

**VOLUME****3****GROUP  
Campaign****NUMBER  
048****MODEL  
Sportage****DATE  
May 2005**

## TECHNICAL SERVICE BULLETIN

**SUBJECT:**

SAFETY RECALL CAMPAIGN: 2005 SPORTAGE FUEL TANK

This bulletin provides information related to a recall campaign for 2005MY Sportage vehicles produced from 10/28/04 through 3/26/05.

On some 2005MY Sportage vehicles, in the relevant production range, fuel may leak past an O-ring into the internal vapor chamber located in the fuel tank. Under certain conditions the following may occur:

- Engine stalls when coming to a stop
- Hard to fill the gas tank
- Fuel may leak from the evaporative air filter inlet

To correct this situation, Kia is recalling all affected 2005MY Sportage vehicles to do an inspection and if found defective, replace the fuel tank and charcoal canister.

**⚠ DANGER**

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

**\* NOTICE**

**There is no charge to the vehicle owner for this repair. Under applicable law, you may not sell or otherwise deliver any affected 2005MY Sportage until it has been repaired, pursuant to the procedures set forth in this bulletin.**

**File Under: Campaign**

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

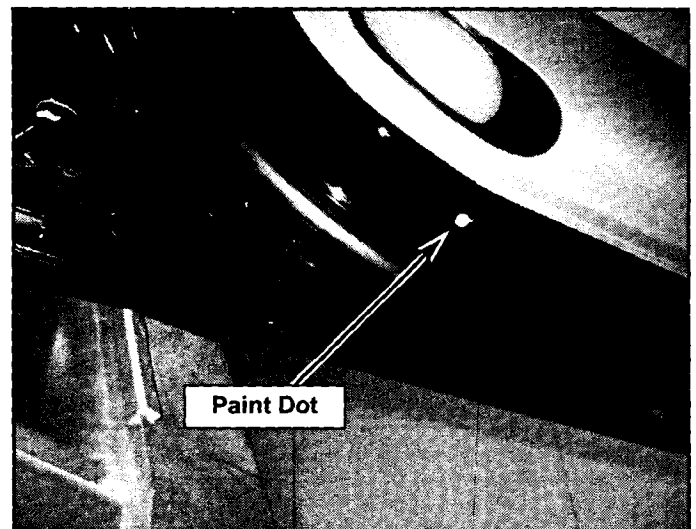
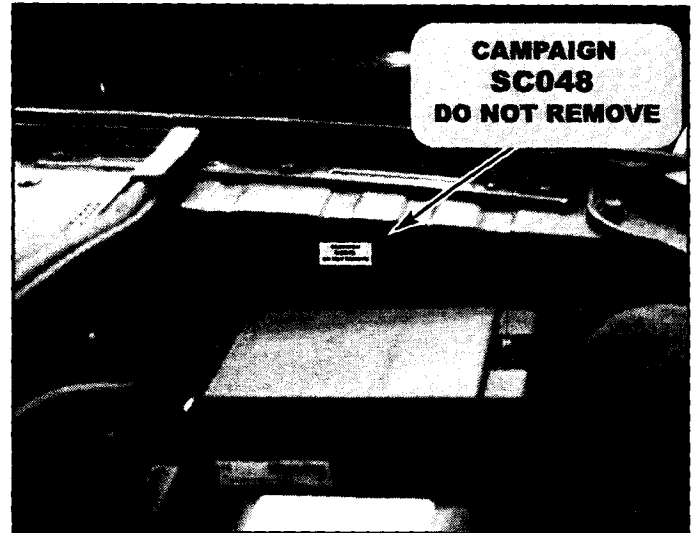
SUBJECT

## SAFETY RECALL CAMPAIGN: 2005 SPORTAGE FUEL TANK

### FUEL TANK INSPECTION:

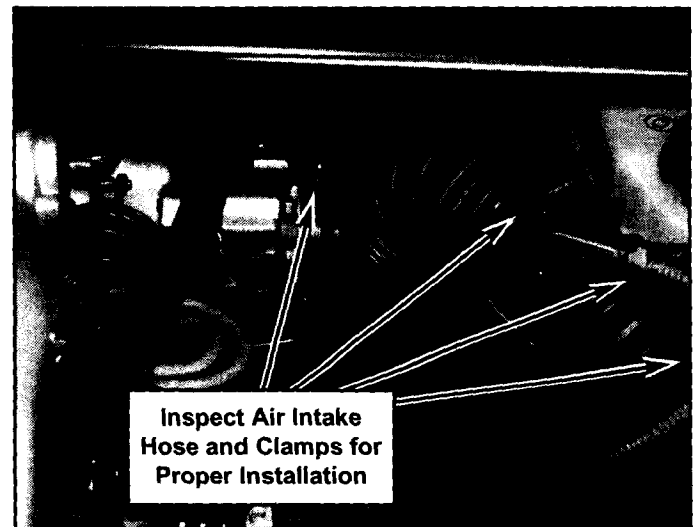
1. Open hood and check for SC048 Campaign Completion Label on the panel above the underhood fuse box.
  - If label exists, Campaign SC048 has been completed - NO FURTHER ACTION IS REQUIRED.
  - If Campaign SC048 label DOES NOT EXIST, continue on to Step 2.
2. Open driver's door; inspect for paint dot on bottom of door below courtesy lamp.
  - If the paint dot exists, NO FURTHER ACTION IS REQUIRED.
  - If the paint dot DOES NOT EXIST, continue to Steps 3~8.

**Note:** Campaign completion must be verified on the Warranty Coverage Validation Inquiry screen, prior to performing repairs (Kia Standard System [KSS] Main Menu - Option 3).



3. Inspect the air intake hose and clamps. Clamps should be tightened during the inspection process, as required.

**Note:** When an engine stall occurs the intake manifold pressure may cause the boot to be slightly pushed off at the various points due to the over-rich condition, possibly causing backfire and engine stall on deceleration.



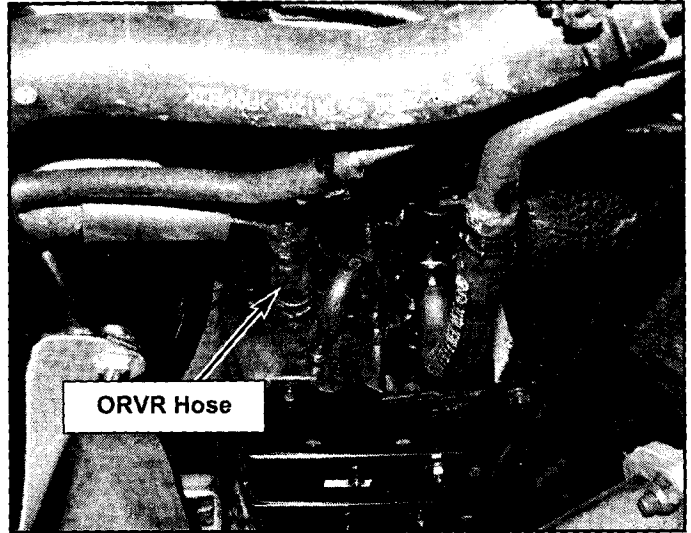
**SUBJECT:**

**SAFETY RECALL CAMPAIGN: 2005 SPORTAGE FUEL TANK**

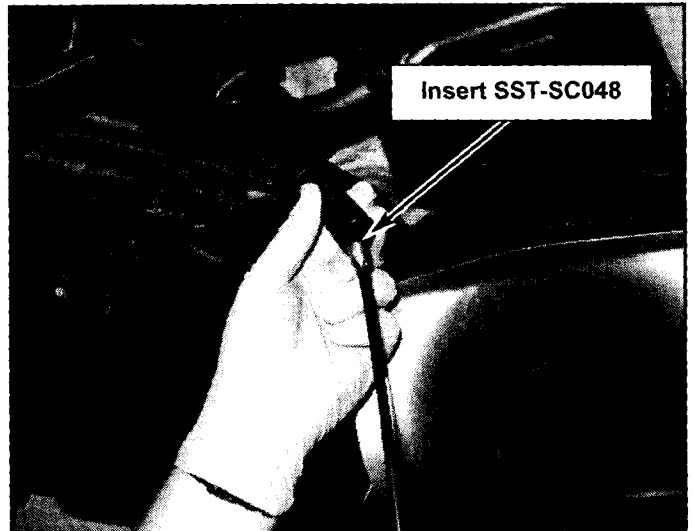
4. Raise and properly support the vehicle.



5. Disconnect the ORVR vapor hose from the charcoal canister.



6. Lubricate the rubber seal on the end of the tool with light coating of Vaseline™. Insert SST-SC048 into the removed canister hose.



SUBJECT:

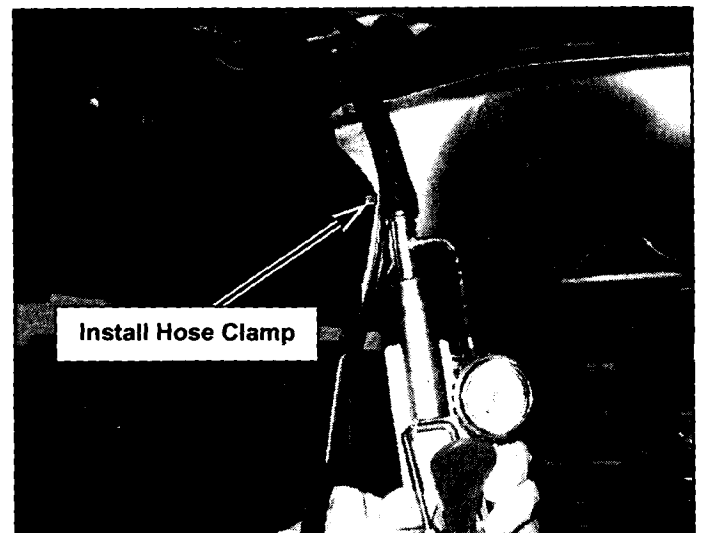
## SAFETY RECALL CAMPAIGN: 2005 SPORTAGE FUEL TANK

### \* NOTICE

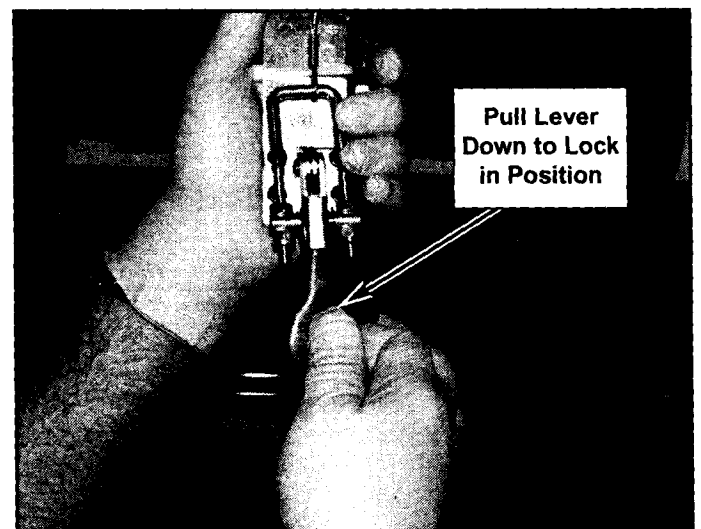
SST-SC048 was sent to dealership free of charge. If lost, replacements can be ordered by calling 1 866 542-8665 and ordering P/N SST-SC048. Replacement cost is \$25.00 and will be billed to your parts account.

If your SST-SC048 is not working properly, contact Kia TechLine for assistance.

7. Install the hose clamp.



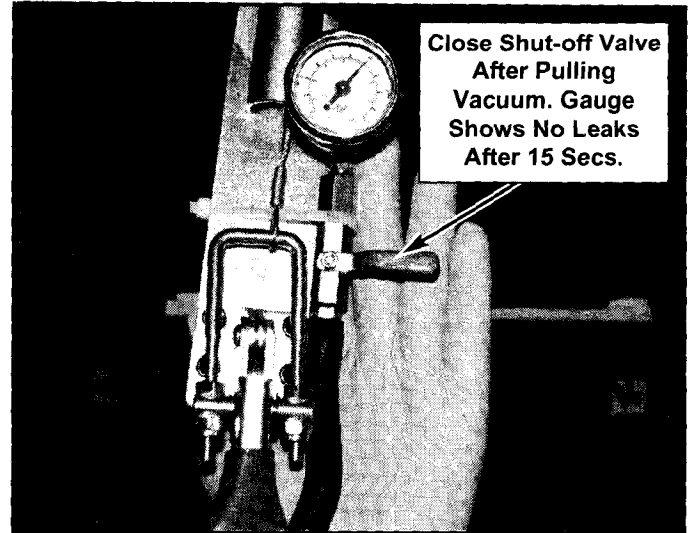
8. Pull and lock the "red" lever down into the locked position. This will seal the far end of the tool that was inserted in the fuel tank.



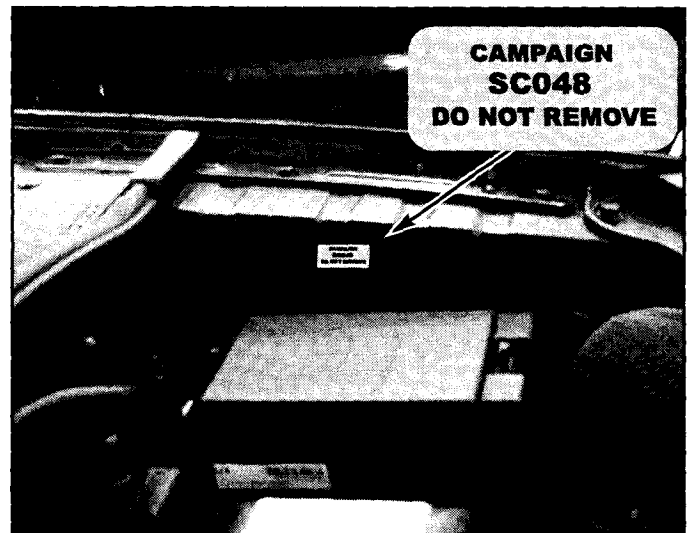
SUBJECT:

**SAFETY RECALL CAMPAIGN: 2005 SPORTAGE FUEL TANK**

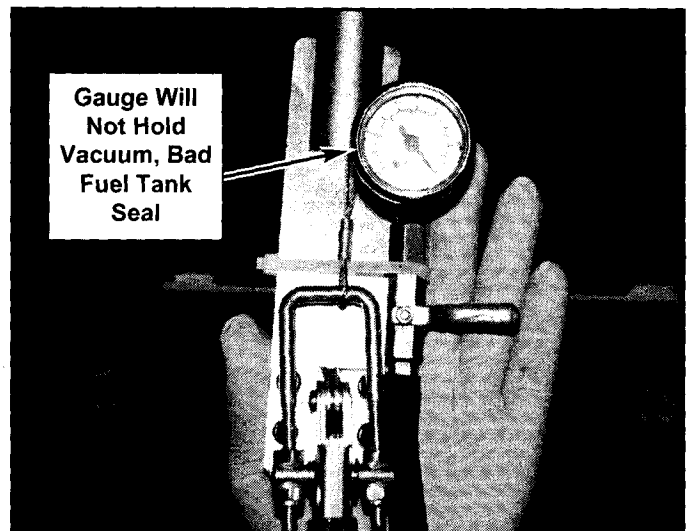
9. Actuate the vacuum pump until -40" kPa (-300 mm Hg) of vacuum is achieved. Rotate the shut-off valve to the closed position. The vacuum level should hold for 15 seconds. If the vacuum holds for the recommended amount of time, fuel tank replacement is NOT necessary.



10. If vehicle passed the test in Step 8, attach SC048 Campaign Completion Label on the panel above the underhood fuse box.



11. **If the fuel tank fails** (is unable to create or will not hold vacuum), it WILL BE necessary to replace it. Charcoal canister replacement WILL BE necessary on CUSTOMER vehicles. If replacement is required, proceed to the Fuel Tank Replacement procedure.



SUBJECT

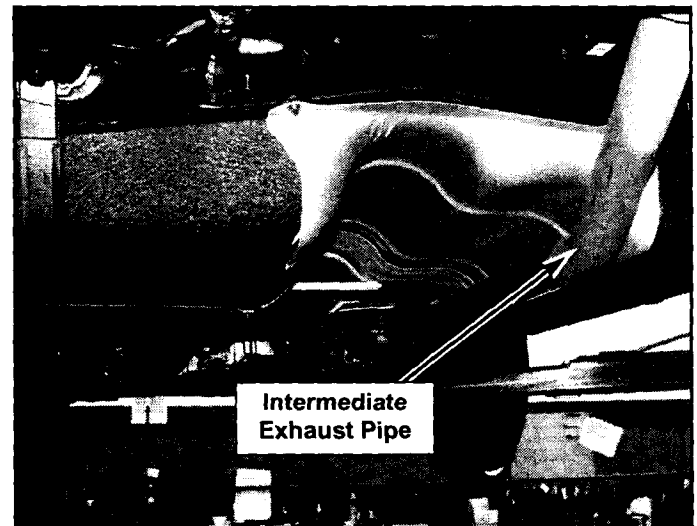
## SAFETY RECALL CAMPAIGN: 2005 SPORTAGE FUEL TANK

### FUEL TANK REPLACEMENT:

1. Lower the vehicle from the hoist/lift.
2. Remove the fuel pump relay and start the engine until the engine stalls. This will decrease the fuel system pressure in the fuel lines for removal.
3. Raise the vehicle to complete the fuel tank and canister removal process.



4. Disconnect and remove the exhaust intermediate pipe.



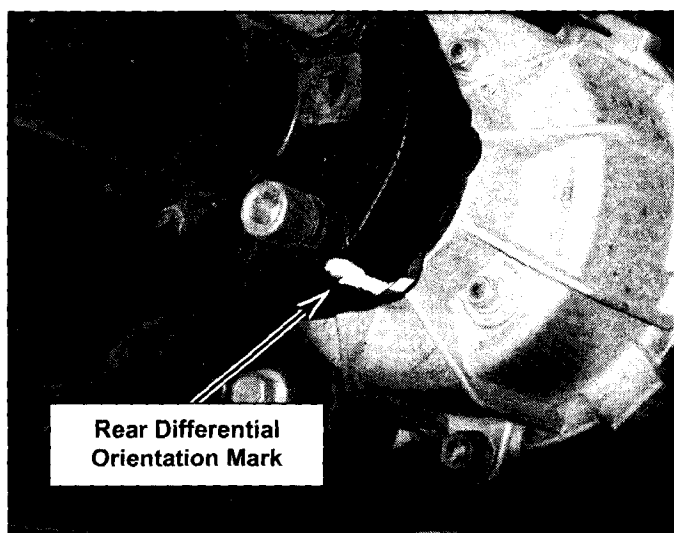
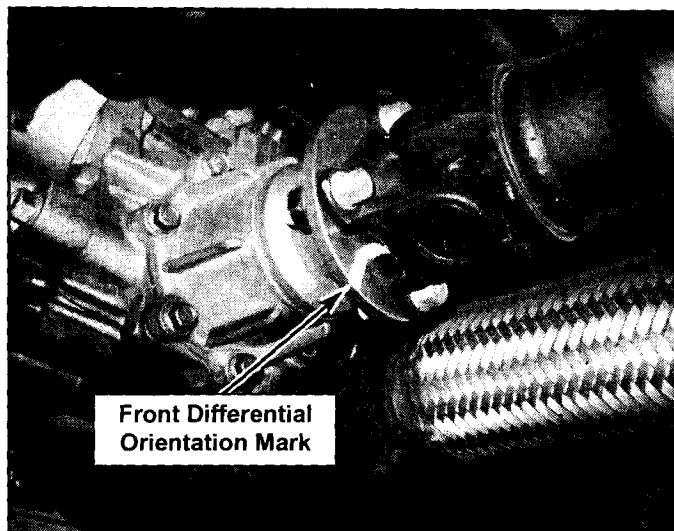
5. Support the catalytic converter.



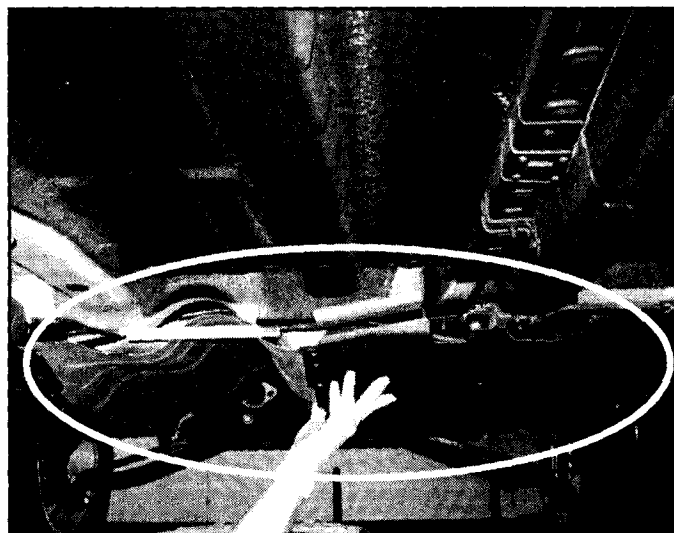
**SUBJECT:**

**SAFETY RECALL CAMPAIGN: 2005 SPORTAGE FUEL TANK**

6. Mark the driveshaft orientation (front and rear) then disconnect and remove the driveshaft on 4-wheel drive vehicles.



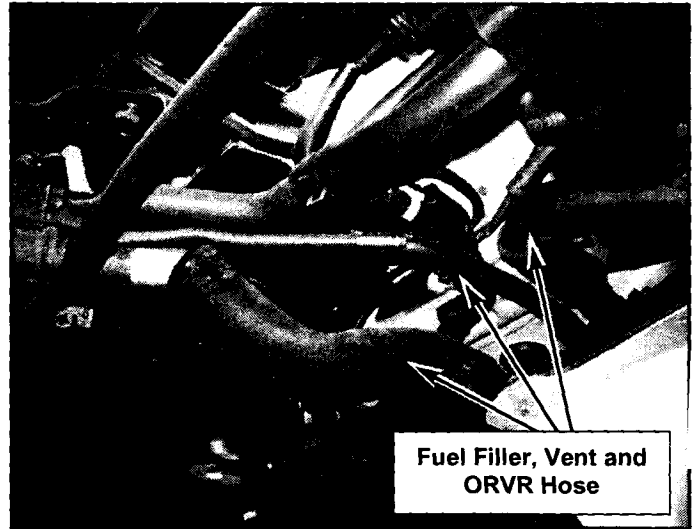
7. Remove the splash shield from the front side of the fuel tank.



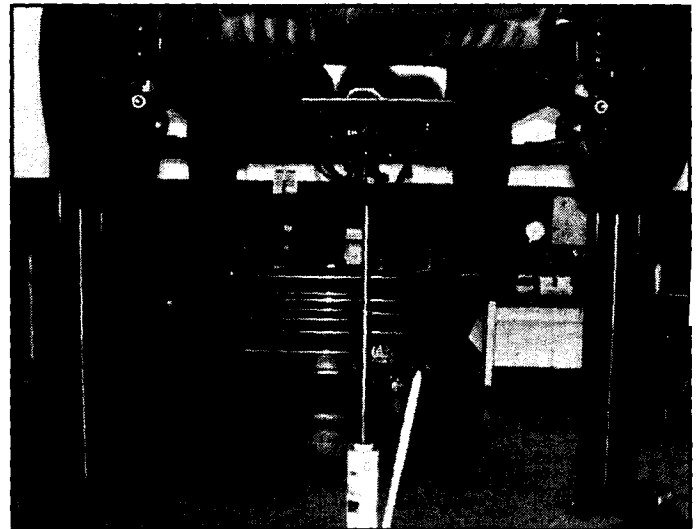
SUBJECT

## SAFETY RECALL CAMPAIGN: 2005 SPORTAGE FUEL TANK

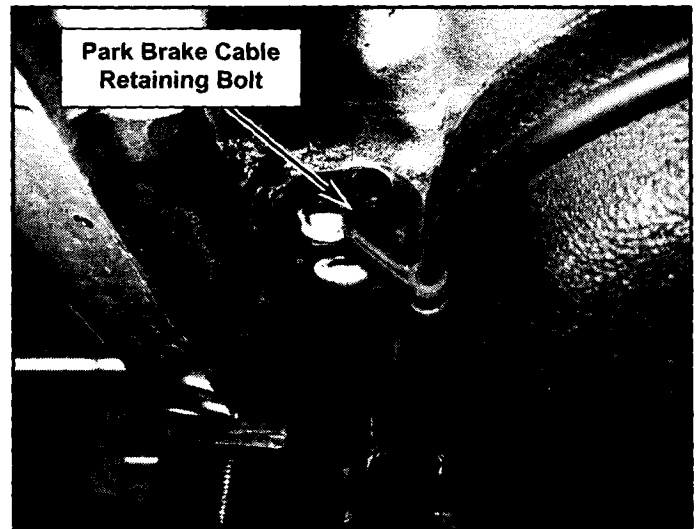
8. Disconnect the fuel filler neck hose and vent hose at the fuel tank. ORVR hose should already be disconnected from the fuel tank testing procedure.



9. Safely support the gas tank assembly with a transmission jack and plywood to protect the gas tank, as shown.



10. Remove the two (2) bolts that retain the parking brake cable brackets on both sides of the fuel tank.

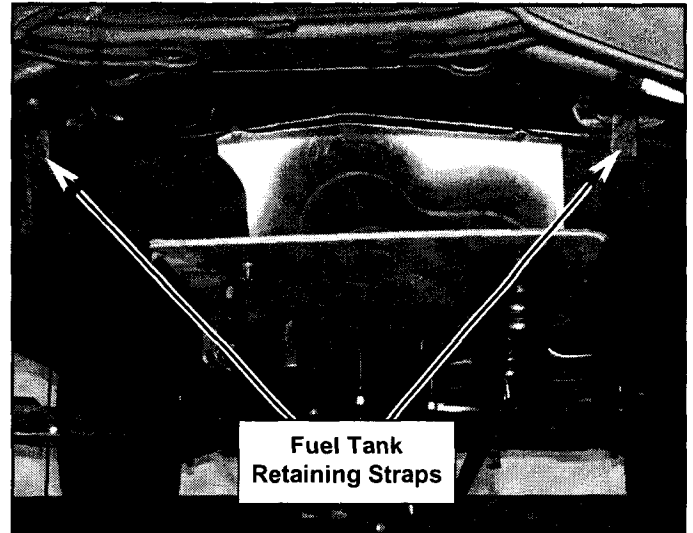




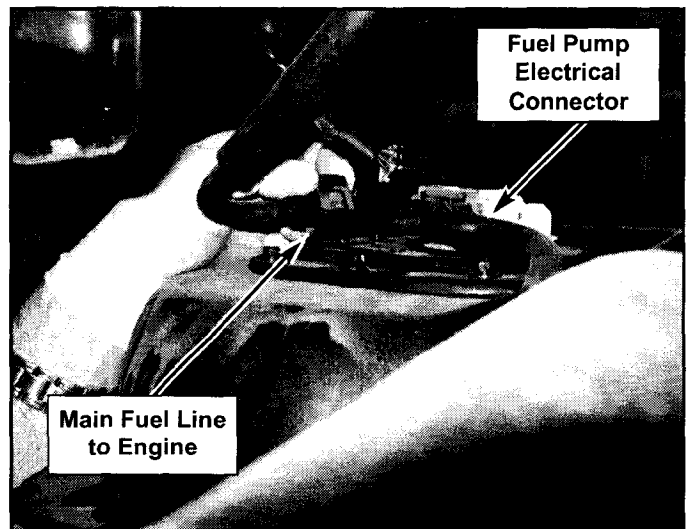
SUBJECT:

**SAFETY RECALL CAMPAIGN: 2005 SPORTAGE FUEL TANK**

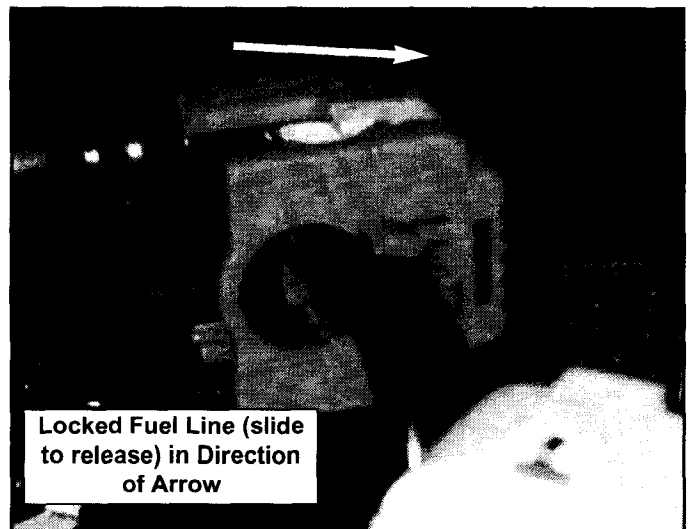
11. Remove the four (4) bolts retaining the fuel tank straps to the body.



12. Lower the fuel tank 5-inches to gain access the fuel pump and sender unit electrical connectors. Disconnect the main fuel line to the engine. The right side fuel line will be removed when the complete tank is removed; this is the cross-over fuel line due to the tanks saddle design.



13. Depress the buttons on each side of the fuel line after releasing the lock to remove.



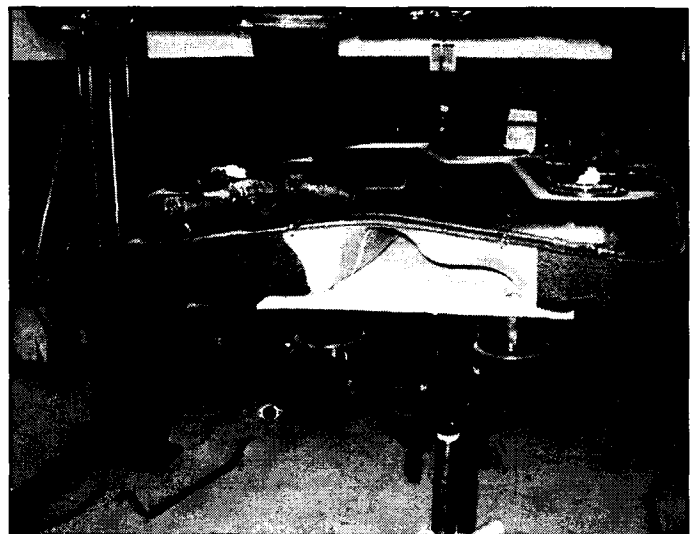
SUBJECT

## SAFETY RECALL CAMPAIGN: 2005 SPORTAGE FUEL TANK

14. Disconnect the right side fuel sub-sender electrical connector.



15. Lower the fuel tank from the vehicle.



16. Transfer the fuel into a suitable gasoline transfer device.



**DANGER**

**Make sure to attach the ground cable from the transfer device to the gas tank during transfer of gasoline.**



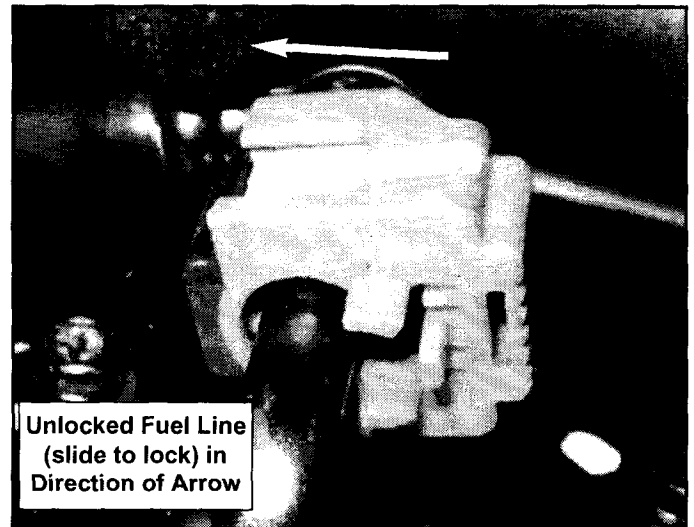
## SUBJECT:

**SAFETY RECALL CAMPAIGN: 2005 SPORTAGE FUEL TANK**

17. Remove and transfer these components to the new fuel tank:
  - Fuel pump assembly and O-ring (torque screws to 108 inch lbs)
  - Fuel sender sub-assembly and O-ring (torque screws to 108 inch lbs)
  - Fuel hoses (fuel fill, vent, and ORVR hoses)
  - Fuel line (fuel pump to sub-sender)
  - Heat shield from bottom of fuel tank (tighten screws to 96 inch lbs)
  - Fuel shut-off valve in filler neck (green valve assembly in tank)
  - Insure all rubber pads are in the correct location (compare old against new tank)
18. **Replace the charcoal canister as required on customer vehicles only when the fuel tank is removed.**

## FUEL TANK INSTALLATION:

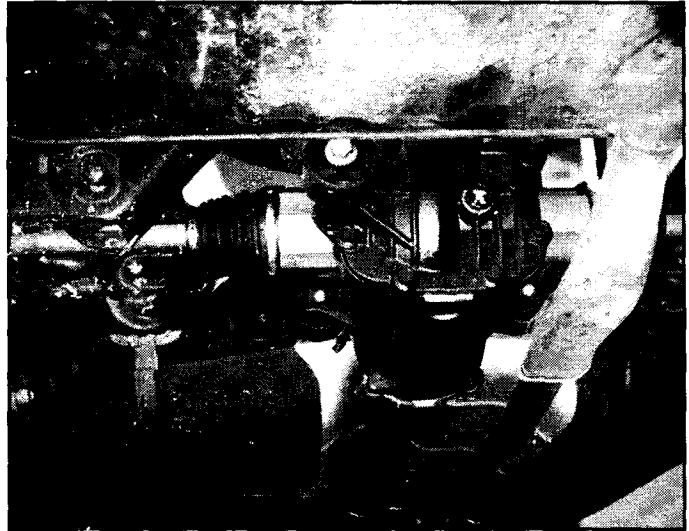
1. Raise the fuel tank into position, connect the main fuel line, and then lock (slide as shown) the fuel line. Connect the electrical connector to the fuel pump and sub-fuel sender assembly.
2. Install the fuel tank straps retaining the fuel tank to the body, torque to 13~20 ft. lbs. (18~27 Nm).
3. Install the park brake cable brackets, torque to 11~15 ft. lbs. (15.6~21.5 Nm).
4. Install the splash shield on the front side of the fuel tank, torque to 96 inch lbs.
5. Connect the fuel filler neck hose, vent hose and ORVR hose at the fuel tank.



SUBJECT

## SAFETY RECALL CAMPAIGN: 2005 SPORTAGE FUEL TANK

6. 4-wheel drive equipped vehicles:  
Install and align the marks made during disassembly of the rear propeller shaft on 4-wheel drive vehicles, torque to:
  - Front propeller shaft mounting to 36~44 ft. lbs. (50~60 Nm)
  - Center bearing bracket mountings to 36~47 ft. lbs. (50~65 Nm)
  - Rear propeller shaft mountings to 73~88 ft. lbs. (100~120 Nm)
7. Install the intermediate exhaust pipe, torque to 30~44 ft. lbs. (40~60 Nm). Connect the exhaust system hangers as required. Replace exhaust gaskets, if necessary.



**! DANGER**

**Make sure to attach the ground cable from the transfer device to the gas tank during transfer of gasoline.**

**\* NOTICE**

**Refuel the vehicle with the fuel removed from the gas tank.**



8. Lower the vehicle. Start the engine for one minute and turn OFF. Inspect for fuel leaks.
9. Attach SC048 Campaign Completion Label on the panel above the underhood fuse box.



**SUBJECT:**

**SAFETY RECALL CAMPAIGN: 2005 SPORTAGE FUEL TANK**

**FOR CALIFORNIA, MASSACHUSETTS, VERMONT, AND MAINE DEALERS:**

**VEHICLE EMISSION RECALL - PROOF OF CORRECTION CARD**

A Vehicle Emission Recall - Proof of Correction card **must be** filled out for all vehicles registered in California, Massachusetts, Vermont, and Maine.

California, Massachusetts, Vermont, and Maine residents who own an affected vehicle will be required to possess a **Vehicle Emission Recall - Proof of Correction** card as evidence of voluntary service campaign completion when they apply for vehicle registration renewal.

**WHAT TO DO WITH THE CARD:**

Each customer whose vehicle is registered in California, Massachusetts, Vermont, and Maine must be **given** a completed **Vehicle Emission Recall - Proof of Correction** card after the voluntary service campaign has been completed.

**Note: This card MUST be completed by the Dealership's Service Manager using a permanent ink pen. A fine point pen is recommended. When filling in the information, copy the information directly from the vehicle, NOT the repair order. ALL INFORMATION MUST BE PRINTED AND NEAT.**

**DO NOT COMPLETE THE CARD UNLESS THE VOLUNTARY SERVICE CAMPAIGN WORK IS COMPLETED!**

The copy of the card shown below indicates the areas to be filled in. **Each area must be filled in.**

Enter Vehicle's License Number

Enter Vehicle's Model Year

Enter Vehicle's Model Name (i.e. Rio)

Enter Vehicle's VIN No.

**Vehicle Emission Recall —Proof of Correction**

License Number    Make    Year    Model    Body Type    Vehicle Identification Number

Manufacturer: **Kia Motors America, Inc.**    Recall Number: **SC048**

The above described vehicle has been repaired, modified and/or equipped with new emission control devices to meet applicable California Emission Control Laws and for vehicles sold in Massachusetts, Vermont and Maine.

Dealers Name    Address, City, State and Zip

Date    Dealership Authorized Signature

X

Return this certificate to DMV only when required— otherwise retain for your records.

Enter Dealership's Name    Enter Date of Repair    Sign Here    Enter Dealership's Physical Address (NOT Mailing Address)

SUBJECT

**SAFETY RECALL CAMPAIGN: 2005 SPORTAGE FUEL TANK**

## AFFECTED PRODUCTION RANGE:

2005MY Sportage vehicles produced between 10/28/04 - 3/26/05.

## PART NUMBER INFORMATION:

Description	P/N
Tank Assembly - 4 Cylinder, 2.0L	Q3115 02E300Q
Tank Assembly - 6 Cylinder, 2.7L	Q3115 02E350Q
Canister Assembly *	Q3141 02E300Q
SC048 Campaign Completion Label	UP050 SC048
SC048 Proof of Correction Card	UP051 SC048

\*Replace the charcoal canister on **customer vehicles ONLY**, do NOT replace charcoal canister on dealer in-stock vehicles.

Extra SC048 Campaign Completion Labels and/or Proof of Correction Cards are available at no cost through the KMA parts system or your DPSM.

## WARRANTY CLAIM INFORMATION:

Claim Type	Causal P/N	Qty.	Cond. Code	Cause Code	Repair Description	Labor OP Code	Time	Related Parts	Qty.
R	31150 2E300 31150 2E350	0	N99	C99	Fuel Tank Inspection	051022I0	0.3	UP050 SC048 UP051 SC048	1
					Fuel Tank & Canister (4WD) Fuel Tank & Canister (2WD)	051022R0 051022R1	1.7 (4WD) 1.5 (2WD)	Q3115 02E300Q Q3115 02E350Q Q3141 02E300Q	1
					Fuel Tank (4WD) Fuel Tank (2WD)	051022R2 051022R3	1.5 (4WD) 1.3 (2WD)		

To improve customer satisfaction always remember to refer to the Warranty Coverage Validations Inquiry Screen (Select 3) on your Kia Standard System (KSS) Dealer Main Menu for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.