

DAEWOO



UNLOCKING TECHNOLOGY



DAEWOO

ADVANCED **DIAGNOSTICS**



DAEWOO

DAEWOO/CHEVROLET

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APPLICATIONS

A

DAEWOO (ADS119)



				1234		PRO 		AD100
BROUGHAM II	ALL	✓	x	x	x	ADC151 or ADC131-B	A	ADC110-B or ADC131-B
CIELO	ALL	✓	x	x	x	ADC151 or ADC131-B	A	ADC110-B or ADC131-B
ESPERO	ALL	✓	x	x	x	ADC151 or ADC131-B	A	ADC110-B or ADC131-B
KALOS	ALL	✓	✓	x	x	ADC151	A	ADC110-B
LACETTI	ALL	✓	✓	x	x	ADC151	A	ADC110-B
LANOS	ALL	✓	✓	x	x	ADC151 or ADC131-B	A	ADC110-B or ADC131-B
LEGANZA	ALL	✓	✓	x	x	ADC151 or ADC131-B	D	ADC110-B or ADC131-B
LEZO	ALL	✓	x	x	x	ADC151 or ADC131-B	A	ADC110-B or ADC131-B
MAGNUS	ALL	✓	x	x	x	ADC151 or ADC131-B	A	ADC110-B or ADC131-B
MATIZ	ALL	✓	✓	x	x	ADC151	A	ADC110-B
NEXIA	ALL	✓	x	x	x	ADC151 or ADC131-B	A	ADC110-B or ADC131-B
NUBIRA	ALL	✓	✓	x	x	ADC151 or ADC131-B	D	ADC110-B or ADC131-B
NUBIRA II	ALL	✓	✓	x	x	ADC151	A	ADC110-B
PRINCE	ALL	✓	x	x	x	ADC151 or ADC131-B	A	ADC110-B or ADC131-B
PRINCE II	ALL	✓	x	x	x	ADC151 or ADC131-B	A	ADC110-B or ADC131-B
REMAN	ALL	✓	x	x	x	ADC151 or ADC131-B	A	ADC110-B or ADC131-B
SPARK	ALL	✓	✓	x	x	ADC151 or ADC131-B	A	ADC110-B or ADC131-B
SUPER SALON	ALL	✓	x	x	x	ADC151 or ADC131-B	A	ADC110-B or ADC131-B
TACUMA	ALL	✓	✓	x	x	ADC151 or ADC131-B	A	ADC110-B or ADC131-B
ZETA	ALL	✓	x	x	x	ADC151 or ADC131-B	A	ADC110-B or ADC131-B

The cable ADC131-B used for DAEWOO has a switch to select for either MATIZ or ALL OTHER DAEWOO vehicles.

MATIZ = POSITION 1

ALL OTHER VEHICLES = POSITION 2

NOTE 2 : On a few vehicles dated 2000, a different protocol was used, which meant a different cable is required. If no communication can be found on the NUBIRA or LEGANZA Model Year 2000, then ADC128 & ADC119 should be used. All later models use the standard ADC110-B OBD Cable.

APPLICATIONS

A

CHEVROLET (ADS119)



				1234		PRO 		AD100
AVEO *	2007⇒	✓	✓	x	x	ADC151	A	x
BEAT *	2007⇒	✓	✓	x	x	ADC151	A	x
KALOS *	2007⇒	✓	3	x	x	ADC151	A	x
LACETTI *	2007⇒	✓	✓	x	x	ADC151	A	x
MATIZ *	2007⇒	✓	✓	x	x	ADC151	A	x
MATIZ CREATIVE *	2007⇒	✓	✓	x	x	ADC151	A	x
SPARK *	2007⇒	✓	✓	x	x	ADC151	A	x
SPARK GT *	2007⇒	✓	✓	x	x	ADC151	A	x
SPARK ECO LOGIC *	2007⇒	✓	✓	x	x	ADC151	A	x
TACUMA *	2007⇒	✓	✓	x	x	ADC151	A	x

* PRO ONLY

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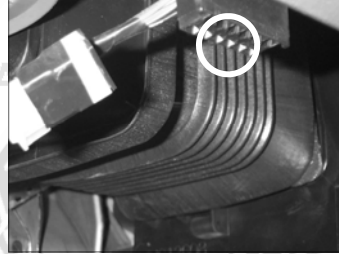
DIAGNOSTIC SOCKETS/PORTS

B

DAEWOO/CHEVROLET



MATIZ



MATIZ—12 PIN



NEXIA



MUSSO



NUBIRA



TACUMA



LACETTI



KELISA



AVEO



CRUZE

GENERAL OPERATION

The immobiliser system provides theft protection using the ignition key and transponder device. An LED is used to indicate the immobiliser status. The immobiliser control unit communicates to the engine management unit when a valid key code is received and sends a security code to enable starting. If a valid key is used, the LED indicates the correct key status, if an incorrect key is used a fault code is set and the LED indicates an incorrect key status.

TRANSPONDER KEY

The transponder key consist of a 96bit crypto algorithm secret key code which is transmitted via an aerial mounted around the ignition key barrel.

CENTRAL LOCKING SYSTEM

INTRODUCTION

The remote keyless entry and anti-theft system fitted to the range of Daewoo vehicles performs the following functions :-

- Remote unlocking of doors
- Sense of vehicle break in via doors, boot or bonnet.
- Sounding of warning device
- Locking of doors if the vehicle door or boot has not been opened after 30 seconds of unlocking using the remote plip.
- Sense movement inside vehicle if ultrasonic sensors are fitted.

COMPONENTS

- Remote entry module receiver control unit
- Security LED
- Boot open switch
- Boot tamper switch
- Front Door tamper switches
- Door open switches
- Central locking control unit
- Sounder
- Bonnet open switch
- Ultrasonic options (Optional)

GENERAL OPERATION

The remote control units lock and unlock the vehicle doors using radio frequency technology to the control unit. The range of control is 5-10 metres. When the doors are locked the indicator lamps flash once, and when unlocked the lamps flash twice.

SECURITY INDICATOR

The security indicator mounted in the instrument panel indicates the state of the security system. When the lock button is pressed, the control system is armed and the LED flashes. The LED will now flash until the control unit is disarmed.

CONTROL MODULE

The control module is mounted in the instrument panel, it controls the whole system and has the ability for self diagnosis. If there is a fault in the system the indicators will flash twice when the vehicle is unlocked, with a 0.5 second delay between flashes. If the vehicle has had an intrusion then the indicators will flash twice but with a 1.5 second delay between flashes.

NOTE : The immobiliser receiver does not need programming if replaced.

SPECIAL FUNCTIONS

DAEWOO CHEVROLET - SYSTEMS

PROGRAM KEYS

VEHICLE SELECTION

+ CHEVROLET
+ DAEWOO
 + FIAT
 + GENERAL MOTORS
 + NISSAN
 + PEUGEOT

VEHICLE SELECTION

+ EURO
 + USA

VEHICLE SELECTION

IMMOBILISER
 REMOTES

VEHICLE SELECTION

MATIZ
 TACUMA

SWITCH IGNITION ON

PRESS ENTER KEY

ECU IDENTIFICATION

ICU NUMBER FAEB
 ECU NO. FAEB

PRESS ENTER KEY

PROGRAM KEYS

DIAGNOSTIC MENU

ECU IDENTIFICATION
 SPECIAL FUNCTIONS

DIAGNOSTIC MENU

PROGRAM KEYS
 KEY INFORMATION
 NEUTRALISE

PRESS ENTER KEY

PROGRAM KEYS

KEYCODE : A98D39E400000000

PRESS ENTER KEY

PROGRAM KEYS

BACK TO EXIT.
 ENTER TO PROGRAM
 NEXT KEY

PROGRAM KEYS

TURN IGN OFF
 WAIT 3 SECONDS
 TURN IGN ON
 WAIT 2 SECONDS
 REPEAT 3 TIMES

PRESS ENTER KEY

PROGRAM KEYS

RE INSERT 1ST KEY
 AND IGN ON
 PROCEDURE COMPLETE

PRESS ENTER KEY

PROGRAM KEYS

NOTE : THIS PROCEDURE
 MUST BE COMPLETED AFTER
 PROGRAMMING, OTHERWISE
 THE SYSTEM WILL LOCK.

IF THIS IS NOT PERFORMED,
 PROGRAMMING WILL NEED
 TO BE REPEATED !

SPECIAL FUNCTIONS

DAEWOO CHEVROLET - SYSTEMS

PROGRAM REMOTES

VEHICLE SELECTION

+ CHEVROLET
+ DAEWOO
 + FIAT
 + GENERAL MOTORS
 + NISSAN
 + PEUGEOT

VEHICLE SELECTION

+ EURO
+ USA

VEHICLE SELECTION

IMMOBILISER
REMOTES

VEHICLE SELECTION

MATIZ
TACUMA

SWITCH IGNITION ON

PRESS ENTER KEY

ECU IDENTIFICATION

REMOTES TYPE 3

PRESS ENTER KEY

PROGRAM REMOTES

DIAGNOSTIC MENU

ECU IDENTIFICATION
SPECIAL FUNCTIONS

DIAGNOSTIC MENU

PROGRAM REMOTE
 DISABLE REMOTES
 ENABLE REMOTES

PRESS ENTER KEY

PROGRAM REMOTES

MAX 5 KEYS

PRESS ENTER KEY

REMOTE 1

PRESS LOCK AND UNLOCK
 TOGETHER FOR 1 SEC.
 THEN RELEASE BOTH

PRESS LOCK
BACK TO EXIT

PROGRAM REMOTE

REMOTE 1
 SUCCESSFUL
 WOULD YOU LIKE TO
 PROGRAM KEY NO 2

X

✓

NOTE : REPEAT FOR ALL
 REMOTES, AND THEN PRESS
 THE X TO EXIT.

SPECIAL FUNCTIONS

DAEWOO - SYSTEMS

PROGRAM KEYS

VEHICLE SELECTION

+ CHEVROLET
+ DAEWOO
 + FIAT
 + GENERAL MOTORS
 + NISSAN
 + PEUGEOT

VEHICLE SELECTION

MAGNUS
 MATIZ
 NEXIA
 NUBIRA
 NUBIRA ii
 NUBIRA iii

SWITCH IGNITION ON

PRESS ENTER KEY

ECU IDENTIFICATION

DAEWOO

PRESS ENTER KEY

DIAGNOSTIC MENU

ECU IDENTIFICATION
SPECIAL FUNCTIONS

DIAGNOSTIC MENU

PROGRAM KEYS

PRESS ENTER KEY

PROGRAM KEYS

PROGRAM KEYS

SWITCH IGNITION ON
 AND THEN PRESS ENTER

PROGRAM KEYS

BACK TO EXIT.
 ENTER TO PROGRAM
 NEXT KEY

PROGRAM KEYS

INSERT NEXT KEY
 SWIITCH IGNITION ON
 AMD THEN PRESS ENTER

PROGRAM KEYS

BACK TO EXIT.
 ENTER TO PROGRAM
 NEXT KEY

PROGRAM KEYS

IGNITION OFF
 WAIT 3 SECONDS
 IGNITION ON
 WAIT 2 SECONDS
 REPEAT 3 TIMES

PRESS ENTER KEY

PROGRAM KEYS

INSERT
 FIRST KEY
 IGNITION ON
 PROCEDURE COMPLETE

PRESS ENTER KEY

PROGRAM KEYS

NOTE : THIS PROCEDURE
 MUST BE COMPLETED AFTER
 PROGRAMMING, OTHERWISE
 THE SYSTEM WILL LOCK.

IF THIS IS NOT PERFORMED,
 PROGRAMMING WILL NEED
 TO BE REPEATED !

TIPS & HINTS



1. On a few vehicles dated 2000, a different protocol was used, which meant a different cable is required. If no communication can be found on the NUBIRA or LEGANZA Model Year 2000, then ADC128 & adc119 should be used. All later models use the standard ADC110-B OBD Cable.
2. When inserting a NEW un-programmed key DO NOT try and start the car otherwise the Engine and Immobiliser ECU will lock. If this happens turn the ignition OFF and then back ON again to reset.
3. Key programming on matiz is the same as the other Daewoo vehicles, but operation is done much slower.
4. Musso diesel with a NEW un-programmed key will start but WILL NOT rev.
5. On some Daewoo models the connector is mounted in such a position that the ADC110-B CABLE slips out of the socket and causes a bad connection. If no communication is experienced, make sure socket is pushed firmly home.
6. The immobiliser receiver does not need programming if replaced.
7. Daewoo Kalos TYPE 3 If existing remotes are erased during the programming procedure, with no error messages. The fix for this is when the programmer asks to press the LOCK and UNLOCK buttons, this must be done with the ignition ON.
8. Daewoo Nexia, Non start, Immobiliser active - Check the 10amp fuse for the cruise control.
9. When coding keys, the AD100 displays transponder "code" on the screen, the control unit is situated under the steering column inside the cowling. Key learn times or "up times" and "down times" on this control units are extremely slow. Therefore a key can be deleted or coded and the appropriate control unit response (car starts or doesn't start) is very long. When programming a key with the AD100 it may be necessary to leave the vehicle with the ignition off for at least ten minutes.
10. Keys programmed, car will not start, ECU and ICU id's are not the same - The id's of the two control units should be identical. If this is not the case, it is because the learning procedure between the two units was not carried out correctly after the keys were programmed. Select System 1, ECU reset, program the keys and then cycle the ignition three times very slowly (approx 4 seconds per turn) to re-align the control units. If you still get this problem, it is most likely to be an aerial issue. Check the resistance, it should be 7.0 ohms. 2,3 or 4 ohms is too low !!!
11. Remember that there are 5 different keys for Daewoo and all look similar - only one will work ! After the programming procedure you may have a vehicle that does not start, has a warning light on all the time and will not communicate. Follow the battery reset procedure
12. Musso vehicles with an immobiliser fault or no keys coded will start and run but the engine will not rev up
13. The learn times for the engine control unit on Matiz are very slow indeed- keys that have been programmed may take up to 15 minutes to be learnt by the engine ECU, therefore once programmed the car should be locked and left alone for a substantial period of time

Remote Keyless Entry Transmitter Programming

- A. All Transmitters for a specific vehicle must be programmed at the same time. Any transmitter (new or old) not programmed or re-programmed will no longer operate the vehicle.
- B. A maximum of 5 transmitters can be programmed to one vehicle once all transmitters have been programmed, switch ignition off, remove tester and wait approx 10 seconds.

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WWW.ADUSA.US



Advanced Diagnostics Ltd

Diagnostics House

Eastboro Fields

Hemdale

Nuneaton

CV11 6GL

T: +44(0)2476 347000

F: +44(0)2476 347100

W: www.advanced-diagnostics.co.uk

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