

**NUMBER:** 17-004-13

**GROUP:** Rear Suspension

**DATE:** March 01, 2013

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**SUBJECT:**

Cleaning Of Rear Air Suspension At Every Engine Oil Change

**OVERVIEW:**

This bulletin involves cleaning the left and right side rear air spring bellows and piston area at the lower control arm pocket in the rear of the vehicle.

**MODELS:**

2011-2014 (WK) Grand Cherokee (Russian Market Only)

**NOTE:** This bulletin applies to Russian Market vehicles (Sales Code 8FE) with Quadra-Lift (TM) Air Suspension (Sales Code SER) with Export Tuned Suspension (Sales Code SDM) or Quadra-Lift (TM) Air Suspension (Sales Code SER) with Sport Suspension (Sales Code SDE) only.

**NOTE:** DOES NOT APPLY TO REAR LOAD LEVELING SHOCKS or STANDARD REAR SUSPENSION (Sales Code SES + SDM; SES + SDE; SDM).

**SYMPTOM/CONDITION:**

Rear suspension air springs may become damaged due to abrasion from road debris or the air spring can become punctured due to ice/snow build-up at bottom of piston at lower control arm.

**DIAGNOSIS:**

All Russian Market vehicles that meet the above sales code requirements, perform the Repair Procedure.

**PARTS REQUIRED:**

Qty.	Part No.	Description
1 (AR)	6.295-508	Karcher RM565 Car Shampoo - 1 liter bottle
2 (AR)	NPN	Soft Dry Cloth (non-abrasive)

**NOTE:** Part 6.295-508 Karcher RM565 Car Shampoo - 1 liter bottle can be used on 10 vehicles.

**NOTE:** Only the above parts can be used to perform the following repair.

**REPAIR PROCEDURE:**

**WARNING:**All pressurized air suspension components contain high pressure air (up to 1517 kPa) or (up to 220 psig). Use extreme caution during inspection. Wear safety goggles and adequate protective clothing when inspecting or servicing the air suspension system. A sudden release of air under this amount of pressure can cause possible serious or fatal injury.

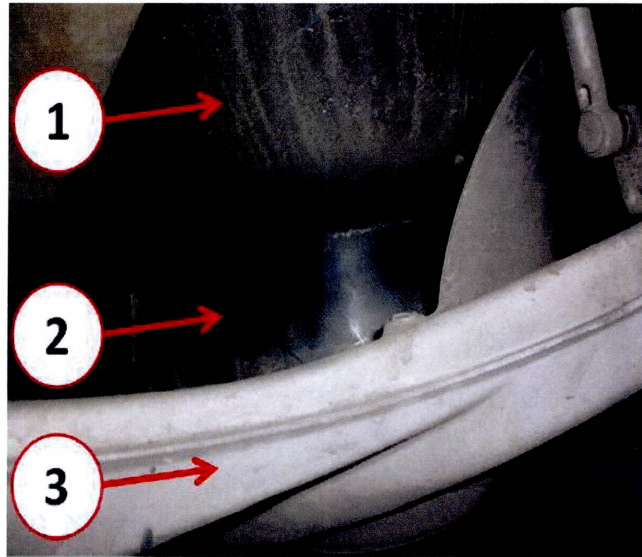
**WARNING:**Support the vehicle by supplemental means before performing any work on the air suspension system to prevent the vehicle from changing height. Before any given component is to be serviced it must be deflated. Servicing the air suspension system without supplemental support, or with pressure in the specific component, can cause possible serious or fatal injury.

1. Ensure vehicle air suspension is positioned at Normal Ride Height.
2. Turn off engine to prevent air suspension from automatic leveling.
3. With a scan tool, using the routines under the ASCM, perform the following.
4. Select MISC function TAB.
5. Disable the air suspension system.
6. Highlight "SPRING DEFLATE TO RESERVOIR" and select green arrow (START MISC FUNCTION).
7. Raise the vehicle on a suitable hoist. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info> 04- Vehicle Quick Reference> Hoisting> Standard Procedure> Hoisting.
8. Select "LEFT REAR AIR SPRING" then "COMPLETE DEFLATE".

**NOTE: NOTE: Must Perform [Step #8](#) 3 Times To Completely Deflate**

**NOTE: Suspension to be at full rebound, freely hanging, allowing full extension of air spring to aid in removal of debris and cleaning.**

9. Locate rear air spring bellows and piston area for cleaning ([Fig. 1](#)).



**Fig. 1 Rear Air Spring**

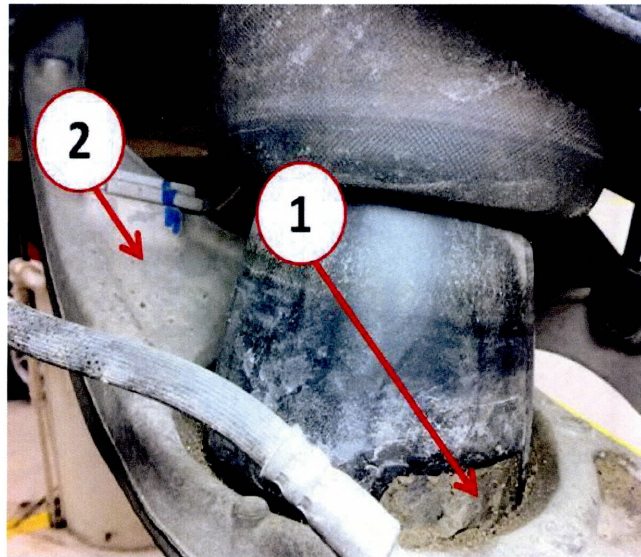
- 1 - Bellows
- 2 - Piston
- 3 - Lower Control Arm

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**NOTE: When cleaning use caution to not pull or dislodge rear air line at air spring valve.**

**CAUTION: DO NOT USE THE FOLLOWING SOLVENTS, AS THEY MAY DAMAGE THE AIR SPRING: BRAKE CLEANER, BUG AND TAR CLEANER, WHEEL AND TIRE CLEANER.**

10. Use water hose to flush debris from bottom of piston at lower control arm. Apply cleaning solvent to cloth and wipe bellows and piston area clean to remove road debris and compacted mud/road salt. Assure piston area is clean around all sides (entire circumference).
11. Confirm removal of debris from lower control arm seat at bottom of piston ([Fig. 2](#)).



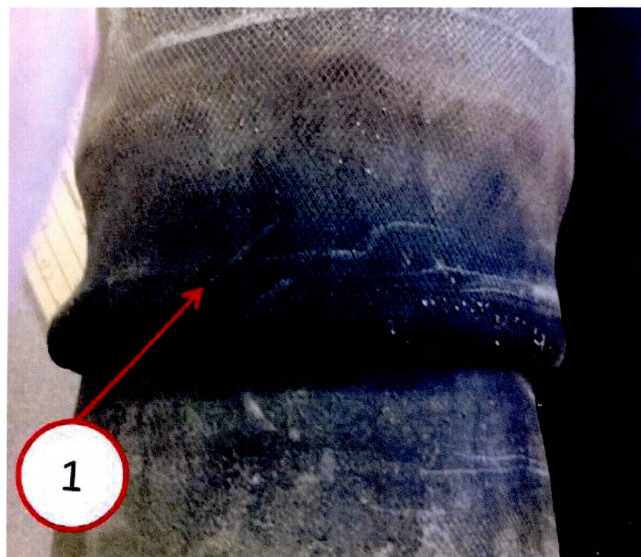
**Fig. 2 Rear Air Spring**

1 - Bottom Of Piston At Lower Control Arm

2 - Lower Control Arm

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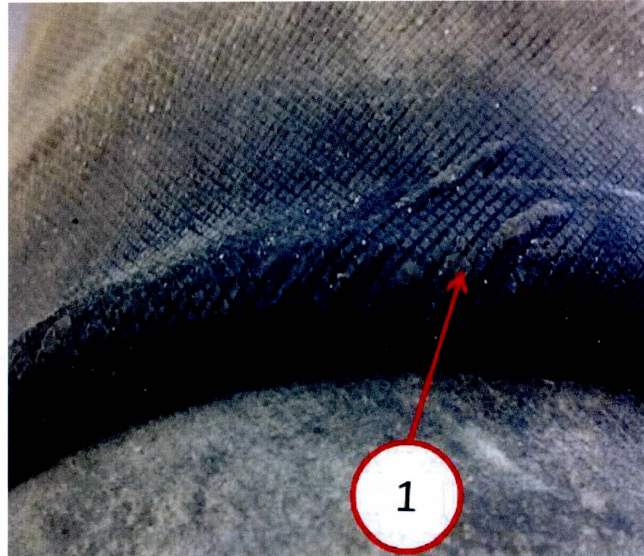
12. Inspect air spring bellows for signs of damage, such as raised bulges (Fig. 3) and (Fig. 4).



**Fig. 3 Rear Air Spring**

1 - Raised Bulges

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**Fig. 4 Rear Air Spring**

1 - Raised Bulges

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- 13. If air spring bellows are damaged, replace. Refer to the detailed service procedures available in DealerCONNECT> TechCONNECT under: Service Info> 17 Rear Suspension > Spring(s) > WITH AIR SUSPENSION (SER) > Removal/Installation.
  - 14. Repeat **Step #10** through **Step #12** on the other side rear air spring bellows and piston area.

**POLICY:**

Reimbursable within the provisions of the warranty.

**TIME ALLOWANCE:**

Labor Operation No:	Description	Amount
02- 30- 02- 91	Air Springs, Clean and inspect only	0.6 Hrs
02- 30- 02- 92	Clean and inspect then replace one rear air spring	0.6 Hrs.
02- 30- 02- 93	Clean and inspect then replace both rear air springs.	0.7 Hrs.

**FAILURE CODE:**

ZZ	Service Action
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