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GROUP: Cooling

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SUBJECT:

Engine Cooling Fan Runs Constantly

OVERVIEW:

This bulletin explains the operation of the engine cooling fan.

MODELS:

2001	(RS)	Town & Country/Caravan/Voyager
2001	(RG)	Chrysler Voyager

NOTE: THIS BULLETIN APPLIES TO VEHICLES EQUIPPED WITH GASOLINE ENGINES.

DISCUSSION:

Owners may complain that the engine cooling fans running constantly, coming on as the vehicle comes to a stop, or that the cooling fans may be intermittently running under cool weather or cool engine conditions. Routine diagnostic procedures may indicate that the cooling fans are running under conditions that would normally not require fan operation.

Just before the 2001 Model Year RS launched a radiator steaming (water vapor coming out of the grill opening) condition was detected following a drive in the rain. The water vapor is a result of moisture (rain) build up on the radiator under certain specific conditions and not an indication of a vehicle problem.

To prevent owner concern over this water vapor the cooling fan strategy in the Powertrain Control Module (PCM) was revised to turn the fans on under the following conditions:

1. Ambient air temperature must be greater than -4° C. (25° F.).
2. The engine coolant temperature must be below the thermostat set point, 91° C. (195° F.).
3. Wiper duty cycle and vehicle speed has to be above a certain threshold.
4. Under these conditions the radiator fans will turn on at vehicle speeds less than 32 km/h (20 mph).

This strategy will turn off if any one of the following conditions are met:

1. The vehicle must travel more than 161 kilometers (100 miles) without using the wipers.
2. The engine coolant temperature drops below 38° C. (100° F.) indicating a 6 hour soak.
3. There are 10 minutes of accumulated time with the engine coolant above 105° C. (220° F.).

POLICY:

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