

from this signal till VALET button's releasing, after that LED lights off.

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### ***XV. PANIC MODE***

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If the ignition switch is not in "ON" position and you press #2 of RT, the system starts to alarm by siren and flashes by blinkers. This mode is also convenient to find car in large parking.

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### ***XVI. RANDOM CODE Keeloq®***

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Every time you press a button of your RT, it transmits different code from the last transmitted, 50 % of bits in random part of code word are different.

Every received code is not valid more and it will not accept this code if it is received again. In case the button of RT is pressed more, than 16 times, to be synchronized the transmitter with the base unit, a button of RT has to be pressed alternately (when the RT is in range of base unit).

The code change give you a warranty, that recorded and transmitted code from your RT could not change the status of your system.



**c a r a l a r m**



**OWNER'S MANUAL**

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**c a r a l a r m**



**OWNER'S MANUAL**

# OWNER'S MANUAL – MAX

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## I. INTRODUCTION AND FEATURES

Congratulation for your excellent choice this security system. To use your car alarm system properly you have to clear next few positions! Remote transmitter, Status LED (Light Emitting Diode), Service Button (Valet button).

**REMOTE TRANSMITTER (RT)** – every system works with two learned remote transmitters and maximal number of learned to the base unit is seven. RT has three buttons, B1 (near to LED) middle – B2 and B3.

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turn the ignition switch to "OFF" and release VALET button. In this mode any sensor's triggering will sounds by chirps and its number correspond to the triggered sensor:

<b>1 short chirp</b>	warning zone of shock sensor
<b>1 long chirp</b>	warning zone of additional sensor
<b>2 chirps</b>	ignition switch to "ON"
<b>3 chirps</b>	doors, hood or trunk are opened
<b>4 chirps</b>	current sensor
<b>6 chirps</b>	trigger zone of additional sensor
<b>7 chirps</b>	trigger zone of internal shock sensor

To turn the system out of Sensor's adjustment mode just press #2 of RT.

## XIII. ADJUSTMENT OF TRIGGER ZONE SENSIBILITY FOR THE INTERNAL DUAL ZONE SHPCK SENSOR

First put the system in system in Sensor's adjustment mode, press #1, the system will chirp and goes in the Adjustment mode. In this case any shock over the car, strong enough to trigger the warning zone of shock sensor will make the system to chirp and will memorize. To adjust the trigger zone just shock the car as strong, as you want to be trigger the shock sensor. To go out from this mode, press #2 of RT, the system will chirp shortly and flash by blinkers.

**Note:** The system memorize the last shock before you press #2.

## XIV. LONG TIME ADJUSTMENT

First put the system in Sensor's adjustment mode. Then press and hold VALET button, press #1 of RT, the LED will light on, the system will chirp, counting the time

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## ***XI. ERASING OF RT AND LEARNING OF NEW ONE***

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**To erase RT** – In this function you erase all learned RT, the programmable functions are set in default position (\* in the table).

You have to disconnect the big connector from the main unit and wait more, than 5 min.

Shorten the jumper on system's PCB, connect the connector to the base unit, the LED has to light and wait for flash by blinkers and sound from siren. Shorten the jumper and go to the next point!

**Learning of new RT** Up to 7remote transmitters could be learned to the system, but when you purchase the system they are two.

**Note:** It is recommended when you leave the car in service, put the system in service mode and do not give the RT to service staff. After alarm system's installation we also recommend to relearn the transmitters again, or to check the number of learned RT.

### **How to put the system in Learning mode!**

1. Put the system in Disarm mode.
2. Shorten the jumper on the unit's PCB and hold it till the LED lights.
3. During 1min period of time press a button of RT, the LED will flashes by short and longer flash. After this the system will go in normal (Disarm) mode.

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## ***XII. SENSOR'S ADJUSTMENT MODE***

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It is used for sensor's adjustment without strong noise. To put the system in this mode you have to disarm it and press the VALET button and hold, turn the ignition switch to "ON", wait till chirp is heard and blinker's flash is seen,

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**B1** is using for arming and disarming the system, to choose programmable function for setting of long time for door lock, lock and unlock of the doors when ignition switch is On.

**B2** is using for choice of arm modes, programmable function choice, stopping of adjustment for second zone of built-in shock sensor, unblocking of ignition interruption when "immobiliser" function is programmed.

**B3** is using for reset of test time in "arm" mode, for additional channel control in "disarm" mode, in "remote engine ignition" mode.

**Note:** When you press some of RT buttons and LED lights blinking, the battery is weak and you have to replace with new one immediately.

**VALET BUTTON:** It is used for:

1. Turning the system off when you leave the car in service station or unloading grocery if "passive arming" is being used.
2. Choice of programmable function.
3. Put the system in "sensor test" mode.
4. Determine of time for long lock.
5. Disarming when this function is allowed (see Chapter X).

**STATUS LED:** It shows the system status in every moment, reports which sensor is triggered the system for last time, lights constantly to remind it is need to press button #2 for release ignition cut off (when the "Immobiliser" function is ON).

When you turn the ignition switch "On" in first 10 seconds the LED reports the numbers of learned to the system RT (Note: To report correctly, after supplying the system or learning of new RT, base unit has to receive even one code from RT). If the "Immobiliser" function is "On", the LED reports blinking inverted.

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## II. ARMING THE SYSTEM

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You can arm the system in two ways: The first one is by pressing #1 of RT when system is not in service mode and the ignition switch is not in "On". The second one is by programmed functions "Auto arming" and "Passive arming".

The current sensor starts to work 1 min after arming the system if in this time it is not been triggered.

Arming the system by RT: Every time you can arm the system if it is not in "service" mode or the ignition switch is "Off" or on "ACC".

To arm the system just close the doors and press #1 of RT., the short sound will be heard from siren, the blinkers will light for short time and LED will light constantly (for second Arm mode, after "chirp" sound you have to press #2 of RT, the system will sound two times shortly). If the car has central door lock and system is connected to it, pressing #1 the system locks the doors. When system is armed, built-in relays interrupts car ignition. After 20 seconds the LED starts to blink, indicated "Arm" mode of the system.

**BY - PASS ZONES:** When the system is armed and LED lights constantly, if the door, hood or trunk switch is triggered, the short strong signal from siren will be heard and blinkers blink shortly, in this case the system ignores these switches till they go in to normal position, after that they could trigger the system again. In this time, if the shock or current sensors are triggered, the corresponding one is ignored for 2 min, if within in this period it is triggered, the system ignores it for new 2 min.

**Note:** When some of the sensors is ignored, the rest of them work normally. Last door arming! The system could be programmed to arm itself when the last door is closed. If this function is allowed in this case system will chirp

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Channel 1 (starter) and leaves to protect the doors only. If the door is open without disarming the system, it turn the engine off, interrupts the ignition and starts alarm. By #3 always could be turned the engine off (switches the relay, replacing the engine switch in "ON" position), not relay for ignition cut-off. The engine turn off is programming by Function 24.

If the system is disarmed, within 2 min after a door is open the relay, replacing ignition switch is turn off (10 sec. before the system sounds by warning signal).

**Note:** The relay, replacing ignition switch is turn off by #3 only. When you disarm the system and this relay is turned on, it will report the number of learned transmitters, waiting for pressing #3 or some door to be opened (according to Function 24). When the relay is turn on, on ACC wire has to be +12V.

If not, the system warns and the function does not work.

**24. Turn off the replacing relay by #3.** If this function is forbidden when the engine is started from distance and alarm system is disarmed, if some door is opening the replacing relay turns the engine off. If the function is allowed, this is turn off by pressing #3 of RT.

It is recommended the replacing relay to be connected properly in this way: When the hand break lever is not lifted and the car's gear is not in neutral position, the relay could not be turned on by the system's is ground.

**Attention:** The remote engine starting works always, independently on gear's position or hand break lever's position. When you start the engine be sure the gear's lever is in neutral position and hand break level is lifted.

The producer has no any responsibility for the damage, caused by improper use of this function.

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**16. Warning signal is not allowed.** When you allow this function, no sound will be heard if the warning zones of additional and shock sensor is been triggered. The flash with blinkers will be seen and the Pager's output will be switched on for a while (see Function 17).

**17. Pager when warning signals is "ON".** If the function is allowed the pager's output will be switched on during warning signals.

**18. Prohibition for chirp sounds.** If it is allowed, during Arming and Disarming the system no sounds will be heard, the flash from blinkers will be see only.

**19. Siren's sound prohibition.** When the system alarms (is this function is allowed) no sound will be heard, flashes only be seen, the pager output will be switched on.

**20. Prohibition for long flashes.** If this function is forbidden, when you disarm the system and the sound is heard, the blinkers lights on for 20 sec. or till you switch the ignition to "ON".

**21. Chirp warning sounds.** If this function is allowed, the warning sounds from shock or additional sensors will be chirp, not strong.

**22. Channel 2 for 3<sup>th</sup> block system.** If it is allowed, the Cannel 2 is used for ignition interruption with external relay (applied with MAX). If the function is not allowed, when press #3 of RT Channel 2 switch the external relay on.

**23. Remote engine starting.** This function works only when the system is in Arm Mode.

Press #3 and hold, press #2 – the system confirms with chirp, restores the ignition, turn all sensors off (without doors, hood and trunk), at Channel 2 switch ground for ignition relay Pressing #2 you switch Channel 1 for the starter relay. Hold #2 till you turn the engine on. During this the blinkers light permanently. If within 15 min nobody disarms the system it switches automatic off the ignition,

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shortly and blinkers will light once, indicating "arm" mode. At this time if some door is open and close, new period 30 seconds start running to be in "arm" mode. This function could temporary be forbidden if 30 seconds after the last door is closed you press #2 of RT.

**PASSIVE ARMING.** In some cases a man could accidentally disarm the system, when the RT is in the pocket or the children plays with it. To be prevent the owner we are provided this function to be allowed in programming mode. In this case the system automatically is arming and locks the doors 30 seconds after disarming, if the doors don't open during this period.

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### III. ARMING MODELS AND ALARM

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Your system has two arming modes, in the second one the warning zones of shock and optional sensor does not work and by programming their trigger zones could not work also. If the system is set in the second arm mode (#1+#2), the LED flashes 4 times in second, in the first one – 1 flash in 2 sec.

When the warning zone of shock sensor is triggered, the system warns with short strong sound and flashes once by blinkers, if the warning zone of optional sensor is triggered, you hear two strong sounds and see two flashes by the blinkers.

If some of the inputs is been triggered the system starts alarm by siren and flashes 30 sec. in this time you can stop it by pressing #B1 or #B2, or pressing the VALET button.

Note: If in alarm mode you press #1 the system stops alarm and flashes, disarms and if you have central door lock it unlocks the doors.

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### IV. DISARM THE SYSTEM

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**Disarm by RT:** When press #1 the chirp is heard, one  
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flash by blinkers is seen and if the central door lock is connected the doors unlock.

If in previous Arm mode the system is been triggered by any reason, it flashes 4 times by blinkers. After disarming the LED reports from which sensor or input the system is been triggered for the last time.

**Disarm the system by VALET button:** If this function is allowed (programmed) you could disarm the system by put the ignition switch in "ON" and press the valet button (it is in save hidden place, only you know where it is).

**Note:** If you disarm the system and hear first chirp and after strong warning signal, it is means the battery in RT has to be changed.

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## V. SERVICE (VALET) BUTTON AND SERVICE MODE

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The VALET button has several functions:

**1. Disarm the system in Arm mode** (it was described above).

**2. Set the system in Service mode.** When the system is not in Arm mode, you press VALET once, hear chirp and flash once. The LED lights constantly by short interruptions.

**3. In Service mode you press** the Valet button, the system sounds and flashes once.

**4. Put the System in Programming mode.** In Disarm mode you press VALET button and keep pressed until the sound and flash is appeared.

**5. Switch off the function "ANTI-HI-JACK".** In this case you have to put ignition switch to "Off" and till five seconds press VALET button, the sound and flash will appear.

**Note:** In any cases the VALET button has to be mount somewhere in save, hidden place, in other case the thief could disarm the system, finding the Valet button.

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**9. Current sensor.** Allowed or forbidden.

**10. Immobiliser.** This function allows to prevent more effectively the car from thieves. If it is allowed, when you turn ignition switch to "ON" the LED will light permanently and you have to press #2, after that you could start the engine. In this moment the LED will light off and the relay will release the ignition interruption.

**Note:** When you turn the ignition switch to "ON" the system reports the number of learned remote transmitters and if the function "Immobiliser" is allowed, the report is in inverted mode. The report time is 10 sec.

**11. Lock when Ignition Switch is "ON".** If this function is allowed when you turn the Ignition Switch to "ON", the system will lock the doors. If some door is not closed, the system will not close the doors. If you turn Ignition Switch to "ON" and 20 sec. are not passed and you turn the Ignition Switch to "OFF" and "ON" again the system will wait the elapsed time to 20 sec. and after this time it will lock the doors.

**12. Prohibition of Disarming with Valet button** (See Chapter IV).

**13. Allowing trigger zones for Additional and Shock sensor in Second Arm Mode.** When this function is allowed, the trigger zones of additional and Shock Sensor will work.

**14. Long Lock.** If this function is allowed, long time could be adjusted (see Chapter XIX).

**15. Additional channel for windows closes.** If the function is allowed, when you arm the system the additional channel will give ground signal during period, of time could be adjusted (see Chapter XIV). This ground signal could be used for windows close. If the function is forbidden, the channel gives ground for 20 sec. when you disarm the system.

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**10. Immobiliser.** This function allows to prevent more effectively the car from thieves. If it is allowed, when you turn ignition switch to "ON" the LED will light permanently and you have to press #2, after that you could start the engine. In this moment the LED will light off and the relay will release the ignition interruption.

**Note:** When you turn the ignition switch to "ON" the system reports the number of learned remote transmitters and if the function "Immobiliser" is allowed, the report is in inverted mode. The report time is 10 sec.

**11. Lock when Ignition Switch is "ON".** If this function is allowed when you turn the Ignition Switch to "ON", the system will lock the doors. If some door is not closed, the system will not close the doors. If you turn Ignition Switch to "ON" and 20 sec. are not passed and you turn the Ignition Switch to "OFF" and "ON" again the system will wait the elapsed time to 20 sec. and after this time it will lock the doors.

**12. Prohibition of Disarming with Valet button** (See Chapter IV).

**13. Allowing trigger zones for Additional and Shock sensor in Second Arm Mode.** When this function is allowed, the trigger zones of additional and Shock Sensor will work.

**14. Long Lock.** If this function is allowed, long time could be adjusted (see Chapter XIX).

**15. Additional channel for windows closes.** If the function is allowed, when you arm the system the additional channel will give ground signal during period, of time could be adjusted (see Chapter XIV). This ground signal could be used for windows close. If the function is forbidden, the channel gives ground for 20 sec. when you disarm the system.

22. Channel 2 is for third ignition interruption or when #3 is pressed	Yes	No
23. Remote engine starting	Yes	No
24. Switch off the Relay for ignition "ON" – only by pressing #3	Yes	No

**1.2.3: Programmable sounds.** If they are allowed more than one, the systems alarms alternately

**4. How long is locking / unlocking impulse.**

**5. Anti-Hi-jack function.** If the function is allowed, it start working when the car ignition switch is in "ON" position and the driver's door is opening. In this case the short chirp is heard. Two minutes later the system start to sound warning signals. After 15<sup>th</sup> signal the ignition is interrupted and system alarms. During the period of warning you can stop the function by pressing VALET button till the LED lights off. To go out finally is by turning the ignition switch to "OFF" position and pressing the VALET button till the system sounds shortly by chirp.

**6. Last door arming.** If it is allowed, when the system is in Disarm mode and the Ignition switch is in "OFF" position after the last door is closed, you will hear chirp – it means the system will be in Arm mode after 30 seconds. During this time if you press #2 of RT, the chirp will be heard and this function will forbidden till next Disarm.

**7. Prohibition of door lock in Last door Arming mode.** This function determines if the system will lock the doors when the Last door Arming is allowed. You could prevent to lock the keys in the car with previous function – just allow this function.

**8. Passive arming.** When Disarm the system and no door are open till next 40 sec. Arm mode is activated automatic. This function could interrupt by pressing #2 of RT.

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## VI. AUTOMATIC TRANSMITTER VERIFICATION

---

Switch the ignition to "ON", the LED flashes so much times, as number of RT are been learned. This function works 10 seconds after you switch the ignition to "ON".

### VII. STATUS LED

It informs for system status, RT check, and last trigger zone, "Immobiliser" activation.

**System status:**

1. Lights off or flashes with pauses – the system is in Disarm mode.
2. Lights permanently with short interruptions the system is in **Service mode**.
3. Flashes once in 1 sec. – The system is in Arm mode.
4. Flashes 4 times in one second: the system is in Second Arm mode.

**Report of the last triggered zone.** After you disarm the system the LED reports which zone is been triggered for the last time: The report is by flashes in-groups with long pause between them: the number of flashes in-group is the number of corresponding zone:

- 2 Flashes in group** - ignition switch in "ON" position
- 3 Flashes in group** - door switches, hoot or trunk
- 4 Flashes in group** - current sensor (some consumption in the car).
- 5 Flashes in group** - pressed #2 of RT (panic)
- 6 Flashes in group** - triggered optional sensor.
- 7 Flashes in group** - triggered shock sensor.

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## VIII. ADDITIONAL CHANNELS

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1. They are used for "Remote Engine Start" function (see Chapter X – function 23)
2. Third ignition interruption cut off which is turn off by pressing #3.
3. Switch the dome light "ON" when disarm the system.
4. Long time for windows close etc. when you arm the system.

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## IX. PAGER OUTPUT

---

When the system alarms, at this output ground is appear for the period of alarm, in case of warning also, if Function 17 is allow (see Chapter X).

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## X. PROGEAMMABLE FUNCTIONS

---

Your security system has 23 programmable functions, they could be allowed by pressing VALET button and RT.

To put the system in Programming mode you have to press and hold VALET button till chirp sound and flash is appear (the system has to be in Disarm mode). After that you can program first function by pressing RT buttons. To go to next function you have to release VALET button and press it again. Each function could be programmed only when the VALET is pressed and hold, then Status LED shows if the function is allowed (lights shortly and lights off longer), or is not allowed (lights longer and light off shorter). Pressing #1 of RT when VALET is pressed allows function (then two short chirps are heard). To disable the function is at the same way, but you press #2 and the system chirps once. If the VALET button is pressed and released without pressing RT buttons, the corresponding function remains in last status.

The table bellow gives functions numbers their setting and factory presets (\*, the right columns)

8

	#1	#2
1. Sound 1	Yes	No
2. Sound 2	Yes	No
3. Sound 3	Yes	No
4. Lock/unlock time	3.5s.	0.7s.
5. Anti - Car Hi-jack function	Yes	No
6. Last door arming	Yes	No
7. Disable to lock when passive arming	Yes	No
8. Passive arming	Yes	No
9. Current sensor	Yes	No
10. Immobiliser	Yes	No
11. Lock when ignition switch is ON	Yes	No
12. Prohibition of Disarm by VALET button	Yes	No
13. Warning of Additional and Shock sensor in Second Arm mode	Yes	No
14. Long lock	Yes	No
15. Additional channel for Window close	Yes	No
16. Prohibition of the Sound for Warning Zones	Yes	No
17. Pager signal for Warning Zones	Yes	No
18. Prohibition for chirp when arm and disarm	Yes	No
19. Prohibition siren sound (strong only)	Yes	No
20. Prohibition for long blinkers	Yes	No
21. Warning chirp sound	Yes	No

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