

# HYUNDAI



UNLOCKING  
TECHNOLOGY



**ADVANCED  
DIAGNOSTICS**



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# APPLICATIONS



# A

## HYUNDAI (ADS118)









				1234		PRO 		AD100 
ACCENT	ALL	✓	✓	✓	✓	ADC151	A	ADC110-B
AMICA	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
ATOS	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
AZERA	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
CENTENNIAL	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
COUPE	ALL	✓	✓	✓	✓	ADC151	A	ADC110-B
ELANTRA	ALL	✓	✓	✓	✓	ADC151	A	ADC110-B
EXCEL	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
GALLOPER II	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
GETZ	ALL	✓	✓	✓	✓	ADC151	A	ADC110-B
GK	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
GRANDEUR	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
H-1	ALL	✓	✓	✓	✓	ADC151	A	ADC110-B
H-1 TRUCK	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
H-100	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
H-100 TRUCK	ALL	✓	✓	✓	✓	ADC151	A	ADC110-B
HD COUPE	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
MARCIA	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
MATRIX	ALL	✓	✓	✓	✓	ADC151	A	ADC110-B
S COUPE	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
SANTA FE	ALL	✓	✓	✓	✓	ADC151	A	ADC110-B
SANTAMO	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
SONATA	ALL	✓	✓	✓	✓	ADC151	A	ADC110-B
TAXI	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
TERRACAN	ALL	✓	✓	✓	✓	ADC151	A	ADC110-B
TIBURON	ALL	✓	×	✓	✓	ADC151	A	ADC110-B
TRAJET XG	ALL	✓	✓	✓	✓	ADC151	A	ADC110-B
TUCSON	ALL	✓	✓	✓	✓	ADC151	A	ADC110-B
XG 25	ALL	✓	✓	✓	✓	ADC151	A	ADC110-B
XG 30	ALL	✓	✓	✓	✓	ADC151	A	ADC110-B



# A

## APPLICATIONS

### HYUNDAI USA (ADS118)

				1234		PRO 		AD100 
TIBURON	2004 ⇒	✓	×	✓	✓	ADC151	A	ADC110-B
AZERA	2005 ⇒	✓	×	✓	✓	ADC151	A	ADC110-B
SPORTAGE	2005 ⇒	✓	×	✓	✓	ADC151	A	ADC110-B
XG300	2004 ⇒	✓	×	✓	✓	ADC151	A	ADC110-B
XG350	2004 ⇒	✓	×	✓	✓	ADC151	A	ADC110-B

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# APPLICATIONS



# A

## HYUNDAI CAN & REMOTES (ADS148)

				1234		PRO 		AD100 
ACCENT	2003 ⇨ 2005		✓*			ADC151	A	ADC110-B
ELANTRA	2001 ⇨ 2006		✓*			ADC151	A	ADC110-B
GETZ	2003 ⇨ 2005		✓*			ADC151	A	ADC110-B
H-1	2002		✓*			ADC151	A	ADC110-B
H-1 TRUCK	2002		x*			ADC151	A	ADC110-B
I10 (CAN) *	2008 ⇨	✓	✓	✓	@	ADC151	A	*
I20 (CAN) *	2008 ⇨	✓	✓	✓	@	ADC151	A	*
I30 (CAN) *	2008 ⇨	✓	✓	✓	@	ADC151	A	*
IX35 (PROX) *	2010 ⇨	✓	✓	✓	@	ADC151	A	*
MATRIX	2002 ⇨ 2006		✓*			ADC151	A	ADC110-B
SANTA FE	2001 ⇨ 2006		✓*			ADC151	A	ADC110-B
SANTA FE (CAN)	2006 ⇨	✓	✓	✓	@	ADC151	A	ADC110-B
SONATA	1999 ⇨ 2004		✓*			ADC151	A	ADC110-B
TERRACAN	2001 ⇨ 2006		✓*			ADC151	A	ADC110-B
TRAJET XG	2001 ⇨ 2006		✓*			ADC151	A	ADC110-B
TUSCON (CAN)	2009	✓	✓	✓	@	ADC151	A	ADC110-B
VERACRUZ (CAN)	2007	✓	✓	✓	@	ADC151	A	ADC110-B
XG 25	1999 ⇨ 2005		✓*			ADC151	A	ADC110-B
XG 30 *	1999 ⇨ 2005		✓*			ADC151	A	ADC110-B

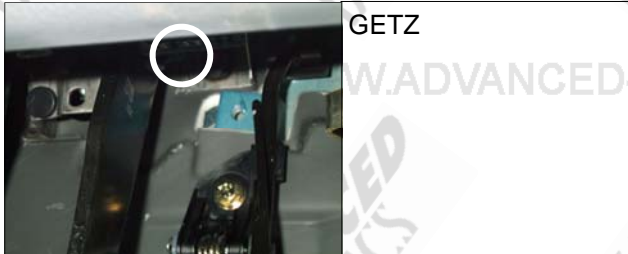
\* Pro Only

# DIAGNOSTIC SOCKETS/PORTS



# B

## HYUNDAI



GETZ



SANTA FE



COUPE 2001



SONATA



TRAJET



ACCENT



AMICA



ACCENT



ELANTRA



COUPE 2



NEW ACCENT



i20



# B

# DIAGNOSTIC SOCKETS/PORTS

## HYUNDAI



SONATA (CAN)



i10



TUSCON

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# SPECIAL FUNCTIONS

## PIN CODES

Pin codes for Hyundai are either 4, 5 or 6 digits and can be obtained as follows:

### Fixed Pin Code

4 digit pin code, which is 2345. Note: the pin code can be changed on the vehicle via the diagnostic equipment.

### Early Hyundai (upto approx 2006)

#### 5 Digit

This uses the last 5 digits of the VIN number into the security code. Also refer to **TIPS & HINTS** section

#### 6 Digit

This can be obtained using the Kia/Hyundai pin code convertor software ADS132, which converts the last 6 digits of the VIN number into the security code.

### Late Hyundai (2007 >)

The pin code for these vehicles needs to be obtained either from the dealer, via the pin code service on the Advanced Diagnostics website or by using ADC190 Pin Code dongle.

NOTE: Dependant on the vehicle build, means some vehicles after 2007 could possibly use the pin code derived from the 6 digits of the VIN, using ADS132 software.



### ADS132 6 Digit VIN to PIN - Hyundai <2006

**VEHICLE SELECTION**

- + HYUNDAI
- + INFINITI
- + ISUZU
- + IVECO
- + JAGUAR
- + JEEP

Enter the last 6 digits of the VIN.

**VIN TO PINCODE**

PIN: 350967

**PRESS ENTER KEY**

**VEHICLE SELECTION**

- + AUS
- + EURO
- + USA/CANADA
- + PINCODE CONVERTOR

**ENTER VIN**

1	2	3	4	5
6	7	8	9	0

Record this pin number for programming keys.

**VEHICLE SELECTION**

- + 6 DIGIT VIN-PIN
- + ADC190 VIN-PIN 07>

**ENTER VIN**

1 2 3 4 5 6

**x** **✓**

**Finished**

**PIN CODE CONVERTOR**

**PRESS ENTER KEY**

**VIN TO PINCODE**

**PLEASE WAIT**

.....





# SPECIAL FUNCTIONS



## ADC190 VIN to PIN Converter - Hyundai 2007>

**VEHICLE SELECTION**

- + HYUNDAI
- + INFINITI
- + ISUZU
- + IVECO
- + JAGUAR
- + JEEP

Enter the complete 17 digits of the VIN number.

HYUNDAI KIA PINCODE

VIN: KMHJN81BR9U123999  
 PIN: 503346

PLEASE TURN OFF

**VEHICLE SELECTION**

- + AUS
- + EURO
- + USA/CANADA
- + PINCODE CONVERTOR

HYUNDAI KIA PINCODE

-----

1	2	3	4	5
6	7	8	9	0

Record this pin number for programming keys.

**VEHICLE SELECTION**

- + 6 DIGIT VIN-PIN
- + ADC190 VIN-PIN 07>

HYUNDAI KIA PINCODE

KMHJN81BR9U123999

x

✓

**Finished**

PIN CODE CONVERTOR

PRESS ENTER KEY

HYUNDAI KIA PINCODE

PLEASE WAIT

.....

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## UPDATING ADC190

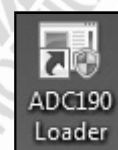
The ADC190 will need updating periodically as more vehicles are produced and therefore more VIN numbers are also introduced.

To update the ADC190, please follow the instructions below:

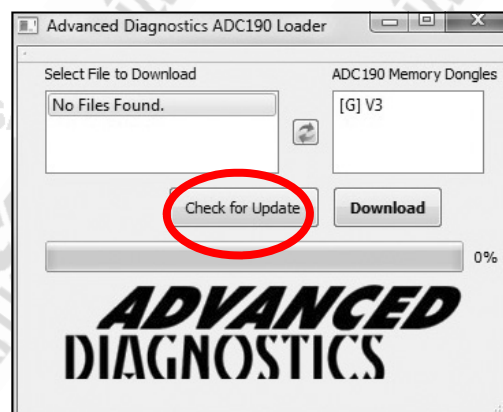
Install the ADC190 loader program from the **DOWNLOADS** section of the Advanced Diagnostics website.

### Update Procedure

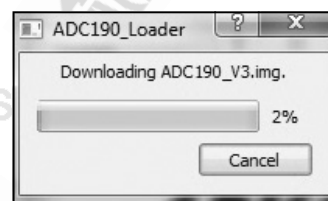
1. Connect the ADC190 dongle to the PC via a USB cable. Note: For the first time allow the driver to automatically install.
2. Open the ADC190 program by double clicking the icon on your desktop.



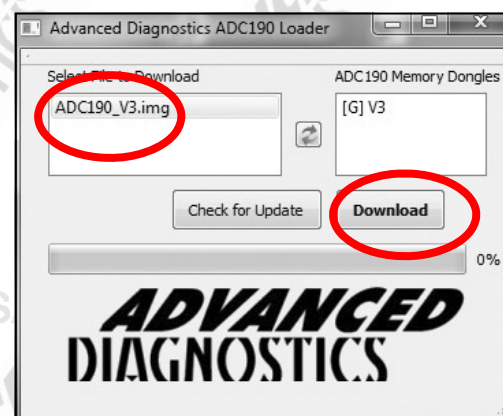
3. The following screen box will be displayed.



4. Click the **Check For Update** button to download the latest software.



5. When completed the latest file will be displayed.



6. Click the **DOWNLOAD** button.

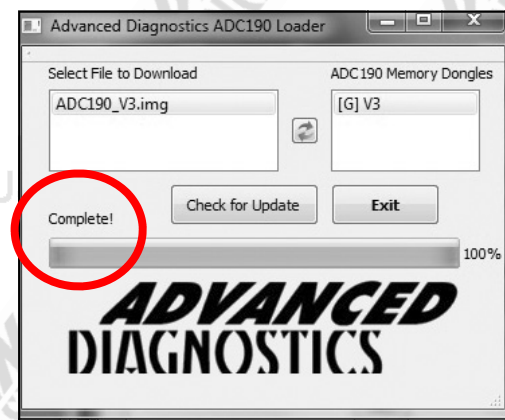
# SPECIAL FUNCTIONS



7. The latest file will be downloaded.



10. The process is completed when indicated.



11. Click EXIT on the program.

12. The ADC190 has now been update with the latest data and is ready to use.  
NOTE: There may be a delay between the very latest vehicles to roll off the production line and information being available to download. This will be kept to as minimal as possible.



# SPECIAL FUNCTIONS

## SMARTRA 6 DIGIT SYSTEM

### KEY PROGRAMMING

#### VEHICLE SELECTION

- + HYUNDAI
- + INFINITI
- + ISUZU
- + IVECO
- + JAGUAR
- + JEEP

#### VEHICLE SELECTION

- + PETROL
- + DIESEL

#### KEYS PROGRAMMED

KEYS: 2  
 ECU STATUS: LEARNT  
 KEY STATUS: VIRGIN

PRESS ENTER KEY

#### VEHICLE SELECTION

- + EURO
- + USA
- + MIDDLE EAST

#### VEHICLE SELECTION

- + TYPE 1
- + TYPE 2
- + TYPE 3

#### DIAGNOSTIC MENU

KEYS PROGRAMMED  
 > PROGRAM KEYS  
 LIMP HOME MODE  
 NEUTRALISE

#### VEHICLE SELECTION

- + IMMOBILISER
- + REMOTE FUNCTIONS
- + PINCODE

SWITCH IGNITION ON

PRESS ENTER KEY

ENTER THE SECURITY CODE.  
 REFER TO PIN CODE SECTION. TO  
 CONVERT THE LAST 6 DIGITS OF  
 THE VIN NUMBER.

**NOTE:**  
 ALL GETZ WILL BE A 6 DIGIT PIN  
 CODE

#### VEHICLE SELECTION

- + BY VEHICLE
- + BY SYSTEM

#### ECU IDENTIFICATION

HYUNDAI 2

PRESS ENTER KEY

#### SECURITY CODE

1	2	3	4	5
6	7	8	9	0

#### VEHICLE SELECTION

- + GETZ
- + GALLOPER 11
- + GRANDEUR
- + HD COUPE
- + I10
- + I30

#### DIAGNOSTIC MENU

ECU IDENTIFICATION  
 SPECIAL FUNCTIONS

www.adusa.us

#### SECURITY CODE

1 2 3 4 5 6

x



#### VEHICLE SELECTION

- + 03 - 06

#### DIAGNOSTIC MENU

> KEYS PROGRAMMED  
 PROGRAM KEYS  
 LIMP HOME MODE  
 NEUTRALISE

#### PROGRAM KEYS

SWITCH IGNITION ON  
 AND THEN PRESS ENTER



# SPECIAL FUNCTIONS

## SMARTRA 6 DIGIT SYSTEM

### PROGRAM KEYS

BACK' TO EXIT  
ENTER' TO PROGRAM  
NEXT KEY

### KEYS PROGRAMMED

KEYS: 2  
ECU STATUS: LEARNT  
KEY STATUS: LEARNT

PRESS ENTER KEY

### PROGRAM KEYS

INSERT NEXT KEY  
AND THEN PRESS ENTER

Finished

### PROGRAM KEYS

SWITCH IGNITION ON  
AND THEN PRESS ENTER

### PROGRAM KEYS

BACK' TO EXIT  
ENTER' TO PROGRAM  
NEXT KEY

REPEAT FOR ALL KEYS TO BE  
PROGRAMMED.  
WHEN PROGRAMMING  
COMPLETED PRESS **BACK** TO EXIT.

### PROGRAM KEYS

PROCEDURE COMPLETE

PRESS ENTER KEY



# SPECIAL FUNCTIONS

## HYUNDAI CAN

### KEY PROGRAMMING

#### VEHICLE SELECTION

- + HYUNDAI
- + INFINITI
- + ISUZU
- + IVECO
- + JAGUAR
- + JEEP

#### ECU IDENTIFICATION

HYUNDAI CAN

PRESS ENTER KEY

#### KEY PROGRAMMING

KEY PROGRAMMED  
BACK' TO EXIT  
ENTER' TO PROGRAM  
NEXT KEY

#### VEHICLE SELECTION

- + EURO
- + USA
- + MIDDLE EAST

#### DIAGNOSTIC MENU

- ECU IDENTIFICATION
- LIVE DATA
- SPECIAL FUNCTIONS**

#### KEY PROGRAMMING

REMOVE KEY FROM IGN.  
THEN INSERT NEXT KEY  
IGNTION ON

PRESS ENTER KEY

#### VEHICLE SELECTION

- + IMMOBILISER
- + REMOTE FUNCTIONS
- + PROXIMITY
- + PINCODE

#### DIAGNOSTIC MENU

- > KEYS PROGRAMMING
- NEUTRAL MODE

REPEAT FOR ALL KEYS TO BE PROGRAMMED.  
WHEN PROGRAMMING COMPLETED PRESS BACK TO EXIT.

#### VEHICLE SELECTION

- + BY VEHICLE
- + BY SYSTEM

ENTER THE SECURITY CODE.  
REFER TO PIN CODE SECTION.  
THIS CAN BE OBTAINED FROM THE AD WEBSITE.

**NOTE:**  
ALL CAN VEHICLES WILL BE A 6  
DIGIT PIN CODE

#### KEY PROGRAMMING

KEY PROGRAMMED  
BACK' TO EXIT  
ENTER' TO PROGRAM  
NEXT KEY

#### VEHICLE SELECTION

- + ACCENT
- + AZERA
- + ELANTRA
- + ENTOURAGE
- + GENESIS
- + SANTA FE

#### SECURITY CODE

-----

1	2	3	4	5
6	7	8	9	0

#### KEY PROGRAMMING

PROCEDURE COMPLETE

PRESS ENTER KEY

SWITCH IGNITION ON

PRESS ENTER KEY

#### SECURITY CODE

1 2 3 4 5 6



**Finished**



# SPECIAL FUNCTIONS

## HYUNDAI PROXIMITY

### KEY PROGRAMMING

#### VEHICLE SELECTION

- + HYUNDAI
- + INFINITI
- + ISUZU
- + IVECO
- + JAGUAR
- + JEEP

SWITCH IGNITION OFF  
SWITCH HAZARDS ON

PRESS ENTER KEY

#### CLEAR KEYS

WARNING  
ALL KEYS WILL BE  
CLEARED  
CONTINUE



#### VEHICLE SELECTION

- + EURO
- + USA
- + MIDDLE EAST

#### ECU IDENTIFICATION

HYUNDAI PROX

PRESS ENTER KEY

#### CLEAR/PROGRAM PROX

SWITCH IGNITION OFF  
INSERT KEY

PRESS ENTER KEY

#### VEHICLE SELECTION

- + IMMOBILISER
- + REMOTE FUNCTIONS
- + PROXIMITY
- + PINCODE

#### DIAGNOSTIC MENU

- ECU IDENTIFICATION
- SPECIAL FUNCTIONS

ENTER THE SECURITY CODE.  
REFER TO PIN CODE SECTION.

**NOTE:**  
ALL CAN VEHICLES WILL BE A 6  
DIGIT PIN CODE

#### VEHICLE SELECTION

- + BY VEHICLE
- + BY SYSTEM

#### DIAGNOSTIC MENU

- > KEYS PROGRAMMED
- CLEAR/PROGRAM PROX

#### SECURITY CODE

-----

1	2	3	4	5
6	7	8	9	0

#### VEHICLE SELECTION

- + GENESIS
- + VERACRUZ

#### KEYS PROGRAMMED

KEYS: 2

PRESS ENTER KEY

#### SECURITY CODE

1 2 3 4 5 6



#### VEHICLE SELECTION

- + COUPE
- + SEDAN

#### DIAGNOSTIC MENU

- KEYS PROGRAMMED
- > CLEAR/PROGRAM PROX

#### PROGRAM KEYS

BACK' TO EXIT  
ENTER' TO PROGRAM  
NEXT KEY



# SPECIAL FUNCTIONS

## HYUNDAI PROXIMITY

### KEY PROGRAMMING

**CLEAR/PROGRAM PROX**

INSERT NEXT PROX KEY  
IGNITION OFF  
AND THEN PRESS ENTER

REPEAT FOR ALL KEYS TO BE  
PROGRAMMED.  
WHEN PROGRAMMING  
COMPLETED PRESS **BACK** TO EXIT.

### PROGRAM KEYS

**BACK**' TO EXIT  
**ENTER**' TO PROGRAM  
NEXT KEY

### KEY PROGRAMMING

PROCEDURE COMPLETE

**PRESS ENTER KEY**

**Finished**





# SPECIAL FUNCTIONS

## HYUNDAI PROXIMITY - iX35

### KEY PROGRAMMING

#### VEHICLE SELECTION

- + HYUNDAI
- + INFINITI
- + ISUZU
- + IVECO
- + JAGUAR
- + JEEP

SWITCH IGNITION OFF

PRESS ENTER KEY

#### DIAGNOSTIC MENU

KEYS PROGRAMMED  
 > PROGRAM PROX KEY

#### VEHICLE SELECTION

- + EURO
- + USA
- + MIDDLE EAST

#### ECU IDENTIFICATION

HYUNDAI PROX

PRESS ENTER KEY

#### CLEAR KEYS

WARNING  
 ALL KEYS WILL BE  
 CLEARED  
 CONTINUE



#### VEHICLE SELECTION

- + IMMOBILISER
- + REMOTE FUNCTIONS
- + PROXIMITY
- + PINCODE

#### DIAGNOSTIC MENU

ECU IDENTIFICATION  
 SPECIAL FUNCTIONS

#### PROGRAM PROX KEY

INSERT PROX KEY  
 INTO SLOT

PRESS ENTER KEY

#### VEHICLE SELECTION

- + BY VEHICLE
- + BY SYSTEM

#### DIAGNOSTIC MENU

> PROGRAM PROX KEYS  
 PROX KEY INFORMATION

ENTER THE SECURITY CODE.  
 REFER TO PIN CODE SECTION.

**NOTE:**  
 ALL CAN VEHICLES WILL BE A 6  
 DIGIT PIN CODE

#### VEHICLE SELECTION

- + ix35

INDICATES THE NUMBER OF  
 PROXIMITY KEYS CURRENTLY  
 PROGRAMMED TO THE VEHICLE.

MAX 2

#### SECURITY CODE

-----

1	2	3	4	5
6	7	8	9	0

#### VEHICLE SELECTION

- + COUPE
- + SEDAN

#### PROX KEY INFO

? PROX. KEY PROGRAMMED

PRESS ENTER KEY

#### SECURITY CODE

1 2 3 4 5 6





# SPECIAL FUNCTIONS

## HYUNDAI PROXIMITY - iX35

SELECT THE NUMBER OF PROX KEYS TO BE PROGRAMMED.

NUMBER OF KEYS HAS TO BE 1 OR 2..

MAX PROX KEYS = 2

**PROGRAM PROX KEYS**

NO. OF PROX KEYS REQD

1	2	3	4	5
6	7	8	9	0

**PROGRAM PROX KEYS**

PROX KEYS REQD 2



**PROGRAM PROX KEYS**

\*\*\*\*\*

IF ONLY ONE KEY HAS BEEN SELECTED, THEN THE PROCEDURE COMPLETE SCREEN WILL BE DISPLAYED.

IF TWO KEYS ARE REQUIRED, THEN THE FOLLOWING SCREENS WILL BE DISPLAYED

**PROGRAM PROX KEYS**

INSERT NEXT PROX KEY INTO SLOT

**PRESS ENTER KEY**

**PROGRAM PROX KEYS**

2 PROX KEYS PROGRAMMED  
PROCEDURE COMPLETE

REMOVE PROX KEY FROM SLOT

**PRESS ENTER KEY**

**Finished**

**PROGRAM PROX KEYS**

REMOVE PROX KEY FROM SLOT

**PRESS ENTER KEY**



## Key programming with Master Key

Elantra, Lantra, Coupe, S Coupe, Sonata, Sonica, Accent 1996 +  
 Atos, Starex 1998 +  
 Galloper 1999 +

### Procedure

1. Insert Master Key in ignition.
2. Switch Ignition OFF to ON 5 times.
3. Remove Master key.
4. Insert NEW key into IGNITION and TURN IGNITION ON.
5. Turn ignition OFF and remove key.
6. Repeat 4 to 5 for all additional keys and any existing keys.

When programming keys, please note the following:

- a. If an existing key is not registered at this stage then it will be deleted from the system.
- b. The procedure from 3 to 5 must be completed within 15 seconds.
- c. The immobiliser control unit does not return any information to the tester about the key programming procedure, therefore it is possible to input an incorrect security code and continue through the programming procedure.
- d. When programming a key, the horn will sound for 0.2 second to signify the key programming action.
- e. Once the first key has been programmed you should turn the ignition on with a second key and wait for 10 seconds, the horn should again sound. If it doesn't, switch on the HRW (Heated Rear Window Switch) to complete the programming phase.
- f. 2 keys must be programmed to close the procedure.

### Notes:

- a. The transponder aerial has a resistance of 21.5 Ohms
- b. Hyundai & Kia vehicles need the clutch to be depressed to start the vehicle.
- c. A new aerial does not require programming.

## Fault Code List

<b>P1609</b>	Immobiliser SMARTRA error or transponder error
<b>P1610</b>	Immobiliser SMARTRA error
<b>P1677</b>	<b>ECM memory error-</b> if fault will not clear, replace ECM and re-learn keys
<b>P1678</b>	<b>No ECM request-</b> check continuity of wiring between Immobiliser control module pin 6 and the ECM pin 3
<b>P1679</b>	<b>ECM message error-</b> check continuity of wiring between Immobiliser control module pin 6 and the ECM pin 3. If necessary replace ICM
<b>P1690</b>	<b>SMARTRA no response or message error</b>
<b>P1691</b>	<b>Transponder aerial fault-</b> Check for continuity between ICM harness connector terminal 1 and antenna coil harness connector terminal 2. Check for continuity between ICM harness connector terminal 3 and antenna coil harness connector terminal 1. If wiring is OK, replace the transponder aerial.
<b>P1692</b>	<b>Immobiliser warning lamp fault-</b> If the warning light bulb is working replace the ICM. Otherwise, check bulb and then continuity of terminal 7 Cluster harness connector and 17/81 of ECM connector.
<b>P1693</b>	<b>Transponder no response or programming error-</b> Program keys. If the fault persists, replace keys. ICM locks for 1 hour when incorrect PIN tried 3 times.
<b>P1694</b>	<b>ECM message error-</b> Check for continuity between SMARTRA connector terminal 5 and ECM harness side connector terminal 47. If OK, replace ECM
<b>P1695</b>	<b>ECM memory error-</b> re-code existing keys. If code can still not be erased, replace the ECM.
<b>P1696 &amp; P1698</b>	<b>Authentication failed or Invalid Transponder detected-</b> Replace faulty key or code new key
<b>P1697</b>	<b>Tester message invalid-</b> clear code. If code re-occurs, seek new software for tester or replace the tester.
<b>P1800</b>	Immobiliser antenna error
<b>P1801</b>	Immobiliser transponder error
<b>P1803</b>	Immobiliser ECM signal error
<b>P1805</b>	Immobiliser EPROM error



### System Application Guide

VEHICLE	Displac	TYPE	EMS	Immobilizer
CENTENNIAL (LZ)	3.5L	SIGMA DOHC	MELCO	Shinchang
	4.5L	OMEGA DOHC	MELCO	Shinchang
TERRACAN (HP)	2.5L	DIESEL TC(D4BH)	COVEC,MECHA	Shinchang
	3.5L	SIGMA DOHC	MELCO	Shinchang
	2.9L	J3 (COMMON RAIL)	DELPHI	SMARTRA
MATRIX (FC)	1.6L	ALPHA DOHC	BOSCH	SMARTRA
	1.8L	BETA DOHC	SIEMENS	SMARTRA
	1.5L	D (COMMON RAIL)	BOSCH	SMARTRA
GK	1.6L	ALPHA DOHC	BOSCH	SMARTRA
	2.0L	BETA DOHC	SIEMENS	SMARTRA
	2.7L	DELTA DOHC	SIEMENS	SMARTRA
SONATA (EF-B)	2.0L	SIRIUS-II DOHC	MELCO	Shinchang
	2.4L	SIRIUS-II DOHC	MELCO	Shinchang
	2.7L	DELTA DOHC	SIEMENS	Shinchang
VEHICLE	Displac	TYPE	EMS	Immobilizer
XG 25, 30 (XG)	2.5L	DELTA DOHC	SIEMENS	Shinchang
	3.0L	SIGMA DOHC	MELCO	Shinchang
ACCENT (LC)	1.3L	ALPHA SOHC	BOSCH	SMARTRA
	1.5L	ALPHA SO/DO	BOSCH	SMARTRA
	1.6L	ALPHA DOHC	BOSCH	SMARTRA
TRAJET (FO)	2.0L	SIRIUS-II DOHC	MELCO	Shinchang
	2.7L	DELTA DOHC	SIEMENS	Shinchang
	2.0L	D (COMMON RAIL)	BOSCH	SMARTRA
SANTA FE (SM)	2.0L	SIRIUS-II DOHC	MELCO	Shinchang
	2.4L	SIRIUS-II DOHC	MELCO	Shinchang
	2.7L	DELTA DOHC	SIEMENS	Shinchang
	2.0L	D (COMMON RAIL)	BOSCH	SMARTRA
ELANTRA (XD)	1.6L	ALPHA DOHC	BOSCH	SMARTRA
	1.8L	BETA DOHC	SIEMENS	SMARTRA
	2.0L	BETA DOHC	SIEMENS	SMARTRA



# TIPS & HINTS

## System Application Guide

VEHICLE	Displac	TYPE	EMS	Immobilizer
SONATA (Y-3)	1.8L	SIRIUS-SOHC	MELCO	Shinchang
		SIRIUS-DOHC	MELCO	Shinchang
	2.0L	SIRIUS-SOHC	MELCO	Shinchang
		SIRIUS-DOHC	MELCO	Shinchang
3.0L	V-6	MELCO	Shinchang	
EF SONATA (EF)	2.0L	SIRIUS-II DOHC	MELCO	Shinchang
	2.4L	SIRIUS-II DOHC	MELCO	Shinchang
	2.5L	DELTA DOHC	SIEMENS	Shinchang
ATOS	1.0L	EPSILON SOHC	HYUNDAI	Shinchang
ATOS(01MY~)	1.0L	EPSILON SOHC	BOSCH	SMARTRA
GETZ	1.1L	EPSILON SOHC	BOSCH	SMARTRA
	1.3L/1.5L	ALPHA SO/DO	BOSCH	SMARTRA

VEHICLE	Displac	TYPE	EMS	Immobilizer
ACCENT (X-3)	1.3L	Alpha-SOHC	CARB	Shinchang
		Alpha-SOHC	SIEMENS	Shinchang
	1.5L	Alpha-SOHC	BOSCH	Shinchang
		Alpha-DOHC	BOSCH	Shinchang
ELANTRA (RD)	1.6L	Beta-DOHC	SIEMENS	Shinchang
	1.8L	Beta-DOHC	SIEMENS	Shinchang
		Beta-DOHC	BOSCH	Shinchang
COUPE (TBURON)	1.8L	Beta-DOHC	SIEMENS	Shinchang
		Beta-DOHC	BOSCH	Shinchang
	2.0L	Beta-DOHC	SIEMENS	Shinchang
		Beta-DOHC	BOSCH	Shinchang

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## TIPS & HINTS

### *Ix35 Proximity System*

When programming the proximity keys on a ix35, the procedure refers to inserting the proximity key into the slot. The slot is located in the centre console as shown below.

Note: The slot is spring loaded and the key must be inserted correctly. To remove the key the key is pushed down slightly against the spring loading to remove it.



### *GENERAL TIPS and HINTS*

#### **LOCK TIME**

SMARTRA PETROL : 1 HOUR      IGNITION OFF

SMARTRA DIESEL : 1 HOUR      IGNITION ON

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# REMOTE PROGRAMMING



## MANUAL REMOTE CONTROL PROGRAMMING PROCEDURE

1. Remove the lower crash panel and locate the remote control receiver unit.
2. The switch on the side of the unit should be switched to the SET position and the ignition on.
3. Press the lock button or unlock button on all transmitters quickly.
4. Then turn ignition OFF.
5. Then test remote control



**Type 1 & 4**



**Type 2 & 5**

<b>Santa Fe</b>	<b>(01 to 06)</b>
<b>Sonata</b>	<b>(99 to 06)</b>
<b>XG300</b>	<b>(00 to 01)</b>
<b>XG350</b>	<b>(02 to 06)</b>

Note A. A maximum of 2 remotes can be programmed

### Procedure

1. Ensure memory switch is in OFF position on the control module.
2. Switch ignition ON.
3. Wait 5 seconds & put memory switch in SET position.
4. Press the Lock button of the remote.
5. To program a second remote, press second remote Lock button.
6. Set memory switch to OFF
7. Switch ignition OFF



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