

Technical Service Bulletin

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GROUP: Transmission

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SUBJECT:

31TH Delayed Engagement

OVERVIEW:

This bulletin involves diagnosing delayed engagement and if necessary, replacing the front pump assembly with a revised part.

MODELS:

2000 (NS) Caravan/Voyager
2000 (PL) Neon
2000 (P2) Neon (Export Market)

NOTE: THIS INFORMATION APPLIES TO MODELS EQUIPPED WITH A 31TH TRANSAXLE BUILT BETWEEN JUL. 21, 1999 AND FEB. 3, 2000 (MDH 0721XX AND 0203XX). THE TRANSAXLE DATE NUMBERS INVOLVED ARE BETWEEN 3872 TO 4058 (10,000-DAY CALENDAR) AND 0010 TO 0340 (JULIAN DATE CODE).

SYMPTOM/CONDITION:

Some vehicles may exhibit intermittent delayed transaxle engagement of greater than 30 seconds on an initial cold start in -1°C (30°F) or colder temperatures. This may be due to interference between the front pump assembly and transaxle case.

DIAGNOSIS:

The following questions must be answered:

Question	Answer
1. Is fluid level correct?	Yes - Go to 2 No - Correct level and re-evaluate condition
2. Is linkage adjustment correct?	Yes - Go to 3 No - Correct adjustment and re-evaluate condition
3. Does delay occur in both Drive & Reverse?	Yes - Go to 4 No - Perform pressure tests as outlined in the applicable service manual to determine cause
4. Does delay occur in -1°C (30°F) or colder weather?	Yes - Go to 5 No - Perform pressure tests as outlined in the applicable service manual to determine cause
5. Does transaxle engage when RPM is raised?	Yes - Go to 6 No - Further testing will be required
6. Does transaxle engage properly after the initial cold delay?	Yes - Continue with the repair listed in this TSB. No - Further testing is required

If the answers to the above questions were YES, the most likely cause of the condition is due to interference between the pump housing and transaxle case. Perform the following Repair Procedure. If the answers were NO, further diagnosis will be required to determine the cause of the condition.

PARTS REQUIRED:

- 1 05016410AB Assembly, Front Pump
- 1 04269661AB Gasket, Front Pump
- AR 05013457AA Quarts, ATF +4 (Type 9602)

REPAIR PROCEDURE:

1. Using the procedures outlined in the applicable service manual, replace the front pump with p/n 05016410AB.

POLICY: Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

Labor Operation No:	21-60-05-92	NS Models.....	3.6 Hrs.
		PL/P2 Models.....	2.8 Hrs.

FAILURE CODE: P8 - New Part