



**NUMBER:** 07-005-12

**GROUP:** Cooling

**DATE:** October 02, 2012

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**SUBJECT:**

Low Engine Coolant Concentration Levels

**OVERVIEW:**

This bulletin involves inspecting the coolant antifreeze protection level and if necessary, draining the engine coolant and refilling with the appropriate antifreeze concentration levels.

**MODELS:**

2013                      JC                                      Journey

**NOTE:** This bulletin applies to vehicle equipped with the 3.6L engine (Sales Code ERB) built between August 14, 2012 (MDH 0814XX) and August 15, 2012 (MDH 0815XX).

**SYMPTOM/CONDITION:**

A small number of vehicles were built with low engine coolant concentration levels in the engine cooling system. Engine coolant with low concentration levels of antifreeze may have a tendency to freeze prematurely in cold climates.

**DIAGNOSIS:**

If a customer's VIN is listed in VIP or your RRT VIN list, perform the repair. For all other customers that describe the symptom/condition, perform the Repair Procedure.

**PARTS REQUIRED:**

Qty.	Part No.	Description
AR (2)	68163848AA	Antifreeze, Coolant, US OAT (US Only)
AR (2)	68175336AA	Antifreeze, Coolant, Mexico OAT (Mexico Only)
AR (2)	68175338AA	Antifreeze, Coolant, Canada OAT (Canada Only)

**REPAIR PROCEDURE:**

**CAUTION:** Chrysler Corporation LLC. has released a new engine coolant for the 2013 model year Journey. This new coolant is an Organic Additive Technology (OAT). Coolants of different technologies are not compatible nor interchangeable (OAT, HOAT or IAT). If these coolants are mixed, accelerated corrosion within the engine and cooling system could result. Use only engine coolants specified in this bulletin for 2013 Journey cooling systems.

- Carefully remove the radiator cap. Use refractometer Tool 8286 to verify proper coolant concentration levels. The coolant concentration level should be at a mix of 50% ethylene-glycol and 50% distilled water to obtain a freeze point of -37°C (-35°F). Record the concentration level reading.
- Was the coolant concentration at a level that would protect the engine to a freeze point of -37°C (-35°F)?
  - YES>>>coolant concentration levels are within normal operating range and do not need any adjustment.
  - NO>>>proceed to the next step.
- Drain the cooling system. Refer to DealerCONNECT>Service>TechCONNECT>Service Info>07 - Cooling>Standard Procedure>DRAINING for additional information.

**NOTE:** Approximately five to six liters (5.3 - 6.1 quarts) will drain from the cooling system. The entire cooling system holds 13.1 liters (14.5 quarts). The majority of the coolant will remain in the engine.

- Using the information collected in step 1, adjust the cooling system using the applicable listed OAT coolant to achieve a mix of 50% water and 50% OAT coolant to achieve a freeze point of -37°C (-35°F). Make sure that all air is bled out of the cooling system. Refer to DealerCONNECT>Service>TechCONNECT>Service Info>07 - Cooling>Standard Procedure>STANDARD PROCEDURE - COOLANT AIR EVACUATION for additional information.

**NOTE:** It is imperative that all of the air be removed from the engine cooling system or engine damage may result.

- Check the coolant concentration levels using refractometer Tool 8286 after running the engine for 15 minutes at 1500 RPM to assure the proper mixing of the coolant inside the engine. Adjust the cooling system as necessary to achieve a mix of 50% water and 50% OAT coolant to achieve a freeze point of -37°C (-35°F).

6. If additional coolant is required, repeat the process until the proper cooling system concentration level is achieved in the coolant system.

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

Labor Operation No:	Description	Amount
07000192	Coolant, Engine - Inspect (Skill Level = D; Training Level = 1)	0.2 Hrs.
07000193	Coolant, Engine - Inspect and Replace (Skill Level = D; Training Level = 1)	0.8 Hrs.

**FAILURE CODE:**

ZZ	Service Action
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