



# Technical Service Information

## GM ALLISON 1000/2000 SETTING CODE P0735 ON HIGHWAY

**COMPLAINT:** Before or after overhaul, a GM vehicle equipped with the Allison 1000/2000 transmission exhibits a complaint of a neutralizing condition while driving at highway speeds. Code retrieval indicates code P0735 (*5th gear ratio error*) is stored.

**CAUSE:** One cause may be severe damage inside the transfer case causing the transfer case to go into neutral which causes the computer to store code P0735. This severe damage in the transfer case is caused by a loss of fluid inside the transfer case itself. The reason for the loss of fluid is overheating. Overheating to the point the fluid vaporizes and escapes through the vent system.

Mike Weinberg from "Rockland Standard Gear" covered this problem very well in the March, 2007 issue of "Transmission Digest". At this time Mike and his Staff are recommending to remove the ATF from the transfer case and replace it with 5w-30 motor oil, and adding an extra quart to the level after it is filled by removing the speed sensor and adding the extra quart there. In addition, Rockland Standard Gear is recommending the fluid level be checked every 5,000 miles, and changed every 10,000 miles. For additional information refer to the March, 2007 issue of Transmission Digest.

**CORRECTION:** Repair or replace the transfer case, fill with 5w-30 motor oil, adding 1 extra quart, then rechecking levels at 5,000 mile intervals, and changing the fluid at 10,000 mile intervals.

*Special thanks to Mike Weinberg of Rockland Standard Gear for the contribution of this article.*