FUNCTIONS PROGRAMMING TABLES
4600 CAN/PLIP

cobra

7.1 - Programming the functionalities/remote control* and Driver Card* self learning.

IMPORTANT: only for PLIP applications and just after the power supply connection or when the battery has been disconnected and reconnected. Before entering in the functions programming procedure, arm the system, wait until the emergency panel LED starts flashing, then disarm the system. From now on it will be possible to program the functions.

How to enter the programming functions.

a. Open the driver side door.

b. Open the bonnet.

c. Connect the main unit blue wire to GND (only when a wireless siren is fitted).

d. Turn the ignition key ON.

e. Enter the four PIN code digits.

f. A flashing of the direction lights will confirm you've entered in the **page 1** of programming procedure.

Note: factory set-up for each functionality is shown with a grey background.

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* optional

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4600	**"*Buzzer*" volume adjustment.**

The buzzer volume is set by the factory on level 4, if you need to increase or decrease it, follow the procedure described below.
Push the emergency panel pushbutton until you've reached the required volume. You can set seven different levels, at the next step the volume will be excluded. Pressing again you will start from the beginning.
The buzzer volume is active only for diagnostic function.
If you want to activate the buzzer at the system arming/disarming, it is necessary to activate the line 7 of 'PAGE 6' of these tables.

Important: its activation is forbidden for CE countries.

TO SWITCH TO PAGE 2 TURN THE IGNITION KEY OFF AND THEN ON.

Self learning procedure for new Cobra remote controls* and/or Driver Cards*.

Note: to properly perform the procedure leave the antenna connected to the main unit.

a. Enter the four PIN code digits again to enter in the programming area for the system control devices, five flashes of the direction lights will confirm you've entered in the procedure. If no further action is done in the next 30 s the system will exit the procedure.
b. Press the pushbutton A of the remote control or of the Driver Card to store them in the system, after 5 s the emergency panel LED will make a quick flash and the direction lights will flash six times to confirm that the new remote control or the Driver Card has been added to the system. All the control devices already stored in the system before entering this procedure must be stored again.
c. If you want to store other remote controls or Driver Cards repeat the procedure at point "**b**". The system can store maximum 4 control devices.

Detection of the devices connected to the Cobra bus.

a. Wait 3 s to allow the main unit to automatically detect the devices connected to the Cobra bus.
b. Turn the ignition key ON and OFF 5 times to reach the programming 'PAGE 8', seven flashes of the direction lights will confirm you've entered in the programming 'PAGE 8'.

WARNING: double check if the direction lights are flashing 7 times before turning the ignition key OFF.
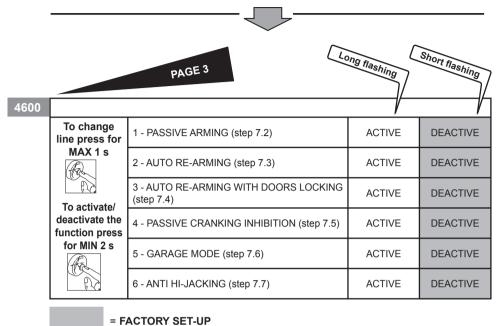
PIN CODE Customization.

a. Enter the new four PIN code digits.
b. Turn the ignition key OFF, then turn it ON again.
c. Enter again the new four PIN code digits.
d. Five flashes of the direction lights will confirm you the new PIN code has been stored.

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* optional

FUNCTIONS PROGRAMMING TABLES 4600 CAN/PLIP

4600	**PAGE 3**		Long flashing	Short flashing
To change line press for MAX 1 s	1 - PASSIVE ARMING (step 7.2)		ACTIVE	DEACTIVE
	2 - AUTO RE-ARMING (step 7.3)		ACTIVE	DEACTIVE
	3 - AUTO RE-ARMING WITH DOORS LOCKING (step 7.4)		ACTIVE	DEACTIVE
To activate/ deactivate the function press for MIN 2 s	4 - PASSIVE CRANKING INHIBITION (step 7.5)		ACTIVE	DEACTIVE
	5 - GARAGE MODE (step 7.6)		ACTIVE	DEACTIVE
	6 - ANTI HI-JACKING (step 7.7)		ACTIVE	DEACTIVE

= FACTORY SET-UP

7.2 - Passive arming.

The system will automatically arm after 30 s the ignition key has been switched off and the driver side door has been opened and closed, so only 30 s after the driver has left the vehicle.

7.3 - Auto re-arming.

The system will automatically re-arm after 115 s, it has been disarmed and no one door has been opened (nobody gets on the vehicle).

7.4 - Auto re-arming with doors locking.

As for auto re-arming, but doors will lock (if the CDL connections have been made).

7.5 - Passive engine starting inhibition.

The starting inhibition becomes active after 115 s the engine has been switched OFF. The cranking inhibition is immediately deactivated if the Driver Card is detected or when a correct emergency PIN Code has been digit on the emergency panel. This functionality is totally independent from the other ones.

With this function activated and if the system is provided with the Driver Card (optional), the cranck inhibition will be deactivated only after the system has recognized the Driver Card.

7.6 - Garage mode.

This function allows to temporarily disable all automatic protection functionalities of the system. It can be used, as an example, when you need to leave the vehicle at a workshop for maintenance to avoid the automatic activation of any functionality. When the garage function is active the driver is allowed to turn the ignition key on for 10 times (engine running). After 10 times the system restore all automatic protection functionalities.

Activation

    - Open driver side door.

    - Turn the ignition key ON.

    - Enter the complete emergency PIN Code (4 digits) on the emergency panel pushbutton.

    - A flash of the direction lights confirms the activation.

Deactivation

    - Lock then unlock the vehicle with the original remote control.

    - A flash of the direction lights and an audible signal confirm the deactivation.

7.7 - Anti hi-jacking.

This function helps to prevent the vehicle hi-jack while driving, taking care also to the safety of the driver. If the driver isn't recognized, the system will consider him as an unauthorized person to drive the vehicle; it will generate an alert sequence and it will not allow the engine starting after it has been switched off.

During the normal usage of the vehicle the driver is recognized by the system in two ways:

- **manual (without Driver Card*)**: by entering the first two Pin Code digits on the emergency panel.

  The driver must be recognized by the system every time the ignition key is switched on or when, with the ignition key on, the driver opens and closes the driver side door to get off. If the recognition doesn't happen within 60 s the LED of the system starts to flash quickly, reporting the failed recognition for further 30 s. When this time is expired, the system generates an alert sequence also if the engine is running. The engine cranking inhibition becomes active with the ignition key off, making impossible the engine running. To exit the anti hi-jack function, enter the four digits of the Pin Code.

- **automatic (with Driver Card*)**: the driver must be recognized by the system when it detects the Driver Card.

  If the recognition doesn't happen within 60 s the LED of the system starts to flash quickly, reporting the failed recognition for further 30 s. When this time is expired, the system generates an alert sequence also if the engine is running. The engine cranking inhibition becomes active with the ignition key off, making impossible the engine running. To exit the anti hi-jack function, the system must recognize the Driver Card. If the Driver Card is switched off, press the push-button of the Driver Card to be recognized.

Warning: to temporarily deactivate the anti hi-jack function (Driver Card broken or with flat battery), type the four digits of the Pin Code. The function will become active again by opening and closing the driver's door when the ignition key is on or by turning the ignition key ON and OFF.

Note: the function is as standard disabled in compliance with the European regulation. Its activation voids the CE homologation. It can be used only in the extra-European countries, if the functionality is not in conflict with the local rules.

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* optional

TO SWITCH TO PAGE 4 TURN THE IGNITION KEY OFF AND THEN ON.

FUNCTIONS PROGRAMMING TABLES 4600 CAN/PLIP

4600			Long flashing	Short flashing
To change line press for MAX 1 s	1 - DIRECTION INDICATORS FLASHING BY COBRA REMOTE CONTROL (step 7.8)		ACTIVE	DEACTIVE
	2 - NOT USED			
	3 - CLACSON OR LOUDSPEAKER OUTPUT SELECTION(step 7.9)		CLACSON	LOUDSPEAKER
	4 - CONTINUOUS OR INTERMITTENT OUTPUT SELECTION (step 7.9.1)		INTERMITTENT	CONTINUOUS
To activate/ deactivate the function press for MIN 2 s	5 - ACTIVATION OF AUTOMATIC COMFORT CLOSING (step. 7.10)		ACTIVE	DEACTIVE
	6 - ACTIVATION OF MANUAL COMFORT CLOSING (step 7.10)		ACTIVE	DEACTIVE
	7 - ULTRASONIC SENSORS SENSITIVITY REDUCTION (step. 7.11)		ACTIVE	DEACTIVE
	8 - ULTRASONIC SENSORS SENSITIVITY REDUCTION FROM EXTERNAL INPUT (step 7.12)		ACTIVE	DEACTIVE

7.8 Direction indicators flashing by Cobra remote control (Cobra remote control optional)

Activating this function the direction indicators flash at the arming/disarming of the system, using the remote control.

7.9 Clacson or loudspeaker output selection

Selecting "Loudspeaker" the line 4 is automatically selected as "Continue".

Selecting "Clacson" the line 4 must be selected as "Intermittent".

7.9.1 Continuous or intermittent output selection

Select "Intermittent" when you have to install a clacson.

Select "Continue" when you have to install a loudspeaker.

When you have to install a clacson you must never select "Continue", the continuous input for 28 s could damaged it.

7.10 Windows manual or automatic comfort closing by Cobra remote control (Cobra remote control optional)

This is a native function of the vehicle, so it is necessary to check if the vehicle provides it. You can close the vehicle and its windows keeping pressed the push-button "A" (manual way). Alternatively it can be installed a dedicated module which allows the windows closing simply pressing once the push-button "A" (automatic way).

Warning: we recommend to perform the windows closing remaining as close as possible to the vehicle checking visually until windows are closed.
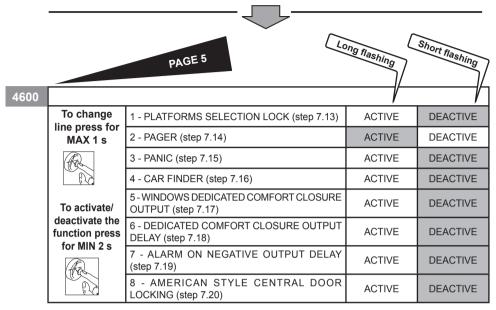
7.11 Ultrasonic sensors sensitivity reduction

Activating this function, the ultrasonic sensor sensitivity is reduced to about 50%. It is suggested for little passenger compartment vehicles.

7.12 Ultrasonic sensors sensitivity reduction from input

Activating this function the ultrasonic sensor sensitivity is reduced to about 70%. To use this function you need to connect the Pink-White wire to the vehicle device (ex. passenger compartment fan heater). The activation of this function excludes the possibility to activate the function specifically mentioned on step 7.22. You can not activate it if the Pink-White wire is used by the PLIP application.

PAGE 5

4600			Long flashing	Short flashing
To change line press for MAX 1 s	1 - PLATFORMS SELECTION LOCK (step 7.13)		ACTIVE	DEACTIVE
	2 - PAGER (step 7.14)		ACTIVE	DEACTIVE
	3 - PANIC (step 7.15)		ACTIVE	DEACTIVE
	4 - CAR FINDER (step 7.16)		ACTIVE	DEACTIVE
To activate/ deactivate the function press for MIN 2 s	5 - WINDOWS DEDICATED COMFORT CLOSURE OUTPUT (step 7.17)		ACTIVE	DEACTIVE
	6 - DEDICATED COMFORT CLOSURE OUTPUT DELAY (step 7.18)		ACTIVE	DEACTIVE
	7 - ALARM ON NEGATIVE OUTPUT DELAY (step 7.19)		ACTIVE	DEACTIVE
	8 - AMERICAN STYLE CENTRAL DOOR LOCKING (step 7.20)		ACTIVE	DEACTIVE

7.13 Platforms selection lock
Activating this function the manual selection of the CAN or PLIP index (step 10 of installation manual) is locked.

7.14 Pager negative output
The Pager output is set "active" from the Factory, and is activated at every alarm cycle. To use this function connect the Orange-White wire.

7.15 Panic alarm by Cobra remote control (Cobra remote control optional)
Activating this function you can generate a panic alarm for 10 s, pressing the push-button "A" of the remote control as soon as the 28 s inhibition time has elapsed, after the system has been armed. The activation of this function excludes the possibility to activate the function mentioned on step 7.16.

7.16 Car finder by Cobra remote control (Cobra remote control optional)
Activating this function you can generate the direction lights flashing and the buzzer audible signal for 10 s, pressing the push-button "A" of the remote control as soon as the 28 s inhibition time has elapsed, after the system has been armed. The activation of this function excludes the possibility to activate the function mentioned on step 7.15.

7.17 Windows dedicated comfort closure output
Activating this function you can generate a negative 24s output which allows the windows closure when the system arms. Connect the Violet-White wire to use this functionality and use the same wire to control an additional windows closure module. The activation of this function excludes the possibility to activate the function mentioned on step 7.20.

7.18 Windows separated comfort closure output delay
Activating this function the functionality described on step 7.17 is delayed 2s.
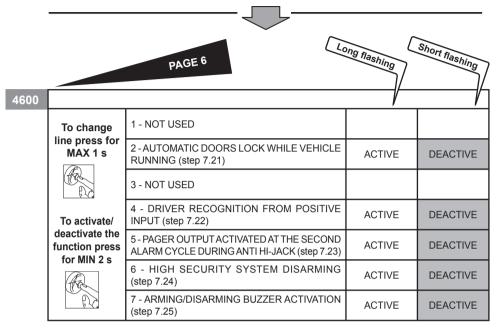
7.19 Alarm on negative output delay
Activating this function the negative output is delayed 2 s after the system has been armed

7.20 American style central door locking from Cobra remote control (optional)
Activating this function and pressing the remote control "B" push-button, the system disarms and the driver door unlocks, a further pressure of "B" push-button unlocks all doors. Connect the Violet-White wire to use this functionality. Its activation excludes the possibility to activate the functionalities described on step 7.17 and 7.18.

PAGE 6		Long flashing	Short flashing
4600			
To change line press for MAX 1 s	1 - NOT USED		
	2 - AUTOMATIC DOORS LOCK WHILE VEHICLE RUNNING (step 7.21)	ACTIVE	DEACTIVE
	3 - NOT USED		
To activate/ deactivate the function press for MIN 2 s	4 - DRIVER RECOGNITION FROM POSITIVE INPUT (step 7.22)	ACTIVE	DEACTIVE
	5 - PAGER OUTPUT ACTIVATED AT THE SECOND ALARM CYCLE DURING ANTI HI-JACK (step 7.23)	ACTIVE	DEACTIVE
	6 - HIGH SECURITY SYSTEM DISARMING (step 7.24)	ACTIVE	DEACTIVE
	7 - ARMING/DISARMING BUZZER ACTIVATION (step 7.25)	ACTIVE	DEACTIVE

7.21 Automatic doors lock while vehicle running

If the vehicle is not already provided with this functionality, overtaking the speed of 10 km/h the system locks the doors. If you drive at lower speed (between 3 and 10 Km/h) the system locks the doors after 10s. By turning the ignition key off the vehicle doors automatically unlock. To use this function you have to connect the cdl control wires to the cdl system of the vehicle and the Pink-Black wire to the odometer.

7.22 Driver recognition from positive input

Activating this function, the driver is recognized from the system by the pressure of a push-button hidden in the vehicle. To use this function you have to connect the Pink-White wire. Its activation excludes the possibility to activate the functionality mentioned on step 7.12. You can not activate it if the Pink-White wire is used by the PLIP application.

7.23 Pager output activated at the second alarm cycle during anti hi-jack

Activating this function the pager output activates at the second alarm cycle.

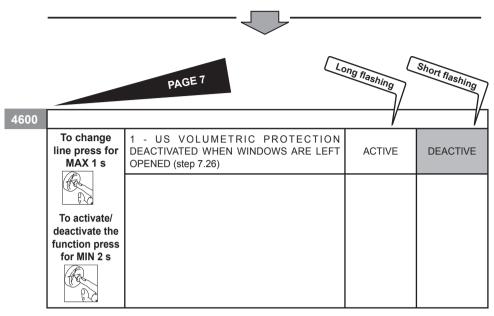### 7.24 High security system disarming

Activating this function and pressing the central door locking unlock push-button of the original remote control, the system delays for 15 s the detection of the perimetric inputs, boot and ultrasonic sensors to allow the Driver Card recognition. If recognized, the system disarms. If the Driver Card is not recognized within 15 s, the system generates the alarm and remains armed.

7.25 Arming/disarming buzzer activation

Activating this function, the buzzer sounds when arming/disarming the system. The buzzer volume is set from Factory at level 4. To modify the buzzer volume, follow the procedure on page 1 of the function programming table.

TO SWITCH TO PAGE 7 TURN THE IGNITION KEY OFF AND THEN ON.

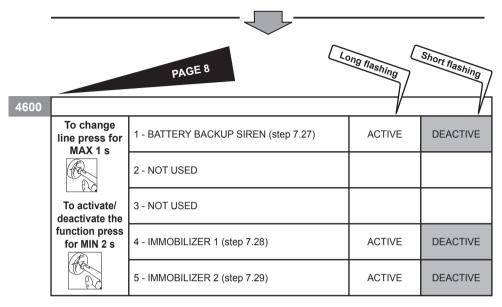| 4600			Long flashing	Short flashing
To change line press for MAX 1 s **To activate/ deactivate the function press for MIN 2 s**	1 - US VOLUMETRIC PROTECTION DEACTIVATED WHEN WINDOWS ARE LEFT OPENED (step 7.26)		ACTIVE	DEACTIVE

PAGE 7

7.26 US volumetric protection deactivated when windows are left opened

Activating this function, the ultrasonic sensors are automatically deactivated, if the windows are left opened.

PAGE 8

4600			Long flashing	Short flashing
To change line press for MAX 1 s	1 - BATTERY BACKUP SIREN (step 7.27)	ACTIVE	DEACTIVE	
	2 - NOT USED			
To activate/ deactivate the function press for MIN 2 s	3 - NOT USED			
	4 - IMMOBILIZER 1 (step 7.28)	ACTIVE	DEACTIVE	
	5 - IMMOBILIZER 2 (step 7.29)	ACTIVE	DEACTIVE	

IMPORTANT: **if one or more modules are connected to the Cobra Bus, if one of them is disconnected, the system will report the missed module when arming with 8 to 12 flashings of the indicator lights and correspondent audible signals.**

7.27 BATTERY BACKUP SIREN
Activating this function, you can add a battery backup siren connected to the Cobra Bus.
7.28 IMMOBILIZER 1
Activating this function, you can add an additional cranck inhibition module connected to the Cobra Bus.
7.29 IMMOBILIZER 2
Activating this function, you can add an additional cranck inhibition module connected to the Cobra Bus.

FUNCTIONS PROGRAMMING TABLES 4600 CAN/PLIP

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