

**AS 80**

Cod.3450.0083

**KIT AS 80 - 81 - 82 - 83 - 84 - 85 - 86  
REMOTE-CONTROLLED ALARM UNIT**

Frequency 433.92 Mhz - Random Code - European Standards

01 A - 00 0265

- Installation possible on all vehicles with 12 V battery with earthed negative.
- To be fitted inside vehicle.
- Carefully read the following instructions and technical specifications.
- Before fitting the appliance, it is best to become acquainted with the precautions to be taken. These are shown in the "Operator's and Maintenance" booklet.
- This product is made taking into account the technical requirements of the European Directive on Alarm Systems 95/54/CE.



**CAUTION!** This appliance is made only for very low safety voltages. Connections to circuits with hazardous voltages could be dangerous.



This appliance must only be powered by batteries or safety stabilized supply units featuring 12V DC short-circuit cutouts. Do not connect any terminal to parts with hazardous voltage.



Carry out the installation AFTER disconnecting the vehicle battery.



This product must be fitted by a professional installer. THE INSTALLATION CERTIFICATE (supplied together with the WARRANTY CERTIFICATE, to be completed and returned) must be completed by the installer. Any amendments or additions not shown in this manual shall automatically invalidate the INSTALLATION CERTIFICATE.

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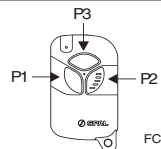
**TECHNICAL SPECIFICATIONS**

- Power Supply** ..... 12 V (10 V min + 16 V max)  
**Max unit current absorption (@ 12V)** ..... 11 mA  
**Operating temperature** ..... - 40°C + + 85°C  
**Initial neutral time** ..... 40 sec.  
**Duration of alarm** ..... 30 sec.  
**Alarm recycle time** ..... 5 sec.  
**Direction indicator relay capacity** ..... 7 + 7 A  
**Power locking system relay capacity** ..... 15 A  
**Negative output max. capacity (AUX1 - Engine Cut - Dome Light)** ..... 300 mA

**Optional accessories:**

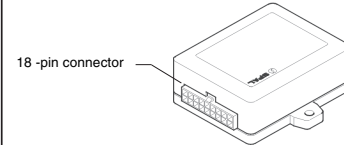
- Back-up battery siren SIR 2 Code 3560.0104
- Back-up battery siren SIR 5 Code 3560.0106
- Siren without back-up battery SIR 4 Code 3560.0103
- Ultrasonic module MUS 3 Code 3560.0034
- Hyperfrequency module Code 3560.0014
- Dual zone Hyperfrequency module Code 3560.0012
- Dual zone Shock Sensor Module MSS 2 Code 3560.0020
- Anti-carlift module MTS 1 Code 3560.0017
- Universal power windows module MAV 6 Code 3560.0003
- Power windows module MAV 8 Code 3560.0011
- Relay 12 V - 30 A (N.O.) Code 3304.0071
- Relay 12 V - 15/30 A (N.C./N.O.) Code 3304.0079
- Wires for connecting 2 external modules Code 6000.5048
- Extended Range Antenna Code 3560.0010

**GENERAL FEATURES**

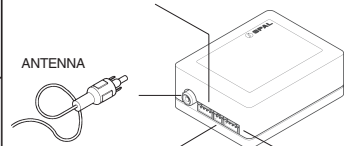


**LOW BATTERY INDICATOR**

If the battery of the remote control unit is low, this is indicated by the flashing of the LED on the unit itself, when a key is pressed, and by 6 fast flashes of the direction indicators at arming.



WHITE connector for SPAL modules



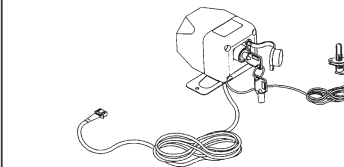
ANTENNA

WHITE connector for LED

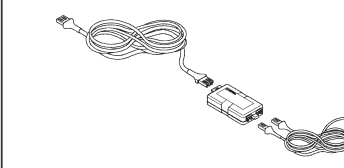
BLACK connector for SPAL siren



Back-up battery siren SIR 5 with integrated hood pin-switch cable. Code 3560.0106

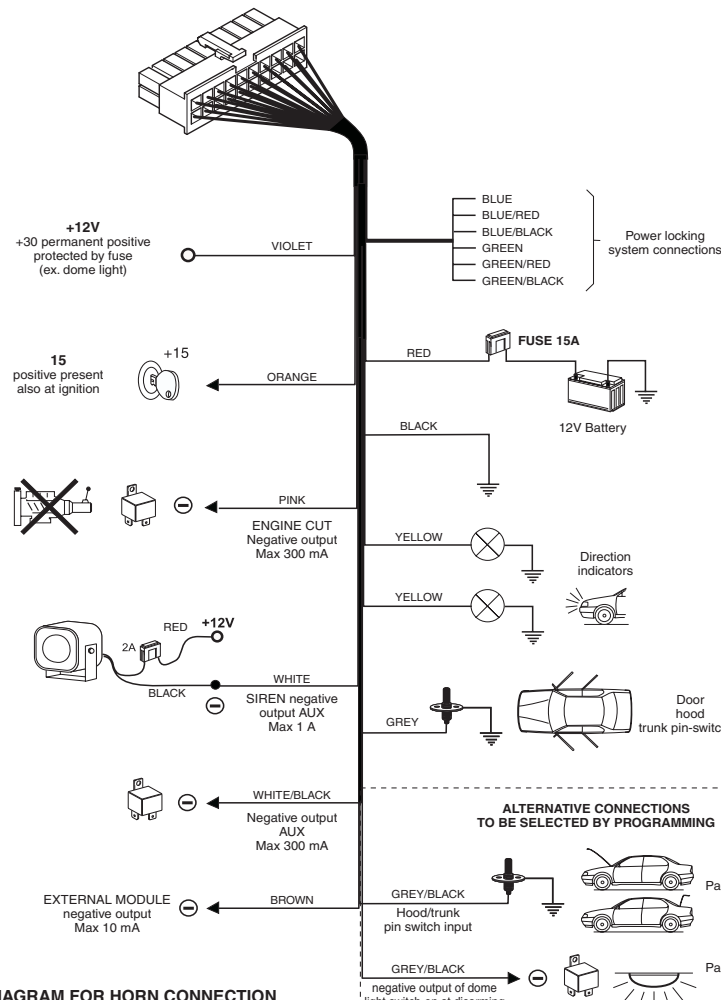


Ultrasonic module MUS 3 Code 3560.0034

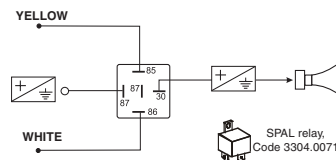


**A**

**WIRING DIAGRAM**



**DIAGRAM FOR HORN CONNECTION**



**For negative output wiring:**  
 - ENGINE CUT  
 - AUX OUTPUT  
 - DOME LIGHT AT DISARMING  
 always use an additional relay.

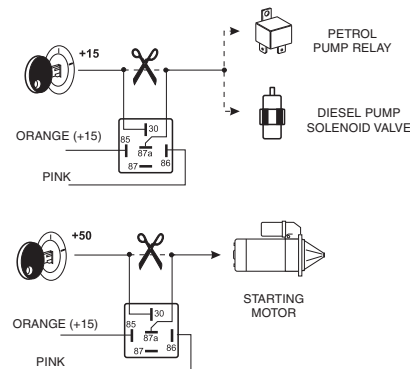
**B**

**ENGINE CUT CONNECTION**

To achieve engine cut, connect an additional relay to the PINK wire. Interrupt the starting motor control (+50) or the fuel pump.

- 1) SPAL relay with normally-closed contact Code 3304.0079. Make one of the connections shown below. The programmable function (Box L) on Page 2/Step 5 must be OFF (standard programming).
- 2) SPAL relay with normally-closed contact Code 3304.0071. Make one of the connections shown below using terminal 87 in place of 87A. The programmable function (Box L) on Page 2/Step 5 must be ON.

**WARNING: Do not interrupt ignition systems on petrol-driven vehicles with Catalytic exhaust!**



A double engine cut can be achieved by connecting the two relays shown in parallel (max. current absorption 300 mA)

**E**

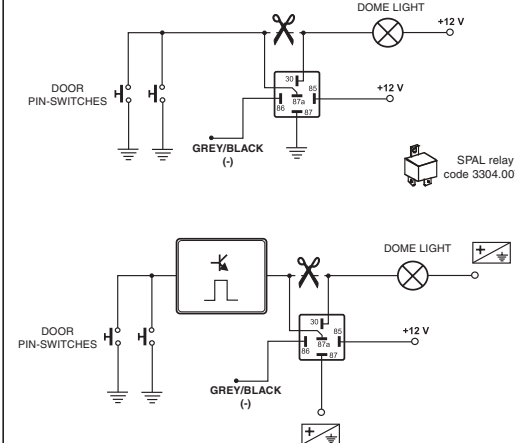
**DOME LIGHT SWITCH-ON**

To switch the vehicle dome-light on at door unlocking by means of the remote control, connect as follows.

Note: Do not connect the GREY/BLACK wire to dome light: use an additional relay code 3304.0079.

**ENABLE FUNCTION** Pag. 3 / Step 5 in user programming (box L, Page 3 / Step 5 = ON)

**WIRING DIAGRAMS**

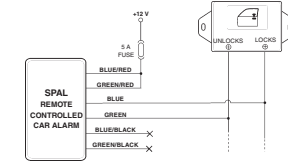


If this function is not used, the GREY/BLACK wire is a negative perimeter alarm input. Box M: programmable function Page 3/Step 5 = OFF

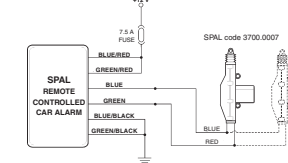
**C**

**POWER LOCKING SYSTEM CONTROL DIAGRAMS**

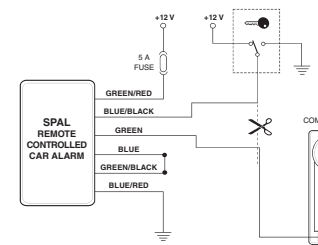
**DIAGRAM 1 POSITIVE CONTROL STANDARD SYSTEM**



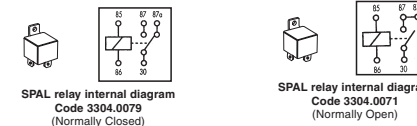
**DIAGRAM 3 STANDARD SYSTEM WITHOUT ACTUATOR, DRIVER'S SIDE**  
Fit a SPAL actuator code 3700.0007 in the door, driver's side.



**DIAGRAM 5 ELECTRO-PNEUMATIC CONTROLLED STANDARD SYSTEM**

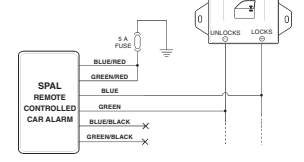


**RELAY INTERNAL DIAGRAMS**

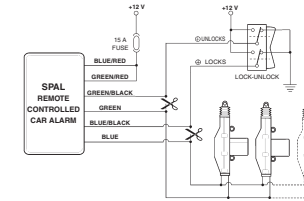


**D**

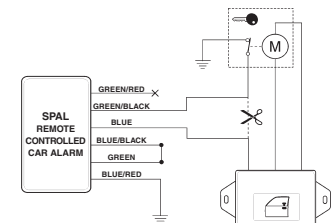
**DIAGRAM 2 NEGATIVE CONTROL STANDARD SYSTEM**



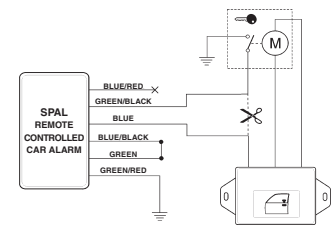
**DIAGRAM 4 SYSTEM WITHOUT CONTROL UNIT WITH STANDARD LOCK/UNLOCK BUTTON**



**DIAGRAM 6A STANDARD SYSTEM WITH SINGLE NEGATIVE CONTROL AT LOCKING**



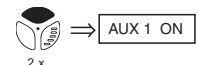
**DIAGRAM 6B STANDARD SYSTEM WITH SINGLE NEGATIVE CONTROL AT UNLOCKING**



**F**

**AUXILIARY OUTPUTS**

**AUX 1 AUXILIARY OUTPUT** WHITE/BLACK wire, negative active (-)  
 With alarm armed or disarmed, press button P3 of the remote control twice (within 2 sec.). The output remains enabled for as long as button P3 is kept pressed.



**ALWAYS USE AN ADDITIONAL RELAY TO CONNECT AUXILIARY OUTPUTS**

**Key to symbols**

	Power locking system engagement		All doors are locked		Ignition key in ON position
	Power locking system disengagement		Driver's side door open		Ignition key in OFF position
	Window closing		Vehicle perimeter protection		Enter password
	Siren resting		Hood perimeter protection		LED off
	Siren alarmed		Trunk perimeter protection		LED blinking
	Audible chirp		Direction indication blinking		Engine cut
	Audible chirp disabled		Dome-light switch-on		Interval or waiting time

**G**

## ALARM UNIT OPERATION

# H

### ARMING

Press button **P2** on the remote control to arm the alarm system and lock the doors.



### ARMING WITH MODULE DISABLING

To arm the alarm without enabling the relevant electronic modules (power windows, volumetric sensors, etc.) press button **P2** of the remote control and keep it pressed for 2 seconds.



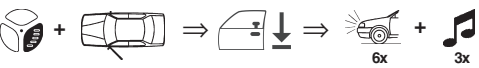
### ARMING WITH SILENT ALARM

To engage the alarm and disengage the siren, first press button **P2** of the remote control and then press button **P3** within 15 seconds.



### OPEN-DOOR INDICATION AT ARMING

If the alarm is engaged with a door not correctly closed, after normal arming indications, the direction indicators flash quickly 6 times and 3 audible chirps are given.



For vehicles with DOME LIGHT DELAYED AT LOCKING, activate the "dome light" delayed at locking function (Box L, Page 2 / Step 1 = ON)

### ALARM CHECK

During the 40 sec. after arming, the LED stays ON with steady light: the LED goes OFF briefly to signal each alarm detected.

- ALARM CAUSES:
- current absorption
  - electronic sensors
  - ignition attempt
  - perimeter intrusion

### PROTECTION

After 40 seconds from arming, the LED starts to flash. At each alarm, the unit generates a bright and audible alarm cycle lasting 30 seconds.



### ALARM INDICATION DISABLING

During an alarm cycle, by pressing the **P1** button of the remote control, the alarm signals are switched-off (siren and direction indicator flashing), but the protection system remains engaged (vehicle locked with engine cut engaged), ready to generate a new alarm cycle after an interval of 5 seconds. To disengage the alarm, press **P1** again.



### DISARMING

Press button **P1** on the remote control.



### CAR LOCATOR FUNCTION

Press button **P2** on the remote control. After the neutral initial time, direction indicators and dome light switch ON for 30 seconds.



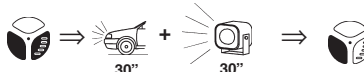
### PANIC FUNCTION

By pressing buttons **P1** and **P2** of the remote control together, an alarm cycle is generated lasting 30 seconds.

Page 2 / Step 4 = ON ⇒ function always available

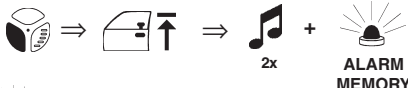
Page 2 / Step 4 = OFF ⇒ function available only with alarm unit armed (default programming)

Press button **P1** to stop signals before 30\"/>



### ALARM MEMORY

When the unit is disarmed, the alarm is indicated by 2 audible chirps and by a coded sequence of LED flashes.



- 1x ⇒ Absorption sensor
- 2x ⇒ Electronic modules
- 3x ⇒ Ignition attempt
- 4x ⇒ (ex. with siren SIR 5 code 3560.0106)
- 5x ⇒
- 6x ⇒ Radio-frequency sensors

## VALET MODE

# I

Operating mode excluding all alarm functions

### ENTERING

- Turn ON the ignition key.
- Within 5 sec. press buttons **P1** and **P2** and keep them pressed.
- ⇒ Entering the VALET MODE is signaled by direction indicator flashing and 1 chirp.
- Release buttons and switch OFF the ignition key.



### FUNCTIONS ON

- Unlocking/locking by means of remote control
- Car locator
- AUX 1 Auxiliary output
- Audible chirps
- "Manual" comfort
- Dome light

### DISABLED FUNCTIONS

- Alarm
- Panic
- Auto-rearm
- Automatic comfort
- Module control
- Dual Zone Signal
- Passive auto-arming mode
- Engine cut auto-arming
- Anti-carjack
- Engine cut
- Ignition door lock

### EXIT

- Turn ON the ignition key.
- Within 5 sec., press buttons **P1** and **P2** and keep them pressed.
- ⇒ Exit of VALET MODE is signaled by direction indicator flashing and 1 chirp.
- Release buttons and switch OFF the ignition key.



If you do not have a remote control, the Valet mode can be entered for 3 minutes, by following these steps:

- Open a vehicle door
- Switch ON and OFF the ignition key 5 times within 10 seconds.

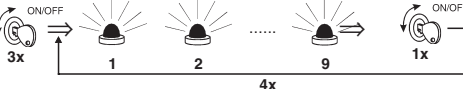
## EMERGENCY SYSTEM DISARMING

# J

To disarm the alarm unit without remote control, enter the password. The password is made up of 4 figures, which can be customized by the user (default programming = 1111) and must be entered one after the other.

### EMERGENCY SYSTEM DISARMING PROCEDURE

- Turn the ON and OFF the ignition key 3 times (within 5 sec.).
- ⇒ The LED flashes.
- After counting a number of flashes equal to the first figure, turn ON the ignition key.
- Turn OFF the ignition key.
- ⇒ The LED starts flashing again.
- After counting a number of flashes equal to the second figure, turn ON the ignition key.
- Turn OFF the ignition key.
- Repeat the procedure for all 4 password figures.
- ⇒ The unit disengages.



- In the event of an error, the LED turns on steady: repeat the procedure from the beginning.

## PROGRAMMING A NEW REMOTE CONTROL

# K

- Enter VALET mode.
- Enter emergency system disarm password
- ⇒ The alarm unit LED flashes three times and three audible chirps are heard.



- Press button **P1** of each remote control to be stored in the alarm unit (max. 4).
- ⇒ Each stored remote control is confirmed by 3 audible chirps and 3 LED flashes.

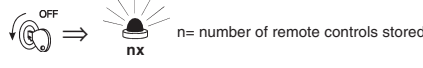


- After storing the last remote control, switch ON and OFF the ignition key to exit from the procedure and return to VALET mode.

STORING NEW REMOTE CONTROLS WILL CANCEL ALL PREVIOUSLY STORED REMOTE CONTROLS.

### CHECKING STORED REMOTE CONTROLS

Every time the ignition key is turned OFF, the LED emits a number of flashes equal to the number of remote controls stored.



## PROGRAMMABLE FUNCTIONS

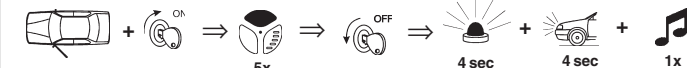
# L

Page	Step	Programmable functions		
1	1	Current absorption alarm	OFF	ON
	2	Audible chirps	OFF	ON
	3	Passive autoarming mode	OFF	ON
	4	Engine cut autoarming	OFF	ON
	5	Autorearm	OFF	ON
	6	Door locking in autorearming	OFF	ON
2	1	Dome light delayed at locking	OFF	ON
	2	Anticarjack	OFF	ON
	3	Ignition door lock	OFF	ON
	4	Panic functioning with alarm unit disarmed	OFF	ON
	5	Engine cut with normally open relay	OFF	ON
	6	Coded siren	OFF	ON
3	1	Power locking system timing (2 sec.)	OFF	ON
	2	Power locking system timing (3 sec.)	OFF	ON
	3	Automatic comfort (for standard systems)	OFF	ON
	4	Manual comfort (by remote control)	OFF	ON
	5	Dome light	OFF	ON
	6	Dual Zone signals	OFF	ON
4	1	Password	"1 - 1 - 1 - 1"	

Default programming is indicated in bold type.

## 1. ENGAGING PROGRAMMING MODE

- Open a vehicle door
- Turn ON the ignition key
- Press button **P3** of the remote control 5 times within 10 seconds. Every time the button is pressed, this is confirmed by a short flash of the LED.
- Turn OFF the ignition key
- ⇒ The unit will confirm engagement of programming mode by means of a long LED flash, a flash of the direction indicators and an audible chirp.



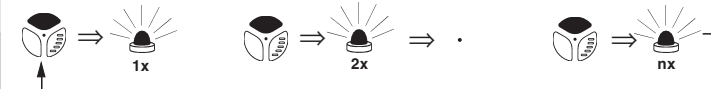
## 2. PAGE SELECTION

- ⇒ The LED emits a coded sequence of flashes, corresponding to the programming pages.
- Press button **P2** of the remote control after counting a number of flashes equal to the number of the page you wish to access.
- ⇒ The alarm unit confirms the page with a number of fast LED flashes equal to the page number.



## 3. SELECTION OF PROGRAMMABLE FUNCTION AND PROGRAMMING

- To progress along the programming steps inside the selected page, press button **P3**.
- ⇒ Every time **P3** is pressed, you move ahead one step, indicated by a number of LED flashes equal to the number of the step itself.



- Wait until you have counted all the flashes corresponding to the step to be changed and then engage and disengage the function.

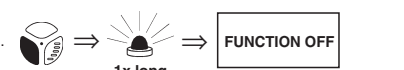
### ENGAGING THE FUNCTION

- Press the **P2** button of the remote control.
- ⇒ 1 LED flash + 1 audible chirp



### DISENGAGING THE FUNCTION

- Press the **P1** button of the remote control.
- ⇒ 1 LED flash



- To **CHANGE THE STEPS INSIDE THE SAME PAGE**, repeat the steps from point 3.

- To **RETURN TO PAGE SELECTION** (point 2), press **P1** for at least 5 seconds.

⇒ The alarm unit confirms return to page selection with a long LED flash, a flash of the direction indicators and an audible chirp.



## 6. RESTORING DEFAULT PROGRAMMING

- Inside any programming page, press the 3 remote-control buttons at the same time.
- ⇒ 3 flashes of the LED and 3 audible chirps.
- After 5 seconds, the alarm unit automatically exits from programming mode.



## 7. EXITING FROM PROGRAMMING MODE

- To exit from the programming procedure, turn ON the ignition key or close the open door or wait for the end of the programming timeout.
- ⇒ The alarm unit confirms programming exit with 10 fast LED flashes and 1 audible chirp.



### CURRENT ABSORPTION ALARM (Page 1 / Step 1)

The control unit detects current absorption (e.g. dome light turns on) as an alarm cause.

### AUDIBLE CHIRPS (Page 1 / Step 2)



Audible chirps can be temporary disabled.



### ALARM PASSIVE AUTO-ARMING (Page 1 / Step 3)

The alarm engages automatically 30 sec. after the vehicle has been left (last door to be closed). The external module control does not activate.

As soon as a door is unlocked, a pre-alarm signal is triggered for 10 sec., followed by an alarm cycle.

To disable passive alarm auto-arming, press **P1**.

### ENGINE CUT PASSIVE AUTO-ARMING (Page 1/Step 4)

The engine cut engages automatically 30 seconds after the engine is shut off.

To disengage engine cut auto-arming, switch ON the ignition key and press button **P1**, or arm and disarm the alarm.

### ACCIDENTAL AUTO-REARM WITHOUT DOOR LOCKING (Page 1/Step 5)

In case of accidental alarm unit disarming, this will automatically arm after 90 seconds, without locking the doors and without starting the module control.

### ACCIDENTAL AUTO-REARM WITH DOOR LOCKING (Page 1/Step 6)

In case of accidental alarm unit disarming, this will automatically arm after 90 seconds, locking the doors. The external modules are only engaged if they were switched on during previous engagement.

### DOME LIGHT DELAYED AT LOCKING (Page 2 / Step 1)

Activate this function only in vehicles equipped with dome light switching off after the doors are locked.

## ANTI-CARJACK (Page 2 / Step 2)

In case of theft, alarm signals and engine cut activate.

### ARMING

- Turn ON the ignition key.
- Press button **P2** on the remote control.
- ⇒ The red LED turns ON steady.



### DISARMING

- Turn ON the ignition key
- Press button **P1** on the remote control.
- ⇒ The red LED turns OFF.



### ACTIVE MODE - CARJACK WHILE VEHICLE DRIVING

- ⇒ The red LED is ON steady.
- Open and close a door (the driver is forced to leave the car).
- ⇒ The red LED turns OFF and after 20 sec. from door closing, the control unit unlocks the power locking system
- ⇒ 2 min. after door locking, the unit performs an alarm cycle without activating engine cut.
- ⇒ As soon as the ignition key is turned OFF, engine cut is engages.
- Engine cut is disabled by performing emergency system disarming by entering the password.

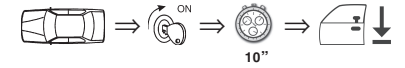
### PASSIVE MODE - CARJACK ON FETCHING VEHICLE

- ⇒ The LED is ON steady.
- Turn the OFF the ignition key before opening a door
- ⇒ The LED turns OFF.
- Leave the vehicle. The alarm works normally
- On returning to the vehicle, disengage the function following the emergency system disarming procedure
- If the password is not entered, the LED remains ON steady
- ⇒ After 20 sec. from ignition, the control unit unlocks the power locking system
- ⇒ 2 min. after ignition, the unit performs an alarm cycle without activating engine cut.
- ⇒ When the ignition key is next turned OFF, the engine cut engages.
- The only way to disengage engine cut is to enter the password following the emergency system disarming procedure.

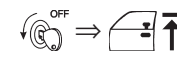
WHEN ANTI-CARJACK FUNCTION IS WORKING, THE REMOTE CONTROL IS DISABLED.

### IGNITION DOOR LOCK (Page 2 / Step 3)

When the doors are closed, 10 seconds after the ignition key has been turned ON, the doors are locked.



Turn OFF the ignition key to unlock the doors.



### PANIC FUNCTION WITH ALARM UNIT DISARMED (Page 2 / Step 4)

ON: Panic function is available with alarm unit armed and with alarm unit disarmed.

### ENGINE CUT BY MEANS OF NORMALLY OPEN RELAY (Page 2 / Step 5)

Engine cut can be achieved by using a normally open relay (SPAL code 3304.0071).

Note: Do not use together with IGNITION DOOR LOCK function.

### CODED SIREN (Page 2 / Step 6)

To activate with a coded SPAL siren.

### POWER LOCKING SYSTEM TIME PROGRAMMING

Default programming:

Unlocking = **0,5 sec.**

Locking = **0,5 sec.**

Vehicles with pneumatic locking system (user programming "Page 3/Step 2 = ON")

Unlocking = **3 sec.**

Locking = **3 sec.**

Vehicles with safety lock (eg. Peugeot, user programming "Page 3 / Step 1 = ON")

Unlocking = **2 sec.**

Locking = **2 sec.**

Vehicles with "comfort function" (user programming "Page 3/Step 3 = ON")

Unlocking = **0,5 sec.**

Locking = **30 sec.**

### "AUTOMATIC" COMFORT (Page 3/Step 3)

Automatic window closing at arming for vehicles featuring "COMFORT" function.

### MANUAL COMFORT (Page 3/Step 4)

Window closing to the desired height by remote control for vehicles featuring "COMFORT" function.

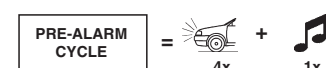


### DOME LIGHT (Page 3 / Step 5)

By activating this function, the GREY/YELLOW WIRE is a negative output for dome light control. See Box G for connections.

### DUAL ZONE SIGNAL (Page 3 / Step 6)

To activate with "Dual Zone" electronic modules only. Each intrusion attempt is indicated by 4 quick flashes of the direction indicators and one audible chirp. Pre-alarm signal can be repeated up to 15 times max.



### CUSTOMISING THE PASSWORD (Page 4/Step 1)

- Select page 4.
- Select step 1.
- Switch the ignition key ON and OFF once.
- ⇒ The LED starts flashing.
- After counting a number of flashes equal to the first figure of the new password, turn ON the ignition key.
- ⇒ FIRST FIGURE OF THE NEW PASSWORD ENTERED
- Turn OFF the ignition key.
- ⇒ The LED starts flashing again.
- After counting a number of flashes equal to the second figure of the new password, turn ON the ignition key.
- ⇒ SECOND FIGURE OF THE NEW PASSWORD ENTERED
- Repeat procedure for all the 4 figures of the password.
- . . . . .
- At the end of the procedure, the unit exits from programming mode.