GM Bulletin No.: 15717
Date: October 2015

Service Bulletin

SERVICE UPDATE

SUBJECT: Service Update for Inventory and Customer Vehicles Emitting White Smoke Expires with Base Warranty

MODELS: 2016 Cadillac ATS-V Equipped with Manual Transmission (MG9)

This service update includes vehicles in dealer inventory and customer vehicles that return to the dealership for the first scheduled oil change. This bulletin will expire at the end of the involved vehicle's New Vehicle Limited Warranty period.

PURPOSE

This bulletin provides a service procedure to remove the silicone contaminated transmission fluid on **certain** 2016 model year Cadillac ATS-V vehicles equipped manual transmission (RPO MG9). These vehicles, may have a condition in which the transmission fluid foams and spills out onto the exhaust pipe causing white smoke to be emitted from the underside of the vehicle when traveling at a very high rate of speed.

This service procedure should be completed as soon as the odometer reads at least 5,000 miles (8,000 km) on involved vehicles currently in dealer inventory and customer vehicles that return to the dealer for the first scheduled oil change during the New Vehicle Limited Warranty coverage period.

VEHICLES INVOLVED

All involved vehicles are identified by VIN in the Global Warranty Management System – Investigate Vehicle History Application. Dealership technicians should always check this site to confirm vehicle involvement prior to beginning any required inspections and/or repairs. It is important to routinely use this tool to verify eligibility because not all similar vehicles may be involved regardless of description or option content.

Additionally, a list of involved vehicles currently in dealer inventory can be found in GlobalConnect, under Departments, Service, Field Action Inventory Reports (US) or attached to the GlobalConnect message (Canada) used to release this bulletin. Customer vehicles that return for service, the first scheduled oil change but after the odometer reads 5,000 miles, and are still covered under the vehicle's base warranty should also be checked for vehicle eligibility.

PART INFORMATION

Parts required to complete this service update are to be obtained from General Motors Customer Care and Aftersales (GMCCA). Please refer to your "involved vehicles listing" before ordering parts. This part will be on Order Writing control initially and all DRO's (Daily Replenishment Orders) will cancel. Dealers can place orders CSO (Customer Special Order). In emergency situations a dealer should place a SPAC case and the orders will be processed in the order received.

Part Number	Description	Quantity/Vehicle
88861800 88861801	GM Manual Transmission Fluid (US) GM Manual Transmission Fluid (Canada)	6 6

SERVICE PROCEDURE

Note: This procedure should be performed at the first oil change, however the vehicle must have been driven a minimum of 5000 miles (8000 km). If the vehicle has less than 5000 miles (8000 km), this procedure should not be performed at this time.

Note: GM Manual Transmission Fluid (88861800 US/88861801 Canada) is the required fluid for this vehicle, only Dexron VI is acceptable to be used to flush the cooler lines and must be purged out with air after flushing.

1. Raise and support the vehicle. Refer to *Lifting and Jacking the Vehicle* in SI.
2. Place a drain pan under the transmission.
3. Support the transmission.
4. Remove the Transmission Rear Mount. Refer to *Transmission Rear Mount Replacement* in SI.

Note: DO NOT drain the transmission through the temperature sensor.

5. Remove the transmission drain plug.
6. Fully drain the transmission.
7. DO NOT install the drain plug and leave the drain pan in place.
8. Verify the DT-45096 Transmission Oil Cooling System Flush and Flow Test Tool is in the off position and place the function switch to IDLE.
9. Connect DT-45096 flow test tool to the vehicle 12-volt DC power source by connecting the red battery clip to the positive (+) battery post on the vehicle and connect the negative (−) lead to a known good chassis ground.
10. Turn the main power switch to the ON position.

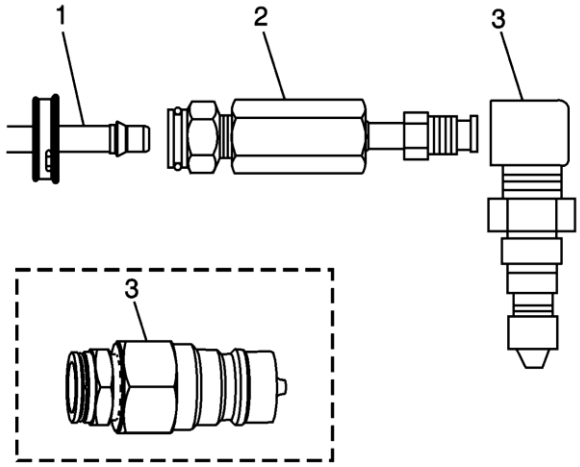
Caution: DO NOT overfill the supply vessel. Damage to the unit may result. To verify the fluid level, view the LCD screen display while filling the unit, to ensure the fluid level does not exceed 30 L (32 qt). Use Dexron VI.

11. Fill the supply tank with the appropriate GM automatic transmission fluid through the fill port.
12. Install and tighten the fill cap.

13. Connect a shop air supply hose to the quick-disconnect on the rear panel marked SUPPLY AIR.

14. Disconnect the transmission cooler feed line which is attached to the clutch housing. Passenger side of car. Refer to *Transmission Fluid Cooler Hose/Pipe Quick-Connect Fitting Disconnection and Connection* in SI.

15. Remove the transmission fluid cooler inlet and outlet pipe clip bolt from engine oil pan in order to relocate the fitting to allow a connection to the cooler line. Refer to *Transmission Fluid Cooler Inlet and Outlet Pipe Replacement* in SI.



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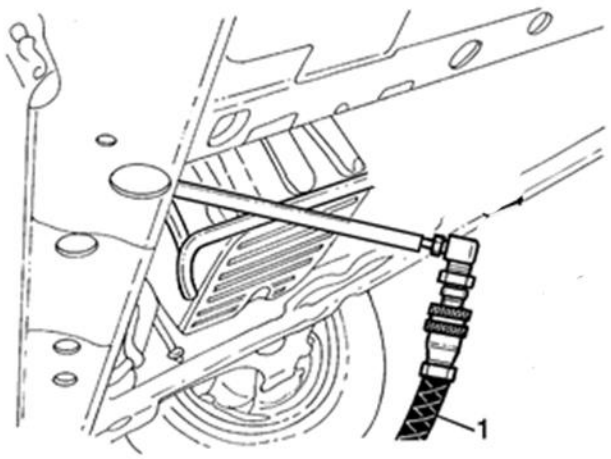
16. Connect the DT-45096 flow test tool adapters (3) and J-35944-200 / J-35944-200A adapter (2) to the vehicle transmission oil cooler feed line. Do not disconnect the supply line to the transmission, i.e. connector on the driver side of the vehicle which goes into the main housing.



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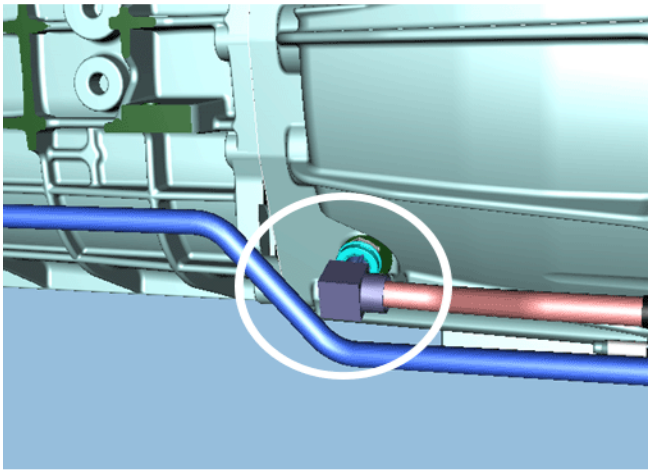

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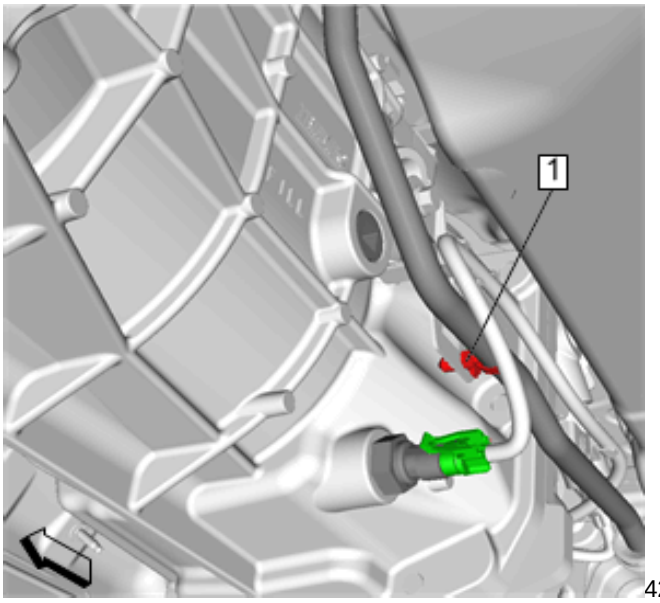
17. Connect the black supply hose (1) to the feed line. This will be the connector that is coming out of the clutch housing, i.e. connector on the passenger side of the vehicle. Do not connect the clear waste hose to the supply line of the transmission. Fluid is going to be flushed back into the transmission and then exit out of the drain plug. This is the forward flow direction.

Note: If the flow rate is less than 0.5 gpm, the LCD displays an error message. Refer to the Troubleshooting section of the operation manual.

Caution: Fluid will be coming out of the transmission drain plug during the flush.

18. Turn the main function switch to the FLOW position and allow the oil to flow. Monitor the screen for the amount of fluid in the tank, ensuring that a minimum of 3 quarts of fluid has flown through the lines. (The level on the screen should decrement by 3 quarts.)
19. Turn the main function switch to the IDLE position and allow the supply vessel pressure to dissipate.
20. Wait until the flushed fluid fully drains from the transmission.
21. Disconnect the DT-45096 flow test tool adapters from the cooler feed line.
22. Affix regulated shop air (30 psi) to the cooler line and gently purge the lines of any fluid.
23. Wait until the flushed fluid fully drains from the transmission.

24. Reconnect the transmission fluid cooler inlet and outlet pipe clip bolt to engine oil pan and torque to 22 Nm (16 lb ft).
25. Reconnect the cooler line to the transmission. Refer to *Transmission Fluid Cooler Hose/Pipe Quick-Connect Fitting Disconnection and Connection* in SI.
26. Reinstall the transmission drain plug and torque to 27 Nm (20ft-lbs) and apply Loctite #516.
27. Install the Transmission Rear Mount. Refer to Transmission Rear Mount Replacement in SI.



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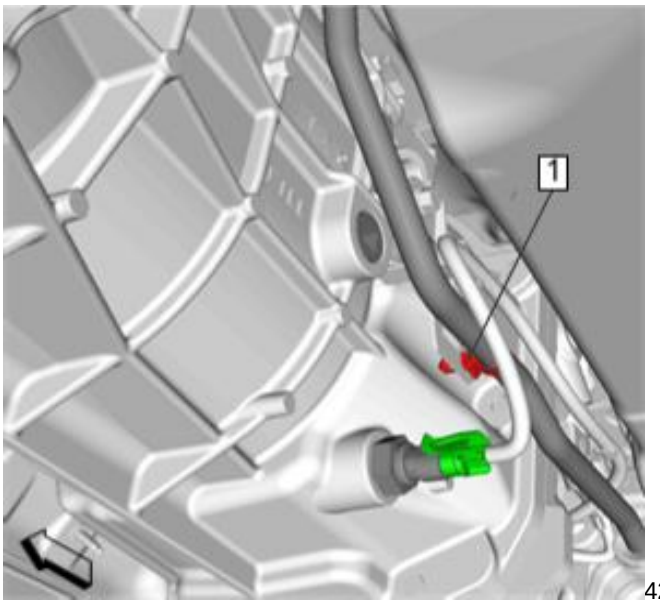
28. Disconnect the clip retaining the cooler pipe to the transmission bracket.
29. Reposition the cooler pipe to allow access to the fill plug.
30. Remove the transmission fluid fill plug.
31. Fill the transmission until the fluid is level with the bottom of the fill plug using GM Manual Transmission Fluid (88861800 US/88861801 Canada).
32. Install the transmission fill plug and torque to 27 Nm (20 lb ft).

Note: Inspect the clip for proper retention on the cooler line to the bracket. Replace the clip as necessary.

33. Reconnect the clip retaining the cooler pipe to the transmission bracket.
34. Run the engine in Neutral, ensuring the clutch pedal is not depressed, for two minutes to allow the fluid to recirculate. Fluid level will drop in the transmission as the cooler lines fill.



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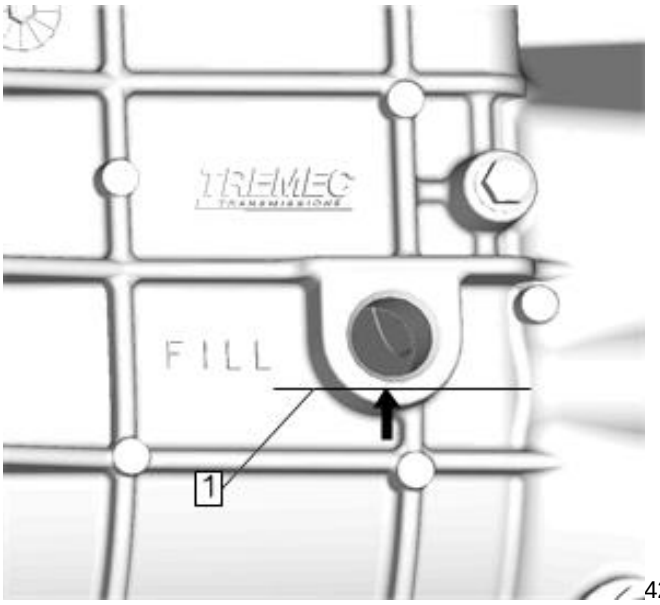
35. Disconnect the clip (1) retaining the cooler pipe to the transmission bracket.
36. Reposition the cooler pipe to allow access to the fill plug.
37. Remove the transmission fill plug.

Note: Transmission fluid level setting must be followed exactly as written or the transmission may be overfilled or under filled.

Note: Approximately 1.5 quarts of fluid should be added at this step. If significantly less fluid is added before the transmission is full the internal transmission pump was not properly primed during step 34 and lines did not fill correctly. Take the vehicle on a short test drive in order to ensure the pump in the transmission is primed and the fluid has filled the lines correctly. Avoid performance driving since the transmission is under filled.



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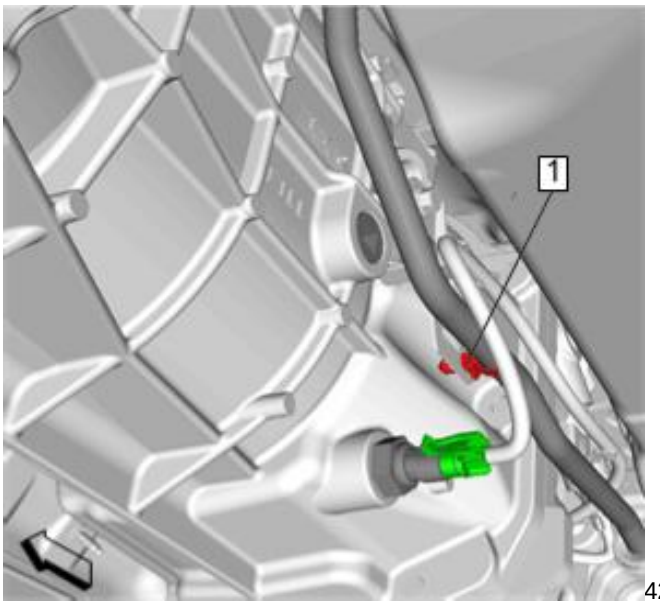
38. Transmission fluid level MUST be 3.2 mm (1/8 inch) below (1) the fill plug. This can be done by one of the following two methods:

- Bend mechanics wire to 3.2 mm (1/8 inch) to check fluid level. Add or remove fluid as necessary.
- Fill transmission until level with the bottom of the fill plug hole, then remove 240 ml (8 ounces) of fluid.

39. Install the transmission fill plug and torque to 27 Nm (20 lb ft).



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40. Connect the clip (1) retaining the cooler pipe to the transmission bracket.
41. Lower the vehicle.
42. Road test the vehicle for 2-3 miles performing right hand and left hand turns of medium speed and allow the engine to reach 4000 RPMs at times.
43. Raise the vehicle and check the transmission fluid level and add if necessary.
44. Lower the vehicle.

WARRANTY TRANSACTION INFORMATION

Submit a transaction using the table below. All transactions should be submitted as a ZFAT transaction type, unless noted otherwise.

Labor Code	Description	Labor Time	Net Item
9101818	Drain, Flush and Fill Manual Transmission Fluid	1.0	N/A

DEALER PROGRAM RESPONSIBILITY

Whenever a vehicle subject to this service update enters your vehicle inventory, or is in your facility for service in the future, and the vehicle is still covered under the New Vehicle Limited Warranty, you must take the steps necessary to be sure the service update correction has been made before selling or releasing the vehicle.