otherwise, without written permission of DaimlerChrysler Corporation.

SUBJECT:

NV247 Transfer Case Seepage

OVERVIEW:

This bulletin involves replacement of the rear retainer snap ring access plug and transfer case vent cap and, resealing of the transfer case rear retainer housing.

MODELS:

1999 - 2000 WJ Grand Cherokee

NOTE: THIS BULLETIN APPLIES TO 1999 & 2000 MODEL YEAR (WJ) GRAND CHEROKEES EQUIPPED WITH AN NV247 TRANSFER CASE AND A 4.0L OR 4.7L ENGINE.

SYMPTOM/CONDITION:

Fluid seepage under the vehicle transmission/transfer case area.

NOTE: UNLESS ALREADY PRESENT, A VENT TUBE JIGGLE CAP SHOULD BE INSTALLED WHENEVER THE TRANSFER CASE UNDERGOES INTERNAL REPAIRS.

DIAGNOSIS:

If seepage is present perform the Repair Procedure.

PARTS REQUIRED:

Qty.	Part No.	Description
1	J5352955	Vent Tube Jiggle Cap
1	05018919AA	Snap Ring Access Plug
AR	04883971	Mopar Oil Resistant (RTV) Sealant
AR	05016796AA	NV247 Transfer Case Lubricant

REPAIR PROCEDURE:

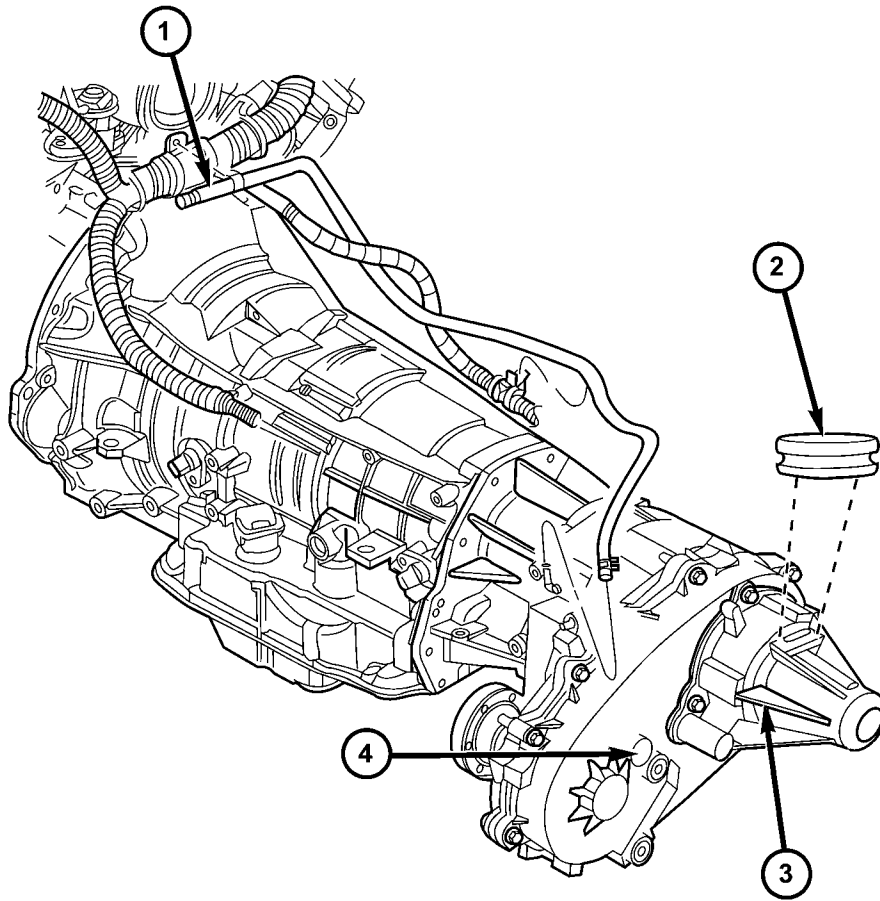
NOTE: WHEN PERFORMING THE REPAIR, USE THE PROCEDURE BELOW ALONG WITH THE APPROPRIATE SERVICE MANUAL.

1. Prior to raising vehicle, shift transfer case into neutral.
2. Open the hood.
3. Raise the vehicle on a hoist.

4. The vent hose is located above the transmission housing near the back of the engine. It is trapped under the dipstick tube mounting bracket. From below, pull the hose out from under the bracket and down to a workable area on the passenger side of the transfer case (Figure 1).
5. Cut off the end of the hose just below the vent cap housing and remove the band clamp from the cut end of the hose.
6. Insert the new Jiggle Cap vent (PN J5352955) into the end of the hose.
7. Re-align the vent hose with the dipstick tube housing and tie wrap it to the dipstick tube just below the dipstick tube mounting bracket.

If seepage has occurred between the rear retainer housing and the transfer case, proceed with step 8. If not, go to step 19.

8. Drain the transfer case.
9. Mark the propeller shaft and the rear of the transfer case rear retainer housing for alignment purposes.
10. Remove the four propeller shaft bolts.
11. Remove the propeller shaft.
12. Remove the four rear retainer housing mounting bolts.
13. Remove the rubber snap ring access plug on the top side of the rear retainer housing (Figure 1).
14. Using an appropriate tool, spread the rear bearing locating snap ring and remove the rear retainer housing.
15. Clean the mating surfaces of the rear retainer housing and the transfer case and apply new Mopar RTV Sealant (PN 04883971).
16. Spread the rear bearing locating snap ring and install the rear retainer housing on to the transfer case.
17. Torque the four rear retainer housing bolts to 33.9 Nm (25 ft. lbs.)
18. Using the alignment marks previously made, install the propeller shaft, torquing the bolts to 18.9 Nm (14 ft. lbs.)
19. Using NV247 Transfer Case Fluid (PN 05016796), check and refill the transfer case to the proper level (fluid should be able to be touched by a fingertip inserted into the fill hole on the transfer case.)(Figure 1).
20. Install the new rubber rear retainer snap ring access plug (PN 05018919AA.)
21. Lower the vehicle and close the hood.



80e3b96c

FIGURE 1 - REAR RETAINER HOUSING

1-	VENT HOSE CAP
2-	SNAP RING ACCESS PLUG
3-	REAR RETAINER HOUSING
4-	OIL FILL PLUG

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	Description	Amount
21-03-26-90	NV247 Transfer Case Seepage	0.8 Hrs.
21-03-26-91	Replace Vent and Plug	0.2 Hrs.

FAILURE CODE:

65	Leaks
----	-------