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GROUP: Differential & Driveline

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SUBJECT:

Fluid Weepage Past Rear Axle Vent Line Jiggle Cap

OVERVIEW:

This bulletin involves the installation of a fluid accumulator canister to the rear axle vent line.

MODELS:

1999 - 2004 (WJ) Grand Cherokee (Domestic and International Markets)

2001 - 2004 (WG) Grand Cherokee (International Market)

NOTE: This bulletin applies to vehicles equipped with a 226RBA/Dana 44 rear axle (sales code = DRK).

SYMPTOM/CONDITION:

Axle fluid may weep past the rear axle vent line jiggle cap and track down the outside of the vent tube. The customer may experience a small deposit of axle fluid on the ground from the accumulated fluid tracking, but may not know the source of this axle fluid deposit.

The axle fluid weepage may be the result of residual fluid in the vent line being forced past the jiggle cap due to rapid pressure build up in the axle housing. This condition will normally occur following a vehicle cold soak period and a drive cycle where the engine is started and the vehicle driven at highway speeds almost immediately.

DIAGNOSIS:

1. Inspect the rear axle vent line for axle fluid tracking on the outside of the axle vent line.
2. If axle fluid is present on the axle vent line, and the customer has described the above condition, then perform the Repair Procedure.

PARTS REQUIRED:

| Qty. | Part No. | Description |
|------|------------|-----------------------------|
| 1 | 52070409AA | Canister, Fluid Accumulator |
| 8 | 34201631 | Plastic Rivet |
| 2 | NPN | Plastic Tie Wrap |

REPAIR PROCEDURE:

1. Raise the vehicle on a suitable frame lift.
2. Remove the rear bumper fascia by first removing the four (4) plastic push pins and two (2) screws in the liftgate opening. Remove the remaining four (4) plastic push

pins at the bottom of the fascia. At each rear wheel well opening remove the three (3) plastic rivets and 10 mm nut used to secure the fascia to the vehicle quarter panel. Release each large plastic retainer used to secure the sides of the fascia to each quarter panel. Use a long narrow trim stick positioned between the fascia and the quarter panel to release the tabs on each large plastic retainer. Remove the fascia from the vehicle. If necessary, refer to the appropriate Service Manual, section 13 - Frame & Bumpers, for detailed fascia removal instructions.

3. Remove the left rear wheel splash/stone shield from the vehicle.
4. If equipped, loosen but do not remove the two nuts and one bolt used to secure the evaporative canister assembly support bracket to the vehicle. Remove the nut used to secure the support bracket brace to the quarter panel.
5. Remove the evaporative canister assembly support bracket, if equipped, from the vehicle.
6. Disconnect the ORVR (evaporative vapor) hose elbow, if equipped, from the top of the canister so that the canister assembly can be positioned out of the way and to allow access to the rear axle vent line.
7. Remove the plastic tie wrap used to secure the end of the rear axle vent line to its support bracket.
8. Measure and mark a distance of 38 mm (1.5 in.) from the end of the rubber rear axle vent line. Do not include the jiggle valve in this measurement (Fig. 1).

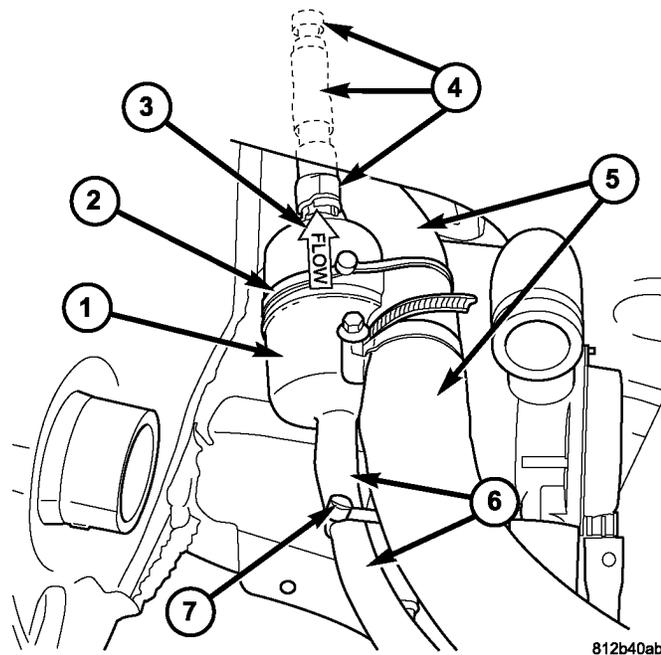


Fig. 1 REAR AXLE FLUID ACCUMULATOR

- 1 - Fluid Accumulator Canister
- 2 - Plastic Tie Wrap - Canister Body To Fuel Fill Tube
- 3 - "FLOW" Arrow Pointing Up And Toward Jiggle Valve
- 4 - Jiggle Valve, Vent Line Hose, and Quick Connect Fitting
- 5 - Fuel Fill Tube And Fill Hose
- 6 - Rear Axle Vent Line Between Fluid Canister And Axle
- 7 - Plastic Tie Wrap - Axle Vent Hose To Fuel Vent Hose

- 9. Cut the rear axle vent line hose at the 38 mm (1.5 in.) mark.
- 10. Install the jiggle cap with the 38 mm (1.5 in.) length of vent line to the quick connect fitting that is on one the end of the Fluid Accumulator Canister, p/n 52070409AA.
- 11. Install the rear axle vent line from the rear axle to the other end of the Fluid Accumulator Canister.

NOTE: On the outside of the canister is an arrow marked “FLOW”. The arrow must be pointing toward the jiggle cap. When the canister is installed to the vehicle the arrow must be pointing in the up direction.

- 12. Using plastic tie wraps secure the fluid accumulator canister at two locations: to the metal fuel filler tube, and to the fuel vent hose . Make certain that the accumulator canister is secure and will not rattle against other components when the vehicle is in operation.
- 13. Attach the ORVR elbow hose, if equipped, to the top of the evaporative canister.
- 14. Install the evaporative canister assembly support bracket and the support bracket brace, if equipped, to the vehicle. Tighten attaching nuts and bolts to 28 Nm (250 in. lbs.).
- 15. Install the splash/stone shield to the vehicle.
- 16. Install the rear bumper fascia to the vehicle.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

| Labor Operation No: | Description | Amount |
|---------------------|---------------------------------------|----------|
| 03-10-21-90 | Canister, Fluid Accumulator - Install | 1.0 Hrs. |

FAILURE CODE:

| | |
|----|----------|
| P8 | New Part |
|----|----------|

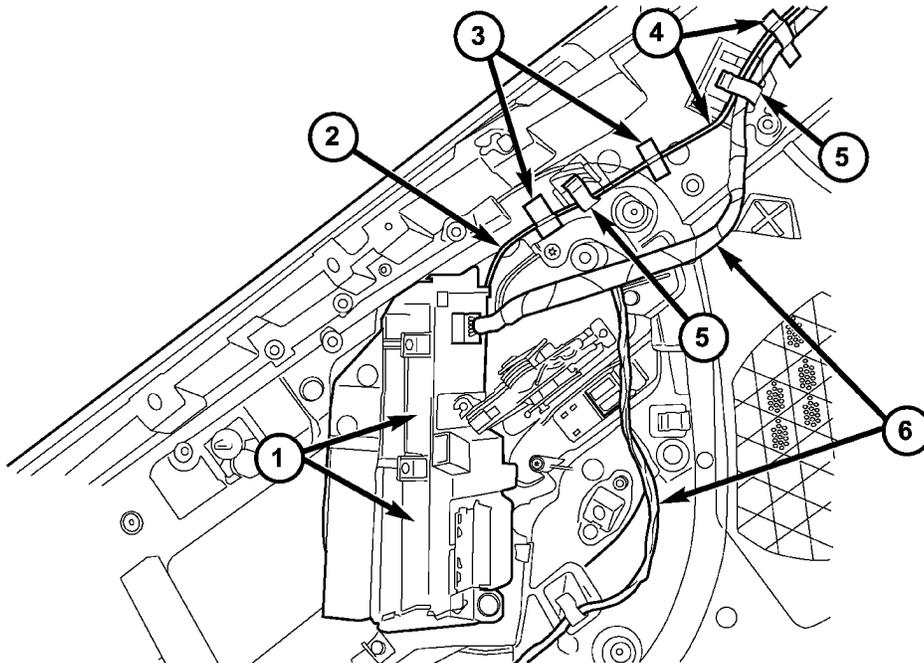
- If the RKE system operation is inconsistent or non-existent at the 7 meter (23 ft.) range, but system operation is correct at the 1.5 meter (5 ft.) range, then perform the Repair Procedure.

PARTS REQUIRED:

| Qty. | Part No. | Description |
|------|------------|--|
| 1 | 5JM61DX9AB | Door Module, Passenger (WJ - Domestic Mkt.) |
| 1 | 5JM63DX9AB | Door Module, Passenger (WG - International Mkt.) |

REPAIR PROCEDURE:

- Using the appropriate service manual, remove the passenger side door panel.
- Remove the old door module from the passenger side door panel. The old door module will not have an external antenna wire.
- Install the new door module while temporarily routing the external antenna wire along the door panel above the electrical wire harness (Fig. 1).



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Fig. 1 DOOR MODULE & EXTERNAL ANTENNA

- 1 - Passenger Side Door Module
- 2 - Door Module External Antenna Wire - 2 Possible Lengths
- 3 - Electrical Tape - 2 Locations On Back Of Door Panel
- 4 - Longer Length Antenna Wire And Extra Tape (WG only)
- 5 - Support Loops
- 6 - Door Panel Electrical Wire Harness

- If the vehicle is a WJ**, route the external antenna wire through the two support loops and tape the antenna to the door panel at two locations. The WJ external antenna is 431 mm. (17 in.) in length.

- 5. **If the vehicle is a WG**, the external antenna wire is 533 mm. (21 in.) in length. Route the WG antenna wire through both support loops and tape the antenna wire to the door panel. Tape the remaining length of antenna wire to the electrical wire harness.
- 6. Install the passenger side door panel.

POLICY:

Reimbursable within the provisions of the warranty.

TIME ALLOWANCE:

| Labor Operation No: | Description | Amount |
|----------------------------|------------------------------------|---------------|
| 08-80-77-91 | Replace Passenger Side Door Module | 0.3 Hrs. |

FAILURE CODE:

| | |
|----|-------------|
| SU | Short Range |
|----|-------------|