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DAEWOO

DAEWOO MANUAL

ADVANCED DIAGNOSTICS

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ADVANCED DIAGNOSTICS

APPLICATIONS

MODEL	YEAR	CABLE
BROUGHAM II	ALL MODELS	ADC131(SWITCH 2)
CIELO	ALL MODELS	ADC131(SWITCH 2)
ESPERO	ALL MODELS	ADC131(SWITCH 2)
KALOS	ALL MODELS	ADC131(SWITCH 2) ADC110-B
LACETTI	ALL MODELS	ADC110-B
LANOS	ALL MODELS	ADC131(SWITCH 2)
LEGANZA	ALL MODELS	ADC131(SWITCH 2)
LEGANZA 2000 MY	ALL MODELS	ADC128
LEZO	ALL MODELS	ADC131(SWITCH 2)
MAGNUS	ALL MODELS	ADC131(SWITCH 2)
MATIZ	ALL MODELS	ADC131(SWITCH 1) ADC110-B
NUBIRA	ALL MODELS	ADC131(SWITCH 2)
NUBIRA 2000 MY	ALL MODELS	ADC128
NUBIRA II	ALL MODELS	ADC131(SWITCH 2) ADC110-B
PRINCE	ALL MODELS	ADC131(SWITCH 2)
PRINCE II	ALL MODELS	ADC131(SWITCH 2)
REMAN	ALL MODELS	ADC131(SWITCH 2)
SUPER SALON	ALL MODELS	ADC131(SWITCH 2)
TACUMA	ALL MODELS	ADC131(SWITCH 2) ADC110-B
ZETA	ALL MODELS	ADC131(SWITCH 2)

The cable 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 : If the vehicle is fitted with OBD 16 Pin connector then use the
ADC110-B standard lead. These are only on 2000/01/02 model vehicles.

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 should be used. All
later models use the standard ADC110-B OBD Cable.

GENERAL OPERATION

IMMOBILISER SYSTEM

INTRODUCTION
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

KEY PROGRAMMING—ALL DAEWOO SYSTEMS (Older Systems)

DIAGNOSTIC MENU

ECU IDENTIFICATION
SPECIAL FUNCTIONS

PRESS ENTER KEY

From the main DIAGNOSTIC MENU select the SPECIAL FUNCTIONS.

DIAGNOSTIC MENU

> **PROGRAM KEYS**
> KEY INFORMATION

PRESS ENTER KEY

Select PROGRAM KEYS.

SWITCH IGNITION ON

AND THEN PRESS ENTER

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

PROGRAM KEYS
BACK TO EXIT
ENTER TO PROGRAM
NEXT KEY

The key will be programmed.

Press **ENTER** to add another key or **BACK** to exit from programming mode.

PROGRAM KEYS
PROCEDURE COMPLETE

After pressing **BACK** , procedure complete will be displayed.

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KEY PROGRAMMING—(NEWER SYSTEMS)

```
DIAGNOSTIC MENU

> PROGRAM KEYS
>SHOW KEY INFO


PRESS ENTER KEY
```

NOTE : KEY PROGRAMMING ON MATIZ IS THE SAME AS THE OTHER DAEWOO VEHICLES, BUT OPERATION IS DONE MUCH SLOWER.

```
DIAGNOSTIC MENU

> PROGRAM KEYS
  KEY INFORMATION
  ECU LEARN/RESET


PRESS ENTER KEY
```

On MATIZ information about the key in the IGNITION can also be displayed.

From the main DIAGNOSTIC MENU select the SPECIAL FUNCTIONS.

```
KEYCODE : A234029
A8500000



PRESS ENTER KEY
```

Select PROGRAM KEYS.

Switch IGNITION ON and press the **ENTER** key, the key will be programmed.

```
PROGRAM KEYS
BACK TO EXIT
ENTER TO PROGRAM
NEXT KEY
```

Press **ENTER** to add another key or **BACK** to exit from programming mode.

NOTE : IF BACK IS PRESSED THE SCREEN WILL DISPLAY PROCEDURE COMPLETE.

```
PROGRAM KEYS
INSERT NEXT KEY
SWITCH IGNITION ON
AND PRESS ENTER
```

ADVANCED DIAGNOSTICS

KEY PROGRAMMING—(NEWER SYSTEMS)

```
PLEASE WAIT
TRYING TO COMMUNICATE
```

```
PROGRAM KEYS

KEYCODE : A23429


PRESS ENTER KEY
```

After programming the key will be programmed.

```
PROGRAM KEYS

BACK TO EXIT
ENTER TO PROGRAM
NEXT KEY
```

```
PROGRAM KEYS
IGNITION OFF
WAIT : 3 SECONDS
IGN ON
WAIT 2 SECONDS
REPEAT 3 TIMES
```

```
PROGRAM KEYS

INSERT
FIRST KEY
IGN ON

PROCEDURE COMPLETE
```

SPECIAL FUNCTIONS

ECU LEARN/RESET

DIAGNOSTIC MENU

PROGRAM KEYS
KEY INFORMATION
> ECU LEARN/RESET

PRESS ENTER KEY

ECU LEARN/RESET

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

ECU LEARN/RESET

PROCEDURE COMPLETE

NOTE : ECU LEARN / RESET CAN BE USED TO MATCH A NEW ECU OR RESET THE CURRENT ECU IF LOCKED.

TIPS & HINTS

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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.

Musso diesel with a NEW un-programmed key will start but WILL NOT rev.

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.

Remote Keyless Entry Transmitter Programming

1. 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.
2. A maximum of 5 transmitters can be programmed to one vehicle
3. Once all transmitters have been programmed, switch ignition off, remove tester and wait approx 10 seconds.

ADVANCED DIAGNOSTICS