



WORLDWIDE

GROUP  
CampaignMODEL  
SephiaNUMBER  
015DATE  
July 2000

## Technical Service Bulletin

**SUBJECT:****Recall Campaign: ORVR Valve Replacement**

This bulletin provides information related to a recall campaign for 1998 and 1999 Sephia ORVR (On-board Refueling Vapor Recovery) valves. The ORVR valve in these vehicles may be mis-calibrated. A mis-calibrated ORVR valve could result in one or both of the following:

- Difficulty in filling fuel tank completely
- Fuel spillback or spit-back during refueling (possible safety concern)

To correct this situation, Kia is recalling all affected 1998 and 1999 Sephia models for emissions reasons to replace the ORVR valve. Because of the possible safety concerns, KIA has agreed with NHTSA's request that this also be treated as a safety related recall.

**\* NOTICE**

There is no charge to the customer for this repair. Under applicable law you may not sell or otherwise deliver any affected 1998 or 1999 Sephia until the ORVR valve has been replaced.

For California dealers, this recall is subject to the State Of California Registration Renewal/Emission Recall Enforcement Program implemented in 1992. Involved vehicles must have the recall service completed before registration renewal.

**INSPECTION:**

1. Open right rear passenger door and check for campaign completion label.



If label is present, campaign has already been done - NO ACTION IS REQUIRED.

2. If campaign completion label is not present, continue on to ORVR Valve Replacement Procedure.

**File Under: Campaign**

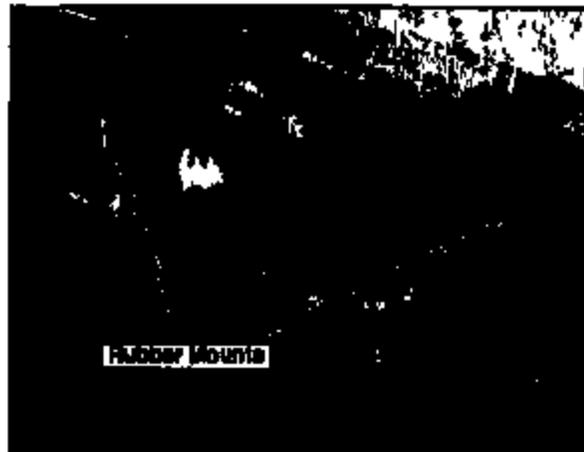
Circulate To:  General Manager  Service Manager  Parts Manager  
 Service Advisor(s)  Technician(s)  Body Shop Manager

**SUBJECT:**

**Emissions Recall Campaign: ORVR Valve Replacement**

**ORVR VALVE REPLACEMENT PROCEDURE**

1. Raise vehicle.
2. Remove rear exhaust system by removing two nuts at rear of main catalytic converter flange and disconnecting rubber mounts (5) from exhaust system hangers.



3. Remove 3 bolts holding charcoal canister to body. Leave hoses connected and suspend canister towards the right, using suitable strap or wire.



## SUBJECT:

## Emissions Recall Campaign: ORVR Valve Replacement

- Support fuel tank using a suitable jack or lifting device.

## \* NOTICE

If fuel tank is more than 1/4 full, it must be drained to avoid possible spillage from filler pipe and to reduce excessive weight while fuel tank is being removed and reinstalled.

## ⚠ WARNING

Fuel vapors are highly flammable. Death or serious injury could result if they are ignited. Make sure there are no open flames or cigarette smoking in the area of the repair. Adequate ventilation is necessary to prevent a buildup of fumes which could ignite, causing fire or explosion.

Loosen and remove two bolts securing the tank straps to the body; lower fuel tank only so far as to allow access to the joint hose connecting the filler neck to the fuel tank. (Exhaust heat shield may be left attached to the RH tank strap.)

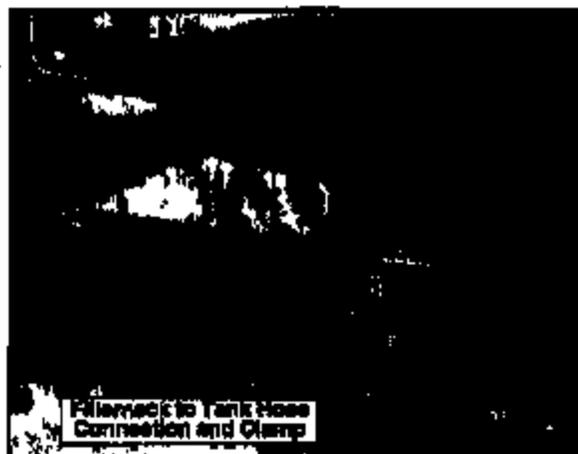
- Using compressed air, blow loose dirt, etc. from area around ORVR valve.
- Loosen filler neck joint hose clamp on the tank side and disconnect hose.
- Lower tank carefully to where the top rear of the tank is just below the rear stabilizer bar.

Free ORVR and rollover vent lines by bending open the metal tabs on tank.

Release hose clamp, and disconnect vent hose from ORVR valve. Position hose over rear stabilizer bar.



Tank strap Attaching Bolts



Fillerneck to Tank Hose Connection and Clamp



Tank Lowered For Hose Clamp Access

**SUBJECT:**

**Emissions Recall Campaign: ORVR Valve Replacement**

8. Remove ORVR valve by turning it 1/4 of a turn counter clockwise and lifting up. Discard old valve.
9. Verify that ORVR seating surface in tank is clean.



10. Apply a small amount of lubricant to ORVR seal ring and spring washer to facilitate installation.

Place new ORVR valve in tank opening with hose connection outlet positioned at three o'clock.

Push down on the valve to seat seal ring and compress spring ring, then rotate clockwise 1/4 of a turn until stop is felt and hose outlet is pointing to rear.



11. Re-connect vent hose to ORVR valve, and reposition hose clamp.

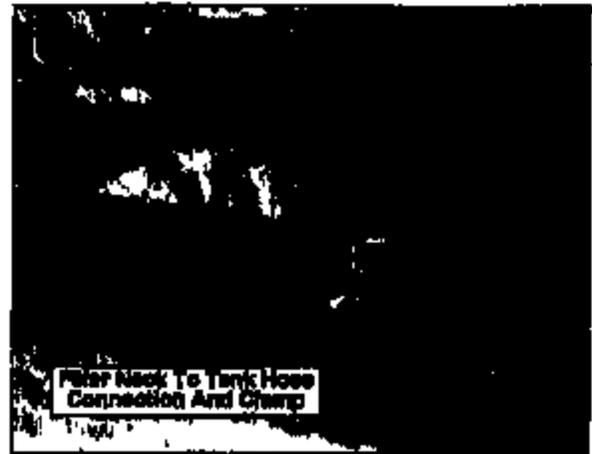
Secure vent lines in place by bending metal tabs on tank around lines.



**SUBJECT:****Emissions Recall Campaign: ORVR Valve Replacement**

12. Raise tank carefully until filter neck joint hose connection can be made.

Connect hose to tank, and tighten hose clamp.



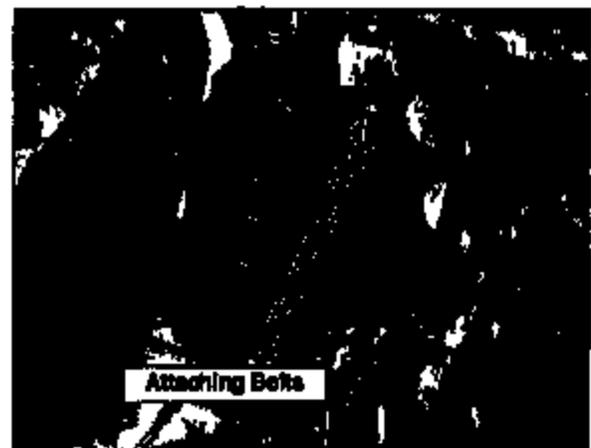
13. Raise tank completely; adjust position as required to allow tank straps to be attached. Install and tighten two bolts attaching tank straps to body.

**CAUTION**

Ensure fuel lines or electrical connectors do not get pinched between tank and body.



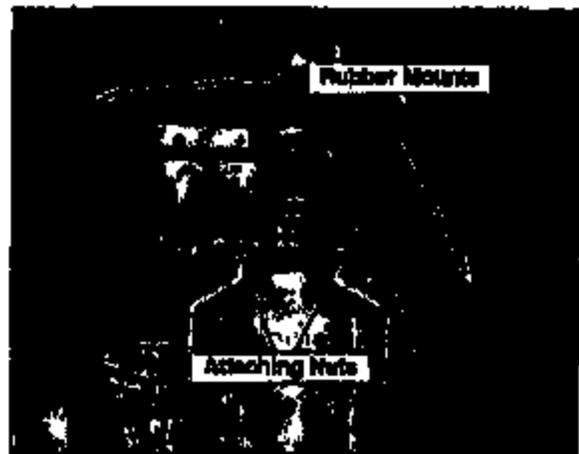
14. Re-mount charcoal canister to body with 3 bolts and tighten.



**SUBJECT:**

**Emissions Recall Campaign: ORVR Valve Replacement**

15. Place a new gasket on the catalytic converter flange. Position exhaust system on converter studs and attach at least one rubber mount in the rear to support exhaust, then install catalytic converter flange nuts and attach remaining rubber mounts.



16. Lower vehicle.
17. Re-connect negative battery cable.

**\* NOTICE**

If fuel was removed, transfer back into vehicle.

18. Install campaign completion label on right rear door jamb as indicated in photo.





July xx, 2000

**Attention: All Kia Service Managers**

Kia Motors Corporation, in cooperation with the U.S. Environmental Protection Agency, the California Air Resources Board and National Highway Traffic Safety Administration, is conducting a Recall Campaign to replace the ORVR (On-Board Refueling Vapor Recovery) valve on 1998 and 1999 Sephia models. Existing ORVR valves may be mis-calibrated.

Kia will send a letter to all affected Sephia owners asking them to take their vehicles to an authorized Kia dealer to have the ORVR valve replaced.

If the ORVR valve is not replaced, one or more of the following could occur:

- ✓ Difficulty in completely filling fuel tank
- ✓ Fuel spit-back when re-fueling
- ✓ Failure of a vehicle inspection or registration renewal emission test.

**NOTE: Please advise KMA immediately if a customer complains that he has a spillback or spitback problem after the repair is completed.**

### ***What You Should Do***

- Replace the ORVR valve in affected vehicles in your inventory.
- For California dealers:
  - ✓ This recall is subject to the State of California Registration Renewal/Emissions Recall Enforcement Program implemented in 1992. Since involved vehicles must have the recall service completed before registration renewal, dealers should provide prompt service to prevent possible registration delays.
  - ✓ Be sure to provide a Vehicle Emission Recall Proof of Correction form (supplied) to each owner upon completion of the recall service for owner use as proof during renewal of vehicle registration.

- Please make certain that the appropriate personnel are familiar with the details of this campaign to ensure proper responses to customer inquiries and requests for campaign service.
- Enclosed please find the support materials for this campaign:
  - ✓ Copy of the customer letter.
  - ✓ Kia Technical Service Bulletin (2).
  - ✓ Vehicle Emission Recall Proof of Correction forms.
  - ✓ SC015 Recall Completion stickers.
  - ✓ Listing of Kia Sephia customers affected by the recall.
  - ✓ Questions and Answers for the recall.

As you perform repairs on affected vehicles, check these off your recall listing so that you will be able to identify and contact those customers who have not been in for the recall.

If you have any questions regarding this recall, please contact your District Parts/Service Manager or District Sales Manager.

We apologize for any inconvenience that this recall may cause your dealership.

Sincerely,

Lee Sawyer  
Senior Vice President,  
Fixed Operations

Enclosures

July xx, 2000

**Dear Kia Sephia Owner:**

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act. Kia Motors Corporation, in cooperation with the U.S. Environmental Protection Agency, the California Air Resources Board and the National Highway Traffic Safety Administration, is conducting a Recall Campaign to replace ORVR (On-Board Refueling Vapor Recovery) valves on 1998 and 1999 Sephia models.

**The Reason for This Notice**

The ORVR (On-Board Refueling Vapor Recovery) valve, which is located in the fuel tank, may be mis-calibrated. The mis-calibrated valve may cause problems when filling your fuel tank, such as difficulty filling the tank completely. It may also result in fuel spit-back during refueling which could possibly affect your safety. There have, however, been no accidents or injuries reported related to this problem.

**What Kia Will Do**

To correct this problem, your Kia dealer will replace the ORVR valve. The repair should take about two hours. There will be no charge to you for this service.

**What You Should Do**

Please make an appointment with any authorized Kia dealer and take your vehicle to the dealer for this service. Bring this letter with you to your dealer. If possible, please try to bring your vehicle to the dealer with the fuel tank  $\frac{1}{4}$  full or less to help expedite the repair.

**For Vehicles Sold in California**

The State of California requires the completion of emission recall repairs before vehicle registration can be renewed. Your dealer will provide you with a Vehicle Emission Recall Proof of Correction Form after the recall service is completed. Be sure to save this form since the California Department of Motor Vehicles may require you to supply it as proof of recall completion.

If you have moved or no longer own the subject vehicle, please complete and mail the enclosed postage paid "Change of Address/Ownership" card to us for updating our records.

**If You Have a Problem**

Should you have any questions regarding this Recall Campaign or experience any difficulty in obtaining the recall service, please contact your nearest authorized Kia dealer or call Kia's Customer Assistance Center at (800) 333-4542.

If you are still not satisfied that we have remedied this matter free of charge and within a reasonable period of time, you may wish to contact:

Administrator  
National Highway Safety Administration  
400 Seventh Street, S.W.  
Washington, D.C 20590 or call  
the toll-free Auto Safety Hotline at  
(1-800-424-9393)

OR (District of Columbia residents Only)

call 202-366-0123

or

U.S. EPA Vehicle Programs & Compliance Division  
6405J  
Washington, D.C. 20460

OR (California Residents Only)

California Air Resources Board  
9528 Telstar Avenue  
El Monte, CA 91731

Please accept our apologies for any inconvenience this matter may cause you.

Sincerely,

Consumer Affairs Department

Container Completion Sticker

CAMPAIGN  
**SC015**  
DO NOT REMOVE

CAMPAIGN  
**SC015**  
DO NOT REMOVE

CARB Proof of Correction Certificate

Vehicle: **Garson, Ronald**    **Proof of Correction**

Year	Make	Model	Color	Plate	Registration	Inspection	Inspection Date	Inspection Location	Inspection Type	Inspection Result	Inspection Fee	Inspection Agency
2008	Toyota	Camry	Black	123456	123456789	Pass	01/15/08	DMV	Annual	Pass	\$100	DMV
2009	Toyota	Camry	Black	123456	123456789	Pass	01/15/09	DMV	Annual	Pass	\$100	DMV
2010	Toyota	Camry	Black	123456	123456789	Pass	01/15/10	DMV	Annual	Pass	\$100	DMV
2011	Toyota	Camry	Black	123456	123456789	Pass	01/15/11	DMV	Annual	Pass	\$100	DMV
2012	Toyota	Camry	Black	123456	123456789	Pass	01/15/12	DMV	Annual	Pass	\$100	DMV
2013	Toyota	Camry	Black	123456	123456789	Pass	01/15/13	DMV	Annual	Pass	\$100	DMV
2014	Toyota	Camry	Black	123456	123456789	Pass	01/15/14	DMV	Annual	Pass	\$100	DMV
2015	Toyota	Camry	Black	123456	123456789	Pass	01/15/15	DMV	Annual	Pass	\$100	DMV
2016	Toyota	Camry	Black	123456	123456789	Pass	01/15/16	DMV	Annual	Pass	\$100	DMV
2017	Toyota	Camry	Black	123456	123456789	Pass	01/15/17	DMV	Annual	Pass	\$100	DMV
2018	Toyota	Camry	Black	123456	123456789	Pass	01/15/18	DMV	Annual	Pass	\$100	DMV
2019	Toyota	Camry	Black	123456	123456789	Pass	01/15/19	DMV	Annual	Pass	\$100	DMV
2020	Toyota	Camry	Black	123456	123456789	Pass	01/15/20	DMV	Annual	Pass	\$100	DMV
2021	Toyota	Camry	Black	123456	123456789	Pass	01/15/21	DMV	Annual	Pass	\$100	DMV
2022	Toyota	Camry	Black	123456	123456789	Pass	01/15/22	DMV	Annual	Pass	\$100	DMV

By signing this certificate, I am certifying that the information provided is true and correct.