Index

- 1.2 Installation sequence
- 1.3 Technical specification
 1.4 Pictures and functions

- 2.3 Recording new control

2.4 Battery replacement

- 3.1 Set up mode
- 3.2 Entering in the set up mode
 3.3 Selecting parameter

Thank you for choosing the best protection system developed for automobiles. From now on, you will be using the most advanced technology in defense products that has the objective of suppressing unwanted actions, and for safety* and comfort, caring for your family

The emergence of doubts about the technical terms is very common in this type of product. In this case, we suggest that you contact the dealer or the store where you performed the installation or call the Customer Service (Customer Service) 0800 4 KOSTAL (567

* The word "security" often mentioned in this manual, does not represent any guarantee against theft of property or compensation of the same, not replacing or eliminating the need of an insurance policy

To get the most from this product, we recommend you to read this manual carefully and completely and all its information, ensuring full satisfaction in their use. Before starting the installation, disconnect the

Remember that the information contained in this manual is subject to

www.slockkostal.com.br

SAC 0800 456 7825

- 3.4 Selecting the value3.5 Configuration/ setup table

825) 55 11-2139 6108 São Paulo, Brazil.

- 4.2 Main diagram

Warranty Certificate

Introduction

and your assets.

change without notice.

- 5. System functions
 5.1 Security features
 - 5.2 Ultrasound functions 5.3 Comfort functions
- - 5. Connect the cable battery again.

Descrição	Valor
Power supply	9~16V
Maximum current consumption standby	3 mA Max.
Maximum current consumption operation	4 mA Max.
Duration of the complete triggering cycle	5 minutos
Duration of the siren triggering cycle	50 segundos
Maximum current allowed for turn signal lights	Até 3 lâmpadas de 21W por sáida.
Maximum current for output	200 mA
Operation frequency	433,92 MHz
Control battery	1 bateria CR2032 3V

1.4Pictures and functions

This procedure is showed in picture B.

Functions performed automatically by the control are

Picture and functions table

Pictures	Function
	Turn On alarm and lock doors
ô	Turn Off alarm and unlock doors
	Multiple functions key
	Trunk release
\$	*Short touch
	**Long touch
-	Ultrasound key
((((P))))	Presence function
	Automatic function
	***Courtesy period

Kostal makes available three models of remote controls

2. Controls



The key combination of each control allows you to carry out up to fifteen functions in the control of four keys and eleven functions in the control

TRUNK RELEASE

The symbol designation of the keys represents the primary function that is triggered by a short touch. Pressing the keys for a long period, you have access to the secondary functions of the control. The automatic functions are triggered at the end of the primary function and the user intervention is not required.

2.1 Presence detector

The function of presence detection is automatically enabled by recording the S-50 control. This control sends a periodic signal to the alarm module that activates the anti-theft alarm mode when the control is not close the vehicle.

Activating the function

By pressing the key OFF of the S-50 control, the function will be automatically activated. This key can be used with the ignition connected by the manual activation. The auxiliary key also activates the presence function with the vehicle in movement

Deactivating the function

By pressing the key **ON** of the S-50 control, the This key can be used with the vehicle in

3 Settings 3.1 Set up mode

The available settings make it easier the compatibility module with the car and can provide convenience and more comfort to the customer in the use of the customized system for the

\$-50

Summer Open

Summer Open

GM/FIAT OEM module

connected lamp monitoring

Normally open - earth contact

Α

The set up options must be presented to the user before the installation, inform the need of adding some auxiliary components to make feasible the available resources.

3.2 Entering in the SET UP mode:

The set up change is possible only in the "SET UP". Once within this operation mode, you must select PARAMETER and select one of the table values using the remote control.

FUNCTIONS

Auxiliary output 2

Auxiliary output 3

Window lifter output

Door

Trunk

Auxiliary input 1 Auxiliary input 1 set up

3.5 Set up table

PARAMETER

6

PARAMETER

5 and 6 set up

- 2º Turn on the ignition only.
 3º Press the ultrasound with a long touch.
- 4º Ultrasound emits a warning beep.
 5º Release the ultrasound and close the door

The K100 kit does not allow the recording of the S-30 and S-50 controls 3.3 Selecting PARAMETER.

2º Press the ultrasound auxiliary key (Fig. 1) and hold it pressed until

3° After the buzzer warning in the recording mode, press twice the

After the second touch, the ultrasound beeps indicating the control

recording.

Each remote control learned follows a priority queue. After the fifth

recording, the first control goes out of the memory.

Ignition OFF

Long touch

sound alert "mute

Presence function

OFF without

sound alert "mute

**Activate the presence

(see comfort function)

New controls acquired by the user are not automatically recognized by alarm module, they must be registered for operation. Four controls may be registered at the most. In order to submit a new control is necessary to enter the **LEARNING MODE**, following the

Vehicle location Panic Function

OFF with

Ignition ON

Short touch

Lock the doors

**Deactivate the

Unlock the doors

presence function

Courtesy period

Liltrasound

ATTENTION

Individual unlocking

С

Normally closed - earth contact (reed switch).

Serial Kosta connec

2.4 Battery Replacement

Remove the control back cover through the hole

Remove the old battery and place the new one.

observe the mark on the cover that indicates the correct polarity for assembly.

Reattach the rear cover and mount the control

Use only battery CR2032.

Discard the battery into a proper place.

Keep the ignition on and the doors closed. Each touch on the control LOCK key changes the PARAMETER in the table sequence, hen reaching the desired parameter, wait 1 second, check that the ultrasound LED will blink at a cadence that indicates the value assigned to the selected parameter.

The touches are followed by bass beeps.

Engine Start cut

Engine Start cut

Engine Start cut

VW OFM module

В

Window Open

2.2 Keys and Functions

Keys

S-10

S-30

S-50

S-30

2.3Control Learning

remote control lock key.

1° Keep the door open with the ignition on.

AUXILIAR)

The LED should be off until the parameter is selected.

3.4 Selecting value for the PARAMETER.

Keep the ignition on and the doors closed. Each touch on the control **UNLOCK** key changes the **PARAMETER VALUE**. When selecting the value, check the ultrasound **LED**, it should blink at a cadence indicating the new value selected. The touches are followed by treble beeps. In order to exit the set up mode, turn off the ignition key or wait 30 second

Headlamp timer

Headlamp timer

Headlamp timer

1 second pulse

VALUES

The ultrasound beeps indicating the completion.

Sound control ON/OFF

Sound control ON/OFF

Sound control ON/OFF

1 second pulse

Lock/ Unlocked control

VALUES

Normally open - positive contact

PARAMETER

Vehicle location

Active the panic function

Soon after deactivating

Active the window opening

function.
See comfort function







Installation Instruction

Individual unlocking Courtesy light Individual unlocking Courtesy light

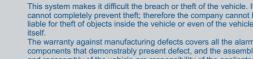
ANATEL ANATEL

Modelo 10022975 1053-10-1602









cannot completely prevent theft; therefore the company cannot b liable for theft of objects inside the vehicle or even of the vehicle The warranty against manufacturing defects covers all the alarm components that demonstrably present defect, and the assembly and reassembly of the vehicle are responsibility of the applicator or

Before disconnecting the battery ground wire, make sure that all vehicle components are working. If the vehicle has coded radio make sure whether the owner has the code in hand.

Some functions may not be applicable to the vehicle, check details

In order to have the right of receiving the warranty, request the product invoice and fill in the certificate.

1.2 Installation sequence

1.1 Attention

1. Define a location for electronic module protected from heat and water

2. Glue the double-sided tape on the alarm module

and ultrasound, before that thoroughly clean the fixation area.

3. Set the siren and route the wires inside the vehicle

4. Connect all the cables according to the installation

connecting the alarm and test the system.

□1.3 Technical specifications

Valor
9~16V
3 mA Max.
4 mA Max.
5 minutos
50 segundos
Até 3 lâmpadas de 21W por sáida.
200 mA
433,92 MHz
1 bateria CR2032 3V

*short touch - keep the key pressed for ½ second at the

This procedure is showed in picture A.

*** Courtesy period is the period of 15 seconds after the D

** Long touch - keep the key pressed for one or more B C

5. System Functions

2

10

Item 5.1 Security functions

keeping the vehicle locked.

is switched on within the courtesy period.

warning light.

Alert mode - activation and deactivation with buzzer and warning light.

Silent mode * MUTE* - activation and deactivation without tone and with

Emergency activation. - You can activate the alarm using the ultrasound auxiliary key. Keep the ignition off and the doors closed, press the ultrasound key with a long touch. The ultrasound sends a beep indicating the activation,

open and close the door, two seconds after closing the alarm will be activated but it will not lock the doors requesting manual locking.

Auto active - After the alarm is turned off, if the doors or the luggage compartment are not opened in 30 seconds the system will be reactivated

Emergency deactivation - The system can be deactivated by the hidden

orgency key in case of loss of control, low battery or activation of the ence function. See detail of the emergency key item 6.

Alarm trigger - The trigger can occur by opening the doors, hood or luggage compartment, ignition switch activation, or detection of the ultrasonic sensor.

Panic function - This function triggers the alarm in a dangerous situation.

Shots report – It allows knowing the cause of a possible alarm triggering through the ultrasound LED. See detail regarding the triggering report.

Presence detector - This function allows blocking engine starts if the

control is not near to the vehicle. See details on the control with presence function

Engine start release - This function blocks the starts of the vehicle in case of triggering since the cutoff relay is installed, see detail item 11.

Keep the sensor + / - 10 cm From the top line of the windshie

After triggering, the LED starts signaling through cadences, a number that identifies the source of the triggering, according to the table:.

Cables interruption or non-operation of the ultrasonic sensor

Code Blink(= = LED ON)

•••••••••

TRIGGER DESCRIPTION

Ignition ON

Trunk opening

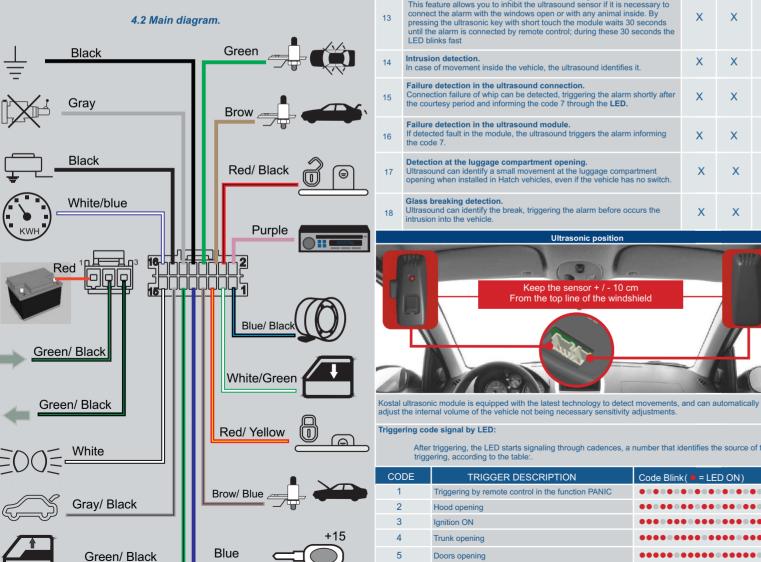
Doors opening

Glasses breaking detection

7

8

4.1 Connections table					
PIN	Color	Function	Connection		
1	Red	Positive supply	Battery supply positive		
2	Black/Green	Side Blinker Left	Blinkers Left		
3	Black/Green	Side Blinker Right	Blinkers Right		
1	Black/Blue	Siren	Modulated signal		
2	Purple	Auxiliary output 3	Car audio Control		
3	White/ Green	Auxiliary output 1	Electric window opening (Summer Open)		
4	Red/ Black	Unlock signal	Unlocking signal by relay or actuator control module		
5	Red/ Yellow	Lock signal	Locking signal by relay or actuator control module		
6	Brow	Trunk switch signal	Negative Trunk Switch (see set up option)		
7	Brow/ Blue	Hood signal	Negative Hood Switch (see set up option)		
8	Green	Doors Signal	Negative Door Switch (see set up option)		
9	Blue	Ignition on/off	Connect the ignition switch turned on/off		
10	Black	Ground	Negative supply battery (Ground)		
11	Green/ Black	Serial output	Saída p/ levantador de vidro e saída K Connect		
12	Gray	Auxiliary output 2	Start engine release (cut off)		
13	Gray/ Black	Trunk release	Negative signal for trunk release by relay		
14	Black	Emergency input (Valet switch)	Emergency switch to inhibit triggering		
15	White	Auxiliary input 1 (Lamp signal)	Lamps monitoring		
16	White/ Blue	Speed Sensor	Vehicle Speed sensor Signal		



	of alggering direct the outen relay to installed, see detail term in.						
12	Ultrasound inhibition through the remote control - This feature enables to inhibit the ultrasonic sensor if necessary to turn on the alarm with the windows open or with any animal inside. With the alarm activated within the first 15 seconds, a long touch on the control auxiliary key will keep the alarm activated but with ultrasound inhibited.		X	X	28	Car finder - This feature allows you to locate the vehicle within the operating reach range of the remote control. After the courtesy period, press the key that corresponds to the function, the alarm emits a short beep, then the turn signal lights are activated for 20 seconds or until the door opening.	X
	5.2 Security functions Ultrasonic					Car audio control -	and X
	5.2 security functions Ultrasonic Ultrasonic inhibition through the ultrasound key. This feature allows you to inhibit the ultrasound sensor if it is necessary to				29	Allows you to turn off the sound when the alarm is activated and connect automatically when deactivating the alarm, see connection details in item 29.	
13	connect the alarm with the windows open or with any animal inside. By pressing the ultrasonic key with short touch the module waits 30 seconds until the alarm is connected by remote control; during these 30 seconds the LED blinks fast	X	X	X	30	Headlamp control - You can turn on the vehicle headlamp when turning off the alarm, see connection detail in item 30.	X
14	Intrusion detection. In case of movement inside the vehicle, the ultrasound identifies it.	X	X	X	31	Lamp timer - You can turn on the vehicle lamps for a period of time when turning the alarm on or off, check how to access this function in	X
15	Failure detection in the ultrasound connection. Connection failure of whip can be detected, triggering the alarm shortly after the courtesy period and informing the code 7 through the LED.	Х	Х	X	32	remote control table and connection details in item 31. Doors locking - You can lock the vehicle doors when turn the alarm on or off, this feature is available for vehicles with electric locks.	X
16	Failure detection in the ultrasound module. If detected fault in the module, the ultrasound triggers the alarm informing the code 7.	Χ	Χ	X		Individual locking - This function allows you to manage the driver's door lock	
17	Detection at the luggage compartment opening. Ultrasound can identify a small movement at the luggage compartment opening when installed in Hatch vehicles, even if the vehicle has no switch.	X	X	Х	33	separately from the other doors. The first touch in the key unlocks only the driver's door. With another touch, in 3 seconds at the most the other doors are unlocked. It is necessary to set up an auxiliary output to enable this function, see installation details in item 33	X
18	Glass breaking detection. Ultrasound can identify the break, triggering the alarm before occurs the intrusion into the vehicle.	X	X	Х	Item	Security functions	
	Ultrasonic position					Emergency deactivation - The system can be deactivated by the emergency key that shall be	hidd

K100 K300 K500 Item 5.3 Comfort functions

20

19 Allows you to record a speed limit. See details in item 19

Connected lamp monitor -

Turn signal lights monitor -

Open doors, hood and trunk monitor -

Allows you to open the luggage compartment through the control. See details Item 20.

ction emits a buzzer warning if the door is opened with the

amp on. It is mandatory that the pin 15 is connected to the vehicle

This function emits a buzzer warning if the vehicle is in movemer or connected with one of the items opened.

If the driver lets the turn signal lights connected for a long period of time with the vehicle in movement, the alarm emits a warning

Electric Windows automatic closures – In case the vehicle equipped with windows it is posssible to close automatically when connecting the alarm, se in the set up table

In case that the vehicle is equipped with electric windows it is possible to open them through a control secondary, see in the set up table the suitable VALUE for each system.

auxiliary with a long or short touch on the control S-30, the system sends four options of alert sounds, this function will be available only with the alarm off and the ignition on.

This function locks the vehicle doors after the ignition is on and the doors are closed. If the system is connected to the speed sensor, the doors will lock after a few meters, otherwise after 3

econds. By turning off the ignition the doors unlock automaticall

Entertainment sounds -By pressing the keys to open the luggage compartment or

this is enabled only with the speed sensor connection.

the suiteble valeu for each system. Detail 24.

X

X

X

X

Χ

X

X

X

X

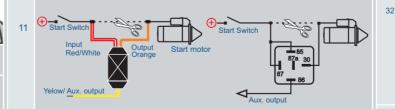
X

X

The system can be deactivated by the emergency key that shall be hidden. For turning off the system open the door of the vehicle, triggering the alarm, turn on the ignition key and press the emergency key for 10 seconds. Use the same procedure in case of the presence function

Engine Start release - In case of triggering, the start engine is blocked until the alarm is turned off. For this function is necessary to install Kostal's relay or an auxiliary relay.

important:
We recommend the start engine automatic cut off, see the local standard requirements according the traffic law.



Item Função de conforto

Speed monitor -

This function enables to record the track maximum speed through the ultrasonic key. Press the ultrasound auxiliary key when achieving the desired speed and it will be memorized. By exceeding 3% of the stored speed, the ultrasound beeps a warning signal that gradually increases its intensity with speed increasing, becoming continuous from 20% on the overspeed. Long touches on the key shut or restart the system with the speed initially memorized. Remarks: Each new short touch you are recording a new speed. To inhibit the function, a simply long touch on the key and the function will be inactive.

The pin 16 (sensor input) must be connected to the vehicle speed sensor / signal (check whether this sensor is available in your vehicle).

K100 K300 K500 Item

X

20

X X X

X

X

Χ

X

X

Χ

Χ

X

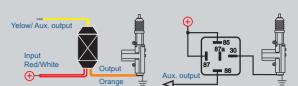
X

X

X

Χ

This function allows the trunk compartment opening (since the vehicle is equipped with it). For its operation it is necessary to install Kostal's relay or an auxiliary relay to supply the opening actuator. The function can be activated with the alarm on or off, but only with the ignition off.



If the vehicle is equipped with automatic electric windows, it can be automatically closed when turning on the alarm. The output of window lifter pin 11 can be set up to suit the original module options and the common modules available in the market.

See in the set up table how to select the appropriate parameter.

VW OEM module Gol GV and Voyage

Connect alarm pin 11 to pin 5 of connector 23 way .

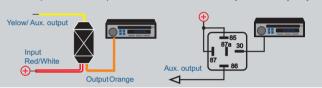
FIAT OEM module



Connect alarm pin 11 to pin 8 of connector B. Brown.

Important: Check the module code VW Gol 5U0959433AC and manufacturing date after 01. 20. 2009 for VW Line, this connection commands the electric locks, electric window opening and closing, eliminating

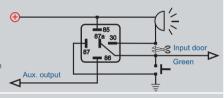
Allows you to turn it off when the alarm is activated and connect it automatically when deactivating the alarm. The system also starts to control the car audio power when turning off the ignition and closing the door, the sound will be turned off after 30 minutes and it is necessary to maintain the vehicle door open or turn on the ignition to keep the radio on. Requires the installation of Kostal's relay or an auxiliary relay



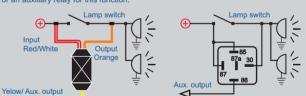
Courtesy light control -

By deactivating the alarm, lighting remains on for 10 seconds until the doors opening. It is necessary to enable this function through the set up table and install an auxiliary relay for

Important:
By moving the vehicle the light turns off before the 10 seconds if the sensor speed is on.

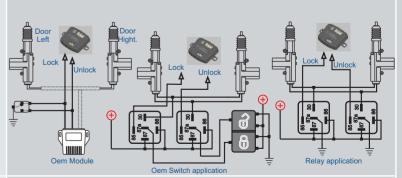


Lamp timer -This function allows the vehicle lamps activation for a period of 30 seconds after activating or deactivating the alarm. After activating the alarm during the courtesy time you can control the lamps by the same activation key. After deactivating the alarm and before opening the doors, you can control the lamps by the same deactivating key. It is necessary to enable this function through the set up table and install Kostal's relay or an auxiliary relay for this function



Doors locking -

You can lock the vehicle doors when turn the alarm on or off, this feature is available for vehicles with electric locks. The system have a lock unlock output negative signal whith 300 mA max.



To enable this function it is necessary to

set up one of the module auxiliary outputs in the function "Individual unlock" VALUE 5 of the parameters table. For installation it is necessary to add 3 auxiliary relays, see the diagram on the

Auxiliary relay A:

It must be connected to the auxiliary output 1, 2 or 3 depending on the settings. selected in the table settings. selected in the ta It must be connected to lock and unlock output red/yelow and red black wires

