

ADVANCED DIAGNOSTICS

Unlocking Technology

HYUNDAI

(Version 3.4)



World Leaders In Automotive Key Programming Equipment

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InfoQuest

Vehicle Data Search

Applications are continually updated as vehicles are constantly added.

To ensure you have the very latest information, the applications list is available via Info Quest - an online portal containing vehicle technical data for key & remote programming for all manufacturers.

To view the latest vehicle applications please visit

Info Quest at

<http://iq.advanced-diagnostics.co.uk/>

Hyundai Software

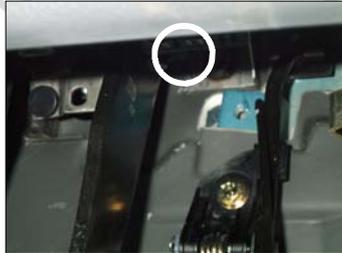
ADS118	Hyundai - Kia
ADS147	Hyundai - Kia CAN
ADS196	Hyundai - Kia 2012



B

DIAGNOSTIC SOCKETS/PORTS

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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WWW.ADUSA.US



SPECIAL FUNCTIONS

PIN CODES

Pin codes for Hyundai are either 4 , 5, 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)

4 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

✘
✔

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:

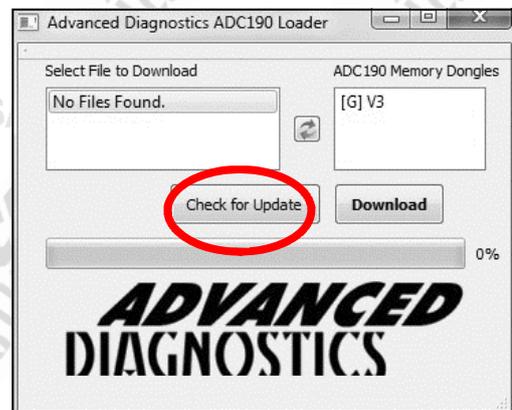
Install the ADC190 loader program from the **DOWNLOADS** section of the Advanced Diagnostics website.

Update Procedure

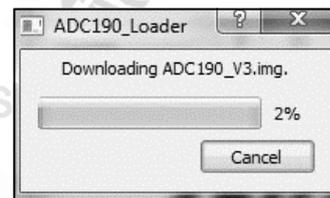
1. Connect the ADC190 dongle to the PC via a USB cable. Note: For the first time allow the driver to automatically install.
2. Open the ADC190 program by double clicking the icon on your desktop.



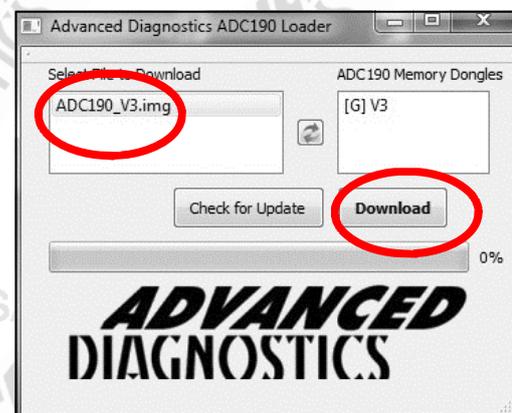
3. The following screen box will be displayed.



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



5. When completed the latest file will be displayed.

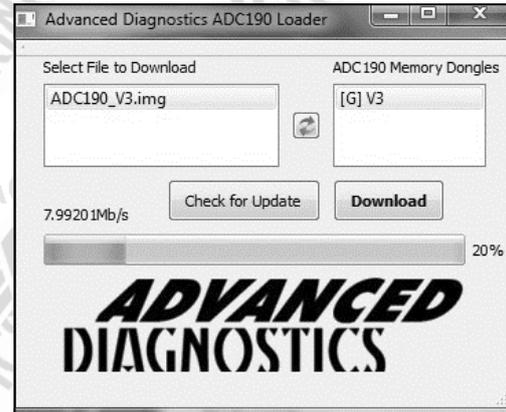


6. Click the **DOWNLOAD** button.

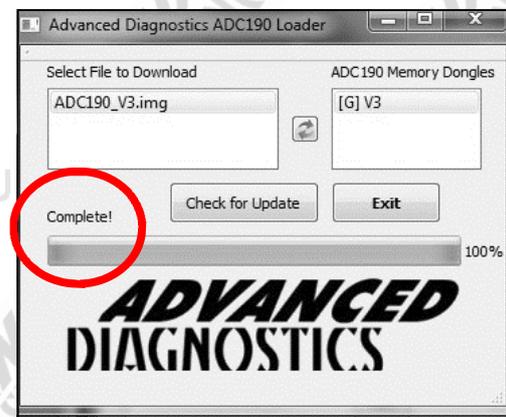
SPECIAL FUNCTIONS



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.

WWW.ADUSA.US



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

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SECURITY CODE

1 2 3 4 5 6



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



C

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
IGNITION 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

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

x

✓

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



SPECIAL FUNCTIONS

HYUNDAI 2012 PROX

KEY PROGRAMMING

A TOTAL OF 2 PROX KEYS CAN BE PROGRAMMED—USED KEYS FROM ANOTHER CAR WILL NOT WORK

VEHICLE SELECTION

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

ECU IDENTIFICATION

HYUNDAI / KIA PROXIMITY

PRESS ENTER KEY

THE PUSH BUTTON SHOULD STILL BE OFF

THE 6 DIGIT PIN IS NOW REQUIRED. AVAILABLE AT CODEWIZARD, DEALER, NASTF OR AD UK WEBSITE.

VEHICLE SELECTION

- + EURO
- + USA
- + AUS

DIAGNOSTIC MENU

- ECU IDENTIFICATION
- SPECIAL FUNCTIONS

SECURITY CODE

1	2	3	4	5
6	7	8	9	0

VEHICLE SELECTION

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

DIAGNOSTIC MENU

- > KEYS PROGRAMMED
- > CLEAR / PROGRAM PROX

KEY PROGRAMMING

AFTER PRESSING ENTER
PRESS START / STOP BUTTON
WITH REMOTE WITHIN 5 SECONDS

PRESS ENTER KEY

VEHICLE SELECTION

- + BY VEHICLE
- + BY SYSTEM

THERE IS NO LEARNING SPOT ON THESE MODELS

THERE IS NO PROGRAMMING SLOT
HOLD THE TIP OF THE PROX REMOTE UP TO THE START /STOP BUTTON

USE THE TIP OF THE PROX REMOTE TO PUSH AND RELEASE THE STOP / START BUTTON ONCE TO REGISTER THE PROX.

VEHICLE SELECTION

- + SANTA FE

CLEAR PROX

WARNING—ALL PROX WILL BE CLEARED
CONTINUE



KEY PROGRAMMING

BACK TO EXIT
ENTER TO PROGRAM NEXT KEY

PRESS ENTER KEY

LEAVE PUSH BUTTON OFF. IT MAY TAKE SEVERAL ATTEMPTS TO COMMUNICATE. TURNING THE HAZARD LIGHTS ON USUALLY HELPS TO GAIN COMMUNICATION IN THE BEGINNING.

CLEAR / PROGRAM PROX

SWITCH IGNITION OFF
PLEASE HAVE THE REMOTE
READY TO PROGRAM

KEY PROGRAMMING

PROCEDURE COMPLETE

PRESS ENTER KEY



Key programming with Master Key

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

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



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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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

PRECAUTIONS

IMPORTANT : PLEASE ENSURE ALL PRECAUTIONS ARE OBSERVED AS INDICATED AT THE FRONT OF THE OPERATING MANUAL.

IN PARTICULAR : For vehicles fitted with STOP/START technology, the battery leads must not be shorted together when the battery is disconnected as this can lead to damage to the car and potential personal injury.



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

Santa Fe	(01 to 06)
Sonata	(99 to 06)
XG300	(00 to 01)
XG350	(02 to 06)

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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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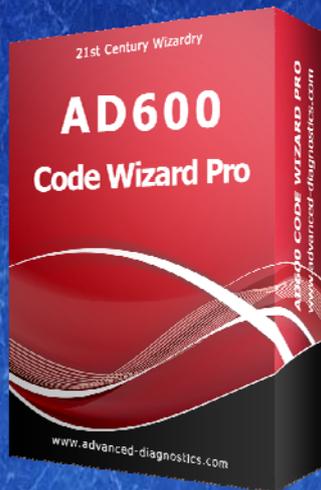
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AD900Pro

Transponder Cloning

The most advanced key transponder cloning tool in the market - that reads, writes, copies, a wide range of automotive transponders world-wide. Complimenting the AD100Pro / MVPPro.



AD600

Code Wizard Pro

PINCODE Generator

AD600 is a software program that supports various vehicle manufacturers and provides the ability to generate immobiliser PINCODES, mechanical key codes including dealer tool security codes.



AD35

Remote Control Tester

AD35 is an innovative remote control tester developed to assist with the diagnosis of all types of (IR) Infra Red & (RF) Radio Frequency remote controls for all makes & models.

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