

	Transmission fluid warmer coolant control valve is sticking	INSTALL a new transmission fluid warmer coolant control valve. TEST the system for normal operation.
	System leaks	INSPECT transmission fluid cooler and transmission fluid cooler tubes for leaks. SERVICE as required.
	Internal transmission concerns	INSPECT the internal transmission components causing the overheating condition. REFER to: Diagnosis By Symptom (307-01 Automatic Transmission - 8-Speed Automatic Transmission - 8F40, 8-Speed Automatic Transmission - 8F35/8F40)
Vibration a high frequency (20-80 Hz) that is felt through the seat or gear shifter. Changes with engine speed	Transmission fluid cooler tubes grounded	CHECK the transmission fluid cooler tubes. REFER to: Transmission Fluid Cooler Tubes - Vehicles Without: Trailer Tow (307-02A Transmission Cooling - 8-Speed Automatic Transmission 8F35/8F40, Removal and Installation). REFER to: Transmission Fluid Cooler Tubes - Vehicles Without: Trailer Tow (307-02A Transmission Cooling - 8-Speed Automatic Transmission 8F35/8F40, Removal and Installation).

Check Transmission Fluid Level and Condition

NOTICE: The vehicle should not be driven if the transmission fluid level indicator shows the transmission fluid below the minimum transmission fluid level mark or internal failure could result.

If the vehicle has been operated for an extended period of time: at highway speeds, in city traffic, in hot weather or while pulling a trailer, the transmission fluid may need to cool down to obtain an accurate reading.

The transmission fluid level reading on the transmission fluid level indicator will differ depending on operating and ambient temperatures. The correct reading should be within the normal operating temperature range.

Transmission Fluid Level Check

To check the transmission fluid level,
REFER to: Transmission Fluid Level Check (307-01A Automatic Transmission - 8-Speed Automatic Transmission 8F35/8F40, General Procedures).

High Transmission Fluid Level

A transmission fluid level that is too high may cause the transmission fluid to become aerated due to the churning action of the rotating internal parts. This will cause erratic control pressure, foaming, loss of transmission fluid from the vent tube and possible transmission malfunction and/or damage. If an overfill reading is indicated,
REFER to: Transmission Fluid Level Check (307-01A Automatic Transmission - 8-Speed Automatic Transmission 8F35/8F40, General Procedures).

Low Transmission Fluid Level

A low transmission fluid level could result in poor transmission engagement, slipping, malfunction and/or damage. This could also indicate a leak in one of the transmission seals or gaskets.

Transmission Fluid Condition Check

1. Check the transmission fluid level,
REFER to: Transmission Fluid Level Check (307-01A Automatic Transmission - 8-Speed Automatic Transmission 8F35/8F40, General Procedures).
2. Hold the transmission fluid level indicator over a white facial tissue and allow the transmission fluid to drip onto the facial tissue and examine the stain.
3. If evidence of solid material is found, the transmission fluid pan should be removed for further inspection.