

# **HYUNDAI AMERICA TECHNICAL CENTER, INC.**

A Subsidiary of  
Hyundai Motor Company (Korea)

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Ann Arbor, MI 48106

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March 25, 2003

RECEIVED  
747-215  
2004 MAR 29 P 1:16  
OFFICE OF  
DEFECTS INVESTIGATION

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

RE: Recall Number 04V-131 Defect Information Report (additional information)  
(Hyundai Campaign 065)

Dear Mr. Weinstein:

Hyundai Motor Company previously submitted a Defect Information Report to NHTSA regarding a recall campaign of approximately 17,401 model year 2003 and 2004 Hyundai Santa Fe vehicles produced beginning September 3, 2002 through February 27, 2004 that are equipped with 3.5 liter V-6 engines, 4WD and ABS (NHTSA Recall Number 04V-131) pursuant to Part 573 of Title 49 of the Code of Federal Regulations. The ABS Electronic Control Units will be reprogrammed on these vehicles.

The owner notification for this recall will occur in one weekly mailing on March 24, 2004 and will be completed on March 24, 2004.

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

Sincerely,



Robert Babcock  
Manager, Corporate Affairs

Attachments: 4

//ALL            HMA8ST1P      03/08/2004      03/09/2004      03/10/2004  
TO:            All Hyundai Dealership Service and Parts Managers  
SUBJECT:      Recall Campaign 065 - 2003 and 2004 Santa Fe 3.5L ABS ECU  
Reprogramming

Hyundai Motor America is conducting a Recall Campaign on all 2003 and certain 2004 Model Year 3.5L Santa Fes with ABS and 4WD in order to reprogram the ABS Electronic Control Unit (ECU).

On 2003 and certain 2004 Model Year 3.5L Santa Fes that were manufactured prior to February 28, 2004, with ABS and 4WD, if the brake pedal is depressed at speeds between 3 and 12 mph when the brake pad friction surfaces are wet, a vibration may occur between the brake discs and pads, causing ABS sensor electronic signal noise to develop. At speeds below 5 mph, the ABS sensor signal noise may cause the ABS electronic control unit (ECU) to activate the ABS, extending the stopping distance.

In order to identify only those selected vehicles affected by Recall Campaign 065, it will be necessary to access Hyundai Motor America's "Warranty Vehicle Information" screen via DCS Interactive or DCS On-Line before an inspection/repair is started. The "Warranty Vehicle Information" screen will identify affected vehicles with an open Campaign of 065.

NOTE: All dealers must reprogram all affected vehicles in dealer inventory prior to retail delivery.

Technical Service Bulletin (TSB) #04-01-002 will be available on Hyundai's Website, [www.hmaservice.com](http://www.hmaservice.com), March 9, 2004. The TSB will provide the reprogramming procedure. In addition, the TSB will provide the claim submission procedure for dealer reimbursement. Reprogramming will take less than 0.3 M/H. No parts are required to conduct this recall.

The ABS ECU reprogramming software will be available on the website for downloading on March 9, 2004.

Owner notification letters will be mailed to all customers within the near future.

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

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 said campaign. Hyundai Motor America dealers may use such owner information for the sole purpose of conducting and performing this safety recall campaign, and for no other purpose.

If you have any questions, please contact your District Parts and Service Manager.

//END

//ALL           HMA8STXX      03/24/2004      03/25/2004      03/26/2004  
TO:            All Hyundai Dealership Service and Parts Managers  
SUBJECT:       Recall Campaign 065 - 2003 and 2004 Santa Fe 3.5L ABS ECU  
Reprogramming - Owner Notification Update

The following is an update to the DCS message sent to all Hyundai dealers on 3/8/04 regarding the launch of Campaign 065.

Customer Notification Letters for all affected vehicles for Campaign 065 will be mailed to customers on March 24, 2004.

Per the 3/8/04 DCS message sent to all dealers, the applicable Technical Service Bulletin (TSB) #04-01-002 is available on Hyundai's Website, [www.hmaservice.com](http://www.hmaservice.com). The TSB provides the reprogramming Procedure, as well as the claim submission procedure for dealer reimbursement. Reprogramming takes less than 0.3 M/H. No parts are required to conduct this recall.

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//END

//ALL           HMABSTXX   03/24/2004   03/25/2004   03/26/2004  
TO:            All Hyundai Dealership Service and Parts Managers  
FROM:          Ray Schroth - Director, Service  
SUBJECT:       Recall Campaign 065 - 2003 and 2004 Santa Fe 3.5L ABS ECU  
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//END

**March 8, 2004**

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

**REFERENCE: Campaign 065 – 2003 – 2004 Santa Fe HECU Reprogramming**

Hyundai Motor America is conducting a Recall Campaign on all 2003 and certain 2004 Model Year 3.5L Santa Fes with ABS and 4WD in order to reprogram the ABS Electronic Control Unit (ECU).

On 2003 and certain 2004 Model Year 3.5L Santa Fes that were manufactured prior to February 28, 2004, with ABS and 4WD, if the brake pedal is depressed at speeds between 3 and 12 mph when the brake pad friction surfaces are wet, a vibration may occur between the brake discs and pads, causing ABS sensor electronic signal noise to develop. At speeds below 5 mph, the ABS sensor signal noise may cause the ABS electronic control unit (ECU) to activate the ABS, extending the stopping distance.

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for said campaign. Hyundai Motor America dealers may use such owner information for the sole purpose of conducting and performing this safety recall campaign, and for no other purpose.

Hyundai appreciates your cooperation in properly completing this campaign. Questions may be directed to your District Parts and Service Manager.

Sincerely,

Ray Schroth  
Director, Service

Enclosures:



# HYUNDAI Technical Service Bulletin

Subject <b>HYDRAULIC ELECTRONIC CONTROL UNIT (HECU) REPROGRAMMING - CAMPAIGN 065</b>	Group	CAMPAIGN
	Number	04-01-002
	Date	MARCH, 2004
	Model	SANTA FE 3.5L 4WD

**IMPORTANT: DEALERS MUST PERFORM THIS RECALL 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.**

## **AFFECTED VEHICLES:**

2003 and 2004 MY Santa Fe vehicles produced through February 27, 2004 that are equipped with 3.5L V6 engines, 4 Wheel Drive and Antilock Brake Systems (ABS).

## **DESCRIPTION:**

If the brake pedal is depressed at speeds between 3 and 12 mph when the brake pad friction surfaces are wet, a vibration may occur between the brake discs and pads, causing ABS sensor electronic signal noise to develop. At speeds below 5 mph, the ABS sensor signal noise may cause the ABS electronic control unit (ECU) to activate the ABS, extending the stopping distance.

To correct this condition, reprogram the Hydraulic Electronic Control Unit (HECU) of all affected vehicles with new logic using the HI-Scan Pro by following the procedure described in this bulletin.

## **Hydraulic Electronic Control Unit (HECU) Specification Table:**

MODEL	HECU PART NUMBER	HECU ID	
		PREVIOUS	NEW
Santa Fe 3.5L 4WD	58900-26350	434EAG1E10	43EAH1E10

### **CAUTIONS BEFORE REPROGRAMMING:**

1. Conduct reprogramming with the ignition key in the "ON" position.
2. Be careful not to disconnect any cables connected to the vehicle or Hi-Scan Pro during reprogramming.

**WARNING:** If reprogramming is interrupted, the manual update procedure must be used.

3. Do not start the engine during reprogramming.
4. Do not turn the ignition key OFF during reprogramming.
5. When the reprogramming is completed, turn OFF the ignition key for 20 seconds before starting the engine.

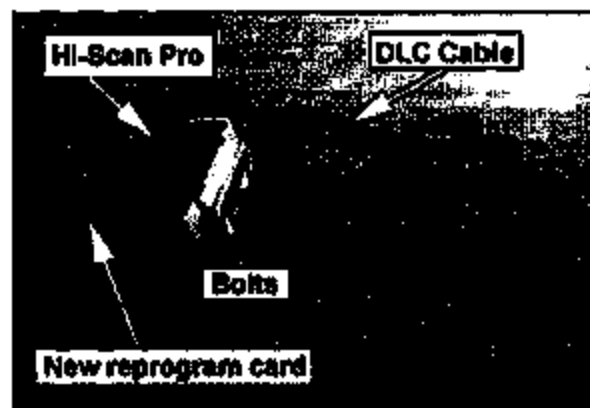
### **HECU REPROGRAMMING PROCEDURE:**

#### **AUTOMATIC UPDATE PROCEDURE:**

**NOTE:** Leave the ignition key in the "OFF" position before starting the following procedure.

1. Attach the Data Link Connector (DLC) cable to the Hi-Scan Pro main body and securely tighten two bolts.
2. Remove the system software card from the Hi-Scan Pro and insert the reprogramming software card.

**NOTE:** Downloading of the new software is available through [HMAService.com](http://HMAService.com) HI-Scan update link.







# HYUNDAI Technical Service Bulletin

Group

CAMPAIGN

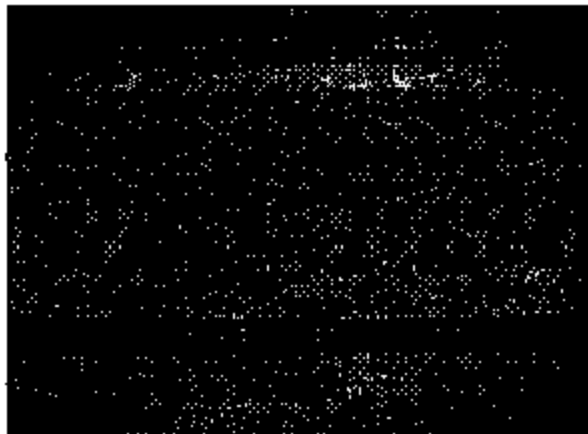
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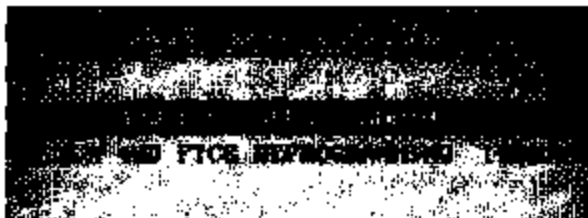
3. Plug the DLC cable into the 16 pin data link connector.
4. Turn the ignition switch to the "ON" position (do not start the engine).
5. Turn the Hi-Scan pro **ON** and press **ENTER**.



6. Select option **"39. SM 3.5D 4WD FTCS REPROGRAMMING"** and press **ENTER**.



7. Select option **"01. 3.5 AWD FTCS REPROGRAMMING [AUTO]"** and press **ENTER**.

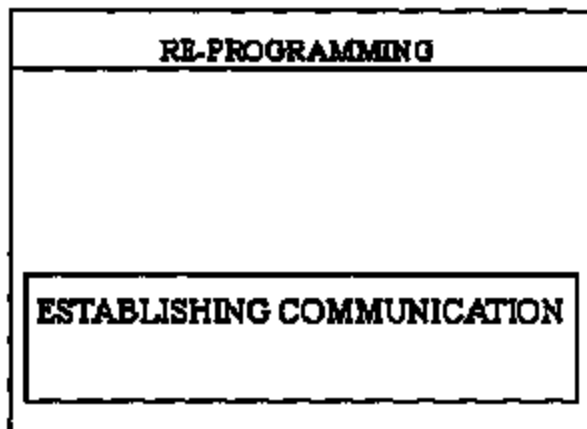


8. Enter **"1229"** as the password for automatic reprogramming mode and press **ENTER**.



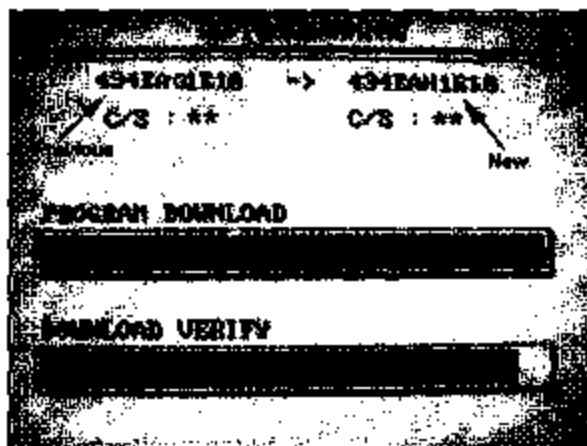
9. Turn the Ignition key OFF and ON as instructed.

10. The HI-Scan Pro will establish communication.



**NOTES:**

- The HI-Scan Pro detects the current HECU ID, assigns the new HECU ID and displaces them on the HI-Scan Pro screen as shown.
- Check the HECU IDs displayed on the HI-Scan Pro to verify that the correct HECU software is being downloaded according to the HECU Specification Table on page 1 of this bulletin.
- If the HI-Scan Pro does not download the program, use the Manual Update Procedure following this section.





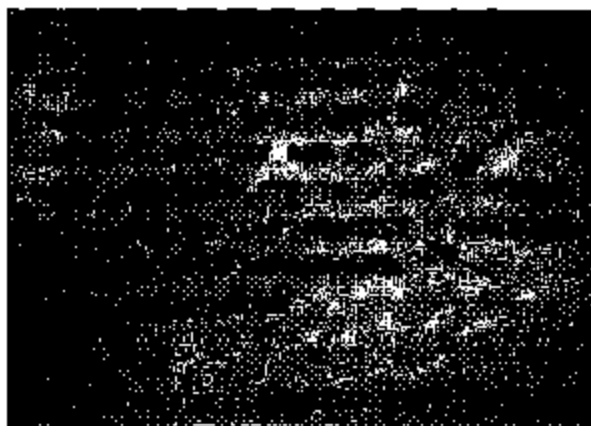
# HYUNDAI Technical Service Bulletin

Group	CAMPAIGN
Number	04-01-002

## WARNINGS:

- Do not interrupt the reprogramming at any time.
- The HECU will be rendered inoperative if the program does not download completely.

11. When the "REPROGRAMMING COMPLETED" message is displayed, turn the Ignition key OFF and ON and check the ABS warning lamp for proper operation.



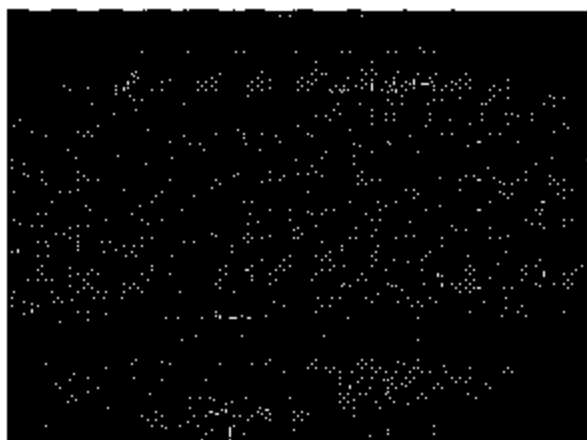
12. When the reprogramming is completed successfully, turn the Hi-Scan Pro OFF and the ignition key to the "OFF" position for 20 seconds.
13. Remove the reprogramming software card from the HI-Scan Pro.
14. Install the system software card in the HI-Scan Pro and check and erase any trouble codes found.

## MANUAL UPDATE PROCEDURE:

### NOTES:

- In the event that "01. 3.5L 4WD FTCS REPROGRAMMING [AUTO]" fails to download the new ABS ECU program, option "02. 3.5L 4WD FTCS REPROGRAMMING [ERROR]" must be used.
- Confirm all connections are established as shown in the "AUTOMATIC UPDATE PROCEDURE" before continuing.

1. Turn the Ignition switch to the "ON" position (do not start the engine).
2. Turn the Hi-Scan Pro ON and press ENTER.
3. Select option "39. SM 3.5D 4WD FTCS REPROGRAMMING" and press ENTER.



4. Select option "02. 3.5D 4WD FTCS REPROGRAMMING [ERROR]" and press ENTER.

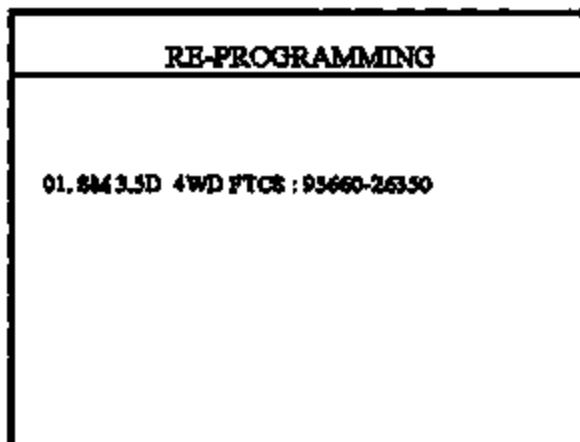
RE-PROGRAMMING
01. 3.5D 4WD FTCS REPROGRAMMING[AUTO]
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5. Select option "01.8M 3.5D 4WD FTCS: 95660-26350" and press ENTER.

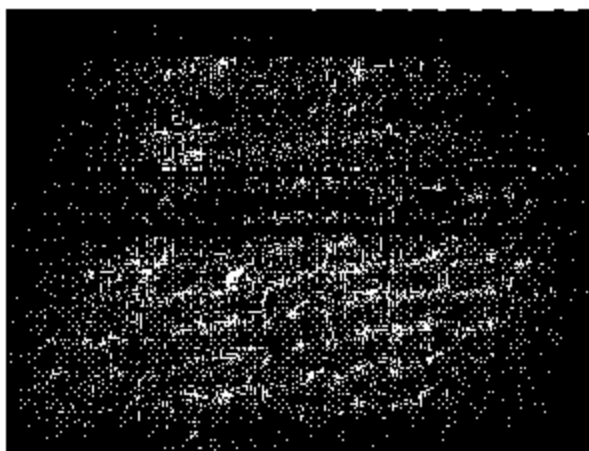


6. Enter "6350" as the password for Manual Update Mode and press ENTER.

**WARNING:**

- Be sure to input the correct password.
- If an incorrect password is selected, the correct HECU software will not be downloaded.

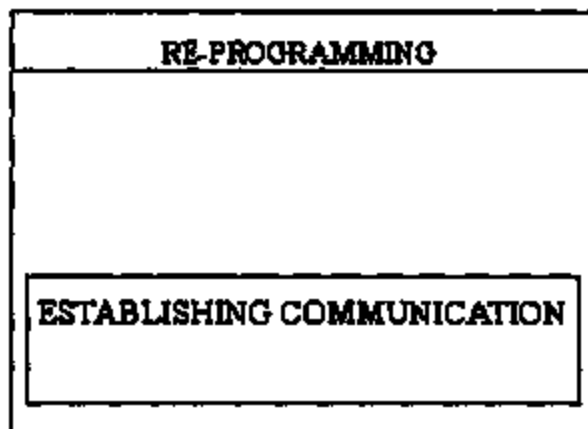
7. Turn the Ignition key OFF and ON as instructed.



8. The Hi-Scan Pro will establish communication.

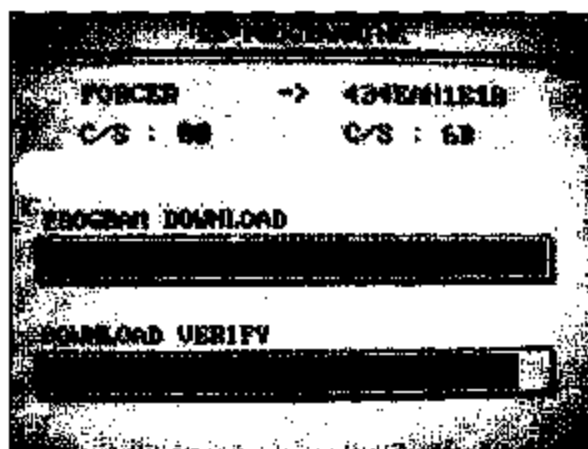
**WARNINGS:**

- Do not interrupt the reprogramming at any time.
- The HECU will be rendered inoperative if the program does not download completely.



**NOTES:**

- The Hi-Scan Pro displays the new HECU ID on the screen as shown.
- Check the HECU IDs displayed on the Hi-Scan Pro to verify that the correct HECU software is being downloaded according to the HECU Specification Table on page 1 of this bulletin.





# HYUNDAI Technical Service Bulletin

Group

CAMPAIGN

Number

04-01-002

9. When the "REPROGRAMMING COMPLETED" message is displayed, turn the Ignition key OFF and ON and check the ABS warning lamp for proper operation.
10. When the reprogramming is completed successfully, turn the Hi-Scan Pro OFF and the ignition key to the "OFF" position for 20 seconds.
11. Remove the reprogramming software card from the Hi-Scan Pro.
12. Install the system software card into the Hi-Scan Pro and check and erase any trouble codes found.

## RE-PROGRAMMING

REPROGRAMMING COMPLETED !  
PLEASE FOLLOW THE DIRECTION.  
AFTER IG KEY OFF AND ON,  
\*ABS LAMP ON & OFF IN 3 SEC : NORMAL  
\*ABS LAMP ON CONTINUOUSLY ;  
ABNORMAL

## EXPLANATION OF ERROR MESSAGE:

1. "INVALID PASSWORD": Please enter the exact password again.
2. "REPROGRAMMING ERROR, PLEASE WAIT FOR RETRY": An error occurred during reprogramming, the Hi-Scan Pro will retry the reprogramming automatically.
3. "ALREADY REPROGRAMMED" or "INCORRECT TARGET ID": This reprogramming has previously been done on this vehicle or the ECM/TCM is not the type subject for this reprogramming procedure.
4. "REPROGRAM ERROR, PLEASE CHECK THE SYSTEM": In this case, you must reprogram manually after selecting the menu option "02 3.5D 4WD FTCS REPROGRAMMING [ERROR]".

## CAMPAIGN CLAIM INFORMATION:

OP CODE	OPERATION	OP TIME
41B007R0	HECU Reprogramming	0.3 M/H

Submit claim using Campaign Claim Screen.

## **MOTOR VEHICLE RECALL**

**Dear 2003 and 2004 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 that a defect, which relates to motor vehicle safety, exists in 2003 and certain 2004 model year Santa Fe vehicles produced through February 27, 2004 that are equipped with 3.5 liter V-6 engines, 4 wheel drive, and antilock brake systems (ABS).

### **What is the problem?**

- If the brake pedal is depressed at speeds between 3 and 12 mph when the brake pad friction surfaces are wet, a vibration may occur between the brake discs and pads, causing ABS sensor electronic signal noise to develop. At speeds below 5 mph, the ABS sensor signal noise may cause the ABS electronic control unit (ECU) to activate the ABS, extending the stopping distance.

If an extended stopping distance occurs at speeds below 5 mph, it may result in a crash.

### **What will Hyundai do?**

- To ensure that your vehicle does not experience extended stopping distance at speeds below 5 mph as a result of inadvertent ABS activation, 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 ABS ECU. 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.

### **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.

Until then, if you wish to prevent the possibility of ABS operation at speeds below 5 mph prior to receiving the ABS ECU reprogramming service, you may remove the ABS fuse located in the underhood fuse and relay box. Please refer to your owner's manual. Removing the ABS fuse will prevent ABS system operation and will cause the ABS warning light to illuminate, but will not affect normal brake operation.

### **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 Auto Safety Hotline at 1-888-327-4236.

We urge your prompt attention to this important safety matter.

Hyundai Motor America