SILCA®

SDD
SilcaDiagnosticDevice

SBB

SW- OPEL RKE-L0 / CB. -L1 (SDD/SBB)

GB

INDEX

SW- OPEL RKE-L0 / CB.-L1 (SDD/SBB)

This SW upgrade makes it possible to:
- Add/Delete Remote Controls for the following vehicles:

MODEL	*Year from*	*Year to*	*Rke*	*Page*
OPEL VAUXHALL				
AGILA	2000		ORIGINAL	4
ASTRA	1995	1998	ORIGINAL	4
ASTRA	1998		ORIGINAL	4
CORSA[ATW]	2000		ORIGINAL	22
CORSA	2000		ORIGINAL	8
FRONTERA	1996	2002	ORIGINAL	13
MERIVA[ATW]	2002		ORIGINAL	22
MERIVA	2002		ORIGINAL	8-13
OMEGA[ATW]	1995	1999	ORIGINAL	22
OMEGA	1995	1999	ORIGINAL	4
VECTRA[ATW]	1998	1999	ORIGINAL	22
VECTRA	1998	1999	ORIGINAL	4
ZAFIRA[ATW]	1999		ORIGINAL	22
ZAFIRA	1999		ORIGINAL	4

This SW upgrade makes it possible to:
- Add/Delete Keys/Remote Controls for the following vehicles:

MODEL	*Year from*	*Year to*	*Rke*	*Page*
OPEL VAUXHALL				
SIGNUM[CAN]	2003		ORIGINAL	17
VECTRA[CAN]	2004		ORIGINAL	17
HOLDEN				
VECTRA[CAN]	2003		ORIGINAL	17

ATTENTION: **to use SDD with the models listed (CAN) you NEED the CAN BUS Switch Adapter Code D726833ZB.**

NOTE **Silca S.p.A. does not provide any type of remote control for any of the models listed.**

OPEL VAUXHALL REMOTE CONTROLS

1   OPEL REMOTE CONTROL FUNCTIONS MENU (ROUTINE 5)

MODEL	Year from	Year to	Rke	Rke N.	Cable	Connector Pos. (F3-F4)	Direct Progr. (F2)	Routine
AGILA	2000		ORIGINAL	5	00	C13		5
ASTRA	1995	1998	ORIGINAL	5	00-02	C5		5
ASTRA	1998		ORIGINAL	5	00	C6		5
OMEGA	1995	1999	ORIGINAL	5	00-02	C5		5
VECTRA	1998	1999	ORIGINAL	5	00	C6		5
ZAFIRA	1999		ORIGINAL	5	00	C6		5

The functions on these vehicles are:
- Delete all remote controls;
- Add a single remote control.

Up to a maximum of 5 remote controls can be programmed simultaneously..

To make use of this function, for the model listed, use:

	SWITCH ADAPTER
CABLE OBDII [00] (STANDARD)	CABLE OPEL [02] (OPTIONAL) D722733ZB For models <1997
New key/s (Max 5)	**PIN CODE** 4 digit numerical On the Car Pass label
REMOTE CONTROL TO BE PROGRAMMED	

Fig. 1

SBB	CABLE/ADAPTER
	 CABLE OBD II [00] (STANDARD)
	 CABLE OPEL [02] (OPTIONAL) D722733ZB For models <1997

Fig. 2

WHERE TO FIND THE PLUG DIAGNOSTICS
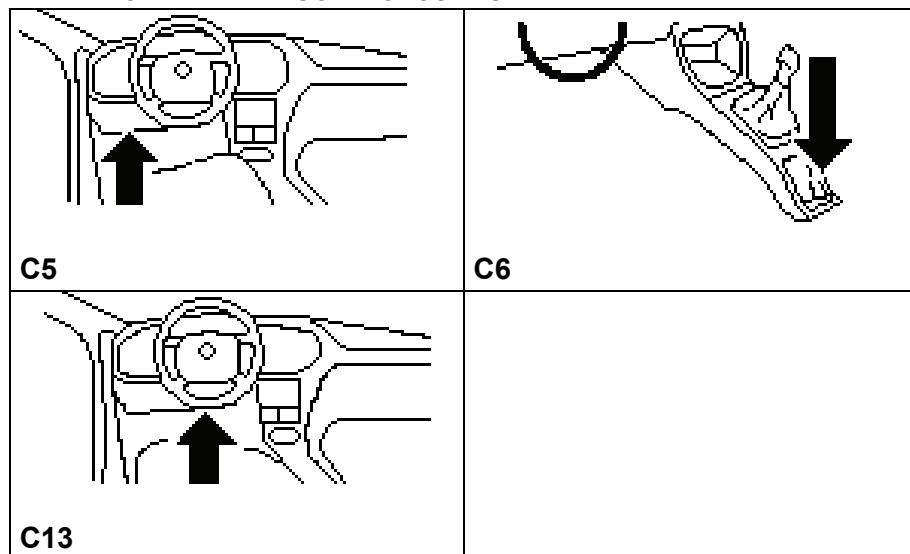
C5

C6

C13

*Fig. 3*

From the "REMOTE CONTROLS" menu select the specific vehicle model and press **ENTER**:

```
        Insert the key
         and turn on
         the console




              (ESC)    ⮐
```

NOTE   **One remote control only is associated to each single key. Therefore the number of remote controls enabled will be the same as the number of operational keys (max. 5).**

ATTENTION: **If the remote control to be programmed is located in the head of the key (operational), fit the key into the ignition and programme the remote control.**

- Press **ESC** to quit**;**
- Fit a key into the block and turn to the **ON position**;
- Press **ENTER** to continue.

The display will show:

```
┌─────────────────────────────┐
│        - OPEL (5) -         │
│  >  TLC PROGRAM             │
│     TLC DELETE              │
│                             │
│                             │
│                             │
│                             │
│              ⇧⇩(ESC) ↺⇴     │
└─────────────────────────────┘
```
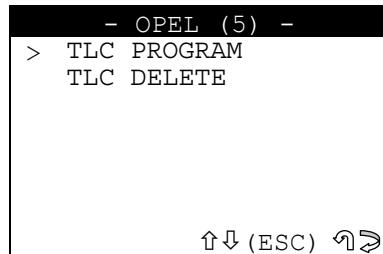
- Select and press **ENTER**.

1.1   TLC PROGRAM

This function is used to add remote controls.

- To activate the function select "**TLC PROGRAM**" and press **ENTER**.

The display will show:

```
┌─────────────────────────────┐
│       TLC PROGRAM           │
│       OPERATE THE           │
│       REMOTE CONTROL        │
│                             │
│                             │
│                             │
│                             │
└─────────────────────────────┘
```
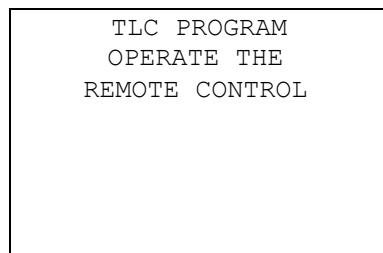
- Press any key on the remote control to be programmed (within 10 seconds).

If no key on the remote control is pressed within 10 seconds or if the remote control is not compatible with the selected vehicle model, a msg [ERROR 6] appears and you are returned to the main menu.

If the SDD/SBB programming procedure is successful, the display will show:

```
┌─────────────────────────────┐
│     THE REMOTE CONTROL      │
│       IS PROGRAMMED         │
│                             │
│                             │
│                             │
│  Press any key...           │
└─────────────────────────────┘
```
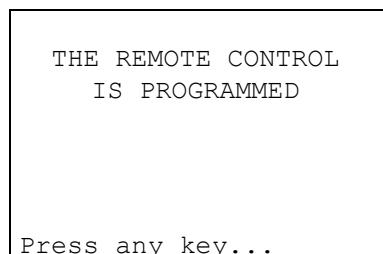
The remote control is now programmed and operational.
- Press any key to return to the main menu.

1.2   DELETE TLC

This function is used to delete all the remote controls.

- To activate the function, select "**DELETE TLC**" and press **ENTER**.
The display will show:

```
          DELETE TLC

Want to go on?
            >YES
             NO


                 ⇧⇩⇨ ⊋(ESC)
```

- Select YES/NO and press ENTER;
- No, returns to the previous menu;
- Ye**s,** proceeds with deleting all the remote controls.

The display will show:

```
          All the RKE
        Has been erased




Press any key...
```
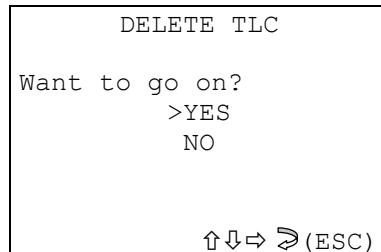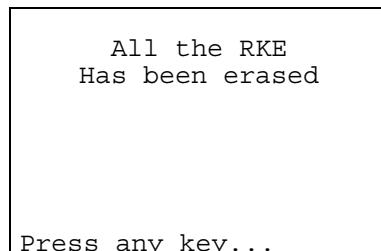
All the remote controls are now deleted.
- Press any key to continue and return to the main menu.

2   OPEL REMOTE CONTROL FUNCTIONS MENU (ROUTINE 6)

MODEL	Year from	Year to	Rke	Rke N.	Cable	Connector Pos. (F3-F4)	Direct Progr. (F2)	Routine
OPEL VAUXHALL								
CORSA	2000		ORIGINAL	5	00	C11		6
MERIVA	2002		ORIGINAL	5	00			6

The functions on these vehicles are:

- Delete all remote controls;
- Add remote controls;
- Read the number of TLCs programmed.

Up to a maximum of 5 remote controls can be programmed simultaneously.

To make use of this function, for the model listed, use:

SWITCH ADAPTER

CABLE OBDII [00] (STANDARD)

Car Pass

REMOTE CONTROL TO BE PROGRAMMED

4 digit numerical
On the Car Pass label

PIN CODE

Fig. 4

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

Fig. 5

WHERE TO FIND THE PLUG DIAGNOSTICS
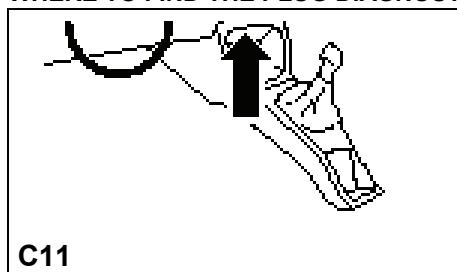
C11

Fig. 6

From the "**REMOTE CONTROLS**" menu select the specific vehicle model and press **ENTER**:

```
        Insert the key
          and turn on
          the console




               (ESC)    ⇗
```

NOTE   **One remote control only is associated to each single key. Therefore the number of remote controls enabled will be the same as the number of operational keys (max. 5).**

ATTENTION: **If the remote control to be programmed is in the head of the key (operational), fit the key into the ignition and programme the remote control.**

- Press ESC to quit;
- Fit a key into the block and turn to the ON position;
- Press **ENTER** to continue.

The display will show:

```
        - OPEL (6) -
>  TLC PROGRAM
   TLC DELETE
   No. TLC IN MEM.



          ⇧⇩(ESC) ↺⇗
```
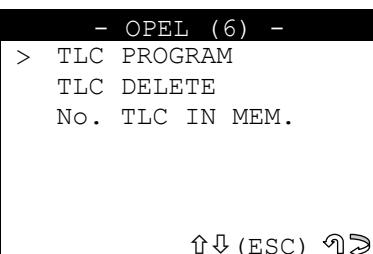
- Select and press **ENTER**.

2.1   TLC PROGRAM

This function is used to add remote controls.

- To activate the function select "**TLC PROGRAM**" and press **ENTER**.
The display will show:

```
  - DATES INSERTION -



PIN CODE          :XXX



                  (ESC) ⮐
```
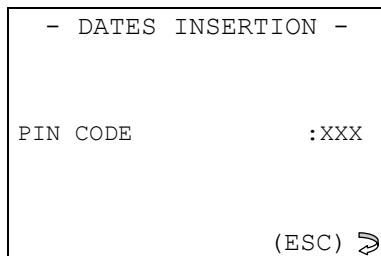
- Press ESC to quit;
- Insert the SECURITY CODE (secret four-digit number on the CAR PASS card, see Fig. 4 page 8);
- Press **ENTER** to continue.

If the Security code is wrong a msg [ERROR 4] will appear and you are returned to the main menu; if the code is correct, the operation proceeds:

```
       OPERATE THE
      REMOTE CONTROL



```
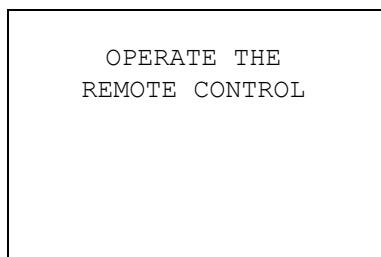
- Press any key on the remote control to be programmed (within 10 seconds).

If no key on the remote control is pressed within 10 seconds or if the remote control is not compatible with the selected vehicle model, a msg [ERROR 6] will appear and you are returned to the main menu.

If the SDD/SBB programming procedure is successful, the display will show:

```
   THE REMOTE CONTROL
     IS PROGRAMMED



Press any key...
```
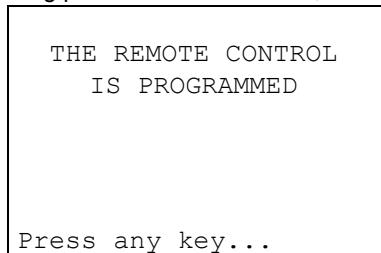
The remote control is now programmed and operational.

- Press any key to return to the main menu.

2.2   DELETE TLC

This function is used to delete all the remote controls.

- To activate the function select "**DELETE TLC**" and press **ENTER**.
The display will show:

```
          DELETE TLC

Want to go on?
            >YES
             NO


                   ⇧⇩⇨ ⊋(ESC)
```
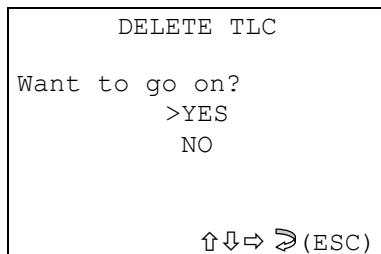
- Select YES/NO and press ENTER;
- No, returns to the main menu;
- Yes, proceeds to delete all the remote controls.
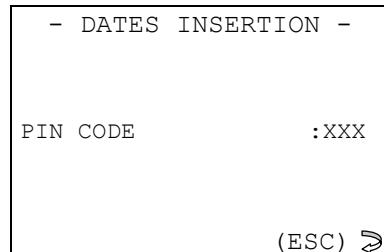
The display will show:

```
 - DATES INSERTION -



PIN CODE           :XXX



                   (ESC) ⊋
```

- Press ESC to quit;
- Insert the SECURITY CODE (secret four-digit number on the CAR PASS card, see Fig. 4 page8);
- Press **ENTER** to continue.

If the Security code is wrong a msg [ERROR 4] appears and you are returned to the main menu; if the code is correct, the operation proceeds:

```
       All the RKE
     Has been erased




Press any key...
```
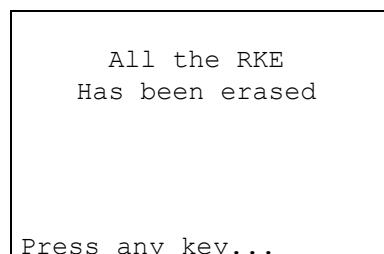
All remote controls are now deleted.

- Press any key to continue and return to the main menu.

2.3   N.RO TLC IN MEM.

This function is used to read how many remote controls have been memorized.

-    To activate the function select "**No. TLC IN MEM**" and press **ENTER**.
The display will show::

```
TLC 1          STATE
TLC 2            "
TLC 3            "
TLC 4            "
TLC 5            "

Press any key...
```

The five lines indicate the 5 positions in the memory of the remote controls in the central control unit. Each position has a corresponding STATE:

-    PROG -> Remote control programmed;
-    NOT PROG-> Remote control not programmed;
-    Press any key to return to the main menu.

3 OPEL REMOTE CONTROL FUNCTIONS MENU (ROUTINE 9)

MODEL	Year from	Year to	Rke	Rke N.	Cable	Connector Pos. (F3-F4)	Direct Progr. (F2)	Routine
OPEL VAUXHALL								
FRONTERA	1996		ORIGINAL	5	00-02	C16		9

The functions on these vehicles are:

- Delete all remote controls;
- Add a single remote control.

Up to a maximum of 5 remote controls can be programmed simultaneously.

To make use of this function, for the model listed, use:

SWITCH ADAPTER

CABLE OBDII [00] (STANDARD)

CABLE OPEL [02] (OPTIONAL)
D722733ZB
For models <1997

PIN CODE

4 digit numerical
On the Car Pass label

REMOTE CONTROL TO BE PROGRAMMED

Fig. 7

SBB	CABLE/ADAPTER
	 CABLE OBD II [00] (STANDARD)
	 CABLE OPEL [02] (OPTIONAL) D722733ZB For models <1997

Fig. 8

WHERE TO FIND THE PLUG DIAGNOSTICS
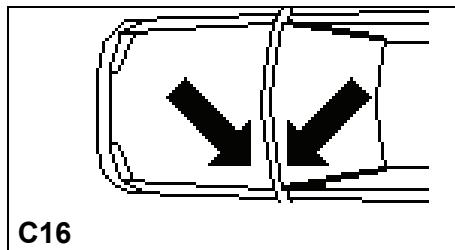
C16

Fig. 9

Select the specific vehicle model from the "REMOTE CONTROLS" menu and press **ENTER**:
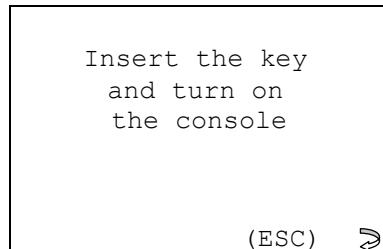
```
        Insert the key
         and turn on
         the console



                 (ESC)    ⇗
```

NOTE   **One remote control only is associated to each single key. Therefore the number of remote controls enabled will be the same as the number of operational keys (max. 5).**

ATTENTION: **If the remote control to be programmed is in the head of the key (operational), fit the key into the ignition and programme the remote control.**

-   Press ESC to quit;
-   Fit a key into the block and turn to the ON position;
-   Press **ENTER** to continue.

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The display will show:

```
      - OPEL (9) -
>  TLC PROGRAM
   TLC DELETE




            ⇧⇩(ESC) ⤳
```
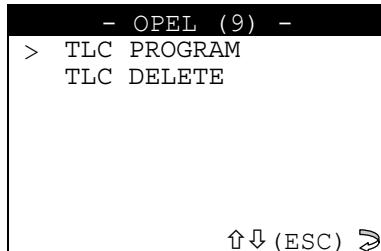
- Select and press **ENTER**.

3.1   TLC PROGRAM

This function is used to add remote controls.

- To activate the function select "**TLC PROGRAM**" and press **ENTER**.
The display will show:

```
  - DATES INSERTION -
PIN CODE           :XXX






              (ESC) ⤳
```
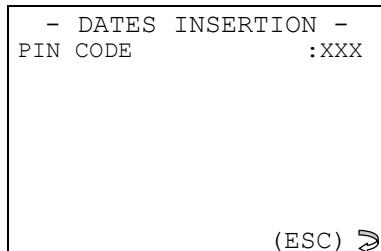
- Press ESC to quit;
- Insert the SECURITY CODE (secret four-digit number on the CAR PASS card, see Fig. 7 page 13);
- Press **ENTER** to continue.

The vehicle begins remote control programming. If the Security Code is wrong or if there are communication errors, the display will show a msg [ERROR 1] (see operating manual - Ch. on errors).
If there are no problems, the display will show:
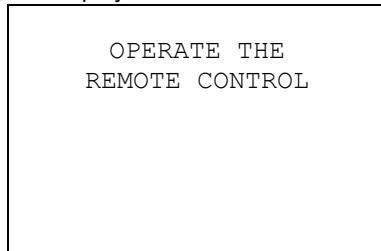
```
      OPERATE THE
     REMOTE CONTROL




```

- Press any key on the remote control to be programmed (within 10 seconds).

If no key is pressed on the remote control within 10 seconds or if the remote control is not compatible with the selected vehicle model, the display will show a msg [ERROR 6] and you are returned to the main menu.
If the SDD/SBB programming procedure has been carried out successfully, the display will show:

```
    THE REMOTE CONTROL
      IS PROGRAMMED




  Press any key...
```
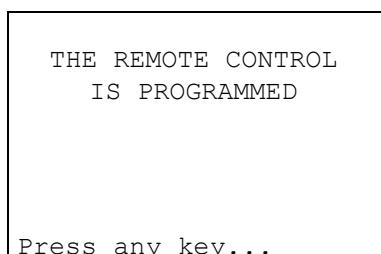
The remote control is now programmed and operational.

- The remote control is now programmed and operational.

3.2 DELETE TLC

This function is used to delete all the remote controls.

- To activate the function select "**DELETE TLC**" and press **ENTER**.
The display will show:

```
         DELETE TLC

Want to go on?
            >YES
             NO


                   ⇧⇩⇨ ⤳(ESC)
```

- Select YES/NO and press ENTER;
- No, returns to the main menu;
- Yes, proceeds with deleting all the remote controls.

The display will show:

```
  - DATES INSERTION -



PIN CODE          :XXX


                   (ESC) ⤳
```
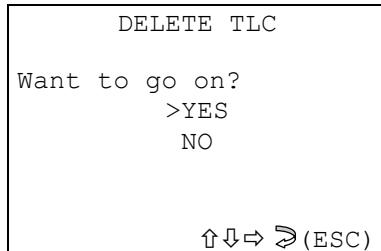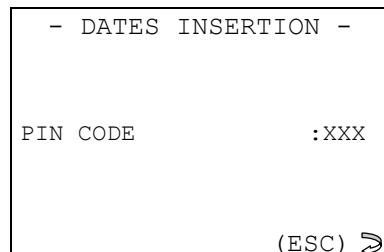
- Press ESC to quit;
- Insert the SECURITY CODE (secret four-digit number on the CAR PASS card, see Fig. 7 page 13);
- Press **ENTER** to continue.

The vehicle begins remote control deletion.
If the Security code is wrong a msg [ERROR 1] appears (see operating manual - Ch. on errors)
and you are returned to the main menu; if the code is correct, the operation proceeds:

```
     All the RKE
   Has been erased




Premi un tasto…
```
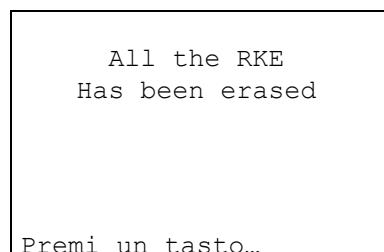
All the remote controls are deleted.
Press any key to continue and return to the main menu.

4   OPEL CAN REMOTE CONTROLS FUNCTION MENU (ROUTINE 10)

New generation vehicles use a new communication technology known as CAN BUS (Controller Area Network). This system has been designed to avoid the problem in modern vehicles of overcrowded electrical wiring due to electronically controlled functions. On most vehicles today a single electrical wire serves a single function, i.e. it powers a given component or receives or sends given information. CAN makes use of a «multiplex» network connection that links the various central control units and transmits data and controls along a single line (aka «data bus»).

OPERATING NOTES

MODEL	Year from	Year to	Rke	Rke N.	Cable	Connector Pos. (F3-F4)	Direct Progr. (F2)	Routine
OPEL VAUXHALL								
SIGNUM [CAN]	2003		ORIGINAL	5	00			10
VECTRA [CAN]	2004		ORIGINAL	5	00	C6		10
HOLDEN								
VECTRA [CAN]	2004		ORIGINAL	5	00	C6		10

The functions on these vehicles are:

- Delete all the keys/remote controls;
- Add a key or remote control;
- Read the number of remote controls programmed.

Up to a maximum of 5 keys/remote controls can be programmed simultaneously.

ATTETION: **The new generation OPEL keys integrate the Remote Control Function inside the transponder. When a key is programmed the remote control associated to it is also programmed automatically.**

To make use of this function, for the model listed, use:

	Switch Adapter CAN BUS - D726833ZB
CABLE OBDII [00] (STANDARD)	
Key/remote control to be programmed	4 digit numerical On the Car Pass label **PIN CODE**

Fig. 10

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

Fig. 11

WHERE TO FIND THE PLUG DIAGNOSTICS

C6

*Fig. 12*

Select the specific vehicle model from the "**REMOTE CONTROLS**" menu and press **ENTER**:
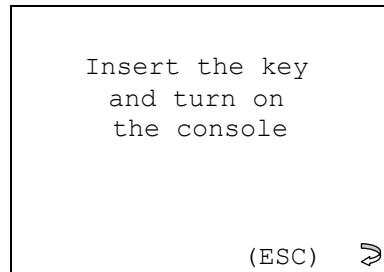
```
        Insert the key
         and turn on
         the console




                  (ESC)   ⇒
```

- Press **ES**C to quit;
- Fit a key into the block and turn to the ON position;
- Press EN**TER** to continue.

The display will show:

```
       - OPEL (CAN) -
 >   PROG. NEW KEYS
     ERASE ALL KEYS
     No. KEYS MEM.



           ⇧⇩(ESC) ⤺⇒
```
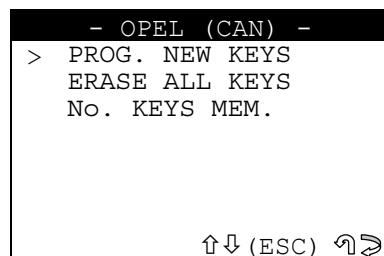
Select and press **ENTER**.

4.1   PROG. NEW KEYS

Questa funzione permette di aggiungere Chiavi/Telecomandi nell'immobilizer.

- To activate the function select "**PROG. NEW KEYS**" and press **ENTER**.
The display will show:

```
     - PROG. NEW KEYS -
    If you don.t have
         PIN CODE
     you don.t codify
          any key


                  (ESC)   ⇒
```
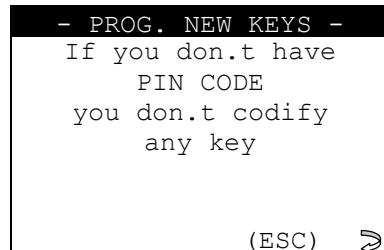
- Press ESC to quit;
- Press ENTER to continue;
The display will show:
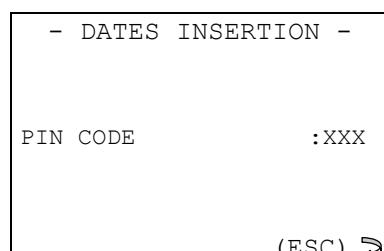
```
    - DATES INSERTION -


 PIN CODE          :XXX



              (ESC) ⇒
```

- Press ESC to quit;
- Insert the SECURITY CODE (secret four-digit number on the CAR PASS card, see Fig. 10 page 18);
- Press ENTE**R** to continue.

The vehicle begins programming the keys/remote controls.

If the Security code is wrong or there are communication errors the display will show a msg [ERROR 4] (see operating manual - Ch. on errors).

If there are no problems, the display will show (**):

```
   Insert the new key
    to be programmed.
     Turn ignition on!




   Press any key...
```
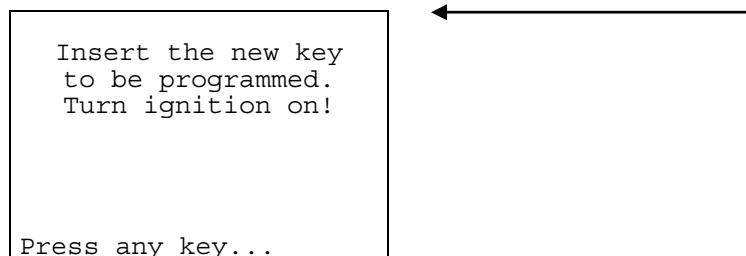
- Fit the key/remote control to be programmed into the block and turn to the ON position;
- Press any key to continue.
The display will show:

```
     Extract the KEY




   Premi un tasto...
```
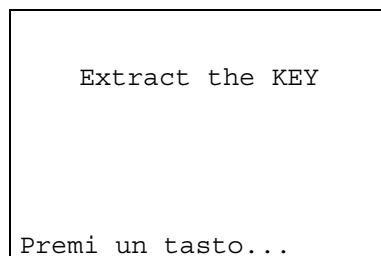
- Remove the key/remote control from the block;
- Press any key to continue.
The display will show:

```
     Turn ignition on!




   Press any key...
```
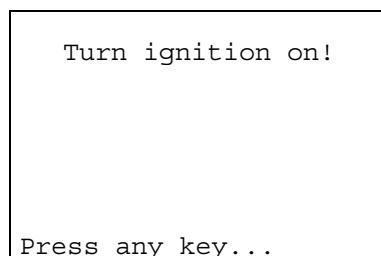
- Re-insert the key to be programmed and turn to the **ON position**;
- Press any key to continue.

If there are communication errors or if the key used is wrong, the display will show a msg [ERROR 5] (see operating manuale - Ch. errors).
If there are no problems, the display will show:

```
   The key have been
        memorized!
      Other keys to
        memorize?



              (ESC) ⤻
```
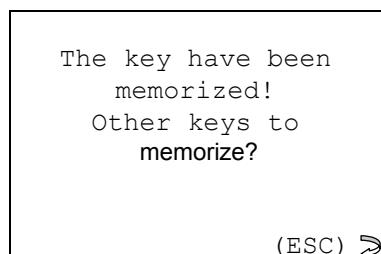
- Press **ENTER** to programme other keys (repeat operations from (**));
- Press **ESC** to go to data archiving.

4.2   DELETE TLC

This function is used to delete all keys/remote controls.

- To activate the function select "**ERASE ALL KEYS**" and press ENTER.
The display will show:
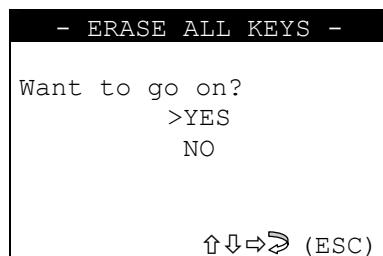
```
┌─────────────────────────────┐
│   - ERASE ALL KEYS -        │
│                             │
│ Want to go on?              │
│         >YES                │
│          NO                 │
│                             │
│                             │
│            ⇧⇩⇨⤵ (ESC)       │
└─────────────────────────────┘
```

- Select YES/NO and press ENTER;
- No, returns to the previous menu;
- Yes, proceeds with deleting all the remote controls.

The display will show:

```
┌─────────────────────────────┐
│      All the RKE            │
│    Has been erased          │
│                             │
│                             │
│                             │
│                             │
│ Press any key...            │
└─────────────────────────────┘
```
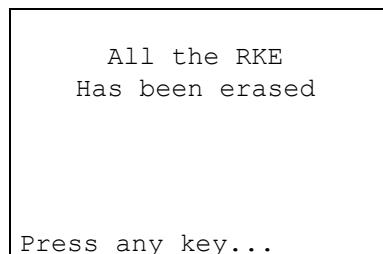
NOTES: **If the remote control to be programmed is located in the head of the key, fit the key into the ignition and programme the remote control.**

5   OPEL ATW REMOTE CONTROL FUNCTIONS MENU (ROUTINE 11)

ATW vehicles are cars that have an IMMOBILIZER anti-start device, as well as a supplementary anti-theft device which is usually fitted by the vehicle manufacturer.
These vehicles are distinguished by the key shown in the Fig. 13, located on the central module.

MODEL	Year from	Year to	Rke	Rke N.	Cable	Connector Pos. (F3-F4)	Direct Progr. (F2)	Routine
OPEL VAUXHALL								
CORSA [ATW]	2000		ORIGINAL	5	00	C11		11
MERIVA [ATW]	2002		ORIGINAL	5	00			11
OMEGA [ATW]	1995	1999	ORIGINAL	5	00-02	C5		11
VECTRA [ATW]	1998	1999	ORIGINAL	5	00	C5		11
ZAFIRA [ATW]	1999		ORIGINAL	5	00	C6		11

Fig. 13

The functions on these vehicles are:

-    Delete all remote controls;
-    Add a remote control.

Up to a maximum of 5 remote controls can be programmed simultaneously.

To make use of this function, for the model listed, use:

	SWITCH ADAPTER
CABLE OBDII [00] (STANDARD)	CABLE OPEL [02] (OPTIONAL) D722733ZB For models <1997
OPEL ⊖ Car Pass	VIN　　　　　WOLOJBF35Y7069838 Security Code　　　　0000 Engine Type/No　X20DTH 17854813 Key No　　　　　　H0000 Radio Type/Code Serial No CD-Changer Type/Code Serial No Phone/Telematic Type Serial No　　　　　　FA 232 4 digit numerical On the Car Pass label
REMOTE CONTROL TO BE PROGRAMMED	

Fig. 14

SBB	CABLE/ADAPTER
	CABLE OBD II [00] (STANDARD)
	CABLE OPEL [02] (OPTIONAL) D722733ZB For models <1997

Fig. 15

WHERE TO FIND THE PLUG DIAGNOSTICS
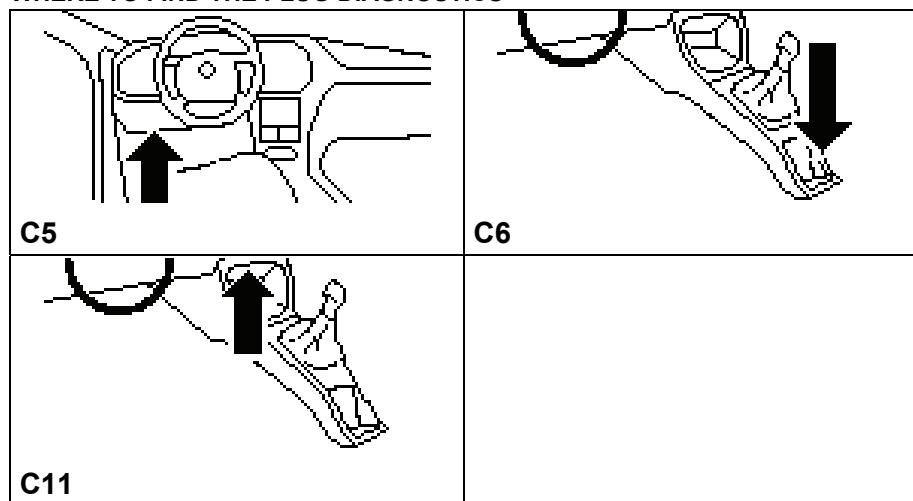
C5

C6

C11

Fig. 16

Select the specific vehicle model from the "REMOTE CONTROLS" menu and press **ENTER**:
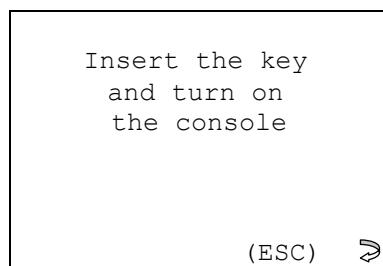
```
          Insert the key
          and turn on
          the console




                    (ESC)  ⋑
```

NOTE   **One remote control only is associated to each single key. Therefore the number of remote controls enabled will be the same as the number of operational keys (max. 5).**

ATTENTION: **If the remote control to be programmed is located in the head of the key (operational), fit the key into the ignition and programme the remote control.**

- Press ESC to quit;
- Fit a key into the block and turn to the ON position;
- Press **ENTER** to continue.

The display will show:

```
       -  OPEL (ATW)  -
  >  TLC PROGRAM
     TLC DELETE




                  ⇧⇩(ESC) ⋑
```
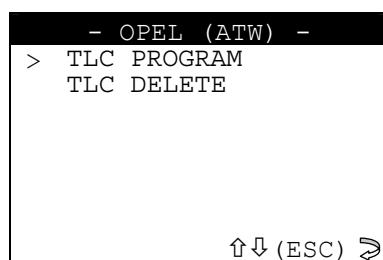
- Press **ESC** to quit;
- Select and press **ENTER**.

5.1 TLC PROGRAM

This function is used to add remote controls.

- To activate the function select "**TLC PROGRAM**" and press **ENTER**.
The display will show:

```
┌─────────────────────────┐
│ -REMOTE CONTROL POS.-    │
│ > POSITION 1             │
│   POSITION 2             │
│   POSITION 3             │
│   POSITION 4             │
│   POSITION 5             │
│   EXIT                   │
│                          │
│            ⇧⇩(ESC) ⊋    │
└─────────────────────────┘
```
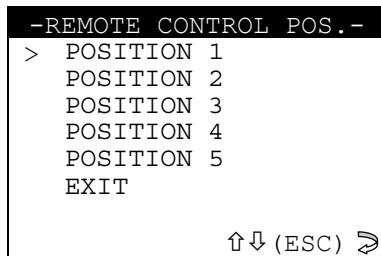
- Select ESC to return to the main menu.
- Select any position to programme two remote controls in the same position without creating problems. Press **ENTER.**
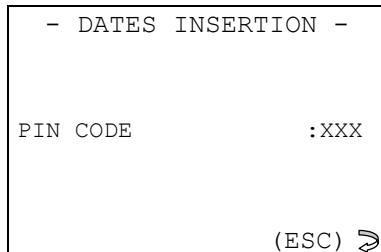
```
┌─────────────────────────┐
│  - DATES INSERTION -     │
│                          │
│                          │
│                          │
│ PIN CODE        :XXX     │
│                          │
│                          │
│                 (ESC) ⊋  │
└─────────────────────────┘
```

- Press ESC to quit;
- Insert the SECURITY CODE (secret four-digit number on the CAR PASS card see Fig. 14 page 23);
- Press **ENTER** to continue.

The vehicle programmes the remote control. If the Security code is wrong or if there are communication errors, the display will show a msg [ERROR 4] (see operating manual - Ch. on errors).

If there are no problems the display will show:

```
┌─────────────────────────┐
│                          │
│       OPERATE THE        │
│     REMOTE CONTROL       │
│                          │
│                          │
│                          │
│                          │
│                          │
└─────────────────────────┘
```

- Press any key on the remote control to be programmed (within 10 seconds).

If no key is pressed on the remote control within 10 seconds, or if the remote control is not compatible with the selected vehicle model, the display will show a msg [ERROR 6] and you are returned to the main menu.

If the SDD/SBB programming procedure has been carried out successfully, the display will
show:

```
┌─────────────────────────────┐
│                             │
│     THE REMOTE CONTROL      │
│       IS PROGRAMMED         │
│                             │
│                             │
│                             │
│                             │
│  Press any key...           │
└─────────────────────────────┘
```
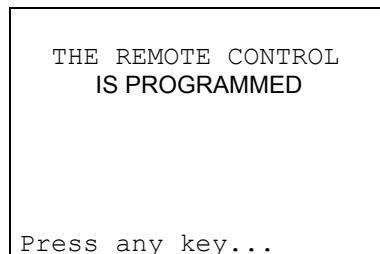
The remote control is programmed and operational.
-        Press any key to return to the main menu.

Two remote controls can be programmed in the same position without creating problems.

5.2   DELETE TLC

This function is used to delete all the remote controls.

-        To activate the function select "**DELETE TLC**" and press **ENTER.**
The display will show:

```
┌─────────────────────────────┐
│          DELETE TLC         │
│                             │
│  Want to go on?             │
│            >YES             │
│             NO              │
│                             │
│                             │
│             ⇧⇩⇨ ⮐(ESC)     │
└─────────────────────────────┘
```

-        Select YES/NO and press ENTER;
-        No, returns to the previous menu;
-        Yes, proceeds with deleting all the remote controls.

The display will show:

```
┌─────────────────────────────┐
│   - DATES INSERTION -       │
│                             │
│                             │
│  PIN CODE           :XXX    │
│                             │
│                             │
│                 (ESC) ⮐     │
└─────────────────────────────┘
```
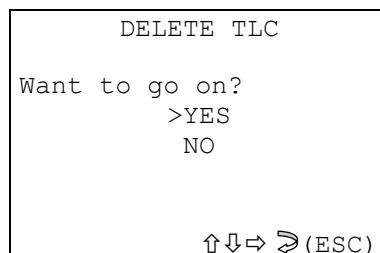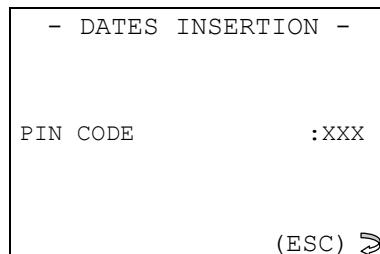
-        Press ESC to quit;
-        Insert the SECURITY CODE (secret four-digit number on the CAR PASS card, see Fig. 14
         page 23);
-        Press **ENTER** to continue.

The vehicle deletes the remote controls. If the Security code is wrong the display will show a msg [ERROR 4] (see operating manual - Ch. on errors) and you are returned to the main menu.
If the code is correct, the operation proceeds:

```
      All the RKE
    Has been erased




Press any key...
```
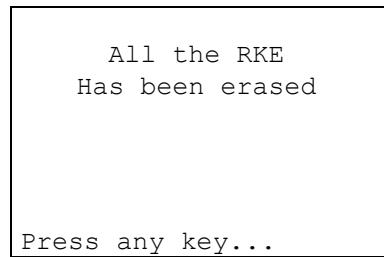
All remote controls are now deleted.
Press any key to continue and return to the main menu.

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