SILCA®

SDD
SilcaDiagnosticDevice

SBB

SW- CHRYSLER® CAN BUS -L1 (SDD/SBB)

CODE: D431398XA - VERS. 2.0

GB

INDEX

SW- PRG. CHRYSLER® CAN BUS -L1 (SDD/SBB)

1   IMMOBILIZER FUNCTIONS MENU CHRYSLER® - DODGE® - JEEP® CAN BUS (ROUTINE 54)

MODEL	FROM	TO	SILCA REF	ILCO REF	KEY #	CABLE	POSITION OBD
CHRYSLER							
300 [CAN]	2004		ORIGINAL	ORIGINAL	8	00	
DODGE							
DAKOTA [CAN]	2004	2005	ORIGINAL	ORIGINAL	8	00	
DURANGO [CAN]	2004		ORIGINAL	ORIGINAL	8	00	
MAGNUM [CAN]	2004		ORIGINAL	ORIGINAL	8	00	
JEEP							
G.CHEROKEE [CAN]	2005		ORIGINAL	ORIGINAL	8	00	

The functions on these vehicles are:
- addition of new keys (never programmed on the vehicle)
- addition of old keys (programmed and erased on the vehicle)
- erasure of all keys
- addition of remote controls
- reading of immobilizer ID code
- reading of errors
- deletion of errors

The following are needed to use this function:

SW ADAPTER CAN BUS
CODE D726833ZB

OBD II [00] CABLE

PIN CODE

4 numerical characters to obtain from dealer

Keys to programme previously programmed and erased.
Programme an "old" key

SECURITY CODE

Telephone 252 446-3321
ILCO Rocky Mount

Keys to programme never programmed before.
Programme a "new" key

SBB	CABLE/ADAPTER
	 CABLE OBD II [00] (STANDARD)

NOT AVAILABLE

GENERAL INFORMATION:

To programme/erase new Keys/Remote controls the **PIN CODE** (4 numerical characters) and **SECURITY CODE** (6 hexadecimal characters) must be known

The **PIN CODE** is issued by CHRYSLER dealers against **IMMO ID** & **V.I.N** (Vehicle Identification Number).

The **SECURITY CODE** is issued by SILCA/ILCO against the **ECU** code (Figure 1).

IMMOBILIZER FUNCTIONS MENU

From the main menu select: IMMOBILIZER->(CHRYSLER-DODGE-JEEP)->MODEL.

The **CHRYSLER CAN** functions menu is structured as follows:

There is already a key inserted in the ignition block and turned to (**ON**).

If there have been errors during communication, the display will show an error message [**ERROR 1**] (see chapter "WARNING /ERROR MESSAGES" in the Operating Manual).

If communication is successful the display will show:

```
       - CHRYSLER -
  >  PROG.NEW KEYS
     READ IMMO ID
     READ ERRORS
     DELETE ERRORS


             ⇧⇩(ESC)    ⮌
```

- Select and press **ENTER**.
- **ESC** to return to previous menu.

4

1.1   READ IMMO ID

This function is used to view the immobilizer ID (IMMO ID).
- To activate the function, select "**READ IMMO ID**" and press **ENTER**.
- The display will show:

```
-  READ IMMO ID -


HW: 41.41
SW: 09.02.00
PART NUM: 56038675AP


Press any key...
```

Press any key to return to previous menu.

1.2   READ ERRORS

This function is used to check for any anomalies memorized in the immobilizer.
-        To activate the function, select "**READ ERRORS**" and press **ENTER**.
The display will show:

NO ERRORS FOUND

If there are no anomalies memorized, after a few seconds the display will show:

```
NO ERROR
DETECTED


Press any key...
```

Press any key to return to the previous menu.

ERRORS FOUND

If there are anomalies memorized, the display will show the number of errors (XX) memorized in the central control unit:

```
Detected
XX
errors

Press any key...
```

Press any key to see a description of the error:

```
ERR. XXXXXXXXXX 1/X

Description
of the error



⇧⇩⇦⇨(ESC)
```

- **ERR: XXXXXXXXXXXX** error code.
- Press ⇦⇨ to scroll all the errors found.
- Select **ESC** to quit.

1.3   DELETE ERRORS

This function is used to **DELETE** any anomalies memorized in the immobilizer.
- To activate the function, select "**DELETE ERRORS**" and press **ENTER**.

The display will show:

```
          Erase
     actual errors:
          > NO
            YES


        ⇧⇩⇦⇨(ESC)
```

Select and press **ENTER**.
- No, to return to previous menu.
- Yes, to delete the memorized errors.
- ES**C** to quit.

The display will show:

```
        TERMINATED
         ERASING



Press ESC to quit
```

- Select **ESC** to quit.

1.4   PROGRAMME NEW KEYS

This function is used to add / erase keys and remote controls.
- To activate the function, select "**PROG. NEW KEYS**" and press **ENTER**.

The display will show:

```
    – PROG.NEW KEYS –
>  MEM. KEYS NUMBER
   NEW KEY ADDING
   OLD KEY ADDING
   PROGRAMME RKE
   ERASE ALL KEYS

          ⇧⇩(ESC)   ⇗
```

- Select and press **ENTER**.
- ESC to return to the previous menu.

1.4.1   NUMBER OF KEYS MEMORIZED

This function is used to view the number of keys memorized in the immobilizer.
- To activate the function, select "**No. KEYS IN MEM.**" and press **ENTER.**

The display will show:

```
┌─────────────────────────────┐
│                             │
│      Keys number in         │
│        memory:              │
│           XX                │
│                             │
│                             │
│ Press any key...            │
└─────────────────────────────┘
```

- Press any key to return to previous menu.

1.4.2   ADD NEW KEY

This function is used to add to a vehicle keys that have never been programmed on that vehicle.
  - To activate the function, select "ADD NEW KEY" and press ENTER.
The display will show:

```
┌─────────────────────────────┐
│ ─ PROG. NEW KEYS ─          │
│                             │
│ If you don't have           │
│ PIN CODE                    │
│ you don't codify            │
│ any key                     │
│                             │
│                          ↰⮧ │
└─────────────────────────────┘
```

To programme keys the secret 4-digit **PIN CODE** must be known.
The PIN CODE is obtained directly from a CHRYSLER-DODGE-JEEP dealer, against the **V.I.N.** (Vehicle Identification Number) and **IMMO ID**.

  - Press **ESC** to return to the main menu.
  - Press **ENTER** to continue.

```
┌─────────────────────────────┐
│  ─ DATES INSERTION ─        │
│                             │
│ PIN CODE      : XXXX        │
│                             │
│                             │
│                             │
│                          ↰⮧ │
└─────────────────────────────┘
```

  - Select **ESC** to quit;
  - Press **ENTER** to continue;
  - Enter the **PIN CODE** and press **ENTER**;

The display will show:

```
┌─────────────────────────────┐
│  ─ DATES INSERTION ─        │
│                             │
│ KEYS NUMBER     : X         │
│                             │
│                             │
│                             │
│                          ↰⮧ │
└─────────────────────────────┘
```
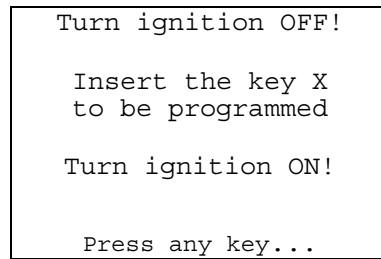
  - Enter the **NUMBER OF KEYS** to be programmed and press **ENTER**;
  - Select **ESC** to quit;
  - Press **ENTER** to continue.

Programming of the keys in the vehicle starts now.

If a wrong PIN has been entered or if errors have occurred during communication, the display will show an error message [**ERROR 1**], [**ERROR 2**] or [**ERROR 4**] (see chapter "WARNING /ERROR MESSAGES" in the Operating Manual).
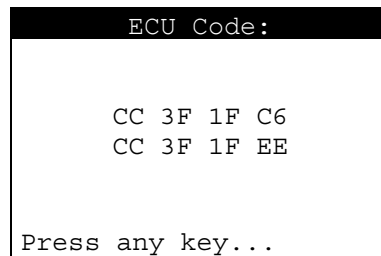
If the PIN is correct the memorization cycle for the keys to be programmed starts and the display shows:

```
Turn ignition OFF!

 Insert the key X
 to be programmed

Turn ignition ON!


  Press any key...
```

- Turn the key to the (**OFF**) position;
- Insert the key to be programmed and turn to the (**ON**) position;
- Press any key to continue.

Only when programming the first key the following 2 video displays appear:
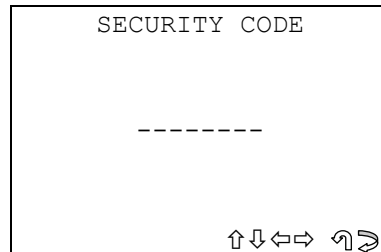
```
     ECU Code:


   CC 3F 1F C6
   CC 3F 1F EE


Press any key...
```

Figure 1

Telephone the Service Centre and communicate the **ECU code** shown above.

The Service Centre operator will communicate your **SECURITY CODE** (6 hexadecimal characters).

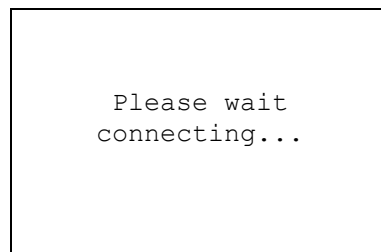When in possession of the **SECURITY CODE**, press any key to continue.

```
    SECURITY CODE


    _____


             ⇧⇩⇦⇨ ↺↻
```

Enter the **SECURITY CODE** and press **ENTER**.

NOTE: use the ⇧⇩   keys to select the first digit of the **SECURITY CODE**; use the ⇦⇨ arrows to go to the next or previous position, as applicable; when the complete code has been entered, press **ENTER**.

The display will show:

```
   Please wait
   connecting...
```

If the key has been properly programmed, the system returns to the beginning of the programming cycle for the next key.

When the last key in the series has been programmed, the system returns to the user data archive.

Press any key to continue.

KEY TEST

ATTENTION: To check that the memorized keys and remote controls work, test opening and closing the vehicle doors with all the remote controls and test ignition with all the memorized keys (wait 30-40 sec. between each ignition test). Repeat the operation for any keys/remote controls that fail the test.

ARCHIVING OPERATIONS - USER DATA

At the end of the programming operation the display will show:

```
Do you want to save
customer data?

          NO
         >YES


                    ⇧⇩ ⤴⤵
```

- Select YES/NO and press ENTER.
- No, to return to the screen showing IMMOBILIZER functions menu
- Yes, to memorize the data for the operation just completed
- ESC to quit.

USER DATA ARCHIVE

To enter user data the display will show:

```
   - DATES INSERTION -
    POS.:    001
    DATE:    19/07/01
 > SURNAME: XXXXXXXXXX
    NAME:    XXXXXXXXXX
    REG.MO:
    XXXXXXXXXX
                 ⇧⇩⇨ ⤴⤵
```

- SURNAME (required) (**12 characters**).
- NAME / NUMBER PLATE (optional) (**12 characters**).

The following data will be saved automatically:
- **POS.**: Location where the data will be saved
- **DATE:** Operation date
- **MAKE**: Make of the vehicle for which the operation was performed
- **MODEL**: Model of the vehicle for which the operation was performed
- **YEAR** Model year
- **Keys Mem**.: Number of keys stored in memory
- **PIN CODE**: (if storage is confirmed by an operator)
- **IMMO ID**: Immobilizer control unit ID

To enter the data:
- Use the ⇧⇩ keys to position on the desired item.
- Press ⇨ to enter and select the field where the text is to be typed.
- Press **ENTER** to confirm.
- Select **ESC** to quit and save the customer data.

```
Is the information
inserted correct?

          NO
         >YES



                 ⇧⇩ ⤴⤵
```
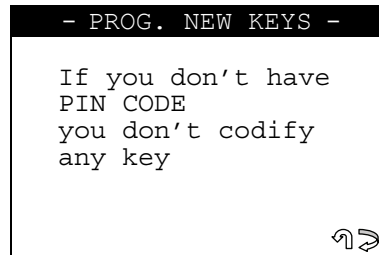
Select **YES/NO** and press **ENTER**.
- **No**, to return to the data entry screen.
- Yes, to save the customer data entered in the archive.
- Select **ESC** to quit.

1.4.3   ADD OLD KEY

This function is used to add keys that have already been programmed in the immobilizer but have been erased.
- To activate the function, select "**ADD OLD KEY**" and press **ENTER**.

The display will show:

```
┌─────────────────────────┐
│   – PROG. NEW KEYS –     │
│                         │
│  If you don't have      │
│  PIN CODE               │
│  you don't codify       │
│  any key                │
│                         │
│                      �↓ │
└─────────────────────────┘
```
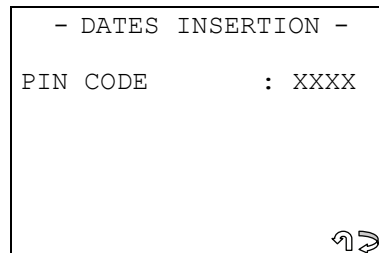
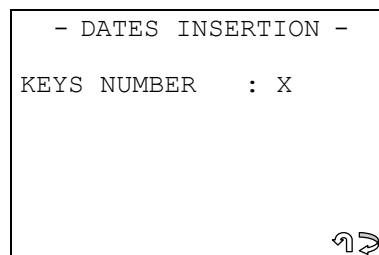To programme keys the secret 4-digit **PIN CODE** must be known.

The **PIN CODE** is obtained directly from a CHRYSLER-DODGE-JEEP dealer, against the **V.I.N.** (Vehicle Identification Number) and **IMMO ID**.
- Press ESC to return to the main menu.
- Press **ENTER** to continue

The display will show:

```
┌─────────────────────────┐
│   – DATES INSERTION –    │
│                         │
│ PIN CODE      : XXXX     │
│                         │
│                         │
│                      ↵⟳ │
└─────────────────────────┘
```

- Enter the PIN CODE and press ENTER;
- Select ESC to quit;
- Press **ENTER** to continue.

```
┌─────────────────────────┐
│   – DATES INSERTION –    │
│                         │
│ KEYS NUMBER   : X        │
│                         │
│                         │
│                      ↵⟳ │
└─────────────────────────┘
```

- Enter the NUMBER OF KEYS to be programmed and press ENTER;
- Select ESC to quit;
- Press EN**TER** to continue.

Programming of the keys in the vehicle starts now.

If a wrong PIN has been entered or if errors have occurred during communication, the display will show an error message [**ERROR 1**], [**ERROR 2**] or [**ERROR 4**] (see chapter "WARNING /ERROR MESSAGES" in the Operating Manual).

If the PIN is correct the memorization cycle for the keys to be programmed starts and the display shows:

```
      Turn ignition OFF!

       Insert the key X
       to be programmed

      Turn ignition ON!


    Press any key...
```

- Turn the key to the (OFF) position;
- Insert the key to be programmed and turn to the (ON) position;
- Press any key to continue.

Only when programming the first key the following 2 video displays appear:

```
        ECU Code:


      CC 3F 1F C6
      CC 3F 1F EE


    Press any key...
```

Figure 1

Telephone the Service Centre and communicate the **ECU code** shown above.

The Service Centre operator will communicate your **SECURITY CODE** (6 hexadecimal characters).

When in possession of the **SECURITY CODE**, press any key to continue.

```
        SECURITY CODE



         --------


                  ⇧⇩⇦⇨  ⤺⤻
```

Enter the **SECURITY CODE** and press **ENTER**.

NOTE: use the ⇧⇩ keys to select the first digit of the **SECURITY CODE**; use the ⇦⇨ arrows to go to the next or previous position, as applicable; when the complete code has been entered, press **ENTER**.

The display will show:

```
       Please wait
       connecting...


```

If the key has been properly programmed, the system returns to the beginning of the programming cycle for the next key.

When the last key in the series has been programmed, the system returns to the user data archive.

Press any key to continue.

KEY TEST

ATTENTION: To check that the memorized keys and remote controls work, test opening and closing the vehicle doors with all the remote controls and test ignition with all the memorized keys (wait 30-40 sec. between each ignition test). Repeat the operation for any keys/remote controls that fail the test.

ARCHIVING OPERATIONS - USER DATA

At the end of the programming operation the display will show:

```
Do you want to save
customer data?

        NO
       >YES


                 ⇧⇩ ↰⤳
```

- Select YES/NO and press ENTER.
- No, to return to the screen showing IMMOBILIZER functions menu
- Yes, to memorize the data for the operation just completed
- ESC to quit.

USER DATA ARCHIVE

To enter user data the display will show:

```
     - USER DATA -
   POS.:    001
   DATE:    19/07/01
>  SURNAME: XXXXXXXXXX
   NAME:    XXXXXXXXXX
   REG.MO:
   XXXXXXXXXX
                ⇧⇩⇨ ↰⤳
```

- SURNAME (required) (**12 characters**).
- NAME **/ NUMBER PLATE** (optional) (**12 characters**).

The following data will be saved automatically:
- **POS.**: Location where the data will be saved
- DATE: Operation date
- MAKE: Make of the vehicle for which the operation was performed
- MODEL: Model of the vehicle for which the operation was performed
- YEAR Model year
- Keys Mem.: Number of keys stored in memory
- PIN CODE: (if storage is confirmed by an operator)
- IMMO ID: Immobilizer control unit ID

To enter the data:
- Use the ⇧⇩ keys to position on the desired item.
- Press ⇨ to enter and select the field where the text is to be typed.
- Press ENTER to confirm.
- Select **ESC** to quit and save the customer data.

```
Is the information
inserted correct?

        NO
       >YES


                 ⇧⇩ ↰⤳
```

- Select YES/NO and press ENTER.
- No, to return to the data entry screen.
- Yes, to save the customer data entered in the archive.
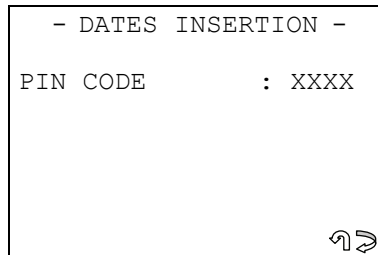- Select E**SC** to quit.

1.4.4 PROGRAMME RKE

This function is used to add remote controls.
To programme remote controls the **PIN CODE** must be known.
- To activate the function, select "**PROGRAMME RKE**" and press **ENTER**.
The display will show:

```
    - DATES INSERTION -

PIN CODE       : XXXX




                           ↰↲
```

To programme keys the secret 4-digit **PIN CODE** must be known.
The PIN CODE is obtained directly from a CHRYSLER-DODGE-JEEP dealer, against the **V.I.N.** (Vehicle Identification Number) and **IMMO ID**.
- Enter the PIN CODE and press ENTER;
- Select **ESC** to quit;

If a wrong PIN has been entered or if errors have occurred during communication, the display will show an error message [**ERROR 1**], [**ERROR 2**] or [**ERROR 4**] (see chapter "WARNING /ERROR MESSAGES" in the Operating Manual).
If the PIN is correct the display will show:

```
        ECU Code:


        CC 3F 1F C6
        CC 3F 1F EE


Press any key...
```
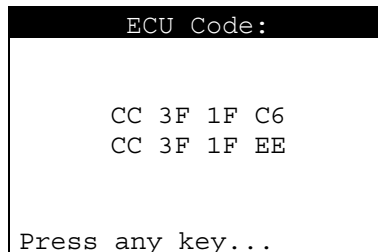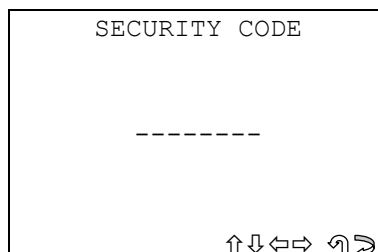
Figure 1

Telephone the Service Centre and communicate the **ECU code** shown above.
The Service Centre operator will communicate your **SECURITY CODE** (6 hexadecimal characters).
When in possession of the **SECURITY CODE**, press any key to continue.

```
        SECURITY CODE



        --------


              ⇧⇩⇦⇨ ↰↲
```

Enter the **SECURITY CODE** and press **ENTER**.
NOTE: use the ⇧⇩ keys to select the first digit of the **SECURITY CODE**; use the ⇦⇨ arrows to go to the next or previous position, as applicable; when the complete code has been entered, press **ENTER**.

The display will show:

```
Press LOCK and UNLOCK
for 5 sec.
When the buzzer sounds
RKE has been programm.
and the next one can be
programmed,

Press any key...
```

- Use the remote control to be programmed and press the LOCK and UNLOCK buttons simultaneously, holding them down for at least 5 seconds.
- A buzzer will indicate that the remote control has been programmed and another one can be used for programming.
- Press any key to continue.
- The whole operation will end automatically within 60 seconds.

KEY TEST

ATTENTION: To check that the memorized keys and remote controls work, test opening and closing the vehicle doors with all the remote controls and test ignition with all the memorized keys (wait 30-40 sec. between each ignition test). Repeat the operation for any keys/remote controls that fail the test.

1.4.5   ERASE ALL KEYS

This function is used to erase all the keys memorized in the immobilizer.

To erase keys the **PIN CODE** must be known.

- To activate the function, select "**ERASE ALL KEYS**" and press **ENTER**.

The display will show:

```
- ERASE ALL KEYS -

If you don't have
PIN CODE
you don't codify
any key


                    ⤺⤻
```

To programme keys the secret 4-digit **PIN CODE** must be known.

The PIN CODE is obtained directly from a CHRYSLER-DODGE-JEEP dealer, against the **V.I.N.** (Vehicle Identification Number) and **IMMO ID**.

- Press ESC to return to the main menu.
- Press **ENTER** to continue

The display will show:

```
- DATES INSERTION -

PIN CODE      : XXXX




                    ⤺⤻
```

- Enter the PIN CODE and press ENTER;
- Select ESC to quit;
- Press **ENTER** to continue.

If a wrong **PIN** has been entered or if errors have occurred during communication, the display will show an error message [**ERROR 1**], [**ERROR 2**] or [**ERROR 4**] (see chapter "WARNING /ERROR MESSAGES" in the Operating Manual).

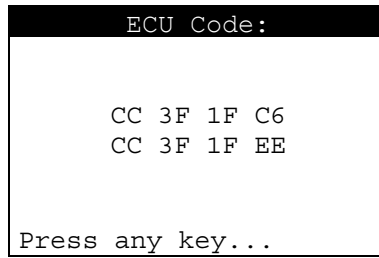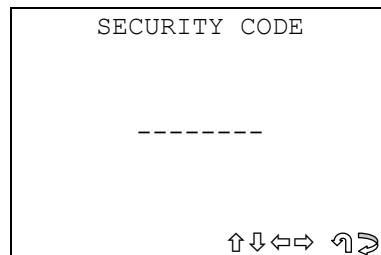If the **PIN** is correct the display will show:

```
┌─────────────────────────────┐
│         ECU Code:           │
│                             │
│                             │
│        CC 3F 1F C6          │
│        CC 3F 1F EE          │
│                             │
│                             │
│ Press any key...            │
└─────────────────────────────┘
```

Figure 1

Telephone the Service Centre and communicate the **ECU code** shown above.

The Service Centre operator will communicate your **SECURITY CODE** (6 hexadecimal characters).
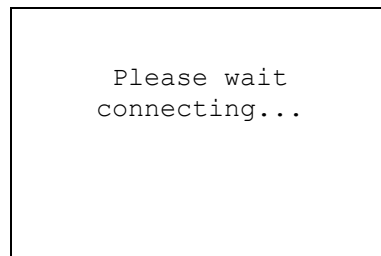
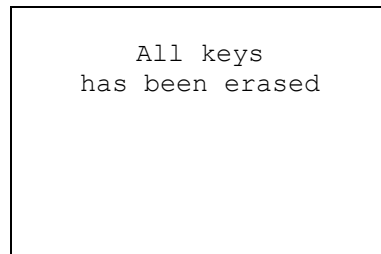When in possession of the **SECURITY CODE**, press any key to continue.

```
┌─────────────────────────────┐
│        SECURITY CODE        │
│                             │
│                             │
│         --------            │
│                             │
│                             │
│               ⇧⇩⇦⇨  ↺↻       │
└─────────────────────────────┘
```

Enter the **SECURITY CODE** and press **ENTER**.

NOTE: use the ⇧⇩ keys to select the first digit of the **SECURITY CODE**; use the ⇦⇨ arrows to go to the next or previous position, as applicable; when the complete code has been entered, press **ENTER**.

The display will show:

```
┌─────────────────────────────┐
│                             │
│        Please wait          │
│       connecting...         │
│                             │
│                             │
│                             │
│                             │
└─────────────────────────────┘
```

- Wait a few second.

```
┌─────────────────────────────┐
│                             │
│        All keys             │
│     has been erased         │
│                             │
│                             │
│                             │
│                             │
└─────────────────────────────┘
```

- Go to user data archive.

ARCHIVING OPERATIONS - USER DATA

At the end of the programming operation the display will show:

```
Do you want to save
customer data?

        NO
       >YES


                ⇧⇩ ↰⮑
```

- Select YES/NO and press ENTER.
- No, to return to the screen showing IMMOBILIZER functions menu
- Yes, to memorize the data for the operation just completed
- ESC to quit.

USER DATA ARCHIVE

To enter user data the display will show:

```
       - USER DATA -
    POS.:    001
    DATE:    19/07/01
  > SURNAME: XXXXXXXXXX
    NAME:    XXXXXXXXXX
    REG.MO:
    XXXXXXXXXX
                ⇧⇩⇨  ↰⮑
```

- SURNAME (required) (**12 characters**).
- NAME **/ NUMBER PLATE** (optional) (**12 characters**).

The following data will be saved automatically:

- POS**.**: Location where the data will be saved
- DATE**:** Operation date
- **MAKE**: Make of the vehicle for which the operation was performed
- MODEL: Model of the vehicle for which the operation was performed
- YEAR Model year
- Keys Mem.: Number of keys stored in memory
- PIN CODE: (if storage is confirmed by an operator)
- IMMO ID: Immobilizer control unit ID

To enter the data:

- Use the ⇧⇩ keys to position on the desired item.
- Press ⇨ to enter and select the field where the text is to be typed.
- Press ENTER to confirm.
- Select **ESC** to quit and save the customer data.

```
Is the information
inserted correct?

        NO
       >YES


                ⇧⇩ ↰⮑
```

- Select YES/NO and press ENTER.
- No, to return to the data entry screen.
- Yes, to save the customer data entered in the archive.
- Select **ESC** to quit.