



**HYUNDAI · KIA MOTORS**

January 12, 2006

Mr. Ronald Medford  
Acting Associate Administrator for Enforcement  
National Highway Traffic Safety Administration  
400 Seventh Street, S.W.  
Washington, D.C. 20590

RE: Recall Number 05V-450 Defect Information Report (additional information)  
(Hyundai Campaign 074)

Dear Mr. Medford:

Hyundai Motor Company previously submitted a Defect Information Report to NHTSA regarding a recall campaign of approximately 12,000 model year 2005 Hyundai Santa Fe vehicles produced beginning August 10, 2004 through November 5, 2004 (NHTSA Recall Number 05V-450) pursuant to Part 573 of Title 49 of the Code of Federal Regulations. The affected vehicle quantity has been revised to 11,914 vehicles. Dealers were notified of the recall on December 19, 2005 and owner notification was completed in one mailing beginning on December 21, 2005.

Enclosed for NHTSA's files are final copies of the Technical Service Bulletin, owner notification letter and dealer notification letters.

Sincerely,

Robert Babcock  
Manager, Certification and Compliance Issues

Attachments: 5

**HYUNDAI · KIA MOTORS**  
**Hyundai-Kia America Technical Center Inc.**  
6800 Geddes Road, Superior Township, MI 48198  
TEL : 734-337-9499 FAX : 734-337-3168  
www.hatci.com

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TO: ALL HYUNDAI DEALER PRINCIPALS, GENERAL MANAGERS AND SERVICE MANAGERS  
FROM: FRANK FERRARA, EXECUTIVE VICE PRESIDENT PARTS AND SERVICE  
SUBJECT: SANTA FE OCS CAMPAIGN

Today, Hyundai has notified NHTSA of our intent to recall approximately 12,000 2005 model year Santa Fe's to reprogram the OCS system. We do not yet have all the materials and information necessary to conduct this campaign, but are required to notify the National Highway Traffic Safety Administration (NHTSA) at this time. It is possible that NHTSA may immediately publish the information on their website and that information may very quickly be re-published in various media around the country. Please share the information in this DCS message with all individuals in your organization that may have customer contact.

2005 model year Hyundai Santa Fe vehicles are equipped with an Occupant Classification System (OCS) that meets the passenger advanced airbag suppression and activation requirements of Federal Motor Vehicle Safety Standard (FMVSS) 208. OCS suppression testing has indicated that during some seatings, certain small children may be misclassified as adults when seated in a position on the front edge of the seat. Hyundai will reprogram the OCS Electronic Control Unit (ECU) to replace the original algorithm with an updated version that provides an increased margin for recognizing certain small children.

(Note: intended range of recognition as certain small children - height range of 45 to 49 inches and weight range of 46.5 to 56.5 pounds)

We are currently waiting for the materials and information that are needed to perform the reprogramming. We anticipate having a Technical Service Bulletin in the dealerships by December 1. The campaign owner notifications will begin shortly after that time and will be completed with one mailing.

**WARNING:** Hyundai recommends that children must always be seated in the rear seat, properly wearing the seat belt, and Child Restraint Seats (CRS) must always be properly installed in the rear seat. Children must never be seated in the front seat and Child Restraint Seats must never be installed in the front seat. Should an accident occur and cause the right front airbags to inflate, it could cause severe injury or death for a child seated in the front seat or an infant or child seated in a CRS.

When the right front passenger airbags are activated (may inflate in an accident) the "PASSENGER AIR BAG OFF" light on the instrument panel is not illuminated. When a CRS or small child occupies the right front seat, the "PASSENGER AIR BAG OFF" light on the instrument panel must always be illuminated, indicating that the right front passenger airbags are disabled (may not inflate in an accident).

\*\*\*\*\*QUESTIONS AND ANSWERS\*\*\*\*\*

- Q. How many vehicles are affected?  
A. Approximately 12,000 model year 2005 Santa Fe vehicles manufactured from August 10, 2004 through November 5, 2004 are affected.
- Q. Why are these vehicles being recalled?

- A. 2005 model year Hyundai Santa Fe vehicles are equipped with an Occupant Classification System (OCS) that meets the passenger advanced airbag suppression and activation requirements of Federal Motor Vehicle Safety Standard (FMVSS) 208.

OCS suppression testing has indicated that during some seatings, certain small children may be misclassified as adults when seated in a position on the front edge of the seat.

(Note: intended range of recognition as certain small children - height range of 45 to 49 inches and weight range of 46.5 to 56.5 pounds)

Hyundai will reprogram the OCS Electronic Control Unit (ECU) to replace the original algorithm with an updated version that provides an increased margin for recognizing certain small children.

- Q. Can this condition result in an accident?  
A. No, it cannot cause an accident to occur, but the possibility of misclassification of a child as an adult may allow the right front airbag or side impact airbag to deploy in an accident and result in injury to the right front occupant.
- Q. Are there any precautions that I can take until the vehicle is repaired?  
A. Hyundai recommends that children must always be seated in the rear seat, properly wearing the seat belt, and Child Restraint Seats (CRS) must always be properly installed in the rear seat. Children must never be seated in the front seat and Child Restraint Seats must never be installed in the front seat. Should an accident occur and cause the right front airbags to inflate, it could cause severe injury or death for a child seated in the front seat or an infant or child seated in a CRS.

When the right front passenger airbags are activated (may inflate in an accident) the "PASSENGER AIR BAG OFF" light on the instrument panel is not illuminated. When a CRS or small child occupies the right front seat, the "PASSENGER AIR BAG OFF" light on the instrument panel must always be illuminated, indicating that the right front passenger airbags are disabled (may not inflate in an accident).

- Q. Have there been any reports of injuries as a result of this condition?  
A. No. Hyundai is not aware of any injuries as a result of this condition.
- Q. Have there been reports of accidents as a result of this condition?  
A. No. Hyundai is not aware of any accidents as a result of this condition.
- Q. What does the repair entail?  
A. Hyundai will reprogram the OCS Electronic Control Unit (ECU) to replace the original algorithm with an updated version that provides an increased margin for recognizing certain small children.

2005 model year Santa Fe vehicles manufactured after November 5, 2004 and 2006 model year Santa Fe vehicles contain the new OCS Electronic Control Unit (ECU) program and are therefore not affected by this campaign.

We urge you to call your Hyundai dealer to schedule an appointment to

have this work performed as soon as you receive the notification letter. Repair times will vary and depend on your dealer's appointment schedule.

Dealers will be notified by December 1, 2005.

It is anticipated that customer notification letters will be mailed in December 2005 after dealers have been supplied with the information needed to conduct this campaign.

Q. Is there any charge for the repair?

A. No, the repair is performed at no charge to the customer.

Q. Was this recall initiated by NHTSA?

A. This is a voluntary recall initiated by Hyundai, but it is being conducted in full accordance with NHTSA recall procedure requirements.

//END

//ALL        HMABSTQ5        12/16/05        12/19/05        12/20/05  
TO:            All Hyundai Dealership General Managers, Service Managers, Parts  
Managers, and Warranty Administrators  
FROM:        Hyundai Motor America  
SUBJECT:     Campaign 074 - 2005 MY Santa Fe - Occupant Classification System  
              (OCS) Updated Algorithm Reprogramming

Hyundai Motor America is conducting a Customer Notification Campaign to Reprogram the Occupant Classification System (OCS) with an Updated Algorithm on certain 2005 MY Santa Fe vehicles produced beginning on August 9, 2004 through November 5, 2004.

In certain situations, the Occupant Classification System (OCS) installed in the right front seat of certain 2005 Santa Fes may misclassify certain small children seated on the front edge of the seat as an adult.

This campaign provides a procedure to use the OCS reprogramming tool to reprogram the vehicle's OCS Electronic Control Unit (ECU) to provide an increased margin for recognition of certain small children.

In order to identify only those vehicles affected by Campaign 074, it will be necessary to access Hyundai Motor America's "Warranty Vehicle Information" screen via DCS Interactive or DCS On-line before the reprogramming of the OCS is started. The "Warranty Vehicle Information" screen will identify affected vehicles with an open Campaign 074. All in-stock vehicles, if any, must have Campaign 074 completed prior to retailing.

PLEASE NOTE: All Dealerships were provided with an OCS Reprogramming Tool free of charge for Campaign 073. The same tool will be used for Camp. 074. Additional OCS Reprogramming Tools can be ordered through your facing PDC. Additional OCS Reprogramming Tools will not be provided free of charge.

Enclosed with the Service Manager's letter are materials, which were developed for your use: Dealer Letter, five (5) copies of the Technical Service Bulletin (TSB#05-01-014) containing instructions on performing the service and submitting the campaign claim, and a VIN listing of both your dealer stock and your retail customers affected by this campaign. TSB #05-01-014 will be available on Hyundai's Website on December 19, 2005.

Customer notification letters will be mailed to all affected customers on December 21, 2005.

It is IMPORTANT TO SUBMIT A CAMPAIGN CLAIM FOR EACH VEHICLE SERVICED so your dealership can be compensated for your work and Hyundai can maintain accurate records of campaign completions.

LEGAL LIABILITY NOTICE: You are required to keep confidential any and all information and documents provided to you by Hyundai Motor America in the conduct of carrying out work for this service campaign. Hyundai Motor America dealers may use owner information provided for the campaign only for the purpose of conducting and performing this service campaign, and for no other purpose.

Hyundai appreciates your cooperation and support. Questions may be directed to your District Parts and Service Manager or Warranty HELPREP line at 1-800-435-7737, press #2.

HYUNDAI MOTOR AMERICA

# MOTOR VEHICLE RECALL

Dear 2005 Santa Fe Owner:

This notice is sent to you in accordance with the requirements of the National Traffic and Motor Vehicle Safety Act.

Federal law requires that any vehicle lessor receiving this recall notice must forward a copy of this notice to the lessee within ten days.

Hyundai has decided to conduct a motor vehicle safety recall of certain model year 2005 Hyundai Santa Fe vehicles that were produced during the period beginning on August 9, 2004 through November 5, 2004.

**WARNING: Hyundai recommends that children must always be seated in the rear seat, properly wearing the seat belt, and Child Restraint Seats (CRS) must always be properly installed in the rear seat. Children must never be seated in the front seat and Child Restraint Seats must never be installed in the front seat. Should an accident occur and cause the right front airbags to inflate, it could cause severe injury or death for a child seated in the front seat or an infant or child seated in a CRS.**

## What is the problem?

- In certain situations, the Occupant Classification System (OCS) installed in the right front seat of your vehicle may misclassify certain small children seated on the front edge of the seat as an adult. (Note: intended range of recognition as certain small children - height range of 45 to 49 inches and weight range of 46.5 to 56.5 pounds)

The possibility of misclassification of certain small children as an adult may allow the right front airbag to deploy in a frontal collision accident or the side impact airbag to deploy in a side collision accident.

When the right front passenger airbags are activated (may inflate in an accident) the "PASSENGER AIR BAG OFF" light on the instrument panel is not illuminated. When a CRS or small child occupies the right front seat, the "PASSENGER AIR BAG OFF" light on the instrument panel must always be illuminated, indicating that the right front passenger airbags are disabled (may not inflate in an accident).

## What will Hyundai do?

- To ensure that your vehicle's OCS will properly classify certain small children when seated on the front edge of the seat and will disable the right front airbags, we are asking you to schedule an appointment as soon as possible to take your vehicle to your Hyundai dealer. The Hyundai dealer will reprogram your vehicle's OCS Electronic Control Unit (ECU) to provide an increased margin for recognition of certain small children. This procedure will be performed at no charge to you. You should plan to leave your vehicle at your Hyundai dealer to have this service performed. Repair times will vary and depend on your dealer's appointment schedule.

# MOTOR VEHICLE RECALL

## **What should you do?**

- We urge you to call your Hyundai dealer to schedule an appointment to have this work performed as soon as possible.

## **What if you have other questions?**

- If you have any difficulty having this repair performed, we recommend that you call the Hyundai Customer Assistance Center at 1-800-633-5151. If you are still not satisfied that we have remedied this situation without charge, and within a reasonable amount of time, you may wish to write to the Administrator, National Highway Traffic Safety Administration, 400 Seventh Street, S. W., Washington, D.C. 20590, or call their toll-free Vehicle Safety Hotline at 1-888-327-4236 (TTY: 1-800-424-9153), or go to <http://www.safercar.gov>.

We urge your prompt attention to this important safety matter.

Hyundai Motor America

**December 19, 2005**

**TO: ALL HYUNDAI DEALER PRINCIPALS/GENERAL MANAGERS:  
ALL HYUNDAI DEALERSHIP SERVICE MANAGERS:  
ALL HYUNDAI DEALERSHIP PARTS MANAGERS:**

**Subject: Campaign 074 - 2005 MY Santa Fe - Occupant Classification System (OCS) Updated Algorithm Reprogramming**

Hyundai Motor America is conducting a Customer Notification Campaign to Reprogram the Occupant Classification System (OCS) with an Updated Algorithm on certain 2005 MY Santa Fe vehicles produced beginning on August 9, 2004 through November 5, 2004.

In certain situations, the Occupant Classification System (OCS) installed in the right front seat of certain 2005 Santa Fes may misclassify certain small children seated on the front edge of the seat as an adult.

This campaign provides a procedure to use the OCS reprogramming tool to reprogram the vehicle's OCS Electronic Control Unit (ECU) to provide an increased margin for recognition of certain small children.

In order to identify only those vehicles affected by Campaign 074, it will be necessary to access Hyundai Motor America's "Warranty Vehicle Information" screen via DCS Interactive or DCS On-line before the reprogramming of the OCS is started. The "Warranty Vehicle Information" screen will identify affected vehicles with an open Campaign 074. All in-stock vehicles, if any, must have Campaign 074 completed prior to retailing.

PLEASE NOTE: All Dealerships were provided with an OCS Reprogramming Tool free of charge for Campaign 073. The same tool will be used for Campaign 074. Additional OCS Reprogramming Tools can be ordered through your facing PDC. Additional OCS Reprogramming Tools will not be provided free of charge.

Enclosed with the Service Manager's letter are materials, which were developed for your use: Dealer Letter, five (5) copies of the Technical Service Bulletin (TSB#05-01-014) containing instructions on performing the service and submitting the campaign claim, and a VIN listing of both your dealer stock and your retail customers affected by this campaign. TSB #05-01-014 will be available on Hyundai's Website on December 19, 2005.

Customer notification letters will be mailed to all affected customers on December 21, 2005.

It is IMPORTANT TO SUBMIT A CAMPAIGN CLAIM FOR EACH VEHICLE SERVICED so your dealership can be compensated for your work and Hyundai can maintain accurate records of campaign completions.

LEGAL LIABILITY NOTICE: You are required to keep confidential any and all information and documents provided to you by Hyundai Motor America in the conduct of carrying out work for this service campaign. Hyundai Motor America dealers may use owner information provided for the campaign only for the purpose of conducting and performing this service campaign, and for no other purpose.

Hyundai appreciates your cooperation and support. Questions may be directed to your District Parts and Service Manager or Warranty HELP/REP line at 1-800-435-7737, press #2.

HYUNDAI MOTOR AMERICA





# HYUNDAI Technical Service Bulletin

Group	CAMPAIGN
Number	05-01-014
Date	NOVEMBER, 2005
Model	2005 SANTA FE

Subject  
**OCCUPANT CLASSIFICATION SYSTEM (OCS)  
 UPDATED ALGORITHM REPROGRAMMING -  
 CAMPAIGN 074**

<b>CIRCULATE TO:</b>	<input type="checkbox"/> GENERAL MANAGER	<input checked="" type="checkbox"/> PARTS MANAGER	<input checked="" type="checkbox"/> TECHNICIAN
<input checked="" type="checkbox"/> SERVICE ADVISOR	<input checked="" type="checkbox"/> SERVICE MANAGER	<input checked="" type="checkbox"/> WARRANTY MGR	<input type="checkbox"/> SALES MANAGER

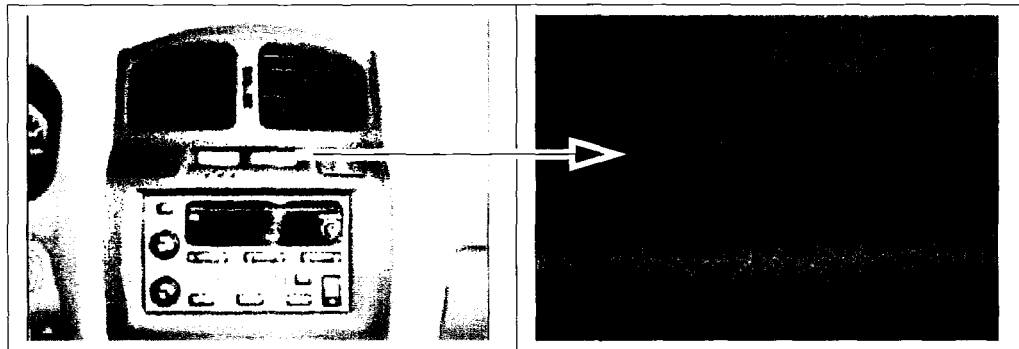
**IMPORTANT: DEALERS MUST PERFORM THIS CAMPAIGN ON ALL AFFECTED VEHICLES PRIOR TO CUSTOMER RETAIL DELIVERY AND WHENEVER AN AFFECTED VEHICLE IS IN THE SHOP FOR ANY MAINTENANCE OR REPAIR.**

**IMPORTANT: WHEN A VEHICLE ARRIVES AT THE SERVICE DEPARTMENT, ACCESS HYUNDAI MOTOR AMERICA'S "WARRANTY VEHICLE INFORMATION" SCREEN VIA DCS INTERACTIVE OR DCS ON-LINE TO IDENTIFY OPEN CAMPAIGNS.**

**DESCRIPTION:**

In certain situations, certain small children may be misclassified as adults when seated in a position on the front edge of the seat.

This bulletin provides the procedures to use the OCS reprogramming tool to reprogram the vehicle's OCS Electronic Control Unit (ECU). The reprogramming replaces the original algorithm with an updated version that provides an increased margin for recognizing certain small children.

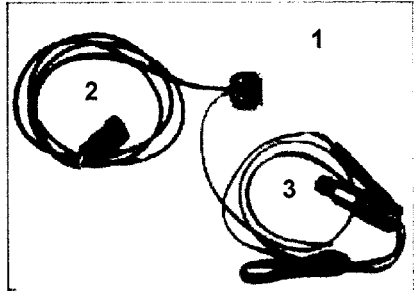


**VEHICLES AFFECTED:**

- Model: 2005 SANTA FE vehicles
- Affected vehicle production date range: August 9, 2004 through November 5, 2004

## TOOLS REQUIRED:

One initial OCS reprogramming tool has already been provided to your dealership free of charge to perform campaign 073, which is also being used for campaign 074. Replacement tools are available through your facing Parts Distribution Center (PDC) at a cost of \$299.00.

PART NAME	PART NUMBER	CONTENTS	PHOTO
OCS Reprogramming Tool	00305-CMP00-73	1. Reprogramming Box 2. OCS Cable 3. Power Adapter	

## SERVICE PROCEDURE:

### NOTE:

- Verify that the vehicle is affected by accessing Hyundai Motor America's "Warranty Vehicle Information" screen via DCS interactive or DCS on-line to identify an open 074 campaign on the vehicle.
- Be careful not to disconnect any cables connected to the vehicle or the tool during reprogramming.

1. Open the right front door.
2. Turn the ignition switch to the OFF position.

**CAUTION:** Do not turn the ignition switch to the "ON" position.

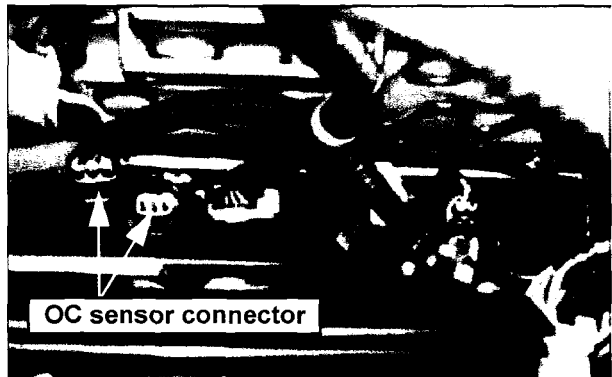
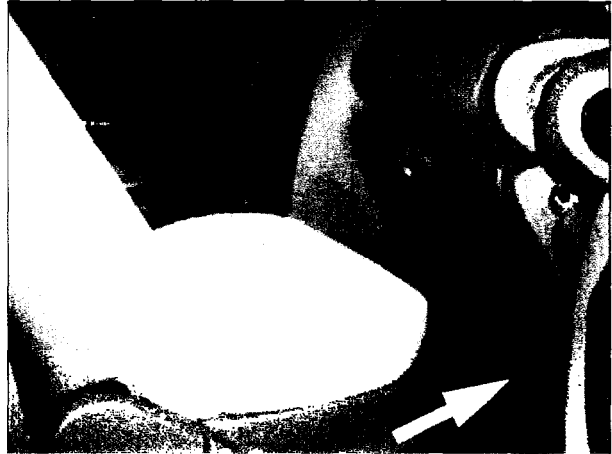


# HYUNDAI Technical Service Bulletin

Group	CAMPAIGN
Number	05-01-014

3. Locate the OCS 3-pin connector under the front passenger seat pan and unplug the OCS connector by pushing on the locking tab and pulling the connector housing.

**NOTE:** For easier access to the OCS connector, slide seat all the way to the front.

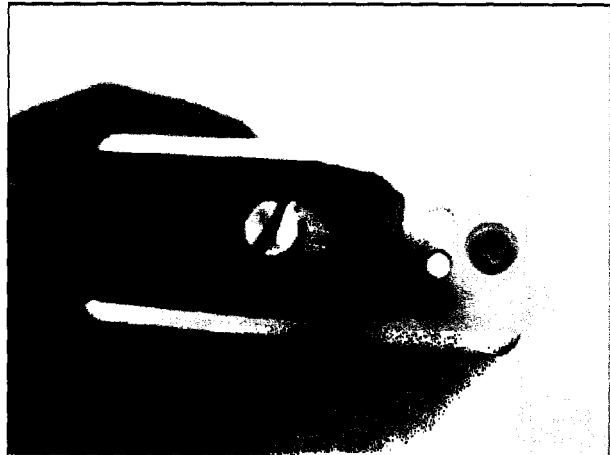


4. Connect the OCS cable to the vehicle's OCS connector under the front passenger seat.
5. Connect the power adapter to the cigarette lighter outlet.

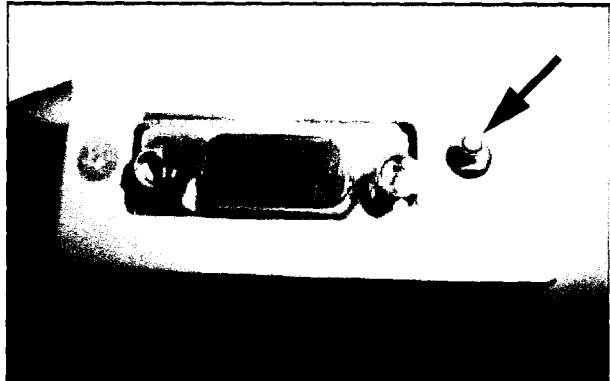


6. Turn the ignition switch to the "ACC" position. The LEDs on the reprogramming box will illuminate to verify that power is connected.

7. After the initialization phase (approximately 3 seconds), both LEDs - red and green - will be steadily illuminated, indicating that the box is ready to start the programming.

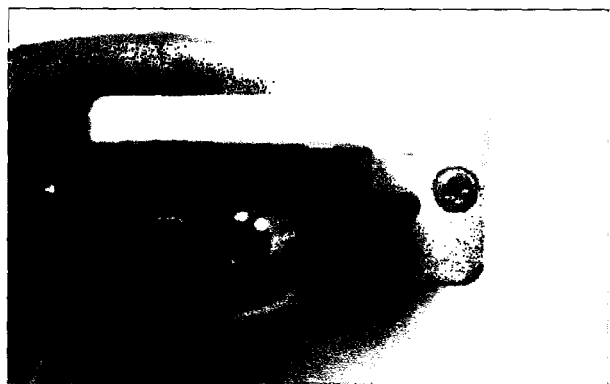


8. Press and release the black button on the back of the box to start the reprogramming.



9. The reprogramming takes approximately 1 minute. During this time, both LED lights will blink alternately and then steadily illuminate for approximately 5 seconds.

10. When the reprogramming is complete, the **GREEN** LED light will blink 4 times and then stay illuminated to indicate that the reprogramming has been successful.





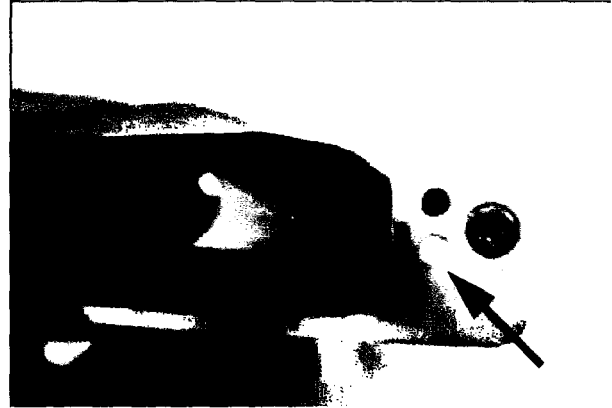
# HYUNDAI Technical Service Bulletin

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11. If the **RED** LED light blinks 4 times and then stays illuminated, the reprogramming was unsuccessful.

Check the following:

- Verify proper connection of the reprogramming tool cable to the vehicle's OCS connector.
- The power supply (voltage) at the cigarette lighter outlet may be too low.



Check the two conditions above. Disconnect the power adapter from the cigarette lighter outlet and reconnect to reset the reprogramming tool. Start the reprogramming procedure again beginning at Step #6.

12. Turn the ignition to the OFF position.
13. Disconnect the reprogramming tool.
14. Reconnect the OCS connector under the right front passenger seat.
15. Check for diagnostic codes (DTC) using the Hi-Scan Pro. Erase all trouble codes.

### CAMPAIGN CLAIM INFORMATION:

OP CODE	OPERATION	OP TIME
51B047R0	OCS Reprogramming	0.2 M/H

**NOTE:** Submit claim using the Campaign Claim Screen.