



# Service Bulletin

## PRELIMINARY INFORMATION

**Subject:** TAC 2ML70 (Two-Mode Hybrid) Transmission Restriction Process

**Models:** 2009-2013 Cadillac Escalade  
2009-2013 Chevrolet Silverado  
2008-2013 Chevrolet Tahoe  
2009-2013 GMC Sierra  
2008-2013 GMC Yukon  
Equipped With a 2LM70 Transmission RPO M99

*This PI was superseded to update Parts and Warranty Information. Please discard PIP4600D.*

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

### Condition/Concern

Effective 11/16/07 the 2ML70 Transmission Assembly will be placed on restriction through the GM TAC (Technical Assistance Center). Please follow the recommendations below prior to contacting TAC to verify that proper diagnosis has been performed.

**Note:** The 2ML70 Transmission is considered serviceable for the majority of all service repairs. Dealers should do a repair vs. replace cost comparison. If transmission assembly replacement is more cost-effective, the technician should contact TAC for further recommendations (proceed to step 4 below).

**Caution:** Always perform the High Voltage Disabling procedure prior to servicing any High Voltage component or connection. Personal Protection Equipment (PPE) and proper procedures must be followed. The High Voltage Disabling procedure will perform the following tasks: Identify how to disable high voltage. Identify how to test for the presence of high voltage. Identify conditions under which high voltage is always present and personal protection equipment (PPE) and proper procedures must be followed.

**Important:** If vehicle damage does not allow access to the high voltage manual disconnect, disconnect the 12V battery and remove the damaged portion of the vehicle until such time as the HV manual disconnect can be removed and the High Voltage Disabling procedure can be completed.

1. Perform the high voltage disable procedure at the drive motor generator control module assembly or cable connections. Refer to High Voltage Disabling in SI.
2. Perform the high voltage enable procedure when the transmission is installed and ready to be test driven.

### Recommendation/Instructions

**Note:** If the transmission is being ordered for a non warrantable concern (i.e. collision, theft, fire, etc) proceed directly to step 4 below (Valid VIN and proof of ownership required). For all Warrantable concerns, proceed with step 1 below.

1. If DTCs are present and the S.I. procedure gives direction to remove internal components; stop, capture snapshot stored data, and, if possible, test drive the vehicle with the Tech2 installed and capture a snap shot of the transmission data when the condition occurs. See latest version of TSB #07-07-30-010 for correct snap shot data collection. Save snapshot as it may be requested for later use.
2. If DTCs are not present, refer to Symptoms Automatic Transmission in SI.
3. If any diagnostic procedure gives direction to remove internal components, repair in the most cost effective manner. If replacement of the entire assembly is required, proceed to Step 4. If the customer is requesting transmission replacement, contact your DVM for approval.
4. Contact TAC (Technical Assistance Center) to review case details. Please have as much stored DTC and snapshot information as possible prior to contacting TAC.
5. After reviewing the diagnosis, if transmission replacement is needed, TAC will arrange for ordering of a new assembly.

6. For return of transmission core follow shipping information below.
7. After installation, perform sequential programming
  - The replacement transmission is shipped without a calibration and MUST be programmed after it is installed into the vehicle.
  - Service Fast Learn Adapts are NOT required after transmission installation.
  - The replacement transmission will be shipped partially filled with DEXRON®-VI ATF. Check and add transmission fluid to the correct level as instructed in Transmission Fluid Checking Procedure in SI before releasing the vehicle. Low or high fluid levels could result in erratic operation and internal transmission damage. Use ONLY DEXRON®-VI ATF as use of any ATF other than DEXRON®-VI may result in transmission damage.
8. Guidelines for honoring replacement requests under this program are being strictly enforced.

### WPC REQUEST.

The WPC will issue a regular Part Return Request when the dealership's warranty claim is paid. Return the transmission following WPC procedures outlined in the latest version of Bulletin #99-00-89-019.

Failure to return the transmission may result in a debit. Do not ship a transmission to the WPC without an official WPC request.

### SHIPPING PREPARATION

1. Remove the drain plug and drain the transmission fluid. Reinstall the drain plug.
2. Make sure transmission is fully assembled.
3. Remove the transmission from the vehicle as outlined in Transmission Replacement in SI.
4. Tighten any fasteners that were loosened or removed during transmission removal to the original torque specification.
5. Remove the torque dampener holding strap and any plastic shipping plugs or covers from the new unit and install them on the transmission to be returned
6. If the transmission leaks, mark the leak area directly on the transmission with a permanent marker.
7. Write the TAC case reference number on the repair order.
8. Write the TAC case reference number on the repair order.
9. Place the transmission core into the shipping container and attach the completed return shipping tag to the transmission.

### SHIPPING INSTRUCTIONS

1. Place a copy of the WPC request, repair order with technician comments and the completed TAC Part Restriction Transmission Template. The bill of lading and customs papers (for cross border shipments) should also be inserted into the plastic envelope. Remove the original shipping label and attach the plastic envelope with the return shipping label on it to the container.
2. Label the outside of the shipping container with the WPC request number and the TAC case reference number. Refer to the latest version of Corporate Bulletin Number 99-00-89-019 for detailed shipping information.

### Parts Information

Model year	Part Number	Description	Qty
2008	19125681	Transmission Assembly 2wd (also requires connector part number 24259588.)	1
2008	19125682	Transmission Assembly 4wd (also requires connector part number 24259588.)	1
2009	19125695	Transmission Assembly 2wd (also requires connector part number 24259588.)	1
2009	19181163	Transmission Assembly 4wd (also requires connector part number 24259588.)	1
2009	24262526	Transmission Assembly 4wd (also requires connector part number 24259588.)	1
2009	19125696	Transmission Assembly 4wd	1
2010-2013	24256655	Transmission assembly 2wd	1
2010-2013	19125697	Transmission Assembly 2wd	1

2010-2013	19125699	Transmission Assembly 4wd	1
2010-2013	24256656	Transmission Assembly 4wd	

excel sheet

## Warranty Information

For vehicles repaired under warranty use:

Labor Operation	Description	Labor Time
8464670	Transmission Replacement	Use Published Labor Operation Time

**Note:** Only proceed with diagnosing/ordering parts if you are part of the Hybrid team. Otherwise set a face case and warm transfer the caller to the Hybrid team.

### Hybrid Team TAC Consultants:

WARRANTABLE AND CUSTOMER PAY ORDERING INSTRUCTIONS:

1. Record the part number being ordered in the restricted part number field of the SR.
2. Record the P.I. # in the recommended bulletin field on the SR.
3. Make sure all diagnostics are completed fully.
4. Create a "TAC Part Request" activity following the latest version of the activities quick reference guide. Mark the activity with OVN unless part is being shipped customer pay (This means part will ship overnight. All warranty parts are required to be shipped OVN unless dealer / customer indicate otherwise).

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.

GM bulletins are intended for use by professional technicians, NOT a "do-it-yourselfer". They are written to inform these technicians of conditions that may occur on some vehicles, or to provide information that could assist in the proper service of a vehicle. Properly trained technicians have the equipment, tools, safety instructions, and know-how to do a job properly and safely. If a condition is described, DO NOT assume that the bulletin applies to your vehicle, or that your vehicle will have that condition. See your GM dealer for information on whether your vehicle may benefit from the information.



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