



# Service Bulletin

File in Section: -

Bulletin No.: PIP4379L

Date: June, 2014

## PRELIMINARY INFORMATION

**Subject:** Delayed Or No Drive And Or Delayed Or No Reverse With DTCs Range Inhibit

**Models:** 2007-2015 Chevrolet Silverado  
2003-2010 Chevrolet Kodiak  
2001-2007 Chevrolet Silverado Classic  
2007-2015 GMC Sierra  
2003-2010 GMC Topkick  
2001-2007 GMC Sierra Classic  
Equipped with The Allison LCT1000 Transmission RPO M74 or MW7

**This PI was superseded to update model years. Please discard PIP4379K.**

The following diagnosis might be helpful if the vehicle exhibits the symptom(s) described in this PI.

### Condition/Concern

Customer may comment on a delayed or no engagement into drive and or delayed or no engagement into reverse and or a range inhibit with any one of or a combination of the following DTC's P0701, P0731, P0732, P0733, P0734, P0736, P0751, P0756, P0761, P0776, P0843, P0848, P0873, P0877, P0894 or P2723. This condition may be more pronounced in cold climates during a cold start.

### Recommendation/Instructions

P0701, P0731, P0732, P0733, P0734, P0736, P0751, P0756, P0761, P0776, P0843, P0848, P0873, P0877, P0894 or P2723 could possibly indicate no or excessively low pump pressure as a result of a no prime or loss of prime condition within the transmission pump. When any of the above DTC's are accompanied by a P0701 begin troubleshooting with the SI for P0701 first. Be sure to follow all diagnostic steps. With any of the above listed DTC's follow the SI fluid checking procedure to PROPERLY check the transmission fluid level using the Hot Check Procedure. Low fluid level may cause one of or a combination of the listed DTC's to set, particularly during a cold ambient and cold vehicle start.

**Note:** Ensure the fluid level is at the top of the HOT band when the transmission fluid temperature is 175°F. Refer to SI document 2408059 for the proper fluid level checking procedure.

DTC P0701, P0731, P0732, P0733, P0734, P0736, P0751, P0756, P0761, P0776, P0843, P0848, P0873, P0877, P0894 or P2723 can set by the following: fluid service/filter change, transmission service involving removing the pan, low fluid level caused by leaks, or after long periods of storage.

**Note:** : If the fluid level has been properly checked using the HOT check procedure listed in SI document 2408059 and any of the DTCs reset during a cold start inspect the internal suction filter for possible cracks.

**Note:** If no other concerns are found inspect for a stuck lube regulator valve (item 13 in document 2384492) in the pump cover due to debris.

DTC P0894 diagnostics will run during NLT (neutral lock turbine). During NLT the transmission applies 3, 5 and Reverse clutch and 2, 6 clutch, in conjunction with Low & Reverse clutch already applied to lock turbine shaft. This feature is only active in combination when engine elevated idle is active to shorten engine and cab warm up time. This feature is initiated if transmission sump temperature is greater than -25°C (-13°F) and the engine coolant temperature (ECT) is greater than -40°C (-40°F). If the transmission sump temperature is greater than 60°C (140°F) or the engine coolant temperature is greater than 60°C (140°F), the NLT feature will terminate.

**Important:** Replacement of the TCM will not likely correct any of the above DTC's or low main line pressure. Please follow this diagnostic or repair process thoroughly and complete each step. If the condition exhibited is resolved without completing every step, the remaining steps do not need to be performed.