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2008 Jeep CHEROKEE Service Manual

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YOUR CURRENT VEHICLE

High Voltage (HV) Coolant Heater

HIGH VOLTAGE (HV) COOLANT HEATER

REMOVAL

WARNING

Before performing any diagnostic or service procedure, you must thoroughly read and follow all applicable high voltage safety procedures. You must perform the high voltage power down procedures.

Loss of Isolation (LOI) must be performed before high voltage power up in cases where service has been performed on a high-voltage component or when diagnosing a LOI condition.

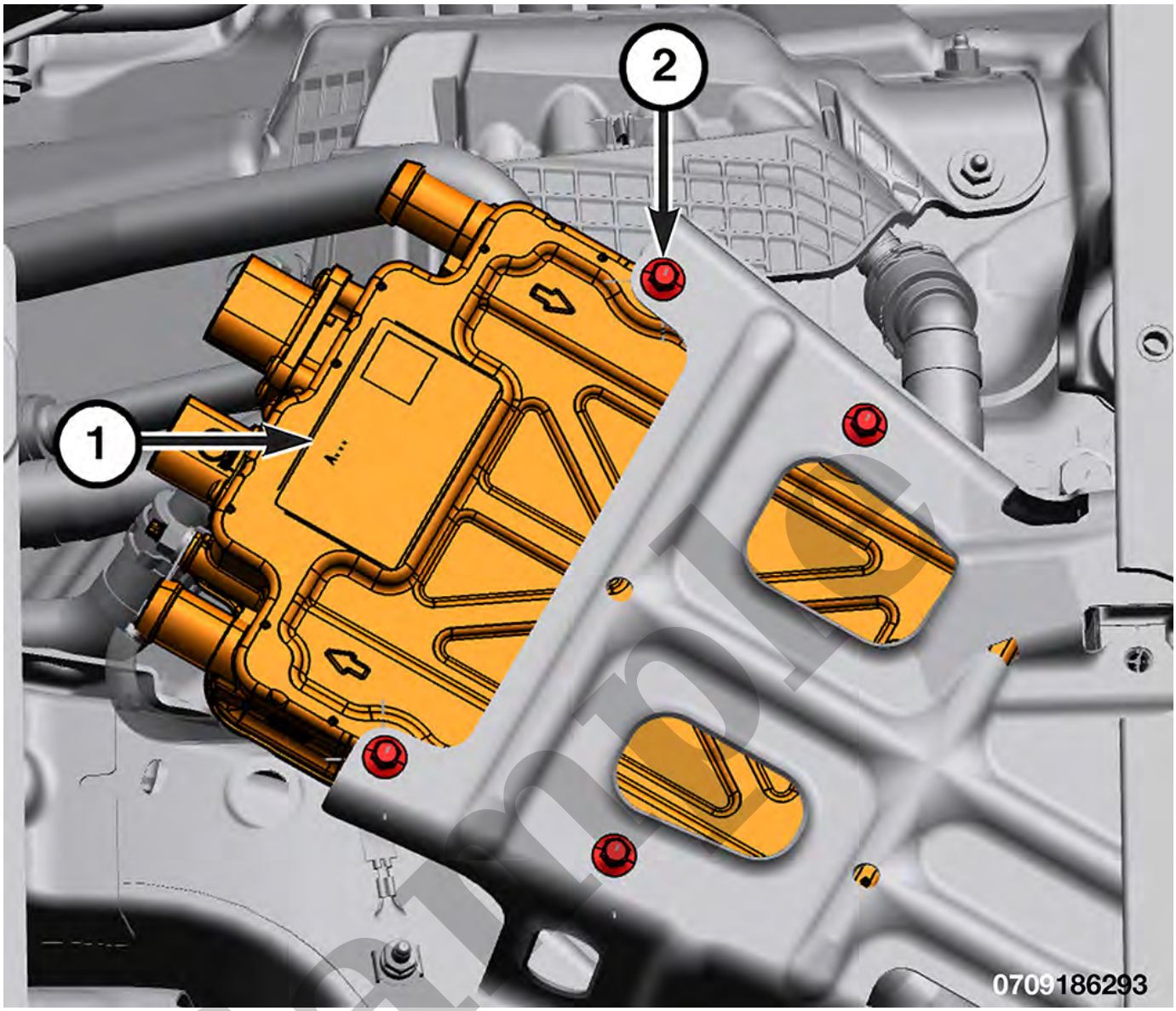
Be sure to use the proper safety equipment when working on any high voltage system or component. Failure to do so may result in serious or fatal injury.

Wait a minimum of two minutes after performing the high voltage battery disconnect procedure before attempting to access the high voltage system. Failure to do so may result in serious or fatal injury.

CAUTION

Do not allow coolant to come in contact with any high voltage component electrical connections. Engine coolant will create a conductive path and cannot be effectively removed resulting in a loss of isolation and replacement of the contaminated high voltage component.

1. Power down the high voltage system (Refer to Electrified Powertrain System/High Voltage Battery/Standard Procedure).
2. Drain the engine cooling system (Refer to Engine/Cooling Systems/Engine Cooling/Standard Procedure) (Refer To List 1).
3. Remove the stabilizer bar skid plate (Refer to Frame and Bumpers/Under Body Protection/PLATE, Skid, Front/Removal and Installation)(Refer To List 2).



1 - HV Coolant Heater
2 - HV Coolant Heater Bolts

11. Remove the HV coolant heater bolts and the HV coolant heater from the bracket.

INSTALLATION

Follow the removal procedure in reverse for general reassembly of the components on the vehicle. The steps listed below are calling out specific procedures that should be followed during installation.

- Fill the engine cooling system (Refer to Engine/Cooling Systems/Engine Cooling/Standard Procedure) (Refer To List 1).
- Power up the high voltage system (Refer to Electrified Powertrain System/High Voltage Battery/Standard Procedure).

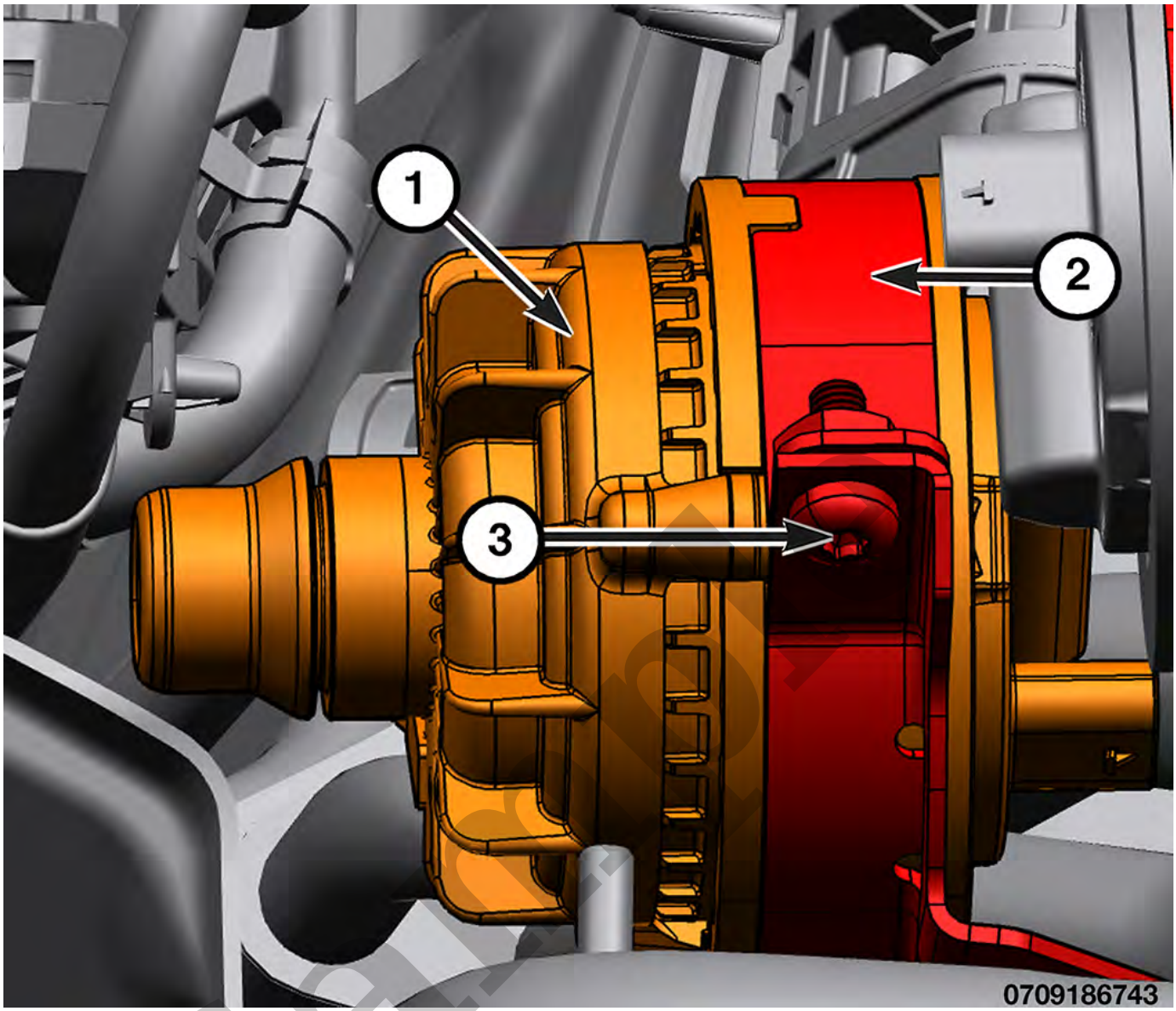
- 09 - Engine, 2.0L / Cooling System / Engine Cooling / Standard Procedure
- 09 - Engine, 3.6L / Engine Cooling / Standard Procedure
- 09 - Engine, 5.7L / Engine Cooling / Standard Procedure

List 2

- 13 - Frame and Bumpers / Under Body Protection / PLATE, Skid / Removal and Installation
- 13 - Frame and Bumpers / Under Body Protection / PLATE, Stiffening / Removal and Installation

List 3

- 09 - Engine, 2.0L / Cooling System / Engine Cooling / Diagnosis and Testing
- 09 - Engine, 3.6L / Engine Cooling / Diagnosis and Testing
- 09 - Engine, 5.7L / Engine Cooling / Diagnosis and Testing



1 - High Temperature Auxiliary Coolant Pump Bracket
2 - High Temperature Auxiliary Coolant Pump
3 - High Temperature Auxiliary Coolant Pump Screw

7. Remove the high temperature auxiliary coolant pump screw and the high temperature auxiliary coolant pump bracket.

8. Remove the low temperature coolant pump from the coolant pump bracket.

INSTALLATION

Follow the removal procedure in reverse for general reassembly of the components on the vehicle. The steps listed below are calling out specific procedures that should be followed during installation.

- 09 - Engine, 2.0L / Cooling System / Engine Cooling / Standard Procedure
- 09 - Engine, 3.6L / Engine Cooling / Standard Procedure
- 09 - Engine, 5.7L / Engine Cooling / Standard Procedure

List 2

- 13 - Frame and Bumpers / Under Body Protection / PLATE, Skid / Removal and Installation
- 13 - Frame and Bumpers / Under Body Protection / PLATE, Stiffening / Removal and Installation

List 3

- 09 - Engine, 2.0L / Cooling System / Engine Cooling / Diagnosis and Testing
- 09 - Engine, 3.6L / Engine Cooling / Diagnosis and Testing
- 09 - Engine, 5.7L / Engine Cooling / Diagnosis and Testing

1 - O-Ring

6. Inspect the temperature sensor O-ring for damage.

INSTALLATION

Follow the removal procedure in reverse for general reassembly of the components on the vehicle. The steps listed below are calling out specific procedures that should be followed during installation.

- Fill the cooling system (Refer to Engine/Cooling Systems/Engine Cooling/Standard Procedure)(Refer To List 1).
- Check the cooling system for leaks (Refer to Engine/Cooling Systems/Engine Cooling/Diagnosis and Testing)(Refer To List 2).

Refer To List:

List 1

- 09 - Engine, 2.0L / Cooling System / Engine Cooling / Standard Procedure
- 09 - Engine, 3.6L / Engine Cooling / Standard Procedure
- 09 - Engine, 5.7L / Engine Cooling / Standard Procedure

List 2

- 09 - Engine, 2.0L / Cooling System / Engine Cooling / Diagnosis and Testing
- 09 - Engine, 3.6L / Engine Cooling / Diagnosis and Testing
- 09 - Engine, 5.7L / Engine Cooling / Diagnosis and Testing

1 - O-Ring

5. Inspect the temperature sensor O-ring for damage.

INSTALLATION

Follow the removal procedure in reverse for general reassembly of the components on the vehicle. The steps listed below are calling out specific procedures that should be followed during installation.

- Fill the engine cooling system (Refer to Engine/Cooling Systems/Engine Cooling/Standard Procedure) (Refer To List 1).
- Check the engine cooling system for leaks (Refer to Engine/Cooling Systems/Engine Cooling/Diagnosis and Testing)(Refer To List 2).

Refer To List:

List 1

- 09 - Engine, 2.0L / Cooling System / Engine Cooling / Standard Procedure
- 09 - Engine, 3.6L / Engine Cooling / Standard Procedure
- 09 - Engine, 5.7L / Engine Cooling / Standard Procedure

List 2

- 09 - Engine, 2.0L / Cooling System / Engine Cooling / Diagnosis and Testing
- 09 - Engine, 3.6L / Engine Cooling / Diagnosis and Testing
- 09 - Engine, 5.7L / Engine Cooling / Diagnosis and Testing

- If the coolant is **found to be contaminated** after a visual inspection, discard the coolant.
- If the coolant is **found to be clear of contamination** after a visual inspection the test the coolant concentration.

Refractometer

2. Using a

Refractometer

Using Air Evacuation Tool

USING AIR EVACUATION TOOL

WARNING

ANTIFREEZE IS AN ETHYLENE GLYCOL BASE COOLANT AND IS HARMFUL IF SWALLOWED OR INHALED. IF SWALLOWED, DRINK TWO GLASSES OF WATER AND INDUCE VOMITING. IF INHALED, MOVE TO FRESH AIR AREA. SEEK MEDICAL ATTENTION IMMEDIATELY. DO NOT STORE IN OPEN OR UNMARKED CONTAINERS. WASH SKIN AND CLOTHING THOROUGHLY AFTER COMING IN CONTACT WITH ETHYLENE GLYCOL. KEEP OUT OF REACH OF CHILDREN. DISPOSE OF GLYCOL BASED COOLANT PROPERLY. CONTACT YOUR DEALER OR GOVERNMENT AGENCY FOR LOCATION OF COLLECTION CENTER IN YOUR AREA. DO NOT OPEN A COOLING SYSTEM WHEN THE ENGINE IS AT OPERATING TEMPERATURE OR HOT UNDER PRESSURE; PERSONAL INJURY CAN RESULT. AVOID RADIATOR COOLING FAN WHEN ENGINE COMPARTMENT RELATED SERVICE IS PERFORMED; PERSONAL INJURY CAN RESULT.

WARNING

WEAR APPROPRIATE EYE AND HAND PROTECTION WHEN PERFORMING THIS PROCEDURE.

CAUTION

Failure to purge air from the cooling system can result in an overheating condition and severe engine damage.

NOTE

The preferred method to remove air from the cooling system is to use

Tool, UView Airlift™ Cooling System Refill