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HYUNDAI

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APPLICATIONS

A

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INTRODUCTION

The Hyundai Immobiliser system called the SMARTRA manufactured by Bosch consists of the SMARTRA ECU which has its own CPU which controls the vehicles immobiliser in conjunction with the engine management ECU.

There are 3 basic systems used on the range of vehicles :-

SYSTEM 1

BLACK key system—TEXTON Read only key head

Minimum keys required for programming 2.

Maximum keys programmed 5.

SYSTEM 2

BLUE key system—ENCRYPT key system

Minimum keys required for programming 2.

Maximum keys programmed 4.

SYSTEM 3

GREEN key system—SHINCHANG ENCRYPT

Minimum keys required for programming 2.

Maximum keys programmed 4.

PIN CODE ENTRY

On earlier vehicles the pin code is a 4 digit code, which is standard and set to 2345.

On later systems the pin code is a 6 digit code, and available from the dealer.



GENERAL OPERATION

B

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.

NOTE : IF AN EXISTING KEY IS NOT REGISTERED AT THIS STAGE THEN IT WILL BE DELETED FROM THE SYSTEM.

NOTE 2 : THE PROCEDURE FROM 3 TO 5 MUST BE COMPLETED WITHIN 15 SECONDS.



SPECIAL FUNCTIONS

C

KEY PROGRAMMING—SYSTEM 1

DIAGNOSTIC MENU

ECU IDENTIFICATION
FAULT CODES
SPECIAL FUNCTIONS

From the main DIAGNOSTIC MENU
select the SPECIAL FUNCTIONS.

PRESS ENTER KEY

DIAGNOSTIC MENU

> **PROGRAM KEYS**
> CLEAR KEYS
> KEYS PROGRAMMED

Select PROGRAM KEYS.

PRESS ENTER KEY

SECURITY CODE

— — — —

Enter security code.

NOTE : This code is normally 2345

NOTE 2 : If this is incorrect then the
dealer who supplied the vehicle may
have changed it. If this is so, please
contact the dealer.

SECURITY CODE

2 3 4 5

IS THIS CORRECT
OK = ENTER CLEAR =BACK

If key programming is successful, then
procedure complete is displayed.

PROCEDURE COMPLETE

NOTE : REPEAT PROCEDURE FOR ALL
ADDITIONAL KEYS REQUIRED.

SPECIAL FUNCTIONS

C

KEY CLEARING—SYSTEM 1

DIAGNOSTIC MENU

> PROGRAM KEYS
> **CLEAR KEYS**
> KEYS PROGRAMMED

Select CLEAR KEYS from SPECIAL FUNCTIONS menu.

PRESS ENTER KEY

Enter security code.

SECURITY CODE

NOTE : This code is normally 2345

NOTE 2 : If this is incorrect then the dealer who supplied the vehicle may have changed it. If this is so, please contact the dealer.

SECURITY CODE

2 3 4 5

IS THIS CORRECT
OK = ENTER CLEAR =BACK

PROCEDURE COMPLETE

When all keys are cleared PROCEDURE COMPLETE will be displayed.

SPECIAL FUNCTIONS

C

KEY PROGRAMMING—SYSTEM 2

DIAGNOSTIC MENU

ECU IDENTIFICATION
FAULT CODES
SPECIAL FUNCTIONS

From the main DIAGNOSTIC MENU select the SPECIAL FUNCTIONS.

PRESS ENTER KEY

DIAGNOSTIC MENU

> **PROGRAM KEYS**
> KEYS PROGRAMMED
> LIMP HOME MODE

Select PROGRAM KEYS.

PRESS ENTER KEY

SECURITY CODE

Enter 6 digit security code.

SECURITY CODE

1 2 3 4 5 6

IS THIS CORRECT
OK = ENTER CLEAR =BACK

NOTE : The 6 digit code is available from the vehicle dealer.

SWITCH IGNITION ON
AND THEN PRESS ENTER

Switch IGNITION ON and press the **ENTER** key.

SPECIAL FUNCTIONS

C

KEY PROGRAMMING—SYSTEM 2

PROGRAM KEYS
INSERT NEXT KEY
& THEN PRESS ENTER

The key in the ignition will be added to the system.

To program additional keys press the **ENTER** key, or **BACK** to exit programming.

PROGRAM KEYS
PROCEDURE COMPLETE

If **ENTER** is pressed then additional keys can be programmed.

Repeat for all additional keys.

If **BACK** is pressed and all keys have been programmed **PROCEDURE COMPLETE** is displayed.

LIMP HOME MODE—SYSTEM 2

DIAGNOSTIC MENU

ECU IDENTIFICATION
FAULT CODES
SPECIAL FUNCTIONS

From the main DIAGNOSTIC MENU select the **SPECIAL FUNCTIONS**.

PRESS ENTER KEY

DIAGNOSTIC MENU

> PROGRAM KEYS
> CLEAR KEYS
> **LIMP HOME MODE**

Select **LIMP HOME MODE**.

Insert security code 2345 and this will enable one start to get the vehicle to a dealer or workshop if further testing is required.

PRESS ENTER KEY



SPECIAL FUNCTIONS

C

PIN CODE CONVERTER

DIAGNOSTIC MENU

EURO
USA
HYUNDAI SYSTEMS

From the main DIAGNOSTIC MENU
select the HYUNDAI SYSTEMS.

PRESS ENTER KEY

DIAGNOSTIC MENU

PINCODE
TYPE 1
TYPE 2
TYPE 3
TYPE 4

Select PINCODE.

PRESS ENTER KEY

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PINCODE CONVERTER

Press the **ENTER** button

PRESS ENTER KEY

SECURITY CODE

1 2 3 4 5 6

Insert the last 6 digits of the VIN or
CHASSIS number.

IS THIS CORRECT
OK = ENTER CLEAR =BACK

Then press **ENTER**

VIN TO PINCODE

PLEASE WAIT

Please wait for program to convert the
number, this will take 5 minutes.

The 6 digit Pin code will then be dis-
played for use on key programming.

VIN TO PINCODE

PIN : 582656

NOTE : This will use a token.

When programming keys, please note the following:

The transponder aerial has a resistance of 21.5 Ohms

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.

When programming a key, the horn will sound for 0.2 second to signify the key programming action.

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.

NOTE :-2 keys must be programmed to close the procedure.

On Hyundai & Kia vehicles the Clutch must be depressed to start the vehicle.

Note: The aerial is not programmed.

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. Return the switch to OFF position and then test remote control.