SERPENTINE BELT SLIPS OFF IDLER PULLEY

TECHNICAL SERVICE BULLETIN

Reference Number(s): 07-02-99, Date of Issue: June 4, 1999

SERPENTINE BELT SLIPS OFF IDLER PULLEY

Model(s): 1996-1999 Chrysler (NS) Town & Country

1996-1999 Dodge (NS) Caravan

1996-1999 Plymouth (NS) Voyager

1996-1999 Chrysler (GS) Voyager (International Market)

Group: Cooling

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OVERVIEW

This bulletin involves replacing the bracket that the idler pulley attaches to.

NOTE: This bulletin applies to vehicles equipped with a 3.3L or 3.8L engine.

SYMPTOM/CONDITION

Loss of power steering assist and occurs when driving through deep snow or standing water. Snow or rain can enter the engine compartment from underneath the vehicle and force the serpentine belt off of the idler pulley.

DIAGNOSIS

Visually inspect the serpentine belt and idler pulley to determine if mis-alignment exists (If the serpentine belt is off the pulleys install the serpentine belt). Start the engine and let it run for one minute before checking alignment. The belt should be approximately 2mm (0.08 in.) from the inboard edge of the idler pulley (Fig. 1) when alignment is correct and this bulletin does not apply. If the belt and pulley appear as in Fig. 2, perform the REPAIR PROCEDURE.
REPAIR PROCEDURE

This repair is compatible with DaimlerChrysler's Mobile Service Program and does not require hoists or other full service facility special equipment.

1. Remove the serpentine belt from around the idler pulley by rotating the tensioner clockwise (Fig. 3).
2. Remove the purge duty cycle solenoid and wiring harness from the right side engine mount.
3. Remove the two right side engine mount insulator vertical fasteners and loosen the horizontal fastener. DO NOT remove the large nut in the center of the core of the insulator (Fig. 4).
4. Remove the load on the engine mount by carefully supporting the engine with a floor jack.
5. Remove the vertical and horizontal fasteners from the engine side bracket. Remove the engine mount assembly.
6. Remove the idler pulley from the engine mounting bracket. (Fig. 3).
7. Remove the engine mounting bracket.
8. Install a new engine mounting bracket. Torque the fasteners to 40-68 N.m (30-50 ft-lbs.).
9. Install the idler pulley to the engine mounting bracket. Torque the fastener to 40-68 N.m (30-50 ft-lbs.).
10. Properly route and position a serpentine belt onto all pulleys except the idler pulley (Use a new belt if there is any evidence of damage to the original one).
11. Rotate the belt tensioner clockwise until the belt can be installed onto the idler pulley. Slowly release the belt tensioner.
12. Install the engine mount; torque the assembly in the following order, engine mount to rail fasteners 68 N.m (50 ft-lbs.), vertical fastener 102 N.m (75 ft-lbs.), and horizontal fastener 150 N.m (111 ft-lbs.).
13. Install the purge duty cycle solenoid to the engine mount.
14. Start the vehicle and let it run for one minute then turn the engine off.
15. Verify the serpentine belt is properly aligned (Fig. 1).
16. If the serpentine belt has moved toward the outboard edge of the idler pulley, further diagnosis will be required.

**WARRANTY INFORMATION**

POLICY: Reimbursable within the provisions of the warranty.

LABOR OPERATION NO: 07-20-20-96

TIME ALLOWANCE: 0.7 Hrs.

FAILURE CODE: P8 - New Part
Fig. 2: Incorrect Belt Alignment On Idler Pulley
1. ROTATE CLOCKWISE TO RELEASE BELT TENSION
2. ACCESSORY DRIVE BELT TENSIONER
3. ENGINE MOUNTING BRACKET
4. IDLER PULLEY

Fig. 3: Removing Belt From Around Idler Pulley
1. PURGE DUTY SOLENOID MOUNT
2. DO NOT REMOVE THIS NUT
3. HORIZONTAL FASTENER
4. VERTICAL FASTENER

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Fig. 4: Right Side Engine Mount